

**AGREEMENT BETWEEN BROWARD COUNTY AND CITY OF WILTON MANORS
FOR ANDREWS AVENUE AND NE 26TH STREET
INTERSECTION IMPROVEMENTS**

This agreement ("Agreement") between Broward County, a political subdivision of the State of Florida ("County"), and City of Wilton Manors, a municipal corporation organized and existing under the laws of the State of Florida ("City") (each a "Party" and collectively referred to as the "Parties"), is entered into and effective as of the date this Agreement is fully executed by the Parties ("Effective Date").

RECITALS

A. City requested County to perform intersection improvements to upgrade the existing traffic signal system and add pedestrian crosswalks at the intersection of Andrews Avenue and NE 26th Street ("Project Intersection"), in City of Wilton Manors, Florida.

B. In accordance with County's obligations under the existing Traffic Engineering Agreement with City, County seeks to upgrade the existing traffic signal system and add pedestrian crosswalks at the Project Intersection.

C. To undertake and complete the intersection improvements, the City's water main needs to be relocated.

D. City seeks to include the City's water main relocation work as part of the overall project for intersection improvements to the Project Intersection.

E. City agrees to reimburse County for all construction related costs related to the City's water main relocation work.

F. County and City agree that it is of mutual benefit to include the intersection improvements and City's water main relocation under one project, and County agrees to manage and coordinate the project.

G. City has authorized the appropriate municipal officers to execute this Agreement.

NOW THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the Parties agree as follows:

ARTICLE 1 - DEFINITIONS AND IDENTIFICATIONS

The following definitions apply unless the context in which the word or phrase is used requires a different definition:

1.1 **Board** means the Board of County Commissioners of Broward County, Florida.

1.2 **City Work** means the relocation of the existing water main and associated water services along the west side of Andrews Avenue at the Project.

1.3 **Contract Administrator** means the Director of the Broward County Highway Construction and Engineering Division, or designee.

1.4 **County Administrator** means the administrative head of County, as appointed by the Board.

1.5 **County Attorney** means the chief legal counsel for County, as appointed by the Board.

1.6 **Project** means the intersection improvements to upgrade the existing traffic signal system and add pedestrian crosswalks at the intersection of Andrews Avenue and NE 26th Street, together with the City Work, as described in Article 2 and Exhibit A, attached hereto and incorporated herein.

ARTICLE 2 - SCOPE OF PARTICIPATION AND COSTS

2.1 County and City shall participate in the Project as set forth in this Agreement.

2.2 County shall have its consulting engineer for the Project prepare design plans and technical specifications for the construction of the City Work.

2.3 Upon County and City approval of the design plans and technical specifications prepared by County's consulting engineer for City Work, County shall incorporate such plans and specifications as part of the overall Project. The contract documents shall require the construction contractor to provide City with a one (1) year warranty for the City Work, protecting against defects in materials and workmanship.

2.4 City shall waive all City permit and inspection fees, including permit security requirements, related to the Project and associated City Work.

2.5 City shall act as applicant and sign permit applications required by non-City government agencies for the City Work.

2.6 County shall provide construction engineering inspections during construction.

2.7 City shall reimburse County for all construction related costs related to the City Work in the estimated amount not-to-exceed Fifty-Three Thousand Seven Hundred Eighty Dollars (\$53,780) ("Reimbursable Amount"), within thirty (30) days after receipt of an invoice substantiating the Reimbursable Amount. County may, at its discretion, submit invoices to City

for a portion of the Reimbursable Amount as the Project and City Work progresses, but no more often than monthly. City shall pay County within thirty (30) days after receipt of such an invoice.

2.8 County is undertaking the City Work for the benefit of City. Upon completion of the Project or City Work, as determined at the discretion of the Contract Administrator, City shall take possession and ownership of the City Work and be responsible for its continued maintenance. For purposes of this Agreement, the Project and associated City Work will be considered completed upon final inspection and acceptance by the Contract Administrator.

2.9 Upon completion of the Project and associated City Work, City will receive copies of all reports and documentation related to the City Work, including a set of signed and sealed certified as-built drawings, including electronic PDF and AUTOCAD files, and warranties for the City Work.

2.10 In the administration of this Agreement, as contrasted with matters of policy, all Parties may rely on the instructions or determinations made by the Contract Administrator; provided, however, that such instructions and determinations do not change the requirements of this Article 2.

ARTICLE 3 - TERM AND TERMINATION

3.1 The term of this Agreement shall begin on the Effective Date and shall end upon completion of the Project, unless otherwise terminated as provided in this Agreement.

3.2 This Agreement may be terminated for cause by the aggrieved Party if the Party in breach has not corrected the breach within ten (10) days after receipt of written notice identifying the breach. This Agreement may also be terminated for convenience by the Board. Termination for convenience by the Board shall be effective on the termination date stated in written notice provided by County, which termination date shall be not less than thirty (30) days after the date of such written notice. This Agreement may also be terminated by the County Administrator upon such notice as the County Administrator deems appropriate under the circumstances in the event the County Administrator determines that termination is necessary to protect the public health or safety. If County erroneously, improperly, or unjustifiably terminates for cause, such termination shall, at County's sole election, be deemed a termination for convenience, which shall be effective thirty (30) days after such notice of termination for cause is provided.

3.3 Notice of termination shall be provided in accordance with Article 4 of this Agreement, except that notice of termination by the County Administrator, pursuant to Section 3.2 of this Agreement, may be verbal notice that shall be promptly confirmed in writing in accordance with Article 4 of this Agreement.

ARTICLE 4 - NOTICES

Unless otherwise stated herein, for notice to a Party to be effective under this Agreement, notice must be sent via U.S. first-class mail, hand delivery, or commercial overnight delivery, each with a contemporaneous copy via email, to the addresses listed below and shall be effective upon mailing or hand delivery (provided the contemporaneous email is also sent). Addresses may be changed by the applicable Party giving notice of such change in accordance with this article.

FOR COUNTY:

Director, Broward County Highway Construction and Engineering Division
1 North University Drive
Box B300
Plantation, FL 33324
Email address: rtornese@broward.org

FOR CITY:

City Manager, City of Wilton Manors
2020 Wilton Drive
Wilton Manors, FL 33305
Email address: lhenderson@wiltonmanors.com

ARTICLE 5 - INDEMNIFICATION

5.1 County and City are entities subject to Section 768.28, Florida Statutes, as may be amended from time to time, and agree to be fully responsible for the negligent or wrongful acts and omissions of their respective agents or employees to the extent permitted by law. Nothing herein is intended to serve as a waiver of sovereign immunity by any party to which sovereign immunity may be applicable. Nothing herein shall be construed as consent by either party to be sued by third parties in any matter arising out of this Agreement or any other contract.

5.2 If County contracts with a third party to perform any of County's obligations under this Agreement, County shall enter into a contract with such third party, which contract shall include the following provision:

Indemnification: To the extent permitted by law, contractor shall indemnify, defend, save and hold harmless the City and all of its officers, agents or employees from all suits, actions, claims, demands, liability of any nature whatsoever arising out of, because of, or due to any negligent act or occurrence of omission or commission of the contractor. These indemnifications shall survive the expiration or earlier termination of this contract.

5.3 The obligations of this article shall survive the expiration or earlier termination of this Agreement.

ARTICLE 6 - INSURANCE

6.1 County and City are entities subject to Section 768.28, Florida Statutes, as may be amended from time to time, and each shall furnish the other with written verification of liability protection in accordance with state law prior to final execution of this Agreement.

6.2 If County contracts with one or more third parties to perform any of County's obligations set forth herein, County shall require that each third party procure and maintain insurance coverage that adequately covers the third party's exposure based on the services provided by that third party (and any subcontractors retained by the third party). County must ensure that all such third parties name "City of Wilton Manors, Florida" as an additional insured and certificate holder under the applicable insurance policies. County shall not permit any third party to provide services required by this Agreement until the insurance requirements of the third party under this section are met. If requested by City, County shall furnish evidence of all insurance required by this section.

ARTICLE 7 - MISCELLANEOUS

7.1 Rights in Documents. Copies of any and all reports, photographs, surveys, plans, as-built drawings, and other data and documents provided or created in connection with this Agreement are and shall remain the property of County.

7.2 Third-Party Beneficiaries. Neither County nor City intends to directly or substantially benefit a third party by this Agreement. Therefore, the Parties acknowledge that there are no third-party beneficiaries to this Agreement and that no third party shall be entitled to assert a right or claim against either of them based upon this Agreement.

7.3 Assignment. Neither this Agreement nor any right or interest herein may be assigned, transferred, or encumbered by County or City without the prior written consent of the other Party. If County or City violate this provision, the other Party shall have the right to immediately terminate this Agreement.

7.4 Materiality and Waiver of Breach. Each requirement, duty, and obligation set forth in this Agreement was bargained for at arm's-length and is agreed to by the Parties. Each requirement, duty, and obligation set forth in this Agreement is substantial and important to the formation of this Agreement, and each is, therefore, a material term. County's or City's failure to enforce any provision of this Agreement shall not be deemed a waiver of such provision or modification of this Agreement. A waiver of any breach shall not be deemed a waiver of any subsequent breach and shall not be construed to be a modification of this Agreement. To be effective, any waiver must be in writing signed by an authorized signatory of the Party granting the waiver.

7.5 Compliance with Laws. County and City shall comply with all applicable federal, state, and local laws, codes, ordinances, rules, and regulations in performing its duties, responsibilities, and obligations pursuant to this Agreement.

7.6 Severability. If any part of this Agreement is found to be unenforceable by any court of competent jurisdiction, that part shall be deemed severed from this Agreement and the balance of this Agreement shall remain in full force and effect.

7.7 Joint Preparation. This Agreement has been jointly prepared by the Parties and shall not be construed more strictly against either Party.

7.8 Interpretation. The titles and headings contained in this Agreement are for reference purposes only and shall not in any way affect the meaning or interpretation of this Agreement. All personal pronouns used in this Agreement shall include the other gender, and the singular shall include the plural, and vice versa, unless the context otherwise requires. Terms such as "herein," "hereof," "hereunder," and "hereinafter" refer to this Agreement as a whole and not to any particular sentence, paragraph, or section where they appear, unless the context otherwise requires. Whenever reference is made to a section or article of this Agreement, such reference is to the section or article as a whole, including all subsections thereof, unless the reference is made to a particular subsection or subparagraph of such section or article. Any reference to "days" means calendar days, unless otherwise expressly stated.

7.9 Priority of Provisions. If there is a conflict or inconsistency between any term, statement, requirement, or provision of any document or exhibit attached to, referenced by, or incorporated in this Agreement and any provision of Articles 1 through 7 of this Agreement, the provisions contained in Articles 1 through 7 shall prevail and be given effect.

7.10 Law, Jurisdiction, Venue, Waiver of Jury Trial. This Agreement shall be interpreted and construed in accordance with and governed by the laws of the State of Florida. The exclusive venue for any lawsuit arising from, related to, or in connection with this Agreement shall be in the state courts of the Seventeenth Judicial Circuit in and for Broward County, Florida. If any claim arising from, related to, or in connection with this Agreement must be litigated in federal court, the exclusive venue for any such lawsuit shall be in the United States District Court or United States Bankruptcy Court for the Southern District of Florida. **EACH PARTY HEREBY EXPRESSLY WAIVES ANY RIGHTS IT MAY HAVE TO A TRIAL BY JURY OF ANY CIVIL LITIGATION RELATED TO THIS AGREEMENT. IF A PARTY FAILS TO WITHDRAW A DEMAND FOR A JURY TRIAL AFTER WRITTEN NOTICE BY THE OTHER PARTY, THE PARTY MAKING THE DEMAND FOR JURY TRIAL SHALL BE LIABLE FOR REASONABLE ATTORNEYS' FEES AND COSTS OF THE OTHER PARTY TO CONTEST THE DEMAND FOR JURY TRIAL, AND SUCH AMOUNTS SHALL BE AWARDED BY THE COURT IN ADJUDICATING THE MOTION.**

7.11 Amendments. Unless expressly authorized herein, no modification, amendment, or alteration of any portion of this Agreement is effective unless contained in a written document

executed with the same or similar formality as this Agreement and by duly authorized representatives of the County and City.

7.12 Prior Agreements. This Agreement represents the final and complete understanding of the Parties regarding the subject matter of this Agreement and supersedes all prior and contemporaneous negotiations and discussions regarding same. All commitments, agreements, and understandings of the Parties concerning the subject matter of this Agreement are contained herein.

7.13 Incorporation by Reference. Any and all Recital clauses stated above are true and correct and are incorporated in this Agreement by reference. The attached Exhibit A is incorporated into and made a part of this Agreement.

7.14 Representation of Authority. Each individual executing this Agreement on behalf of a Party represents and warrants that he or she is, on the date he or she signs this Agreement, duly authorized by all necessary and appropriate action to execute this Agreement on behalf of such Party and does so with full legal authority.

7.15 Counterparts and Multiple Originals. This Agreement may be executed in multiple originals, and may be executed in counterparts, whether signed physically or electronically, each of which shall be deemed to be an original, but all of which, taken together, shall constitute one and the same agreement.

7.16 Nondiscrimination. No Party to this Agreement may discriminate on the basis of race, color, sex, religion, national origin, disability, age, marital status, political affiliation, sexual orientation, pregnancy, or gender identity and expression in the performance of this Agreement.

(The remainder of this page is intentionally left blank.)

IN WITNESS WHEREOF, the Parties hereto have made and executed this Agreement:
Broward County, through its Board of County Commissioners, signing by and through its Mayor
or Vice Mayor, authorized to execute same by Board action on the ____ day of
_____, 2022, and City of Wilton Manors, signing by and through its
Mayor _____, duly authorized to execute same.

County

ATTEST:

BROWARD COUNTY, by and through
its Board of County Commissioners

Broward County Administrator, as
ex officio Clerk of the Broward County
Board of County Commissioners

By _____
Mayor/Vice-Mayor

____ day of _____, 20__

Approved as to form by
Andrew J. Meyers
Broward County Attorney
115 South Andrews Avenue, Suite 423
Fort Lauderdale, Florida 33301
Telephone: (954) 357-7600

By Al A DiCalvo Digitally signed by Al A DiCalvo
Date: 2022.11.15 11:31:28 -05'00'
Al A DiCalvo (Date)
Senior Assistant County Attorney

By MICHAEL KERR Digitally signed by MICHAEL KERR
Date: 2022.11.15 12:35 -05'00'
Michael J. Kerr (Date)
Deputy County Attorney

D
WiltonManors JPA-WMRelo-AndrewsAv&NE26St_v5Final-2022-0928
/28/22

AGREEMENT BETWEEN BROWARD COUNTY AND CITY OF WILTON MANORS FOR ANDREWS
AVENUE AND NE 26TH STREET INTERSECTION IMPROVEMENTS

City

ATTEST:



City Clerk

Faith Lombardo
(Print Name)

(SEAL)

CITY OF WILTON MANORS

By 

Mayor-Commissioner

Scott Newton
(Print Name)

12 day of October, 20 22



City Manager

Leigh Ann Henderson
(Print Name)

I HEREBY CERTIFY that I have approved this
Agreement as to form and legal sufficiency
subject to execution by the parties:

By /s/ Kenny L. Sygal

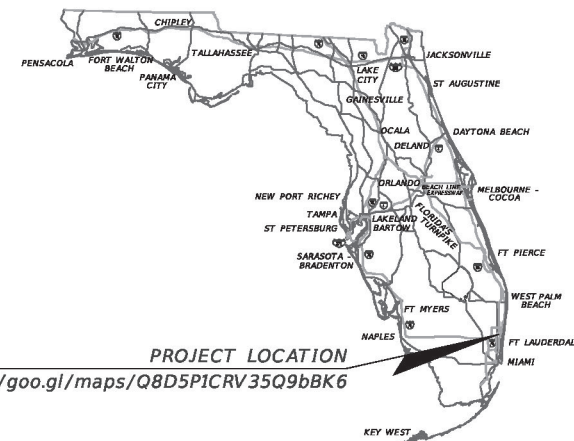
City Attorney

EXHIBIT A

See attached Contract Plans for Project Intersection improvements, including details of City Work.

PUBLIC WORKS DEPARTMENT
HIGHWAY CONSTRUCTION & ENGINEERING DIVISION

CONTRACT PLANS



PROJECT LOCATION
<https://goo.gl/maps/Q8D5PICRV35Q9bBK6>

INDEX OF SIGNALIZATION PLANS

SHEET NO.	SHEET DESCRIPTION
T-1	KEY SHEET
T-2	SIGNATURE SHEET
T-3 - T-4	TABULATION OF QUANTITIES
T-5 - T-6	GENERAL NOTES
T-7	PAY ITEM NOTES
T-8	TRAFFIC CONTROL NOTES
T-9 - T-12	ROADWAY PLAN
T-13	SIGNING & PAVEMENT MARKING PLAN
T-14 - T-17	SIGNALIZATION PLAN
T-18	UTILITY ADJUSTMENT SHEET
T-19	GUIDE SIGN WORKSHEET
T-20	MAST ARM TABULATION
T-21	STANDARD MAST ARM ASSEMBLIES DATA TABLE
T-22	BROWARD COUNTY MAST ARM ASSEMBLIES DATA TABLE
T-23 - T-25	MAST ARM RETROFIT
T-26	REPORT OF CORE BORINGS
T-27	SUMMARY OF VERIFIED UTILITIES
T-28	TOPOGRAPHIC SURVEY DATA
T-29	DRILLED SHAFT FOUNDATION AND CABINET DETAILS (*)
T-30	POWER SERVICE DETAILS (*)
T-31	PAVEMENT MARKINGS AND SIGNS DETAILS (*)
T-32	GROUND SIGN ASSEMBLY DETAILS (*)
T-33	PEDESTRIAN SIGNAL AND DETECTOR INSTALLATION DETAILS (*)
T-34	TYPICAL SIGNAL PULL BOX AND CONDUIT DETAILS (*)
50300-B994	STEEL TRAFFIC POLES FOR HORIZONTAL SIGNALS - FDOT (TYPE 1) BROWARD COUNTY (*)

* BY OTHERS, FOR INFORMATION ONLY

GOVERNING STANDARDS AND SPECIFICATIONS:

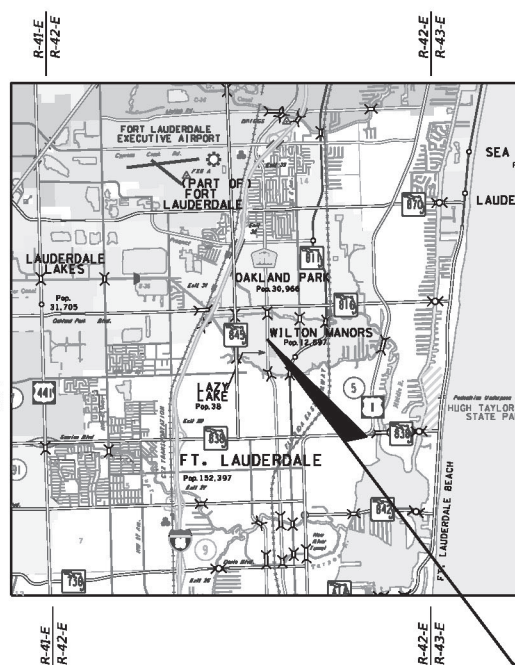
All MOT and construction work performed in Broward County Right of Way shall be in accordance with the governing standards and specifications: Exhibit 25A, Broward County administrative code, Florida Department of Transportation 2020-2021 Standard Plans, and Standard Specifications for Road and Bridge Construction dated July 2020, as amended in the contract documents.

For Standard Plans click on the "Standard Plans" link at the following web site:
<http://www.fdot.gov/design/standardplans/>

For the Standard Specifications for Road and Bridge Construction click on the "Specifications" link at the following web site:
<http://www.fdot.gov/programmanagement/implemented/specbooks>

BROWARD COUNTY PROJECT NO. 2164

**ANDREWS AVENUE AND NE 26TH STREET
INTERSECTION IMPROVEMENTS**



LOCATION OF PROJECT

SIGNALIZATION SHOP DRAWINGS
TO BE SUBMITTED TO:

JOSHUA REICHERT, P.E.
METRIC ENGINEERING, INC.
11760 MARCO BEACH DRIVE, SUITE 1
JACKSONVILLE, FL 32224

PLANS PREPARED BY:

METRIC ENGINEERING, INC.
525 TECHNOLOGY PARK, SUITE 153
LAKE MARY, FLORIDA 32746
TEL (407) 644-1898
FAX (407) 644-2376
VENDOR NO. F-59-1685550

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

SIGNING & PAVEMENT MARKING
AND SIGNALIZATION
ENGINEER OF RECORD: JOSHUA REICHERT, P.E.

P.E. NO.: 77036

REVISIONS:

1. BROWARD COUNTY PROJECT NO. 2134
Signals Sheet T-1, T-2A & T-18 (Revised 8/9/2021)
2. BROWARD COUNTY PROJECT NO. 2134
Signals Sheet T-1, T-2B, T-3, T-4, T-14, T-15 & T-16 (Revised 9/15/2021)

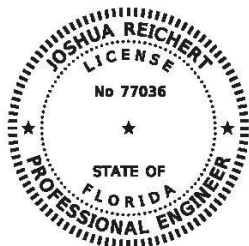
BROWARD COUNTY PROJECT MANAGER: ESTEBAN ESPINAL, P.E.

KEY SHEET REVISIONS	
DATE	DESCRIPTION
8/9/2021	Added Sheet Number T-2A
9/15/2021	Added Sheet Number T-2B

ROADWAY
ENGINEER OF RECORD: C. BRIAN FULLER, P.E.

P.E. NO.: 49524

FISCAL YEAR	SHEET NO.
20	T-1



THIS ITEM HAS BEEN DIGITALLY
SIGNED AND SEALED BY:

Joshua Reichert
Digitally signed by
Joshua Reichert
Date: 2021.02.28
12:30:20 -05'00'

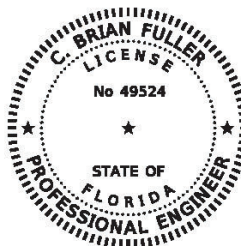
ON THE DATE ADJACENT TO THE SEAL

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METRIC ENGINEERING, INC.
11760 MARCO BEACH DR - SUITE 1
JACKSONVILLE, FLORIDA 32224
JOSHUA REICHERT, P.E. NO. 77036

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

SHEET NO.	SHEET DESCRIPTION
T-1	KEY SHEET
T-2	SIGNATURE SHEET
T-3 - T-4	TABULATION OF QUANTITIES
T-5 - T-6	GENERAL NOTES
T-7	PAY ITEM NOTES
T-8	TRAFFIC CONTROL NOTES
T-13	SIGNING & PAVEMENT MARKING PLAN
T-14 - T-17	SIGNALIZATION PLAN
T-19	GUIDE SIGN WORKSHEET
T-20	MAST ARM TABULATION
T-27	SUMMARY OF VERIFIED UTILITIES



THIS ITEM HAS BEEN DIGITALLY
SIGNED AND SEALED BY:

Charles B Fuller
Digitally signed by
Charles B Fuller
Date: 2021.03.01
11:21:57 -05'00'

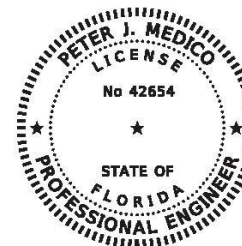
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METRIC ENGINEERING, INC.
525 TECHNOLOGY PARK - SUITE 153
LAKE MARY, FLORIDA 32746
C. BRIAN FULLER, P.E. NO. 49524

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SHEET NO.	SHEET DESCRIPTION
T-2	SIGNATURE SHEET
T-9 - T-12	ROADWAY PLAN



THIS ITEM HAS BEEN DIGITALLY
SIGNED AND SEALED BY:

Peter Medico
Digitally signed by Peter
Medico
Date: 2021.02.28 11:18:10
-05'00'

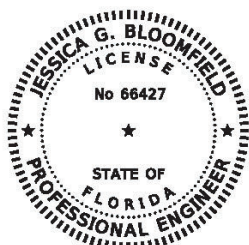
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METRIC ENGINEERING, INC.
525 TECHNOLOGY PARK - SUITE 153
LAKE MARY, FLORIDA 32746
PETER J. MEDICO, P.E. NO. 42654

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

SHEET NO.	SHEET DESCRIPTION
T-2	SIGNATURE SHEET
T-21	STANDARD MAST ARM ASSEMBLIES DATA TABLE
T-22	BROWARD COUNTY MAST ARM ASSEMBLIES DATA TABLE
T-23 - T-25	MAST ARM RETROFIT



THIS ITEM HAS BEEN DIGITALLY
SIGNED AND SEALED BY:

Jessica G Bloomfield
2021.02.26
20:32:11 -06'00'

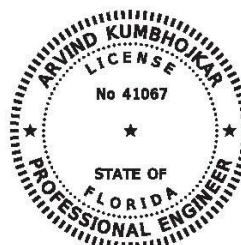
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METRIC ENGINEERING, INC.
13405 PANAMA CITY BEACH PARKWAY - SUITE E
PANAMA CITY BEACH, FLORIDA 32407
JESSICA G. BLOOMFIELD, P.E. NO. 66427

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

SHEET NO.	SHEET DESCRIPTION
T-2	SIGNATURE SHEET
T-18	UTILITY ADJUSTMENT SHEET



THIS ITEM HAS BEEN DIGITALLY
SIGNED AND SEALED BY:

Arvind S Kumbhojkar
Digitally signed by Arvind S
Kumbhojkar
DN: cn=US, o=Unaffiliated,
ou=401427E0000016997957D460
0001425, cn=Arvind S Kumbhojkar
Date: 2021.03.01 11:05:01 -05'00'

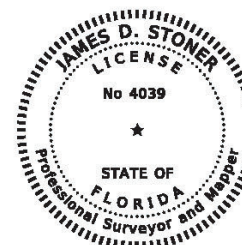
ON THE DATE ADJACENT TO THE SEAL

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HP CONSULTANTS INC.
10220 SW 107 STREET
MIAMI, FLORIDA 33176
ARVIND KUMBHOJKAR, PH.D, P.E. NO. 41067

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

SHEET NO.	SHEET DESCRIPTION
T-2	SIGNATURE SHEET
T-26	REPORT OF CORE BORINGS



THIS ITEM HAS BEEN DIGITALLY
SIGNED AND SEALED BY:

James D. Stoner, PSM
Digitally signed by James D.
Stoner, PSM
James D. Stoner
2021.03.01 09:51:37 -05'00'

ON THE DATE ADJACENT TO THE SEAL

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

STONER & ASSOCIATES, INC
4341 SW 62ND AVENUE
DAVIE, FLORIDA 33314
JAMES D. STONER, P.S.M. NO. 4039

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

SHEET NO.	SHEET DESCRIPTION
T-2	SIGNATURE SHEET
T-28	TOPOGRAPHIC SURVEY DATA

REVISIONS	
DATE	DESCRIPTION

JOSHUA REICHERT, P.E.
P.E. LICENSE NUMBER 77036
METRIC ENGINEERING, INC.
11760 MARCO BEACH DRIVE, SUITE 1
JACKSONVILLE, FLORIDA 32224

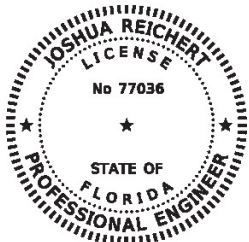


2/26/2021 5:23:50 PM Default

PUBLIC WORKS DEPARTMENT HIGHWAY CONSTRUCTION AND ENGINEERING DIVISION		
CITY	INTERSECTION	COUNTY PROJECT NO.
WILTON MANORS	ANDREWS AVE AND NE 26TH ST	2164

SIGNATURE SHEET

SHEET
NO.
T-2



THIS ITEM HAS BEEN DIGITALLY
SIGNED AND SEALED BY:

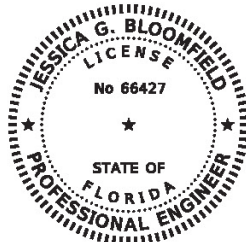
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METRIC ENGINEERING, INC.
11760 MARCO BEACH DR - SUITE 1
JACKSONVILLE, FLORIDA 32224
JOSHUA REICHERT, P.E. NO. 77036

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

<u>SHEET NO.</u>	<u>SHEET DESCRIPTION</u>
T-1	KEY SHEET
T-2A	SIGNATURE SHEET



THIS ITEM HAS BEEN DIGITALLY
SIGNED AND SEALED BY:



ON THE DATE ADJACENT TO THE SEAL

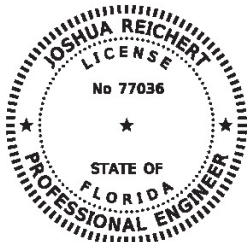
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METRIC ENGINEERING, INC.
13405 PANAMA CITY BEACH PARKWAY - SUITE E
PANAMA CITY BEACH, FLORIDA 32407
JESSICA G. BLOOMFIELD, P.E. NO. 66427

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

<u>SHEET NO.</u>	<u>SHEET DESCRIPTION</u>
T-2A	SIGNATURE SHEET
T-18	UTILITY ADJUSTMENT SHEET

REVISIONS		JOSHUA REICHERT, P.E. P.E. LICENSE NUMBER 77036 METRIC ENGINEERING, INC. 11760 MARCO BEACH DRIVE, SUITE 1 JACKSONVILLE, FLORIDA 32224		PUBLIC WORKS DEPARTMENT HIGHWAY CONSTRUCTION AND ENGINEERING DIVISION			SIGNATURE SHEET	SHEET NO. 
DATE	DESCRIPTION			CITY	INTERSECTION	COUNTY PROJECT NO.		
8/9/2021	ADDED SHEET			WILTON MANORS	ANDREWS AVE AND NE 26TH ST	2164		



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JACKSONVILLE, FLORIDA 32224
JOSHUA REICHERT, P.E. NO. 77036

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FOLLOWING SHEETS IN ACCORDANCE WITH RULE 61G15-23.004, F.A.C.

<u>SHEET NO.</u>	<u>SHEET DESCRIPTION</u>
T-1	KEY SHEET
T-2B	SIGNATURE SHEET
T-3 - T-4	TABULATION OF QUANTITIES
T-14 - T-16	SIGNALIZATION PLAN

REVISIONS		JOSHUA REICHERT, P.E. P.E. LICENSE NUMBER 77036 METRIC ENGINEERING, INC. 11760 MARCO BEACH DRIVE, SUITE 1 JACKSONVILLE, FLORIDA 32224		PUBLIC WORKS DEPARTMENT HIGHWAY CONSTRUCTION AND ENGINEERING DIVISION			SIGNATURE SHEET		SHEET NO. T-2B
DATE	DESCRIPTION			CITY	INTERSECTION	COUNTY PROJECT NO.			
9/15/2021	A. ADDED SHEET			WILTON MANORS	ANDREWS AVE AND NE 26TH ST	2164			

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TABULATION OF QUANTITIES

PAY ITEM NO.	DESCRIPTION	UNIT	SHEET NUMBERS												TOTAL THIS SHEET		GRAND TOTAL	
			T-9		T-11		T-13		T-14		T-15		T-16					
			PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL
101-1	MOBILIZATION	LS	1														1	
102-1	MAINTENANCE OF TRAFFIC	LS	1														1	
102-14	TRAFFIC CONTROL OFFICER	HR	48														48	
110-1-1	CLEARING & GRUBBING	LS	1														1	
110-4-10	REMOVAL OF EXISTING CONCRETE	SY	244	60													304	
327-70-1	MILLING EXIST ASPH PAVT, 1" AVG DEPTH	SY	1497														1497	
337-7-82	ASPHALT CONCRETE FRICTION COURSE,TRAFFIC C, FC-9.5, PG 76-22 (1")	TN	82.3														82.3	
520-1-10	CONCRETE CURB & GUTTER, TYPE F	LF	268	56													324	
520-2-2	CONCRETE CURB, TYPE B	LF	44														44	
522-2	CONCRETE SIDEWALK AND DRIVEWAYS, 6" THICK	SY	201	62													263	
527-2	DETECTABLE WARNINGS	SF	17	8													25	
570-1-2	PERFORMANCE TURF, 500	SY	52														52	
630-2-11	CONDUIT, FURNISH & INSTALL, OPEN TRENCH	LF								95				30			125	
630-2-12	CONDUIT, FURNISH & INSTALL, DIRECTIONAL BORE	LF						75		190							265	
632-7-1	SIGNAL CABLE- RECONSTRUCTED INTERSECTION, FURNISH & INSTALL	PI								1							1	
632-7-6	SIGNAL CABLE, REMOVE- INTERSECTION	PI						1									1	
633-1-121	FIBER OPTIC CABLE, F&I, UNDERGROUND, 2-12 FIBERS	LF								110							110	
633-1-620	FIBER OPTIC CABLE, REMOVE, UNDERGROUND	LF								70							70	
633-2-31	FIBER OPTIC CONNECTION, INSTALL, SPLICE	EA								4							4	
633-2-32	FIBER OPTIC CONNECTION, INSTALL, TERMINATION	EA								1							1	
633-3-12	FIBER OPTIC CONNECTION HARDWARE, F&I, SPLICE TRAY	EA								1							1	
633-3-16	FIBER OPTIC CONNECTION HARDWARE, F&I, PATCH PANEL- FIELD TERMINATED	EA								1							1	
633-3-51	FIBER OPTIC CONNECTION HARDWARE, ADJUST/MODIFY SPLICE ENCLOSURE	EA								1							1	
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24" COVER SIZE	EA								19							19	
635-2-12	PULL & SPLICE BOX, F&I, 24" x 36" COVER SIZE	EA								1							1	
639-2-1	ELECTRICAL SERVICE WIRE, FURNISH & INSTALL	LF								50							50	
639-3-11	ELECTRICAL SERVICE DISCONNECT, F&I, POLE MOUNT	EA								1							1	
641-2-12	PRESTRESSED CONCRETE POLE, F&I, TYPE P-11 SERVICE POLE	EA								1							1	
641-2-70	PRESTRESSED CONCRETE POLE, SHALLOW POLE REMOVAL- POLE 30' AND GREATER	EA						4									4	
643-140	STRAIN POLE, WOOD, FURNISH & INSTALL, 40'	EA						2									2	
643-600	STRAIN POLE, WOOD, REMOVE	EA											2				2	
646-1-11	ALUMINUM SIGNALS POLE, PEDESTAL	EA								2				1			3	
649-21-10	STEEL MAST ARM ASSEMBLY, FURNISH AND INSTALL, SINGLE ARM 60'	EA												1			1	
649-23-2	STEEL MAST ARM ASSEMBLY, INSTALL/RELOCATE TO NEW/CONTRACTOR PROVIDED FOUNDATION	EA								1							1	
649-33-000	MAST ARM, INSTALL	EA								1							1	
650-1-14	VEHICULAR TRAFFIC SIGNAL, FURNISH & INSTALL ALUMINUM, 3 SECTION, 1 WAY	AS						6					2				8	
650-1-18	VEHICULAR TRAFFIC SIGNAL, FURNISH & INSTALL ALUMINUM, 5 SECTION STRAIGHT, 1 WAY	AS						1									1	
650-1-60	VEHICULAR TRAFFIC SIGNAL, REMOVE- POLES TO REMAIN	EA											1				1	
653-1-11	PEDESTRIAN SIGNAL, FURNISH & INSTALL LED COUNTDOWN, 1 WAY	AS								1				1			2	
653-1-12	PEDESTRIAN SIGNAL, FURNISH & INSTALL LED COUNTDOWN, 2 WAYS	AS								1							1	
660-4-11	VEHICLE DETECTION SYSTEM- VIDEO, FURNISH & INSTALL CABINET EQUIPMENT	EA								1							1	
660-4-12	VEHICLE DETECTION SYSTEM- VIDEO, FURNISH & INSTALL ABOVE GROUND EQUIPMENT	EA						3									3	
660-4-42	VEHICLE DETECTION SYSTEM- VIDEO, RELOCATE ABOVE GROUND EQUIPMENT	EA											1				1	
665-1-12	PEDESTRIAN DETECTOR, FURNISH & INSTALL, ACCESSIBLE	EA								3				1			4	
670-5-141	TRAFFIC CONTROLLER ASSEMBLY, FURNISH & INSTALL MODEL 2070, 1 PREEMPTION	AS								1							1	
670-5-600	TRAFFIC CONTROLLER ASSEMBLY, REMOVE CONTROLLER WITH CABINET	AS						1									1	
684-1-1	MANAGED FIELD ETHERNET SWITCH, FURNISH & INSTALL	EA								1							1	
684-6-11	WIRELESS COMMUNICATION DEVICE, FURNISH & INSTALL ETHERNET ACCESS POINT	EA								1							1	
700-1-11	SINGLE POST SIGN, F&I GROUND MOUNT, UP TO 12 SF	AS						1									1	
700-1-50	SINGLE POST SIGN, RELOCATE	AS						1									1	
700-1-60	SINGLE POST SIGN, REMOVE	AS						1									1	
700-3-201	SIGN PANEL, FURNISH & INSTALL OVERHEAD MOUNT, UP TO 12 SF	EA								1							1	
700-5-22	INTERNALLY ILLUMINATED SIGN, FURNISH & INSTALL, OVERHEAD MOUNT, 12-18 SF	EA								2				1			3	
704-1-2	TUBULAR MARKER, DURABLE, 36" YELLOW POST	EA															3	
706-1-1	RAISED PAVEMENT MARKER, TYPE B WITHOUT FINAL SURFACE MARKINGS	EA															79	
710-11-101	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID, 6"	GM								0.117							0.117	
710-11-123	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID FOR CROSSWALK AND ROUNDABOUT, 12"	LF															214	
710-11-125	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID FOR STOP LINE, 24"	LF															79	
710-11-131	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SKIP, 10-30 OR 3-9 SKIP, 6" WIDE	GM															0.018	
710-11-170	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, ARROWS	EA															4	
710-11-201	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, SOLID, 6"	GM								0.089							0.089	
710-11-224	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, SOLID FOR DIAGONAL OR CHEVRON, 18"	LF															31	
710-11-290	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, ISLAND NOSE	SF															11	
711-11-125	THERMOPLASTIC, STANDARD, WHITE, SOLID, 24" FOR STOP LINE	LF															79	
711-11-224	THERMOPLASTIC, STANDARD, YELLOW, SOLID, 18" FOR DIAGONAL OR CHEVRON	LF															31	
711-14-123	THERMOPLASTIC, PREFORMED, WHITE, SOLID, 12" FOR CROSSWALK	LF															214	
711-14-170	THERMOPLASTIC, PREFORMED, WHITE, ARROW	EA															4	
711-16-101	THERMOPLASTIC, STANDARD-OTHER SURFACES, WHITE, SOLID, 6"	GM															0.117	
711-16-131	THERMOPLASTIC, STANDARD-OTHER SURFACES, WHITE, SKIP, 6", 10-30 SKIP OR 3-9 LANE DROP	GM															0.018	
711-16-201	THERMOPLASTIC, STANDARD-OTHER SURFACES, YELLOW, SOLID, 6"	GM															0.089	
1050-16-003	UTILITY PIPE, REMOVE & DISPOSE, 5-7.9"	LF																
1050-31-206	UTILITY PIPE- POLY VINYL CHLORIDE, FURNISH & INSTALL, WATER/SEWER, 6"	LF																
1080-21-106	UTILITY FIXTURE, VALVE/METER BOX, FURNISH & INSTALL, 6"	EA																
1080-24-106	UTILITY FIXTURE, VALVE ASSEMBLY, FURNISH AND INSTALL, 6"	EA																

REVISIONS		JOSHUA REICHERT, P.E. P.E. LICENSE NUMBER 77036 METRIC ENGINEERING, INC. 11760 MARCO BEACH DRIVE, SUITE 1 JACKSONVILLE, FLORIDA 32224	BROWARD COUNTY FLORIDA	PUBLIC WORKS DEPARTMENT HIGHWAY CONSTRUCTION AND ENGINEERING DIVISION			SHEET NO.
DATE	DESCRIPTION			CITY	INTERSECTION	COUNTY PROJECT NO.	
9/15/2021	ADDED AND REMOVED QUANTITIES			WILTON MANORS	ANDREWS AVE AND NE 26TH ST	2164	T-3

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TABULATION OF QUANTITIES

PAY ITEM NO.	DESCRIPTION	UNIT	SHEET NUMBERS														TOTAL THIS SHEET		GRAND TOTAL		
			T-18																		
			PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL			
101-1	MOBILIZATION	LS																		1	
102-1	MAINTENANCE OF TRAFFIC	LS																		1	
102-14	TRAFFIC CONTROL OFFICER	HR																		48	
110-1-1	CLEARING & GRUBBING	LS																		1	
110-4-10	REMOVAL OF EXISTING CONCRETE	SY																		304	
327-70-1	MILLING EXIST ASPH PAVT, 1" AVG DEPTH	SY																		1497	
337-7-82	ASPHALT CONCRETE FRICTION COURSE,TRAFFIC C, FC-9.5, PG 76-22 (1")	TN																		82.3	
520-1-10	CONCRETE CURB & GUTTER, TYPE F	LF																		324	
520-2-2	CONCRETE CURB, TYPE B	LF																		44	
522-2	CONCRETE SIDEWALK AND DRIVEWAYS, 6" THICK	SY																		263	
527-2	DETECTABLE WARNINGS	SF																		25	
570-1-2	PERFORMANCE TURF, 500	SY																		52	
630-2-11	CONDUIT, FURNISH & INSTALL, OPEN TRENCH	LF																		125	
630-2-12	CONDUIT, FURNISH & INSTALL, DIRECTIONAL BORE	LF																		265	
632-7-1	SIGNAL CABLE- RECONSTRUCTED INTERSECTION, FURNISH & INSTALL	PI																		1	
632-7-6	SIGNAL CABLE, REMOVE- INTERSECTION	PI																		1	
633-1-121	FIBER OPTIC CABLE, F&I, UNDERGROUND, 2-12 FIBERS	LF																		110	
633-1-620	FIBER OPTIC CABLE, REMOVE, UNDERGROUND	LF																		70	
633-2-31	FIBER OPTIC CONNECTION, INSTALL, SPLICE	EA																		4	
633-2-32	FIBER OPTIC CONNECTION, INSTALL, TERMINATION	EA																		1	
633-3-12	FIBER OPTIC CONNECTION HARDWARE, F&I, SPLICE TRAY	EA																		1	
633-3-16	FIBER OPTIC CONNECTION HARDWARE, F&I, PATCH PANEL- FIELD TERMINATED	EA																		1	
633-3-51	FIBER OPTIC CONNECTION HARDWARE, ADJUST/MODIFY SPLICE ENCLOSURE	EA																		1	
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24" COVER SIZE	EA																		19	
635-2-12	PULL & SPLICE BOX, F&I, 24" x 36" COVER SIZE	EA																		1	
639-2-1	ELECTRICAL SERVICE WIRE, FURNISH & INSTALL	LF																		50	
639-3-11	ELECTRICAL SERVICE DISCONNECT, F&I, POLE MOUNT	EA																		1	
641-2-12	PRESTRESSED CONCRETE POLE, F&I, TYPE P-11 SERVICE POLE	EA																		1	
641-2-70	PRESTRESSED CONCRETE POLE, SHALLOW POLE REMOVAL- POLE 30' AND GREATER	EA																		4	
643-140	STRAIN POLE, WOOD, FURNISH & INSTALL, 40'	EA																		2	
643-600	STRAIN POLE, WOOD, REMOVE	EA																		2	
646-1-11	ALUMINUM SIGNALS POLE, PEDESTAL	EA																		3	
649-21-10	STEEL MAST ARM ASSEMBLY, FURNISH AND INSTALL, SINGLE ARM 60'	EA																		1	
649-23-2	STEEL MAST ARM ASSEMBLY, INSTALL/RELOCATE TO NEW/CONTRACTOR PROVIDED FOUNDATION	EA																		1	
649-33-000	MAST ARM, INSTALL	EA																		1	
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 STRAIGHT, 1 WAY	AS																		1	
650-1-60	VEHICULAR TRAFFIC SIGNAL, REMOVE- POLES TO REMAIN	EA																		1	
653-1-11	PEDESTRIAN SIGNAL, FURNISH & INSTALL LED COUNTDOWN, 1 WAY	AS																		2	
653-1-12	PEDESTRIAN SIGNAL, FURNISH & INSTALL LED COUNTDOWN, 2 WAYS	AS																		1	
660-4-11	VEHICLE DETECTION SYSTEM- VIDEO, FURNISH & INSTALL CABINET EQUIPMENT	EA																		1	
660-4-12	VEHICLE DETECTION SYSTEM- VIDEO, FURNISH & INSTALL ABOVE GROUND EQUIPMENT	EA																		1	
660-4-42	VEHICLE DETECTION SYSTEM- VIDEO, RELOCATE ABOVE GROUND EQUIPMENT	EA																		1	
665-1-12	PEDESTRIAN DETECTOR, FURNISH & INSTALL, ACCESSIBLE	EA																		4	
670-5-141	TRAFFIC CONTROLLER ASSEMBLY, FURNISH & INSTALL MODEL 2070, 1 PREEMPTION	AS																		1	
670-5-600	TRAFFIC CONTROLLER ASSEMBLY, REMOVE CONTROLLER WITH CABINET	AS																		1	
684-1-1	MANAGED FIELD ETHERNET SWITCH, FURNISH & INSTALL	EA																		1	
684-6-11	WIRELESS COMMUNICATION DEVICE, FURNISH & INSTALL ETHERNET ACCESS POINT	EA																		1	
700-1-11	SINGLE POST SIGN, F&I GROUND MOUNT, UP TO 12 SF	AS																		1	
700-1-50	SINGLE POST SIGN, RELOCATE	AS																		1	
700-1-60	SINGLE POST SIGN, REMOVE	AS																		1	
700-3-201	SIGN PANEL, FURNISH & INSTALL OVERHEAD MOUNT, UP TO 12 SF	EA																		1	
700-5-22	INTERNALLY ILLUMINATED SIGN, FURNISH & INSTALL, OVERHEAD MOUNT, 12-18 SF	EA																		3	
704-1-2	TUBULAR MARKER, DURABLE, 36" YELLOW POST	EA																		3	
706-1-1	RAISED PAVEMENT MARKER, TYPE B WITHOUT FINAL SURFACE MARKINGS	EA																		79	
710-11-101	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID, 6"	GM																		0.117	
710-11-123	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID FOR CROSSWALK AND ROUNDABOUT, 12"	LF																		214	
710-11-125	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID FOR STOP LINE, 24"	LF																		79	
710-11-131	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SKIP, 10-30 OR 3-9 SKIP, 6" WIDE	GM																		0.018	
710-11-170	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, ARROWS	EA																		4	
710-11-201	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, SOLID, 6"	GM																		0.089	
710-11-224	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, SOLID FOR DIAGONAL OR CHEVRON, 18"	LF																		31	
710-11-290	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, ISLAND NOSE	SF																		11	
711-11-125	THERMOPLASTIC, STANDARD, WHITE, SOLID, 24" FOR STOP LINE	LF																		79	
711-11-224	THERMOPLASTIC, STANDARD, YELLOW, SOLID, 18" FOR DIAGONAL OR CHEVRON	LF																		31	
711-14-123	THERMOPLASTIC, PREFORMED, WHITE, SOLID, 12" FOR CROSSWALK	LF																		214	
711-14-170	THERMOPLASTIC, PREFORMED, WHITE, ARROW	EA																		4	
711-16-101	THERMOPLASTIC, STANDARD-OTHER SURFACES, WHITE, SOLID, 6"	GM																		0.117	
711-16-131	THERMOPLASTIC, STANDARD-OTHER SURFACES, WHITE, SKIP, 6", 10-30 SKIP OR 3-9 LANE DROP	GM																		0.018	
711-16-201	THERMOPLASTIC, STANDARD-OTHER SURFACES, YELLOW, SOLID, 6"	GM																		0.018	
1050-16-003	UTILITY PIPE, REMOVE & DISPOSE, 5-7.9"	LF	153														153			153	
1050-31-206	UTILITY PIPE- POLY VINYL CHLORIDE, FURNISH & INSTALL, WATER/SEWER, 6"	LF	155														155			155	
1080-21-106	UTILITY FIXTURE, VALVE/METER BOX, FURNISH & INSTALL, 6"	EA	2														2			2	
1080-24-106	UTILITY FIXTURE, VALVE ASSEMBLY, FURNISH AND INSTALL, 6"	EA	2														2			2	

REVISIONS DATE DESCRIPTION 9/15/2021 A ADDED AND REMOVED QUANTITIES		JOSHUA REICHERT, P.E. P.E. LICENSE NUMBER 77036 METRIC ENGINEERING, INC. 11760 MARCO BEACH DRIVE, SUITE 1 JACKSONVILLE, FLORIDA 32224	BROWARD COUNTY FLORIDA	PUBLIC WORKS DEPARTMENT HIGHWAY CONSTRUCTION AND ENGINEERING DIVISION CITY INTERSECTION COUNTY PROJECT NO. WILTON MANORS ANDREWS AVE AND NE 26TH ST 2164	TABULATION OF QUANTITIES SHEET NO. T-4
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SURVEY

1. THERE MAY BE ADDITIONAL EASEMENTS, RIGHT-OF-WAY, OR OTHER RESTRICTIONS THAT ARE NOT SHOWN ON THIS SURVEY THAT MAY BE FOUND IN THE PUBLIC RECORDS OF BROWARD COUNTY.
2. THE CONTRACTOR SHALL CAREFULLY PROTECT FROM DISTURBANCE ALL SURVEY MONUMENTS, STAKES AND BENCH MARKS. ALL MAJOR SURVEY MONUMENTS THAT HAVE BEEN DAMAGED BY THE CONTRACTOR, INCLUDING SECTION CORNERS, 1/4 SECTION CORNERS, PROPERTY CORNERS OR BLOCK CONTROL POINTS SHALL BE REPLACED UNDER THE SUPERVISION OF A FLORIDA REGISTERED LAND SURVEYOR AND MAPPER AT THE CONTRACTOR'S EXPENSE WITH MARKERS OF A SIZE AND TYPE APPROVED BY THE SURVEYOR.
3. DATA SOURCES: HORIZONTAL DATUM - NAD83/11, VERTICAL DATUM - NAVD88.

UTILITIES

1. THE LOCATION OF THE UTILITIES SHOWN IN THE PLANS IS BASED ON LIMITED INVESTIGATION TECHNIQUES AND SHOULD BE CONSIDERED APPROXIMATE ONLY. THE EXACT LOCATION SHALL BE DETERMINED BY THE CONTRACTOR DURING CONSTRUCTION. UTILITIES SHALL REMAIN UNLESS OTHERWISE NOTED.
2. IT IS THE INTENT OF THESE PLANS THAT THE PROPOSED EQUIPMENT TO BE INSTALLED IS TO BE PLACED IN SUCH A MANNER SO AS 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 TIME FRAME. 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.
3. THE CONTRACTOR SHALL USE HAND EXCAVATION METHODS WHEN EXCAVATING NEAR EXISTING UTILITIES, OR WHERE HAND-DIGGING IS 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.
4. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE LOCATION AND PROTECTION, REPAIR AND/OR REPLACEMENT OF ALL UTILITIES THAT MAY BE AFFECTED BY THE CONSTRUCTION OF THIS PROJECT.
5. THE CONTRACTOR SHALL COORDINATE WITH FPL AND FIELD VERIFY LOCATION(S) OF FPL SERVICE POINT PRIOR TO INSTALLING CONDUIT, DISCONNECT, AND PULL BOXES.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING FPL TO DETERMINE IF A SERVICE PROCESSING FEE IS REQUIRED. IF REQUIRED, THE FEE SHALL BE REFLECTED IN THE CONTRACTORS BID UNIT PRICE FOR ELECTRICAL POWER SERVICE ASSEMBLY.
7. THE CONTRACTOR IS ADVISED THAT THE PRESENCE OF OVERHEAD ELECTRIC CONDUCTORS IN CLOSE PROXIMITY TO THE LOCATIONS OF 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.
8. THE CONTRACTOR IS TO COORDINATE WITH FPL FOR THE REMOVAL OF SPAN WIRE AND ANY FOREIGN ATTACHMENTS FROM JOINT USE POLE IN SOUTHWEST QUADRANT OF INTERSECTION. JOINT USE STRAIN POLE IS TO BE BRACED/SUPPORTED WITH FPL CREW DURING REMOVAL OPERATIONS. CONTRACTOR SHALL CONTACT FPL A MINIMUM OF 21 DAYS BEFORE BEGINNING CONSTRUCTION TO SCHEDULE BRACING OPERATIONS. IF A SERVICE PROCESSING FEE IS REQUIRED, THE FEE SHALL BE REFLECTED IN THE CONTRACTORS BID UNIT PRICE FOR ELECTRICAL POWER SERVICE ASSEMBLY.
9. THE CONTRACTOR SHALL NOTIFY UTILITY OWNERS THROUGH SUNSHINE ONE CALL OF FLORIDA INC. (1-800-432-4770) AND UTILITY 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 AGENCY OWNERS:

COMPANY	CONTACT	TELEPHONE #
AT&T FLORIDA DISTRIBUTION	DINO FARRUGGIO	(561) 997-0240
BROWARD COUNTY TRAFFIC ENGINEERING DIVISION	ROBERT BLOUNT	(954) 847-2745
CITY OF HALLANDALE BEACH	JEANINE ARTHIAS	(954) 457-3042
FLORIDA POWER & LIGHT	EDGAR AGUILAR	(386) 586-6403
TECO PEOPLES GAS	JOAN DOWNING	(813) 275-3783

GENERAL

1. UNLESS OTHERWISE NOTED IN THE TECHNICAL SPECIFICATIONS: INSTALLATION, ACCEPTANCE, AND PAYMENT FOR ALL ITEMS REQUIRED IN THESE PLANS SHALL BE IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING, REFERENCED IN THE KEY SHEET: MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (STANDARD SPECIFICATIONS), FDOT STANDARD PLANS FOR ROAD AND BRIDGE CONSTRUCTION, BROWARD COUNTY MINIMUM STANDARDS, BROWARD COUNTY TRAFFIC ENGINEERING DIVISION STANDARDS AND SPECIFICATIONS, AND ANY OR ALL BROWARD COUNTY TRAFFIC ENGINEERING DIVISION (BCTED) REQUIREMENTS THAT MEET OR EXCEED THOSE FOUND IN THE ABOVE REFERENCED DOCUMENTS.
2. SAW CUTTING OF THE EXISTING SIDEWALK SHALL BE MADE ONLY AT THE NEAREST FLAG JOINTS.
3. EXISTING DRAINAGE STRUCTURES WITHIN THE CONSTRUCTION LIMITS SHALL REMAIN, UNLESS OTHERWISE NOTED.
4. SPECIAL ATTENTION IS DIRECTED TO THE FACT THAT SOME DRAINAGE STRUCTURES EXTEND INTO THE STABILIZED PORTION OF THE ROAD BED AND EXTREME CAUTION WILL BE NECESSARY IN STABILIZATION OPERATIONS AT THOSE LOCATIONS.
5. THE REMOVAL OF CONCRETE CURB & GUTTER AND FLEXIBLE PAVEMENT IN AREAS BEYOND THE LIMITS OF CLEARING AND GRUBBING WHICH IS NECESSARY FOR THE PROPER CONSTRUCTION OF THE PROPOSED IMPROVEMENTS IS INCIDENTAL TO THE COST OF THE IMPROVEMENT.

6. 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 CONTRACTOR WITHIN OR ADJACENT TO PROJECT LIMITS.
7. NOTHING IN THE PROJECT NOTES OR SPECIAL PROVISIONS SHALL RELIEVE THE CONTRACTOR FROM THEIR RESPONSIBILITIES TOWARD THE SAFETY AND CONVENIENCE OF THE GENERAL PUBLIC AND THE RESIDENCES ALONG THE PROPOSED CONSTRUCTION AREA.
8. OFFSETS TO POLES, CABINETS AND PULL BOXES ARE TO THE CENTER OF THOSE ITEMS. THE LOCATION OF ALL PROPOSED EQUIPMENT TO BE 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.
9. THESE PLANS REFLECT CONDITIONS KNOWN DURING PLAN DEVELOPMENT. IN THE EVENT ACTUAL PHYSICAL CONDITIONS PREVENT THE 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.
10. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING EACH INTERSECTION CONSTRUCTION SITE IN A SAFE, NEAT, AND PRESENTABLE CONDITION; CLEAR OF ALL TEMPORARY STRUCTURES AND SURPLUS MATERIALS, RUBBISH, BROKEN CONCRETE, MISCELLANEOUS CONDUIT, REINFORCING STEEL, SHARP OBJECTS, ETC. AND LEAVE THE SITE IN AN UNOBSTRUCTED CONDITION EACH DAY SO PEDESTRIANS, BICYCLISTS, AND MOTORISTS ARE NOT ENDANGERED OR PRESENTED WITH CONDITIONS THAT COULD CAUSE THEM TO BECOME DISTRACTED OR CONFUSED. CONTRACTOR SHALL COMPLETELY REPLACE AND RESTORE EACH INTERSECTION SITE TO THE DESIGN CRITERIA PROFESSIONALS' SATISFACTION AND ALL SUCH DAILY CONSTRUCTION SITE MAINTENANCE SHALL BE INCLUDED IN THE TOTAL CONTRACT PRICE. THE CONTRACTOR SHALL DAILY BACKFILL ALL SIDEWALK DROP-OFFS AS SITE MAINTENANCE.
11. CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING ANY DISTURBED WORK AREA TO THE SAME, OR BETTER, CONDITION THAN AT THE START OF CONSTRUCTION. THE RESTORATION MATERIALS WILL BE OF LIKE KIND TO THE MATERIALS EXISTING AT THE START OF CONSTRUCTION. THE AREA SHALL BE RESTORED WITHIN 30 DAYS AFTER THE NEW TRAFFIC SIGNALIZATION SYSTEM IS OPERATIONAL PRIOR TO FINAL ACCEPTANCE OF THE INTERSECTION. SUCH PROPERTY RESTORATION SHALL INCLUDE, BUT IS NOT LIMITED TO LANDSCAPING, DRIVEWAYS, MAILBOXES, WALKWAYS, WALLS, PAVERS, CURBS, GUTTERS, SIDEWALKS, WALLS, SODDING, FENCES, FOOTINGS, PAVEMENT, LIGHTING, REMOVAL ITEMS, PAVEMENT MARKINGS, UNDERGROUND UTILITIES, DRAINAGE FACILITIES, AND TRAFFIC AND STREET SIGNS. IF THERE ARE ANY QUESTIONS OR DISCREPANCIES, THE PRE-CONSTRUCTION VIDEO WILL BE USED TO DETERMINE THE CONDITIONS AT THE START OF CONSTRUCTION. HOWEVER, AN EXISTING CONDITION DOES NOT ALLEVIATE THE RESPONSIBILITY OF THE CONTRACTOR TO REMEDY THE CONDITION IF THE WORK IS DETERMINED TO BE A PART OF THIS PROJECT.

STRUCTURES

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

INSPECTIONS

1. ALL FINAL INSPECTIONS ARE TO BE SCHEDULED IN ACCORDANCE WITH CONTRACT DOCUMENTS.
2. CONTRACTOR SHALL HAVE THE APPROVED SHOP DRAWINGS AVAILABLE ON THE PROJECT SITE.
3. ALL WORK WHICH WILL NOT BE READILY VISIBLE UPON COMPLETION SHALL NOT BE CONCEALED UNTIL AN APPROVED INSPECTION. IN THE EVENT THAT ITEMS ARE CONCEALED, IT WILL BE THE CONTRACTOR'S 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
 - SPICES BEFORE ENCAPSULATING
 - ALL MEG OHM AND CONTINUITY TESTING SHALL BE DONE IN THE PRESENCE OF THE COUNTY INSPECTOR
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 THREADED SURFACE) SHALL BE COATED WITH AN ANTI-SEIZE LUBRICANT APPROVED BY THE ENGINEER OF RECORD. NO SPRAY ON ANTI-SEIZE COMPOUND WILL BE ACCEPTED.
 - GASKETING SURFACES: ALL GASKET SURFACES SHALL BE LIGHTLY COATED WITH COUNTY APPROVED SILICONE GREASE.
 - ELECTRICAL CONNECTIONS: ALL MECHANICAL/ELECTRICAL CONNECTIONS SHALL HAVE THE VARIOUS COMPONENTS OF THE SPlice OR TERMINATION COATED WITH A COUNTY APPROVED OXIDE INHIBITOR.
 - WEATHERPROOFING: IRREGULAR MATING SURFACES SHALL BE RENDERED WEATHERPROOF BY APPLYING AN APPROPRIATE BEAD OF CLEAR SILICONE CAULK. THESE AREAS INCLUDE SERRATED SIGNAL COUPLINGS, CONTROLLER CABINET FOUNDATION, PEDESTRIAN PUSH 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. IN AN INSPECTION, THE CONTRACTOR SHALL PROVIDE ALL NECESSARY EQUIPMENT INCLUDING A TWO PERSON BUCKET TRUCK OR PLATFORM LIFT TRUCK FOR USE BY THE INSPECTOR AND MAINTENANCE STAFF.

REVISIONS

DATE	DESCRIPTION

JOSHUA REICHERT, P.E.
P.E. LICENSE NUMBER 77036
METRIC ENGINEERING, INC.
11760 MARCO BEACH DRIVE, SUITE 1
JACKSONVILLE, FLORIDA 32224



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PUBLIC WORKS DEPARTMENT
HIGHWAY CONSTRUCTION AND ENGINEERING DIVISION

CITY	INTERSECTION	COUNTY PROJECT NO.
WILTON MANORS	ANDREWS AVE AND NE 26TH ST	2164

GENERAL NOTES

SHEET
NO.

T-5

Joseph.martin

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

AS-BUILTS

1. THE CONTRACTOR SHALL PROVIDE SIX (6) SETS OF MARKED UP (AS-BUILT) CONSTRUCTION PLANS AND ONE CADD FILE OF SUCH TO THE ENGINEER, CITY OF HALLANDALE BEACH, AND MAINTAINING AGENCY AS DEFINED IN FDOT STANDARDS AND BRIDGE SPECIFICATIONS SECTION 611, SEVEN (7) DAYS PRIOR TO SIGNAL SUBSTANTIAL COMPLETION INSPECTION BY THE MAINTAINING AGENCY. THE CONTRACTOR SHALL BE REQUIRED TO BECOME FAMILIAR WITH BROWARD COUNTY TRAFFIC ENGINEERING DIVISION'S INSPECTION PROCEDURE.

2. THE CONTRACTOR SHALL SUBMIT A SKETCH TO THE ENGINEER FOR APPROVAL IF THE LOCATION OF ANY HORIZONTAL AND/OR VERTICAL PLACEMENT OF EQUIPMENT VARIES FROM THE DESIGNATED LOCATION OF THE PLAN.

SUBMITTALS

1. ALL SUBMITTAL DATA SHOULD BE SUBMITTED TO THE BROWARD COUNTY TRAFFIC ENGINEERING DIVISION, CARE OF SHARON GROSS AT THE OFFICE LISTED BELOW. THE CONTRACTOR SHALL ALLOW FOR 30 DAY TURN AROUND ON SUBMITTALS.

BROWARD COUNTY TRAFFIC ENGINEERING DIVISION
2300 W COMMERCIAL BLVD
FORT LAUDERDALE, FL 33309

2. PRIOR TO ANY EQUIPMENT ORDER, THE CONTRACTOR SHALL SUBMIT FOR APPROVAL EQUIPMENT SPECIFICATIONS, OR DESIGN DATA FOR ALL MATERIAL PROPOSED FOR THIS PROJECT.

INTERCONNECT NOTES:

1. ANY FIBER INTERCONNECT CABLE THAT IS CUT OR DAMAGED DURING CONSTRUCTION MUST BE REPLACED AS AN ENTIRE RUN AND SHALL BE RE-SPLICED WITHIN THE SPLICE CLOSURE AT THE END OF THE RUN. SPLICING OF FIBER INTERCONNECT CABLE BETWEEN SPLICE CLOSURES IS NOT PERMITTED. THE CONTRACTOR SHALL BEAR ALL THE EXPENSES ASSOCIATED WITH THE INSTALLATION OF THE NEW INTERCONNECT CABLE.

2. ANY MATERIAL FURNISHED FOR THE PURPOSES OF: NEW INSTALLATION, REPLACEMENT OR REPAIR OF THE EXISTING COMMUNICATIONS INFRASTRUCTURE SHALL MEET THE STANDARDS AND SPECIFICATIONS OF BROWARD COUNTY TRAFFIC ENGINEERING DIVISION (BCTED). ANY SUPPLIED CONTROLLER CABINET, CONTROLLER, TELEMETRY UNIT, COMMUNICATIONS CABLE, PULL BOX, CONDUIT, TERMINATION DEVICE, AND COMMUNICATIONS PATCH PANEL SHALL COMPLY WITH THE LATEST REQUIREMENTS AS STATED BY BCTED AND SHALL PROVIDE FOR FULL FUNCTIONALITY WITH THE EXISTING BCTED'S ATMS.NOW OPERATIONS.

BROWARD COUNTY TRAFFIC ENGINEERING DIVISION COMMUNICATIONS NOTES:

1. THE AGENCY RESPONSIBLE FOR MAINTENANCE OF THE TRAFFIC SIGNALS AND RELATED EQUIPMENT IS BROWARD COUNTY TRAFFIC ENGINEERING DIVISION (BCTED). ALL SYSTEM COMMUNICATIONS EQUIPMENT, CABLING AND RELATED MATERIALS SHALL COMPLY WITH BROWARD COUNTY'S LATEST EDITION OF THE MINIMUM STANDARDS AS EXPRESSED IN THE "STANDARDS AND SPECIFICATIONS COMMUNICATION INFRASTRUCTURE" DOCUMENT. PLEASE REFER TO (BCTED'S) COMMUNICATIONS POLICIES AND PROCEDURES FOR ADDITIONAL INFORMATION. BROWARD COUNTY TRAFFIC ENGINEERING DIVISION WILL NOT ACCEPT ANY PROJECTS THAT DO NOT MEET THESE STANDARDS AND SPECIFICATIONS. IF FIBER OPTIC PULL BOXES ALREADY EXIST AT AN INTERSECTION, NO ADDITIONAL FIBER OPTIC PULL BOXES WILL NEED TO BE INSTALLED. FOR A COPY OF THESE STANDARDS REFER TO THE BROWARD COUNTY WEB SITE AT <http://www.broward.org/Traffic/Pages/Publications.aspx>.

2. IF THERE ARE FIBER OPTIC CABLE(S) WITHIN YOUR PROJECT LIMITS OR WITHIN 1500 FEET OF YOUR PROJECT LIMITS, CONTACT THE COMMUNICATIONS MANAGER AT TECOMMUNICATIONS@BROWARD.ORG OR 954-847-2745.

3. IF THERE ARE CELLULAR COMMUNICATIONS WITHIN YOUR PROJECT LIMITS, CONTACT THE COMMUNICATIONS MANAGER AT TECOMMUNICATIONS@BROWARD.ORG OR 954-847-2745.

4. ALL BCTED COMMUNICATIONS CABLES/CONDUIT SHALL BE LOCATED A MINIMUM OF 48 HOURS IN ADVANCE.

BROWARD COUNTY TRAFFIC ENGINEERING DIVISION PROCEDURE FOR NOTIFICATION OF COMMUNICATION DISRUPTION:

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

SIGNAL GENERAL 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 CONTRACTOR'S 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.

2. APPROVAL OF SHOP DRAWINGS DOES NOT CONSTITUTE A WARRANTY THAT THE SIGNAL EQUIPMENT COMPLIES WITH THE STANDARDS OF THE MAINTAINING AGENCY. THE CONTRACTOR IS RESPONSIBLE FOR INSURING THAT THE PROPOSED SIGNAL EQUIPMENT MEETS THE REQUIREMENTS SPECIFIED IN THE CONTRACT, SPECIFICATIONS AND CONTRACT PLANS.

3. THE VIDEO DETECTION SYSTEM SHALL BE IN ACCORDANCE TO THE TECHNICAL SPECIFICATIONS INCLUDED IN THE "VEHICLE DETECTION PAY 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 PRODUCT LIST AND MEET ALL QUALIFYING SPECIFICATIONS AS DESCRIBED IN FDOT SECTION 660 "VEHICLE DETECTION SYSTEM" AS IT APPLIES TO VIDEO VEHICLE DETECTION SYSTEMS.

4. THE CONTRACTOR SHALL COORDINATE A FIELD MEETING WITH THE SIGNAL SUPERVISOR, PRIOR TO REMOVING ANY EXISTING EQUIPMENT, TO DETERMINE WHICH EQUIPMENT SHOULD BE DELIVERED TO BCTED. THE AGREED UPON EQUIPMENT SHALL BE DISASSEMBLED INTO THEIR COMPONENT PARTS, TAGGED AS TO LOCATION, PACKAGED AS NEEDED FOR PROTECTION FROM DAMAGE AND DELIVERED TO:

BROWARD COUNTY TRAFFIC ENGINEERING DIVISION
2300 WEST COMMERCIAL BLVD
FORT LAUDERDALE, FL 33309

ALL SIGNALIZATION EQUIPMENT THAT IS REMOVED AND NOT REQUESTED BY BCTED SHALL BE PROPERLY DISPOSED OF AT THE CONTRACTOR'S EXPENSE IN A MANNER AND LOCATION APPROVED BY THE SIGNAL SUPERVISOR.

THE SIGNAL SUPERVISOR IS TO BE CONTACTED AT 954-847-2600 AT LEAST 48 HOURS PRIOR TO DELIVERY. WRITTEN ACKNOWLEDGEMENT OF EQUIPMENT RECEIPT SHALL BE OBTAINED FROM THE SIGNAL SUPERVISOR IN THE FORM OF A SIGNED RECEIPT BEARING THE CONTRACTOR'S LETTERHEAD. THIS ITEMIZED RECEIPT SHALL STATE THAT ALL OF THE EQUIPMENT REMOVED FROM EACH LOCATION WAS RETURNED TO BCTED IN GOOD CONDITION. THE CONTRACTOR SHALL PRESENT THE RECEIPT TO BCTED AT THE TIME OF SIGNAL INSPECTION. ABSENCE OF SUCH RECEIPT SHALL BE RECORDED ON THE PUNCH LIST AS AN ITEM TO BE CORRECTED PRIOR TO FINAL APPROVAL OF THE INSTALLATION.

REVISIONS

DATE	DESCRIPTION

JOSHUA REICHERT, P.E.
P.E. LICENSE NUMBER 77036
METRIC ENGINEERING, INC.
1760 MARCO BEACH DRIVE, SUITE 1
JACKSONVILLE, FLORIDA 32224



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PUBLIC WORKS DEPARTMENT HIGHWAY CONSTRUCTION AND ENGINEERING DIVISION

CITY	INTERSECTION	COUNTY PROJECT NO.
WILTON MANORS	ANDREWS AVE AND NE 26TH ST	2164

GENERAL NOTES

SHEET
NO.

T-6

Joseph.martin

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PAY ITEM NOTES

102-1 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 ZONE; AND IF IT WAS VERIFIED TO BE PRESENT AT THE ACTIVE WORK ZONE BY THE ENGINEER OR INSPECTOR.

110-4-10 INCLUDES THE COST OF REMOVING CONCRETE CURB & GUTTER AND SIDEWALKS. ALSO INCLUDES STABILIZATION OF EARTHWORK UNDER SIDEWALK. THE PRICE OF SALVAGING AND DELIVERING OF BRICK PAVERS ARE INCIDENTAL TO THE PAY ITEM NUMBER.

110-86 INCLUDES THE DELIVERY OF THE EXISTING BRICK PAVERS TO BROWARD COUNTY PUBLIC WORKS.

337-7-82 INCLUDES THE COST OF ADJUSTING ACCESS STRUCTURES AND VALVE COVERS TO ELEVATION FLUSH WITH RESURFACED PAVEMENT GRADE.

522-2 INCLUDES THE COST OF ADJUSTING EXISTING UTILITY BOXES AND PULL BOXES TO THE NEW GRADE. CONCRETE STRENGTH REQUIREMENT FOR THIS PAY ITEM IS FC=3,000 PSI. THIS PAY ITEM INCLUDES THE COST OF CONSTRUCTION OF RAMPS AS INDICATED ON THE PLANS.

632-7-1 INCLUDES THE COST OF PEDESTRIAN SIGNAL HEAD WIRING/CABLE RUNS.

632-7-6, 641-2-70, 646-1-90 & 670-5-600 THE CONTRACTOR SHALL COORDINATE A FIELD MEETING WITH THE SIGNAL SUPERVISOR, PRIOR TO REMOVING ANY EXISTING EQUIPMENT, TO DETERMINE WHICH EQUIPMENT SHOULD BE DELIVERED TO BCTED. THE AGREED UPON EQUIPMENT SHALL BE DISASSEMBLED INTO THEIR COMPONENT PARTS, TAGGED AS TO LOCATION, PACKAGED AS NEEDED FOR PROTECTION FROM DAMAGE AND DELIVERED TO:

BROWARD COUNTY TRAFFIC ENGINEERING DIVISION
2300 W COMMERCIAL BLVD
FORT LAUDERDALE, FL 33309

ALL SIGNALIZATION EQUIPMENT THAT IS REMOVED AND NOT REQUESTED BY BCTED SHALL BE PROPERLY DISPOSED OF AT THE CONTRACTOR'S EXPENSE IN A MANNER AND LOCATION APPROVED BY THE SIGNAL SUPERVISOR.

THE SIGNAL SUPERVISOR IS TO BE CONTACTED AT 954-847-2600 AT LEAST 48 HOURS PRIOR TO DELIVERY. WRITTEN ACKNOWLEDGEMENT OF EQUIPMENT RECEIPT SHALL BE OBTAINED FROM THE SIGNAL SUPERVISOR IN THE FORM OF A SIGNED RECEIPT BEARING THE CONTRACTOR'S LETTERHEAD. THIS ITEMIZED RECEIPT SHALL STATE THAT ALL OF THE EQUIPMENT REMOVED FROM EACH LOCATION WAS RETURNED TO BCTED IN GOOD CONDITION. THE CONTRACTOR SHALL PRESENT THE RECEIPT TO BCTED AT THE TIME OF SIGNAL INSPECTION. ABSENCE OF SUCH RECEIPT SHALL BE RECORDED ON THE PUNCH LIST AS AN ITEM TO BE CORRECTED PRIOR TO FINAL APPROVAL OF THE INSTALLATION.

THIS PAY ITEM INCLUDES THE REMOVAL OF TRAFFIC SIGNAL AND CONTROL DEVICES FROM INTERSECTION LIMITS NOT IDENTIFIED BY OTHER PAY ITEMS, SUCH AS SIGNAL HEADS, ATTACHMENTS, MESSENGER AND CATENARY WIRES, GUYS, ANCHORS AND PULL BOXES (INCLUDING THOSE FROM JOINT USE FPL POLE).

643-140 & 649-33-000 INCLUDES CONTRACTOR'S COMPLIANCE WITH FLORIDA STATUTE 556. THE CONTRACTORS/EXCAVATOR SHALL USE INCREASED CAUTION TO PROTECT UNDERGROUND FACILITIES. THE PROTECTION REQUIRES HAND DIGGING, POT HOLING, SOFT DIGGING, VACUUM EXCAVATION METHODS, OR OTHER SIMILAR PROCEDURES TO IDENTIFY UNDERGROUND FACILITIES. NOT SEPARATE PAYMENT SHALL BE MADE TO CONTRACTOR FOR IDENTIFYING UTILITIES BY ANY OF THESE METHODS. ANY USE OF MECHANIZED EQUIPMENT WITHIN THE TOLERANCE ZONE MUST BE SUPERVISED BY THE CONTRACTORS/EXCAVATOR.

649-23-2 MAST ARM AND FOUNDATION TO BE FURNISHED BY BROWARD COUNTY.

650-1-14 & 650-1-18 ALL TRAFFIC SIGNAL HEADS SHALL BE STANDARD, NON-LIGHTWEIGHT UNLESS SPECIFIED BY THE ENGINEER. DRAIN HOLES AS REQUIRED UNDER SECTION 650-3.9 OF THE STANDARD SPECIFICATIONS SHALL BE PROVIDED FOR EACH SIGNAL SECTION. AN ARTICULATED ASTRO-BRACKET OR EQUIVALENT SHALL BE PROVIDED UNDER THIS PAY ITEM IF NEEDED FOR PROPER ORIENTATION SIGNAL HEAD ON A SKEWED ARM OR APPROACH. THIS PAY ITEM INCLUDES BACKPLATES AND TUNNEL VISORS. YELLOW RETRO REFLECTIVE BACK PLATE BORDERS ARE REQUIRED ON ALL BACK PLATES.

670-5-151 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. EQUIPMENT USED MUST BE 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. A FLUSH MOUNTED AUTOMATIC POWER TRANSFER SWITCH SHALL BE INCLUDED ON THE CABINET. A TECHNICIAN SERVICE PAD 30" IN WIDTH SHALL ALSO BE PROVIDED. WHENEVER POSSIBLE, THE CABINET IS TO BE PLACED SO THAT THE DOOR OPENS AWAY FROM THE INTERSECTION AND OPENS FULLY WITHIN THE RIGHT OF WAY. THIS PAY ITEM INCLUDES THE COST OF THE CONCRETE FOR THE CONTROLLER PAD AND THE SERVICE PAD.

684-6-11 THE CONTRACTOR SHALL FURNISH A CRADLEPOINT 1BR650C-150M-D ROUTER FOR CELLULAR COMMUNICATIONS CAPABILITY.

700-1-11 ALL SIGNS SHALL CONSIST OF SHEETING MATERIALS CERTIFIED TO MEET THE REFLECTIVE SHEETING REQUIREMENTS OUTLINED IN THE 2009 VERSION OF ASTM P4956 FOR TYPE XI (FDOT TYPE XI) RETROFLECTIVE SHEETING MATERIALS MADE WITH PRISMS WITH THE EXCEPTION OF SCHOOL ZONE AND PEDESTRIAN SIGNS, WHICH SHALL USE FLUORESCENT YELLOW-GREEN FDOT TYPE IV SHEETING.

700-1-60 INCLUDES DELIVERY OF REMOVED ASSEMBLY TO BROWARD COUNTY TRAFFIC ENGINEERING DIVISION AT 2300 W COMMERCIAL BLVD, FORT LAUDERDALE. PLEASE CONTACT THE TRAFFIC SIGNS SUPERINTENDENT AT 954-847-2717 TO COORDINATE THE DELIVERY OF MATERIALS.

700-5-22 ILLUMINATED STREET NAME SIGNS SHALL BE LED TYPE AND PRODUCE A MINIMUM OF 50 LUMENS PER WATT.

REVISIONS			PUBLIC WORKS DEPARTMENT HIGHWAY CONSTRUCTION AND ENGINEERING DIVISION			PAY ITEM NOTES	SHEET NO.
DATE	DESCRIPTION		CITY	INTERSECTION	COUNTY PROJECT NO.		
			WILTON MANORS	ANDREWS AVE AND NE 26TH ST	2164		T-7

TRAFFIC CONTROL

1. THE TRAFFIC CONTROL PLANS FOR THE PROJECT SHALL COMPLY WITH THE LATEST EDITION OF THE FDOT STANDARD PLANS, MUTCD, AND STANDARD SPECIFICATIONS.
2. IF THE CONTRACTOR IS REQUIRED BY BROWARD COUNTY TO DEVELOP AND IMPLEMENT MODIFICATIONS TO THE TRAFFIC SIGNAL OPERATIONS, OR IF THE CONTRACTOR DETERMINES A NEED TO MODIFY THE TRAFFIC SIGNAL OPERATIONS, THESE CHANGES MUST BE REPORTED TO BCTED'S CENTRAL COMPUTER SITE AT 954-847-2770 PRIOR TO THEIR IMPLEMENTATION.
3. DURING THE TIME THE CONTRACTOR IS RESTORING ALL MALFUNCTIONING TRAFFIC SIGNAL EQUIPMENT, THE CONTRACTOR SHALL PROVIDE, AT THEIR EXPENSE, TEMPORARY TRAFFIC CONTROL DEVICES, FLAGGER PERSONNEL, AND LAW ENFORCEMENT PERSONNEL AS NECESSARY TO MAINTAIN A SAFE AND EFFICIENT FLOW.
4. EARLY "TURN-ON" OF ANY NEW SIGNAL INSTALLATION WILL ONLY BE PERMITTED IF AUTHORIZED IN WRITING BY BCTED. IF THIS NEED ARISES, BCTED 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.
5. EXISTING COMMUNICATIONS OR COMMAND WIRE CONNECTIONS SHALL BE MAINTAINED AT ALL SIGNALIZED LOCATIONS DURING CONSTRUCTION. THIS SHALL INCLUDE INTERCONNECT, RAILROAD FLASHING BEACONS, RAILROAD PRE-EMPTION, FIRE PRE-EMPTION AND SCHOOL ZONE FLASHERS. THE CONTRACTOR SHALL PROVIDE TEMPORARY LINES AND CONNECTIONS IF NECESSARY.
6. THE CONTRACTOR SHALL MAINTAIN ON-LINE COMMUNICATIONS OF EXISTING OR TEMPORARY SIGNALIZATION VIA INTERCONNECT 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.
7. THE REGULATORY SPEED LIMITS ON BOTH ROADWAY CORRIDORS FOR THE INTERSECTION(S) DURING CONSTRUCTION SHALL BE MAINTAINED AT THE EXISTING POSTED SPEED LIMITS, UNLESS A SPEED REDUCTION IS REQUIRED FOR SAFE ROUTES TO SCHOOL.
8. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING A SAFE AND ADEQUATE WALKING SURFACE APPLICABLE TO THE AMERICANS WITH 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.
9. WHERE CONSTRUCTION ACTIVITIES INVOLVE CONSECUTIVE BUS STOPS, ACCESS TO AND FROM BUS STOPS SHALL BE MAINTAINED. IF ACCESS TO AND FROM ALL BUS STOPS CANNOT BE MAINTAINED, THEN A BUS STOP MAY BE TEMPORARILY RELOCATED OR REMOVED. HOWEVER, NO TWO (2) CONSECUTIVE BUS STOPS MAY BE AFFECTED IN THIS MANNER. IF A BUS STOP REQUIRES TEMPORARY REMOVAL OR RELOCATION, THEN BROWARD COUNTY MASS TRANSIT DIVISION (BCT) SHALL BE NOTIFIED AT 954-337-8369 AT LEAST THIRTY (30) DAYS IN ADVANCE TO ALLOW SUFFICIENT TIME TO PLAN DETOURS (IN CASE OF A ROAD CLOSURE) AND/OR TO COMMUNICATE WITH AFFECTED PASSENGERS.
10. THIRTY (30) DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE BROWARD COUNTY TRANSIT (BCT) AT 954-337-8369 TO ARRANGE A PRE-CONSTRUCTION TRANSIT ROUTE/PEDESTRIAN ACCESS SAFETY MEETING. THIS MEETING IS TO DETERMINE ALL BUS ROUTES AFFECTED AND TO MAKE ANY NECESSARY ARRANGEMENTS FOR REROUTING AND TEMPORARY SIGNING AND REMOVAL OF BUS STOP FURNITURE, I.E. BENCHES, SHELTERS, ETC.
11. 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 AND 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.
12. LANE CLOSURES ON A SATURDAY AND SUNDAY BETWEEN 8:00 AM AND 5:00 PM WILL BE ALLOWED, BUT ONLY WITH ADVANCED APPROVAL BY 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 FDOT LANE CLOSURE REQUIREMENTS.
13. IF TWO OR MORE LANES MUST BE CLOSED AT A TIME, THE CONTRACTOR SHALL REQUEST APPROVAL FROM THE COUNTY AT 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.
14. 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.
15. 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.
16. 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.
17. THE CONTRACTOR MAY BE REQUIRED TO REPOSITION EXISTING TRAFFIC SIGNAL HEADS IN ORDER TO MAINTAIN TRAFFIC FLOWS AT DIVERTED INTERSECTIONS. IF THIS SHOULD BE NECESSARY, CONTRACTOR MUST SUBMIT A PLAN FOR APPROVAL SHOWING THE COURSE OF WORK AND THE PLANNED REPOSITIONING. NO SEPARATE PAYMENT FOR REPOSITIONING THE EXISTING TRAFFIC SIGNAL HEADS WILL BE MADE.

MAINTENANCE OF TRAFFIC - SCHOOL/PEDESTRIAN


1. THE SAFE WALK ROUTE FOR ALL SCHOOL STUDENTS WITHIN THE VICINITY OF THE CONSTRUCTION ZONE SHALL BE MAINTAINED DURING STUDENT ARRIVAL AND DISMISSAL TIMES. IF THE CURRENT WALKING SURFACE CANNOT BE MAINTAINED, THEN A TEMPORARY WALKABLE SURFACE SHALL BE CREATED. THE SAFE WALK ROUTE SHALL BE SEPARATED FROM THE CONSTRUCTION ACTIVITY DURING THE ENTIRE LENGTH OF THE PROJECT ENCOMPASSING THE ENTIRE WALK ROUTE WITH PROPER PEDESTRIAN OPENINGS AT DESIGNATED CROSSINGS IN COMPLIANCE WITH FDOT STANDARD PLAN INDEX FOR MAINTENANCE OF TRAFFIC AS WELL AS MEETING ALL ADA REQUIREMENTS.
2. ALL CONSTRUCTION EQUIPMENT ACTIVITY AROUND ANY DESIGNATED CROSSWALK SHALL CEASE TO OPERATE DURING THE STUDENT ARRIVAL AND DISMISSAL TIMES. ALL CONSTRUCTION EQUIPMENT ACTIVITY ADJACENT TO A DESIGNATED WALK ROUTE SHALL CEASE OPERATING UNLESS SATISFACTORILY BARRICADED FROM THE WALK ROUTE.
3. IN THE CASE THAT A DESIGNATED CROSSING OR ANY PORTION OF THE DESIGNATED WALK ROUTE CANNOT BE MAINTAINED, THE CONTRACTOR SHALL NOTIFY THE SPECIAL PROJECTS COORDINATOR AT BROWARD COUNTY TRAFFIC ENGINEERING DIVISION, (954) 847-2600, A MINIMUM OF TEN (10) WORKING DAYS PRIOR TO CLOSING THAT ROUTE IN ORDER TO ESTABLISH AN ALTERNATE CROSSING/ROUTE.
4. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO INSTALL ANY NECESSARY PAVEMENT, ROAD ROCK, PAVEMENT MARKINGS AND SIGNAGE AND/OR ANY PEDESTRIAN SIGNALIZATION AND/OR SIGNAL MODIFICATION TO ACCOMMODATE AN EXISTING OR ALTERNATE WALK ROUTE THROUGHOUT THE ENTIRE LENGTH OF THE PROJECT.
5. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE STATE CERTIFIED SCHOOL CROSSING GUARDS OR OFF DUTY POLICE OFFICERS TO CROSS STUDENTS AT ALL LOCATIONS OTHER THAN THOSE PREVIOUSLY DESIGNATED. THE CONTRACTOR MAY USE FLAGMEN, BUT ONLY IF THEY ARE STATE CERTIFIED AS A SCHOOL CROSSING GUARD.
6. THIRTY (30) DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE SPECIAL PROJECTS COORDINATOR AT BROWARD COUNTY TRAFFIC ENGINEERING DIVISION, (954) 847-2600 OR AT BROWARD@TRAFFIC.ORG TO DISCUSS ALL NECESSARY SAFETY MEASURES.
7. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE FOLLOWING BROWARD COUNTY SCHOOL BOARD PUPIL TRANSPORTATION DEPARTMENT PERSONNEL IF CONSTRUCTION WILL IMPACT ANY BUS ROUTES:

RUTH MASTERS
ROUTING
(754) 321-4400 EXT. #2309
RUTH.MASTERS@BROWARDSCHOOLS.COM

VINCENT HARRELL
STUDENT TRANSPORTATION & FLEET SERVICE
(754) 321-4472
VINCENT.HARRELL@BROWARDSCHOOLS.COM

MARY TOCHTERMANN
STUDENT TRANSPORTATION & FLEET SERVICE
(754) 321-4400 EXT. #2006
MARY.TOCHTERMANN@BROWARDSCHOOLS.COM

UPON COORDINATION WITH THE FOREMENTIONED PERSONNEL, AND IF DEEMED NECESSARY, A PRE-CONSTRUCTION MEETING WILL BE HELD TO DETERMINE IF ALL BUS ROUTES AND TO MAKE ANY NECESSARY ARRANGEMENTS FOR REROUTING. THE SPECIAL PROJECTS COORDINATOR FROM BROWARD COUNTY TRAFFIC ENGINEERING DIVISION, (954) 847-2600, WILL BE NOTIFIED AND MAY ATTEND THE PRE-CONSTRUCTION MEETING.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AN APPROVED MAINTENANCE OF TRAFFIC PLAN (MOT), SPECIFYING THE SCHOOL/PEDESTRIAN CONDITIONS, THROUGH THE BROWARD COUNTY TRAFFIC ENGINEERING DIVISION OR THE LOCAL MUNICIPALITY, DEPENDING ON THE ROADWAY JURISDICTION. THE CONDITIONS OUTLINED IN THE MOT ARE FULLY EFFECTIVE AS PART OF THE PROPOSED IMPROVEMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT ALL WORK ASSOCIATED WITH THE PROJECT IS IN COMPLIANCE WITH ALL THE REQUIREMENTS OF THE APPROVED MOT.
9. THE CONTRACTOR SHALL ENSURE THAT THERE ARE NO SPEED LIMIT SIGNS INSTALLED WITHIN THE DESIGNATED REDUCED SPEED SCHOOL ZONE AT ANY TIME THROUGHOUT THE PROJECT.

REVISIONS		JOSHUA REICHERT, P.E. P.E. LICENSE NUMBER 77036 METRIC ENGINEERING, INC. 11760 MARCO BEACH DRIVE, SUITE 1 JACKSONVILLE, FLORIDA 32224		PUBLIC WORKS DEPARTMENT HIGHWAY CONSTRUCTION AND ENGINEERING DIVISION			TRAFFIC CONTROL NOTES	SHEET NO.
DATE	DESCRIPTION			CITY	INTERSECTION	COUNTY PROJECT NO.		T-8
				WILTON MANORS	ANDREWS AVE AND NE 26TH ST	2164		
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Joseph.martin

JOSHUA REICHERT, P.E.
P.E. LICENSE NUMBER 77036
METRIC ENGINEERING, INC.
11760 MARCO BEACH DRIVE, SUITE 1
JACKSONVILLE, FLORIDA 32224

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PAVEMENT DESIGN (1") MILLING & RESURFACING

MILL EXISTING ASPHALT PAVEMENT (1")
AND RESURFACE WITH ASPHALT FRICTION COURSE
FC-9.5 (TRAFFIC C) (PG 76-22) (1")

LEGEND

- MILLING & RESURFACING AREA
- PROPOSED 6" CONCRETE (INCLUDES CURB RAMPS)
- PROPOSED DETECTABLE WARNINGS
- EXISTING OVERHEAD ELECTRIC
- EXISTING WATER MAIN
- EXISTING SANITARY SEWER FORCE MAIN
- EXISTING GAS MAIN
- EXISTING BURIED FIBER
- EXISTING BURIED TELEPHONE

SURVEY CONTROL POINT TABLE

NORTHING	EASTING	ELEVATION	DESCRIPTION
664445.092	936122.111	3.91	SET N/D STAMPED TRAV. PT. LB6633
664295.815	936199.244	4.14	SET N/D STAMPED TRAV. PT. LB6633
664482.367	936405.070	4.32	SET N/D STAMPED TRAV. PT. LB6633

REMOVAL ITEMS

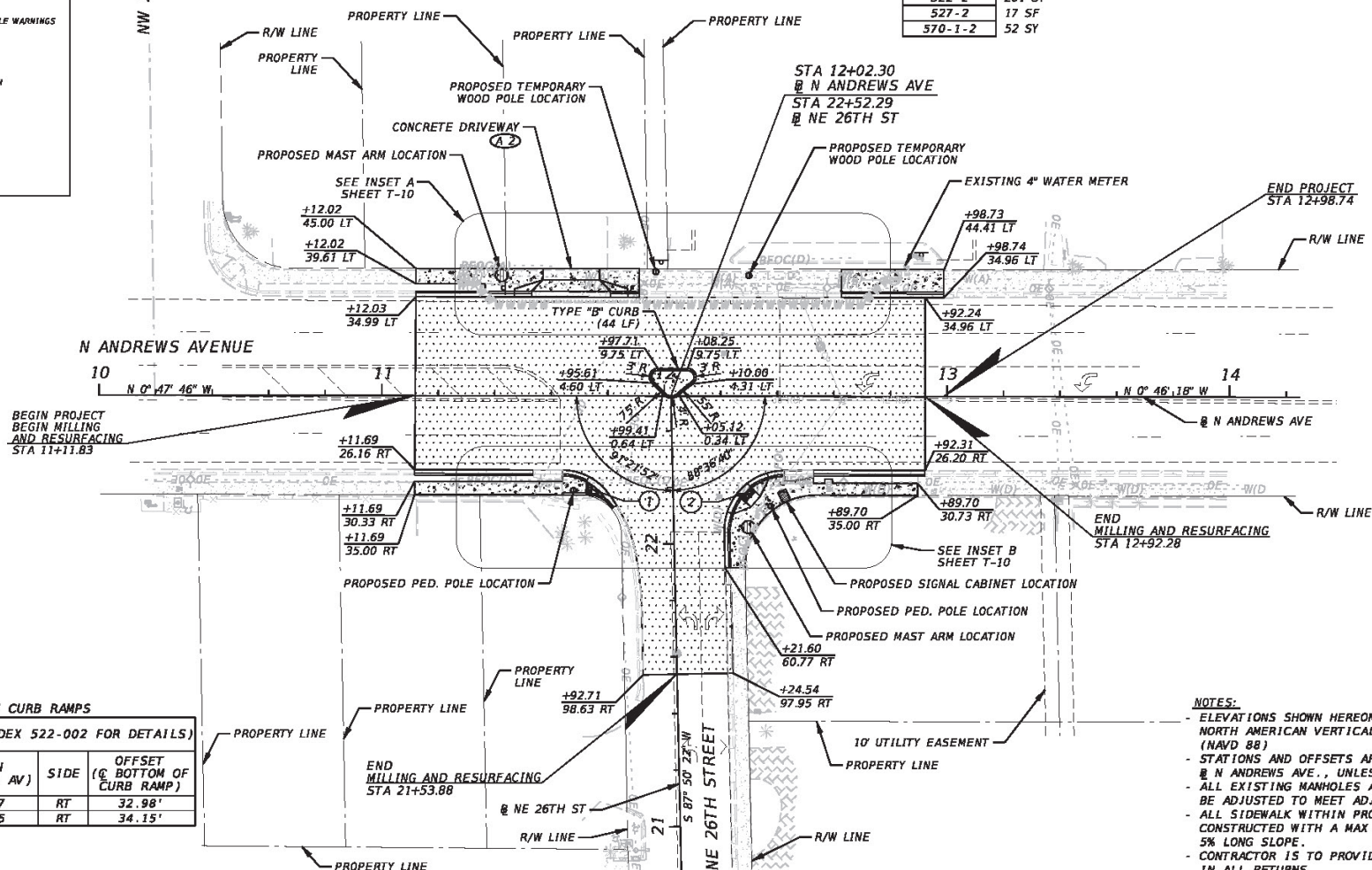
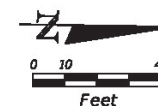
110-1-1	1 LS
110-4-10	244 SY
327-70-1	1497 SY

TEMPORARY FOR CONSTRUCTION

101-1	1 LS
102-1	1 LS
102-14	48 HR

PROPOSED IMPROVEMENTS

337-7-82	82.3 TN
520-1-10	268 LF
520-2-2	44 LF
522-2	201 SY
527-2	17 SF
570-1-2	52 SY



SUMMARY OF CURB RAMPS

(SEE STANDARD PLANS INDEX 522-002 FOR DETAILS)

RAMP NO.	TYPE	STATION (@ ANDREWS AV)	SIDE	OFFSET (@ BOTTOM OF CURB RAMP)
1	FLUSH	11+74.37	RT	32.98'
2	CR-A	12+28.95	RT	34.15'

PHASE 1

REVISIONS

DATE	DESCRIPTION

C. BRIAN FULLER, P.E.
P.E. LICENSE NUMBER 49524
METRIC ENGINEERING, INC.
525 TECHNOLOGY PARK, SUITE 153
LAKE MARY, FLORIDA 32746



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PUBLIC WORKS DEPARTMENT

HIGHWAY CONSTRUCTION AND ENGINEERING DIVISION

CITY	INTERSECTION	COUNTY PROJECT NO.
WILTON MANORS	ANDREWS AVE AND NE 26TH ST	2164

ROADWAY PLAN

SHEET NO.

T-9

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LEGEND

	PROPOSED 6" CONCRETE (INCLUDES CURB RAMPS)
	PROPOSED DETECTABLE WARNINGS
OE-----	EXISTING OVERHEAD ELECTRIC
W(D)-----	EXISTING WATER MAIN
S(D)-----	EXISTING SANITARY SEWER FORCE MAIN
G(D)-----	EXISTING GAS MAIN
BFOC(D)---	EXISTING BURIED FIBER
BT(D)---	EXISTING BURIED TELEPHONE

SUMMARY OF CURB RAMPS
(SEE STANDARD PLANS INDEX 522-002 FOR DETAILS)

RAMP NO.	TYPE	STATION (@ N ANDREWS AVE)	SIDE	OFFSET (@ BOTTOM OF CURB RAMP)
1	CR-C	12+32.22	LT	36.95'

SURVEY CONTROL POINT TABLE

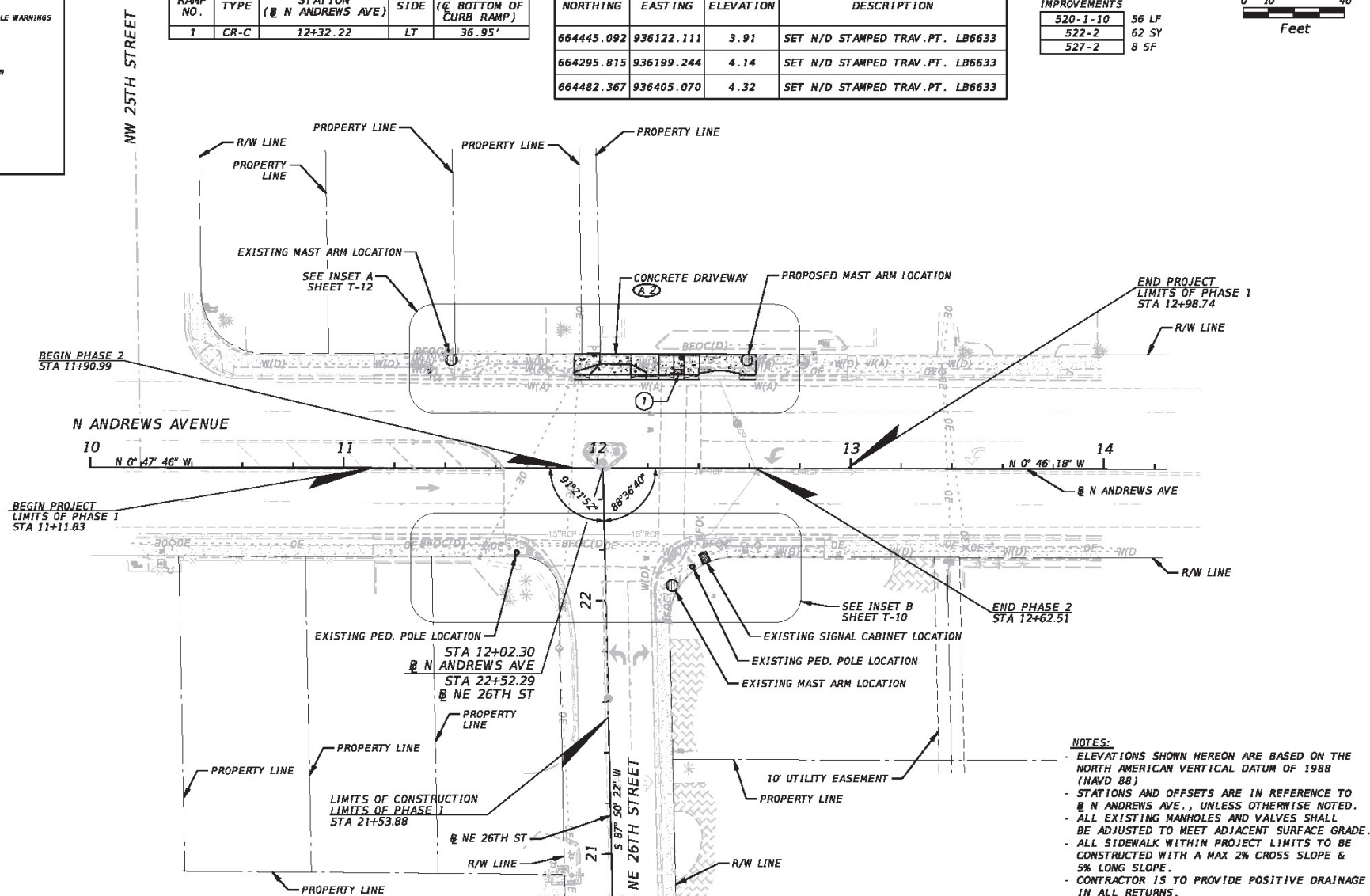
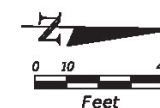
NORTHING	EASTING	ELEVATION	DESCRIPTION
664445.092	936122.111	3.91	SET N/D STAMPED TRAV.PT. LB6633
664295.815	936199.244	4.14	SET N/D STAMPED TRAV.PT. LB6633
664482.367	936405.070	4.32	SET N/D STAMPED TRAV.PT. LB6633

REMOVAL ITEMS

110-4-10	60 SY
----------	-------

PROPOSED IMPROVEMENTS

520-1-10	56 LF
522-2	62 SY
527-2	8 SF



- NOTES:**
- ELEVATIONS SHOWN HEREON ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88)
 - STATIONS AND OFFSETS ARE IN REFERENCE TO @ N ANDREWS AVE., UNLESS OTHERWISE NOTED.
 - ALL EXISTING MANHOLES AND VALVES SHALL BE ADJUSTED TO MEET ADJACENT SURFACE GRADE.
 - ALL SIDEWALK WITHIN PROJECT LIMITS TO BE CONSTRUCTED WITH A MAX 2% CROSS SLOPE & 5% LONG SLOPE.
 - CONTRACTOR IS TO PROVIDE POSITIVE DRAINAGE IN ALL RETURNS.

PHASE 2

REVISIONS

DATE	DESCRIPTION

C. BRIAN FULLER, P.E.
P.E. LICENSE NUMBER 49524
METRIC ENGINEERING, INC.
525 TECHNOLOGY PARK, SUITE 153
LAKE MARY, FLORIDA 32746

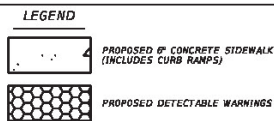
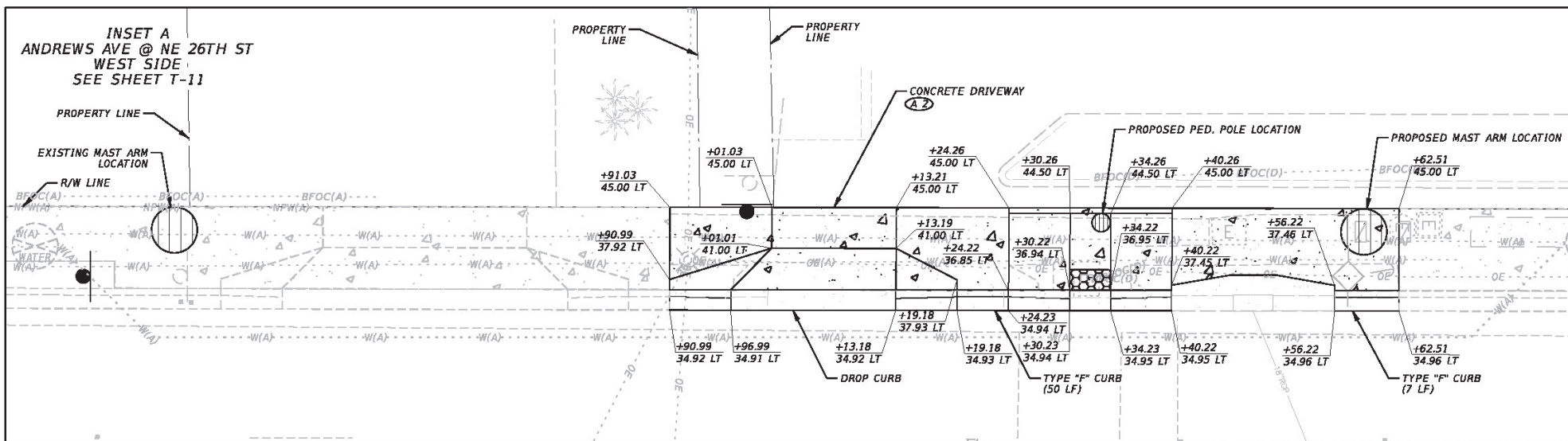


PUBLIC WORKS DEPARTMENT
HIGHWAY CONSTRUCTION AND ENGINEERING DIVISION

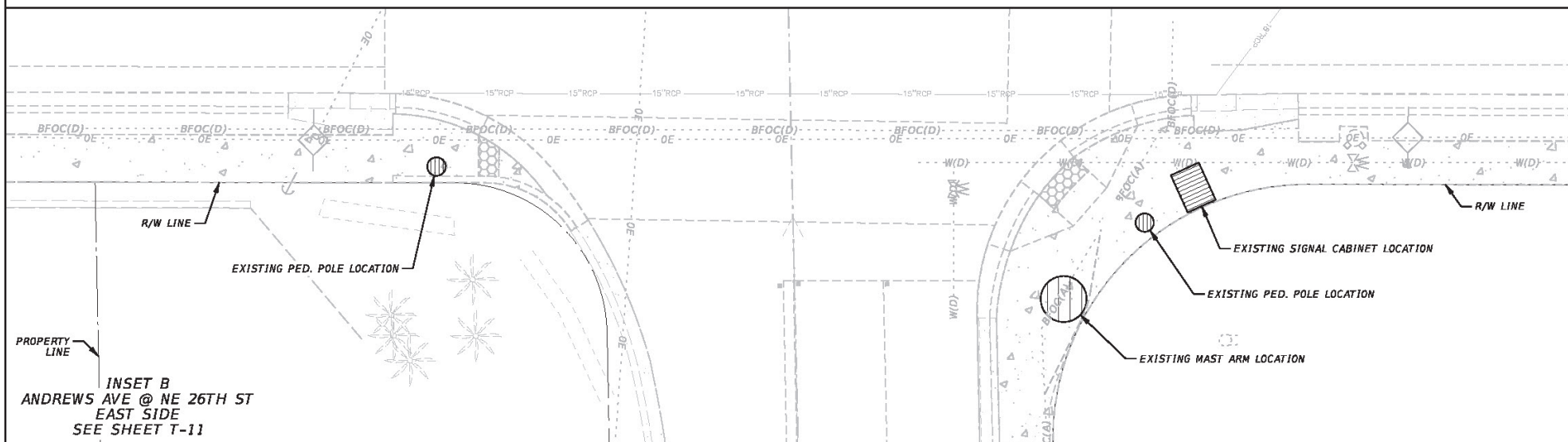
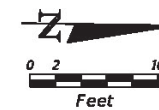
CITY	INTERSECTION	COUNTY PROJECT NO.
WILTON MANORS	ANDREWS AVE AND NE 26TH ST	2164


ROADWAY PLAN

SHEET NO.
T-11



PHASE 2



REVISIONS		C. BRIAN FULLER, P.E. P.E. LICENSE NUMBER 49524 METRIC ENGINEERING, INC. 525 TECHNOLOGY PARK, SUITE 153 LAKE MARY, FLORIDA 32746		PUBLIC WORKS DEPARTMENT HIGHWAY CONSTRUCTION AND ENGINEERING DIVISION			ROADWAY PLAN	SHEET NO.
DATE	DESCRIPTION			CITY	INTERSECTION	COUNTY PROJECT NO.		
				WILTON MANORS	ANDREWS AVE AND NE 26TH ST	2164		

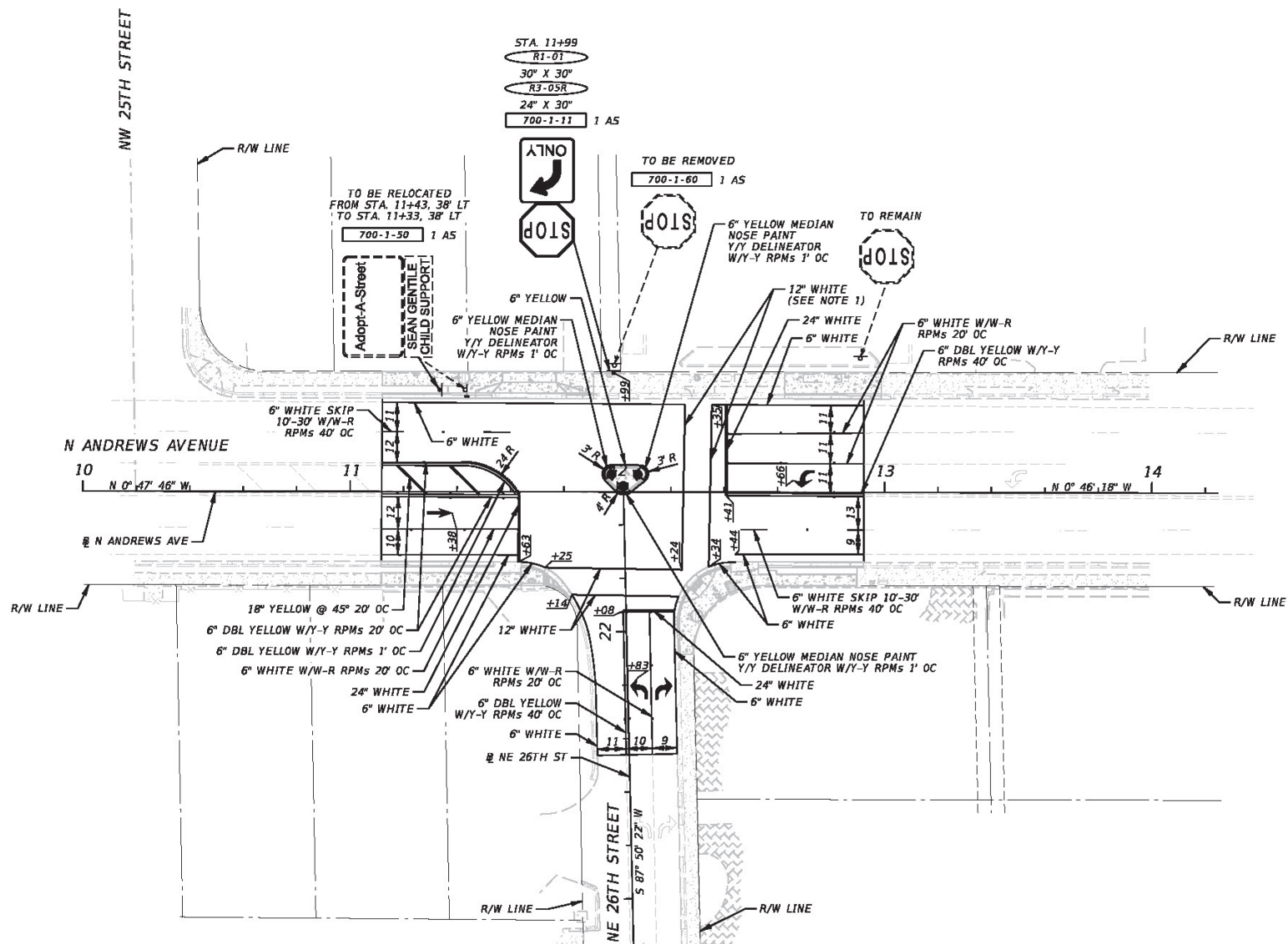
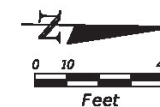
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NOTE 1:
NORTH-SOUTH CROSSWALK TO BE INSTALLED AFTER PHASE 2 SIGNAL INSTALLATION.



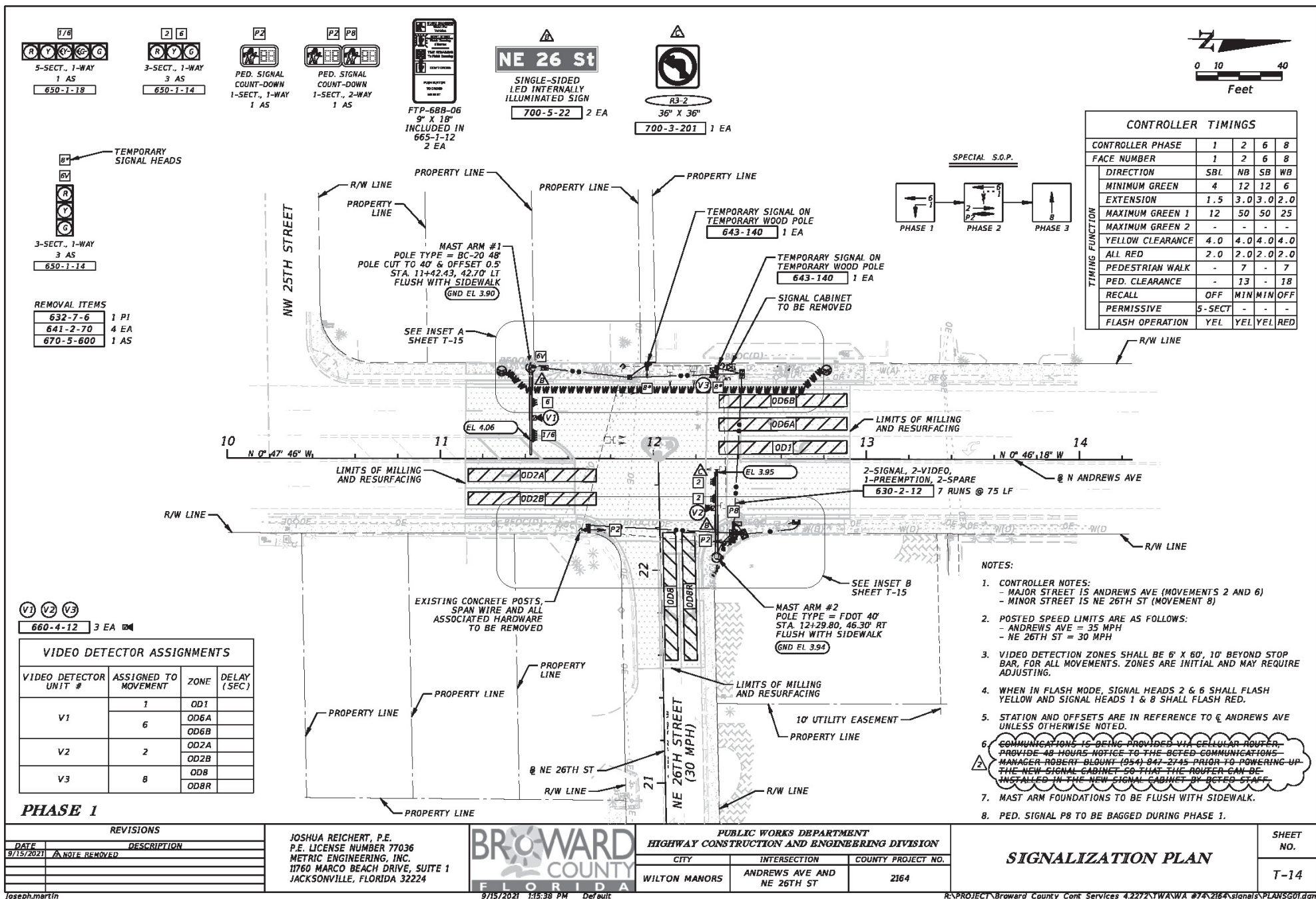
REVISIONS		JOSHUA REICHERT, P.E. P.E. LICENSE NUMBER 77036 METRIC ENGINEERING, INC. 1760 MARCO BEACH DRIVE, SUITE 1 JACKSONVILLE, FLORIDA 32224		PUBLIC WORKS DEPARTMENT HIGHWAY CONSTRUCTION AND ENGINEERING DIVISION			SIGNING & PAVEMENT MARKING PLAN	SHEET NO. T-13
DATE	DESCRIPTION			CITY	INTERSECTION	COUNTY PROJECT NO.		
				WILTON MANORS	ANDREWS AVE AND NE 26TH ST	2164		

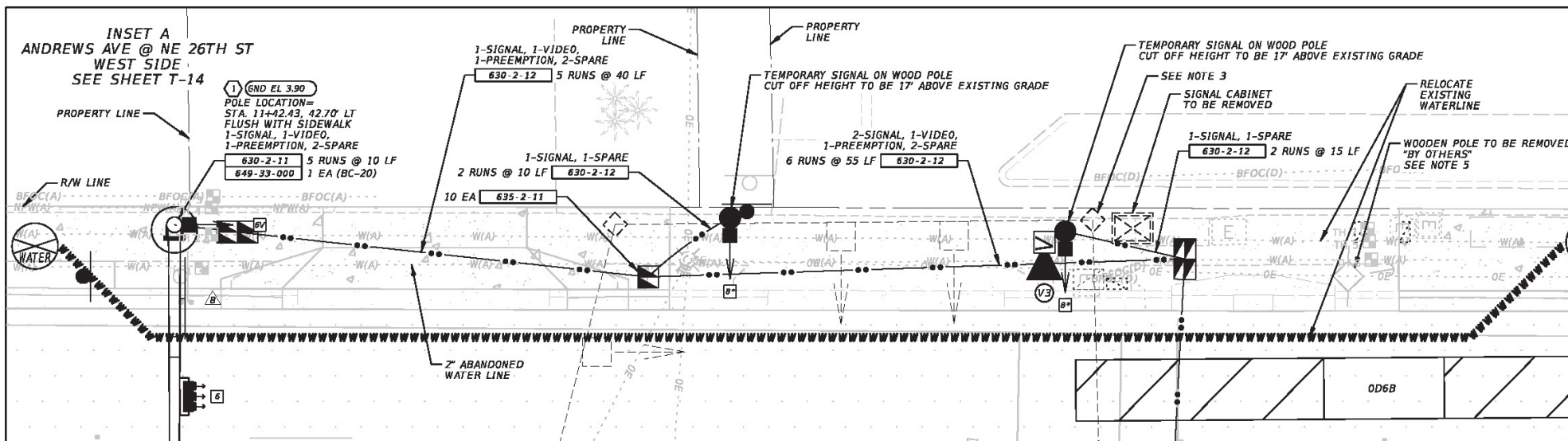
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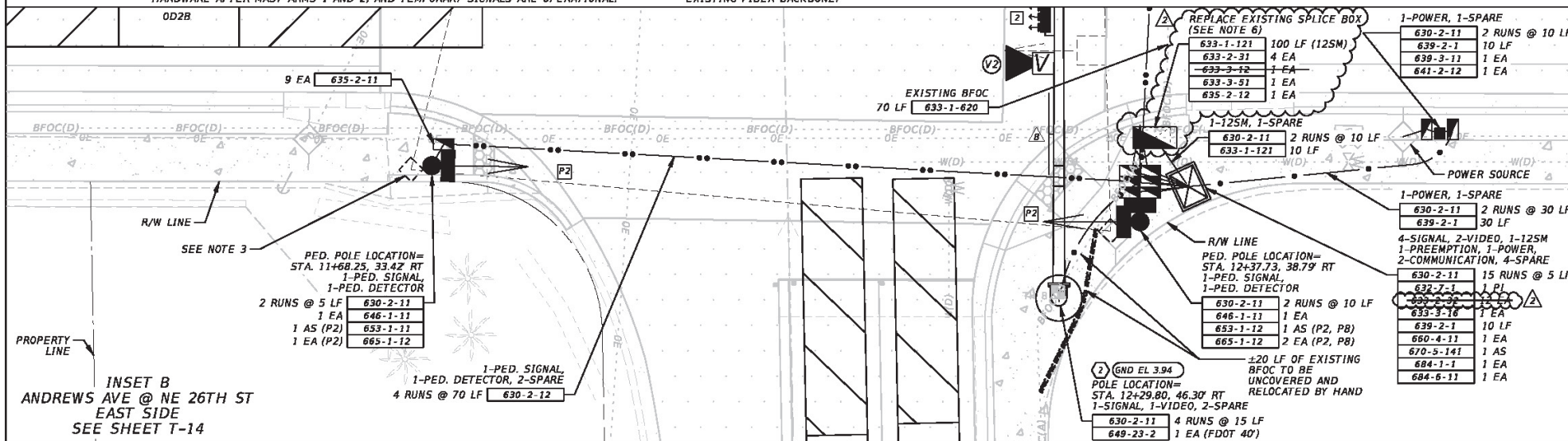
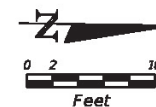




SIGNAL CONSTRUCTION PHASING:

PHASE 1

1. INSTALL MAST ARMS 1 AND 2. MAST ARM 2 AND FOUNDATION TO BE FURNISHED BY BROWARD COUNTY
2. INSTALL TEMPORARY WOOD POLES AND TEMPORARY SIGNAL HEADS.
3. REMOVE EXISTING CONCRETE STRAIN POLES, SPAN WIRE AND ALL ASSOCIATED HARDWARE AFTER MAST ARMS 1 AND 2, AND TEMPORARY SIGNALS ARE OPERATIONAL.
4. NORTHBOUND PEDESTRIAN SIGNAL P8 TO BE BAGGED UNTIL PHASE 2 COMPLETION.
5. CONTRACTOR SHALL CONTACT AT&T 60 DAYS PRIOR TO CONSTRUCTION FOR WOODEN POLE REMOVAL.
6. MATCH EXISTING SPLICE SCHEME WHEN SPLICING THE PROPOSED FIBER DROP TO THE EXISTING FIBER BACKBONE.



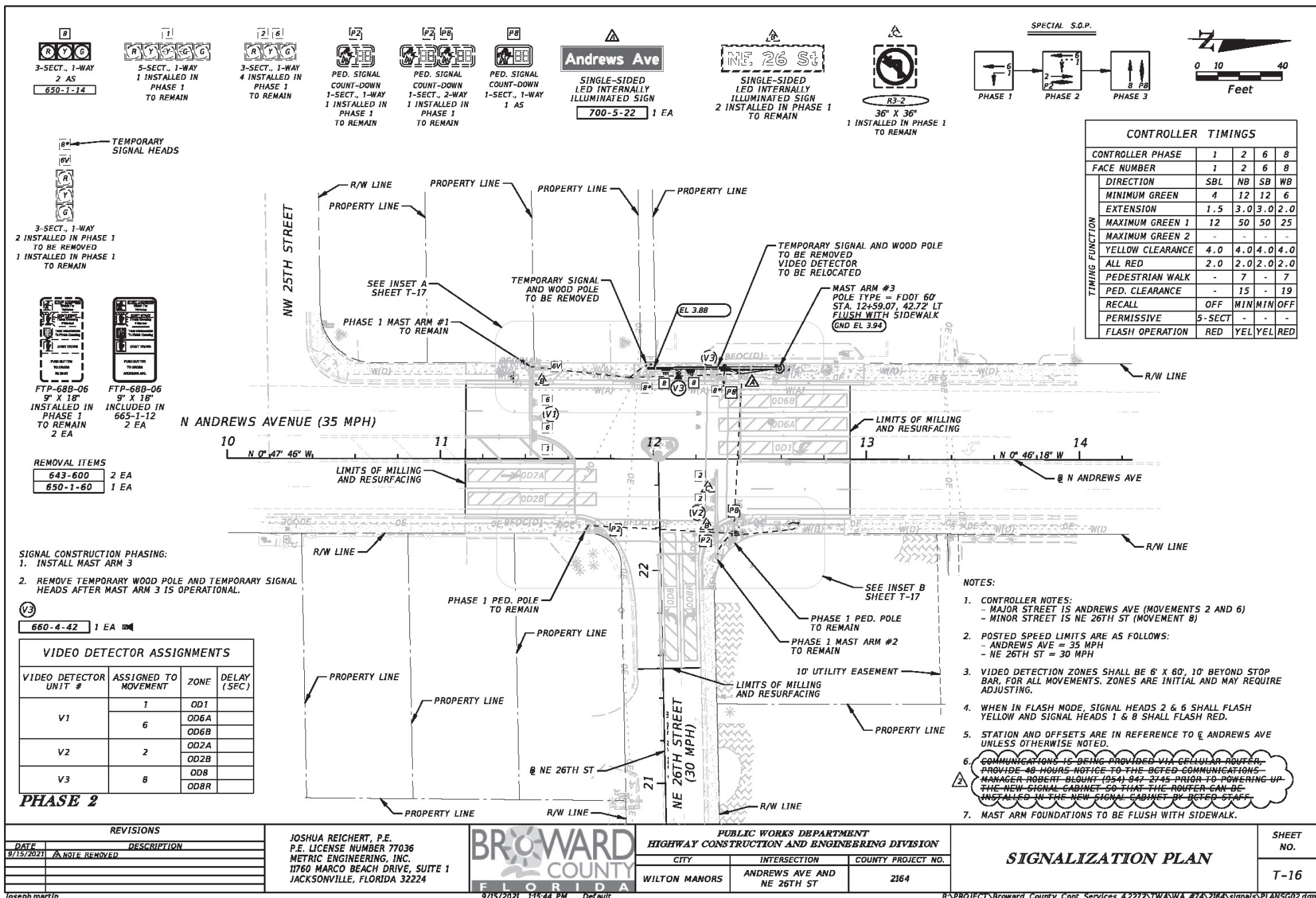
REVISIONS		JOSHUA REICHERT, P.E. P.E. LICENSE NUMBER 77036 METRIC ENGINEERING, INC. 11760 MARCO BEACH DRIVE, SUITE 1 JACKSONVILLE, FLORIDA 32224	BROWARD COUNTY FLORIDA	PUBLIC WORKS DEPARTMENT HIGHWAY CONSTRUCTION AND ENGINEERING DIVISION			SHEET NO. T-15
DATE	DESCRIPTION			CITY	INTERSECTION	COUNTY PROJECT NO.	
9/15/2021	UPDATED EXISTING FIBER CONNECTION			WILTON MANORS	ANDREWS AVE AND NE 26TH ST	2164	

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PHASE 1 MAST ARM #1
TO REMAIN

TEMPORARY SIGNAL
AND WOOD POLE

2 RUNS @ 10 LF
1 EA
1 AS (PB)
1 EA (PB)

TEMPORARY SIGNAL
AND WOOD POLE
TO BE REMOVED
VIDEO DETECTOR
TO BE RELOCATED

3 GND EL 3.94
POLE LOCATION=
STA. 12+59.07, 42.72 LT
2-SIGNAL, 1-VIDEO, 2-SPARE
5 RUNS @ 20 LF 630-2-11
1 EA 649-21-10

SIGNAL CONSTRUCTION PHASING:

- 1. INSTALL MAST ARM 3**
- 2. REMOVE TEMPORARY WOOD POLES AND TEMPORARY SIGNAL HEADS AFTER MAST ARM 3 IS OPERATIONAL.**



JOSHUA REICHERT, P.E.
P.E. LICENSE NUMBER 77036
METRIC ENGINEERING, INC.
11760 MARCO BEACH DRIVE, SUITE 1
JACKSONVILLE, FLORIDA 32224



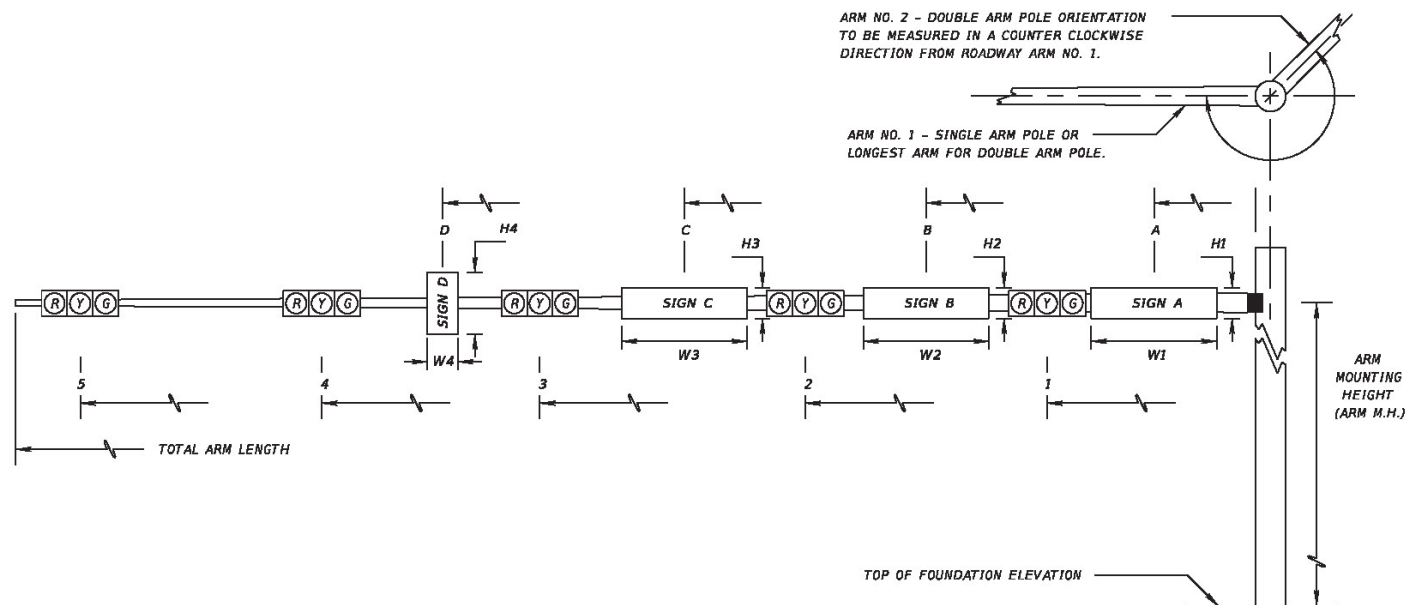
SIGNALIZATION PLAN

SHEET NO.	T-17
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Joseph Martin

SPECIAL INSTRUCTIONS				
ID NO.	PED. BUTTON	PED. SIGNALS	HANDHOLE LOCATION	



* DENOTES NUMBER OF SECTIONS IN SIGNAL HEAD ASSEMBLY

							SIGNAL DATA																VIDEO DATA		SIGN DATA																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
ID NO.	SHEET NO.	LOCATION BY STA.	GROUND ELEVATION	TOP OF FOUND ELEVATION	ROWY ARM NO.	CROWN ELEV.	SIGNAL V/H	BACK PLATES Y/N	PED. SIGNAL Y/N	DISTANCE FROM POLE																		TOTAL ARM LENGTH	ARM MH	ARM TYPE	DISTANCE FROM POLE / HEIGHT AND WIDTH OF SIGN																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
										1	*	2	*	3	*	4	*	5	*	6	*	1	2	A	H1	W1	B				H2	W2	C	H3	W3	D	H4	W4																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					

NOTE: ALL MAST ARMS TO BE PAINTED SOLAR BLACK

REVISIONS		JOSHUA REICHERT, P.E. P.E. LICENSE NUMBER 77036 METRIC ENGINEERING, INC. 11760 MARCO BEACH DRIVE, SUITE 1 JACKSONVILLE, FLORIDA 32224		PUBLIC WORKS DEPARTMENT HIGHWAY CONSTRUCTION AND ENGINEERING DIVISION			MAST ARM TABULATION	SHEET NO. T-20
DATE	DESCRIPTION			CITY	INTERSECTION	COUNTY PROJECT NO.		
				WILTON MANORS	ANDREWS AVE AND NE 26TH ST	2164		

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

STANDARD MAST ARM ASSEMBLIES DATA TABLE													Table Date: 02/26/2021			
STRUCTURE ID NUMBERS	DESIGNATION	FIRST ARM		SECOND ARM		UF (deg)	LL (deg)	POLE			SHAFT LENGTH DA (ft)	SPECIAL DRILLED SHAFT				
		ARM ID	(2) FAA (ft.)	ARM TYPE	(2) FAA (ft.)			POLE ID	(3) UAA (ft.)	UB (ft.)		SHAFT DIAMETER DB (ft)	RA	RB	RC	RD (in.)
2	A40/S-P2/S	A40/S	-	-	-	-	-	P2/S	24	21	15	4.5	11	15	6	8
3	A60/S-P4/S	A60/S	-	-	-	-	-	P4/S	22	19	15	4.5	11	15	12	8


TABLE NOTES:

1. If an entry appears in columns "FAA" and "FBA", a shorter arm is required. This is obtained by removing length from the arm tip. For these cases the mast arm length shall be shortened from "FA" to "FBA".
2. If an entry appears in columns "UAA" and "UCA", a shorter pole is required. This is obtained by removing length from the pole tip. For these cases the pole height shall be shortened from "UA" to "UAA" and the pole tip diameter shall be increased from "UC" to "UCA".
3. The foundations for Standard Mast Arm Assemblies based on the soil properties described in Report GE-MEI-BrCO-19-5-rep-wilton-pkg-sd from HP Consultants, Inc. dated October 21st, 2020.

	SOIL TYPE	EFFECTIVE UNIT WEIGHT	FRICTION ANGLE	SPT N-VALUE
POLE 2:	SAND	51.7	31.0	15.3
POLE 3:	SAND	53.4	34.1	11.0

GENERAL NOTES:

1. 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.
2. Work with FDOT FY 2019-20 Standard Plans 649-030 and 649-031.

REVISIONS		<p>PETER J. MEDICO, P.E. P.E. LICENSE NUMBER 86423 METRIC ENGINEERING, INC. 525 TECHNOLOGY PARK, SUITE 153 LAKE MARY, FLORIDA 32746</p>		PUBLIC WORKS DEPARTMENT HIGHWAY CONSTRUCTION AND ENGINEERING DIVISION			<p>STANDARD MAST ARM ASSEMBLIES DATA TABLE</p>	SHEET NO.
DATE	DESCRIPTION			CITY	INTERSECTION	COUNTY PROJECT NO.		
				WILTON MANORS	ANDREWS AVE AND NE 26TH ST	2164		T-21

Joseph.martin

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BROWARD COUNTY SIGNAL MAST ARM ASSEMBLIES DATA TABLE

STRUCTURE ID NUMBERS	ASSEMBLY NUMBERS ⁽¹⁾	FIRST ARM		POLE		MAST ARM TO POLE CONNECTION RETROFIT		DRILLED SHAFT ⁽⁴⁾								FOUNDATION DESIGN SOIL PARAMETERS			
		FAA ⁽²⁾ (ft.)	FBA ⁽²⁾ (in.)	"UB" (ft.)	"HT" ⁽³⁾ (ft.)	DETAIL	"H" (in.)	DA (ft.)	DB (ft.)	RA	RB	RC	RD (in.)	RE	RF (in.)	SOIL TYPE	EFFECTIVE UNIT WEIGHT (pcf)	SOIL FRICTION ANGLE (deg)	COHESION (psf)
1	BC-20	40.00	9.91	19.50	2.00	2	19	21.00	4.0	11	12	12	8	2	12	SAND	53.9	34.7	NA

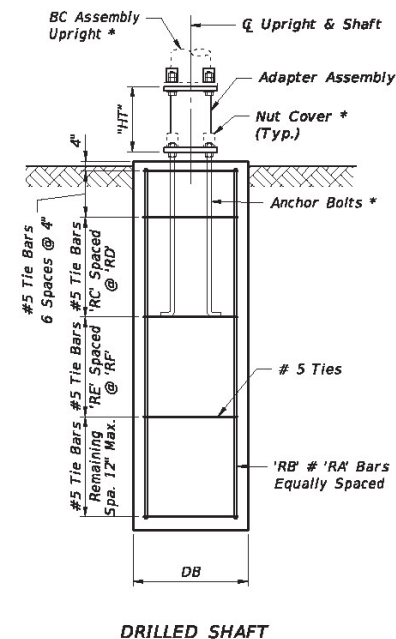
TABLE NOTES:


- Coordinate with Broward County signal mast arm assemblies shop drawings in signal plans (Ref. 50300-8994).
- If an entry appears in columns "FAA" and "FBA", a shorter arm is required. This is obtained by removing length from the arm tip. For these cases the first piece of the mast arm length shall be shortened to "FAA" with a tip diameter of "FBA".
- If an entry appears in column "HT", an adapter plate assembly is required to meet the specified arm mounting height requirement "UB". In these cases an adapter plate assembly shall be provided per details on Sheet 5-3.
- The foundations for these Mast Arm assemblies are based upon soil criteria determined by HP Consultants, Inc. For recommended soil parameters, refer to the geotechnical report signed and sealed by A.S. Kumbhojkar, PHD, P.E. dated October 21st, 2020.

GENERAL NOTES:

- Drilled Shaft foundations shall be constructed in accordance with FDOT Standard Plans 649-031.

* Broward County signal Mast Arm assembly component fabricated by Union Metal Corporation. See signal plans (Ref. 50300-8994).



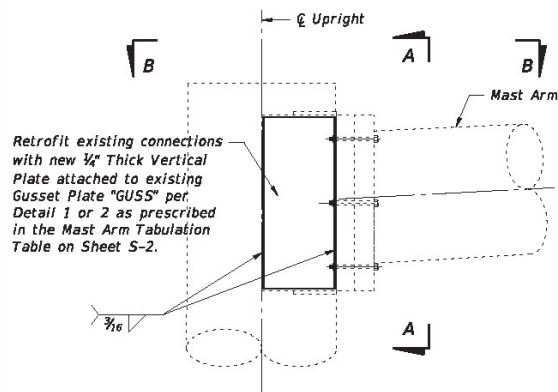
REVISIONS		<p>PETER J. MEDICO, P.E. P.E. LICENSE NUMBER 86423 METRIC ENGINEERING, INC. 525 TECHNOLOGY PARK, SUITE 153 LAKE MARY, FLORIDA 32746</p>		PUBLIC WORKS DEPARTMENT HIGHWAY CONSTRUCTION AND ENGINEERING DIVISION			<p>BROWARD COUNTY MAST ARM ASSEMBLIES DATA TABLE</p>	<p>SHEET NO. T-22</p>
DATE	DESCRIPTION			CITY	INTERSECTION	COUNTY PROJECT NO.		
				WILTON MANORS	ANDREWS AVE AND NE 26TH ST	2164		

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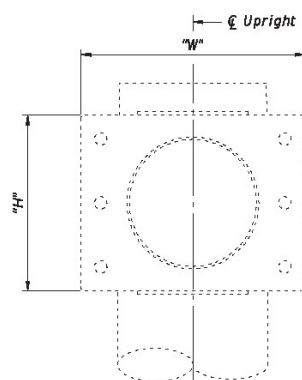
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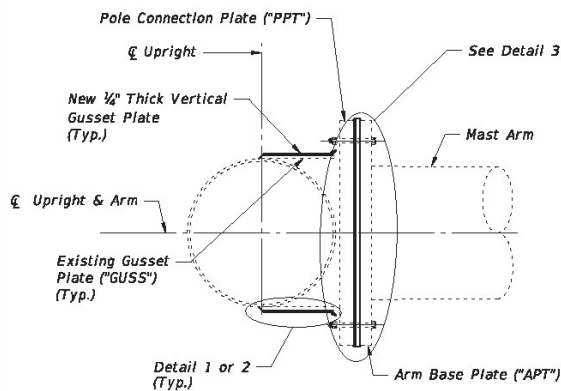
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MAST ARM TO POLE CONNECTION DETAIL
(Vertical Plate Retrofit)



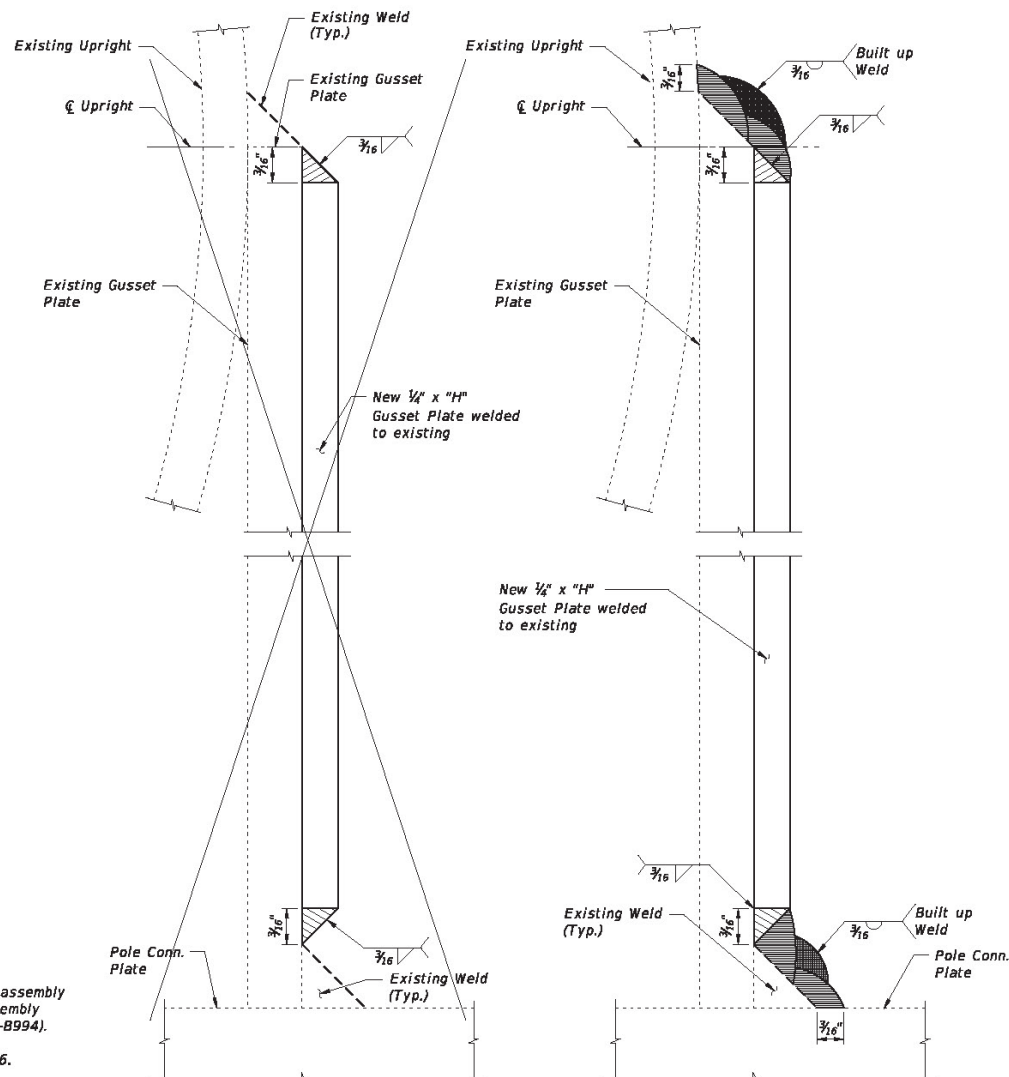
SECTION A-A
(6 Bolt Connection Shown,
4 Bolt Connection Similar)



VIEW B-B

Notes:

1. For "H", "W", "GUSS" and other existing BC assembly component dimensions, coordinate with assembly shop drawings in signal plans (Ref. 50300-B994).
2. New steel plate material shall be ASTM A36.
3. Weld metal shall be E70XX.
4. Plate shall be A123 galvanized Per ASTM.
5. Treat all damaged galvanized surfaces with cold galvanizing as required.



DETAIL 1
(Not Applicable)

DETAIL 2

REVISIONS	
DATE	DESCRIPTION

PETER J. MEDICO, P.E.
P.E. LICENSE NUMBER 86423
METRIC ENGINEERING, INC.
525 TECHNOLOGY PARK, SUITE 153
LAKE MARY, FLORIDA 32746



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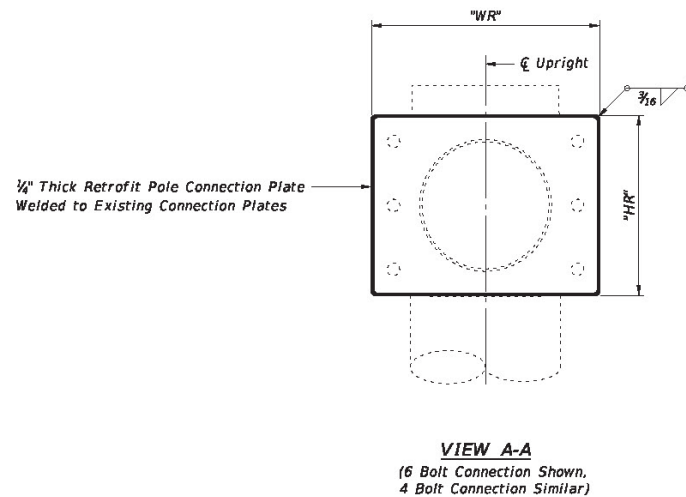
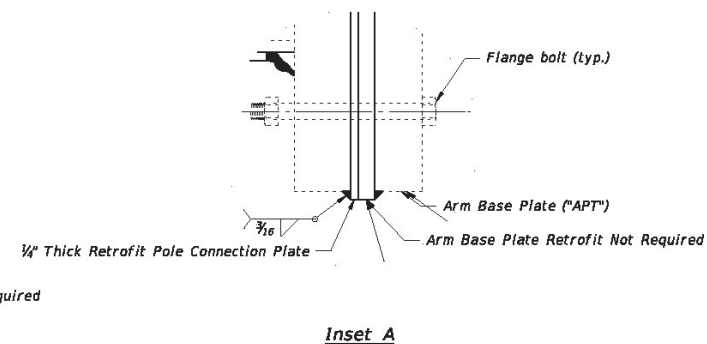
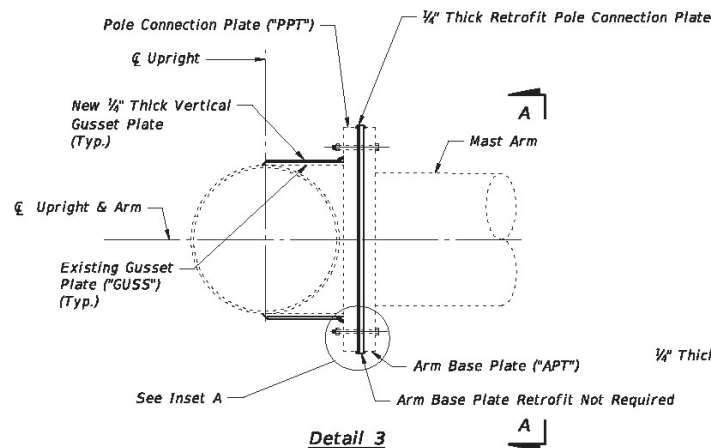
PUBLIC WORKS DEPARTMENT HIGHWAY CONSTRUCTION AND ENGINEERING DIVISION		
CITY	INTERSECTION	COUNTY PROJECT NO.
WILTON MANORS	ANDREWS AVE AND NE 26TH ST	2164

**MAST ARM RETROFIT
DETAILS (1 OF 3)**

SHEET
NO.
T-23

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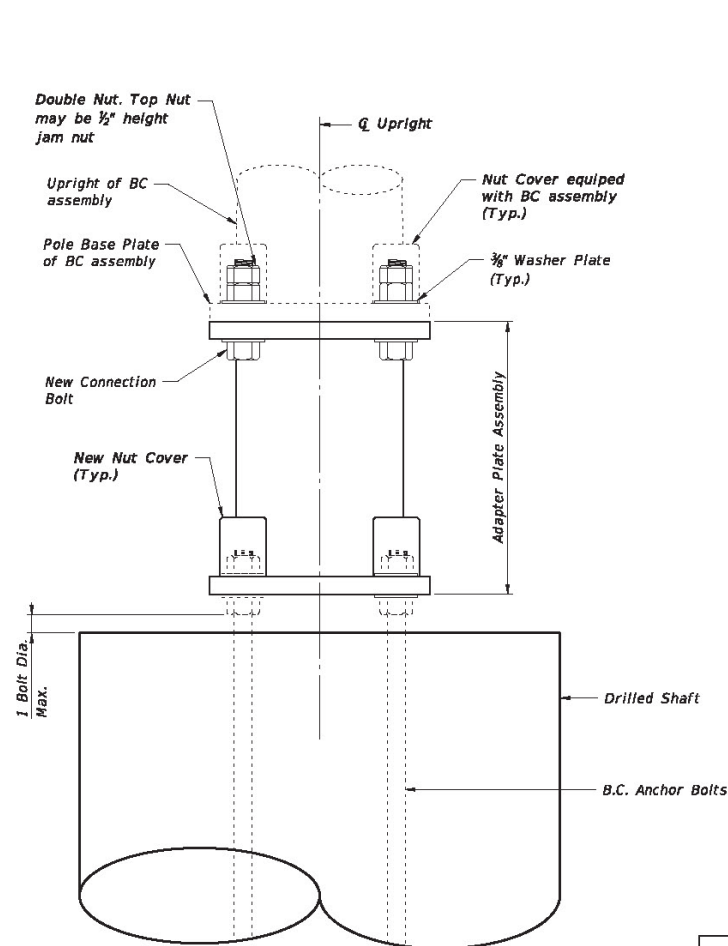


- Notes:**
1. For "H", "W", "GUSS" and other existing BC assembly component dimensions, coordinate with assembly shop drawings in signal plans (Ref. 50300-8994).
 2. New steel plate material shall be ASTM A36.
 3. Weld metal shall be E70XX.
 4. Plate shall be A123 galvanized Per ASTM.
 5. Treat all damaged galvanized surfaces with cold galvanizing as required.
 6. Work this sheet with "MAST ARM RETROFIT DETAILS (1 of 3)" and Broward County Standard Mast Arms.
 7. Contractor to ensure a minimum flange bolt length of 7" from bottom of head to end of shaft.

RETROFIT PLATE TABLE			
STRUCTURE ID	BC ASSEMBLY ID	"WR" (in)	"HR" (in)
1	BC-20	26 1/2"	19 1/2"

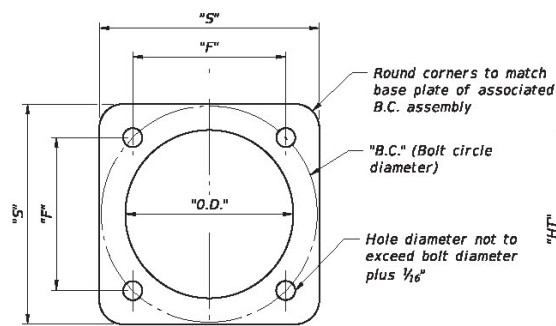
REVISIONS		PETER J. MEDICO, P.E. P.E. LICENSE NUMBER 86423 METRIC ENGINEERING, INC. 525 TECHNOLOGY PARK, SUITE 153 LAKE MARY, FLORIDA 32746		PUBLIC WORKS DEPARTMENT			MAST ARM RETROFIT DETAILS (2 OF 3)	SHEET NO. T-24
DATE	DESCRIPTION			HIGHWAY CONSTRUCTION AND ENGINEERING DIVISION				
				CITY	INTERSECTION	COUNTY PROJECT NO.		
		WILTON MANORS	ANDREWS AVE AND NE 26TH ST	2164				

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

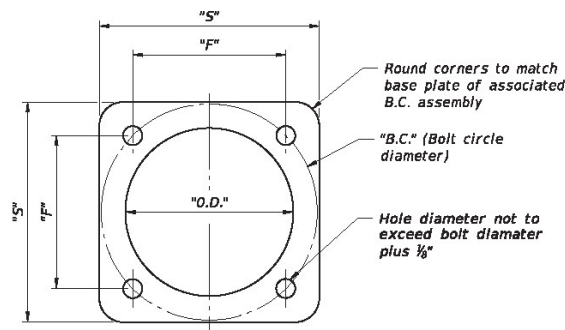


ELEVATION

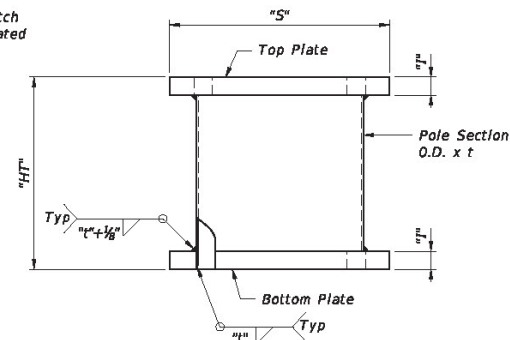
ADAPTER PLATE ASSEMBLY CONNECTION



TOP PLATE



BOTTOM PLATE



ADAPTER PLATE ASSEMBLY DETAIL

Notes:

1. Adapter Plate Assembly materials shall be as follows:
Pole: ASTM-A595 Grade A or A507 Grade 55.
Plates: ASTM A36.
Weld metal: E70XX
Bolts: ASTM A354.
2. All steel items shall be galvanized as follows:
Nuts, Bolts and Washers: F2329.
Pole, Plates: ASTM A123.
3. Contractor shall submit Adapter Plate shop fabrication drawings for review and approval by the Engineer of Record.

ADAPTER PLATE ASSEMBLIES DATA TABLE													
STRUCTURE ID	BC ASSEMBLY ID	"HT" (ft)	TOP PLATE				BOTTOM PLATE				POLE SECTION		
			"S" (IN)	"F" (IN)	"B.C." (IN)	"O.D." (IN)	"S" (IN)	"F" (IN)	"B.C." (IN)	"O.D." (IN)	"t" WALL THICKNESS (IN)	LENGTH (IN)	BOLT DIA. (IN)
1	BC-20	2.0	25.0	2.0	17.0	24.0	25.0	2.0	17.0	24.0	0.25	20	2.0

REVISIONS	
DATE	DESCRIPTION

PETER J. MEDICO, P.E.
P.E. LICENSE NUMBER 86423
METRIC ENGINEERING, INC.
525 TECHNOLOGY PARK, SUITE 153
LAKE MARY, FLORIDA 32746



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PUBLIC WORKS DEPARTMENT HIGHWAY CONSTRUCTION AND ENGINEERING DIVISION		
CITY	INTERSECTION	COUNTY PROJECT NO.
WILTON MANORS	ANDREWS AVE AND NE 26TH ST	2164

**MAST ARM RETROFIT
DETAILS (3 OF 3)**

SHEET NO.
T-25

Joseph.martin

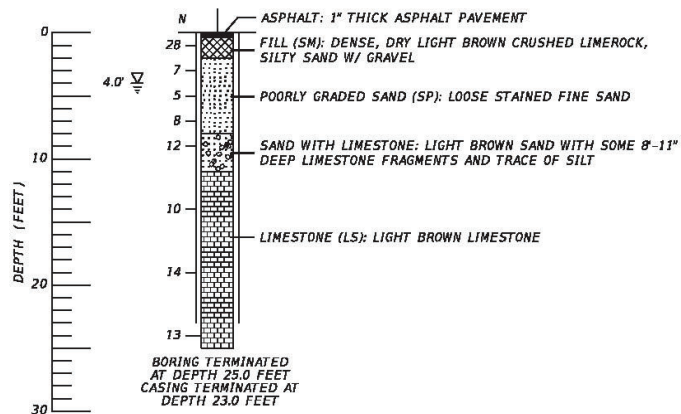
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BORING LOCATION PLAN

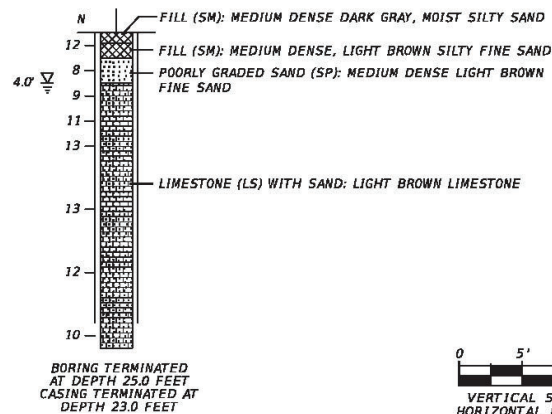


BORING LOCATION (NOTE: BORING LOCATIONS SHOWN ARE APPROXIMATE)

BORING No. B-1
LATITUDE 26.159197°
LONGITUDE -80.146211°
ELEVATION NA
HAMMER AUTOMATIC
TYPE OF RIG B-53
DATE 10/05/20



BORING No. B-2
LATITUDE 26.158942°
LONGITUDE -80.146492°
ELEVATION NA
HAMMER AUTOMATIC
TYPE OF RIG B-53
DATE 10/05/20



LEGEND

	PAVING
	FILL
	POORLY GRADED SAND (SP)
	LIMESTONE (LS) WITH SAND
	LIMESTONE (LS)
	SAND WITH LIMESTONE

CORROSION SERIES TEST RESULTS

BORING NO.	SAMPLE NO.	SAMPLE DEPTH	MATERIAL TYPE	pH	ELECTRIC RESISTIVITY (OHM-CM)	SULFATE CONTENT MG/KG ¹	CHLORIDE CONTENT MG/KG ¹	SUBSTRUCTURE ENVIRONMENT CLASSIFICATION
B-1	-	-	WATER	7.7	2690	8.2	14.1	* MA CONCRETE AND STEEL
B-2	-	-	WATER	7.6	2650	6.8	14.3	* MA CONCRETE AND STEEL

*MA = MODERATELY AGGRESSIVE 1. MG/KG = PPM

NOTES

1. REFER TO THE GEOTECHNICAL REPORT FOR ADDITIONAL INFORMATION AND DESIGN PARAMETERS.
2. FILL MATERIAL STRATA ARE POSSIBLY MIXED WITH IN SITU MATERIALS AT TIMES.
3. EXACT GROUND ELEVATIONS WERE NOT AVAILABLE. THE BORINGS ARE PLOTTED AS THE FUNCTION OF DEPTH, MEASURED FROM THE GROUND LEVEL AT THE RESPECTIVE BORING LOCATION.
4. LONGITUDE AND LATITUDE ARE OBTAINED FROM GOOGLE EARTH FOR LOCATIONS ESTABLISHED BY WHEEL AND TAPE MEASUREMENTS; THEY ARE APPROXIMATE.
5. NA = NOT AVAILABLE
6. N = NUMBERS TO THE LEFT OF THE BORING INDICATE SPT VALUE FOR 12 INCH PENETRATION UNLESS STATED OTHERWISE.
7. GROUND WATER ENCOUNTERED AT THE TIME OF DRILLING.
8. CASING USED
9. AERIAL IMAGE OBTAINED FROM GOOGLE EARTH.

GRANULAR MATERIALS- RELATIVE DENSITY	AUTOMATIC HAMMER SPT N-VALUE (BLOWS/FOOT 300 MM)
VERY LOOSE	LESS THAN 3
LOOSE	3-8
MEDIUM DENSE	8-24
DENSE	24-40
VERY DENSE	GREATER THAN 40
SILTS AND CLAYS CONSISTENCY	AUTOMATIC HAMMER SPT N-VALUE (BLOWS/FOOT 300 MM)
VERY SOFT	LESS THAN 1
SOFT	1-3
FIRM	3-6
STIFF	6-12
VERY STIFF	12-24
HARD	GREATER THAN 24

REVISIONS		HP CONSULTANTS INC. License No. 9509 ARVIND KUMHOKAR, P.E. License No. 41087 10220 SW 107 Street Miami, FL 33176 P: (305) 586-2257	BROWARD COUNTY FLORIDA	PUBLIC WORKS DEPARTMENT HIGHWAY CONSTRUCTION AND ENGINEERING DIVISION			REPORT OF CORE BORINGS	SHEET NO. T-26
DATE	DESCRIPTION			CITY	INTERSECTION	COUNTY PROJECT NO.		
				WILTON MANORS	ANDREWS AVE AND NE 26TH ST	2164		

SUMMARY OF VERIFIED UTILITIES									
Vvh #	UTILITY DESCRIPTION	SIZE	MATERIALS	E and/or C			APPROXIMATE EXISTING GROUND ELEVATION	TOP ELEVATION	COMMENTS
				STATION	OFFSET	LT/RT			
TH-1	WATERMAIN - WILTON MANORS	6"	PVC	11+45.13	39.02'	LT	3.85	0.38	UTILITY VERIFIED
TH-2	WATERMAIN - UNKNOWN	2"	STEEL	11+46.08	42.26'	LT	3.89	1.39	UTILITY VERIFIED
TH-3	FIBER OPTIC CABLE - MCI	2"	PE	11+46.22	46.00'	LT	3.89	0.44	UTILITY VERIFIED
TH-4	IRRIGATION - UNKNOWN	2"	PVC	11+46.07	44.91'	LT	3.90	3.32	UTILITY VERIFIED
TH-5	WATERMAIN - UNKNOWN	2"	STEEL	12+59.59	41.79'	LT	3.79	1.27	UTILITY VERIFIED
TH-6	WATERMAIN - WILTON MANORS	6"	PVC	12+59.80	40.01'	LT	3.77	0.89	UTILITY VERIFIED
TH-7	EXPLORATORY	N/A	N/A	12.59.44	43.02'	LT	3.80	N/A	EXPLORATORY HOLE, PROBED TO A DEPTH OF 9.38. NO UTILITY FOUND
TH-8	FIBER OPTIC CABLE - BROWARD COUNTY	UNKNOWN	PE	12.29.71	45.72'	RT	3.85	0.22	UNABLE TO GET EXACT SIZE DUE TO WATER TABLE. 2" PE IN THE PULL BOX

REVISIONS		JOSHUA REICHERT, P.E. P.E. LICENSE NUMBER 77036 METRIC ENGINEERING, INC. 11760 MARCO BEACH DRIVE, SUITE 1 JACKSONVILLE, FLORIDA 32224		PUBLIC WORKS DEPARTMENT HIGHWAY CONSTRUCTION AND ENGINEERING DIVISION			SUMMARY OF VERIFIED UTILITIES	SHEET NO.
DATE	DESCRIPTION			CITY	INTERSECTION	COUNTY PROJECT NO.		
				WILTON MANORS	ANDREWS AVE AND NE 26TH ST	2164		T-27



B.C.R.	BROWARD COUNTY RECORDS
C	CENTER LINE
CMP	CORRUGATED METAL PIPE
EL.	ELEVATION
ELEC.	ELECTRIC
ID.	IDENTIFICATION
LB.	LEASED BUSINESS
M.D.C.R.	MIAMI-DADE COUNTY RECORDS
O.R.B.	OFFICIAL RECORDS BOOK
P	PLAT
P.B.	PLAT BOOK
PCP	PERMANENT CONTROL POINT
PG.	PAGE
PT.	POINT
PCP	REINFORCED CONCRETE PIPE
TR	TREE NUMBER
TRANS.	TRANSVERSE
TYP.	TYPICAL

BACK FLOW PREVENTER
BENCH
CATCH BASIN
CLEANOUT
CONCRETE LIGHT POLE
CONCRETE PAVEMENT POLE
DOUBLE SUPPORT SIGN
ELECTRIC CABINET
ELECTRIC METER
FIRE DEPARTMENT CONNECTION
FIRE HYDRANT
GROUT INLET
GROUND LIGHT
HANDCAIR
HIGH MAST LIGHT POLE
STORM DRAINAGE MANHOLE
STORM SEWER SIGN
SUPPORT SIGN
TRASH - GARBAGE BIN
UNDER VALVE
WATER VALVE
ELECTRIC VALVE
ELECTRIC WIRE PULL BOX
STREET LIGHT PULL BOX
TRAFFIC WIRE PULL BOX
WATER METER
SLOPE ELEVATION (HARD SURFACE)
SLOPE ELEVATION (SOFT SURFACE)
METAL FENCE
CHAIN LINK FENCE
OVERHEAD WIRE
BREAK IN LINE SCALE

TREE TABLE				
TREE ROW	BOTANIC NAME	TRUNK	DIAMETER	COMMENT
510	SABLE PALM	14"		
511	SABLE PALM	12"		
512	SABLE PALM	10"		
643	DATE PALM	18"		
650	DATE PALM	16"		
711	PLUMERIA	3"		
721	QUEEN PALM	8"		
741	SABLE PALM	8"		
742	SABLE PALM	10"		
743	SABLE PALM	12"		
744	SABLE PALM	12"		
745	SABLE PALM	12"		
945	SOLITARY PALM CLUSTER	4"		
992	SOLITARY PALM CLUSTER	4"		
1096	SOLITARY PALM CLUSTER	4"		
1097	SOLITARY PALM CLUSTER	4"		

1. THE RIGHT OF REVERT PREPARED BY PARAMOUNT TITLE SERVICES, INC., SEARCH NO. 20-8055-10, DATED 06/17/2020.
2. MISCELLANEOUS PLAT OF ANDREWS AVENUE RIGHT-OF-WAY MAP, PLAT BOOK 6, PAGE 34 OF THE PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA.
3. THE PLAT OF REDLAND, PLAT BOOK 7, PAGE 33, OF THE PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA.
4. THE PLAT OF PETITE, PLAT BOOK 18, PAGE 23, OF THE PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA.
5. THE PLAT OF SUN SET MANGROS, PLAT BOOK 28, PAGE 40, OF THE PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA.

1. THIS FIRM HAS IDENTIFIED THE VARIOUS TYPES OF TREES LOCATED ON THIS SITE BASED ON COMMON KNOWLEDGE OF TREE SPECIES. FOR POSITIVE IDENTIFICATION OF TREE SPECIES A SURVEYED LANDSCAPE ARCHITECT OR BOTANIST SHOULD BE CONSULTED. TREES THREE (3) CALLED SPECIES OF LARGO ARE MEASURED AT BRIST HEIGHT; ARE SHOWN ON THE SURVEY DRAWING. HEDGES AND GROUND COVER ARE NOT SHOWN THE SURVEY DRAWING. TREES SUCH AS EUCALYPTUS, CASHEU, BRAZILIAN PEPPER, AND AUSTRALIAN PINE ARE NOT SHOWN ON THE SURVEY DRAWING.
2. EACH TREE LOCATED HAS BEEN TAGGED WITH A NUMBERED TAG THAT CORRESPONDS TO THE TREE LEGEND SHOWN HEREON.
3. CLUSTERS OF TREES ARE SHOWN GROUPED WITH AN APPROXIMATION OF THE TOTAL NUMBER OF TREES LOCATED WITHIN THE GROUP.
4. THE CANOPY DIAMETER AND SPREAD ARE NOT SHOWN HEREON, UNLESS INDICATED

1. THIS SKETCH OF TOPOGRAPHIC AND SPECIFIC PROPERTY (BOUND) SURVEY WAS PREPARED IN ACCORDANCE WITH THE STANDARDS OF PRACTICE FOR SURVEYING ESTABLISHED BY THE BOARD OF PROFESSIONAL SURVEYORS AND MAPPERS IN CHAPTER 50-17, F.S. AND THE FURTHER PRACTICE OF PROFESSIONAL SURVEYING, 12/22/2014.

2. THIS SURVEY IS NOT VALID WITHOUT THE SIGNATURE AND THE ORIGINAL EMBOSSED SEAL OF A FLORIDA LICENSED PROFESSIONAL SURVEYOR AND MAPPER. IF THIS SURVEY HAS BEEN DELIVERED IN PORTABLE DOCUMENT FORMAT (PDF) AND DIGITALLY SIGNED, THE ORIGINAL EMBOSSED SEAL AND SIGNATURE OF THE SURVEYOR MUST BE CONSIDERED VALID. AN IMPRESSION OF THIS SKETCH OF SURVEY DOES NOT REPRESENT A SURVEY OF THE BOUNDARY OR RIGHT OF WAY LINES.

3. A SEARCH OF THE PUBLIC RECORDS FOR OWNERSHIP, EASEMENTS, RIGHTS-OF-WAY, OR OTHER MATTERS OF RECORD WAS NOT CONDUCTED. THE INFORMATION RECORDED IN THE PUBLIC RECORDS THAT IS NOT SHOWN HEREON, FOR FURTHER INFORMATION, CONTACT A QUALIFIED TITLE COMPANY OR CONSULT THE PUBLIC RECORDS IN FLORIDA.

4. THE HORIZONTAL COORDINATES SHOWN HEREON ARE BASED ON THE FLORIDA STATE PLANE COORDINATE SYSTEM (EAST ZONE), NORTH AMERICAN DATUM 1983/2011 ADJUSTMENT (NAD 83/2011). THE COORDINATES FOR EACH CONTROL POINT WERE ESTABLISHED BY UTILIZING A COMBINATION OF GPS OBSERVATIONS AND/OR CONVENTIONAL SURVEY MEASUREMENTS.

5. THE BEARINGS SHOWN HEREON ARE BASED ON N 23.719° 33" E ALONG THE SURVEY CONTROL LINE.

6. THE ELEVATIONS SHOWN HEREON ARE BASED ON AN AMERICAN VERTICAL DATUM OF 1988 (N.A.V.D. 88). F.O.D.: BRASS DISH MARKER, 10.5 FT. IN DIAMETER, 10.5 FT. IN HEIGHT, 10.5 FT. IN LENGTH, 10.5 FT. IN WIDTH, 10.5 FT. IN DEPTH, 10.5 FT. IN C-13 CANAL, 10 FEET NORTH OF SOUTH EDGE OF REFLECTION, THIS MAP, ELEVATION = 7.26'.

7. CERTAIN FEATURES ARE REPRESENTED BY THE SYMBOLS REFLECTED IN THIS MAP. THE LEGEND OF FEATURES MAY HAVE BEEN OBTAINED FROM THE LANDOWNER OR THE SURVEYOR. THE SURVEYOR HAS NOT VERIFIED THE SYMBOLS HAVE BEEN PLOTTED AT THE APPROPRIATE CENTER OF THE FEATURE BASED UPON THE FIELD MEASUREMENTS.

8. THIS SKETCH IS INTENDED TO BE DISPLAYED AT A HORIZONTAL SCALE OF 1" INCH = 30 FEET.

9. THE HORIZONTAL ACCURACY FOR WELL DEFINED IMPROVEMENTS DEPICTED ON THIS SKETCH IS ONE-TENTH (0.1') OF A FOOT, OR BETTER. THE HORIZONTAL ACCURACY FOR UNIMPROVED AREAS OF THE ADJACENT ADJACENT BRIDGE OVER THE C-13 CANAL, 10 FEET NORTH OF SOUTH EDGE OF REFLECTION, THIS MAP, ELEVATION = 7.26'.

10. IRREGULAR, GROUND COVER, AND OTHER LANDSCAPE FEATURES ARE NOT SHOWN HEREON, UNLESS OTHERWISE NOTED.

11. HEDGES, FENCES, SUCH AS SPRINKLERS, ARE NOT SHOWN HEREON.

12. FENCES AND WALL DIMENSIONS ARE APPROXIMATE. THE SURVEYOR DID NOT DETERMINE OWNERSHIP OF FENCES AND WALLS.

13. SUBSURFACE FEATURES ARE NOT SHOWN HEREON. THIS SITE COULD HAVE UNDERGROUND INSTALLATIONS THAT ARE NOT SHOWN HEREON. THE SURVEYOR HAS NOT CONDUCTED A GEOTECHNICAL SURVEY. THE SURVEYOR HAS NOT CONDUCTED A GEOTECHNICAL SURVEY OF THE DISPOSITION OF UTILITIES.

14. THE VERTICAL SHOWN HEREON ARE BASED UPON U.S. SURVEY FEET AND FRACTIONAL PARTS THEREOF.

15. THE SURVEYOR DID NOT INSPECT THIS PROPERTY FOR ENVIRONMENTAL HAZARDS.

16. THE SANITARY SEWER AND STORM DRAINAGE AS-BUILT DATA SHOWN HEREON WAS COLLECTED FOR ENGINEERING DESIGN PURPOSES ONLY. THE AS-BUILT DATA IS LIMITED TO STRUCTURE RIM AND PIPE INVERT ELEVATIONS ONLY. PIPE SIZES AND TYPES ARE NOT SHOWN HEREON. THE SURVEYOR HAS NOT CONDUCTED A GEOTECHNICAL SURVEY. THE SURVEYOR HAS NOT CONDUCTED A GEOTECHNICAL SURVEY OF THE DISPOSITION OF UTILITIES.

17. ENTER THE STRUCTURES, ALL THE MEASUREMENTS AND ELEVATIONS WERE COLLECTED (WITH THE LD OF THE STRUCTURE) USING A TOTAL STATION. THE SURVEYOR HAS NOT CONDUCTED A GEOTECHNICAL SURVEY. THE SURVEYOR HAS NOT CONDUCTED A GEOTECHNICAL SURVEY OF THE DISPOSITION OF UTILITIES.

18. BETWEEN STRUCTURES WERE NOT VISUALLY INSPECTED OR VERIFIED AND THE CONDITION OF PIPING WAS NOT DETERMINED. THE SURVEYOR HAS NOT CONDUCTED A GEOTECHNICAL SURVEY. THE SURVEYOR HAS NOT CONDUCTED A GEOTECHNICAL SURVEY OF THE DISPOSITION OF UTILITIES.

19. THE SURVEYOR HAS NOT CONDUCTED A GEOTECHNICAL SURVEY. THE SURVEYOR HAS NOT CONDUCTED A GEOTECHNICAL SURVEY OF THE DISPOSITION OF UTILITIES.

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69. THE SURVEYOR HAS NOT CONDUCTED A GEOTECHNICAL SURVEY. THE SURVEYOR HAS NOT

METRIC ENGINEERING, INC.

THIS IS TO CERTIFY THAT THIS SKETCH OF TOPOGRAPHIC AND SPECIFIC PURPOSE (TREE) SURVEY WAS MADE UNDER MY RESPONSIBLE CHARGE AND IS ACCURATE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. I FURTHER CERTIFY THAT THIS SKETCH MEETS THE STANDARDS OF PRACTICE, ESTABLISHED BY THE BOARD OF PROFESSIONAL SURVEYORS AND MAPPERS, CHAPTER 5J-17, FLORIDA ADMINISTRATIVE CODES, PURSUANT TO SECTION 472.027, FLORIDA STATUTES.

DATE OF SIGNATURE: 7/7/2020

JAMES D. STONER
PROFESSIONAL SURVEYOR AND MAPPER NO. 4035
STATE OF FLORIDA
STONER AND ASSOCIATES, INC. L.B. 6633
jstoner@stonerassoc.com

100

**ANDREWS AVENUE AND N.E. 26th STREET
INTERSECTION IMPROVEMENTS
2600 N. ANDREWS AVENUE
WILTON MANORS, FLORIDA 33314**

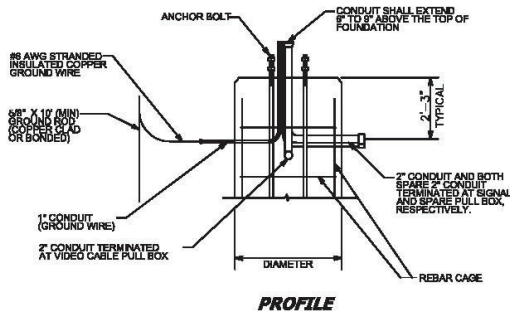
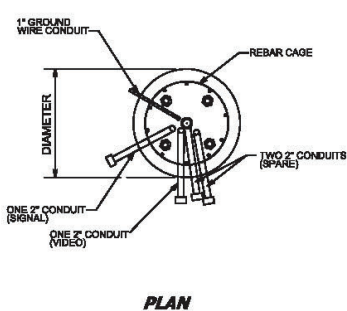
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JAMES D. STONER
PROFESSIONAL SURVEYOR
AND MAPPER NO. 4038
STATE OF FLORIDA

PROJECT

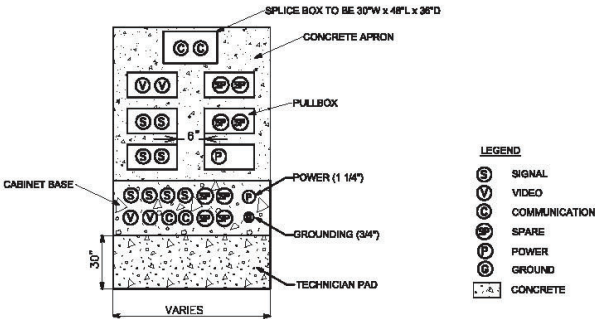
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FOUNDATION CONDUIT DETAIL



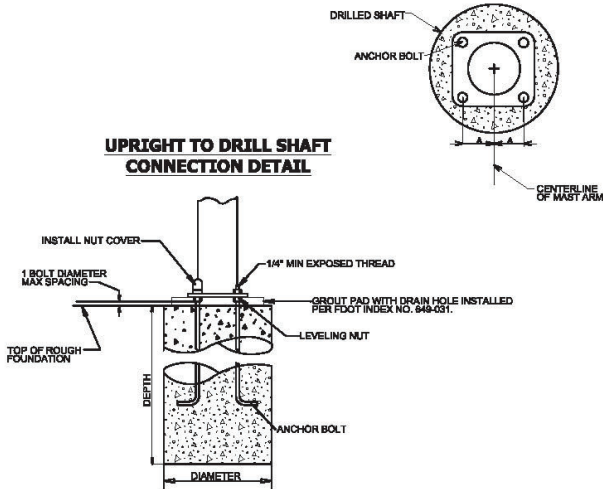
NOTE:
* 3" SIGNAL CONDUIT IS REQUIRED WHEN 2 SIGNAL CABLES ARE BEING RUN IN THE SAME CONDUIT. THIS CONFIGURATION IS ONLY PERMITTED WITH DUAL MAST ARMS.
DIRECTION OF CONDUITS EXITING THE SIDE OF THE FOUNDATION IS SHOWN ONLY TO ILLUSTRATE DIMENSIONS MORE CLEARLY.
DIRECTION/BUNDLES OF CONDUITS EXITING THE SIDE OF THE FOUNDATION COULD VARY FROM WHAT IS SHOWN IN THE DETAILS IN ORDER TO AVOID ANCHOR BOLTS AND REBAR.
WHEN PRE-EMPTION IS REQUIRED, AN ADDITIONAL 2" CONDUIT SHALL BE INSTALLED.

PULL BOX CABINET CONDUIT DETAILS



NOTE:
ALL CONDUIT SHOWN SHALL BE 2" IN DIAMETER, UNLESS OTHERWISE SPECIFIED.

UPRIGHT BASE PLACEMENT
ON DRILLED SHAFT



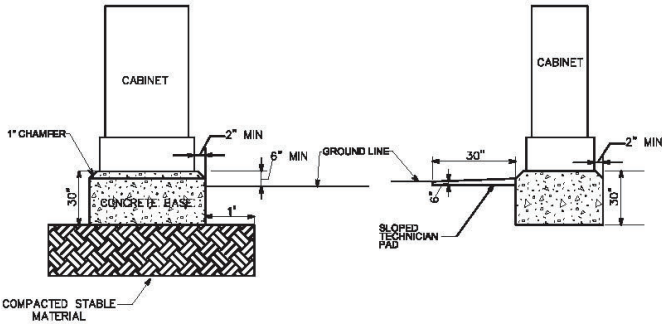
CABINET INSTALLATION NOTES

1. TOP OF CABINET BASE MUST BE AT LEAST 6" ABOVE THE FINISHED GRADE.
2. FOLLOW FDOT INDEX 678-010 FOR ANY ADDITIONAL DETAILS.
3. CABINET BASE SHALL BE OF CLASS 1, 3000 PSI CONCRETE.
4. CONDUITS SHOWN ARE THOSE TO BE INCLUDED FROM PULL BOX TO CABINET.
5. PULL BOXES SHOULD BE AT THE REAR OR SIDE OF THE CABINET. DIFFERENT ORIENTATION WILL BE ALLOWED IF SUFFICIENT RIGHT OF WAY IS UNAVAILABLE.
6. CABINET SHALL BE TS2 TYPE 1 - TYPE VI SIZE. A REDUCED DEPTH TYPE VI CABINET OR APL LISTED ALTERNATIVE MAY BE APPROVED BY TRAFFIC ENGINEERING DIVISION IF THERE IS LIMITED RIGHT OF WAY.
7. CONTRACTOR SHALL COMPACT MATERIAL UNDER CABINET BASE TO 95% AASHTO T-99 DENSITY. COUNTY INSPECTOR MAY TAKE DENSITIES TO CHECK COMPACTION.
8. CONSTRUCT CONCRETE APRON PER FDOT STANDARD INDEX 635-001.
9. CONTROLLER CABINET SHALL BE ORIENTED SUCH THAT CABINET DOOR OPENS AWAY FROM THE INTERSECTION AND SHALL HAVE SUNSHIELDS ON THE TOP AND SOUTH FACES.
10. FINAL LOCATIONS OF ALL CABINETS SHALL BE APPROVED BY ENGINEER PRIOR TO PLACEMENT OF FOUNDATION IF THE LOCATION HAS CHANGED FROM THE PLAN.

DRILLED SHAFT NOTES

1. DRILLED SHAFT CONSTRUCTION SHOULD BE IN ACCORDANCE WITH SECTION 455 OF FDOT SPECIFICATIONS.
2. REFER TO AUGUST 2007 UNION METAL DRAWING 50300-8994 FOR MAST ARM ASSEMBLY CONNECTION DETAILS.
3. SEE FDOT INDEX NO. 646-031 AND MAST ARM ASSEMBLIES SHEET OF CONTRACT PLANS FOR THE REBAR CAGE FOR THE DRILLED SHAFT AND ANY DETAILS NOT SHOWN.
4. COUNTY WILL PERMIT UP TO SIX (6) INCHES OF THE DRILLED SHAFT FOUNDATION TO BE ABOVE EXISTING GRADE. THE DRILLED SHAFT FOUNDATION SHALL BE FLUSH IF IN OR ADJACENT TO SIDEWALK. THE DRILLED SHAFT FOUNDATION DEPTH AND THE LENGTH OF STEEL REINFORCEMENT REBAR WILL BE INCREASED ACCORDINGLY TO MEET INDEX 646-031 AND THE MAST ARM ASSEMBLIES SHEET.
5. DRILLED SHAFT CONCRETE SHALL BE CLASS IV WITH A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 4000 PSI.
6. ORIENT ALL CONDUIT AS REQUIRED TO AVOID ANCHOR BOLTS AND REBAR IN THE FOUNDATION.
7. BOLT PATTERN AND ITS ORIENTATION IS THE RESPONSIBILITY OF THE CONTRACTOR. ANCHOR BOLTS MUST BE SET SO THAT UPRIGHT IS CENTERED ON THE DRILLED SHAFT FOUNDATION.
8. CORRUGATE CASING IS NOT PERMITTED FOR THE CONSTRUCTION OF DRILLED SHAFTS.
9. LEVELING NUTS MUST HAVE BOTTOM WASHERS.

CABINET PAD DETAIL



REVISIONS

DATE	DESCRIPTION
04-21-2016	N/A
08-03-2017	N/A
06-14-2018	UPDATED FDOT INDEX REFERENCE



PUBLIC WORKS DEPARTMENT
TRAFFIC ENGINEERING DIVISION

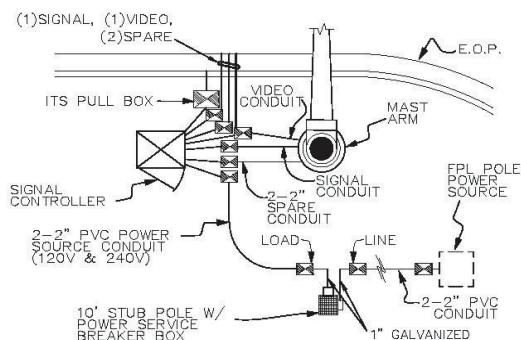
DESIGN BY: REBECCA MARTINEZ, P.E.	SCALE: NTS
DRAWN BY: STEPHON RAMOUTAR	
CHECKED BY: YVES D'ANJOU, P.E.	

DRILLED SHAFT FOUNDATION
AND CABINET DETAILS

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PLAN VIEW

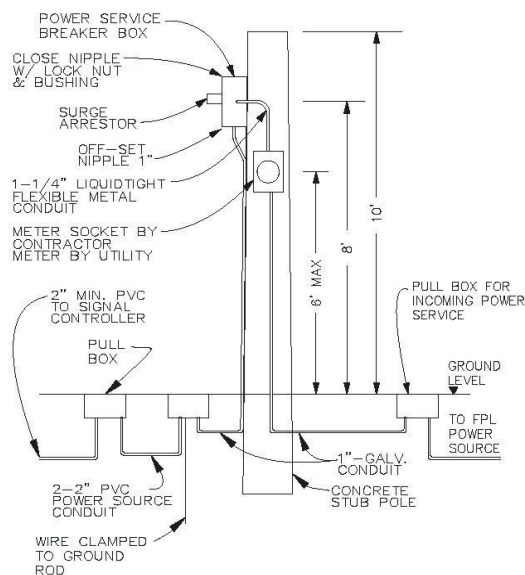


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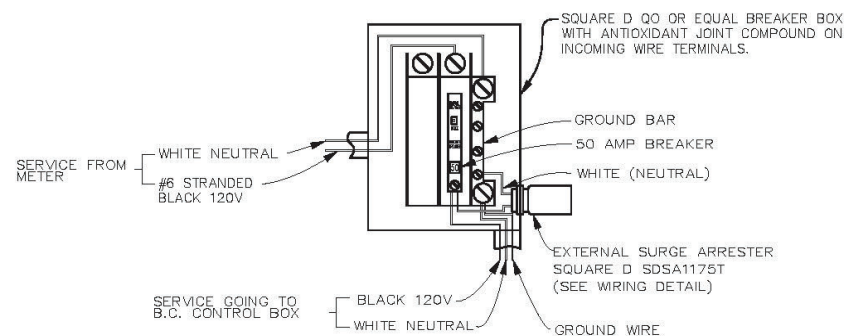
1. LENGTHS OF CONDUIT ARE DETERMINED BY SUBJECT DESIGN.
2. MIN. 6 STANDARD PULL BOXES NEXT TO CONTROLLER.

☒ = PULL BOXES USED

STUB POLE DETAIL



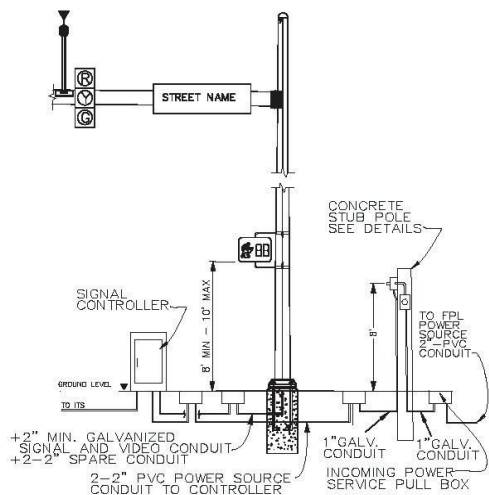
TRIPLEX SERVICE DISCONNECT/BREAKER ASSEMBLY



NOTES:

1. ALL TERMINALS MUST HAVE DIE ELECTRIC GREASE TO PREVENT CORROSION.
2. SURGE ARRESTER SHALL BE WIRED ON THE LOAD SIDE OF THE DISCONNECT.
3. DISCONNECT SHALL USE BREAKERS, NO FUSES OR EXTERNAL SWITCHES PERMITTED.

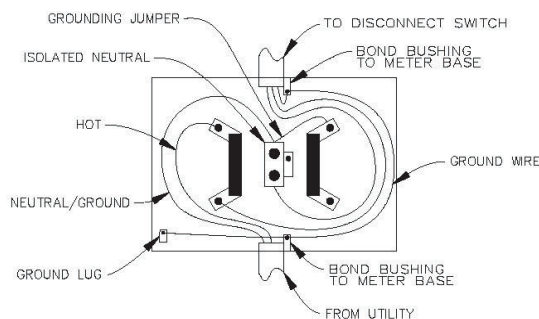
MAST ARM ASSEMBLY



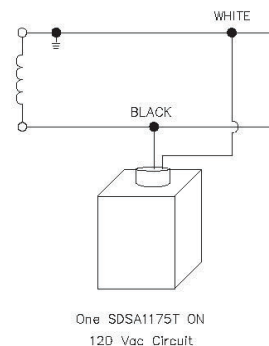
NOTES:

1. GROUND CAN BE BONDED TO SPAN WIRE OR TO 10' MIN. GROUND ROD FROM PULL BOX. (AS SHOWN)
2. NEW INSTALLATIONS REQUIRE COMPLETE HARDWARE AS SHOWN FOR THAT OPTION: INSTALLATION AT EXISTING SIGNALS REQUIRE NEW DEVICE WIRE, SECOND BREAKER, CONDUIT RISER AND OTHER ASSOCIATED HARDWARE FOR A COMPLETE AND OPERATIONAL FINISHED PRODUCT. GROUNDING IS REQUIRED FOR ALL PROJECTS.
3. POWER SERVICE PAY ITEM DOES NOT INCLUDE PULL BOXES.
4. DISCONNECT STUB POLE TO BE LOCATED WITHIN 50' OF POWER SOURCE. IF DISTANCE FROM STUB POLE TO CONTROL CABINET IS GREATER THAN 250', ADD A SECOND STUB POLE AND SERVICE DISCONNECT.
5. MINIMUM CLEARANCE FROM BOTTOM OF NIPPLE TO GROUND LEVEL IS TO BE 8 FEET.
6. METER TO BE ORIENTED ON SIDE OF CONCRETE POLE SO WHEN READING IT YOU ARE FACING ON-COMING TRAFFIC.
7. TERMINATE CONDUITS IN METER SOCKET AND SERVICE DISCONNECT WITH INSULATED GROUNDING BUSHING WITH SOLDERLESS LUG.

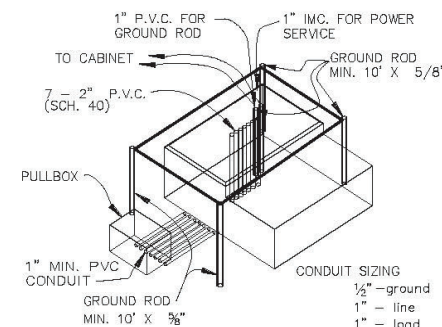
METER SOCKET DETAIL



SURGE ARRESTER WIRING DETAILS



TYPICAL GROUND ROD ARRAY



NOTES:

1. FOUR (4) PERIMETER GROUND RODS SHALL BE BURIED 6" BELOW GROUND LEVEL (BONDED) 10 FT. MIN. LENGTH.
2. ALL DUCTS SHALL BE SEALED WITH PERGUM OR EQUAL SUBSTANCE.

REVISIONS

DATE	DESCRIPTION
02-22-2017	N/A
01-10-2018	UPDATED STREET NAME SIGN LOCATION
07-29-2019	UPDATED NOTES



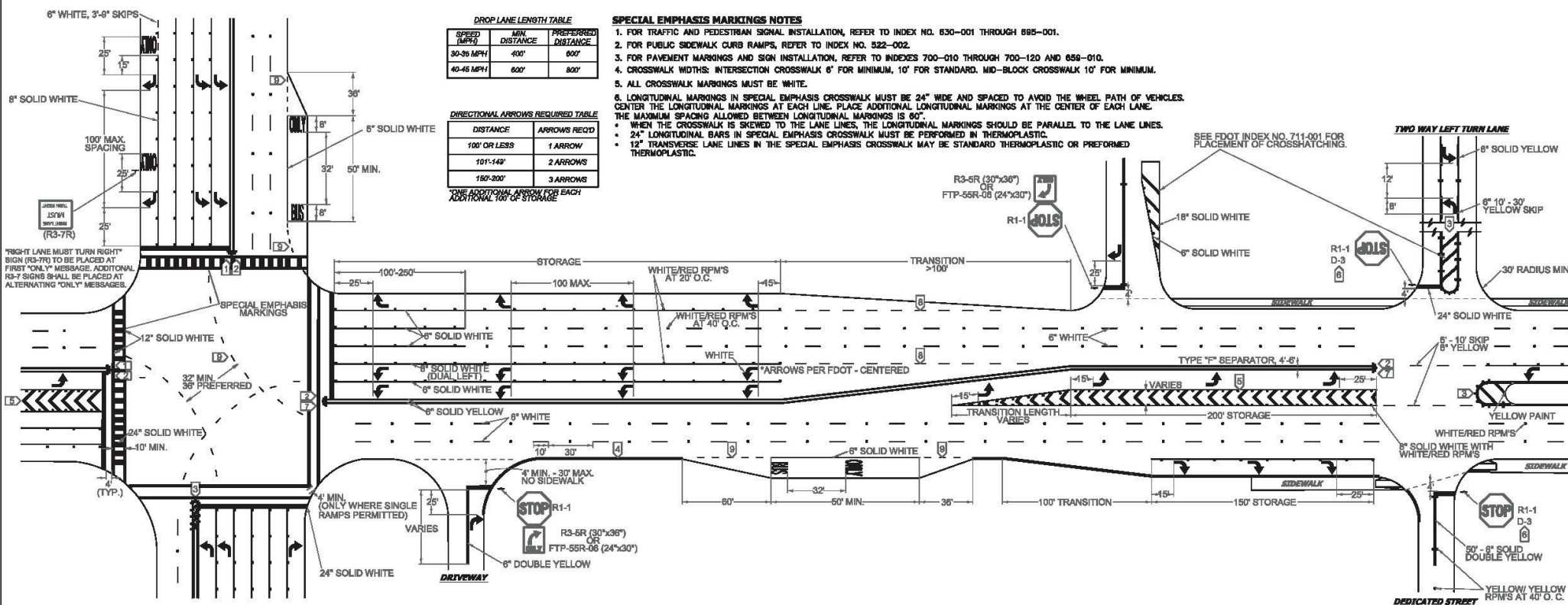
PUBLIC WORKS DEPARTMENT TRAFFIC ENGINEERING DIVISION

DESIGN BY: REBECCA MARTINEZ, P.E.	SCALE: NTS
DRAWN BY: STEPHON RAMOUTAR	
CHECKED BY: YVES D'ANJOU, P.E.	

POWER SERVICE DETAILS

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NO.

T-30



NOTES

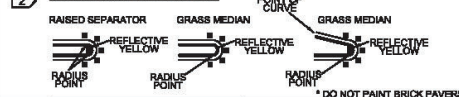
1. ALL PAVEMENT MARKINGS SHALL BE ALKYD BASED THERMOPLASTIC AND FULLY RETROREFLECTORIZED.
2. ALL PAVEMENT MARKINGS ON PAYER SYSTEMS SHALL BE 3M 380/361 SERIES TAPE OR EQUIVALENT AND APPLIED WITH P80 ADHESIVE AS PER MANUFACTURERS SPECIFICATIONS.
3. ALL PAVEMENT MARKINGS AND SIGNING SHALL BE IN ACCORDANCE WITH THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", ICTD STANDARDS, AND FOOT DESIGN STANDARDS.
4. SEE FDOT INDEX NO 706-001 FOR PLACEMENT OF RPM'S (FOR BULLNOSE RPM TREATMENT, SEE LEGEND NO. 1)
5. RPM'S SHALL BE CLASS "B" OR EQUIVALENT, APPLIED WITH EPOXY OR BITUMINOUS ADHESIVE.
6. FDOT APPROVED SEALER SHALL BE USED WHEN APPLYING MARKINGS ON CONCRETE.
7. FOR BIKE LANE DETAILS SEE FDOT INDEX NO. 711-002.
8. MARKINGS IN AND ADJACENT TO BIKE LANES SHALL BE THERMOPLASTIC WITH A MIXTURE OF 50% GLASS SPHERES AND 50% SHARP SILICA SAND APPLIED AT A RATE DETERMINED BY THE MANUFACTURER'S SPECIFICATIONS.
9. EXISTING MARKINGS SHALL BE REMOVED BY WATER BLASTING OR SAND BLASTING.
10. ALL STOP LINES TO BE 4' BEHIND CROSSWALK OR SIDEWALK.
11. PAVEMENT MARKING REFLECTIVITY SHALL BE UNIFORM ACROSS THE ENTIRE STRIPE AND SHALL HAVE A MINIMUM REFLECTIVITY READING OF 250 MILLICANDELES FOR WHITE AND 175 MILLICANDELES FOR YELLOW.
12. ALL PRODUCTS MUST BE ON FDOT'S APPROVED PRODUCTS LIST (APL).
13. RPM'S SHALL NOT BE INSTALLED ADJACENT TO BIKE LANES.

LEGEND

YELLOW/YELLOW RPM DETAILS



MEDIAN NOSE PAINT



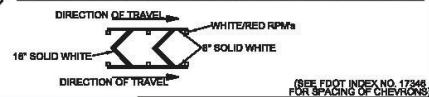
PAINTED MEDIAN DETAILS



EDGE LINE DETAILS



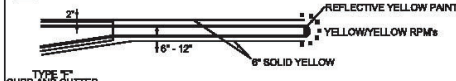
CHEVRON DETAILS - CROSSWALK AREAS AND IN FRONT OF CURB RAMPS



STREET NAME BLADE DETAILS

SEE BCTED STOP SIGN AND STREET IDENTIFICATION ASSEMBLY
TYPICAL DETAILS.

7 TYPE IV SEPARATOR DETAILS



6'-10' SKIP DETAILS

- HORIZONTAL CURVE SECTIONS
- CHANGES IN HORIZONTAL ALIGNMENT
- TRANSITIONS GREATER THAN 100'

2'-4' SKIP DETAILS


- 2-4' SKIPS 8" WHITE SHALL BE USED FOR THE FOLLOWING CONDITIONS:
- RADIUS GUIDE LINES BETWEEN DUAL LEFTS TURN MOVEMENT (90° RA
PREFERRED OR AS NOTED ON PLANS)
 - BUS BAY TRANSITIONS

STOP SIGN NOTE

WHERE SIDE ROADS INTERSECT A MULTI LANE STREET OR HIGHWAY THAT HAS A SPEED LIMIT OF 45 MPH OR HIGHER, THE MINIMUM SIZE OF THE STOP SIGNS FACING THE SIDE ROAD APPROACHES, EVEN IF THE SIDE ROAD ONLY HAS ONE APPROACH LANE, SHALL BE 36"X36".

WHERE SIDE ROADS INTERSECT A MULTI-LANE (INCLUDING TURN LANE) STREET OR HIGHWAY THAT HAS A SPEED LIMIT OF 40 MPH OR LOWER, THE MINIMUM SIZE OF THE STOP SIGN FACING THE SIDE ROAD APPROACHES SHALL BE 36"X36".

REVISIONS	
DATE	DESCRIPTION
01-15-2016	N/A
06-11-2018	UPDATED FDOT INDEX REFERENCE
08-23-2018	UPDATED NOTES



PUBLIC WORKS DEPARTMENT
TRAFFIC ENGINEERING DIVISION

DESIGN BY: CARMELO CARATOZZOLO, P.E.

DESIGN BY: SAMUEL SAVATZKY

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

SCALE: MTS

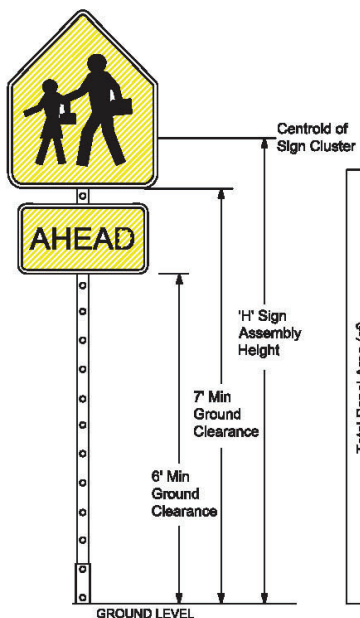
PAVEMENT MARKINGS AND SIGNS DETAILS

SHEET
NO.

T-31

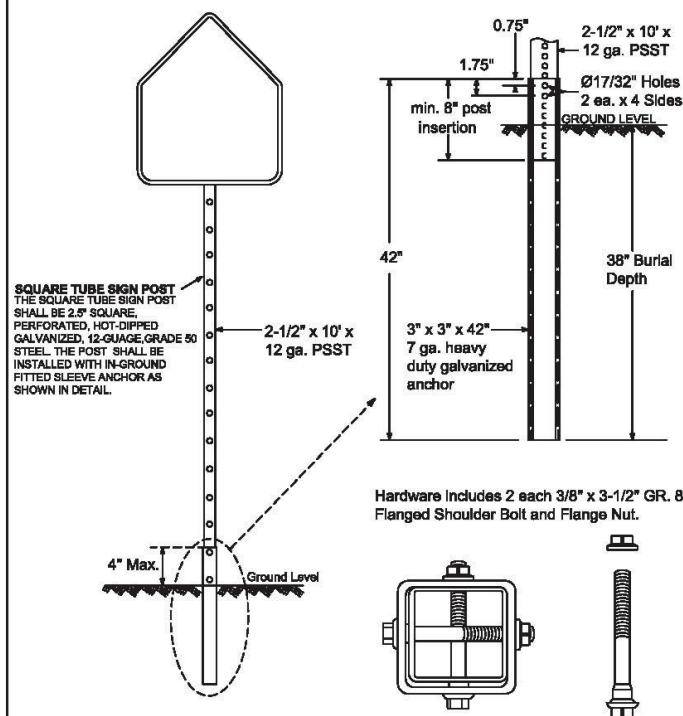
GUIDE TO USE THIS STANDARD:

1. Calculate the Total Panel Area and the centroid 'C' for an individual sign or a sign cluster.
2. Determine the height 'H' from the groundline for the individual sign or the cluster.
3. Consult the Post Size Table and find the intersection point.
4. Design the post and the foundation according to the required Post Size and Assembly Details.

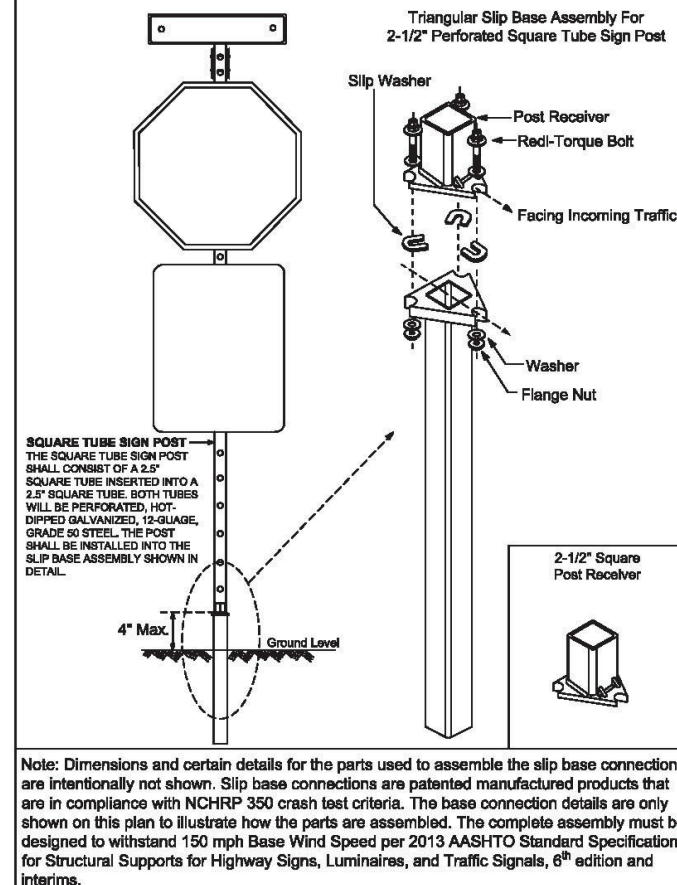


Post Size Table		'H' Sign Assembly Height (ft) (measure from ground)				
		8	8.5	9	9.5	10
Total Panel Area (sf)	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10					
	11					
	12					
	13					
	14					
	15					
	16					
	17					
	18					
	19					
	20+					

Sign Post with 3" x 7 ga. Square Anchor



Sign Post with Triangular Slip Base



REVISIONS

DATE	DESCRIPTION
01-05-2016	N/A
03-21-2017	UPDATED POST SIZE



**PUBLIC WORKS DEPARTMENT
TRAFFIC ENGINEERING DIVISION**

DESIGN BY: YVES D'ANJOU, P.E.	SCALE: NTS
DRAWN BY: STEPHON RAMOUTAR	
CHECKED BY: ANDREW SEBO, P.E., PTOE	

**GROUND SIGN ASSEMBLY
DETAILS**

**SHEET
NO.**

T-32

GENERAL NOTES:

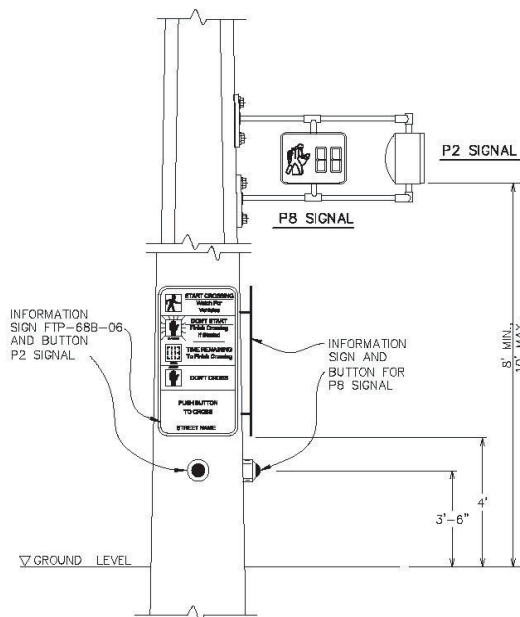
1. SIGNAL CABLE SHALL BE SPLICED TO A SEPARATE 4 CONDUCTOR CABLE FOR EACH PEDESTRIAN INDICATION AND TO A SEPARATE TWO CONDUCTOR BELDEN CABLE FOR EACH DETECTOR PUSH BUTTON, ASSURING SPARE CONDUCTORS FOR FUTURE INDICATION UPGRADES. THESE SPLICES SHALL BE INSTALLED IN EITHER THE HAND-HOLE OF THE STEEL POLE/CONCRETE STRAIN POLE OR WITHIN THE TRANSFORMER BASE OF PEDESTRIAN PEDESTAL.
2. THE COLOR CODE OF SIGNAL CABLE SHALL BE VERIFIED WITH BROWARD COUNTY PRIOR TO WIRING INTERSECTION. A PERMANENT TAG SHALL BE PLACED AT BOTH OF THE WIRE TERMINATIONS DESIGNATING THE PHASE USED. ALL UNUSED SIGNAL WIRES SHALL BE BONDED TO THE POLE GROUND. DETECTOR PUSH BUTTON TWO CONDUCTOR BELDEN CABLE SHALL HAVE SHIELD WIRE BONDED TO THE POLE GROUND.
3. THE OUTSIDE INSULATION JACKET OF ALL SIGNAL CABLES SHALL REMAIN INTACT FROM THE SIGNAL HEADS TO THE FIELD TERMINATION POINTS. UNDER NO CIRCUMSTANCES SHALL UN-JACKETED INDIVIDUAL CONDUCTORS REST IN ANY FIELD DRILLED STRUCTURES OR ASSEMBLIES.
4. ALL SURFACE MOUNTED/ ABOVE GROUND CONDUIT PER THE NEC MUST BE GROUNDED.
5. USE EITHER A SOLID OR STRANDED NO. 6 AWG COPPER INSULATED (GREEN) CONDUCTOR FOR ALL APPLICATIONS. MAKE ALL BONDS BETWEEN GROUND WIRES AND GROUND ELECTRODES ASSEMBLIES EXTERNALLY.
6. ALL APL PRODUCTS MUST BE SUBMITTED AND APPROVED BY THE EOR AND PLACED IN THE SUBMITTAL PACKAGE PRIOR TO INSTALLATIONS

REMOTE ADA COMPLIANT PEDESTRIAN SIGNAL MODIFICATION ON EXISTING CONCRETE STRAIN POLES:

1. CONTRACTOR SHALL DIRECTIONAL BORE 1 RUN OF NEW CONDUIT AND NEW SIGNAL CABLE TO BE RUN FROM REMOTE PEDESTRIAN SIGNAL TO CABINET.
2. IF GIVEN PRIOR APPROVAL BY THE COUNTY, THE CONTRACTOR SHALL INSTALL A SURFACE MOUNT 2" GALVANIZED RIGID CONDUIT, COMPLETE WITH 2" WEATHERHEAD, ORIGINATING FROM A PULLBOX AT THE BASE OF THE STRAIN POLE TO A POINT ADJACENT TO THE EXISTING STRAIN POLE WEATHERHEAD (MINIMUM 30" IN HEIGHT). NEW SIGNAL CABLE SHALL BE INSTALLED FROM THE REMOTE PEDESTRIAN PEDESTAL TO THE HAND HOLD OF THE STRAIN POLE. SPLICES SHALL BE MADE IN THE STRAIN POLE HAND HOLE BY APPROVED WEATHER-PROOF METHODS. ALL INSTALLATIONS MUST BE ON THE BACKSIDE OF THE EXISTING CONCRETE POLE TO AVOID TRAFFIC AND ADA HAZARDS. A MINIMUM OF ONE (1) GALVANIZED STRAP EVERY 5' WILL BE USED TO SECURELY ATTACH THE RIGID GALVANIZED CONDUIT TO THE EXISTING CONCRETE POLE. ALL FLOATING TERMINATIONS WILL BE INSIDE THE POLE AND WEATHER APPROVED. ADDITIONALLY THE INSTALLATION MUST:
• NOT COVER THE HANDHOLE
• MUST CLEAR THE STEEL IN THE STRAIN POLE

DETECTORS:

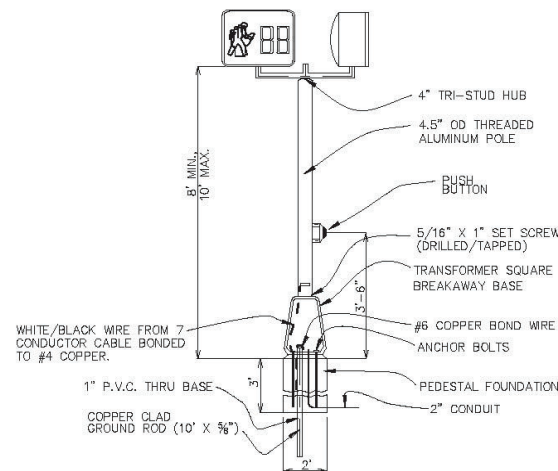
1. ACCESSIBLE PEDESTRIAN PUSH BUTTONS (APB) SHALL BE INSTALLED AT ALL NEW OR REBUILT INTERSECTIONS AND SIGNALIZED PEDESTRIAN CROSSINGS IN BROWARD COUNTY.
2. INSTALL APB BUTTONS WHEN REPLACING EXISTING AUDIBLE DETECTORS. CONTRACTORS SHALL RETURN EXISTING EQUIPMENT TO BCTED.
3. PEDESTRIAN PUSH BUTTONS SHALL INCLUDE MUTCD PEDESTRIAN SIGN FTP-688-06 FOR EACH BUTTON, PAYMENT FOR PED SIGN IS INCLUDED IN THE PRICE FOR THE PEDESTRIAN DETECTOR.
4. PUSH BUTTONS AND SIGNS ARE TO BE MOUNTED IN ACCORDANCE WITH FDOT STANDARD SPECIFICATIONS, SECTION 665 AND DESIGN STANDARD 665-001.
5. CONTACT THE ENGINEER BEFORE PROCEEDING IF ALL ADA REQUIREMENTS CANNOT BE MET REGARDING THE PLACEMENT AND ACCESSIBILITY OF BUTTONS.
6. ALL NEWLY INSTALLED APB BUTTONS SHALL BE CAPABLE OF EMITTING BOTH TONES AND SPEECH MESSAGES. SPEECH MESSAGES SHALL IDENTIFY THE NAME OF THE STREET TO BE CROSSED AND INDICATE FOR THE PED TO WAIT AND INDICATES WHEN THE WALK INTERVAL IS ACTIVE AND REPEATS DURING THE DURATION OF THE WALK INTERVAL. EXAMPLE WAIT AND WALK SPEECH MESSAGES IS "WAIT TO CROSS PINE ISLAND RD AT BROWARD BLVD, WAIT" AND "PINE ISLAND RD, WALK SIGN IS ON TO CROSS PINE ISLAND RD".
7. ACTUAL USE OF TONES OR SPEECH MESSAGE IS DEPENDED ON THE FINAL LOCATION OF THE APB BUTTON; HOWEVER, ALL INSTALLED APB BUTTONS MUST BE CAPABLE OF BOTH TONES AND APPROPRIATE SPEECH MESSAGES.
8. THE INSTALLATION OF APB BUTTONS SHALL COMPLY WITH SECTIONS 4E.08 THROUGH 4E.13 OF THE MUTCD, 2009 AND THE DRAFT PUBLIC RIGHTS-OF-WAY ACCESSIBILITY GUIDELINES (PROWAG), 2011.



ON CONCRETE STRAIN POLE OR MAST ARM UPRIGHT



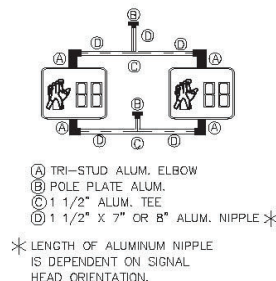
- (A) ONE SECTION LED
(B) DIMENSIONS = 16"X18"
(C) DEFAULT MODE = HAND ONLY
(D) FULLY MEETS ITE PED SPEC
(E) TURN-ON/TURN-OFF TIME FOR HAND/PERSON = 75MSEC MAX.



ON PEDESTAL AND PEDESTAL STATION/DETECTOR STATION

NOTE:

1. BOND PED FIXTURE TO GROUND ROD, PEDESTAL MOUNT AND POST.
2. ALL PEDESTALS SHALL BE PROVIDED WITH ALUMINUM BREAKAWAY TRANSFORMER TYPE BASES.



* LENGTH OF ALUMINUM NIPPLE IS DEPENDENT ON SIGNAL HEAD ORIENTATION.

REVISIONS

DATE	DESCRIPTION
03-12-2018	N/A
06-13-2018	UPDATED FDOT INDEX REFERENCE



PUBLIC WORKS DEPARTMENT TRAFFIC ENGINEERING DIVISION

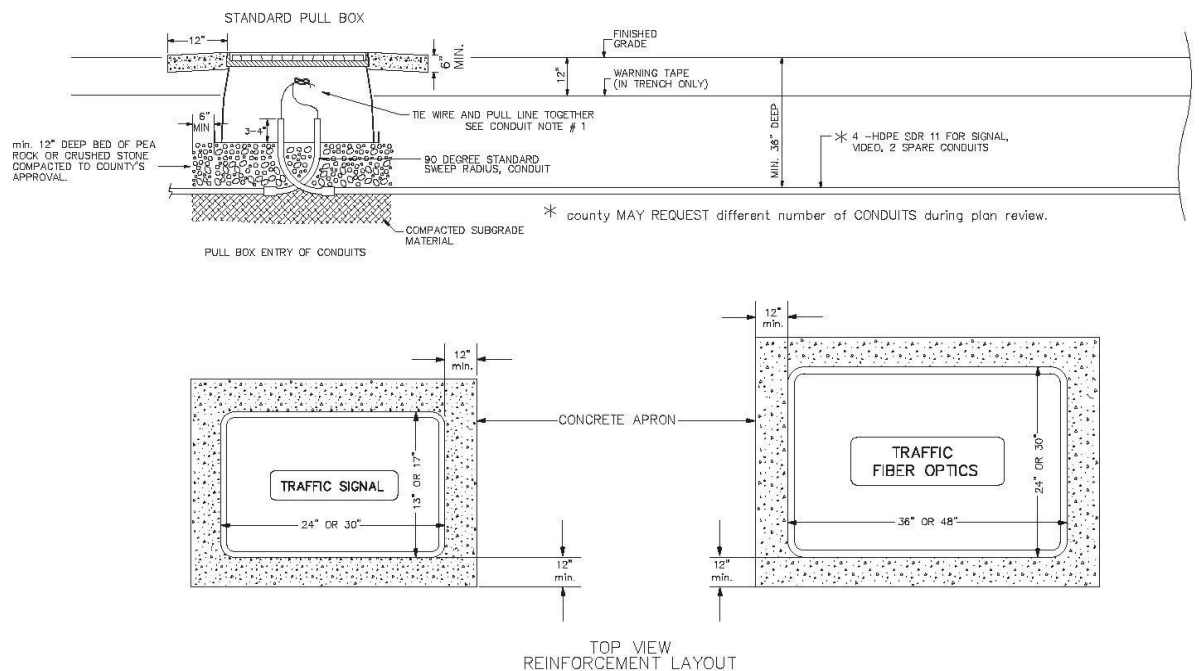
DESIGN BY: REBECCA MARTINEZ, P.E.
DRAWN BY: STEPHON RAMOUTAR
CHECKED BY: YVES D'ANJOU, P.E.

SCALE: NTS

PEDESTRIAN SIGNAL AND DETECTOR INSTALLATION DETAILS

SHEET
NO.

T-33



STANDARD PULL BOX NOTES:

1. FOR APPLICATIONS NOT COVERED IN THIS STANDARD DETAIL THE CONTRACTOR SHALL REFER TO SECTIONS 630 AND 635 OF THE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
2. PULL BOXES SHALL HAVE AN OPEN BOTTOM. PULL BOX MATERIAL SHALL BE HEAVY DUTY COMPOSITE REINFORCED POLYMER CONCRETE WITH A MINIMUM ANSI TIER 22 RATING COVER STAMPED; TRAFFIC SIGNAL, TWO BOLTS, NON METAL.
3. ALL PULL BOXES SHALL BE PROVIDED WITH CONCRETE APRONS WHEN NOT LOCATED WITHIN SIDEWALK. APRON SHALL BE FLUSHED WITH FINISHED GRADE AND 3,000 PSI STRUCTURAL CLASS 1 CONCRETE. THE COST OF THE APRON IS TO BE INCLUDED IN THE COST OF FURNISH AND INSTALL PULL BOX.
4. PULL BOX SHALL NOT BE PLACED IN PEDESTRIAN RAMPS. PULL BOXES SHALL NOT BE LOCATED AT THE BOTTOM OF ANY DITCH OR RETENTION AREA/POND OR ANY OTHER LOW-LYING LOCATION WITH POOR DRAINAGE. PULL BOXES INSTALLED ALONG A SLOPED SURFACE SHALL MATCH THE SLOPE OF THE EXISTING SURFACE OUTSIDE OF LIMITS OF CURB RAMP.
5. PULL BOXES SHALL BE PLACED 4' FROM FACE OF CURB. IF THERE IS NO CURB, THEN PULL BOXES SHALL BE PLACED AT LEAST 10' FROM THE EDGE OF PAVEMENT.
6. WHEN PULL BOXES ARE INSTALLED IN EXISTING SIDEWALKS, THE ENTIRE FLAG OF SIDEWALK WILL BE RELOCATED. THIS COST IS INCLUDED IN THE PULL BOX PRICE.
7. WHEN TRENCHING, INSTALL WARNING TAPE, 3" WIDE MARKED "CAUTION TRAFFIC SIGNAL CABLE BURIED BELOW", 1' FROM FINISHED GRADE.
8. MAXIMUM NUMBER OF CONDUIT INTO PULL BOX SHALL BE 6.

FIBER OPTIC PULL BOXES:

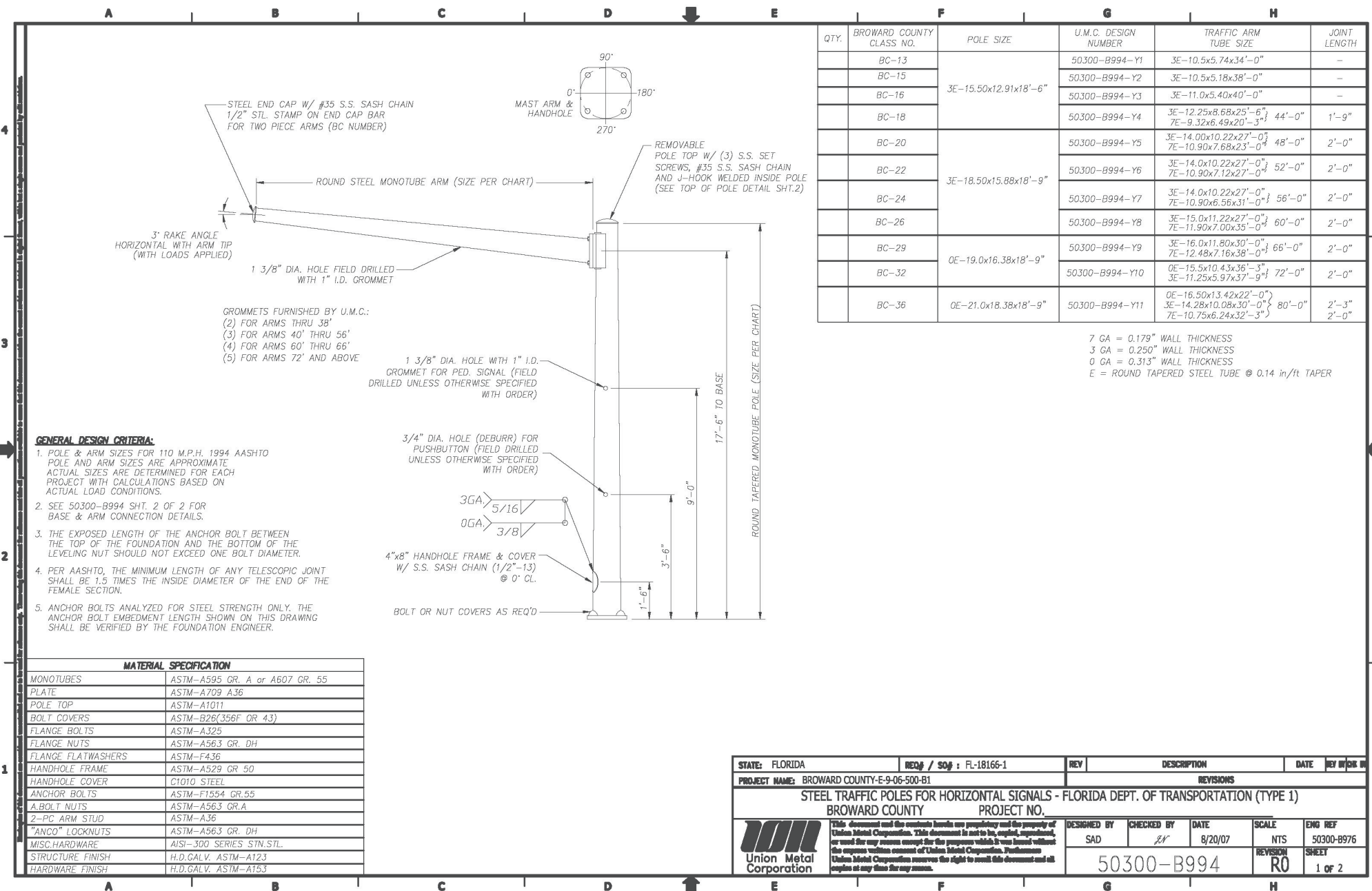
1. SHALL BE SPACED AT A DISTANCE OF 1000 FEET +/- 50 FEET OR AT A DISTANCE AGREED BY THE COMMUNICATIONS MANAGER.
2. SHALL BE A MINIMUM OF 10' FROM CURB RADIUS AND DRIVEWAY ENTRANCES, RIGHT-OF-WAY PERMITTING.
3. SHALL BE "HEAVY DUTY", NON-METALLIC, OF POLYMER MATERIAL, WITH AN OPEN BOTTOM AND RATED FOR A STATIC DESIGN LOAD OF AT LEAST 22,000 LBS. OVER A 10" SQUARE AREA.
4. COVER (LID) SHALL BE HEAVY DUTY WITH A MINIMUM ANSI TIER 22 RATING, OF POLYMER MATERIAL AND SHALL BE FLUSH SEATED.

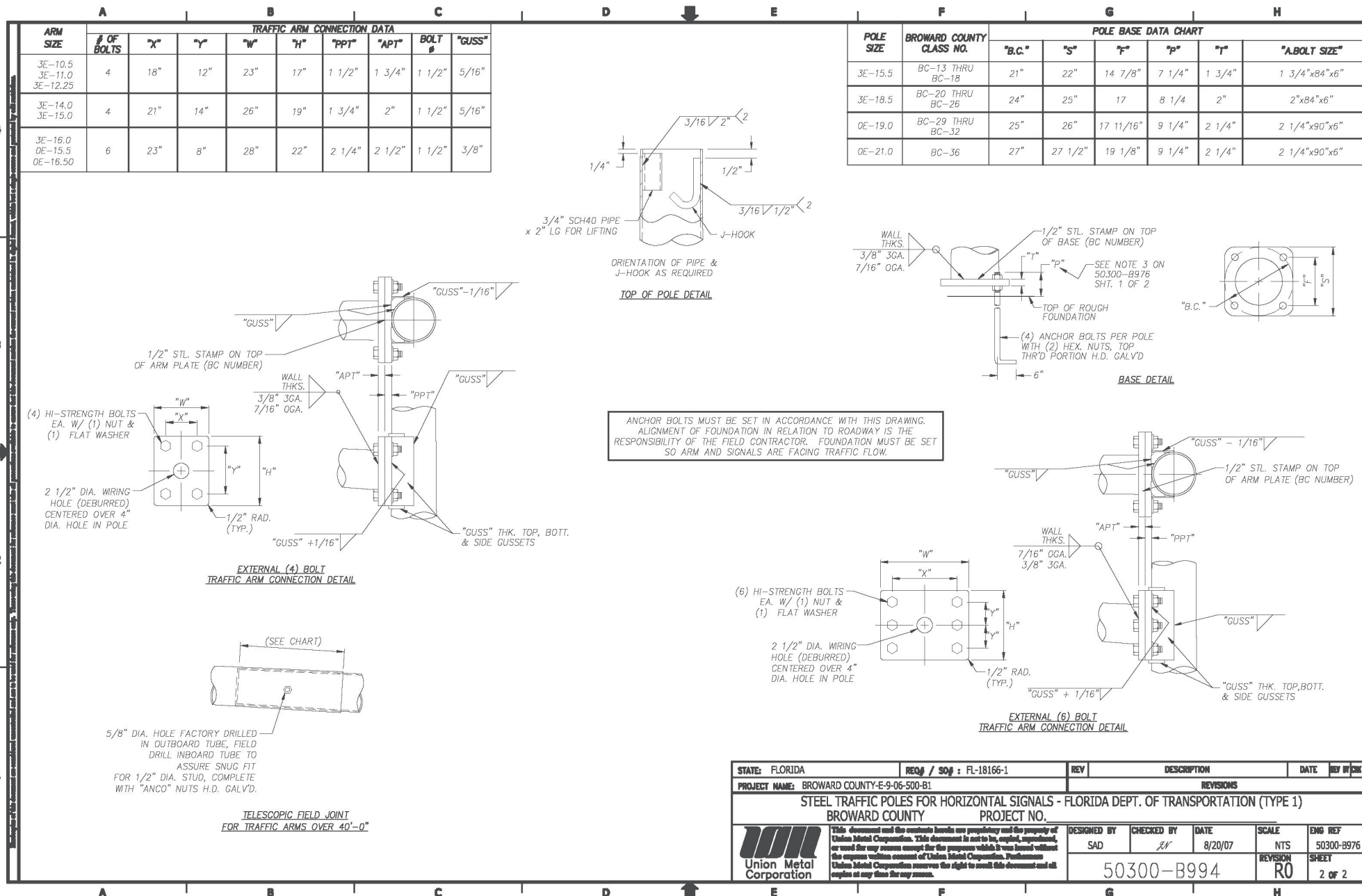
CONDUIT NOTES:

1. ENDS OF CONDUIT SHALL BE SEALED WITH THE DUCT SEAL. ALL CONDUIT MATERIALS SHALL BE IN ACCORDANCE WITH SECTION 630-2 OF THE FDOT MINIMUM SPECIFICATIONS FOR TRAFFIC CONTROL SIGNAL DEVICES (MSTCSD).
2. DO NOT PLACE MORE THAN THE EQUIVALENT OF THREE QUARTER BENDS OR 270 DEGREES OF BENDS, INCLUDING THE TERMINATION BENDS, BETWEEN THE TWO POINTS OF TERMINATION IN THE CONDUIT, WITHOUT A PULL BOX.
3. INSTALL A 12 AWG PULL WIRE IN ONE SPARE CONDUIT AND A GREEN/BLUE #4435 1/2" WOVEN POLYESTER MULE TAPE® OR EQUIVALENT IN THE OTHER SPARE CONDUIT(S), AS APPROVED BY THE EOR. ALL UNDERGROUND CONDUITS SHALL BE HDPE SDR 11 OR PVC SCHEDULE 40, GRAY ELECTRICAL GRADE, EXCEPT FOR FIBER OPTIC CONDUIT WHICH SHALL BE ORANGE, OR AS INDICATED IN THE PLANS.
4. EACH SIGNAL CONDUIT SHALL BE A MINIMUM 2" IN DIAMETER AND MEET NEC REQUIREMENTS.
5. ALL REFERENCES IN THE PLAN TO RIGID CONDUIT SHALL BE INSTALLED AS GALVANIZED STEEL METAL CONDUIT.

REVISIONS		PUBLIC WORKS DEPARTMENT TRAFFIC ENGINEERING DIVISION		TYPICAL SIGNAL PULL BOX AND CONDUIT DETAILS	SHEET NO.
DATE	DESCRIPTION				
11-02-2016	N/A	DESIGN BY: REBECCA MARTINEZ, P.E	SCALE: NTS		T-34
		DRAWN BY: STEPHON RAMOUTAR			
		CHECKED BY: YVES D'ANJOU, P.E			







STATE: FLORIDA	REQ / SO# : FL-18166-1	REV	DESCRIPTION	DATE	REV BY/CHK BY
PROJECT NAME: BROWARD COUNTY-E-9-06-500-B1					
STEEL TRAFFIC POLES FOR HORIZONTAL SIGNALS - FLORIDA DEPT. OF TRANSPORTATION (TYPE 1)					
BROWARD COUNTY PROJECT NO.					
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	DESIGNED BY	CHECKED BY	DATE	SCALE	ENG REF
	SAD	SL	8/20/07	NTS	50300-B976
50300-B994				REVISION	SHEET
				R0	2 OF 2