

Utility Assessment Memorandum

Florida Department of Transportation

District Seven

CR 52/Meridian Avenue/21st Street/Suwanee Way/St. Joe Road

Pasco County, Florida

Financial Management Number: 439832-5-32-01

ETDM Number: N/A

Date: August 2024

The environmental review, consultation, and other actions required by applicable federal environmental laws for this project are being, or have been, carried out by the Florida Department of Transportation (FDOT) pursuant to 23 U.S.C. § 327 and a Memorandum of Understanding dated May 26, 2022 and executed by the Federal Highway Administration and FDOT.

CR 52/MERIDIAN AVENUE/21ST STREET/SUWANEE WAY/ST. JOE ROAD

439832-5-32-01

Utility Assessment Memorandum

To evaluate potential surface and subsurface utility conflicts associated with the proposed alternatives, a list of utility owners within the project corridor was developed. The list is composed of those utility owners known to operate, or with plans to operate, utilities within the project corridor.

The utility owners include:

Utility	Type of Facility
CenturyLink (Lumen)	Telecommunications
City of Dade City	Water and Wastewater
Duke Energy	Overhead Transmission Lines
Pasco County Traffic Operations	Signals
Charter Communications (Spectrum)	Overhead and Buried Fiber Optics
Tampa Electric Company	Buried and Overhead Distribution Lines

Each utility owner was contacted to verify ownership or operation of any utilities, existing or proposed, within the study corridor. The owners were provided with aerial photography depicting the project corridor and were asked to indicate their existing and proposed utilities. Project green lines showing the type and location of the utilities are contained in Appendix A.

Appendix A: Utility Coordination

Mike Hammer

From: Dingman, Leslie <Leslie.Dingman@lumen.com>
Sent: Tuesday, March 26, 2024 11:59 AM
To: Mike Hammer
Cc: Xie, Charlie; Williams, Winston; Vincent Shine
Subject: NO LEVEL 3 FACILITIES: 439832-5 // CR 52 Intersection Improvement - Phase I UAO Submittal

CAUTION: [EXTERNAL] This Email Originated From Outside The Organization. Do Not Click Links or Open Attachments Unless You Recognize The Sender And Know The Content Is Safe.

Date: 03/26/2024
Attn: Mike Hammer

Important Notice – Centurylink Communications, LLC and Level 3 Communications, LLC have rebranded and are now Lumen.

Thank you for your project notification. We have reviewed your utility notice dated 03/25/2024 regarding the CR 52/MERIDIAN AVENUE/21ST STREET/SUWANNEE WAY/ST. JOE ROAD ("Project"). In response to your inquiry please see below.

Centurylink/Level 3 does not have facilities within your proposed construction area.

Please contact your [State One Call](#) prior to construction service (click link for state specific requirements).

Any changes or additions to the project plans or parameters should be submitted to relocations@lumen.com. Note: the location(s) of facilities shown on drawings you receive from us, are only approximate. We hereby disclaim any responsibility for the accuracy of this information. Please reference the file number **P-537097 Central FL** with any future communications.

Thank you for your cooperation!

Leslie Dingman
Business Analyst
Network Relocations

****We have combined!!** To better serve everyone, there is now a single email inbox. Please add relocations@lumen.com to your contacts list for inquiries, updates, and use it for all future notifications. **

From: Mike Hammer <mhammer@elementeg.com>
Sent: Monday, March 25, 2024 1:10 PM
To: relocations <relocations@centurylink.com>; jkemp@dadecityfl.com; jwarrenfeltz@dadecityfl.com; vvattikuti@pascocountyfl.net; william.walker1@charter.com; dl-fl-pas-construction@charter.com; CSAdmin

<C7@tecoenergy.com>

Cc: Xie, Charlie <Charlie.Xie@dot.state.fl.us>; Williams, Winston <winston.williams@dot.state.fl.us>; Vincent Shine <VShine@kcaeng.com>

Subject: 439832-5 // CR 52 Intersection Improvement - Phase I UAO Submittal

Importance: High

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Good afternoon everyone,

This email is to serve as follow up to the submittal made via FDOT's PSEE system. With this submittal, FDOT is requesting green line depiction to verify ownership of facilities collected from a recent project as well as any newly installed or retired-in-place facilities. This submittal also begins the FDOT's 30-day review period for any UAO research or field verification needed to provide the green line response. The 30-day review period expires on Friday, April 19th making responses due also.

If you have any questions, please feel free to contact me directly.

1. CenturyLink
2. Dade City
3. Pasco County Traffic
4. Spectrum
5. Tampa Electric

Mike Hammer | Sr. Utility Coordinator



ELEMENT ENGINEERING GROUP, LLC
8509 BENJAMIN RD. SUITE E | TAMPA, FL 33634
O: 813.852.1888 | F: 813-386-2106

MHAMMER@ELEMENTEG.COM | WWW.ELEMENTEG.COM

TRANSPORTATION | CIVIL | UTILITY COORDINATION

SURVEYING & MAPPING

SUBSURFACE UTILITY ENGINEERING

CERTIFIED MBE | DBE

From: DoNotReply-FDOTApps@dot.state.fl.us <DoNotReply-FDOTApps@dot.state.fl.us>

Sent: Monday, March 25, 2024 1:26 PM

Subject: PSEE: Project: 439832-5 Activity: Create Plan Entry By: Mike Hammer (KNOMNMH)

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Click to see the referenced [Project](#) in PSEE

If you are not on the DOT Network, click to see the referenced [Project](#) in PSEE

Project: 439832-5

Project Description: CR 52/MERIDIAN AVENUE/21ST STREET/SUWANNEE WAY/ST. JOE ROAD

Plan

Plan Phase: PHASE I INITIAL

Sequence:

Plan Action: For Review And Markup

Utility Project Manager: Williams, Winston

Utility Coordinator: Hammer, Mike

Created On: 3/25/2024 1:26:19 PM

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CONTRACT PLANS COMPONENTS
ROADWAY

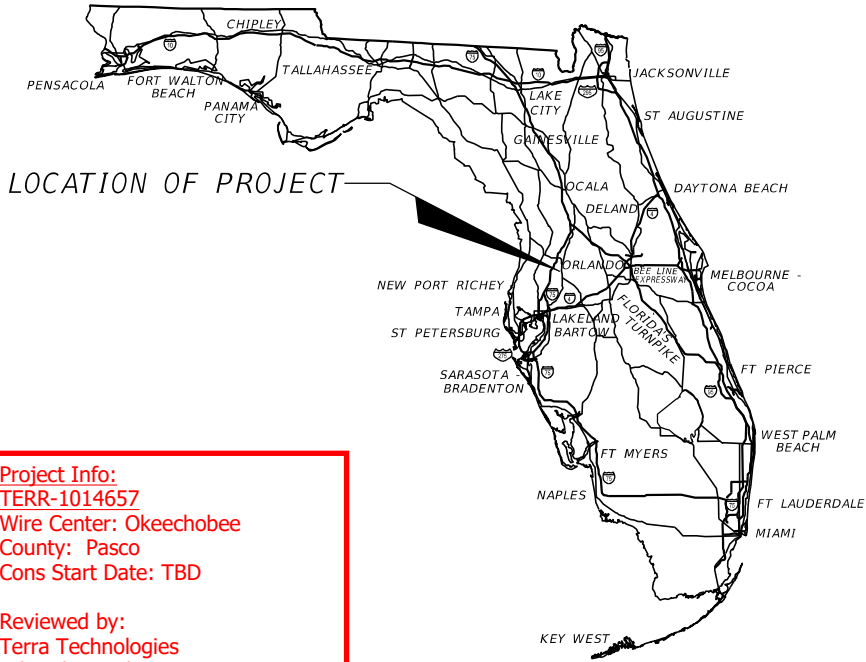
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROADWAY PLANS

FINANCIAL PROJECT ID 439832-5-52-01
PASCO COUNTY (14120)
COUNTY ROAD NO. 52

CR 52/MERIDIAN AVENUE/21ST STREET/SUWANNEE WAY/ST. JOE ROAD
ADD LANES AND RECONSTRUCT FROM CHURCH AVENUE TO SUWANNEE WAY

PROJECT LOCATION URL:	https://tinyurl.com/5n8p9ha4
PROJECT LIMITS:	BEGIN MP 32.128 TO END MP 32.290
EXCEPTIONS:	NONE
BRIDGE LIMITS:	NONE
RAILROAD CROSSING:	NONE



Project Info:
TERR-1014657
Wire Center: Okeechobee
County: Pasco
Cons Start Date: TBD

Reviewed by:
Terra Technologies
John Plamondon 352-425-4444
jplamondon@congruex.com

Contact:
Lumen Engineer
Kurt Judd
Kurt.E.Judd@lumen.com

Project:
COUNTY ROAD NO. 52
CR 52/MERIDIAN AVENUE/21ST STREET/SUWANNEE WAY/ST. JOE ROAD.
ADD LANES AND RECONSTRUCT FROM CHURCH AVENUE TO SUWANNEE WAY

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#	GENERAL NOTES
#	ROADWAY PLAN
#	ROADWAY PROFILES
#	CROSS SECTIONS
#	UTILITY ADJUSTMENTS

GOVERNING STANDARD PLANS:

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APPLICABLE IRs: N/A

Standard Plans for Bridge Construction are included in the Structures Plans Component

GOVERNING STANDARD SPECIFICATIONS:

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RGB Legend

RED (Exist; to be Removed or Placed Out of Service)	
GREEN (Exist; to Remain)	
DARK GREEN (Out of Service)	
CYAN (Exist conduit, CANNOT be removed or adjusted)	
BROWN (Proposed to be placed)	
BLUE (Proposed changes to Agency Plans)	

ROADWAY PLANS
ENGINEER OF RECORD:

VINCENT E. SHINE, P.E.
P.E. LICENSE NUMBER 67387
KISINGER CAMPO & ASSOCIATES CORP.
201 N. FRANKLIN STREET, SUITE 400
TAMPA, FLORIDA 33602
(813) 871-5331
CONTRACT NO.: CAM21
VENDOR NO.: 59-1677145

FDOT PROJECT MANAGER:

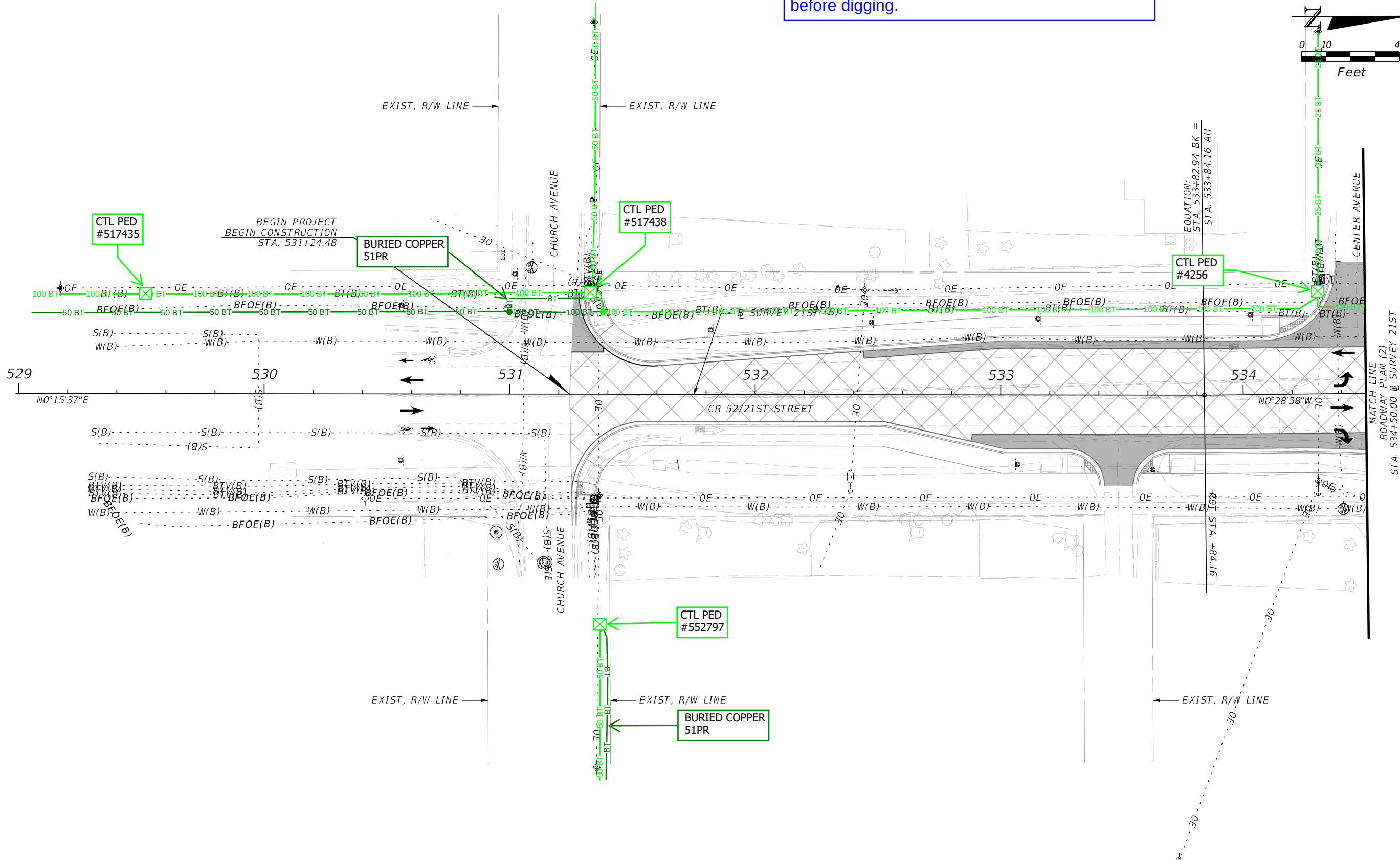
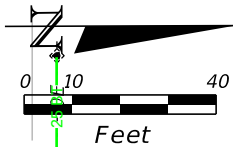
MARY LOU GODFREY, P.E.

GEC PROJECT MANAGER:

CHARLIE XIE, P.E.

CONSTRUCTION CONTRACT NO.	FISCAL YEAR	SHEET NO.
TBD	24	1

All CenturyLink facilities (peds, MH, cable and fiber optic) locations are approximate. From "Level D records only". Call 811 for locates before digging.

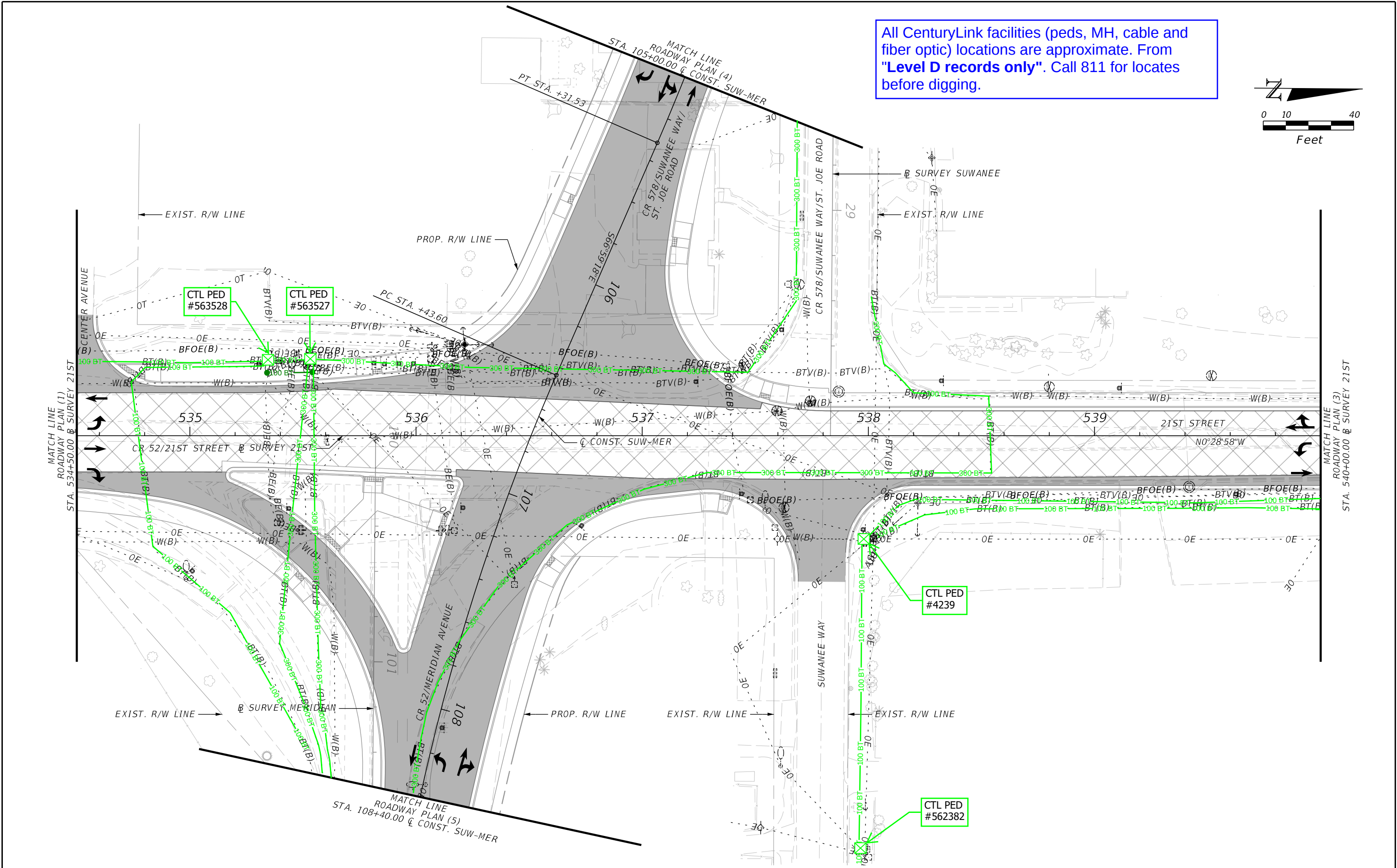


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REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			UTILITY ADJUSTMENTS (1)	SHEET NO. X
DATE	DESCRIPTION	DATE	DESCRIPTION	VINCENT E. SHINE, P.E. LICENSE NUMBER: 67387 KISINGER CAMPO & ASSOCIATES CORP. 201 N. FRANKLIN STREET, SUITE 400 TAMPA, FL 33602		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
						CR 52	PASCO	439832-5-52-01		

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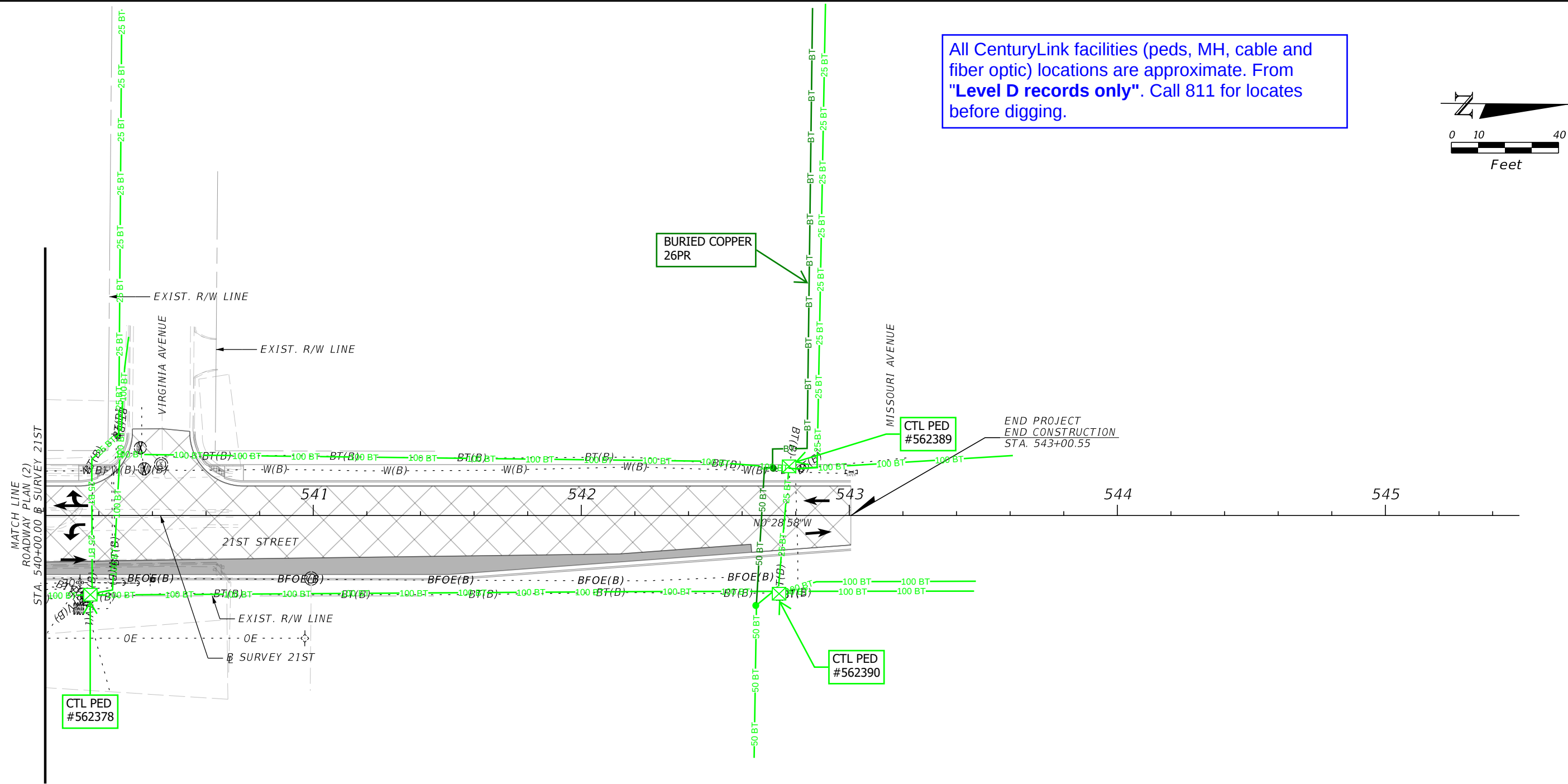
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DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					CR 52	PASCO	439832-5-52-01		

VINCENT E. SHINE, P.E.
LICENSE NUMBER: 67387
KISINGER CAMPO & ASSOCIATES CORP.
201 N. FRANKLIN STREET, SUITE 400
TAMPA, FL 33602

UTILITY ADJUSTMENTS (2)

X

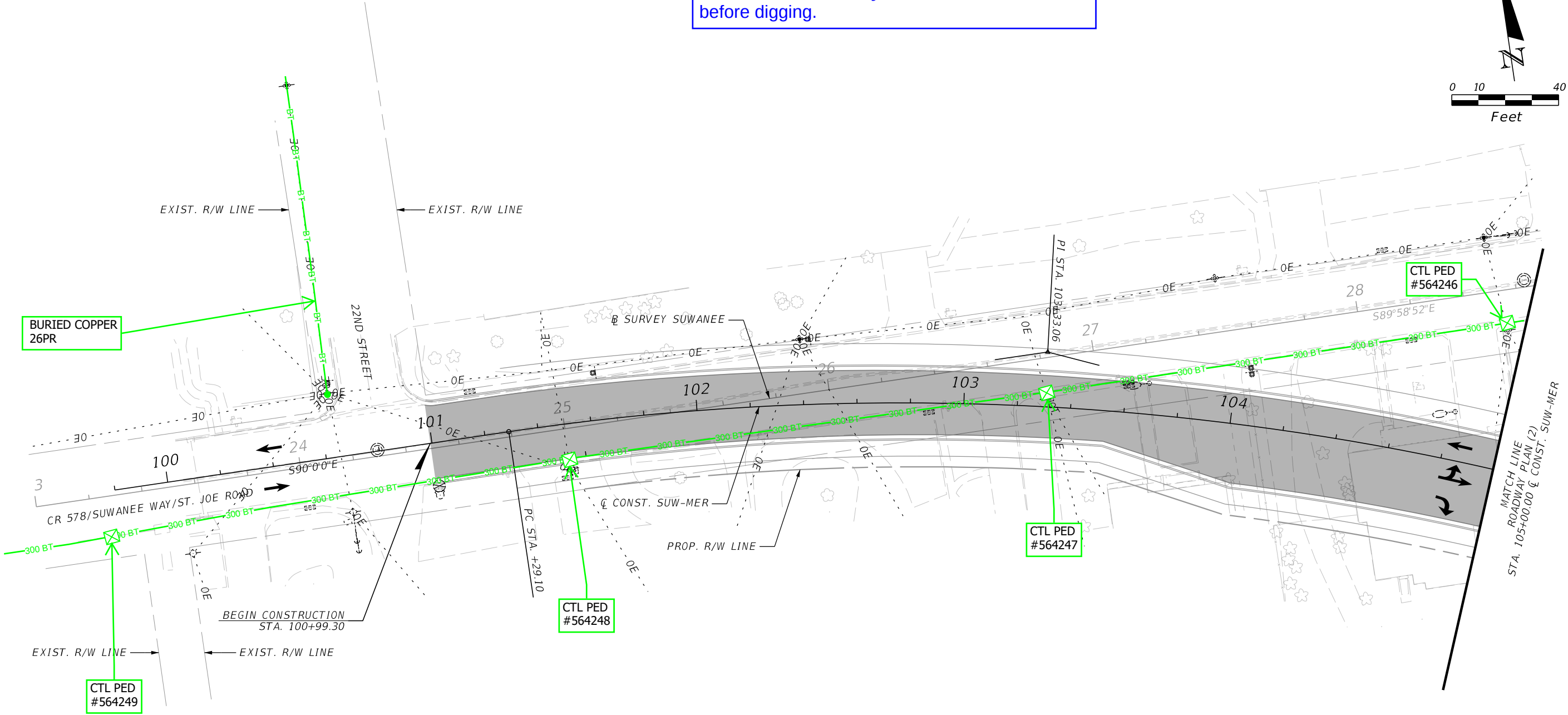
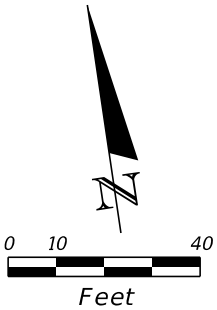
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						CR 52	PASCO	439832-5-52-01		X

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All CenturyLink facilities (peds, MH, cable and fiber optic) locations are approximate. From "Level D records only". Call 811 for locates before digging.



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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ENGINEER OF RECORD
VINCENT E. SHINE, P.E.
LICENSE NUMBER: 67387
KISINGER CAMPO & ASSOCIATES CORP.
201 N. FRANKLIN STREET, SUITE 400
TAMPA, FL 33602

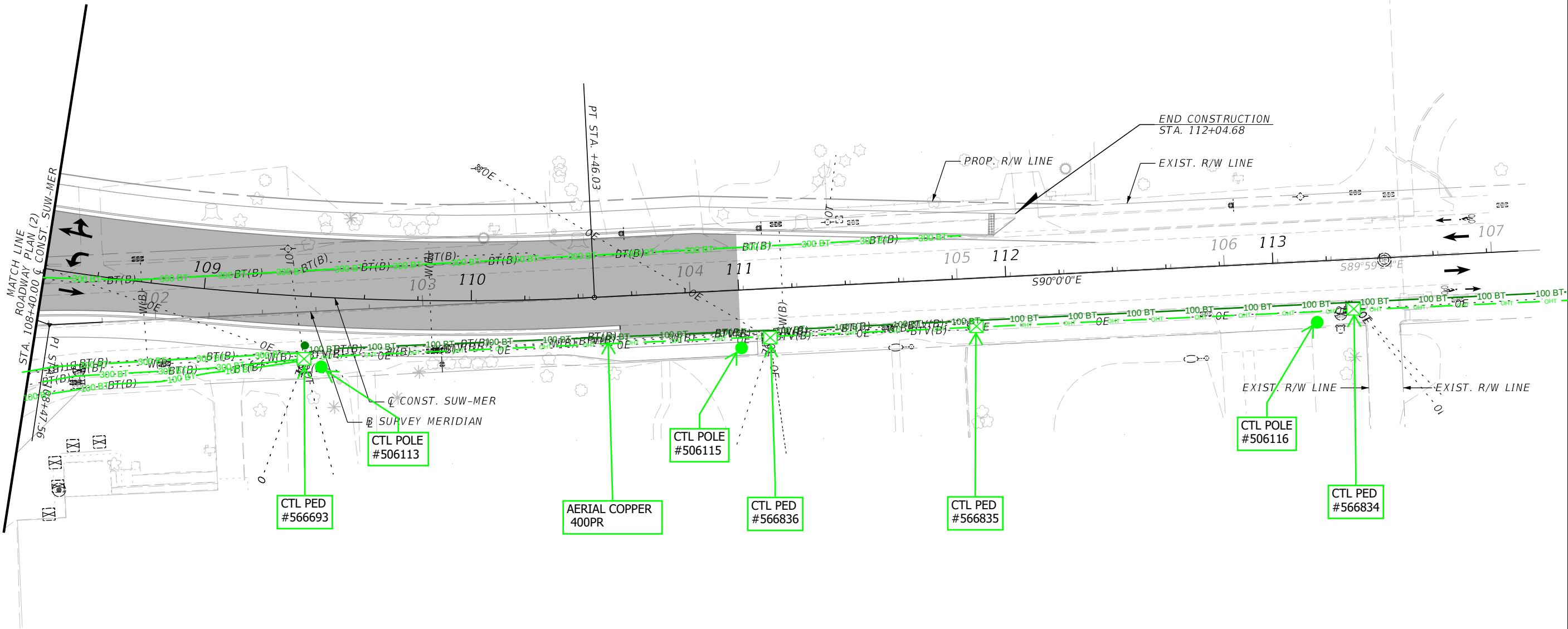
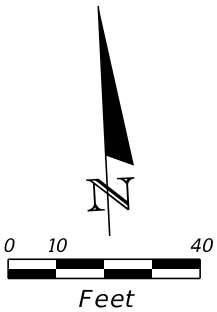
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
CR 52	PASCO	439832-5-52-01

UTILITY ADJUSTMENTS (4)	

SHEET NO.
X

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REVISIONS				ENGINEER OF RECORD	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			UTILITY ADJUSTMENTS (5)	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	VINCENT E. SHINE, P.E. LICENSE NUMBER: 67387 KISINGER CAMPO & ASSOCIATES CORP. 201 N. FRANKLIN STREET, SUITE 400 TAMPA, FL 33602	ROAD NO.	COUNTY	FINANCIAL PROJECT ID		X
					CR 52	PASCO	439832-5-52-01		

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CONTRACT PLANS COMPONENTS
ROADWAY

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROADWAY PLANS

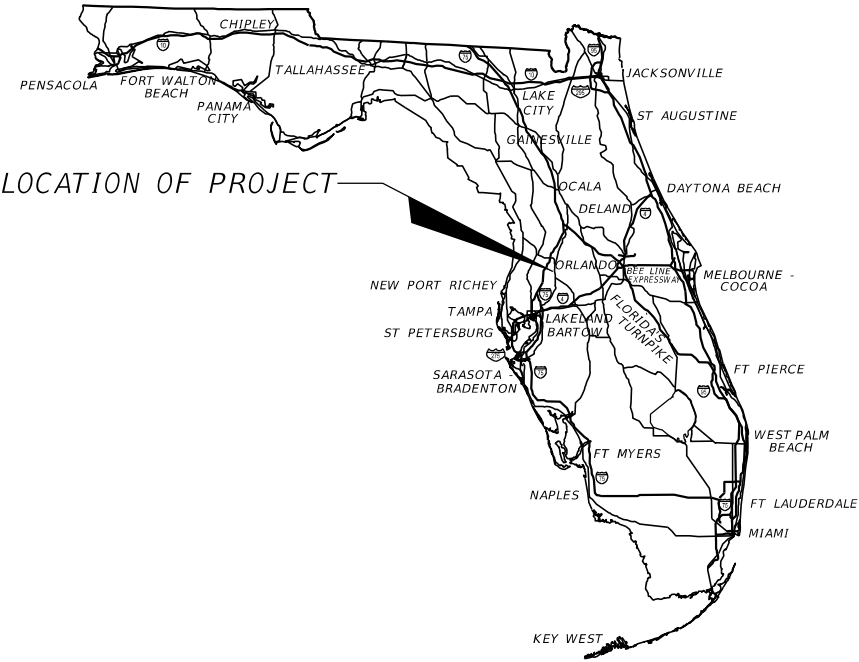
FINANCIAL PROJECT ID 439832-5-52-01
PASCO COUNTY (14120)
COUNTY ROAD NO. 52

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CR 52/MERIDIAN AVENUE/21ST STREET/SUWANNEE WAY/ST. JOE ROAD
ADD LANES AND RECONSTRUCT FROM CHURCH AVENUE TO SUWANNEE WAY

PROJECT LOCATION URL:	https://tinyurl.com/5n8p9ha4
PROJECT LIMITS:	BEGIN MP 32.128 TO END MP 32.290
EXCEPTIONS:	NONE
BRIDGE LIMITS:	NONE
RAILROAD CROSSING:	NONE



GOVERNING STANDARD PLANS:
Florida Department of Transportation, FY2023-24 Standard Plans for Road and Bridge Construction and applicable Interim Revisions (IRs).

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APPLICABLE IRs: N/A

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City of Dade City
Confirmation of Existing Utilities
5-14-24
Source of Data is best available mapping

ROADWAY PLANS
ENGINEER OF RECORD:

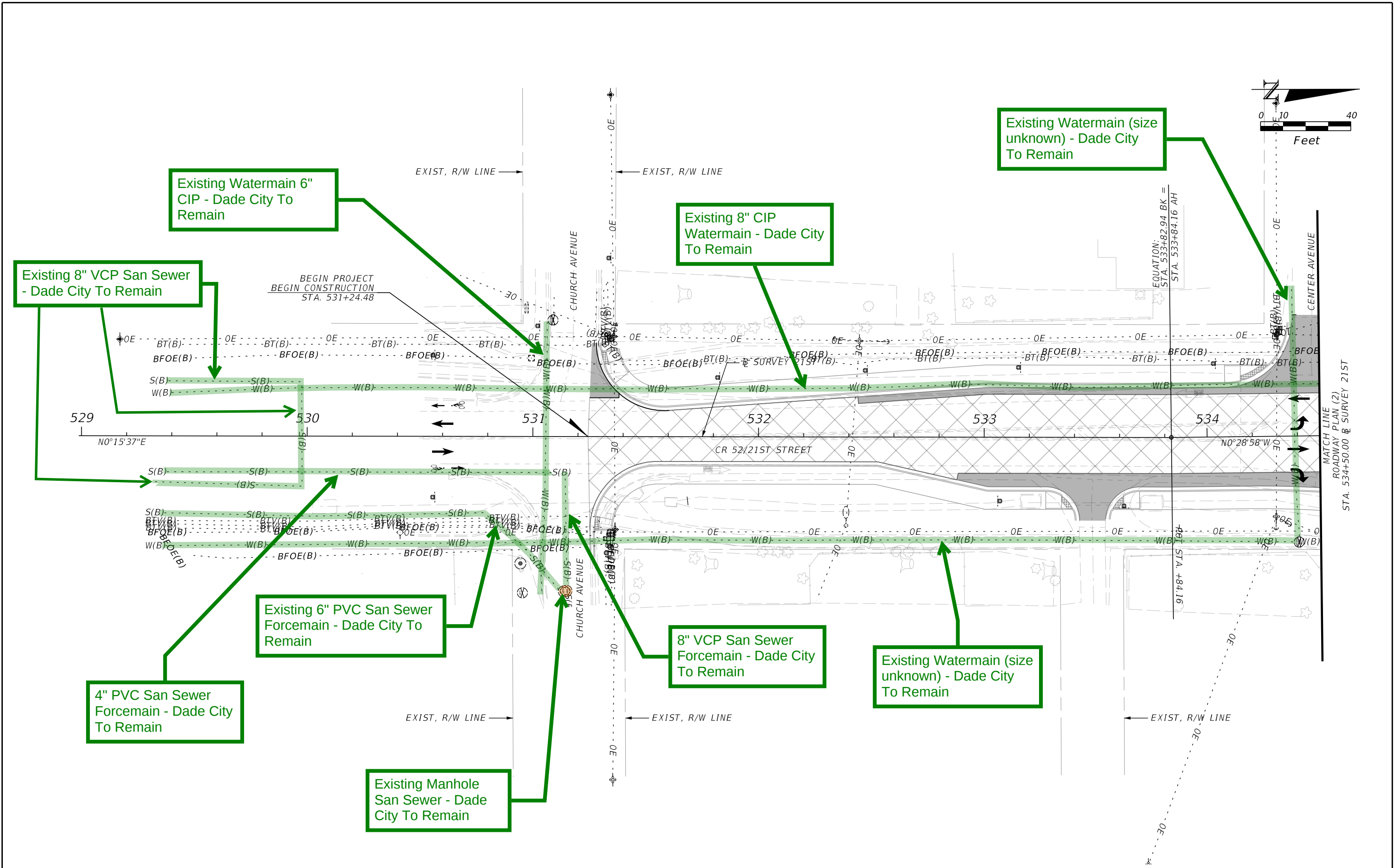
VINCENT E. SHINE, P.E.
P.E. LICENSE NUMBER 67387
KISINGER CAMPO & ASSOCIATES CORP.
201 N. FRANKLIN STREET, SUITE 400
TAMPA, FLORIDA 33602
(813) 871-5331
CONTRACT NO.: CAM21
VENDOR NO.: 59-1677145

FDOT PROJECT MANAGER:
MARY LOU GODFREY, P.E.

GEC PROJECT MANAGER:
CHARLIE XIE, P.E.

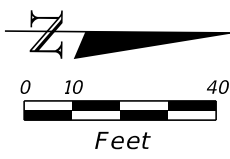
CONSTRUCTION CONTRACT NO.	FISCAL YEAR	SHEET NO.
TBD	24	1

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REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			UTILITY ADJUSTMENTS (1)	SHEET NO. X
DATE	DESCRIPTION	DATE	DESCRIPTION	VINCENT E. SHINE, P.E. LICENSE NUMBER: 67387 KISINGER CAMPO & ASSOCIATES CORP. 201 N. FRANKLIN STREET, SUITE 400 TAMPA, FL 33602		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
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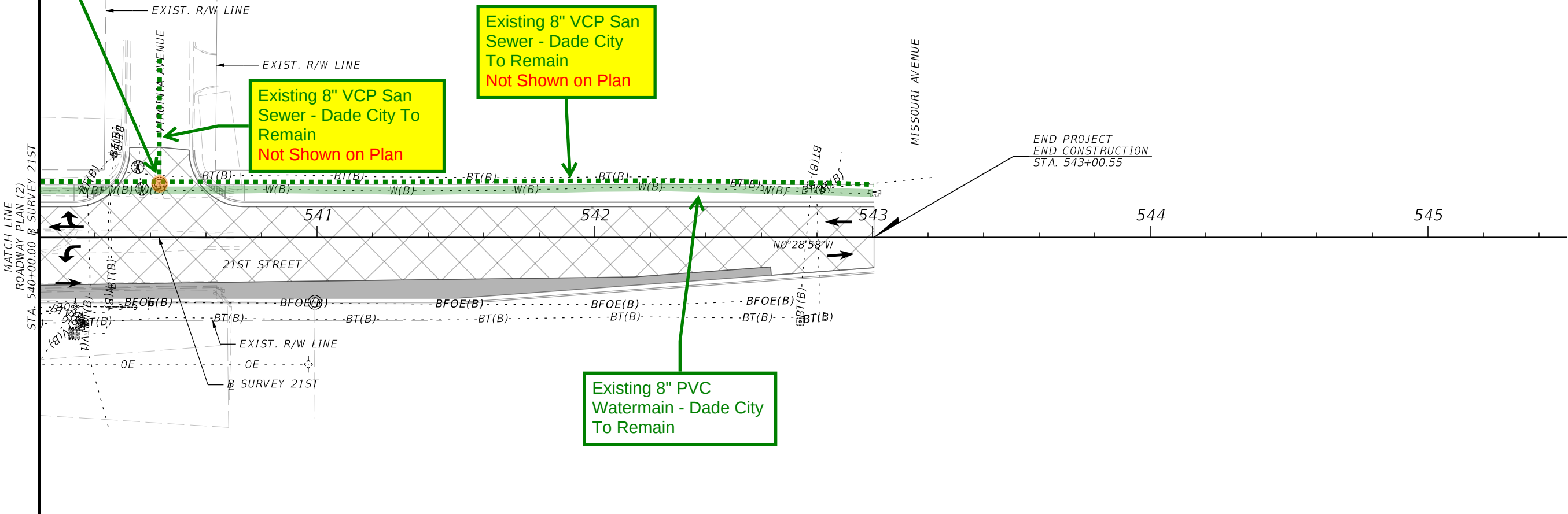


Existing Manhole San
Sewer - Dade City To
Remain

Existing 8" VCP San
Sewer - Dade City To
Remain
Not Shown on Plan

Existing 8" VCP San
Sewer - Dade City
To Remain
Not Shown on Plan

Existing 8" PVC
Watermain - Dade City
To Remain

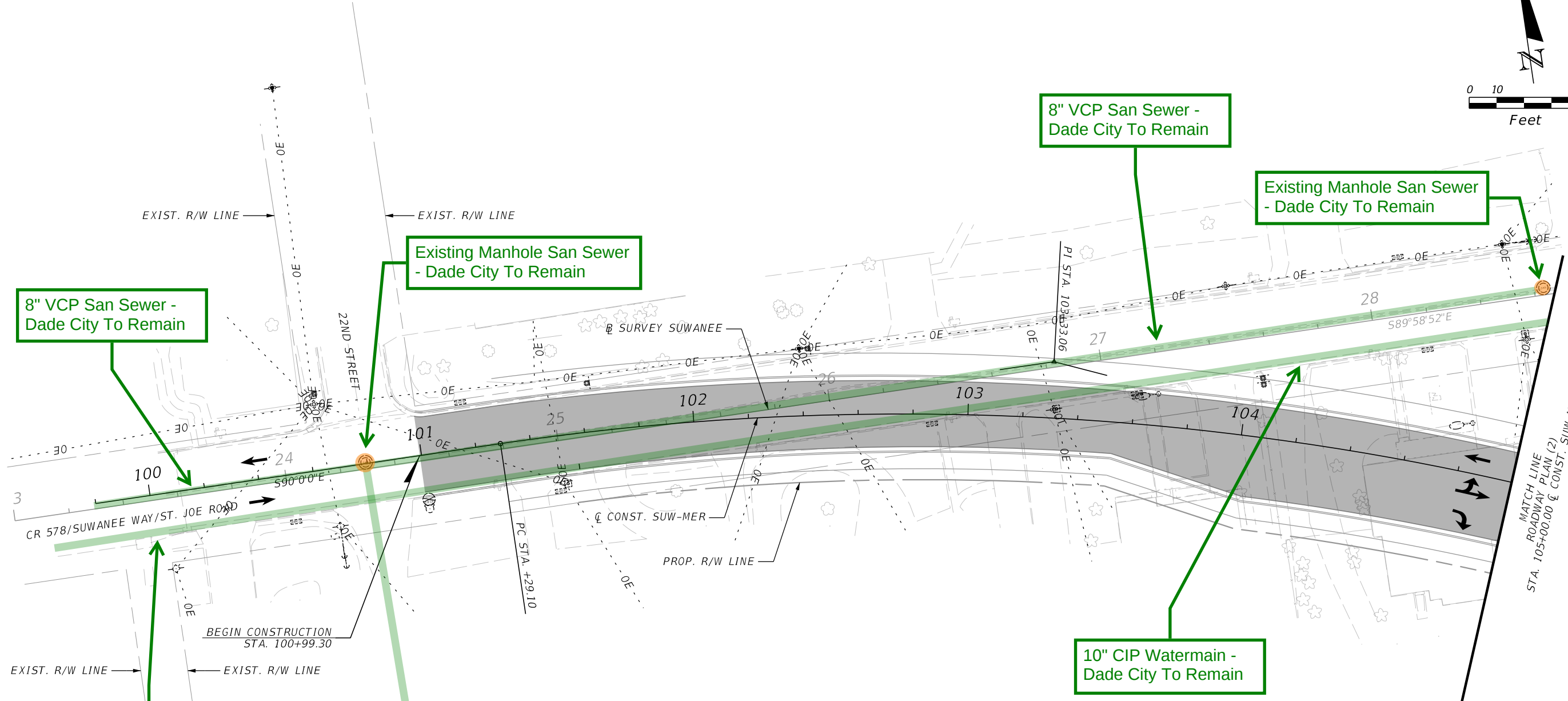
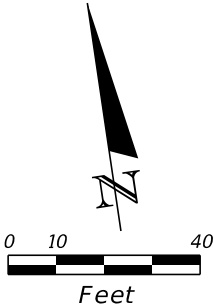


END PROJECT
END CONSTRUCTION
STA. 543+00.55

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8" VCP San Sewer -
Dade City To Remain

Existing Manhole San Sewer
- Dade City To Remain

8" VCP San Sewer -
Dade City To Remain

Existing Manhole San Sewer
- Dade City To Remain

6" CIP Watermain -
Dade City To Remain

Existing 8" VCP San
Sewer - Dade City To
Remain

10" CIP Watermain -
Dade City To Remain

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REVISIONS			
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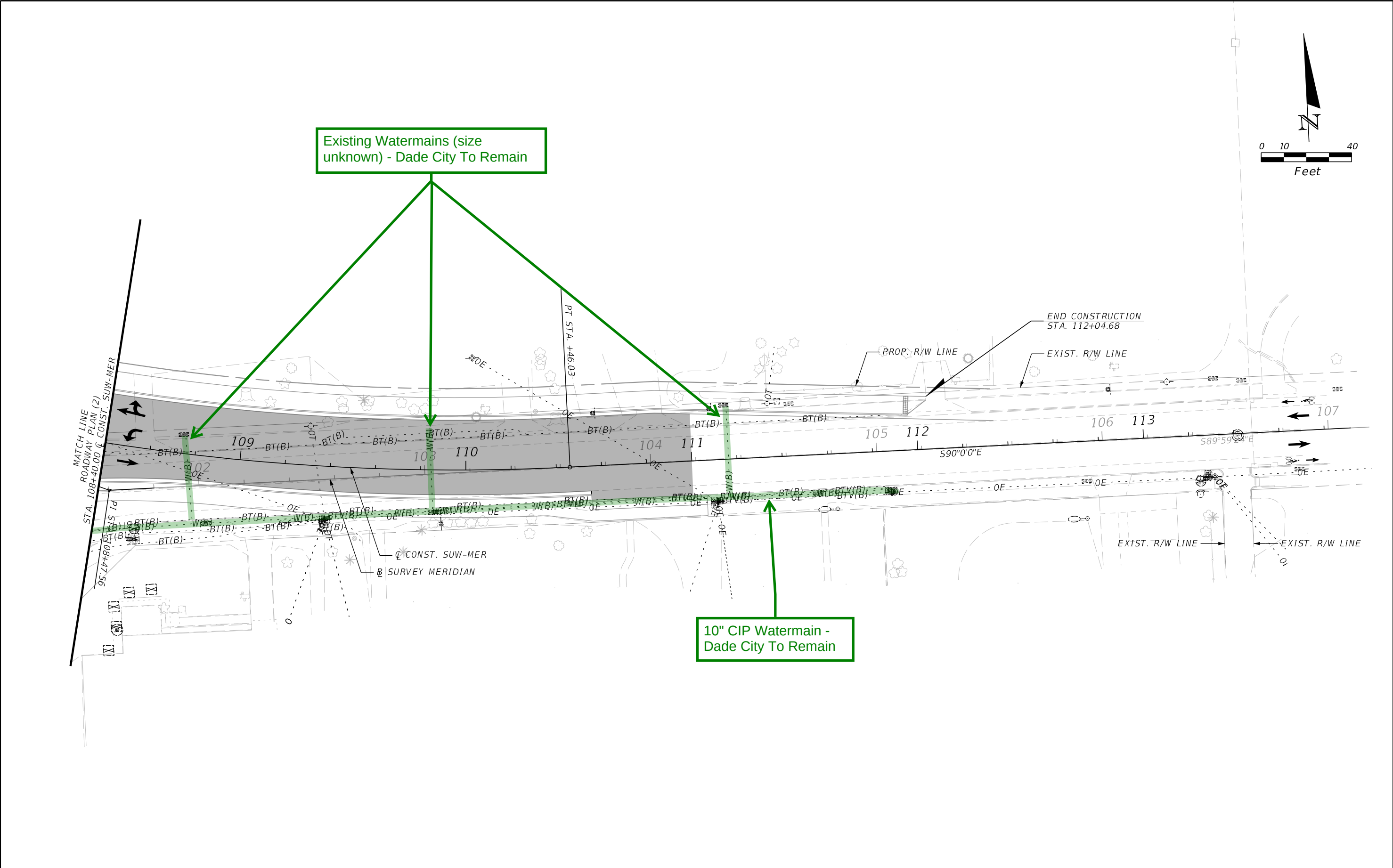
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
CR 52	PASCO	439832-5-52-01

UTILITY ADJUSTMENTS (4)	
X	

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						CR 52	PASCO	439832-5-52-01		X

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CONTRACT PLANS COMPONENTS

ROADWAY

STATE OF FLORIDA

DEPARTMENT OF TRANSPORTATION

ROADWAY PLANS

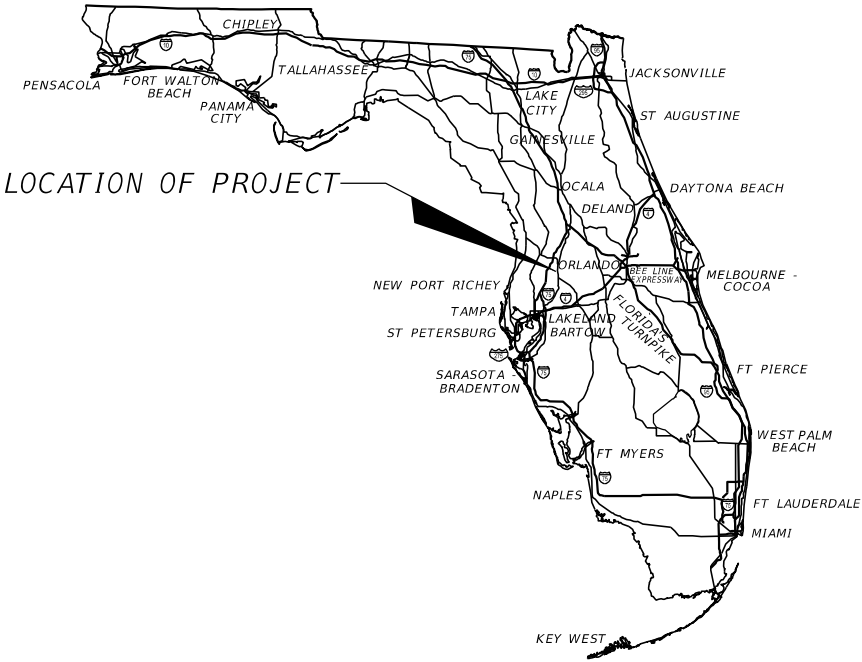
FINANCIAL PROJECT ID 439832-5-52-01

PASCO COUNTY (14120)

COUNTY ROAD NO. 52

CR 52/MERIDIAN AVENUE/21ST STREET/SUWANNEE WAY/ST. JOE ROAD
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CONTRACT NO.: CAM21
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FDOT PROJECT MANAGER:

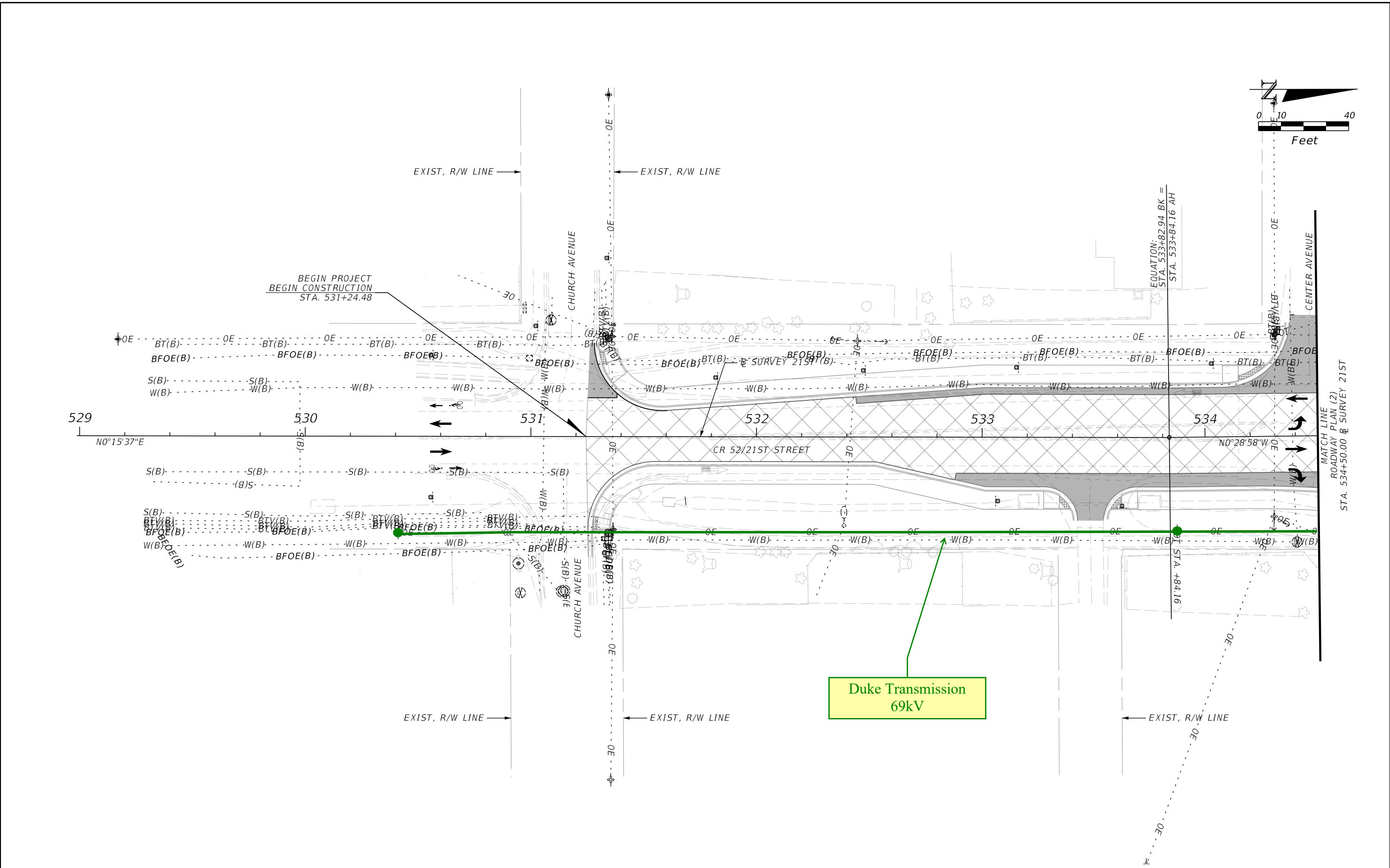
MARY LOU GODFREY, P.E.

GEC PROJECT MANAGER:

CHARLIE XIE, P.E.

CONSTRUCTION CONTRACT NO.	FISCAL YEAR	SHEET NO.
TBD	24	1

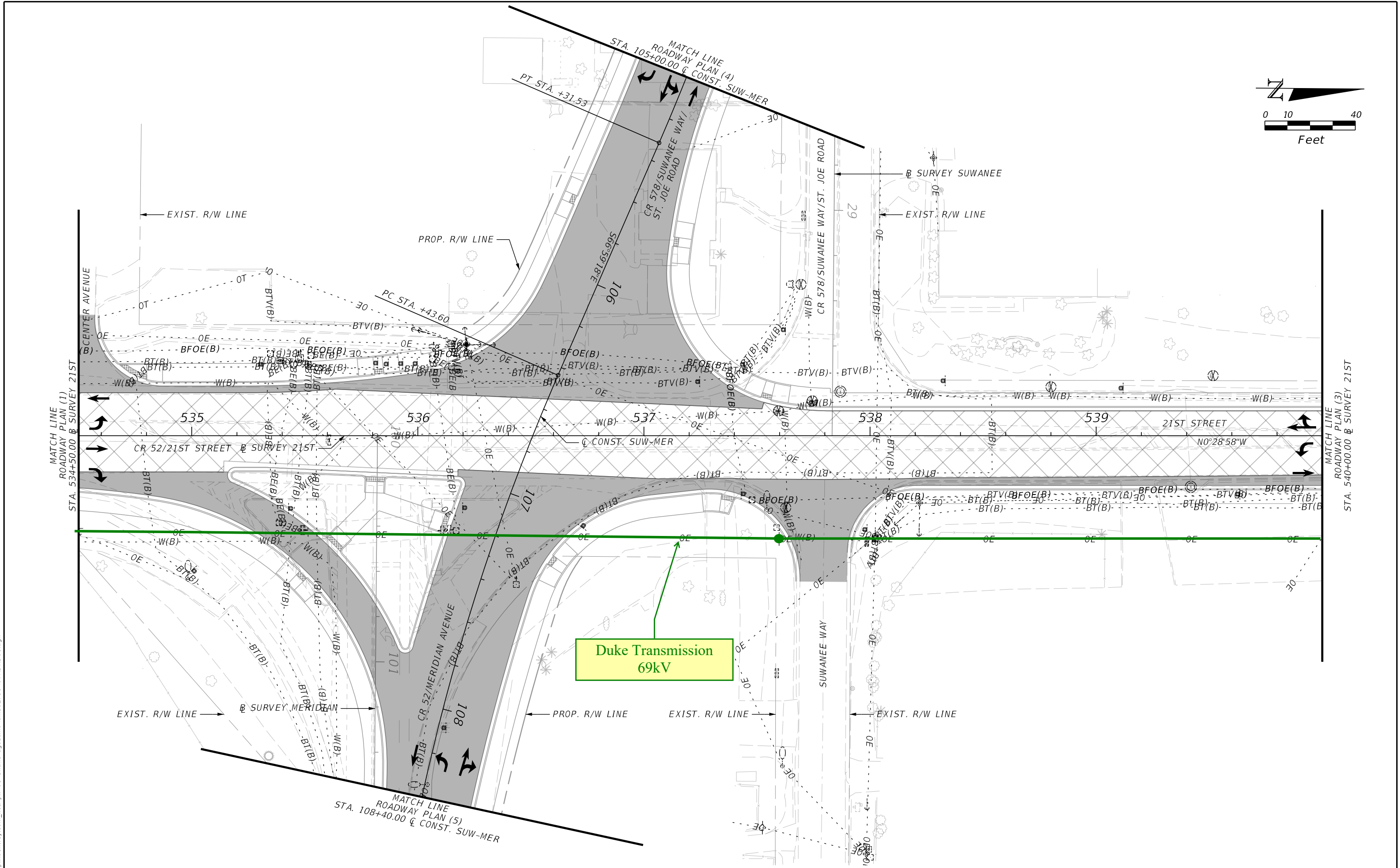
3/22/2024 12:17:19 PM sagostino
c:\pwworkingdir\kca-pw-bentley.com_kca-pw-01\shane agostino\dms62798-UTARD001.dgn



REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			UTILITY ADJUSTMENTS (1)	SHEET NO. X
DATE	DESCRIPTION	DATE	DESCRIPTION	VINCENT E. SHINE, P.E. LICENSE NUMBER: 67387 KISINGER CAMPO & ASSOCIATES CORP. 201 N. FRANKLIN STREET, SUITE 400 TAMPA, FL 33602		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
						CR 52	PASCO	439832-5-52-01		

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

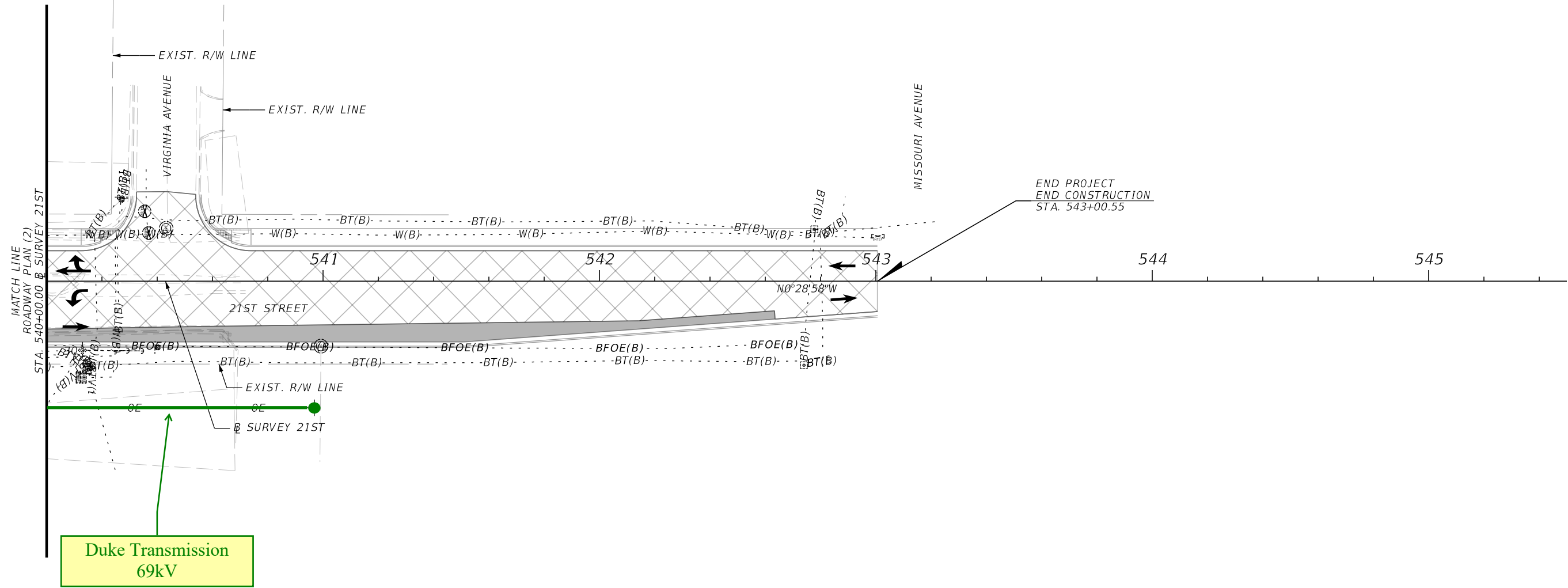
3/22/2024 12:17:30 PM sagostino
c:\pwworkingdir\kca-pw-bentley.com_kca-pw-01\shane agostino\dms62798-UTARD001.dgn



Duke Transmission
69kV

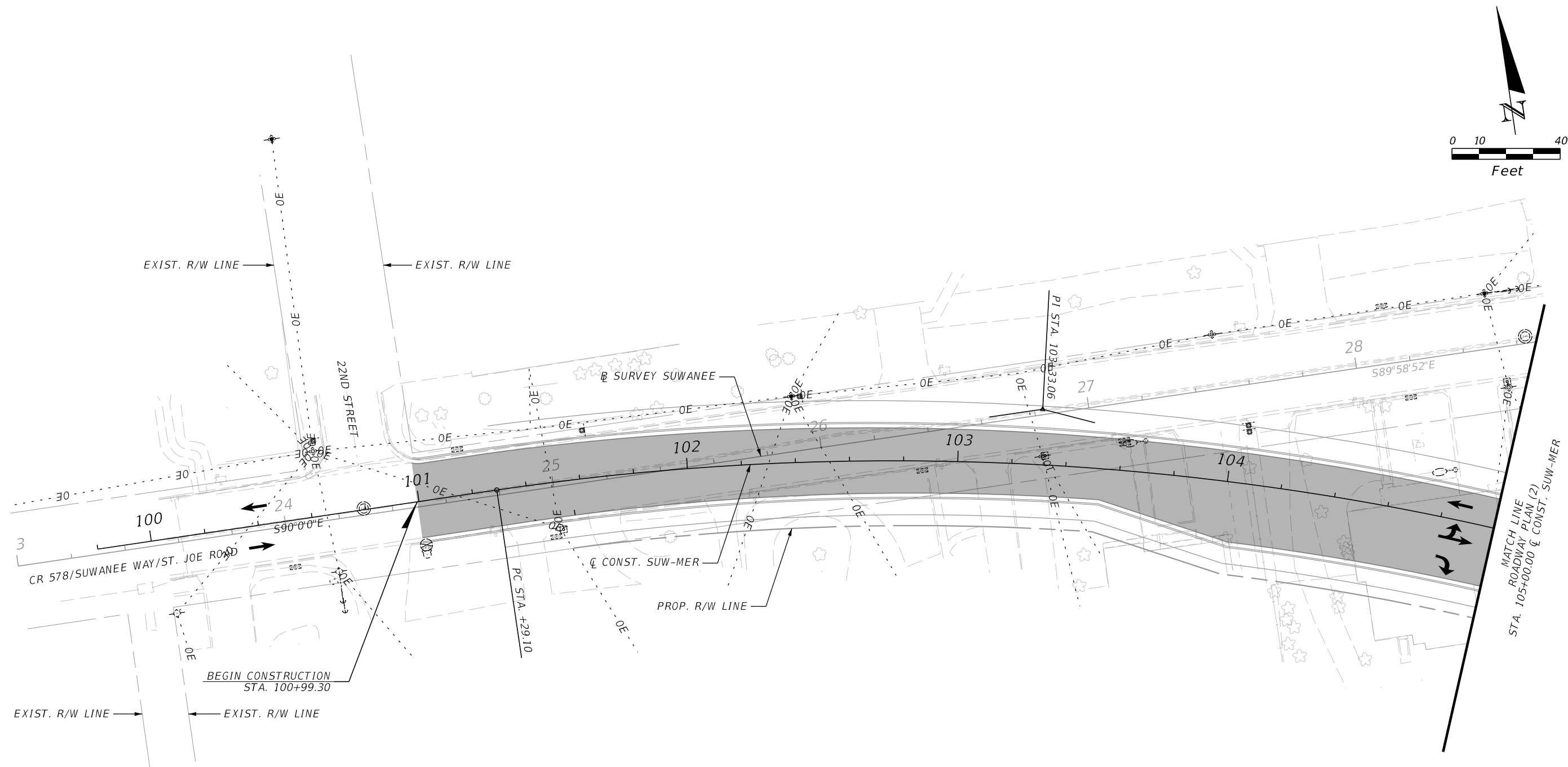
REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		UTILITY ADJUSTMENTS (2)	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	VINCENT E. SHINE, P.E. LICENSE NUMBER: 67387 KISINGER CAMPO & ASSOCIATES CORP. 201 N. FRANKLIN STREET, SUITE 400 TAMPA, FL 33602		ROAD NO.	COUNTY		
						CR 52	PASCO	439832-5-52-01	

3/22/2024 12:17:39 PM sagostino
c:\pwworkingdir\kca-pw\entley.com_kca-pw-01\shane agostino\dms62798-UTARD01.dgn



REVISIONS				ENGINEER OF RECORD	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			UTILITY ADJUSTMENTS (3)	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	VINCENT E. SHINE, P.E. LICENSE NUMBER: 67387 KISINGER CAMPO & ASSOCIATES CORP. 201 N. FRANKLIN STREET, SUITE 400 TAMPA, FL 33602	ROAD NO.	COUNTY	FINANCIAL PROJECT ID		X
					CR 52	PASCO	439832-5-52-01		

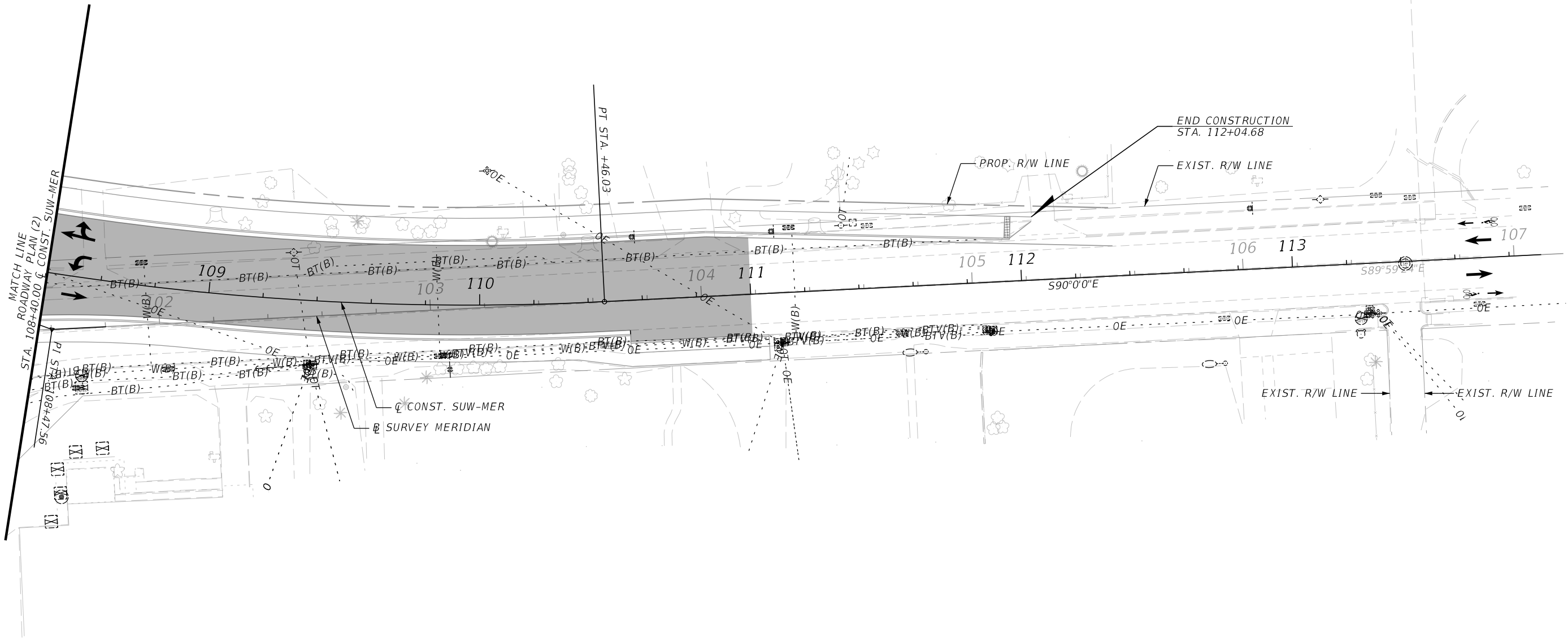
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



REVISIONS				ENGINEER OF RECORD	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			UTILITY ADJUSTMENTS (4)	SHEET NO.	
DATE	DESCRIPTION		DATE	DESCRIPTION		ROAD NO.	COUNTY		FINANCIAL PROJECT ID	X
						CR 52	PASCO		439832-5-52-01	
				VINCENT E. SHINE, P.E. LICENSE NUMBER: 67387 KISINGER CAMPO & ASSOCIATES CORP. 201 N. FRANKLIN STREET, SUITE 400 TAMPA, FL 33602						

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

3/22/2024 12:18:03 PM sagostino
c:\pwworkingdir\kca-pw-bentley.com_kca-pw-01\shane agostino\dms62798-UTARD001.dgn



REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			UTILITY ADJUSTMENTS (5)	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	VINCENT E. SHINE, P.E. LICENSE NUMBER: 67387 KISINGER CAMPO & ASSOCIATES CORP. 201 N. FRANKLIN STREET, SUITE 400 TAMPA, FL 33602		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
						CR 52	PASCO	439832-5-52-01		X

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

Mike Hammer

From: Jonah J. Johnson <jjjohnson@pascocountyfl.net>
Sent: Friday, April 12, 2024 3:32 PM
To: Mike Hammer
Cc: Venkat Vattikuti; Jeffrey M. Moncalian
Subject: Re: 439832-5 // CR 52 Intersection Improvement - Phase I UAO Submittal

CAUTION: [EXTERNAL] This Email Originated From Outside The Organization. Do Not Click Links or Open Attachments Unless You Recognize The Sender And Know The Content Is Safe.

Good afternoon,

Mike, traffic signals on State Roads we just maintain but if they are located on a county roads we owned them. If you have anything else you need please let us know.

Thanks
Jonah

[Image]<<http://www.pascocountyfl.net/>>

Jonah Johnson

Traffic Operations Locator Tech II

Public Infrastructure/ Engineering Services Department

Pasco County

P: 727-847-8139

Cell: (727) 494-5234

7536 State Street, Suite 138

New Port Richey, FL 34654

Jjjohnson@pascocountyfl.net<<mailto:Jjjohnson@pascocountyfl.net>>

www.mypasco.net<[http://www.mypasco.net/](http://www.mypasco.net)>

From: Mike Hammer <mhammer@elementeg.com>

Sent: Thursday, April 11, 2024 3:06:49 PM
To: Jonah J. Johnson <jjjohnson@pascocountyfl.net>
Cc: Venkat Vattikuti <vvattikuti@pascocountyfl.net>; Jeffrey M. Moncalian <jmoncalian@pascocountyfl.net>
Subject: RE: 439832-5 // CR 52 Intersection Improvement - Phase I UAO Submittal

Johah,

Thank you for the depiction. Can you please confirm that Pasco County is the owner of the depicted facilities or simply the maintaining agency?

Mike Hammer | Sr. Utility Coordinator

[A close up of a sign Description automatically generated]

ELEMENT ENGINEERING GROUP, LLC

8509 BENJAMIN RD. SUITE E | TAMPA, FL 33634

O: 813.852.1888 | F: 813-386-2106

MHAMMER@ELEMENTEG.COM<mailto:MHAMMER@ELEMENTEG.COM> |
[WWW.ELEMENTEG.COM](http://www.elementeg.com/)<<http://www.elementeg.com/>>

TRANSPORTATION | CIVIL | UTILITY COORDINATION

SURVEYING & MAPPING

SUBSURFACE UTILITY ENGINEERING

CERTIFIED MBE | DBE

From: Jonah J. Johnson <jjjohnson@pascocountyfl.net>
Sent: Thursday, April 11, 2024 2:51 PM
To: Mike Hammer <mhammer@elementeg.com>
Cc: Venkat Vattikuti <vvattikuti@pascocountyfl.net>; Jeffrey M. Moncalian
<jmoncalian@pascocountyfl.net>
Subject: RE: 439832-5 // CR 52 Intersection Improvement - Phase I UAO Submittal

CAUTION: [EXTERNAL] This Email Originated From Outside The Organization. Do Not Click Links or Open Attachments Unless You Recognize The Sender And Know The Content Is Safe.

Good afternoon,

Mike, as you requested attached is a copy of our prints with the traffic utilities highlighted and labeled on page 4. Contact Pasco County Traffic Operations with any more concerns.

Thanks,

Jonah

[Image]<<http://www.pascocountyfl.net/>>

Jonah Johnson

Traffic Operations Locator Tech II

Public Infrastructure/ Engineering Services Department

Pasco County

P: 727-847-8139

Cell: (727) 494-5234

7536 State Street, Suite 138

New Port Richey, FL 34654

Jjjohnson@pascocountyfl.net<mailto:Jjjohnson@pascocountyfl.net>

www.mypasco.net<<http://www.mypasco.net/>>

From: Venkat Vattikuti <vvattikuti@pascocountyfl.net<mailto:vvattikuti@pascocountyfl.net>>

Sent: Monday, March 25, 2024 4:54 PM

To: Jeffrey M. Moncalian <jmoncalian@pascocountyfl.net<mailto:jmoncalian@pascocountyfl.net>>;

Jonah J. Johnson <jjjohnson@pascocountyfl.net<mailto:jjjohnson@pascocountyfl.net>>

Cc: Venkat Vattikuti <vvattikuti@pascocountyfl.net<mailto:vvattikuti@pascocountyfl.net>>

Subject: FW: 439832-5 // CR 52 Intersection Improvement - Phase I UAO Submittal

Importance: High

Please respond back...

Thank you

Venkat

Venkat Vattikuti, P.E., PTOE

Traffic Operations Manager

Pasco County BCC | Public Infrastructure

Ph: (727) 847-8139, ext. 8623

Email: vwattikuti@pascocountyfl.net<<mailto:vwattikuti@pascocountyfl.net>>

From: Mike Hammer <mhammer@elementeg.com<<mailto:mhammer@elementeg.com>>>

Sent: Monday, March 25, 2024 2:10 PM

To: Relocations@Lumen.com<<mailto:Relocations@Lumen.com>>;

jkemp@dadecityfl.com<<mailto:jkemp@dadecityfl.com>>;

jwarrenfeltz@dadecityfl.com<<mailto:jwarrenfeltz@dadecityfl.com>>; Venkat Vattikuti

<vwattikuti@pascocountyfl.net<<mailto:vwattikuti@pascocountyfl.net>>>;

william.walker1@charter.com<<mailto:william.walker1@charter.com>>; dl-fl-pas-

construction@charter.com<<mailto:dl-fl-pas-construction@charter.com>>; CSAdmin

<C7@tecoenergy.com<<mailto:C7@tecoenergy.com>>>

Cc: Xie, Charlie <Charlie.Xie@dot.state.fl.us<<mailto:Charlie.Xie@dot.state.fl.us>>>; Williams, Winston

<winston.williams@dot.state.fl.us<<mailto:winston.williams@dot.state.fl.us>>>; Vincent Shine

<VShine@kcaeng.com<<mailto:VShine@kcaeng.com>>>

Subject: 439832-5 // CR 52 Intersection Improvement - Phase I UAO Submittal

Importance: High

Good afternoon everyone,

This email is to serve as follow up to the submittal made via FDOT's PSEE system. With this submittal, FDOT is requesting green line depiction to verify ownership of facilities collected from a recent project as well as any newly installed or retired-in-place facilities. This submittal also begins the FDOT's 30-day review period for any UAO research or field verification needed to provide the green line response. The 30-day review period expires on Friday, April 19th making responses due also.

If you have any questions, please feel free to contact me directly.

1. CenturyLink
2. Dade City
3. Pasco County Traffic
4. Spectrum
5. Tampa Electric

Mike Hammer | Sr. Utility Coordinator

[A close up of a sign Description automatically generated]

ELEMENT ENGINEERING GROUP, LLC

8509 BENJAMIN RD. SUITE E | TAMPA, FL 33634

O: 813.852.1888 | F: 813-386-2106

MHAMMER@ELEMENTEG.COM<mailto:MHAMMER@ELEMENTEG.COM> |
[WWW.ELEMENTEG.COM](http://www.elementeg.com/)<<http://www.elementeg.com/>>

TRANSPORTATION | CIVIL | UTILITY COORDINATION

SURVEYING & MAPPING

SUBSURFACE UTILITY ENGINEERING

CERTIFIED MBE | DBE

From: DoNotReply-FDOTApps@dot.state.fl.us<mailto:DoNotReply-FDOTApps@dot.state.fl.us>
<DoNotReply-FDOTApps@dot.state.fl.us<mailto:DoNotReply-FDOTApps@dot.state.fl.us>>
Sent: Monday, March 25, 2024 1:26 PM
Subject: PSEE: Project: 439832-5 Activity: Create Plan Entry By: Mike Hammer (KNOMNMH)

CAUTION: [EXTERNAL] This Email Originated From Outside The Organization. Do Not Click Links or Open Attachments Unless You Recognize The Sender And Know The Content Is Safe.

Click to see the referenced

Project<<https://projectsuite.dot.state.fl.us/Pages/Project/Project.aspx?item=439832&itemSeg=5>> in PSEE

If you are not on the DOT Network, click to see the referenced

Project<<https://psee.fdot.gov/Pages/Project/Project.aspx?item=439832&itemSeg=5>> in PSEE

Project: 439832-5

Project Description: CR 52/MERIDIAN AVENUE/21ST STREET/SUWANNEE WAY/ST. JOE ROAD

Plan

Plan Phase: PHASE I INITIAL

Sequence:

Plan Action: For Review And Markup

Utility Project Manager: Williams, Winston

Utility Coordinator: Hammer, Mike

Created On: 3/25/2024 1:26:19 PM

[Go to our Website]<<http://www.pascocountyfl.net/>>

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CUSA18A7

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

CONTRACT PLANS

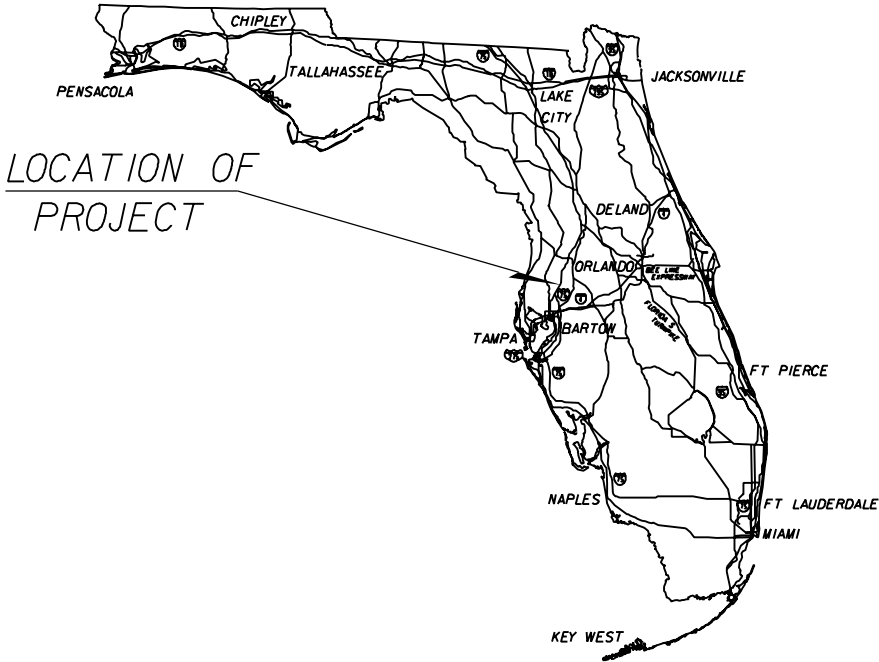
FINANCIAL PROJECT ID 406550-1-52-01
PASCO COUNTY (14/20)

STATE ROAD NO. 52
FROM 21st STREET TO S.R. 533

SIGNALIZATION PLANS

INDEX OF SIGNALIZATION PLANS

SHEET NO.	SHEET DESCRIPTION
T-1	KEY SHEET
T-2	TABULATION OF QUANTITIES
T-3	GENERAL NOTES
T-4 - T-6	SIGNALIZATION PLAN SHEETS
T-7	TEMPORARY SIGNAL PLAN SHEET (PHASE I)
T-8	MAST ARM TABULATION SHEET
T-9	TABLE OF VARIABLES FOR STANDARD MAST ARM ASSEMBLIES (INDEX NO. S-1700)
T-10	PORTABLE TRAFFIC MONITORING SITE DETAILS
T-11	SPECIAL BRACKETT ARM (TWO WAY)
T-12	SIGN BRACKET ARM DETAILS (TWO WAY)
T-13	CANTILEVER SIGNAL STRUCTURE MISCELLANEOUS DETAILS
T-14	SPREAD SPECTRUM RADIO ASSEMBLY TYPICAL CONFIGURATION DETAILS
T-15 - T-17	GUIDE SIGN WORK SHEET
T-18	CORE BORINGS REPORT



LOCATION OF
PROJECT

SIGNALIZATION SHOP DRAWINGS
TO BE SUBMITTED TO:
DILIP MUNDKUR, P.E.
BES, INC.
11007 N. 56th St., SUITE 208
Temple Terrace, FL 33617
PHONE: 813-985-7800

PLANS PREPARED BY:
BES Inc. 11007 N. 56th St., #208
TRANSPORTATION ENGINEERS Temple Terrace, FL 33617
C.A. No. 9835

VENDOR NO. 20-0242028
CONTRACT NO. C-8G76
CA NO. 9835

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

KEY SHEET REVISIONS		
DATE	BY	DESCRIPTION

SIGNALIZATION PLANS ENGINEER OF RECORD: DILIP MUNDKUR, P.E.
P.E. NO. 49031

FISCAL YEAR	SHEET NO.
08	T-1

FDOT PROJECT MANAGER: STEPHEN CARROLL

TABULATION OF QUANTITIES

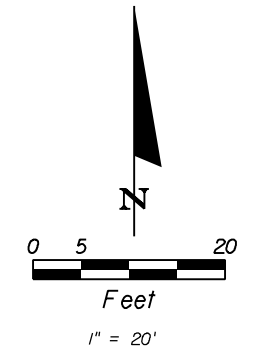
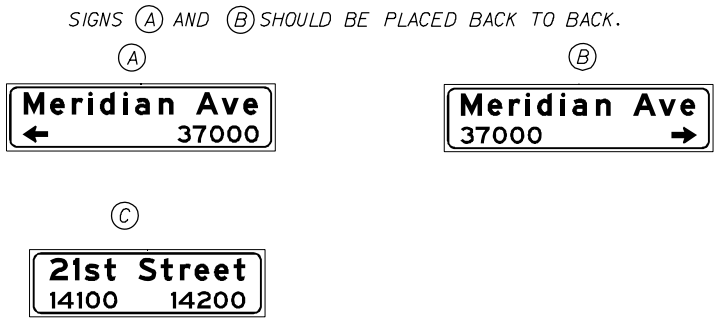
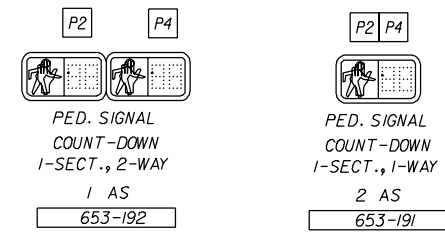
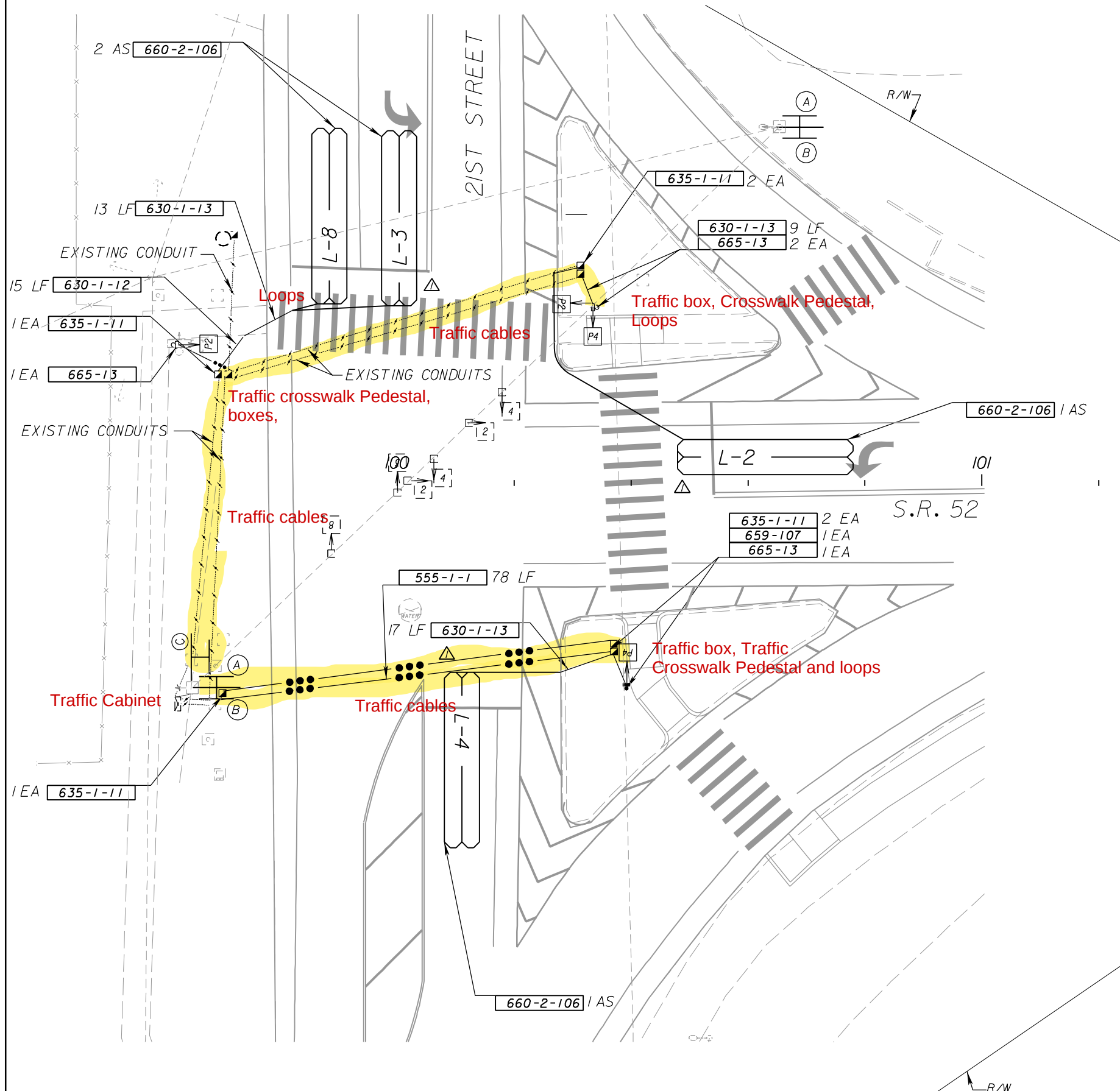
PAY ITEM NO.	DESCRIPTION	UNIT	SHEET NUMBERS																				TOTAL THIS SHEET		GRAND TOTAL		REF. SHEET	
			T-4		T-5		T-6		T-10																			
			PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL		
555-1-1	DIRECTIONAL BORE (<6") (2" CONDUIT - 1 RUN)	LF	78																					78		78		
555-1-2	DIRECTIONAL BORE(6" TO < 12")(2" CONDUIT-3 RUNS)	LF					243																	243		243		
630-1-12	CONDUIT (FURNISH & INSTALL)(UNDERGROUND)	LF	15																					15		15		
630-1-13	CONDUIT (FURNISH & INSTALL)(UNDER PAVT)	LF	39		50		219		5															313		313		
632-7-1	CABLE (SIGNAL) (FURNISH & INSTALL)	PI					1																	1		1		
635-1-11	PULL & JUNCTION BOXES (F&I) (PULL BOX)	EA	6		5		14		1															26		26		
639-1-22	ELECTRICAL POWER SERVICE (UNDERGROUND)	AS					1																	1		1		
639-2-1	ELECTRICAL SERVICE WIRE	LF					502																	502		502		
641-11-112	PREST CNC POLE(F&I,12' TYP N-11,SVC POLE	EA					1																	1		1		
649-425-404	M/ARM(F&I/HL)(1ST(B5))(2ND(B4))POLE(Q4)	EA					2																	2		2		
650-51-313	SIGNAL TRAF(F&I)(3 SECT 1 WY)(LED)	AS					4																	4		4		
650-51-513	SIGNAL TRAF(F&I)(5 SECT 1 WAY)(LED)	AS					4																	4		4		
653-191	SIGNAL PED (F & I) (COUNTDOWN) (1 DIRECTION)	AS	2		6																			8		8		
653-192	SIGNAL PED (F & I) (COUNTDOWN) (2 DIRECTIONS)	AS	1		1		4																	6		6		
659-101	SGNL HEAD AUXILIARIES (BACK PLT 3 SECT)	EA					2																	2		2		
659-106	SGNL HEAD AUXILIARIES (TUNNEL VISOR)	EA					32																	32		32		
659-107	SGNL HEAD AUXILIARIES (ALUMINUM PED)	EA	1		7		2																	10		10		
659-118	SGNL HEAD AUX (BACK PLT 5 SECT CLU)	EA					2																	2		2		
660-1-103	LOOP DETECTOR INDUCTIVE (F&I) (TYPE 3)	EA					6																	6		6		
660-1-104	LOOP DETECTOR INDUCTIVE (F&I) (TYPE 4)	EA					2																	2		2		
660-2-102	LOOP ASSEMBLY (F&I) (TYPE B)	EA			2		2																	4		4		
660-2-106	LOOP ASSEMBLY (F&I) (TYPE F)	EA	4		4		6																	14		14		
665-12	DET PED (F&I)(DET STA WITH POST)	EA					2																	2		2		
665-13	DETECTOR PED (F&I)(DETECTOR W/SGN ONLY)	EA	4		8		6																	18		18		
670-5-110	CNTL ASSEM ACT SS F&I NEMA PRE(NONE)	AS					1																	1		1		
685-106	SYS AUX (UNINTERRUPTIBLE PWR SOURCE)	EA					1																	1		1		
690-10	SIGNAL HEAD TRAFFIC ASSEMBLY REMOVAL	EA					8																	8		8		
690-20	SIGNAL PEDESTRIAN ASSEMBLY REMOVAL	EA	1		4		5																	10		10		
690-32-1	POLE REMOVAL(SHALLOW/DIRECT BURIAL)	EA					4																	4		4		
690-50	CNTRL ASSEM REMOVE	EA					1																	1		1		
690-70	DETECTOR PEDESTRIAN ASSEMBLY REMOVE	EA	3		8		8																	19		19		
690-80	SPAN WIRE ASSEMBLY REMOVE	EA					8																	8		8		
690-90	CONDUIT & CABLING REMOVE	PI					1																	1		1		
690-100	SIGNAL EQUIPMENT MISCELLANOUS REMOVE	PI	1		1		1																	3		3		
699-1-1	SIGN, INTERNAL ILLUM(ST NAME)	EA	3		4		6																	13		13		
741-70-111	TMS VEH SNSR(CLS 11)(F&I)(TYP 1)(1/2 LN)	EA							2															2		2		
745-70-12	TMS INDUCTIVE LOOP ASM(F&I)(2 LOOPS/LN)	EA							4															4		4		
746-71-131	TMS CAB(F&I)(TYP 111)(PED)(1 BACKPLANE)	EA							1															1		1		

REVISIONS						BES INC. TRANSPORTATION ENGINEERS Dilip K. Mundkur, P.E. No. 49031 11007 N. 56th St., #208 Temple Terrace, FL 33617 C.A. No. 9835	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			TABULATION OF QUANTITIES	SHEET NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		T-2
							S.R. 52	PASCO	406550-I-52-01		

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 6G15-23.003, F.A.C.

GENERAL NOTES:						II. 639-1-22: THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE COMPANY PROVIDING ELECTRICAL POWER TO DETERMINE IF A SERVICE PROCESSING OR CONNECTION FEE IS REQUIRED. THE COST OF ANY SUCH FEE SHALL BE INCLUDED AS PART OF PAYMENT FOR ELECTRICAL POWER SERVICE ASSEMBLY.		
1. THE CONTRACTOR SHALL MEET THE CRITERIA OUTLINED IN "THE MINIMUM SPECIFICATIONS FOR TRAFFIC CONTROL SIGNAL DEVICES."						12. 639-1-22 THE COST OF THIS ITEM SHALL INCLUDE THE COST FOR THE APPROPRIATE METER CAN CONTAINING AN INTERNAL BYPASS SHUNT SWITCH AS REQUIRED BY THE LOCAL POWER COMPANY.		
2. THE LOCATIONS OF UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE. PRIOR TO DIGGING, THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATIONS OF ALL UTILITIES.						13. 639-2-1: THE PAYMENT OF THIS ITEM SHALL BE BASED ON THE LINEAR FOOT OF A SINGLE CONDUCTOR.		
3. ONE WEEK PRIOR TO THE TRAFFIC SIGNAL INSTALLATION, THE CONTRACTOR SHALL CONTACT:						14. 649-425-404: INCLUDES THE PAY ITEM NUMBER TO RELOCATE THE EXISTING OPTICOM DETECTORS FROM THE SPAN WIRE TO THE NEW MAST ARMS. AT LOCATIONS WHERE UNDERGROUND UTILITIES ARE IN CLOSE PROXIMITY TO THE SIGNAL POLE FOUNDATION, AS DETERMINED BY THE CONTRACTOR, THE CONTRACTOR SHALL HAND DIG THE FIRST FOUR FEET OF THE HOLE FOR THE POLE FOUNDATION. CONTRACTOR SHALL PROVIDE A 6" X 6" SAMPLE SIZE OF MAST ARM COLOR BEFORE FABRICATING ARMS AND POLES. PRIOR TO ORDERING THE MAST ARM ASSEMBLIES, ENSURE THAT THE CITY OF DADE CITY (CONTACT HAROLD SAMPLE @ (352) 523-5087) HAS APPROVED THE COLOR (FS CODE 10045).		
A) JIM A. ROSA, F.D.O.T DISTRICT SEVEN TRAFFIC OPERATIONS CONSTRUCTION LIAISON FLORIDA DEPARTMENT OF TRANSPORTATION 11201 NORTH MCKINLEY DRIVE TAMPA, FLORIDA 33612 EMAIL: james.rosa@dof.state.fl.us PHONE: (813) 975-6269						15. 650-51-313 AND 650-51-513: ALL TRAFFIC SIGNAL HEAD INDICATIONS SHALL BE LED.		
B) MR. ROBERT W. RECK, TRAFFIC OPERATIONS MANAGER PASCO COUNTY TRAFFIC OPERATIONS DIVISON PUBLIC WORKS UTILITIES BUILDING, ROOM 124 7530 LITTLE ROAD NEW PORT RICHEY, FLORIDA 34654 PHONE: (727) 847-8139						16. 653-191, 653-192: PEDESTRIAN SIGNAL SHALL BE COUNTDOWN WITH OVERLAY/FILLED/FILLED HAND AND PEDESTRIAN SYMBOLS, AND SHALL BE F.D.O.T APPROVED PRODUCT.		
4. PRIOR TO ALL TRAFFIC SIGNAL CHANGES (I.e., MAINTENANCE OF TRAFFIC CHANGES, DIFFERENT PAVEMENT CONFIGURATIONS,etc.), CONTACT RICK NAPORA AT (813)975-6232, AT LEAST 48 HOURS IN ADVANCE FOR IMPLEMENTATION OF APPROPRIATE SIGNAL TIMINGS.						17. 659-107: ALUMINUM PEDESTALS SHALL BE MOUNTED ON A TRANSFORMER BASE.		
5. THE CONTRACTOR SHALL CONTACT THE LOCAL POWER COMPANY FOR THEIR ASSISTANCE IN PERFORMING ALL NECESSARY WORK UNDER POWER LINES. SUCH WORK SHALL INCLUDE, BUT NOT BE LIMITED TO THE INSTALLATION OF SIGNAL CABLE, AND/OR SIGNAL POLES.						18. 660-2-102 AND 660-2-106: THE CONTRACTOR SHALL NOTIFY THE PASCO COUNTY SIGNAL SHOP AND F.D.O.T. DISTRICT SEVEN TRAFFIC OPERATIONS AT LEAST 48 HOURS IN ADVANCE OF LOOP CUTTING.		
6. UNLESS OTHERWISE NOTED, ALL REMOVED EQUIPMENT SHALL BE TURNED OVER TO THE PASCO COUNTY SIGNAL SHOP IN EXISTING CONDITION, EXCEPT FOR POLES AND SPAN WIRES, WHICH SHALL BE DISPOSED OF BY THE CONTRACTOR IN AREAS PROVIDED BY HIM. COST OF DELIVERY SHALL BE INCLUDED IN THE UNIT PRICE OF PAY ITEM 690-100.						19. 665-12, 665-13: SHALL INCLUDE ADDITIONAL COST OF LABOR AND MATERIALS REQUIRED FOR INSTALLLATION OF PEDESTRIAN SIGNAL SIGN FTP-69B-06.		
7. THE CONTRACTOR SHALL SUBMIT THE AS-BUILT PLANS TO THE ENGINEER FOR APPROVAL PRIOR TO THE 48 HOUR TEST. AFTER THE 48 HOUR TEST, THE ENGINEER SHALL PROVIDE AT LEAST ONE COPY OF THE FINAL AS-BUILT PLANS TO PASCO COUNTY AND ONE COPY TO DISTRICT TRAFFIC OPERATIONS.						20. 670-5-110: THE CONTRACTOR SHALL NOTIFY THE PASCO COUNTY TRAFFIC SIGNAL SUPERVISOR AND F.D.O.T DISTRICT SEVEN TRAFFIC OPERATIONS AT LEAST 48 HOURS IN ADVANCE OF TURNING ON A NEW OR MODIFIED CONTROLLER CABINET ASSEMBLY. CABINET DOOR SHOULD OPEN AWAY FROM TRAFFIC.THE TECHNICIAN SERVICE SLAB SHALL BE A MAXIMUM OF 4" BELOW THE TOP OF THE CONCRETE PAD. THE CONTROLLER SHALL BE HOUSED IN A TYPE "V" CABINET. THE CABINET SHALL INCLUDE AN EIGHT PHASE BACKPLANE WITH A MINIMUM OF 16 POSITIONS ON THE LOAD BAY AND SHALL INCLUDE ADDITIONAL COST OF LABOR, CONCRETE, AND OTHER MATERIALS FOR CONTROLLER BASE, PAD, AND STEPS, AS ONE UNIT. THE CONTRACTOR SHALL COORDINATE WITH PASCO COUNTY SIGNAL SHOP FOR ACCEPTABLE CHOICES OF TRAFFIC CONTROLLER AND CONTROLLER CABINET.		
PAY ITEM FOOTNOTES:						21. 670-5-110: SHALL INCLUDE TELEMETRY TRANSCEIVER, ALL INTERFACE PANELS, CONTROLLER EQUIPMENT, AND SHALL BE FUNCTIONALLY COMPATIBLE WITH THE SYSTEM EQUIPMENT AND SOFTWARE NOW OPERATING ON THE TRAFFIC SIGNAL COMPUTER SYSTEM. CABINET CIRCUITRY AND CONTROLLER EQUIPMENT SHALL FALL BACK TO TIME BASED COORDINATION IN THE EVENT THE LOSS OF TELEMETRY COMMUNICATIONS OCCURS. ALSO THIS PAYITEM SHALL INCLUDE THE FURNISHING AND INSTALLING OF SPREAD SPECTRUM RADIO ASSEMBLY.		
8. 555-1-1 AND 555-1-2: CONDUITS INSTALLED WITH THE DIRECTIONAL BORE METHOD SHALL BE HDPE WITH A MINIMUM SIZE OF TWO INCHES, UNLESS OTHERWISE NOTED IN THE PLANS.						22. 685-106: THE UNINTERRUPTED POWER SUPPLY (UPS) UNIT SHALL BE HOUSED IN A SEPARATE CABINET. THIS PAY ITEM SHALL INCLUDE CABINET FOR HOUSING THE UPS UNIT. UPS CABINET SHALL BE PROVIDED WITH GENERATOR POWER TRANSFER SWITCH AND SHALL INCLUDE ADDITIONAL COST OF OF LABOR, CONCRETE AND OTHER MATERIALS FOR UPS BASE, PAD AND STEPS, AS ONE UNIT. THE CONTRACTOR SHALL COORDINATE WITH DISTRICT SEVEN TRAFFIC OPERATIONS FOR ACCEPTABLE CHOICES OF UPS UNITS AND SPECIFICATIONS.		
9. 630-1-12 AND 630-1-13: ALL CONDUIT RUNS SHOWN ON THE PLANS ARE SCHEMATIC AND FIELD ADJUSTMENTS MAY BE NECESSARY. WITH THE EXCEPTION OF DIRECTIONAL BORE CONDUITS, ALL UNDERGROUND AND UNDER PAVEMENT CONDUITS SHALL BE SCHEDULE 40 PVC WITH A MINIMUM SIZE OF TWO INCHES, UNLESS OTHERWISE SPECIFIED IN THE PLANS. TWO SEPARATE UNDERGROUND CONDUIT RUNS LOCATED 180 DEGREES APART ARE REQUIRED FOR ALL SIGNAL STRAIN POLES AND MAST ARMS. THERE SHALL BE MINIMUM OF TWO RUNS OF TWO INCH CONDUIT BETWEEN THE LAST LOW VOLTAGE(LOOPS) PULL BOX LOCATED NEAR THE CONTROLLER CABINET AND THE CONTROLLER CABINET.						23. 690-100: THIS ITEM SHALL INCLUDE THE REMOVAL OF EXISTING PULL BOXES.		
10. 632-7-1: EACH PHASE/ MOVEMENT SHALL BE WIRED FROM THE SIGNAL DISPLAY TO THE CONTROLLER AS A SEPARATE PHASE/ MOVEMENT. THIS INCLUDES THE LEFT TURN MOVEMENT WHICH SHALL HAVE CONDUCTORS AVAILABLE FOR EITHER PROTECTED OR PERMISSIVE MOVEMENTS. THE CONTRACTOR SHALL VERIFY COLOR CODES FOR SIGNAL CABLE AND INTERCONNNECT CABLE WITH THE PASCO COUNTY SIGNAL SHOP BEFORE ORDERING, AND WIRE THE SIGNAL IN ACCORDANCE WITH THAT COLOR CODE AND F.D.O.T SPECIFICATIONS. THERE SHALL BE ONE NEUTRAL PER APPROACH.						24. 699-1-1 THE OVERHEAD INTERNALLY ILLUMINATED STREET NAME SIGNS SHALL BE LED EDGE-LIT AND SHALL BE FDOT APPROVED PRODUCT.		
REVISIONS						STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION			
						ROAD NO. COUNTY FINANCIAL PROJECT ID		
BES Inc.11007 N. 56th St., #208 Temple Terrace, FL 33617 C.A. No. 9835 TRANSPORTATION ENGINEERS Dilip K. Mundkur, P.E. No. 49031						S.R. 52 PASCO 406550-1-52-02		
						GENERAL NOTES		
						T-3		

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.



NOTE: ALL INTERNALLY ILLUMINATED STREET NAME SIGNS ARE LED EDGE LIT, AND SHALL BE FDOT APPROVED PRODUCT.

- NOTES
1. THE CONTRACTOR SHALL LOCATE AND USE THE EXISTING CONDUIT FOR UNDER PAVEMENT RUNS AS SHOWN.
 2. TYPE F LOOPS ARE 6'X30' AND SHALL BE INSTALLED 2' UPSTREAM OF STOP BAR.
 3. SIGNAL TIMING WILL REMAIN AS EXISTING.

REMOVAL ITEMS

690-20	1 EA
690-70	3 EA
690-100	1 PI

DETECTORS FOR LOOPS				
LOOP	NO. OF LOOPS	NO. OF NEW DETS.	NO. OF EXIST. DETS.	DELAY TIME (SEC)
L-2	1		1	
L-3	1		1	
L-4	1		1	
L-8	1		1	
L-				
L-				
L-				
L-				
L-				

DELAY TIME IS INITIAL AND MAY REQUIRE FIELD ADJUSTING AS DIRECTED BY PROJECT ENGINEER.

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
04/04/08	RR	△ MOVED TYPE F LOOPS			

BES Inc.

TRANSPORTATION ENGINEERS

Dilip K. Mundkur, P.E. No. 49031

11007 N. 56th St., #208
Temple Terrace, FL 33617
C.A. No. 9835

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
S.R. 52	PASCO	406550-1-52-01

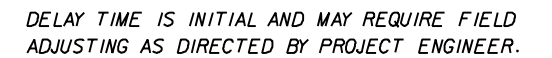
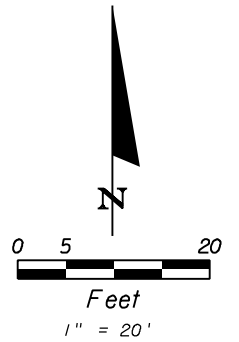
SHEET NO.

T-4

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.

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1. THE CONTRACTOR SHALL LOCATE AND USE THE EXISTING CONDUIT FOR UNDER PAVEMENT RUNS AS SHOWN.
2. TYPE F LOOPS ARE 6'X30' AND SHALL BE INSTALLED 2' UPSTREAM OF STOP BAR. TYPE B LOOPS ARE 6'X6' AND ARE INSTALLED 50' UPSTREAM OF THE STOPBAR.
3. SIGNAL TIMINGS WILL REMAIN SAME AS EXISTING.

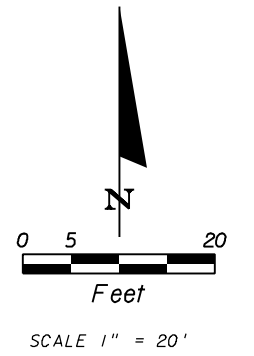
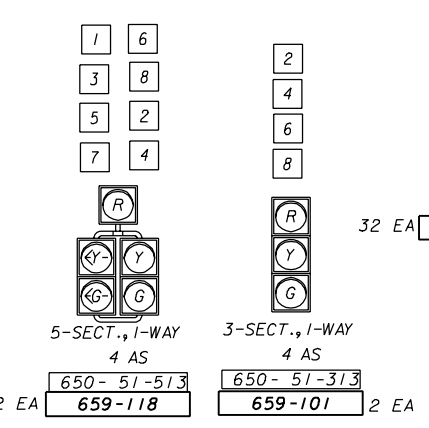
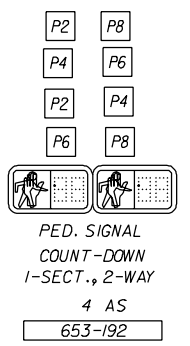
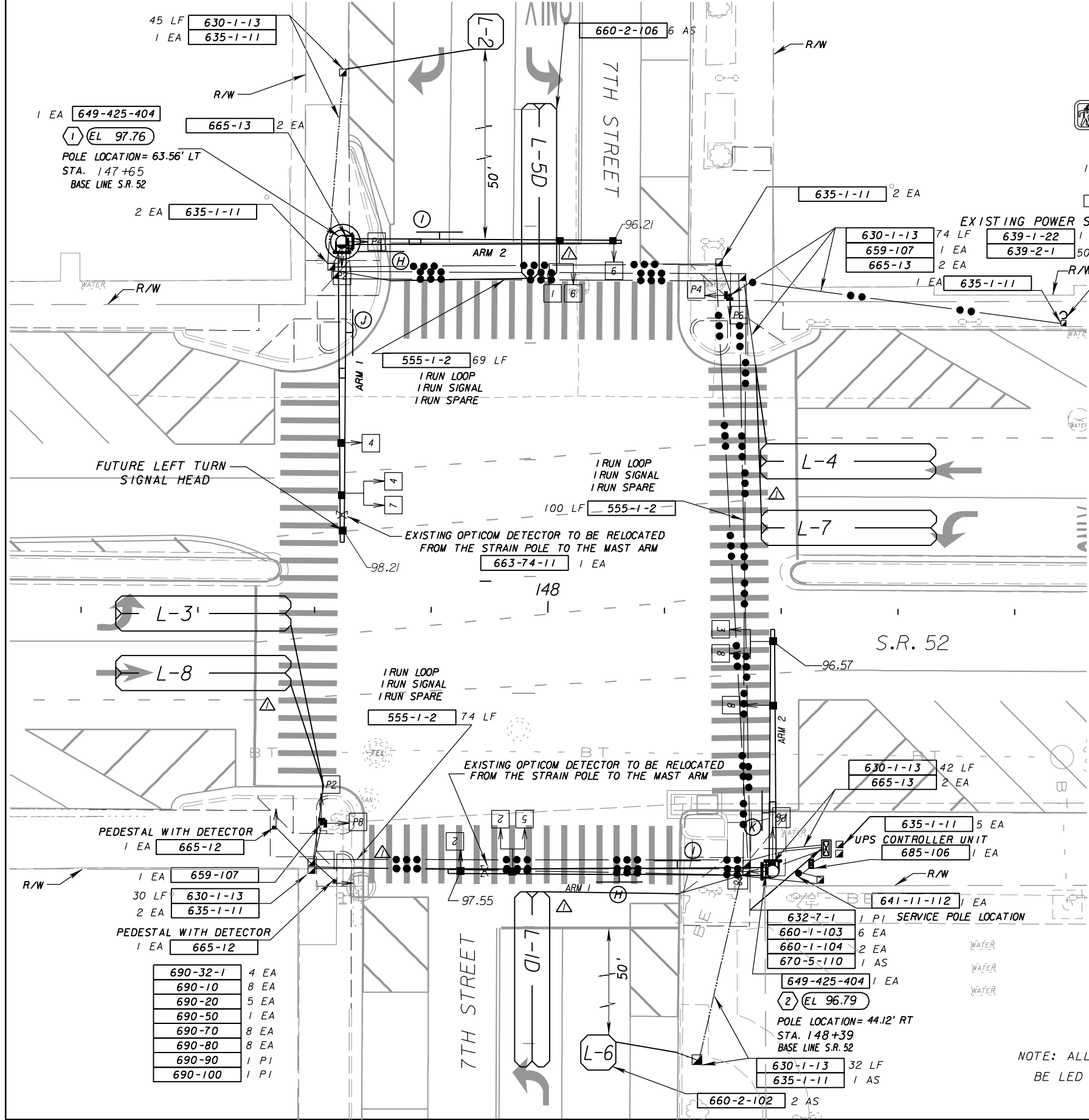


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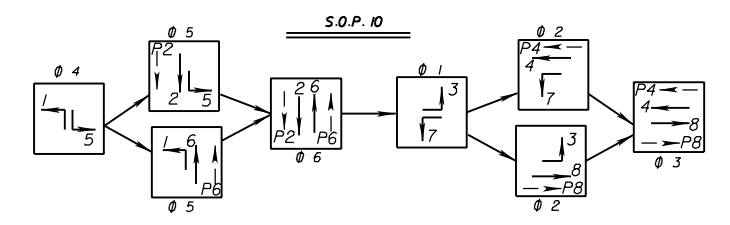
690-20	4 EA
690-70	8 EA
690-100	1 PI

T-5

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 6IG15-23.003, F.A.C.



- NOTES: ALL SIGNAL HEADS SHALL HAVE TUNNEL VISORS.
- CONTROLLER NOTES:
1. CONTROLLER - NEMA, FULLY ACTUATED, 8 PHASE SOLID STATE INITIALLY OPERATED AS SOP 10 WITH FLASHER FEATURES.
 2. TYPE V CABINET TO BE USED.
 3. THE MAJOR STREET IS 7TH STREET. NEMA MOVEMENTS 1,2,5 AND 6. THE MINOR STREET IS S.R. 52 (MERIDIAN AVENUE), NEMA MOVEMENTS 3,4,7 AND 8.
 4. FLASHING OPERATION SHALL BE YELLOW FOR MOVEMENTS 2 AND 6 AND RED FOR MOVEMENTS 4 AND 8.
 5. THE CONTROLLER IS TO RUN CONCURRENT TIMING OF INITIAL AND PASSAGE.

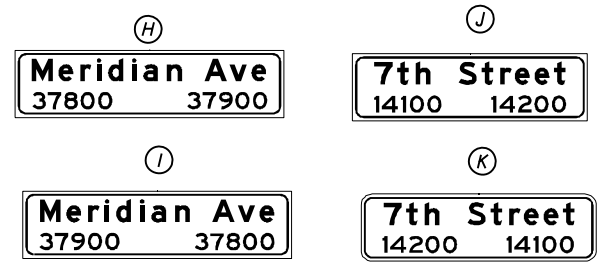


DETECTORS FOR LOOPS				
LOOP	NO. OF LOOPS	NO. OF NEW DETS.	NO. OF EXIST. DETS.	DELAY TIME (SEC)
L-1D	1	1	1	5
L-2	1	1	1	
L-3	1	1	1	
L-4	1	1	1	
L-5D	1	1	1	5
L-6	1	1	1	
L-7	1	1	1	
L-8	1	1	1	
L-				
L-				

DELAY TIME IS INITIAL AND MAY REQUIRE FIELD ADJUSTING AS DIRECTED BY PROJECT ENGINEER.

CONTROLLER TIMINGS									
TIMING FUNCTION									
TIMING FUNCTION	MOVEMENT NUMBER	1	2	3	4	5	6	7	8
	MINIMUM GREEN	7	15	7	15	7	15	7	15
	EXTENSION	3	3	3	3	3	3	3	3
	MAXIMUM GREEN 1	15	40	15	40	15	40	15	40
	MAXIMUM GREEN 2								
	YELLOW CLEARANCE	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
	ALL RED	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
	PEDESTRIAN WALK	7					7		7
TIMING FUNCTION	PED. CLEARANCE	22					22		22
	RECALL		MIN				MIN		

STREET NAME SIGNS ON POLE1/ARM1 & POLE2/ARM2 SHALL BE SINGLE SIDED.



SEE SHEETS T-11, T-16, T-17

NOTE: ALL INTERNALLY ILLUMINATED STREET NAME SIGNS SHALL BE LED EDGE LIT, AND SHALL BE FDOT APPROVED PRODUCT.

REVISIONS				REVISIONS			
DATE	BY	DESCRIPTION		DATE	BY	DESCRIPTION	
04/04/08	RR	MOVED TYPE F LOOPS MOVED CONDUIT AROUND THE INLET					

BES Inc
CONSTRUCTION ENGINEERS
Dilip K. Mundkur, P.E. No. 49031

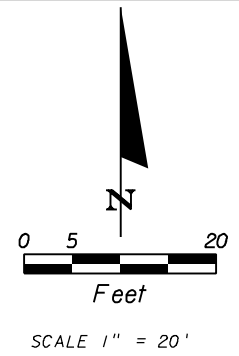
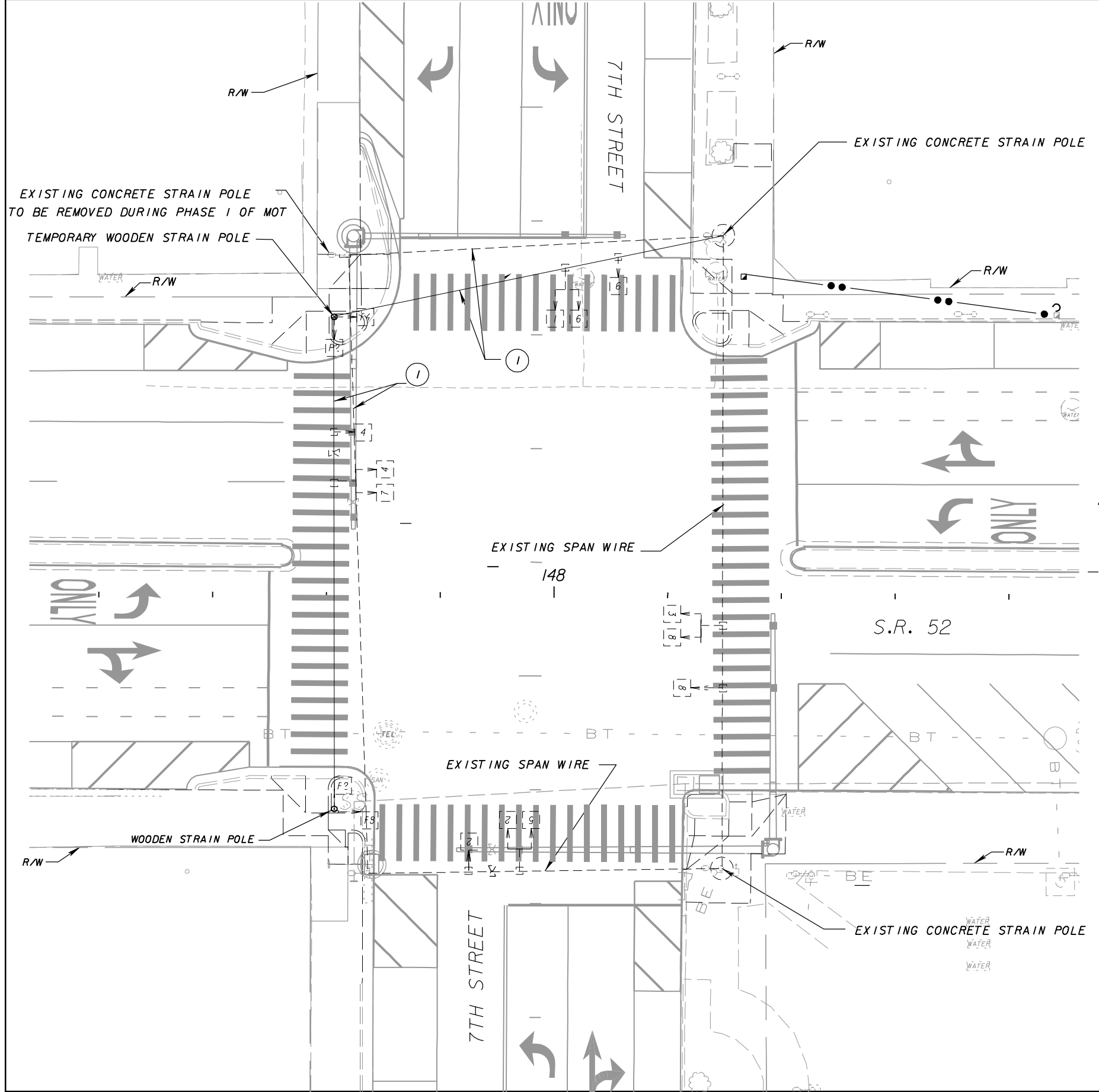
11007 N. 56th St., #208
Temple Terrace, FL 33617
C.A. No. 9835

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
S.R. 52	PASCO	406550-1-52-01

SIGNALIZATION PLAN SHEET

SHEET NO.
T-6

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.



- ① EXISTING SPAN WIRE TO BE RELOCATED TO THE TEMPORARY WOODEN POLE
SPAN WIRES ON THE NORTHWEST AND SOUTHWEST CORNERS
- NOTES:
1. THIS SHEET IS NEEDED FOR TEMPORARY TRAFFIC SIGNAL INSTALLATION DURING PHASE 1 CONSTRUCTION.
2. COST TO BE INCLUDED UNDER THE TEMPORARY TRAFFIC DETECTION PAY ITEM NUMBER 102-107.

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

BES INC.
TRANSPORTATION ENGINEERS
Dilip K. Mundkur, P.E. No. 49031

11007 N. 56th St., #208
Temple Terrace, FL 33617
C.A. No. 9835

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
S.R. 52	PASCO	406550-1-52-01

**TEMPORARY SIGNAL
PLAN SHEET (PHASE 1)**

SHEET NO.
T-7

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 60G15-23.003, F.A.C.

WM FILE NO. B-

STANDARD MAST ARM ASSEMBLIES DESIGN TABLE																	
STRUCTURE ID NUMBERS	ASSEMBLY NUMBERS ⁽¹⁾	FIRST ARM			SECOND ARM			UF (deg)	LL (deg)	POLE				SPECIAL DRILLED SHAFT DATA ⁽⁴⁾			
		ARM TYPE	FAA ⁽²⁾ (ft.)	FBA ⁽²⁾ (In.)	ARM TYPE	FAA ⁽²⁾ (ft.)	FBA ⁽²⁾ (In.)			POLE TYPE	UAA ⁽³⁾ (ft.)	UB (ft.)	UCA ⁽³⁾ (In.)	DA (ft.)	DB (ft.)	RA	RB
1 (T-6)	B5 - B4 - Q4	B5			B4			90		Q4	23	2I	2I.78				
2 (T-6)	B5 - B4 - Q4	B5			B4			90		Q4	23	2I	2I.78				

TABLE NOTES:

- (1) ASSEMBLY NUMBER LEGEND

SINGLE ARM:

ARM TYPE - POLE TYPE = B# - Q#

= C# - R#

DOUBLE ARM:

FIRST ARM TYPE - SECOND ARM TYPE - POLE TYPE = B# - B# - Q#

= C# - C# - R#
- (2) IF AN ENTRY APPEARS IN CLUMNS "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 "FAA" AND THE TIP DIAMETER SHALL BE INCREASED FROM "FB" TO "FBA".
- (3) 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".
- (4) THE FOUNDATIONS FOR STANDARD MAST ARM ASSEMBLIES ARE PRE-DESIGNED AND ARE BASED UPON THE FOLLOWING CONSERVATIVE SOIL CRITERIA WHICH COVERS THE GREAT MAJORITY OF SOIL TYPES FOUND IN FLORIDA. ONLY COMPLETE THE "SPECIAL DRILLED SHAFT DATA" INFORMATION IF SITE CONDITIONS DICTATE SHAFTS IN SOILS WITH LESSER STRENGTH PROPERTIES.

CLASSIFICATION = COHESIONLESS (FINE SAND)
FRICTION ANGLE = 30 DEGREES
UNIT WEIGHT = 50 LBS./CU.FT. (ASSUMED SATURATED)

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 THIS SHEET WITH DESIGN STANDARDS INDEX NOS. I7743 AND I7745 AS NECESSARY.

(3) THE PRE-DESIGNED FOUNDATIONS HAVE BEEN CHECKED FOR THE ACTUAL LOADS AND ACTUAL SOIL PARAMETERS AND HAVE BEEN DETERMINED SATISFACTORY.

ACTUAL SOIL PARAMETERS:

CLASSIFICATION = COHESIONLESS (FINE SAND)

FRICTION ANGLE = 29 DEGREES

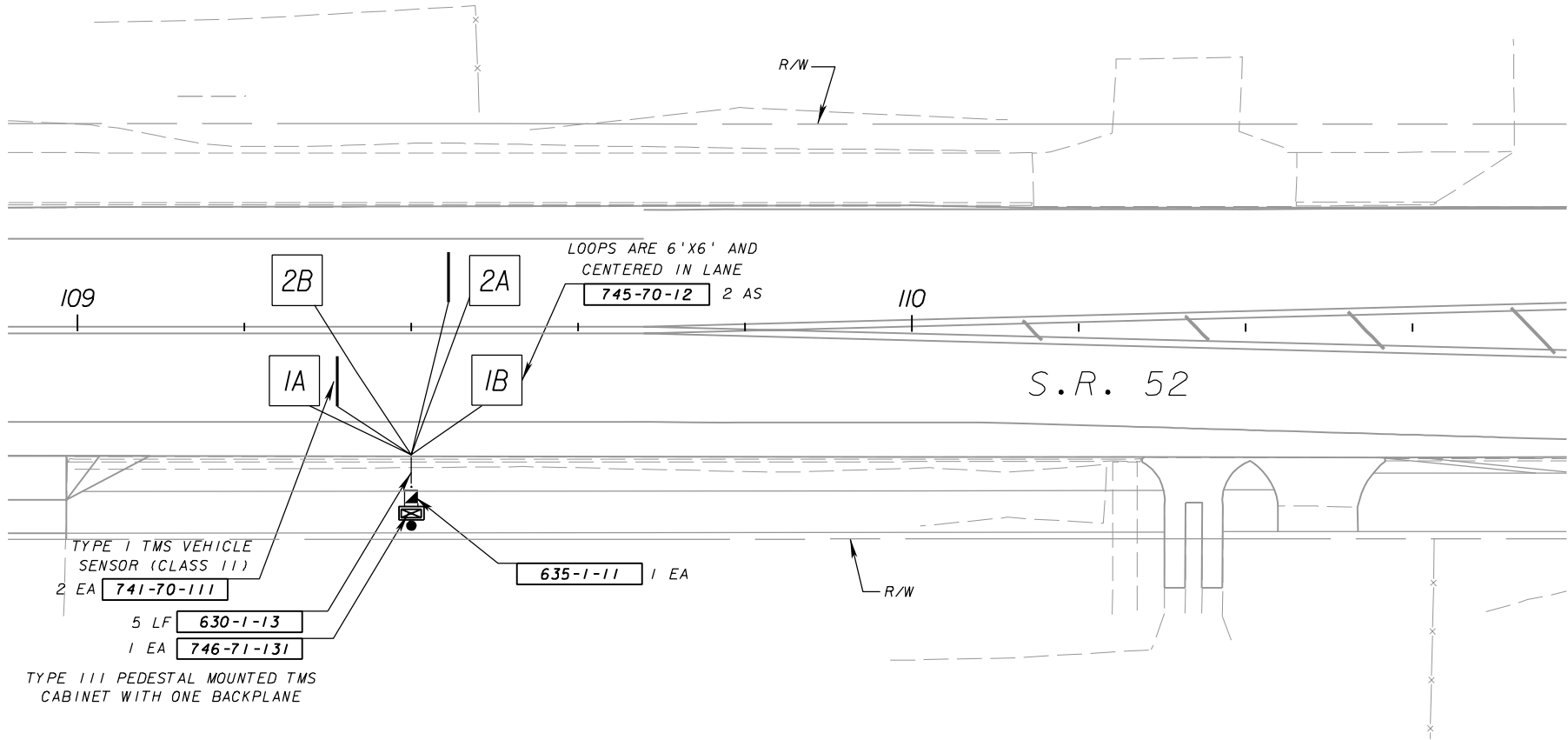
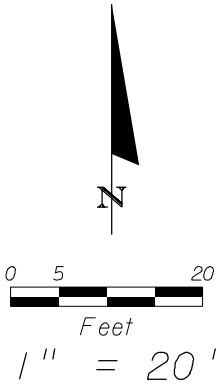
UNIT WEIGHT = 42.6 LBS./CU.FT. (ASSUMED SATURATED)

REVISIONS						EOR: RALPH VERRASTRO, P.E. NO. 39784 DELTA ENGINEERS, PC - CERTIFICATE OF AUTHORIZATION • 9770  11602 N. 51ST STREET, SUITE 200 TAMPA, FLORIDA 33617-2132	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			TABLE OF VARIABLES FOR STANDARD MAST ARM ASSEMBLIES INDEX NO. S-1700	SHEET NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
							S.R. 52	PASCO	406550-1-52-01		T-9

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.

GENERAL NOTES:

- A. PORTABLE TRAFFIC MONITORING SITE (PTMS) TO BE MAINTAINED BY F.D.O.T. THE CONTRACTOR SHALL SUBMIT AT LEAST A COPY OF THE AS-BUILT PLANS TO THE ENGINEER DURING FINAL INSPECTION.
- B. THE CONTRACTOR SHALL USE THE STANDARD INDEX I7900 FOR INSTALLATION OF TRAFFIC MONITORING SITES.
- C. THE CONTRACTOR SHALL NOTIFY MS. RUBIE FRASE IN THE DISTRICT PLANNING OFFICE AT (813)975-6413 AT LEAST SEVEN WORKING DAYS PRIOR TO INSTALLATION OF TRAFFIC MONITORING SITES.
- D. PULL BOXES SHALL BE CONCRETE WITH STEEL LOCKING LID AND SHALL BE LISTED IN THE DEPARTMENT'S APPROVED PRODUCT LIST.
- E. VEHICLE SENSORS SHALL BE PLACED PERPENDICULAR TO THE LANES.
- F. INDUCTIVE LOOP AND VEHICLE SENSOR WIRES SHALL BE LABELED BOTH IN THE PULL BOXES AND THE CABINET.
- G. WHEN PLACING INDUCTIVE LOOPS AND VEHICLE SENSORS IN CONCRETE PAVEMENT, THEY SHALL NOT CROSS EXPANSION JOINTS. THE LOOPS AND THE SENSORS CAN BE STAGGERED ACROSS THE LANES TO AVOID CROSSING EXPANSION JOINTS.



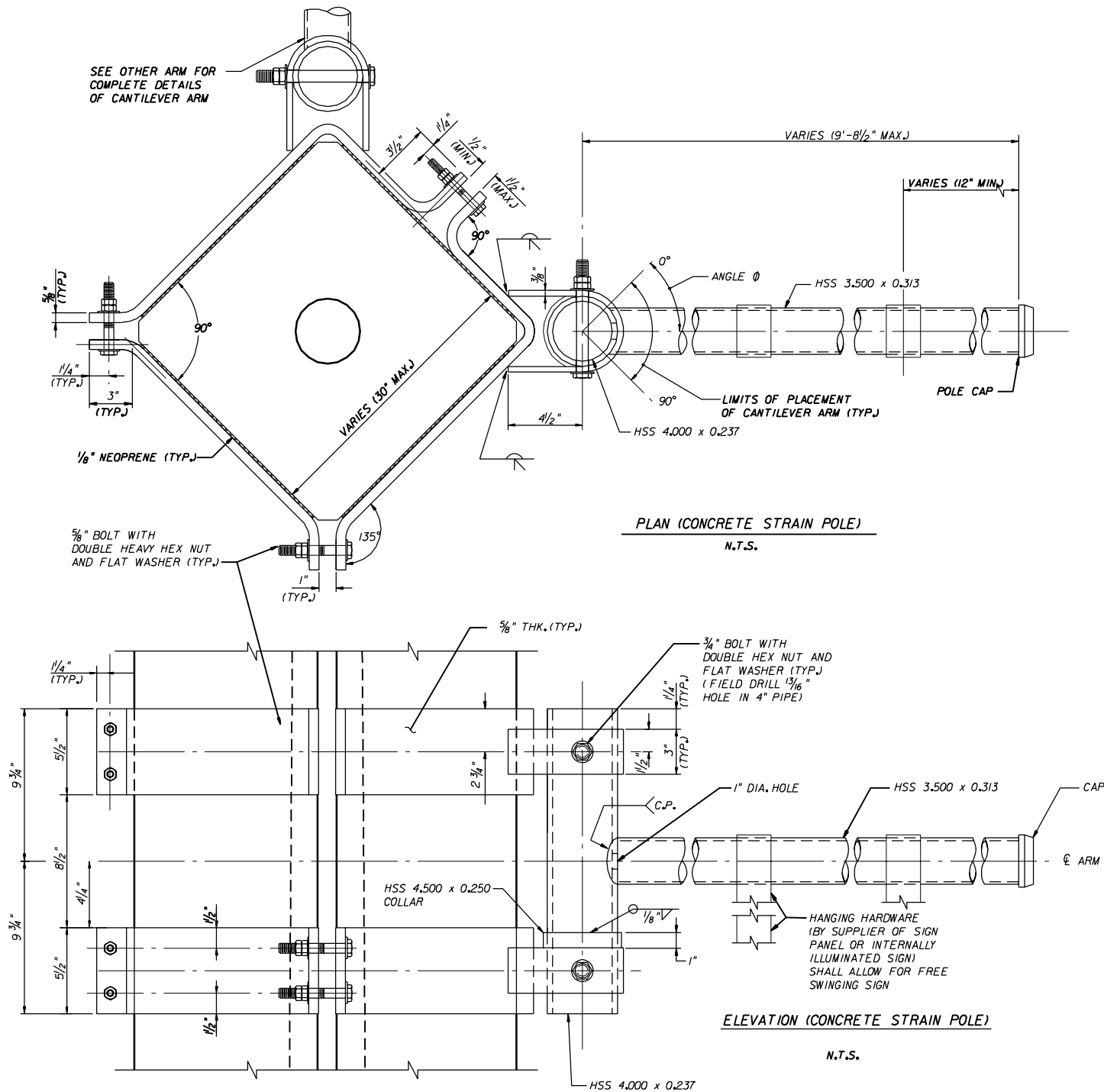
PORTABLE TRAFFIC MONITORING SITE 0107
STA. 109+40 ; M.P. 32.42

REVISIONS						BES INC.11007 N. 56th St., #208 Temple Terrace, FL 33617 C.A. No. 9835 TRANSPORTATION ENGINEERS Dilip K. Mundkur, P.E. No. 49031	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			PORTABLE TRAFFIC MONITORING SITE DETAILS		SHEET NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID			T-10
							S.R. 52	PASCO	406550-1-52-01			

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 60G15-23.003, F.A.C.

NOTES:

1. CONTRACTOR SHALL VERIFY THE POLE TYPE AND THE DIMENSIONS OF THE POLE AT THE POINT OF INSTALLATION OF THE SIGN BRACKET AND ANGLE BEFORE MANUFACTURING SIGN BRACKET. THE CONTRACTOR SHALL VERIFY ANGLE, ϕ , PRIOR TO FIELDING DRILLING $\frac{1}{16}$ " HOLE IN 4" PIPE.
2. DESIGN WIND SPEED = 100 MPH.
WORKING LOADS FROM THE INTERNALLY ILLUMINATED SIGN AND CANTILEVER ARM AT THE CENTER OF THE VERTICAL PIPE ARE AS FOLLOWS:
HORIZONTAL MOMENT = 4850 FT LBS
VERTICAL MOMENT = 1240 FT LBS
HORIZONTAL SHEAR = 920 LBS
VERTICAL SHEAR = 240 LBS
3. THE CONTRACTOR MAY PROPOSE AN ALTERNATIVE SIGN BRACKET ARM IN PLACE OF THE DESIGN ON THIS SHEET AT NO ADDITIONAL COST TO THE DEPARTMENT. THE CONTRACTOR'S ALTERNATIVE SHALL BE DESIGNED IN ACCORDANCE WITH THE LATEST EDITION OF THE DEPARTMENT'S PLANS PREPARATION MANUAL AND THE 1994 EDITION OF AASHTO'S STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS WITH APPLICABLE INTERIMS. THE DESIGN AND THE SHOP DRAWINGS SHALL BE PREPARED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF FLORIDA AND SHALL BE SUBMITTED BY THE CONTRACTOR TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.
4. ALL STRUCTURAL STEEL EXCEPT FOR STRUCTURAL TUBING SHALL CONFORM TO ASTM A572 GR 50. STRUCTURAL TUBING SHALL CONFORM TO ASTM DESIGNATION A500 GRADE B.
5. ALL BOLTS SHALL BE HIGH STRENGTH A325 BOLTS AND SHALL RECEIVE ELECTRODEPOSITED COATING IN ACCORDANCE WITH ASTM B633.
6. COMPLETE ASSEMBLY SHALL BE HOT-DIPPED GALVANIZED IN ACCORDANCE WITH ASTM DESIGNATION A123.
7. WELD DETAILS AND THE OPERATION OF WELDING SHALL BE IN ACCORDANCE WITH THE CURRENT EDITION OF THE ANSI/AASHTO/AWS D1.5 BRIDGE WELDING CODE. HOLLOW STRUCTURAL SECTION CONNECTIONS SHALL ALSO MEET THE REQUIREMENTS OF AWS D1.1 CHAPTER 10. ELECTRODES SHALL HAVE A 70 KSI MINIMUM TENSILE STRENGTH.
8. NO FIELD WELDING SHALL BE PERMITTED.
9. SIGN TO BE LEVEL AFTER INSTALLATION.
10. ALL MATERIALS AND LABOR REQUIRED TO FURNISH AND INSTALL THE SIGN BRACKET SHALL BE INCLUDED IN PAY ITEM 699-1-1.



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

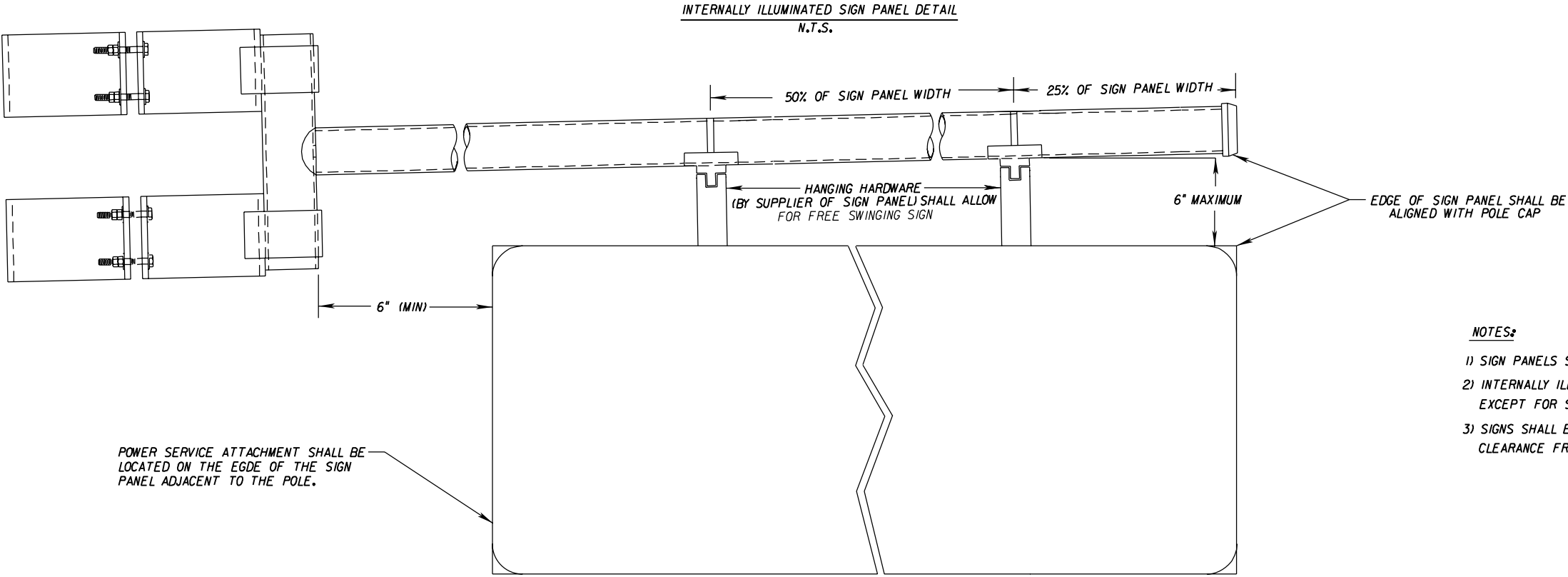
BES INC.
TRANSPORTATION ENGINEERS
Dilip K. Mundkur, P.E. No. 49031

11007 N. 56th St., #208
Temple Terrace, FL 33617
C.A. No. 9835

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 52	PASCO	406550-1-52-01

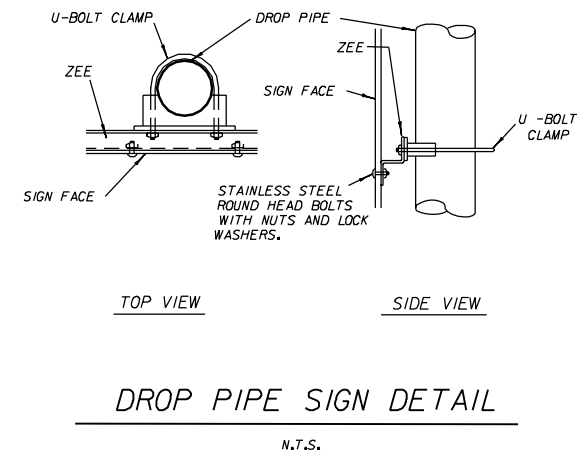
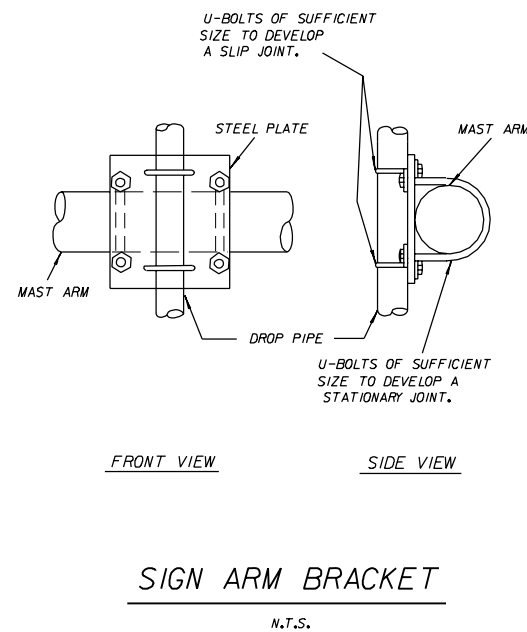
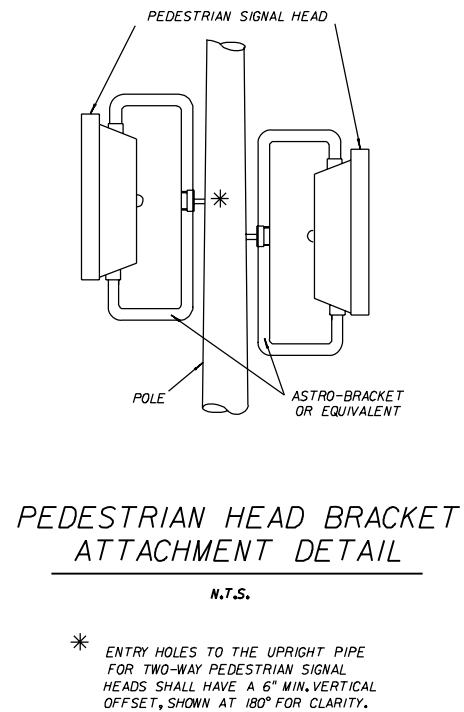
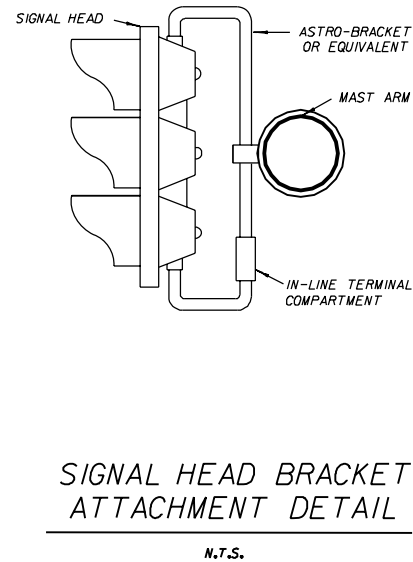
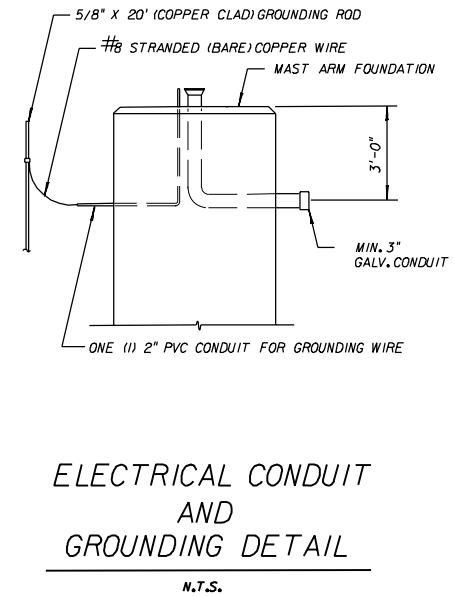
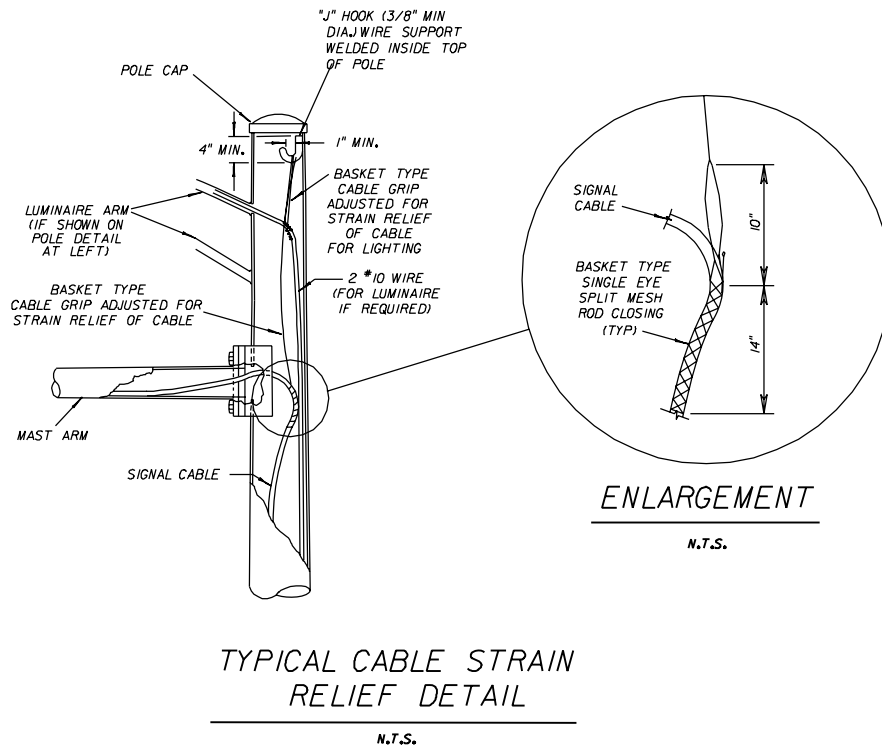
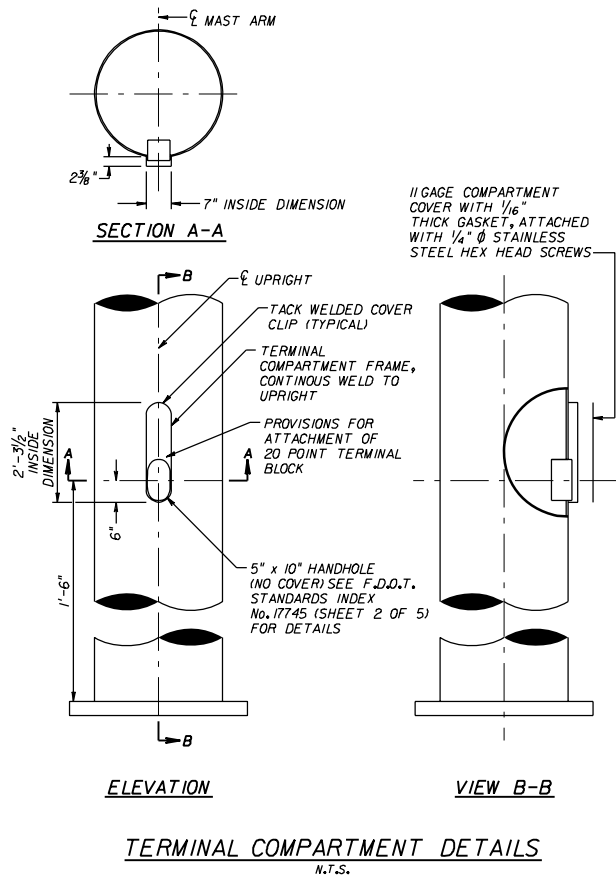
**SPECIAL BRACKETT ARM
TWO WAY**

SHEET
NO.
T-II



- NOTES:**
- 1) SIGN PANELS SHALL BE LEVEL AFTER INSTALLATION.
 - 2) INTERNALLY ILLUMINATED PANELS SHALL BE TWO SIDED EXCEPT FOR SIGN 'C' - 21ST STREET (SHEET T-4)
 - 3) SIGNS SHALL BE MOUNTED SUCH THAT THE VERTICAL CLEARANCE FROM TOP OF PAVEMENT BELOW SIGN IS 17.5'.

REVISIONS						BES INC.11007 N. 56th St., #208 Temple Terrace, FL 33617 C.A. No. 9835 Dilip K. Mundkur, P.E. No. 49031	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SIGN BRACKET ARM DETAILS TWO WAY	SHEET NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
							S.R. 52	PASCO	406550-1-52-01		T-12



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

BES Inc.
TRANSPORTATION ENGINEERS
Dilip K. Mundkur, P.E. No. 49031

11007 N. 56th St., #208
Temple Terrace, FL 33617
C.A. No. 9835

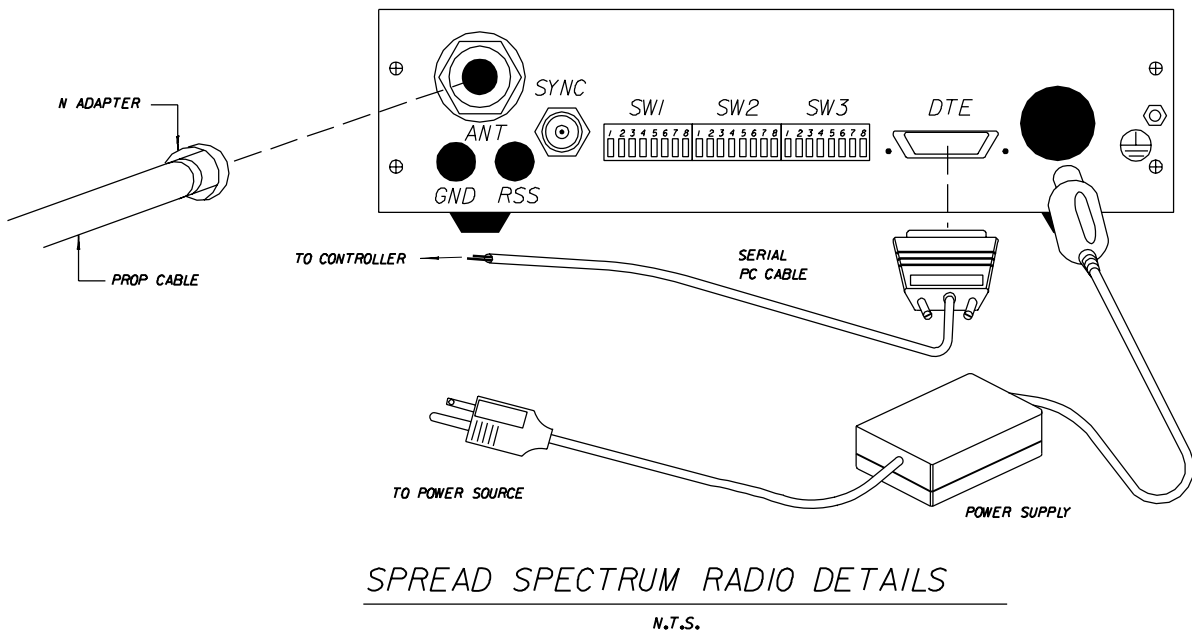
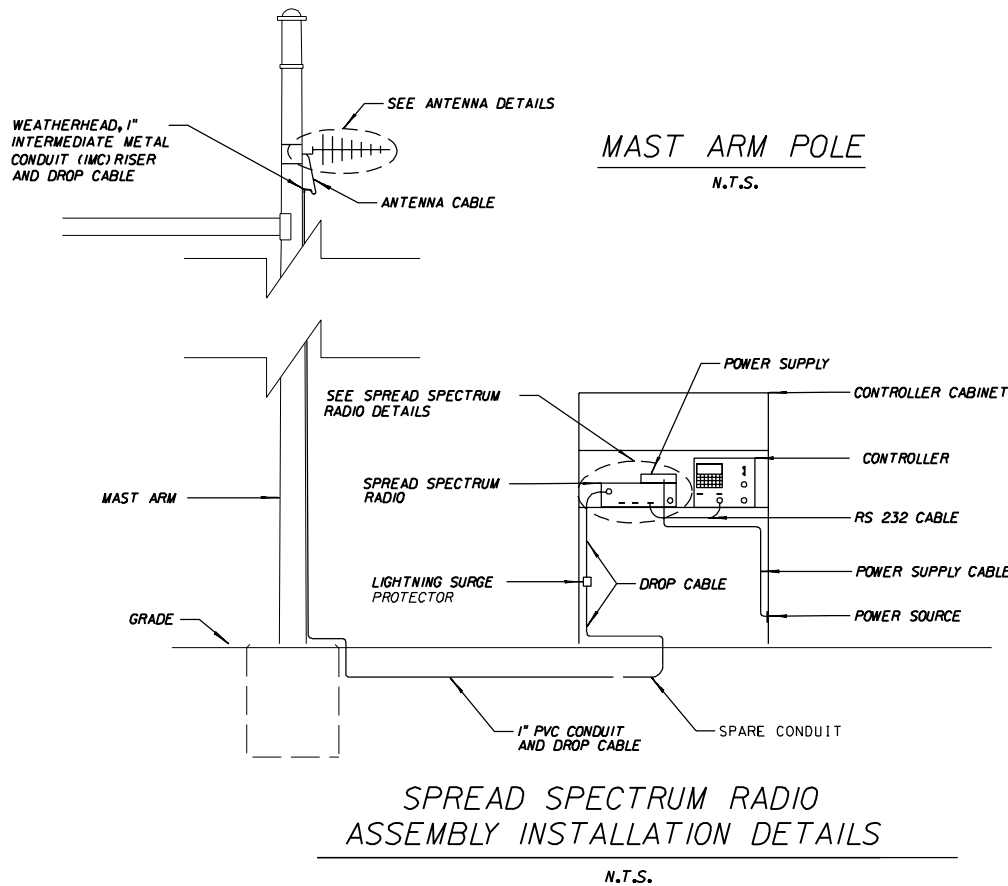
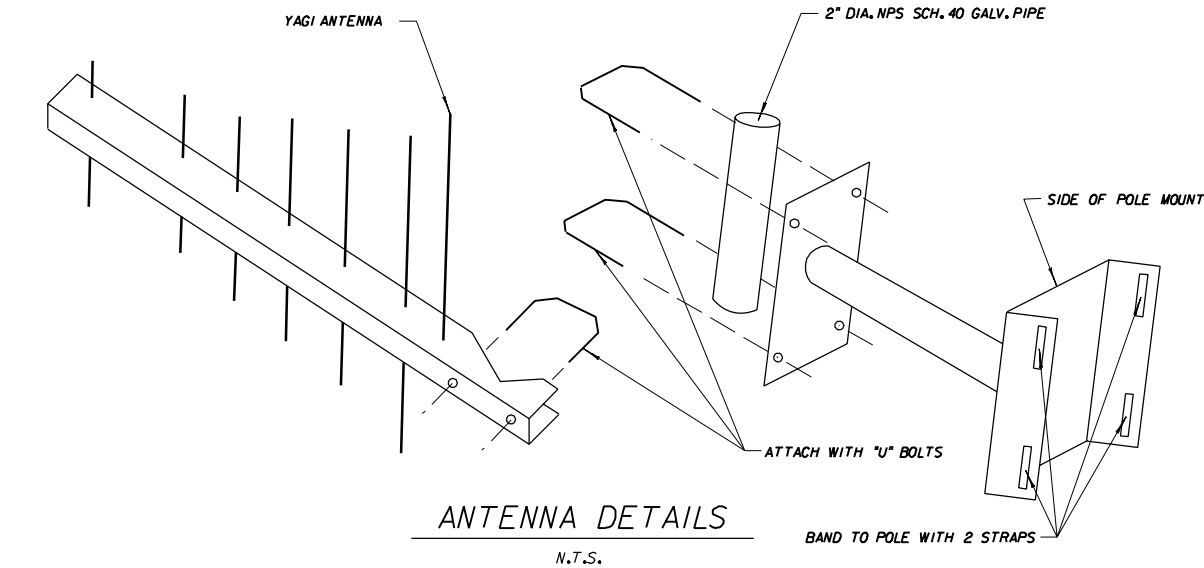
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
S.R. 52	PASCO	406550-1-52-01

**CANTILEVER SIGNAL STRUCTURES
MISCELLANEOUS DETAILS**

SHEET NO.
T-13

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 60G15-23.003, F.A.C.

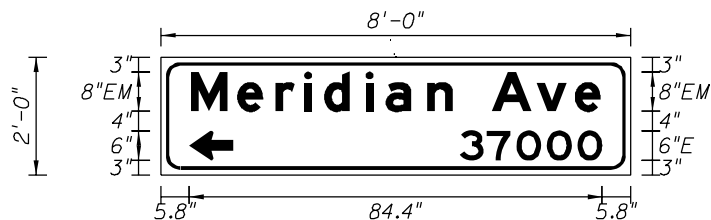
NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.



NOTE: THE CONTRACTOR SHALL CONTACT PASCO COUNTY TO OBTAIN THE CORRECT ALIGNMENT OF ANTENNA WHEN INSTALLING THE ANTENNA.

REVISIONS						BES Inc. TRANSPORTATION ENGINEERS Dilip K. Mundkur, P.E. No. 49031	11007 N. 56th St., #208 Temple Terrace, FL 33617 C.A. No. 9835	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SPREAD SPECTRUM RADIO ASSEMBLY TYPICAL CONFIGURATION DETAILS		SHEET NO. T-14
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION			ROAD NO.	COUNTY	FINANCIAL PROJECT ID			
								S.R. 52	PASCO	406550-1-52-01			

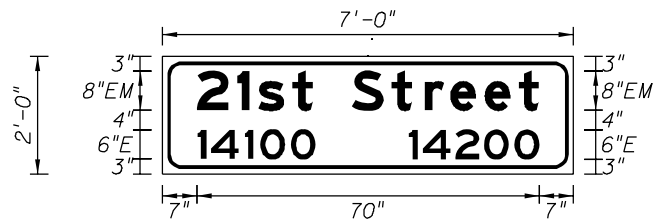
SIGN NAME		Sign A		STATION(S)	
QUANTITY		2		1 none	
WIDTH		8'-0"		2	
HEIGHT		2'-0"		3	
BORDER WIDTH		0.75"		4	
BORDER RADII		3"		5	
PANEL COLOR		Reflective Green			
LEGEND		Reflective White			
BORDER		White			
SYMBOL(S)	ANGLE	X	Y	WID	HT
ARUP	90	5.8	3	6	9
SIGN NUMBER	CLEARANCE EDGE OF LANE	COLUMN SIZE		AVERAGE LENGTH	



BORDER INSET = 1"

[illegible]

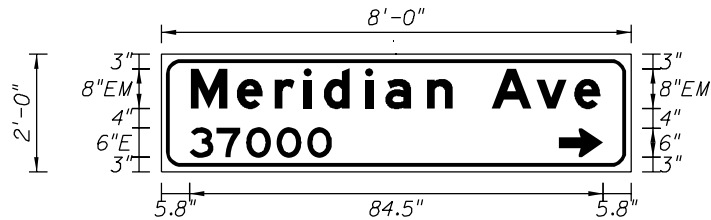
SIGN NAME	Sign C	STATION(S)			
QUANTITY	1	1	none		
WIDTH	7'-0"	2			
HEIGHT	2'-0"	3			
BORDER WIDTH	0.75"	4			
BORDER RADII	3"	5			
PANEL COLOR	Reflective Green				
LEGEND	Reflective White				
BORDER	White				
SYMBOL(S)	ANGLE	X	Y	WID	HT
SIGN NUMBER	CLEARANCE EDGE OF LANE	COLUMN SIZE		AVERAGE LENGTH	



BORDER INSET = 1"

[illegible]

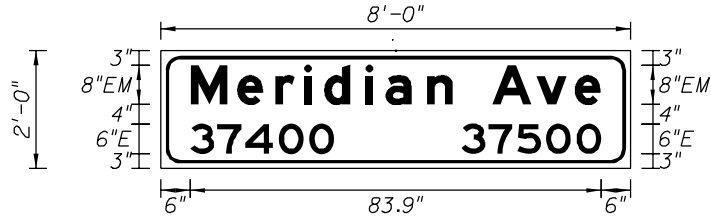
SIGN NAME	Sign B	STATION(S)			
QUANTITY	2	1	none		
WIDTH	8'-0"	2			
HEIGHT	2'-0"	3			
BORDER WIDTH	0.75"	4			
BORDER RADII	3"	5			
PANEL COLOR	Reflective Green				
LEGEND	Reflective White				
BORDER	White				
SYMBOL(S)	ANGLE	X	Y	WID	HT
ARUP	270	Bl-2	2.9	6	9
SIGN NUMBER	CLEARANCE EDGE OF LANE	COLUMN SIZE		AVERAGE LENGTH	



BORDER INSET = 1"

[illegible]

SIGN NAME	Sign D	STATION(S)			
QUANTITY	2	1	none		
WIDTH	8'-0"	2			
HEIGHT	2'-0"	3			
BORDER WIDTH	0.75"	4			
BORDER RADII	3"	5			
PANEL COLOR	Reflective Green				
LEGEND	Reflective White				
BORDER	White				
SYMBOL(S)	ANGLE	X	Y	WID	HT
SIGN NUMBER	CLEARANCE EDGE OF LANE	COLUMN SIZE		AVERAGE LENGTH	



BORDER INSET = 1"

[illegible]

R E V I S I O N S					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

BES INC. 11007 N. 56th St., #208
TRANSPORTATION ENGINEERS Temple Terrace, FL 33617
Dilip K. Mundkur, P.E. No. 49031 C.A. No. 9835

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 52	PASCO	406550-1-52-01

GUIDE SIGN WORK SHEET

SHEET
NO.

T-15

SIGN NAME		Sign 1		STATION(S)		
QUANTITY		2		1 none		
WIDTH		8'-0"		2		
HEIGHT		2'-0"		3		
BORDER WIDTH		0.75"		4		
BORDER RADII		3"		5		
PANEL COLOR		Reflective Green				
LEGEND		Reflective White				
BORDER		White				
SYMBOL(S)		ANGLE	X	Y	WID	HT

[illegible]

SIGN NAME	Sign K	STATION(S)			
QUANTITY	2	1	none		
WIDTH	7'-0"	2			
HEIGHT	2'-0"	3			
BORDER WIDTH	0.75"	4			
BORDER RADII	3"	5			
PANEL COLOR	Reflective Green				
LEGEND	Reflective White				
BORDER	White				
SYMBOL(S)	ANGLE	X	Y	WID	HT
SIGN NUMBER	CLEARANCE EDGE OF LANE	COLUMN SIZE		AVERAGE LENGTH	

[illegible]

SIGN NAME		Sign J		STATION(S)		
QUANTITY		2		1 none		
WIDTH		7'-0"		2		
HEIGHT		2'-0"		3		
BORDER WIDTH		0.75"		4		
BORDER RADII		3"		5		
PANEL COLOR		Reflective Green				
LEGEND		Reflective White				
BORDER		White				
SYMBOL(S)		ANGLE	X	Y	WID	HT

[illegible]

SIGN NAME		STATION(S)			
QUANTITY		1			
WIDTH		2			
HEIGHT		3			
BORDER WIDTH		4			
BORDER RADII		5			
PANEL COLOR					
LEGEND					
BORDER					
SYMBOL(S)	ANGLE	X	Y	WID	HT
SIGN NUMBER	CLEARANCE EDGE OF LANE	COLUMN SIZE		AVERAGE LENGTH	

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R E V I S I O N S					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

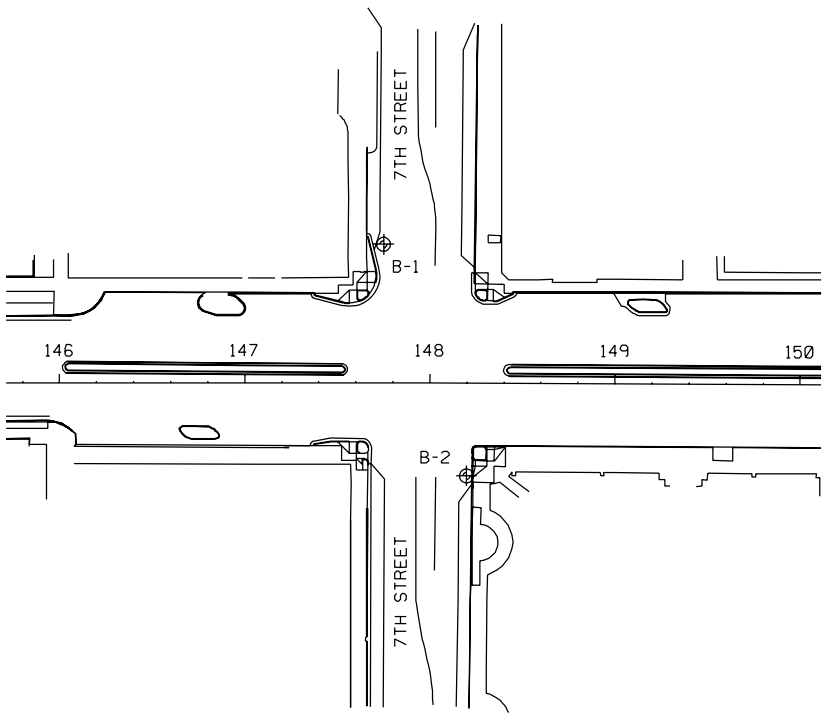
BES INC. 11007 N. 56th St., #208
 TRANSPORTATION ENGINEERS Temple Terrace, FL 33617
 C.A. No. 9835
 Dilip K. Mundkur, P.E. No. 49031

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 52	PASCO	406550-1-52-01

GUIDE SIGN WORK SHEET

SHEET
NO.

T-17

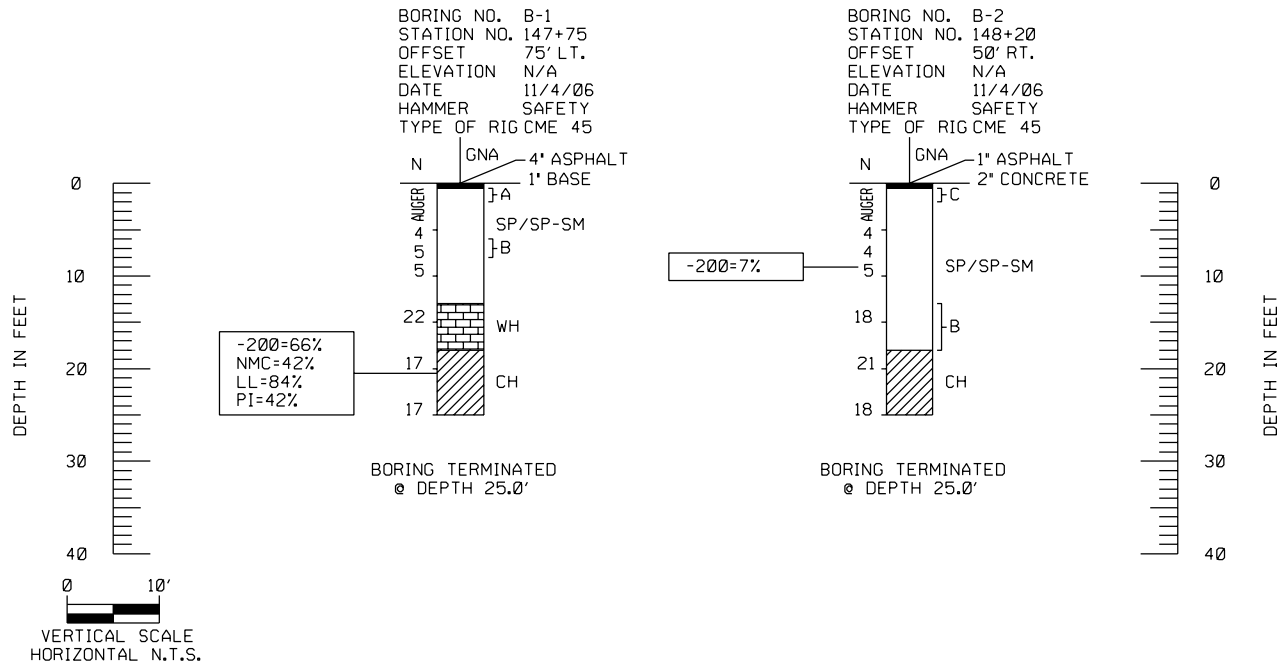


BORING LOCATION PLAN



LOCATION	
TOWNSHIP:	24 S
RANGE:	21 E
SECTION:	27

SOIL PARAMETERS									
BORING NUMBER	DEPTH (FEET)	SPT "N" RANGE	SOIL CLASSIFICATION	APPROXIMATE SOIL UNIT WEIGHT (PCF)		SOIL ANGLE OF FRICTION (DEGREES)	COHESION (PSF)	EARTH PRESSURE COEFFICIENT	
				γ SAT	γ SUBMERGED			ACTIVE (K _a)	PASSIVE (K _p)
B-1	0-13	4-5	SP/SP-SM	105.0	42.6	29	0	0.347	2.88
	13-18	22	WH	135.0	72.6	0	3000	1.000	1.00
	18-25	17	CH	125.0	62.6	0	2000	1.000	1.00
B-2	0-13	4-5	SP/SP-SM	105.0	42.6	29	0	0.347	2.88
	13-18	18	SP/SP-SM	110.0	47.6	30	0	0.333	3.00
	18-25	18-21	CH	125.0	62.6	0	2000	1.000	1.00



LEGEND

- PAVEMENT (ASPHALT AND BASE MATERIALS)
- (SP/SP-SM), GRAY, ORANGE-BROWN, BROWN CLEAN TO SLIGHTLY SILTY FINE SAND
- (WH), GRAY/BROWN HIGHLY WEATHERED LIMESTONE WITH SAND
- (CH), GRAY, ORANGE-YELLOW SANDY CLAY TO CLAY

- A WITH ROCK FRAGMENTS
- B WITH CEMENTED SAND
- C WITH SHELL FRAGMENTS

NOTES:

- BORING STATIONS AND OFFSETS WERE ESTIMATED FROM THE SITE PLAN PROVIDED AND SHOULD BE CONSIDERED TO BE APPROXIMATE.
- ELEVATION DATA WAS NOT PROVIDED. THE REPORT OF CORE BORING SHEET CAN BE UPDATED IF ELEVATION DATA BECOMES AVAILABLE.

GNA GROUNDWATER LEVEL NOT APPARENT

NUMBERS TO THE LEFT OF BORINGS INDICATE SPT VALUE FOR 12" PENETRATION. (UNLESS OTHERWISE NOTED.)

-200 FINES PASSING NO. 200 SIEVE (%)

NMC NATURAL MOISTURE CONTENT (%)

LL LIQUID LIMIT (%)

PI PLASTICITY INDEX (%)

⊕ APPROXIMATE SPT BORING LOCATION

ENVIRONMENTAL CLASSIFICATION

SUBSTRUCTURE: EXTREMELY AGGRESSIVE (ASSUMED)

GRANULAR MATERIALS-RELATIVE DENSITY	SPT (BLOWS/FT.)
VERY LOOSE	LESS THAN 4
LOOSE	4-10
MEDIUM	10-30
DENSE	30-50
VERY DENSE	GREATER THAN 50
SILTS AND CLAYS CONSISTENCY	SPT (BLOWS/FT.)
VERY SOFT	LESS THAN 2
SOFT	2-4
FIRM	4-8
STIFF	8-15
VERY STIFF	15-30
HARD	GREATER THAN 30

REVISIONS						NAMES		DATES		ENGINEER OF RECORD: PROFESSIONAL SERVICE INDUSTRIES, INC. 5801 BENJAMIN CENTER DR., SUITE 112 TAMPA, FL 33634 (813) 886-1075 FLORIDA ENGINEERING CERTIFICATE OF AUTHORIZATION No. 3684  LLOYD T. LASHER, JR., P.E. FLORIDA LICENSE No. 56794	FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET TITLE: CORE BORINGS REPORT					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DRAWN BY	DJG	11/06	ROAD NO.		COUNTY	FINANCIAL PROJECT ID	PROJECT NAME: MAST ARMS AT THE INTERSECTION OF MERIDIAN AVENUE AND 7TH STREET	SHEET NO. T-18					
						CHECKED BY	GC	11/06											
						DESIGNED BY													
						CHECKED BY													
						APPROVED BY	LLOYD T. LASHER, JR., P.E.		S.R. 52	PASCO	406550-1-52-01								
											ramesh			6/20/2007		11:44:14 AM		P:\406550 SR 52 (21st st - SR 533)\406550\signals\SLBRRD02.DGN	

CONTRACT PLANS COMPONENTS

ROADWAY

STATE OF FLORIDA

DEPARTMENT OF TRANSPORTATION

ROADWAY PLANS

FINANCIAL PROJECT ID 439832-5-52-01

PASCO COUNTY (14120)

COUNTY ROAD NO. 52

CR 52/MERIDIAN AVENUE/21ST STREET/SUWANNEE WAY/ST. JOE ROAD
ADD LANES AND RECONSTRUCT FROM CHURCH AVENUE TO SUWANNEE WAY

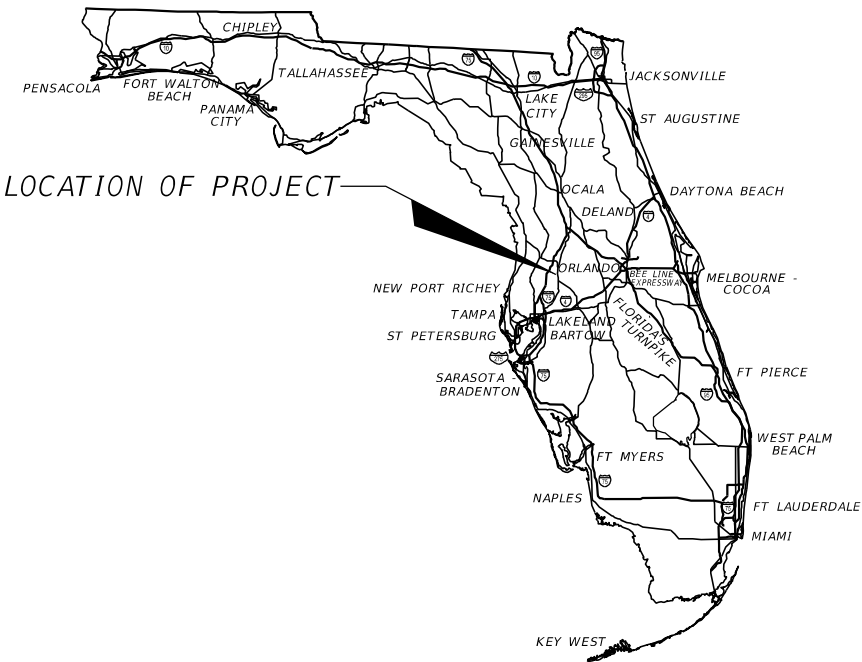
PROJECT LOCATION URL: <https://tinyurl.com/5n8p9ha4>

PROJECT LIMITS: BEGIN MP 32.128 TO END MP 32.290

EXCEPTIONS: NONE

BRIDGE LIMITS: NONE

RAILROAD CROSSING: NONE



INDEX OF ROADWAY PLANS

SHEET NO.	SHEET DESCRIPTION
1	KEY SHEET
2	SIGNATURE SHEET
#	DRAINAGE MAP
#	TYPICAL SECTIONS
#	TYPICAL SECTION DETAILS
#	MODEL MANAGEMENT
#	PROJECT CONTROL
#	GENERAL NOTES
#	ROADWAY PLAN
#	ROADWAY PROFILES
#	CROSS SECTIONS
#	UTILITY ADJUSTMENTS

GOVERNING STANDARD PLANS:

Florida Department of Transportation, FY2023-24 Standard Plans for Road and Bridge Construction and applicable Interim Revisions (IRs).

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

APPLICABLE IRs: N/A

Standard Plans for Bridge Construction are included in the Structures Plans Component

GOVERNING STANDARD SPECIFICATIONS:

Florida Department of Transportation, FY2023-24 Standard Specifications for Road and Bridge Construction at the following website: <http://www.fdot.gov/programmanagement/Implemented/SpecBooks>

ROADWAY PLANS

ENGINEER OF RECORD:

VINCENT E. SHINE, P.E.
P.E. LICENSE NUMBER 67387
KISINGER CAMPO & ASSOCIATES CORP.
201 N. FRANKLIN STREET, SUITE 400
TAMPA, FLORIDA 33602
(813) 871-5331
CONTRACT NO.: CAM21
VENDOR NO.: 59-1677145

FDOT PROJECT MANAGER:

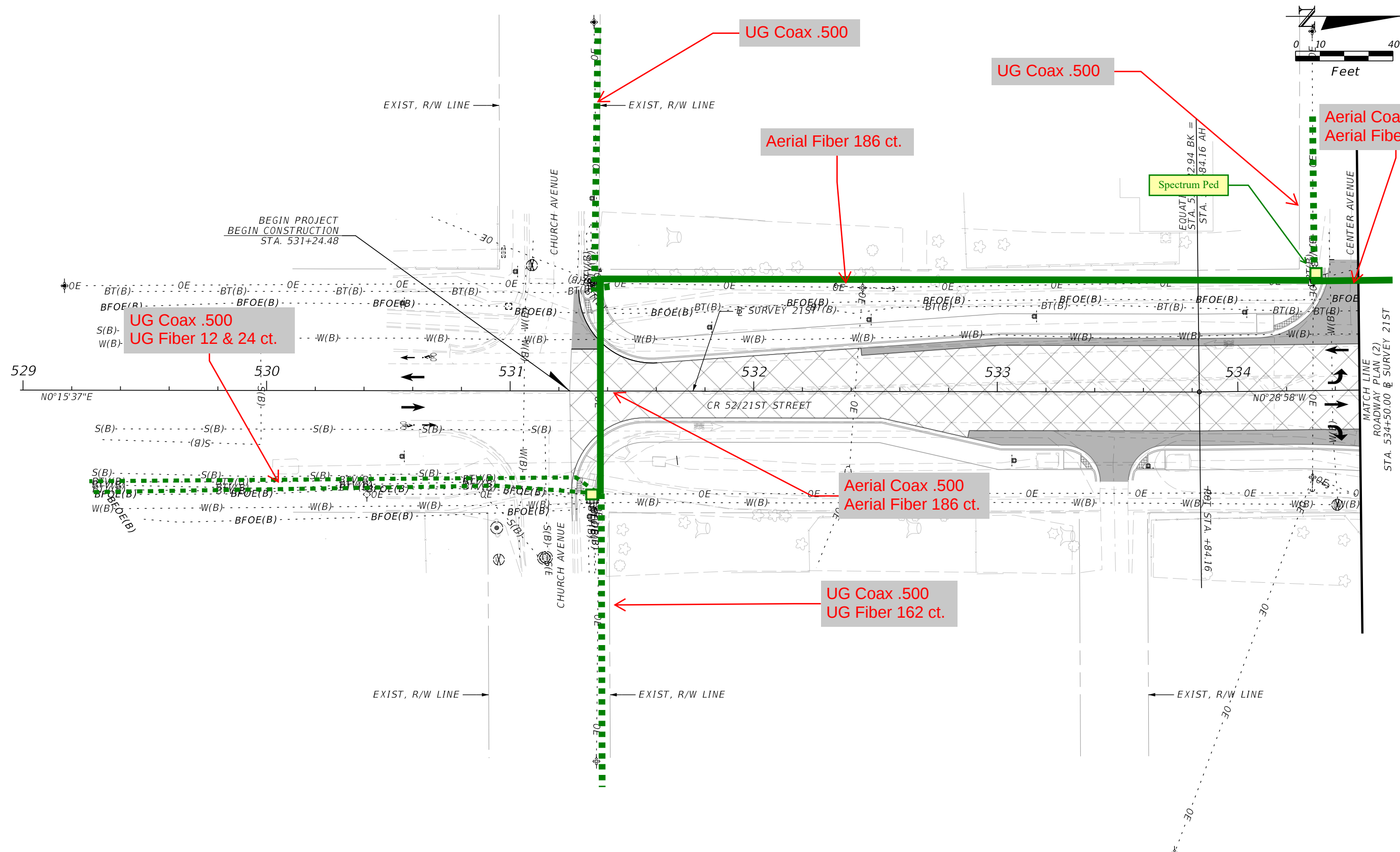
MARY LOU GODFREY, P.E.

GEC PROJECT MANAGER:

CHARLIE XIE, P.E.

CONSTRUCTION CONTRACT NO.	FISCAL YEAR	SHEET NO.
TBD	24	1

Charter Spectrum Coax and Fiber



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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ENGINEER OF RECORD	
VINCENT E. SHINE, P.E. LICENSE NUMBER: 67387 KISINGER CAMPO & ASSOCIATES CORP. 201 N. FRANKLIN STREET, SUITE 400 TAMPA, FL 33602	

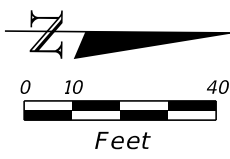
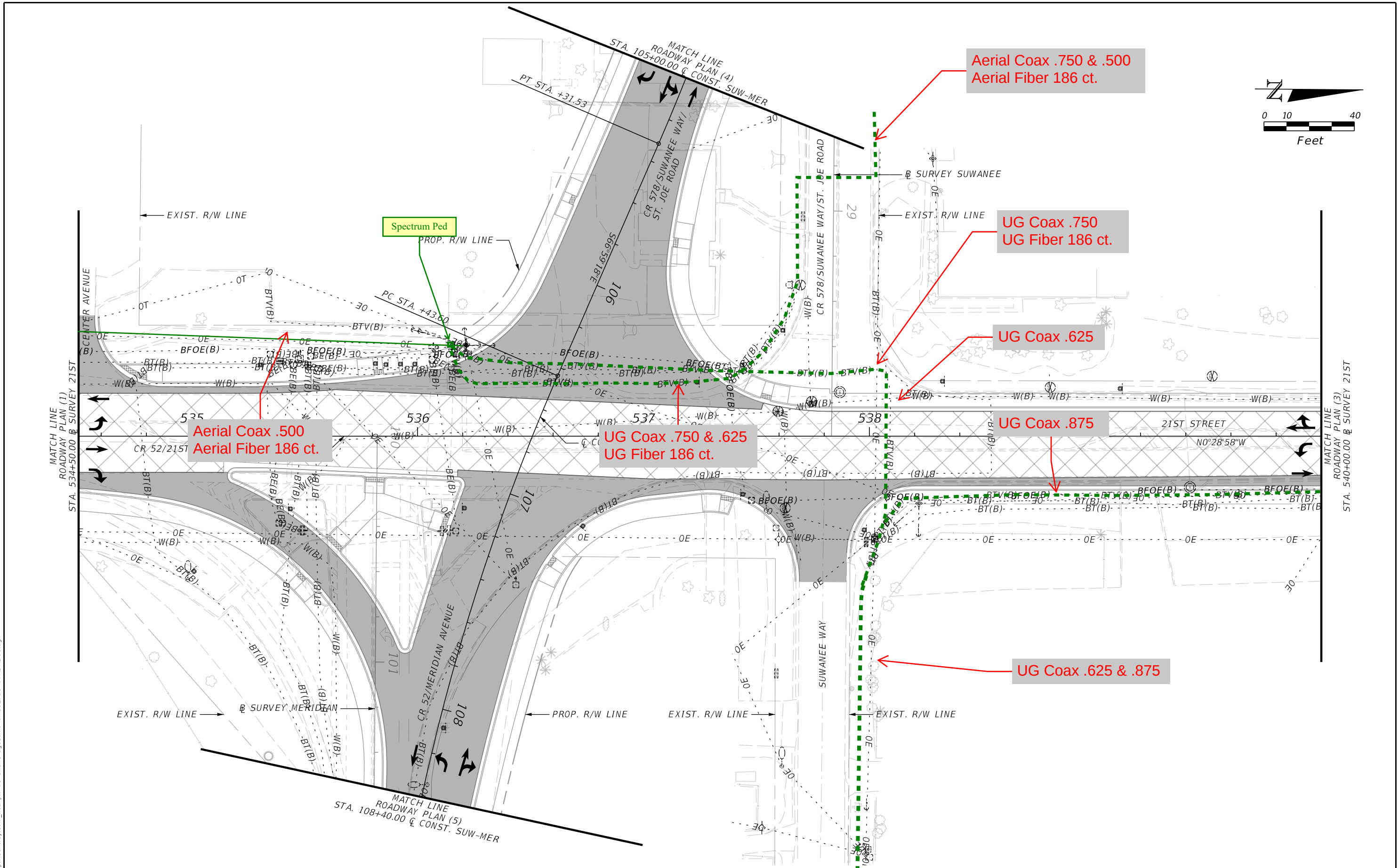
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
CR 52	PASCO	439832-5-52-01

UTILITY ADJUSTMENTS (1)	

SHEET NO.
X

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

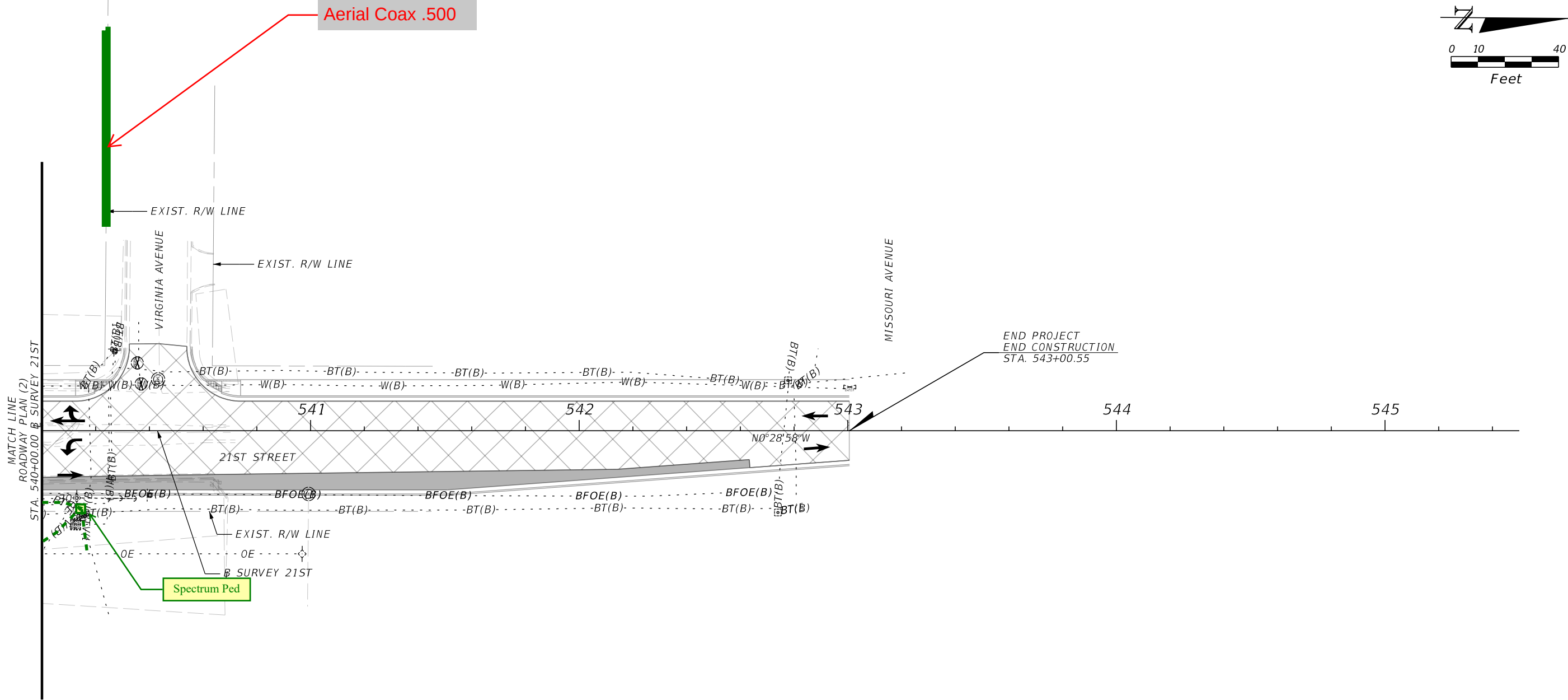
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REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			UTILITY ADJUSTMENTS (2)	SHEET NO. X
DATE	DESCRIPTION	DATE	DESCRIPTION	VINCENT E. SHINE, P.E. LICENSE NUMBER: 67387 KISINGER CAMPO & ASSOCIATES CORP. 201 N. FRANKLIN STREET, SUITE 400 TAMPA, FL 33602		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
						CR 52	PASCO	439832-5-52-01		

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

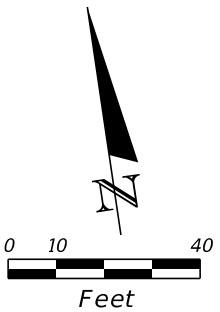
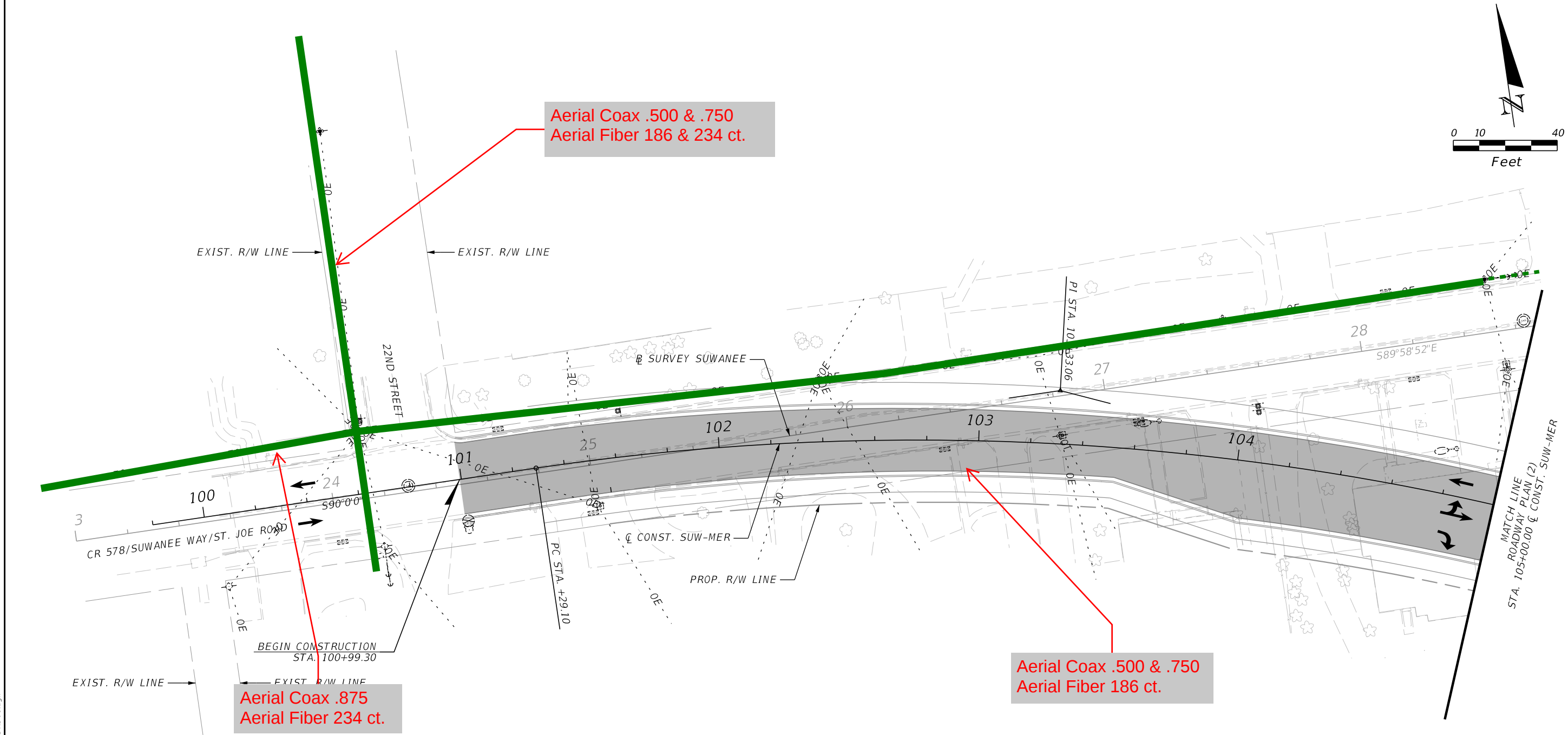
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REVISIONS				ENGINEER OF RECORD	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			UTILITY ADJUSTMENTS (3)	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	VINCENT E. SHINE, P.E. LICENSE NUMBER: 67387 KISINGER CAMPO & ASSOCIATES CORP. 201 N. FRANKLIN STREET, SUITE 400 TAMPA, FL 33602	ROAD NO.	COUNTY	FINANCIAL PROJECT ID		X
					CR 52	PASCO	439832-5-52-01		

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

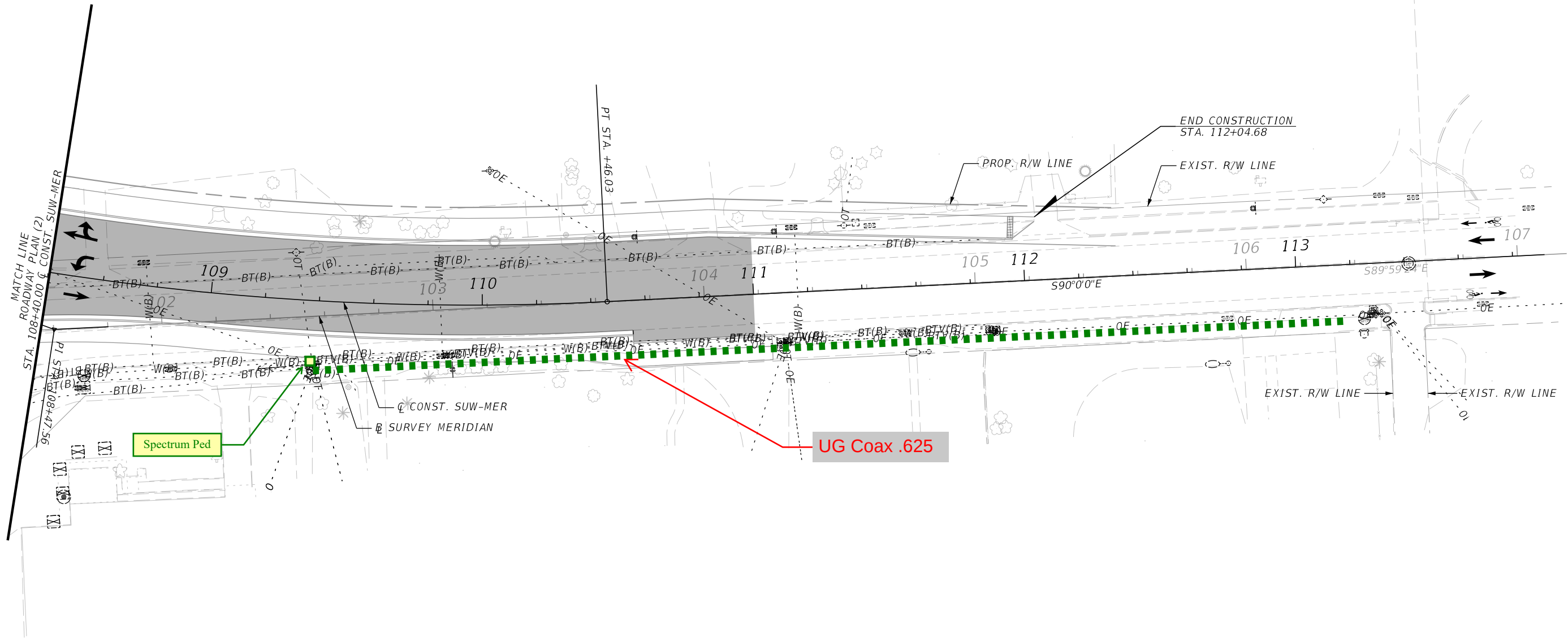
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REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			UTILITY ADJUSTMENTS (4)	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	VINCENT E. SHINE, P.E. LICENSE NUMBER: 67387 KISINGER CAMPO & ASSOCIATES CORP. 201 N. FRANKLIN STREET, SUITE 400 TAMPA, FL 33602		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
						CR 52	PASCO	439832-5-52-01		X

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

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ENGINEER OF RECORD
VINCENT E. SHINE, P.E.
LICENSE NUMBER: 67387
KISINGER CAMPO & ASSOCIATES CORP.
201 N. FRANKLIN STREET, SUITE 400
TAMPA, FL 33602

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
CR 52	PASCO	439832-5-52-01

UTILITY ADJUSTMENTS (5)	

SHEET NO.
X

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

CONTRACT PLANS COMPONENTS

ROADWAY

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROADWAY PLANS

FINANCIAL PROJECT ID 439832-5-52-01

PASCO COUNTY (14120)

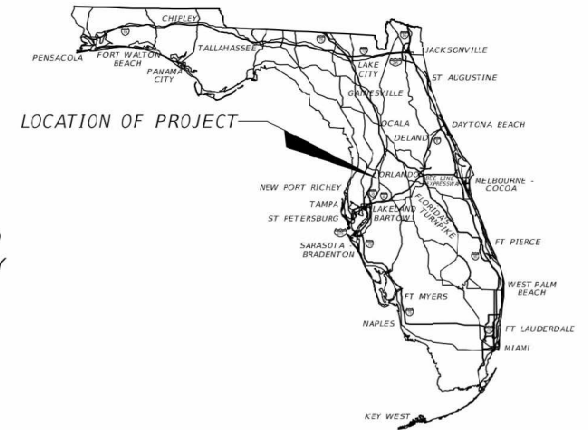
COUNTY ROAD NO. 52

CR 52/MERIDIAN AVENUE/21ST STREET/SUWANNEE WAY/ST. JOE ROAD
ADD LANES AND RECONSTRUCT FROM CHURCH AVENUE TO SUWANNEE WAY

INDEX OF ROADWAY PLANS

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#	GENERAL NOTES
#	ROADWAY PLAN
#	ROADWAY PROFILES
#	CROSS SECTIONS
#	UTILITY ADJUSTMENTS

PROJECT LOCATION URL:	https://tinyurl.com/5n8p9ha4
PROJECT LIMITS:	BEGIN MP 32.128 TO END MP 32.290
EXCEPTIONS:	NONE
BRIDGE LIMITS:	NONE
RAILROAD CROSSING:	NONE



ROADWAY PLANS
ENGINEER OF RECORD:

VINCENT E. SHINE, P.E.
P.E. LICENSE NUMBER 67387
KISINGER CAMPO & ASSOCIATES CORP.
201 N. FRANKLIN STREET, SUITE 400
TAMPA, FLORIDA 33602
(813) 871-5331
CONTRACT NO.: CAM21
VENDOR NO.: 59-1577145

FDOT PROJECT MANAGER:

MARY LOU GODFREY, P.E.

GEC PROJECT MANAGER:

CHARLIE XIE, P.E.

CONSTRUCTION CONTRACT NO.	FISCAL YEAR	SHEET NO.
TBD	24	1

GOVERNING STANDARD PLANS:

Florida Department of Transportation, FY2023-24 Standard Plans for Road and Bridge Construction and applicable Interim Revisions (IRs).

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

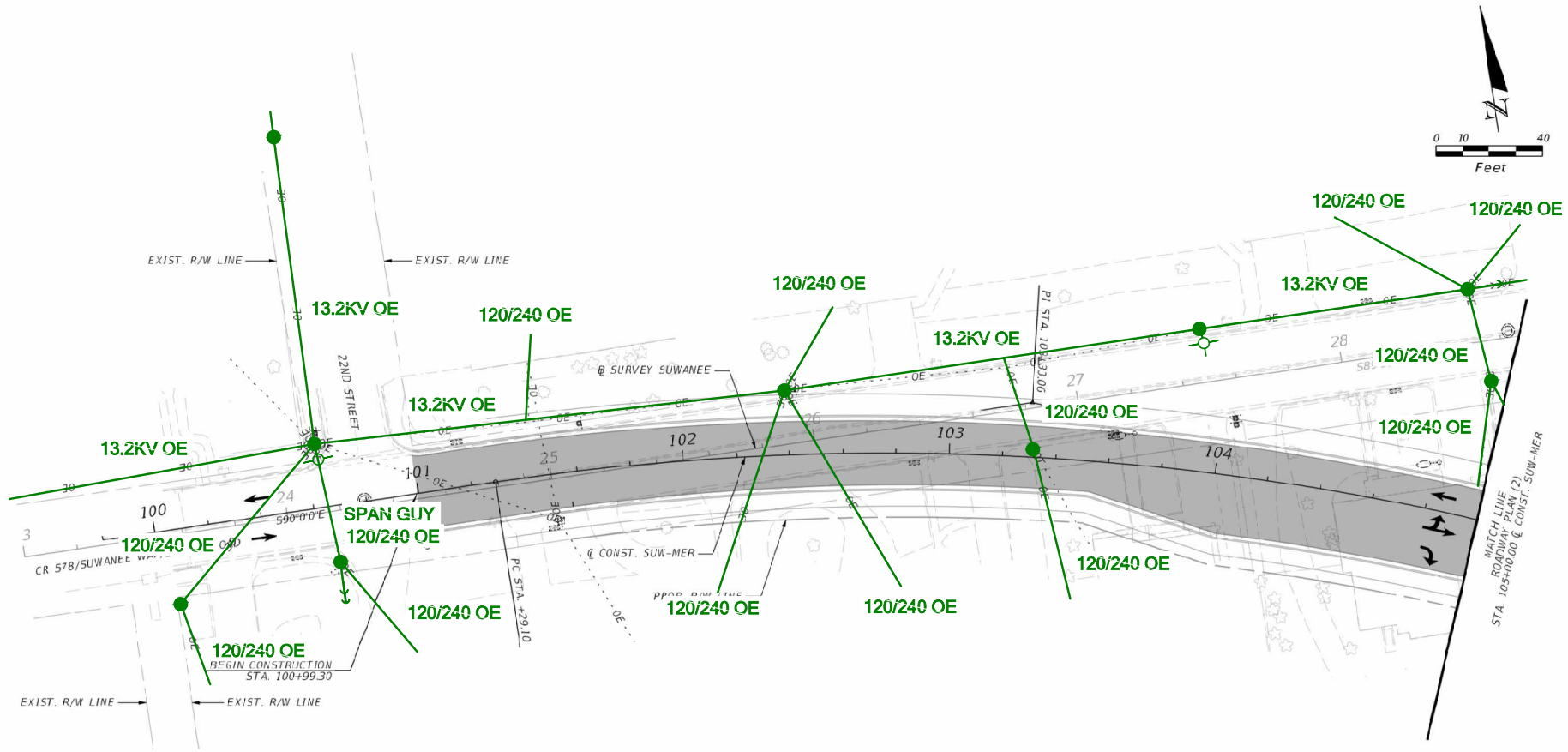
APPLICABLE IRs: N/A

Standard Plans for Bridge Construction are included in the Structures Plans Component

GOVERNING STANDARD SPECIFICATIONS:

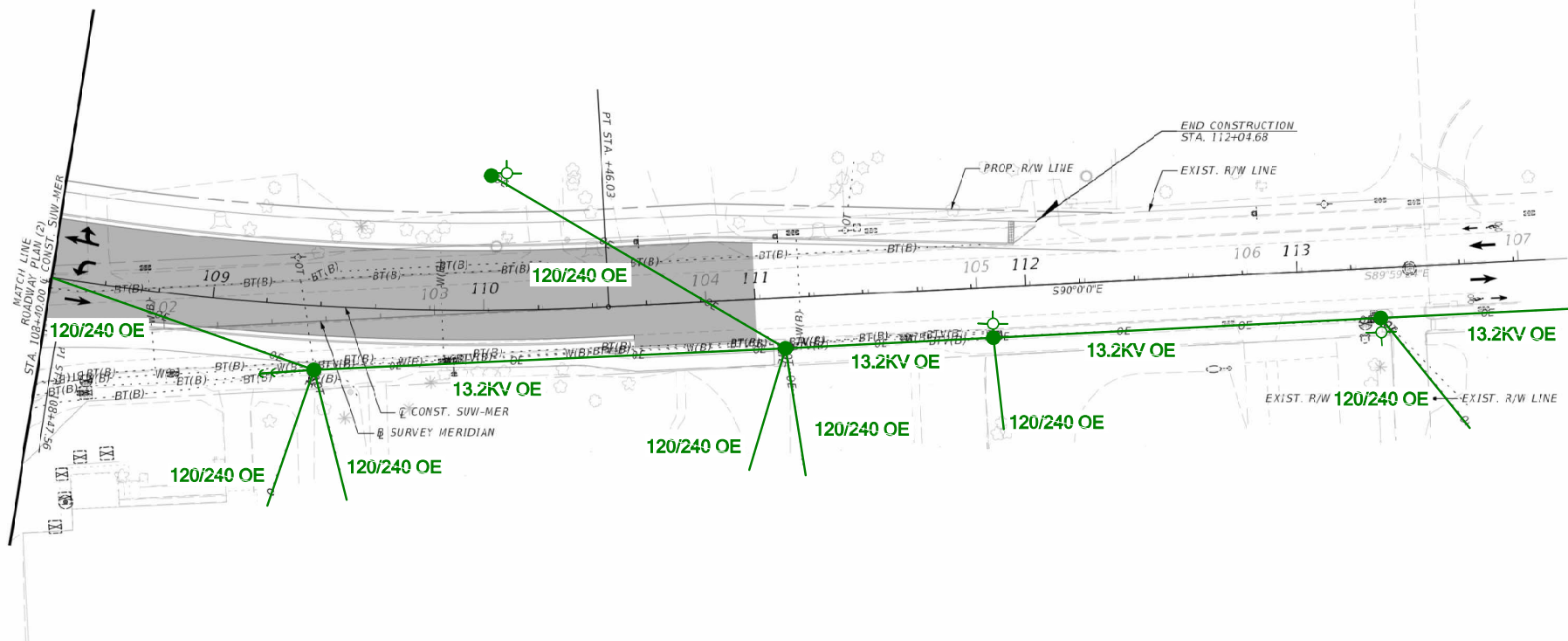
Florida Department of Transportation, FY2023-24 Standard Specifications for Road and Bridge Construction at the following website: <http://www.fdot.gov/programmanagement/Implemented/SpecBooks>

3/22/2024 12:17:31 PM export
C:\Nework\Inging\Aca-pas-bentley.com_kca-paw-ct\work\apost\new\dsid2798\UTAD001.dgn



REVISIONS				ENGINEER OF RECORD	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			UTILITY ADJUSTMENTS (4)	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
				VINCENT E. SHINE, P.E. LICENSE NUMBER: 67387 KISINGER CAMPO & ASSOCIATES CORP. 201 N. FRANKLIN STREET, SUITE 400 TAMPA, FL 33602	CR 52	PASCO	439832-5-52-01		X

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



REVISIONS				ENGINEER OF RECORD	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			UTILITY ADJUSTMENTS (5)	SHEET NO.
DATE	DESCRIPTION		DATE	DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID		X
					VINCENT C. SHINE, P.E. LICENSE NUMBER: 67387 KISINGER CAMPO & ASSOCIATES CORP. 201 N. FRANKLIN STREET, SUITE 400 TAMPA, FL 33602	CR 52	PASCO	439832-5-52-01	

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

Mike Hammer

From: CSAdmin <C7@tecoenergy.com>
Sent: Wednesday, April 24, 2024 3:09 PM
To: Mike Hammer
Subject: RE: 439832-5 // CR 52 Intersection Improvement - Phase I UAO Submittal
Attachments: 43983255201-PLANS-01-UTILITIES-Phase I DIGITIZED.pdf

CAUTION: [EXTERNAL] This Email Originated From Outside The Organization. Do Not Click Links or Open Attachments Unless You Recognize The Sender And Know The Content Is Safe.

Good afternoon Mike,

Please see attached distribution green lines. There is no transmission or telecom in the area.

Thank you,

CSADMIN
C7@tecoenergy.com



From: Mike Hammer <mhammer@elementeg.com>
Sent: Tuesday, April 23, 2024 12:11 PM
To: CSAdmin <C7@tecoenergy.com>
Subject: FW: 439832-5 // CR 52 Intersection Improvement - Phase I UAO Submittal
Importance: High

***** CAUTION! EXTERNAL SENDER *** STOP. EXAMINE. VERIFY!!** Were you expecting this email? Are grammar and spelling correct? Does the content make sense? Can you verify the sender? To report a suspicious email, use the Forward to Phishing button or forward the email to phishing@tecoenergy.com. Do not click links, open attachments, or enter your ID or password.

Good afternoon,

Just a reminder that FDOT is still in need for the appropriate Phase I response from Tampa Electric concerning Distribution, Transmission, and Fiber facilities. Can you please provide an anticipated delivery date as FDOT's 30-day review period expired on Friday, 4/19.

Mike Hammer | Sr. Utility Coordinator



ELEMENT ENGINEERING GROUP, LLC
8509 BENJAMIN RD. SUITE E | TAMPA, FL 33634
O: 813.852.1888 | F: 813-386-2106
MHAMMER@ELEMENTEG.COM | WWW.ELEMENTEG.COM
TRANSPORTATION | CIVIL | UTILITY COORDINATION
SURVEYING & MAPPING
SUBSURFACE UTILITY ENGINEERING
CERTIFIED MBE | DBE

From: Mike Hammer

Sent: Thursday, April 18, 2024 10:24 AM

To: Relocations@Lumen.com; Dingman, Leslie <Leslie.Dingman@lumen.com>; 'John.plamondon@lumen.com' <john.plamondon@lumen.com>; john.j.brugnoli@lumen.com; jkemp@DADECITYFL.com; jwarrenfeltz@dadecityfl.com; CSAdmin <C7@tecoenergy.com>

Cc: Williams, Winston <winston.williams@dot.state.fl.us>

Subject: FW: 439832-5 // CR 52 Intersection Improvement - Phase I UAO Submittal

Importance: High

Good morning everyone,

Wanted to take a moment this morning to remind everyone of FDOT's 30-day review period for development of your Phase I response ends this Friday, April 19th. Attached above are the Phase I letter and plan pages for the basic green line depiction of existing facilities.

1. CenturyLink.....
 - a. CLink ID #P-537097
2. Dade City.....
3. Pasco County Traffic...Ph. I GLs received via email, uploaded to PSEE
4. Spectrum.....Ph. I GLs received via email, uploaded to PSEE
5. Tampa Electric.....

No Facilities responses received

- ✓ CenturyLink L3 – Ph. I NF email received, uploaded to PSEE

Mike Hammer | Sr. Utility Coordinator



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SURVEYING & MAPPING
SUBSURFACE UTILITY ENGINEERING
CERTIFIED MBE | DBE

From: Mike Hammer

Sent: Monday, March 25, 2024 2:10 PM

To: Relocations@Lumen.com; jkemp@dadecityfl.com; jwarrenfeltz@dadecityfl.com; vvattikuti@pascocountyfl.net; william.walker1@charter.com; dl-fl-pas-construction@charter.com; CSAdmin <C7@tecoenergy.com>

Cc: Xie, Charlie <Charlie.Xie@dot.state.fl.us>; Williams, Winston <winston.williams@dot.state.fl.us>; Vincent Shine <VShine@kcaeng.com>

Subject: 439832-5 // CR 52 Intersection Improvement - Phase I UAO Submittal

Importance: High

Good afternoon everyone,

This email is to serve as follow up to the submittal made via FDOT's PSEE system. With this submittal, FDOT is requesting green line depiction to verify ownership of facilities collected from a recent project as well as any newly installed or retired-in-place facilities. This submittal also begins the FDOT's 30-day review period for any UAO research or field verification needed to provide the green line response. The 30-day review period expires on Friday, April 19th making responses due also.

If you have any questions, please feel free to contact me directly.

1. CenturyLink
2. Dade City
3. Pasco County Traffic
4. Spectrum
5. Tampa Electric

Mike Hammer | Sr. Utility Coordinator



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TRANSPORTATION | CIVIL | UTILITY COORDINATION

SURVEYING & MAPPING

SUBSURFACE UTILITY ENGINEERING

CERTIFIED MBE | DBE

From: DoNotReply-FDOTApps@dot.state.fl.us <DoNotReply-FDOTApps@dot.state.fl.us>

Sent: Monday, March 25, 2024 1:26 PM

Subject: PSEE: Project: 439832-5 Activity: Create Plan Entry By: Mike Hammer (KNOMNMH)

CAUTION: [EXTERNAL] This Email Originated From Outside The Organization. Do Not Click Links or Open Attachments Unless You Recognize The Sender And Know The Content Is Safe.

Click to see the referenced [Project](#) in PSEE

If you are not on the DOT Network, click to see the referenced [Project](#) in PSEE

Project: 439832-5

Project Description: CR 52/MERIDIAN AVENUE/21ST STREET/SUWANNEE WAY/ST. JOE ROAD

Plan

Plan Phase: PHASE I INITIAL

Sequence:

Plan Action: For Review And Markup

Utility Project Manager: Williams, Winston

Utility Coordinator: Hammer, Mike

Created On: 3/25/2024 1:26:19 PM

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