



# CITY OF TAMPA

Bob Buckhorn, Mayor

CONTRACT ADMINISTRATION DEPARTMENT

David L. Vaughn, AIA, Director

## ADDENDUM NO. 1

**DATE: January 16, 2014**

Contract 14-C-00011; Channel District: East Madison Street Improvements  
Project 1000327

Bidders on the above referenced project are hereby notified that the following addendum is made to the Contract Documents. BIDS TO BE SUBMITTED SHALL CONFORM TO THIS NOTICE.

- Item 1: Stantec letter (1/8/14) with Responses to Bidder's Questions, is included herein (6 pages).
- Item 2. Pre-Bid Conference (dated 1/7/14): for information only, copy of Sign-In Sheet is included herein (1 page).
- Item 3. Specifications, Table of Contents: following the Bid Notice Memo, **INSERT** the entire Table of Contents included herein (2 pages).
- Item 4. Specifications, Proposal: **REPLACE** Proposal pages P-3 thru P-10 with the revised Proposal pages P-3R thru P-12R, included herein (10 pages).
- Item 5. Specifications, Specific Provisions: **REPLACE** the entire Section with the revised Section included herein (22 pages).
- Item 6. Specifications, Permit: following the SWFWMD Permit, **INSERT** the entire Florida Department of Health – Hillsborough County letter (dated 12/17/13) acknowledging acceptability of use of General Permit for Construction of Water Main Extensions (Permit No. 0168017-1114-DSGP-DEP) included herein (5 pages).
- Item 7. Specifications, Section 01040 – Project Coordination: **MOVE** from its current location at the end of the Specifications and **INSERT** following Section 01020 – Allowances as indicated in the Table of Contents.
- Item 8. Specifications, Section 02775 – Concrete Sidewalk: **INSERT** entire Section included herein (2 pages).
- Item 9. Specifications, Section 02780 – Interlocking Concrete Pavers: **INSERT** entire Section included herein (4 pages).

306 E. Jackson Street, 4N • Tampa, Florida 33602 • (813) 274-8456 • FAX: (813) 274-8080



Item 10. Drawings, **REPLACE** Sheet Nos. 01, 03, 05, 06, and 08 through 20 with Sheet Nos. 01, 03, 05, 06, and 08 through 20 indicated to have Revision/Delta 1(dated 01/09/14) for Reconfiguration of TECO Buried Electrical Lines; also, **REPLACE** Sheet Nos. 24 through 26 with Sheet Nos. 24 through 26 indicated to have Revision/Delta 1(dated 01/09/14) for Reconfiguration of TECO Buried Electrical Lines, and Revision/Delta 2 (dated 01/09/14) for Addition of Street Light Conduits; also, **REPLACE** Sheet Nos. 27, and 28 with Sheet No's. 27, and 28 indicated to have Revision/Delta 1 (dated 01/09/14) for Revised Call-outs for 8" Water Line, included herein (22 sheets).

All other provisions of the Contract Documents and Specifications not in conflict with this Addendum shall remain in full force and effect. Questions are to be e-mailed to Contract Administration@tampagov.net.

*Jim Greiner*

---

Jim Greiner, P.E., Contract Management Supervisor



**Stantec Consulting Services Inc.**  
2205 North 20th Street  
Tampa FL 33605-3921  
Tel: (813) 223-9500  
Fax: (813) 223-0009

January 8, 2014  
File: 215611523

**Attention: Ed Rice, AIA**  
Project Architect  
Contract Administration Department Planning and Design Division  
City of Tampa  
306 E. Jackson Street A4N  
Tampa, FL 33602

**Reference: Questions for Contract 14-C-00011**  
**Channel District: East Madison**  
**Street Improvements-Project 1000327 [ADDENDUM #1]**

Dear Mr. Rice,

The following correspondence is being submitted in response to the questions for Contract 14-C-00011 received on 1/8/14.

**MOT:**

Can Madison be closed to traffic? If not, can it be made a one way street? If not, can you tell us what you expect for MOT?

**Stantec Response:** *Madison Street cannot be closed to traffic. One travel lane will be required throughout the construction process. The contractor will need to determine if a one-way street should be used and provide an MOT plan to the City of Tampa for approval on how this is to be accomplished.*

**Roadway:**

The quantity of item 2208-2 removal of existing pavement seems high compared to what is shown on the plans. In addition to the cross hatched sections on the plans is there other pavement we will be paid to remove under this item?

**Stantec Response:** *The area for the pavement removal has been updated to 2,650 SY and includes the hatched area and portions of the existing sidewalk on the north side of Madison Street at both intersections and a 5' wide section along the east side of Meridian from Twiggs to Madison for installation of buried electrical conduit. A pay item has been added to replace the portion of sidewalk and pavers removed for the electrical conduit installation.*



January 8, 2014  
Comments Response Letter  
City of Tampa  
E. Madison Street Improvements  
Contractor Questions: Addendum 1  
Page 2 of 6

In lieu of stabilization type B 12” can we increase the base thickness by 6 inches to 16” inches of crushed concrete?

**Stantec Response:** *Continue with the road section as shown in the construction drawings.*

Can the truncated domes be by any approved manufacturer listed on the FDOT’s QPL?

**Stantec Response:** *Yes, if they are on the most current FDOT QPL.*

Pay Item 02510-1. “Saw Cut Concrete”. Unit of measurement shown as ‘SY’. Should be L.F.

**Stantec Response:** *Saw-Cut concrete refers to the style of concrete sidewalk being placed as part of the hardscape installation (refer to the paving detail sheet) and not the length of saw-cuts required. Any required saw-cuts are incidental to the proposed construction items.*

#### **Stormwater:**

According to the special provisions, item SP-4.06-1 excavate & removal of unsuitable soils should be Removal of Unsuitable Soils and paid by the ton rather than by the cubic yard. Please modify either the specification or the pay item so that they agree with one another.

**Stantec Response:** *SP-4.06-1 has been revised in the Bid Tabulation match the specification.*

Please clarify what work is included in bid item SP-7.04-1 Drainage Structure, Modify (Inlet). Is this for connecting the new 18” pipe to the existing SD-EX-02 and SD-EX-01? If yes, will SD-EX-01 also be paid as item SP-7.04-4 FDOT MH Type P-7 Partial? (Note that SP-7.06 indicates that this work is to be incidental to the pipe and not paid for separately, which leaves us trying to figure out what this pay item is for).

**Stantec Response:** *Special Provision SP-7.04-1 has been removed from the specifications and bid sheet as it is outdated.*

#### **Water:**

We note that the joint restraint pay items are per lineal foot. When did the city change from each to per LF? Per each made a lot more sense.

**Stantec Response:** *Joint restraints are to be paid for per lineal foot as the number of joints or pipe sections there will be from the end of a bend to a point where the required restraints for that bend is to end has not been determined. Furthermore, joint restraints will need to be added to the existing water main and the location of the existing joints have not been excavated to determine where those joints are and if they need to be restrained in relation to the proposed water main offset or relocation.*



January 8, 2014  
Comments Response Letter  
City of Tampa  
E. Madison Street Improvements  
Contractor Questions: Addendum 1  
Page 3 of 6

How can there be more LF of 12" water main restrained joint (C2.09-3) and poly wrap (C2.11-3) then there is of 12" water main (C2.04-3)?

**Stantec Response:** *Per the water main relocation plans, sheets 27 and 28, portions of the existing 12" water main are to be excavated to allow for the proper restraint of the 12" water main offsets and/or relocation. This means that portions of the existing line WILL be restrained and poly wrapped that may have not been restrained and wrapped already.*

On plan sheet 27, lower right, there is a profile view of a proposed offset for the water main. The callouts variously refer to the size of the pipe and fittings as being 8" or 12". It would seem logical that it is one size or the other, not a mix of the two. Please clarify that we are correct and all of the pipe and fittings involved in this offset are 8".

**Stantec Response:** *All of the call-outs for the fittings in the lower right corner profile are to be 8". See sheet 27.*

There are several pay items involving 6" diameter pipe, fittings, restraints and polyethylene wrapping (C2.04-1, C2.05-1, C2.09-1 and C2.11-1). The only location we see any of this work called for is where we are to relocate an existing hydrant. That work appears to be paid for under item C2.07-1. Can you explain where the work is that will be paid for under items C2.04-1, C2.05-1, C2.09-1 and C2.11-1? Is it your intent to pay for these items and C2.07-1 when we relocate the hydrant?

**Stantec Response:** *There are two hydrants to be relocated. The materials involved with the relocation, up to 10' from the existing location, are to be paid under pay item C2.07-1. The remaining pay items are related to further adjustments to those fire hydrants that have not been anticipated due to unforeseen circumstances.*

Pay Item C2.09-3. : Mech. Joint Restr. Wedge Action, 12 in" Quantity 310 and the unit 'LF' need to be corrected.

**Stantec Response:** *Joint restraints are to be paid for per lineal foot as the number of joints or pipe sections there will be from the end of a bend to a point where the required restraints for that bend is to end has not been determined. Furthermore, joint restraints will need to be added to the existing water main and the location of the existing joints have not been excavated to determine where those joints are and if they need to be restrained in relation to the proposed water main offset or relocation.*

#### **Wastewater:**

1. For item 5000-1 is the bidder to assume that the laterals to be removed are 6" or 8" and will be paid for under this pay item?

**Stantec Response:** *The pay item reflects the removal of the sanitary laterals and the removal of*



*the 8" sanitary main from station 51+25 to station 52+60.*

2. Notes 5 and 6 on the House Lateral Replacement Detail calls for the laterals to be Class 350 (which we assume to be ductile iron) but the plans offer no way for us to determine if this is required on this project.

***Stantec Response:*** *Notes 5 and 6 on the House Lateral detail are applicable if the minimum covers and/or separations from storm lines, water lines, ditches, etc. cannot be made. Contractor to field verify before ordering and installation of material.*

## **Electric and Lighting**

1. There are numerous runs of proposed electrical conduit that are under existing pavement, pavers, sidewalk, curb etc. that is not slated to be replaced. How are we to be compensated for the restoration in those areas? (This occurs along both Meridian and Madison.)

***Stantec Response:*** *Any pavement area, including sidewalks and paver areas, and are slated to be removed are to be paid for by pay item 2208-2. The brick paver units are to be stored for later installation and installed by pay item 02780-1. Brick pavers that need to be removed for any construction activity are to first be mapped, marked and stored, then returned to their original position, per the original design, after the planned construction activity has concluded. Portions of the existing sidewalk to be replaced are to be paid under pay item 02775-1. These pay items have been added to the bid sheet and specifications.*

2. There are proposed electrical conduits shown running to the south just west of the electric manhole located at Sta. 53+00. There does not appear to be a call out for what size these are or how many. Can you provide that information?

***Stantec Response:*** *Those electrical conduits are: 2-4" conduits and 2-6" conduits and are shown on the revised Utility Adjustment sheet.*

3. Can you tell us where on the plans we might find the work associated with pay item SP-5.04-1, 2" conduit, Lighting, Install Underground?

***Stantec Response:*** *Those conduits are associated with the proposed street lighting for East Madison Street and are now shown on the revised Utility Adjustment sheets.*

4. In SP-5.04, you mention how we are to obtain the various materials for the installation of the conduit but make no mention of the manholes. Will we have to pick up the manholes at the same location as the conduit or will they be delivered to the project? If we are picking them up, will TECO have equipment and personnel available to load it onto our truck or will we need to provide that also? Can you give us information on the manholes such as weight of pieces, size of pieces, number of access points, hardware we are to install etc.?

***Stantec Response:*** *Contractor for the work must be an approved TECO contractor. The*



January 8, 2014  
Comments Response Letter  
City of Tampa  
E. Madison Street Improvements  
Contractor Questions: Addendum 1  
Page 5 of 6

*selected Contractor will need to coordinate with TECO to pick up both the conduits and structures from TECO.*

5. What permits will be required for the installation of this conduit? What license will the contractor be required to have to install this conduit? (Specifically, since you are calling this electrical conduit will a licensed electrician be required?)

***Stantec Response:*** *The Contractor will need to seek a right-of-way use permit from the City of Tampa and from FDOT will be required An underground utility license is required.*

6. Can you provide details, specifications and supplier for the electrical manholes?

***Stantec Response:*** *Please see the Electrical comment response 4 above.*

7. Can electrical conduit show size and number of conduit at all locations?

***Stantec Response:*** *Please see the Electrical comment response 2 above.*

8. Isn't meridian controlled by the expressway authority? Do they require any permits be obtained for the work being done; if so, has STANTEC obtained or in process of obtaining?

***Stantec Response:*** *Meridian Avenue is maintained by the Expressway Authority but is controlled by FDOT. We are awaiting FDOT approval on the drainage connection permit, which we should get either later this week or early next week. Likewise, we are awaiting the signed construction agreement from FDOT for the planned construction work in the FDOT right-of-ways; the signature of this agreement is contingent upon the approval of the drainage connection permit. TECO is currently in the process of getting a Utility Use permit package together for the planned undergrounding of the overhead electrical on Meridian Avenue. We have given TECO the application for additional information and signature and will assist with the submittal if needed.*

We anticipate that the responses provided above will satisfy the concerns expressed in the comments provided. Should you have any questions regarding the above, or require additional information, please do not hesitate to contact our office at your earliest convenience.

**Regards,**

**STANTEC CONSULTING SERVICES, INC.**

Hamidreza Sahebkar, P.E.  
Senior Associate, Civil Engineering  
Phone: (813) 223-9500



January 8, 2014  
Comments Response Letter  
City of Tampa  
E. Madison Street Improvements  
Contractor Questions: Addendum 1  
Page 6 of 6

Fax: (813) 223-0009  
Hamid.Sahebkar@stantec.com

Attachment: Addendum 1: Madison Street Bid Tabulations, Plans, & Additional Specifications

ddv:\2156\active\215611523\admin\correspondence\documents\final\_document\letter\ltr\_questions\_resp\_madison\_14c00011\_20140109.docx

CONTRACT 14-C-00011; Channel District: East Madison Street Imps. - Pre-Bid Conf. 01/07/14

E-Mail to Register as a Plan Holder and E-Mail All Questions to: ContractAdministration@tampagov.net

Sign-In Sheet  Please Print

City of Tampa, Contract Administration Department

	Name	Organization	E-Mail OR Phone
1	Jim Greiner, PE	Tampa Contract Administration Dept.	Jim.Greiner@tampagov.net
2	Pam Moore	CONE & GRAHAM	pmoore@conegraham.com
3	Jim Phillips	Augustine Const	JPhillips@AugustineConstruction.com
4	Joe Minich	AJAX PAVING	Jminich@ajaxpaving.com
5	Ken Disharoon	Kimmins Contracting	kdisharoon@kimmins.com
6	<del>D Kloote</del>	<del>KLOOTE</del>	<del>DNE@KLOOTE.com</del>
7	Tom Woodward	Nelson Const.	Twoodward@nelson-construction.com
8	Ryan Owen	KRAMMING & PRODUCERS, INC	quotes@kandrinc1.com
9	David Wirth	Dallas I	david.wirth@dli.com
10	Victor Bruce	City Parks & Rec.	—
11	Marshall Davis	PosPach Construction	estimating@pospachcontracting.com
12	ED RICE	COT/CAD - P&D	EDWARD.RICE@TAMPAGOV.NET
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			
31			
32			
33			
34			
35			
36			

TABLE OF CONTENTS

BIDDING REQUIREMENTS

Notice to Bidders ..... N-1  
 Instructions to Bidders ..... I-1a thru I-4  
 Insurance Requirements ..... INS-1 thru INS-2  
 SLBE Goal Setting List ..... GS-1  
 Goal Setting List Instructions ..... GSL-1  
 Sample Solicitation Letter ..... SL-1

BID FORMS

Proposal ..... P-1 thru P-10  
 Good Faith Efforts Compliance Plan ..... GFECF  
 SLBE Solicited ..... DMI – Solicited  
 SLBE Utilized ..... DMI – Utilized  
 Bid Bond ..... BB-1

CONTRACT FORMS

Agreement ..... A-1 thru A-13  
 Public Construction Bond ..... PB-1 thru PB-3

GENERAL PROVISIONS

General Provisions ..... G-1 thru G-10  
 Supplementary General Provisions ..... SGP-1 thru SGP-6  
 Special Conditions ..... SC-1 thru SC-4  
 Specific Provisions ..... SP-1- thru SP-22  
 Geotechnical Engineering Report (Dated August 12, 2013) ..... 1 thru 26  
 Special Conditions ..... SC-1 thru SC-4  
 Subcontractors Payment Form ..... DMI – Payments  
 Project Sign ..... Sign-1 thru Sign-2

PERMIT

SWFWMD Permit (dated October 31, 2013) ..... 1 thru 13  
 FDOH-HC Letter (dated December 17, 2013) ..... 1 thru 5

SPECIFICATION

DIVISION 1

GENERAL REQUIREMENTS

SECTION 01010 ..... SUMMARY OF WORK ..... 01010-1 thru 01010-2  
 SECTION 01020 ..... ALLOWANCES ..... 01020-1 thru 01020-2  
 SECTION 01040 ..... PROJECT COORDINATION ..... 01040-1 thru 01040-5

TECHNICAL SPECIFICATIONS  
WORKMANSHIP AND MATERIALS

SECTION WR.....	WATER MAIN RELOCATION.....	WR-1 thru WR-40
SECTION SS.....	SANITARY SEWER.....	SS-1 thru SS-25
SECTION 330.....	HOT BITUMINOUS MIXTURES.....	330-1
SECTION 331.....	MODIFIED SPECIFICATIONS FOR ASPHALTIC PAVEMENT.....	331-1 thru 331-3
SECTION 334.....	MODIFIED SPECIFICATIONS FOR ASPHALTIC PAVEMENT.....	334-1 thru 334-8
SECTION 02208.....	ROADWAY EXCAVATION AND EMBANKMENT.....	02208-1 thru 02208-4
SECTION 02440.....	UNDERGROUND SPRINKLER.....	02440-1 thru 02440-11
SECTION 02510.....	SAW-CUT CONCRETE SIDEWALK.....	02510-1 thru 02510-4
SECTION 02511.....	SHELL AGGREGATE CONCRETE SIDEWALK.....	02511-1 thru 02511-5
SECTION 02580.....	PAVEMENT MARKINGS.....	02580-1 thru 02580-2
SECTION 02775.....	CONCRETE SIDEWALK.....	02775-1 thru 02775-2
SECTION 02780.....	INTERLOCKING CONCRETE PAVERS.....	02780-1 thru 02780-4
SECTION 02900.....	TREES, PLANTS AND GROUNDCOVERS.....	02900-1 thru 02900-10
SECTION 02910.....	STRUCTURAL SOIL.....	02910-1 thru 02910-9
SECTION 02935.....	MAINTENANCE OF PLANTING.....	02935-1 thru 02935-5
SECTION 03000.....	CONCRETE.....	03000-1 thru 03000-10

ADDITIONAL SPECIFICATIONS ARE ON THE DRAWINGS.







Item No.	Description	Unit	Approx. Quantity	Unit Price in Words	Unit Price	Total Computed Price
C2.10-1	Water Service Connection, 2" (Irrigation)	EA	1		\$	\$
C2.11-1	Polyethylene Wrap, 6", D.I. (F&I)	LF	10		\$	\$
C2.11-2	Polyethylene Wrap, 8", D.I. (F&I)	LF	24		\$	\$
C2.11-3	Polyethylene Wrap, 12", D.I. (F&I)	LF	310		\$	\$
						<b>SUB TOTAL</b> \$
<b>WASTEWATER CONSTRUCTION</b>						
4900-1	Connection to Existing Manhole	EA	1		\$	\$
5000-1	6"-8" Wastewater Pipe Removal	LF	400		\$	\$
5000-2	Sanitary Sewer Manhole Removal	EA	1		\$	\$
0700-1	Wastewater Pipe (F&I) (6" PVC) Depth < 5'	LF	117		\$	\$
0700-2	Wastewater Pipe (F&I) (6" PVC) Depth 5' to 10'	LF	118		\$	\$
						<b>SUB TOTAL</b> \$
<b>HARDSCAPE SURFACES</b>						
02511-1	Colored Shell Aggregate Concrete	SF	6,100		\$	\$
02510-1	Saw Cut Concrete	SY	560		\$	\$
02775-1	6" Thick Concrete Sidewalk	SY	61		\$	\$
02780	Paver Replacement Along Meridian Avenue	SY	184		\$	\$
						<b>SUB TOTAL</b> \$
<b>PLANT MATERIAL &amp; IRRIGATION</b>						
02900-1	Bald Cypress	EA	2		\$	\$
02900-2	Sky Climber Live Oak	EA	10		\$	\$
02900-3	Washington Palm	EA	2		\$	\$



Item No.	Description	Unit	Approx. Quantity	Unit Price in Words	Unit Price	Total Computed Price
SP-5.04-4	Electrical Manhole (Install Only)	EA	3		\$	\$
					SUB TOTAL	\$
					SUB TOTAL OF ABOVE SUB TOTALS	\$
					ALLOWANCE (REFERENCE SECTION 01020)	\$ 130,000.00
					TOTAL BID	\$

Item No.	Description	Unit	Approx. Quantity	Unit Price in Words	Unit Price	Total Computed Price
	<p>Notes:</p> <p>1) It is assumed franchised utility providers to perform their relocations as necessary. Costs to be paid directly to the utility providers by the City.</p> <p>2) Contractor to design and provide MOT per FDOT design standards.</p> <p>3) All surveying work associated with construction are incidental to the overall project coordination. This includes, but is not limited to, construction staking, certified as-built survey, etc.</p> <p>4) All contractor permit applications and impact fees are the responsibility of the Contractor.</p> <p>5) Complete road demolition and reconstruction within the project limits is required. The Contractor is to coordinate changes with the Utility Company.</p> <p>6) Undergrounding of overhead electrical is based on design information provided by TECO.</p> <p>7) All select backfill material cost for utility and storm sewer system trenches shall be included as part of the unit price of installation.</p> <p>8) For general information, approximate quantity of 235 LF applies if needed for Pay Item No. 0700-1 or 0700-2.</p>					

Computed Total Price In Words:

\_\_\_\_\_ dollars and \_\_\_\_\_ cents.

Computed Total Price in Figures: \$\_\_\_\_\_

The bidder acknowledges that the following addenda have been received and that the changes covered by the addendum(s) have been taken into account in this proposal: #1 \_\_\_ #2 \_\_\_ #3 \_\_\_ #4\_\_\_ #5\_\_\_.

The bidder acknowledges the requirements of the City of Tampa's Equal Business Opportunity Program.

Bidder acknowledges that included in the various items of the proposal and the Total Bid Price are costs for complying with the Florida Trench Safety Act (90096), (Laws of Fla.) effective October 1, 1990. The bidder further identifies the costs to be summarized below:

	Trench Safety Measure (Description)	Unit of Measure (LF, SY)	Unit Quantity	Unit Cost	Extended Cost
A.	_____	_____	_____	_____	_____
B.	_____	_____	_____	_____	_____
C.	_____	_____	_____	_____	_____
D.	_____	_____	_____	_____	_____
				Total Cost \$	_____

Signed \_\_\_\_\_

Failure to complete the above may result in the bid being declared non-responsive.

Accompanying this Proposal is a certified check, cashier's check or Bid Bond (form included herein must be used) on the form at least five (5) percent of the total amount of the Proposal which check shall become the property of the

\_\_\_\_\_ of \_\_\_\_\_  
(Name of Bank or Surety) (City & State)

City of Tampa, or which bond shall become forthwith due and payable to the City of Tampa, if this Proposal shall be accepted by the City of Tampa and the undersigned shall fail to execute a contract with and to furnish the required Performance Bond and Payment Bond to the City of Tampa within twenty (20) days after the date of receipt of written Notice of Award by the City of Tampa to the undersigned so to do.

Dated \_\_\_\_\_, 2014

\_\_\_\_\_  
(Name of Bidder)

\_\_\_\_\_  
(Address of Bidder)

\_\_\_\_\_  
(Signature)

\_\_\_\_\_  
(Title)

Where Bidder is a Corporation:

Attest:

\_\_\_\_\_  
Secretary

AFFIX  
CORPORATE  
SEAL

(ACKNOWLEDGMENT OF PRINCIPAL)

STATE OF \_\_\_\_\_ )  
 ) SS:  
COUNTY OF \_\_\_\_\_ )

For a Corporation:

STATE OF \_\_\_\_\_  
COUNTY OF \_\_\_\_\_

The foregoing instrument was acknowledged before me this \_\_\_\_ of \_\_\_\_\_, 2014 by \_\_\_\_\_ of \_\_\_\_\_, a \_\_\_\_\_ corporation, on behalf of the corporation. He/she is \_\_\_\_ personally known or has \_\_\_\_ produced \_\_\_\_\_ as identification.

\_\_\_\_\_  
Notary

My Commission Expires:  
\_\_\_\_\_

For an Individual:

STATE OF \_\_\_\_\_  
COUNTY OF \_\_\_\_\_

The foregoing instrument was acknowledged before me this \_\_\_\_ of \_\_\_\_\_, 2014 by \_\_\_\_\_ who is \_\_\_\_ personally known to me or has \_\_\_\_ produced \_\_\_\_\_ as identification.

\_\_\_\_\_  
Notary

My Commission Expires:  
\_\_\_\_\_

For a Firm:

STATE OF \_\_\_\_\_  
COUNTY OF \_\_\_\_\_

The foregoing instrument was acknowledged before me this \_\_\_\_ of \_\_\_\_\_, 2014 by \_\_\_\_\_ who signed on behalf of the said firm. He/she is \_\_\_\_ personally known or has \_\_\_\_ produced \_\_\_\_\_ as identification.

\_\_\_\_\_  
Notary

My Commission Expires:  
\_\_\_\_\_  
\_\_\_\_\_

## SPECIFIC PROVISIONS

### INDEX OF SUBJECTS

- SP- 1    GENERAL**
- SP- 2    ADMINISTRATION**
- SP- 3    MAINTENANCE OF TRAFFIC**
- SP- 4    COMPACTION, STABILIZATION, AND DEWATERING**
- SP- 5    GENERAL UTILITY WORK**
- SP- 6    WATER MAIN CONSTRUCTION**
- SP- 7    STORMWATER CONSTRUCTION**
- SP- 8    ROADWAY AND SIDEWALK CONSTRUCTION**
- SP- 9    TREES, PLANTS, AND IRRIGATION WORK**
- SP- 10   MISCELLANEOUS ITEMS**
- SP- 11   SIGNAGE**
- SP- 12   HARDSCAPE AND FURNISHINGS**

#### **SP- 1.01 DPW TECHNICAL SPECIFICATIONS:**

The work on this project shall comply with the FDOT Standard Specifications for Road and Bridge Construction (2013), and the FDOT Roadway and Traffic Design Standards (2013), except as noted herein. The Engineer shall be notified of any discrepancy between either the FDOT Standard Specifications for Road and Bridge Construction or FDOT Roadway and Traffic Design Standards and these Technical Specifications or City specifications and standards.

It is required that the maintenance of the traffic conform to the Manual of Uniform Minimum Standards For Design, Construction and Maintenance For Streets and Highways (Florida Greenbook), the FDOT Standard Specifications for Road and Bridge Construction (2013), and the FDOT Roadway and Traffic Design Standards (2013).

#### **SP- 2.01 BID ITEMS:**

It is the intent of these Contract Documents that any items of work and all costs for which compensation is not directly provided by a bid item but are incidental to various project items of work, shall be prorated and included in the bid item for which they are required. Failure of the Contractor to follow this procedure shall be basis for rejection of its bid. Items related to the construction of the park shall be included in the lump sum bid amount for the park.

#### **SP-2.02 LINES AND GRADES:**

The General Provisions Section G-8.01 through G-8.04 are revised to read as follows:

##### **G-8.01 GENERAL**

All work done under this contract shall be constructed in accordance with the lines and grades as shown on the plans or as directed by the Engineer. The full responsibility for keeping alignment and grade shall rest upon the Contractor.

The Engineer will establish Bench Marks and baseline controlling points only. All elevations indicated or specified refer to the North American Vertical Datum of 1988.

#### G-8.02 SURVEYS

The Contractor shall furnish and maintain stakes and other such material as may be required for setting reference marks, and shall establish all working or construction lines and grades as required from the reference marks set by the Engineer's Surveyor, and shall be solely responsible for the accuracy thereof. The Contractor shall, however, be subject to check and review by the Engineer's Surveyor. The cost of this work shall be included in the pay item for Mobilization, and no separate payment shall be made.

Pay items requiring survey information, such as embankment or excavation, shall be documented by a Florida Registered Professional Surveyor and Mapper hired and/or employed by the Contractor. In addition, plotted cross sections and quantity computations must be supplied and certified. All surveys shall be in accordance with the Minimum Technical Standards set forth by the Florida Board of Professional Surveyors and Mappers in Chapter 61G17-6, Florida Administrative Code, pursuant to Section 472.027, Florida Statutes.

#### G-8.03 SAFEGUARDING MARKS

Add the following paragraph to General Provision Section G-8.03:

The Contractor shall, with no additional payment, furnish and install reference stakes at all even and half-stations along the project survey baseline. These stakes shall be maintained for the duration of construction for the purpose of the Engineer's reference

#### G-8.04 DATUM PLANE

All elevations indicated or specified refer to the North American Vertical Datum of 1988 (NAVD88).

#### **SP-2.03 REQUIREMENTS FOR CONTROL OF THE WORK:**

Prior to the start of the work included in this contract, a Pre-construction Conference will be held by the Engineer to be attended by the Contractor and representatives of the various utilities and others for the purpose of establishing a schedule of operations which will coordinate the work to be done under this contract with all related work to be done by others within the limits of the project. The Contractor shall be prepared for this meeting and shall present a comprehensive construction schedule for all items of work to be accomplished, which will be used as the basis for the development of an overall operational schedule and a list of subcontractors and material suppliers to be used on this work.

All items of work in this contract shall be coordinated so that progress on each related work item will be continuous from week to week. The progress of the work will be reviewed by the Engineer at the end of each week, and if the progress on any item of work during that week is found to be unsatisfactory, the Contractor shall be required to adjust the rate of progress on that item or other items as directed by the Engineer.

The Contractor shall conduct operations in such a manner as will result in the minimum of inconvenience to occupants of adjacent homes and business establishments and shall provide temporary access as directed or as conditions in any particular location may require.

Access to adjacent residential, public and commercial properties shall be provided at all times during the contract period. The Contractor shall restore to its previous condition as directed by the Engineer any private property, City property, or utilities damaged by its construction. No payment shall be made to the Contractor for any required restoration of private property, City property or utilities, unless otherwise noted.

**SP-2.04 CONTRACTOR'S WEEKLY SCHEDULE:**

In order that the Department of Public Works personnel may be advised of the work to be performed, the Contractor shall be required to submit weekly to the Engineer of its designated representative a schedule indicating the proposed work plan for the forthcoming week. Such shall be delivered to DPW not later than Friday preceding the work plan week unless other arrangements have been made for this submittal.

**SP-2.05 MONTHLY CONSTRUCTION ESTIMATES AND RELEASE OF LIEN:**

The Contractor shall prepare on or about the first day of each month an estimate of the work completed in the preceding month. Said estimate shall be prepared on standard forms provided by the Engineer, and three (3) signed originals shall be provided by the Contractor. Monthly construction estimates shall include separate breakdowns for each base bid and alternates. Any disputed quantities shall be adjusted as directed by the Engineer prior to each partial payment, as provided for in Article 10.05 of the Agreement.

Certification that all subcontractors have been paid for the previous month's work shall be submitted with each partial payment request on forms provided by the Engineer.

An update of the overall project schedule shall be submitted with each partial payment request.

**SP-2.06 CONTRACTOR'S REPRESENTATIVE:**

Add the following paragraph to Article 8.02 of the Agreement:

"The Contractor shall submit in writing to the Engineer the name of its duly authorized representative who will be present on the job during all work activities and is authorized to make decisions for the Contractor. Any change in the contractor's representative shall require written notification to the Engineer prior to such change".

**SP-2.07 SANITARY FACILITIES**

Contractor shall at all times provide a lockable sanitary facility available for engineer's use for the duration of the project.

**SP-2.08 DAMAGE TO ADJACENT STREETS:**

Any streets (including detour routes) consisting of travel lanes, curbs, gutters and shoulders, outside the project area (not designated for construction), which are determined by the Engineer to have been damaged due to construction related operations and/or equipment, shall be restored by the Contractor to its original or better condition without any cost to the City and to the satisfaction of the Engineer.

**SP-2.09 PROJECT PHOTOGRAPHS:**

The Contractor will not be required to furnish photographs of the project; however, the Engineer may or may not take photographs of the area immediately prior to and after completion of the construction for record and information. To assure that there will not be any conflict with this photography, the Contractor shall not perform clearing operations or actions which will disturb any street or area within the project until the Engineer has been advised thereof and has had adequate opportunity to perform the desired photography.

**SP-2.10 PROJECT VIDEOTAPES:**

The Contractor shall submit to the Engineer for approval prior to commencing work a DVD containing a continuous color video recording including complete coverage of pre-construction conditions of all surface features within the construction's zone of influence, (including detour routes) simultaneously produced audio commentary and electronic display of time and date. The video recording shall be sufficient to fulfill the technical and forensic requirements of the project and provide continuous unedited coverage, establishing locations and viewer orientation with clear, bright, steady and sharp video images with accurate colors free of distortion or other imperfections. The video must be accompanied by a detailed log of the recorded contents including date, locations, track numbers and features. No work shall be allowed to commence until the completed video and Log are approved by the Engineer.

The cost of providing this work should be included under the pay item for Mobilization and no separate payment shall be made.

**SP-2.11 PROJECT CLEAN-UP:**

Clean-up on this project is extremely important and the Contractor will be responsible for keeping the construction site neat and clean with debris being removed regularly as the work progresses.

If project cleanliness and/or dust control reaches an unacceptable level in the opinion of the Engineer, the Engineer will notify the Contractor in writing. If the Contractor does not act to correct the situation within 4 hours in the case of dust control or within 24 hours in the case of general cleanliness, the Engineer may call upon outside forces to provide the appropriate services. Cost of all such activities shall be charged to the Contractor via contract change order.

**SP-2.12 PERMITS:**

The Contractor shall be responsible for obtaining all applicable City permits for this project. These can include but may not be limited to: Rights-of-Way permit(s), Site Clearing/Tree Removal permit(s), and Drainage /Earthwork permit(s). The Contractor shall supply any required plans or other information to the issuing department.

The time required to prepare, submit, review, and issue the permits shall be included in the contract time and no payment shall be made for any delay incurred by this process.

Cost for obtaining City permits shall be included in the pay item for Mobilization, and no separate payment shall be made. The fee for a Rights-of-Way Construction Permit shall be waived by the City.

Copies of the Southwest Florida Water Management District Environmental Resource Permit and FDEP Water Permit will be provided to the Contractor prior to commencement of construction.

**SP-3.01 STREET CLOSURE AND MAINTENANCE OF TRAFFIC:**

A temporary street closure permit, to be secured by the Contractor, will be required for closure of a street, lane, or sidewalk within Rights-of-Way under the jurisdiction of the City of Tampa, Florida Department of Transportation, and Tampa Hillsborough Expressway Authority.

These permits will establish the requirements for the closure related to number of lanes and/or time of day lanes or street may be closed. The Contract shall adhere to the requirements as described in the permit(s). The cost for

obtaining temporary street closure permits shall be included in the pay item for Maintenance of Traffic and no separate payment will be made.

Maintenance of Traffic (MOT) on Meridian Avenue is restricted. There will be no lane closures between the hours of 5:00 AM and 9:00 AM and 3:00 PM through 7:00 PM, Monday through Friday. In addition, due to the Tampa Bay Times Forum event schedule, other restrictions may apply. Contractor shall coordinate any lane closures with the respective agencies a minimum of Forty-Eight (48) Hours in advance.

Vehicular (both personal and commercial) and pedestrian access to adjacent properties shall be maintained at all times. Unless approved otherwise by the City of Tampa one lane of traffic shall remain open during construction.

The cost for the various items associated with maintenance of traffic shall reflect the cost for placing and maintaining the item for the duration of construction.

Payment shall be made under:

Item No. SP-3.01-1	Maintenance of Traffic	LS
--------------------	------------------------	----

**SP-3.02 TRAFFIC INFORMATION SIGNS:**

The Contractor's attention is directed to Section 10 of the General Provisions, PROTECTION OF WORK AND PUBLIC, and to the consideration therein for providing Advanced Notice information signs advising the public of scheduled closures, thereby creating better understanding and relations during the construction. Variable message signs shall be set in-place at least two weeks prior to the closing.

Payment shall be made under:

Item No. SP-3.02-1	Mobilization	LS
--------------------	--------------	----

**SP-3.03 PROJECT SIGN:**

The Contractor shall furnish one (1) project signs in conformance with the general configuration and dimensions as shown on the attachment SIGN-1 and SIGN-2, which is made a part of these specifications. The signs shall be maintained in good condition until the completion of the project, and shall be located as instructed by the Engineer.

The cost of furnishing and maintaining the signs shall be included in the pay item for Mobilization and no separate payment shall be made.

**SP-3.04 NIGHT WORK:**

No work shall be performed at night unless approved by the City and/or Engineer prior.

**SP-4.01 DENSITY REQUIREMENTS:**

Refer to applicable sections of FDOT Standard Specifications (2013). Soil density testing shall be provided by the City of Tampa.

**SP-4.02 SOIL STABILIZATION:**

Refer to applicable sections of FDOT Standard Specifications (2013).

Payment shall be made under:

Item No. SP-4.02-1	Stabilization Type B (12")	SY
--------------------	----------------------------	----

**SP-4.03 SOIL BORING INFORMATION:**

A subsurface geotechnical investigation has been completed and is included with the contract documents. Refer to Geotechnical Engineering Report East Madison Street by Terracon Consultants, Inc dated August 12, 2013. Additional investigation required during construction will be at no cost to the City of Tampa.

**SP-4.04 TEMPORARY STOCKPILING:**

For temporary stockpiling of the excavated material within project limits (and anywhere within City limits) the Contractor shall adhere to the following procedure:

Public Right of Way

- A. The Contractor will not be allowed to stockpile suitable, excavated material within right-of-way for a period in excess of 30 calendar days. Unsuitable excavated material shall not be stockpiled within public right-of-way for a period in excess of 7 calendar days.

Location other than Public Right-of-Way

- B. The Contractor shall:
  - 1. Obtain written permission from the owner of the property where stockpiling is desired.
  - 2. At its own expense present the above letter and a contour plan of the site to the Engineer for approval of stockpiling site.
  - 3. At the conclusion of the stockpiling activity, the Contractor shall obtain a signed letter of release from the property owner that he/she is completely satisfied with the stockpiling operation and with the restoration of their property. A copy of the letter shall be furnished to the Engineer.

The time periods of stockpiling shall be specified by the Contractor in writing. Upon removal of stockpiled material, the Contractor shall clean up and grade the site to its original contours and conditions.

The City of Tampa shall not be a party to any agreement between the Contractor and private property owner(s). Regardless of the location of stockpiling, it shall be the Contractor's responsibility to make sure that stockpiling in no way constitutes a public hazard, nuisance and does not interfere with the natural surface runoff in the area.

**SP-4.05 DEWATERING:**

Dewatering operations shall be performed with consideration to possible effects to adjacent structures. The condition of adjacent structures and surrounding areas that may be affected by the lowering of the groundwater level shall be surveyed and documented prior to beginning dewatering operations. Upon completion of dewatering activities the contractor shall inspect adjacent structure and surrounding areas to determine if any damage may have occurred. Contractor shall document the results of this inspection.

The dewatering shall be done by an experienced contractor. The Contractor shall submit a dewatering plan signed and sealed by a professional engineer registered in the state of Florida detailing the proposed methodology by which dewatering is to be accomplished and shall include a list of the structures and areas to be surveyed for potential damage.

Discharges from dewatering activities shall meet State and Federal regulatory criteria. Dewatering permitting, as regulated by the Southwest Florida Water Management District, shall be the responsibility of the Contractor.

Any dewatering requiring discharge to the City of Tampa sanitary sewer system shall be metered. The Contractor shall submit the meter details and specifications to the Engineer for approval prior to installation. The discharge shall not exceed 250 gallons per minute as directed by the City of Tampa Wastewater Department. The dewatering discharge connection to a sewer manhole or pipe shall meet the City of Tampa criteria.

Dewatering will only be allowed for one (1) calendar year from the issuance of a Service Commitment by the City of Tampa Wastewater Department. Should the dewatering activities need to extend past this date, the Contractor is to notify the Engineer 30-days in advance of the expiration of the Commitment to allow sufficient time for the Service Commitment to be extended. A copy of the Service Commitment will be provided to the Contractor prior to commencement of dewatering activities on Madison Street. The Contractor will be required to create a temporary customer service account with the City of Tampa for to allow for meter reading and inspection of the meter. The Contractor shall provide the City with the meter serial number and the meter shall be maintained and used on-site throughout the duration of the project dewatering activities. The City may, at its discretion, sample the discharge into the sewer system. Payment will be made to the Contractor for the fee paid to the City for the disposal of the discharge on the City sanitary sewer system.

Payment shall be made under:

Item SP-4.05-1	Dewatering Discharge Disposal	Allowance
----------------	-------------------------------	-----------

**SP-4.06 REMOVAL OF UNSUITABLE SOILS:**

Refer to Geotechnical Engineering Report East Madison Street by Terracon Consultants, Inc dated August 12, 2013 and included with the contract documents for unsuitable material classification and locations. The Contractor shall be responsible for excavation, removal, and disposal of all material deemed unsuitable, and replace with suitable backfill. Payment will be made to the Contractor per ton of unsuitable soil removed measured by the truckload.

Payment shall be made under:

Item SP-4.06-1	Removal of Unsuitable Soils	Tons
----------------	-----------------------------	------

**SP-5.01 UTILITY PROTECTION CONSIDERATIONS:**

The Contractor shall protect all utilities and other facilities within and adjacent to the construction area, unless a utility firm has conclusively indicated, or such is shown on the plans, that the certain adjustment, removal, reconstruction, or protection of the utility's facility will be performed by that respective utility.

The Contractor shall make every effort to protect all water mains. If the main is damaged or lost, the Contractor shall replace the affected line in strict accordance with the City of Tampa Water Department Specifications and Construction Standards, latest, edition, at no extra cost to the City, and he shall assure that service is maintained at all times.

The Contractor shall make every effort to protect all sanitary sewer lines. If the main is damaged or lost, the Contractor shall replace the affected line in strict accordance with the City of Tampa Wastewater Specifications and Construction Standards, latest edition, at no extra cost to the City.

It will be the Contractor's responsibility to preserve all existing sanitary sewer services without interruption--unless noted otherwise--during the construction of storm sewers or the repairs or reconstruction of sanitary sewers. When the construction of storm sewers, repair or reconstruction of sanitary sewers has been completed, all temporary connections shall be removed. Sewers shall be cleaned of all settled solids and debris removed and disposed of properly.

The cost of handling sanitary sewers during construction, including cost of all labor, materials, and equipment or other items incidental to completing the job, shall be included in the contract price as bid for the contract items and no separate payment shall be made.

It will be the Contractors responsibility to preserve all existing ditches, swales, force main, gravity main, laterals, etc., and other stormwater appurtenances and facilities pertaining thereto whether owned or controlled by City, other governmental bodies or privately owned by individuals, firms or corporations.

Any temporary measures constructed shall first be approved by the Engineer. The cost of such temporary measures shall be included in the contract price for storm sewer items and no separate payment shall be made.

The Contractor shall furnish, install, and remove sheeting and shoring and other protective measures as may be necessary to satisfactorily accomplish the construction of this project. The cost of such sheeting and shoring and other protective measures shall be included in the unit prices as bid for the storm sewer items and no separate payment shall be made.

In the event that a utility line is located within the limits shown in Diagram P of these specifications, the following exceptions may be made:

- a) If the utility is incorrectly shown on the plans and the actual location is found to be completely within the limits of Zone B, the Contractor will be eligible to receive compensation for steel sheeting and shoring to be furnished, installed, and removed to protect the portions of such utility line lying within Zone B as directed and approved by the Engineer.
- b) If the utility is incorrectly shown on the plans and the actual location is found to be within the limits of Zone A so that relocation will be necessary, as determined by the Engineer, the Contractor will be compensated for performing the relocation construction when directed and approved by the Engineer, at applicable contract unit prices.

The above provisions shall only apply to water, sanitary sewer and drainage lines, which are, in general parallel to the lines under construction.

The limits and the definitions of Zones A and B are not intended to define any excavation requirements and shall in no way cause any conflict with any authorized safety requirements or applicable governmental laws and regulations.

Utility lines which are correctly located on the plans and fall within the limits of Zone B or A of Diagram P shall not be considered as being either exception (a) or (b) and are not eligible for compensation.

Compensation for steel sheeting and shoring furnished, installed and removed shall be paid for as extra work in accordance with Article 7.02, EXTRA WORK, on Page A-8 of the Tampa Agreement when approved for use by the Engineer. Such approval shall be for its use only, and the Contractor shall have full responsibility for the design, installation, and removal of the sheeting and shoring. The Contractor shall obtain the services of a registered Professional Engineer to design and certify the sheeting and shoring plans.

**SP-5.02 ADJUSTMENT OF UTILITIES AND PUBLIC SERVICE INSTALLATIONS:**

Storm and sanitary sewer manhole covers, valve covers or boxes, water meter boxes, fire hydrants, and vaults located within the limits of construction of the pavement or sidewalk area to be constructed, reconstructed or overlaid shall be relocated or adjusted by the Contractor to conform with the new pavement or sidewalk elevation as a part of the work of constructing or reconstructing the pavement or sidewalk and no separate payment will be made.

Appurtenances of other utilities will be relocated or adjusted by the utility company owning or having jurisdiction over the respective utility.

**SP-5.03 REMOVAL OR ADJUSTMENT OF PUBLIC UTILITIES:**

The Contractor will make necessary arrangements with public utility companies for removal or adjustments of existing utilities, whether shown or not shown on the plans, where such removal or adjustment is determined by the Engineer to be essential to the performance of the required construction, provided normal construction procedures are used by the Contractor.

Relocations or adjustments requested by the Contractor on the basis of the use of a particular method of construction or a particular type of equipment shall not be considered as being essential to the construction of the project if other commonly used methods or equipment could be employed without the necessity of relocating or adjusting the utility. The Engineer will determine the responsibility for any such adjustment of utilities.

Relocations or adjustments requested for the Contractor's convenience or because of delivery of materials to the job site shall be the responsibility of and at the expense of the Contractor.

The Contractor shall be required to coordinate its activities with relocation work by the utilities. This schedule may be adjusted to "fit" the Contractor's proposed schedule, but it will include periods during which the Contractor's ability to perform work in the relocation area will be limited, with no additional compensation.

**SP-5.04 UNDERGROUND ELECTRICAL**

The Contractor shall provide all labor, equipment, and other incidentals necessary to install 2-inch, 4-inch, and 6-inch diameter "SCH 40" PVC pipe and appurtenances at the locations shown on the Utility Adjustment Plans. The material is being furnished by Tampa Electric Company (TECO) including the PVC Conduit Pipe, Couplings, Elbows, Glue, and Mule Tape (aka Pull Tape). The Contractor is required to pick up the material at the TECO storage yard at the NE corner of 78th Street and Palm River Road. TECO is requesting that the contractor provide 45 days' notice prior to the date the contractor wants the material so they can order it and have it on-site for the day when the contractor desires to pick it up. The cost of transporting the material to the job site shall be included in the unit price for installing the conduit.

Where shown on the plan, the Contractor shall "Stub-out" the conduit runs aboveground at each light pole location and at the locations of future handholes to be installed by TECO. Mule tape shall be installed with compressed air after the complete installation of conduit with the appropriate size mandrel or "rabbit" blown through the conduit with mule tape attached to it. After installation of each stub-out, the pipes shall be supported by tying to a wooden or metal stake and the ends of pipe above ground shall be sealed off from the elements.

The cost for installing the conduits shall also include the capping of existing service conduits indicated in the plans to be abandoned.

Payment shall be made under:

Item No. SP- 5.04-1	2” PVC Conduit (Install only) (Direct Burial)	LF
Item No. SP-5.04-2	4” PVC Conduit (Install only) (Direct Burial)	LF
Item No. SP-5.04-3	6” PVC Conduit (Install only) (Direct Burial)	LF
Item No. SP-5.04-4	Electrical Manhole(Install only)	EA

**SP-6.01 USE OF CITY WATER SYSTEM:**

A Tampa Water Department portable meter shall be utilized when obtaining water from the City system. The Contractor will be responsible for obtaining the meter from the City and no separate payment will be made for the meter or water usage.

**SP-6.02 WATER MAIN CONSTRUCTION:**

All materials and workmanship shall be in accordance with the Specific Provisions, Contract Pay Items, Construction Details, & Material Specifications for Water Main Relocation (WR) made a part of these specifications. The Contractor shall also comply with any applicable sections of the City of Tampa Water Department Technical Specifications and Construction Standards and Materials Specifications, latest edition available from the Tampa Water Department, with the exception that pipe joint gaskets shall be made of EPDM Rubber.

Use only brass or cast iron fittings for 3” and less water main tapped connections. Use of galvanized fittings for 3” and less water main tapped connections is not allowed.

**SP-7.01 FILLING LOW AREAS WITHIN CITY LIMITS:**

The Contractor under Sec. 21-27 (Permit Requirements) of the City of Tampa Code is prohibited from filling any area public or private (except where shown on the construction plans) within the project limits or anywhere within the City limits without a permit.

For filling and/or grading any area, the owner of such area shall obtain a permit from the Stormwater Department, City of Tampa. The owner shall submit existing and proposed contour plans of the area to be filled and the adjacent land for determination if a permit could be issued. Drainage patterns cannot be altered to the detriment of neighboring property owners or public rights-of-way.

Concurrently the permit application will be reviewed by the Parks Department. The Contractor will be required to verify with City of Tampa Transportation Department the extent of the work covered under the Right-of-Way use permit and seek additional permits from the City of Tampa as necessary.

The Contractor shall not deposit any fill material within the City limits without an approved permit. A copy of the permit shall be submitted to the Engineer, by the Contractor prior to any filling or grading operation.

**SP-7.02 ENVIRONMENTAL PROTECTION:**

The Contractor will be held liable for the violation of any and all environmental regulations. Violation citations carry civil penalties, and in the event of willful violation, could result in criminal penalties. Even though permits are issued to the City does not relieve the Contractor in any way of its environmental obligations and responsibilities associated with environmental protection under the law.

The City will secure the NPDES permit prior to commencement of construction. The contractor will be responsible for compliance with the conditions of the permit. The conditions of the permit may include and are not limited to: installation, maintenance of erosion control devices and other best management practices, and filing a NPDES Stormwater Notice of Termination with the FDEP upon completion of construction and once stormwater discharges associated with construction activity have ceased.

### **SP-7.03 REINFORCED CONCRETE PIPE/BOX:**

All reinforced concrete pipe, storm drain, and sewer pipe, all reinforced concrete elliptical pipe and all pre-cast reinforced concrete box sections shall be inspected and accepted by a testing laboratory approved by the Engineer.

Each pipe/box shall bear the stamp of acceptance of the testing laboratory and the Engineer shall be supplied with a copy of each inspection report, including a certification of "D-load", absorption test and conformance to the dimensional and all other designations of ASTM specifications. The cost of such inspection services shall be included in the unit prices for the respective pipe/box items.

Unless specified otherwise on plans or specifications, or directed by the Engineer, all storm sewer and culvert pipes shall be ASTM Class III, B wall thickness. All steel shall be grade 60.

All joints in elliptical concrete pipe and round R.C.P. shall be provided with filter fabric or concrete jacket as per FDOT Standard Index No. 280 and as directed by the Engineer. Filter fabric shall be provided at all joints, except the last two joints not supported by a structure; these joints shall be provided with a concrete collar.

The cost of the filter fabric jackets and concrete collars shall be included in the unit cost of pipe. No separate payment will be made for such jackets or collars.

All round and elliptical reinforced concrete pipe and all pre-cast concrete box sections shall be manufactured and installed without lift holes. The Contractor shall install the pipe/box with the use of slings, hooks or other methods approved by the Engineer.

All round and elliptical reinforced concrete pipe shall be manufactured without visible corrugations on the internal wall. Any pipe with visible corrugations on the internal wall shall be rejected.

The City does not require stormwater pipes to be televised and/or laser profiled, nor does the City allow resilient connectors.

Prior to any putting the system into operation or allowing the flow of any discharges, the stormwater system shall be cleaned thoroughly of soil, debris, and any fine particles, subject to the Engineer's approval.

The Contractor shall provide all labor, equipment, and materials to furnish and install the reinforced concrete pipe. The furnish and installation of the reinforced concrete pipe shall include, but may not be limited to:

1. Excavating the trench and removal of excess material if necessary;
2. Maintaining the trench which shall include de-watering and sheeting and bracing as required by OSHA or as directed by the Engineer;
3. Cleaning dirt and foreign material from within pipe and bell;

4. Furnishing and installing approved pipe and pipe shorts as part of the pipeline;
5. Backfilling, compaction and consolidation shall be done in accordance with the requirements of the FDOT Standard Specifications for Road and Bridge Construction;
6. All necessary restoration including but not limited to sod, landscaping, curb, sidewalk, and restoring the roadway or right-of-way in conformance with the Standard Details;
7. Cleaning up and removing excess water main pipe and appurtenances;

Payment shall be made under:

Item No. SP-7.03-1	Pipe Conc. Culv. (Class III)(18" RCP)	LF
Item No. SP-7.03-2	Pipe Conc. Culv. (Class III)(30" x19" ERCP)	LF
Item No. SP-7.03-3	Pipe Conc. Culv. (Class III)(24" RCP)	LF

#### **SP-7.04 DRAINAGE STRUCTURES:**

1. All inlets and manholes will be constructed according to the FDOT Standard Specifications, Section 425 and according to the specifications herein. All manholes shall be traffic bearing type.
  - a) The minimum distance from the top of the opening for the highest pipe to the bottom of the top slab shall be ten inches (10"); 12"+ from top of pipe to bottom of top slab, before "stack" is used.
  - b) The minimum diameter for stacks shall be as follows:
    - Twenty-four inches (24") for four feet (4') heights, Thirty-six inches (36") for four feet (4') to six feet (6') heights, and Forty-eight inches (48") for heights over six feet (6').
    - The stacks shall be symmetrical about the openings, five inches (5") minimum wall thickness, reinforced, and keyed (unless constructed of brick) as per the appropriate FDOT standard.
  - c) The minimum distance between pipe openings shall be nine inches (9").
  - d. For four-sided structures having openings in one or more corners, individual shop drawings must be submitted for prior approval.
2. If warranted by field conditions and directed by the Engineer, the Contractor shall, at such locations, construct rectangular brick drainage structures (in place of concrete drainage structures), according to the standards specified below:

Brick construction shall be as follows:

- a. Wall thickness minimum eight inches (8") up to eight feet (8') height, unless specified otherwise.
- b. Wall thickness minimum twelve inches (12") up to twelve feet (12') height, unless specified otherwise.
- c. Brick shall be laid in 1:2 (Portland cement-sand) mortar.
- d. Before laying the bricks in mortar, the bricks shall be thoroughly sprinkled with clean water (not to saturation extent).

- e. Brick for manhole and inlet structures shall be laid in stretcher courses, with every sixth course a header course.
  - f. All brick structures shall be plastered smooth inside and outside with 1/2" thick, 1:2 (Portland cement-sand) mortar.
  - g. No "unsound" brick shall be used. As a test, if a light hammer blow, with the brick held lightly in hand, does not produce a uniform crisp ringing sound, the brick shall be construed to have crack(s), or otherwise unsound and shall be rejected.
  - h. All bricks shall be solid clay.
3. No additional compensation shall be paid for brick structures.
  4. For all types of manholes, the top and bottom slabs shall be as per applicable FDOT standards, even if brick is allowed to be used in the manhole walls. The following criteria shall apply to slab thicknesses and steel reinforcements:
    - a. Top and bottom slabs shall have the same thicknesses and reinforcements in any manhole structure.
    - b. The minimum slab thickness and reinforcement shall be: 8" thick and #6 bars at 6" centers both ways.
    - c. 4'x6' or larger manholes including circular manholes with inside diameter of 5.0' or larger shall have 10" thick slabs with #7 bars at 6" centers both ways.
    - d. Unless specified on the plans, four sided structures with both inside dimensions in excess of 8.0' and circular structures with inside diameter in excess of 8.0' shall not be covered by D.O.T. and the above criteria.
  5. All grate inlets shall conform to the City of Tampa design standards.
  6. Grates on inlets, as well as all other structures, shall be Traffic Bearing Type, unless specified otherwise, and subject to approval of the Engineer. All grate inlets shall be fitted with an approved metal frame at the top to seat the grates.
  7. All Type-P and Type-J manholes shall be bid at one average unit price regardless of size and shape unless indicated otherwise in the proposal.
  8. Vertical support columns (one in case of Type 5 inlet) shall be constructed by the contractor, as a part of the FDOT Type 5 and 6 curb inlets, where and as directed by the Engineer.
  9. Side openings in curb and grate type inlets may be specified in the plans to meet site conditions. The Contractor shall provide such openings as part of the required work and no separate payment shall be made.
  10. When precast drainage structures are requested as substitutions for poured in place concrete structures, Contractor shall meet the following additional requirements:
    - a. Minimum height of the base structure (manhole or inlet barrel) unless restricted by design, shall be 5'-0" before extending the structure height by another precast "barrel". The minimum height of the top (extension) precast "barrel" shall be 1'-6". "Barrel" extensions of less than 1'-6" height shall be cast in place with continuous reinforcement.

- b. Four-side structures may be considered as an alternate to circular structures, but not the reverse.
  - c. For City type curb inlets, unless specified otherwise, directed by the Engineer, or to accommodate larger pipes, the Contractor may use 3'x4' (inside dimensions) substructures. This structure shall have same slab and wall thicknesses and steel reinforcing as specified for "Type E" grate inlet.
  - d. When circular structures are precast in accordance with ASTM C478, the following limitations will apply:
    - (i) Maximum inside diameter shall not exceed 96".
    - (ii) Minimum wall thickness for 42" and 48" diameter substructures shall be 6"; 7" for 72" diameter, 8" for 84" and 96" diameters.
    - (iii) Vertical reinforcement in walls shall be equal in area to the required circumferential reinforcement area. Reinforcement spacing shall not exceed 12" O.C. in either direction.
  - e. The location of the pipe holes and adequate basic substructures height, unless directed otherwise by the Engineer, shall be the responsibility of the Contractor.
  - f. Contractor shall submit shop drawings only as specified below:
    - (i) One each-typical for different type of structures.
    - (ii) For structures directed by the Engineer, and/or requiring change with respect to design plans, or as otherwise required by these specifications.
  - g. No compensation shall be paid to the Contractor for precast drainage structures which are unusable due to site conditions or changes in plans.
  - h. Provide material testing acceptance reports by a licensed private laboratory verifying:
    - (i) That the structures were constructed in accordance with detail shown on the plans and/or typical Drawings.
    - (ii) Specific reference shall be made to the exact design criteria adhered to; if more than one, identify which criteria applies to which structures.
    - (iii) Identify the project title, project number, file number, date cast, structure, plan sheet number and station.
    - (iv) Reinforcement size, spacing, amount and cover.
    - (v) Concrete placement, curing and strength.
    - (vi) The testing laboratory stamp shall be placed on each structure prior to shipment.
11. All manhole and inlet structures shall be set on a minimum of a six-inch thick layer of compacted # 57 size coarse aggregate unless noted otherwise in the plans or specifications or unless the Engineer determines a thicker layer is required due to soil and/or water conditions. The layer of stone shall be wrapped in a filter fabric in accordance with SP-7.05 of these Specifications. Payment for the stone shall be included in the price of the structure.

12. All excavation for structures is included under these pay items.

Payment shall be made under:

Item No. SP-7.04-2	FDOT Curb Inlet Type P-5<10'	EA
Item No. SP-7.04-3	FDOT Curb Inlet Type J-5<10'	EA
Item No. SP-7.04-4	FDOT MH Type P-7, Partial	EA
Item No. SP-7.04-5	FDOT MH Type P-8<10'	EA

**SP-7.05 STANDARD FOR FILTER FABRIC:**

Unless specified otherwise on the plans, filter fabric shall be nonwoven fabric per FDOT Standard Specification, Sections 514 and 985. Payment for furnishing and placing the filter fabric shall be included in the contract price for the item or items to which it is incidental.

**SP-7.06 CONNECTION TO EXISTING INLET OR MANHOLE:**

The Contractor shall provide all labor, equipment and materials necessary to connect the proposed pipeline into an existing inlet or manhole as shown on the Plans, or as specified, and directed by the Engineer.

The work includes all excavation, breaking into the existing structure, closing of the existing slot, removal and disposal of rubble and excess materials, installation of storm sewer pipe, sealing the voids around the pipe, backfilling, compacting and all other work incidental to connection to existing inlet or manhole.

The cost of this work shall be included in the contract unit price for the size of pipe installed and no separate payment shall be made.

**SP-7.07 EROSION CONTROL:**

The Contractor shall implement erosion control measures as shown on the Construction Plans. The Contractor shall be required to submit an erosion control plan to the Engineer at the time of the pre-construction conference.

The erosion control plan shall indicate in detail all measures proposed by the Contractor to meet its erosion control obligations, including all items required to meet permitting conditions for the project. Any phasing of the erosion control plan shall also be shown.

Inspection reports shall be done by the Engineer in compliance with the SWPPP, and the Contractor will be notified of any activities that are not in compliance. In accordance with the SWPPP, the Contractor is required to initiate any necessary repairs within 24 hours of notification of Non-compliance. If the Contractor does not comply, then the Contractor shall cease work on the project until the repairs are made to the satisfaction of the Engineer.

The cost of providing, revising, updating, implementing the erosion control plan and maintaining of the Best Management Practices for the work on E Madison Street detailed in the plan shall be made under:

Item No. SP-7.07-1	Implementation & Maintenance of Erosion Controls	LS
--------------------	--	----

**SP-7.08 DRAINAGE STRUCTURE AND PIPE BEDDING:**

The Contractor shall furnish and install Bedding Material consisting of compacted FDOT #57 crushed stone material as approved by the Engineer.

For Drainage Structures:

- All manhole and inlet structures shall be set on a minimum of a six-inch thick layer of compacted # 57 size coarse aggregate unless the Engineer determines a thicker layer is required due to soil and/or water conditions. The layer of stone shall be wrapped in a filter fabric.

For Pipe Bedding:

- All pipe shall be set on City of Tampa Class B bedding consisting of a layer of compacted #57 size coarse aggregate the width of the trench at a depth that is a minimum of 4” below the outside diameter of the pipe to a height of one half of the outside diameter of the pipe. The bedding and pipe shall be wrapped in filter fabric and sand shall be placed the width of the trench to a height of 6” above the outside diameter of the pipe.

All filter fabric shall be in accordance with SP-7.05 of these specifications. Payment for the bedding material shall be included with the unit price for the structure or pipe contract item.

**SP-8.01 PAVEMENT SURFACES:**

Where shown on the plans the Contractor shall meet existing sidewalks, driveways and parking areas (concrete or asphalt) when possible with the proposed street replacement. At locations where existing sidewalks and driveways are not at the same elevations as the new grades, the Contractor may be required to reconstruct a portion of the sidewalk or driveway as directed by the Engineer. There will be no payment if existing sidewalks or driveways must be reconstructed due to negligence of the Contractor.

New pavement surfaces shall meet applicable sections of the FDOT Standard Specifications (2013) and the requirements of Sections 02510 – Saw-Cut Concrete Sidewalk, 02511- Shell Aggregate Concrete Sidewalk. Any areas of impact to existing pavers shall be reinstalled according to the appropriate details on the streetscape design plans.

Payment shall be made under:

Item No. 02511-1	Shell Aggregate Concrete	SF
Item No. 02510-1	Saw-Cut Concrete	SF

**SP-8.02 PRIME/TACK COAT:**

Refer to applicable sections of the FDOT Standard Specifications (2013).

**SP-8.03 BASE MATERIAL:**

Refer to applicable sections of the FDOT Standard Specifications (2013).

Payment shall be made under:

Item No. SP-8.03-1	Base Group 9 (LBR-150) (10")	SY
--------------------	------------------------------	----

**SP-8.04 PEDESTRIAN RAMPS:**

Refer to applicable sections of the FDOT Standard Specifications (2013).

Payment shall be made under:

Item No. SP-8.04-1	Concrete Pedestrian Ramp (6")	EA
--------------------	-------------------------------	----

**SP-8.05 CONCRETE CURB AND CURB AND GUTTER**

Refer to applicable sections of the FDOT Standard Specifications (2013).

Payment shall be made under:

Item No. SP-8.05-1	Concrete curb (Type F)	LF
Item No. SP-8.05-2	Concrete curb (Type D)	LF
Item No. SP 8.05-3	Concrete curb (Drop Curb)	LF

**SP-8.06 TURNOUTS**

Concrete turnouts shall meet FDOT design standards and standard specifications. Refer to applicable sections of the FDOT Standard Specifications (2010).

Payment shall be made under:

Item No. SP-8.06-1	Turnout Construction, Concrete (6")	SY
--------------------	-------------------------------------	----

**SP-9.01 RESTORATION OF LANDSCAPING WITHIN RIGHT-OF-WAY:**

Existing landscaping including small trees and shrubbery, walkways, planters, and irrigation systems may need to be removed or relocated to facilitate construction. The Contractor shall make provision for relocating and/or reconstructing any existing landscaping items as directed by the Engineer.

Cost of removing, relocating, and/or reconstructing the above items shall be included in the lump sum price for Clearing and Grubbing, and no separate payment shall be made.

**SP-9.02 TREE PROTECTION:**

The Contractor shall make provisions for tree protection to the satisfaction of the Engineer prior to any excavation or clearing and grubbing. All applicable site inspections by the City of Tampa Parks Department and all permits required for tree work shall be obtained by the Contractor prior to commencing work.

Tree barricades shall be constructed and maintained at the locations indicated on the Demolition Plan and/or as directed by the Engineer. Generally, barricades are to be placed ten (10) feet from the trunk of each protected tree, but a minimum of six (6) feet is acceptable when in conflict with the proposed construction and when approved by the City.

Barricades shall be constructed of commercially available pine lumber, as follows: Vertical members shall be 2" x 2" or larger, generally spaced six (6) feet apart. Horizontal members shall consist of one (1) 1" x 2" board.

Payment for tree protection shall be included in the lump sum price bid for Clearing and Grubbing and no separate payment shall be made.

**SP-9.03 TREE TRIMMING:**

The Contractor shall provide the services of an approved Certified Arborist when it is necessary to trim or cut a branch from a tree.

Payment for tree cutting or trimming shall be included in the lump sum price bid for clearing and grubbing and no separate payment shall be made.

**SP-9.04 LANDSCAPE INSTALLATION:**

The Contractor shall provide all labor, equipment and materials necessary to furnish and install plant material and mulch as shown on the Planting and Irrigation Plans. The work shall be in accordance with City of Tampa Parks Department Specification Section 02900 that is made a part of these specifications.

Any costs associated with the work that is not directly provided for by a bid item, but incidental to completion of the Landscaping, shall be prorated and included in the various contract pay items, and no separate payment shall be made.

Payment shall be made under:

Item No. 02900-1	Bald Cypress	EA
Item No. 02900-2	Sky Climber Live Oak	EA
Item No. 02900-3	Washington Palm (12' c.t.)	EA
Item No. 02900-4	Indian Hawthorne	EA
Item No. 02900-5	Variegated Flax Lily	EA
Item No. 02900-6	Dwarf Asian Jasmine	EA
Item No. 02900-7	Mulch	CY
Item No. 02900-8	Planting Mix	CY
Item No. 02910-1	Structural Soil	CY

Planting Soil Mix shall be subservient to each individual planting item.

**SP-9.05 IRRIGATION SYSTEM CONSTRUCTION:**

The Contractor shall provide all labor, equipment and materials necessary to construct irrigation systems as shown on the Landscape and Irrigation Plans. The work shall be in accordance with the City of Tampa Parks Department Specification Section 02440 that is made a part of these specifications.

Payment shall be made under:

Item No. 02440-1	Irrigation System	LS
------------------	-------------------	----

**SP-10.01 EXISTING PUBLIC FACILITIES:**

Existing public facilities as defined in G-1.03 that are removed by the Contractor to facilitate construction operations shall be properly stored to protect from damage and returned in good condition to a location designated by the Engineer. These items shall also include, but not be limited to, all public benches, light poles, shelters, roadway signs, etc., and removal/reinstallation of all public facilities shall be considered incidental to the cost of construction and no separate payment will be made.

**SP-10.02 WATER FOR DUST CONTROL:**

The work specified in this section consists of the application of water within the limits of construction or on streets used as detour routes in connection with the project. All dust control operations shall be performed by the Contractor at the time, location, and in the amount ordered by the Engineer. The application of water shall be under the control of the Engineer at all times. No water will be used to control dust without authorization of the Engineer. Water ordered by the Engineer to be applied on Saturdays, Sundays, or legal holidays will be considered part of the required work and no additional compensation will be allowed therefore.

Water used for dust control shall be free from pollution to the extent that its use will not constitute a nuisance or health hazard to anyone living in close proximity to the areas where it is used.

Cost of providing water shall be considered incidental to the project and included in the lump sum price for Maintenance of Traffic, and no separate payment shall be made.

**SP-10.03 RESTORATION OF EXISTING FENCE:**

The Contractor shall re-establish any existing fence that was damaged, destroyed, or removed in the course of the construction project, and no separate payment will be made.

**SP-10.04 RESTORATION OF MONUMENTATION:**

The Contractor shall re-establish any permanent survey or mapping monumentation, which is disturbed or destroyed in the course of the construction project, and no separate payment will be made.

**SP-11.00 SIGNAGE:**

Refer to applicable sections of the FDOT Standard Specifications (2010). Replace if necessary at locations shown in the Construction Plans.

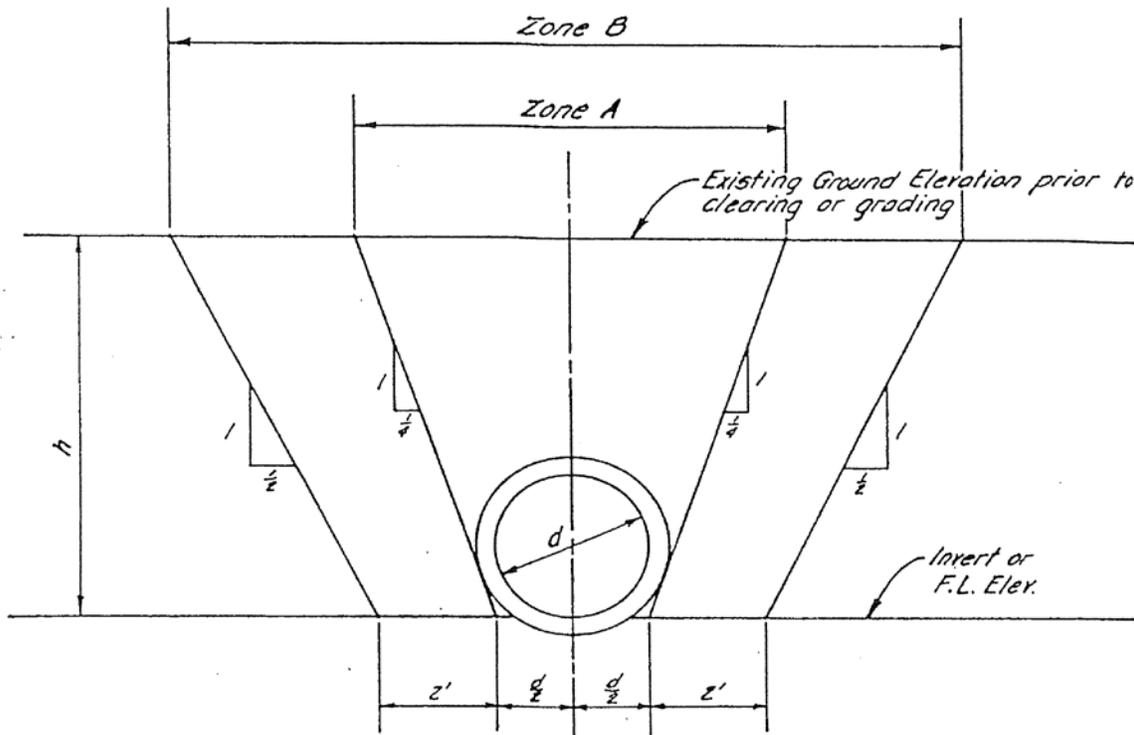
Payment shall be made under:

Item No. 700-20-11	Single Post Sign (F&I)	EA
Item No. 700-20-40	Relocate Existing Sign (Single Post)	EA

**SP-12.01 SITE FURNISHINGS**

Refer to drawings for specifications. Payment shall be made under:

SP-12.01-1	Bench - LandscapeForms	EA
SP-12.01-2	Trash Receptacle, LandscapeForms	EA
SP-12.01-3	Bicycle Rack, LandscapeForms	EA
SP-12.01-3	Pooch Station, Modern Dog Kit	EA



$$A = d + 0.5h$$

$$B = 4' + d + h$$

$d$  = Inside diameter of storm sewer pipe or inside width of box culvert.

$h$  = Depth per existing gravel to invert or flow line elevation.

DIAGRAM P

END OF SECTION SPECIFIC PROVISIONS

**Mission:**

To protect, promote & improve the health of all people in Florida through integrated state, county & community efforts.



**Rick Scott**  
Governor

**John H. Armstrong, MD, FACS**  
State Surgeon General & Secretary

**Vision:** To be the Healthiest State in the Nation

December 17, 2013

David L. Vaughn  
Contract Administration, Planning & Design  
306 E Jackson Street, 4N  
Tampa, FL 33

Re: Letter Acknowledging Acceptability of Use of a General Permit For Construction of Water Main Extensions

PWS ID Number: 6290327  
Permit Number: 0168017-1114-DSGP-DEP  
Receive Date: December 6, 2013  
Expiration Date: December 16, 2018  
Project Name: East Madison Street Improvement #7956  
Project Location: Hillsborough County

Dear Mr. Vaughn:

On December 6, 2013, the Hillsborough County Health Department received a "Notice of Intent to Use the General Permit for Construction of Water Main Extensions for PWSs" [DEP Form No. [62-555.900\(7\)](#)] under the provisions of Rule [62-4.530](#) and Chapter [62-555](#), Florida Administrative Code (F.A.C.). The proposed project includes water main relocation along the north side of East Madison Street a total of 208 LF of 12-inch DIP water main.

Based upon the submitted Notice and accompanying documentation, this correspondence is being sent to advise that the Department does not object to the use of such general permit at this time. Please be advised that the permittee is required to abide by Rule [62-555.405, F.A.C.](#), all applicable rules in Chapters [62-4](#), [62-550](#), [62-555](#), F.A.C., and the General Conditions for All General Drinking Water Permits (found in [62-4.540, F.A.C.](#)). The permittee shall comply with all sampling requirements specific to this project. These requirements are attached for review and implementation.

Pursuant to F.A.C. Rule 62-4.540(2), the general permit is valid only for the specific activity indicated, i.e., substantial deviations to the design and construction of this project, e.g., moving the point of connection, etc. will require a new general permit. The project must conform to the description contained in your Notice of Intent to Use the General Permit, and be complete or substantially complete prior to requesting clearance to place the system into service. Clearance application record drawings must show chlorine injection point(s) and bacteriological sample locations identifiable on lab sheets. Pursuant to Rule [62-555.345, F.A.C.](#), the permittee shall submit a certification of construction completion [DEP Form No. [62-555.900\(9\)](#)] to the Department and obtain approval, or clearance, from the Department before placing any water main extension constructed under this general permit into operation for any purpose other than disinfection or testing for leaks.

**Florida Department of Health – Hillsborough County**

Division of Environmental Health • Safe Drinking Water Program

P.O. Box 5135

Tampa, FL 33675-5135

PHONE: (813) 307-8059 • FAX: (813) 272-7242

[www.hillscountyhealth.org](http://www.hillscountyhealth.org)

**www.FloridasHealth.com**

TWITTER: HealthyFLA

FACEBOOK: FLDepartmentofHealth

YOUTUBE: fldoh

When any existing asbestos cement (AC) pipes are replaced under this permit, the permittee shall do so in accordance with the applicable rules of the Federal Asbestos Regulation and Florida DEP requirements. For specific requirements applicable to AC pipes, the permittee should contact the Florida Department of Environmental Protection Southwest District Office Air and Waste Management section managers prior to commencing any such activities at (813) 632-7600. Please be aware that a notification is required to be submitted to the Department for a regulated project.

If the project was designed under the responsible charge of a professional engineer and is permitted by the Department, construction of the project must be under the responsible charge of a professional engineer. This certification must be based upon the observations of the construction made by that engineer or a representative under his direct supervisor and upon the review of shop drawings, test records or results, and record drawings either made by the professional engineer or a representative under his direct supervision.

Within 30 days after the sale or legal transfer of ownership of the permitted project that has not been cleared for service in total by the Department, both the permittee and the proposed permittee shall sign and submit an application for transfer of the permit using Form [62-555.900\(8\), F.A.C.](#), with the appropriate fee. The permitted construction is not authorized past the 30-day period unless the permit has been transferred.

This permit will expire five years from the date of issuance. If the project has been started and not completed by that time, a new permit must be obtained before the expiration date in order to continue work on the project, per Rule [62-4.030, F.A.C.](#)

Should you have any questions, please call the permitting department at (813) 307-8015 x 5934, or visit our [website](#).

Sincerely,



Donald R. Ehlenbeck, PE  
Professional Engineering Administrator

DRE/clg

cc: Janice R. Davis, PE – Tampa Water Department  
Hamidreza Sahebkar, PE – Stantec Consulting Services, Inc.  
Judy Seenath – HCHD  
Therese LaDouceur – HCHD

### General Conditions

The permittee shall be aware of and operate under the Permit Conditions below. These applicable conditions are binding upon the permittee and enforceable pursuant to Chapter 403, Florida Statutes.

[F.A.C. Rule [62-555.533\(1\)](#)]

1. The terms, conditions, requirements, limitations and restrictions set forth in this permit, are "permit conditions" and are binding and enforceable pursuant to Sections [403.141](#), [403.727](#), or [403.859](#) through 403.861, F.S. The permittee is placed on notice that the Department will review this permit periodically and may initiate enforcement action for any violation of these conditions.
2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the Department.
3. As provided in Subsections 403.087(6) and 403.722(5), F.S., the issuance of this permit does not convey any vested rights or any exclusive privileges. Neither does it authorize any injury to public or private property or any invasion of personal rights, nor any infringement of federal, state, or local laws or regulations. This permit is not a waiver of or approval of any other department permit that may be required for other aspects of the total project which are not addressed in this permit. The issuance of a permit does not relieve any person from complying with the requirements of Chapter [403](#), F.S., or Department rules.
4. This permit conveys no title to land or water, does not constitute State recognition or acknowledgment of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the State. Only the Trustees of the Internal Improvement Trust Fund may express State opinion as to title.
5. This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal, or plant life, or property caused by the construction or operation of this permitted source, or from penalties therefore; nor does it allow the permittee to cause pollution in contravention of Florida Statutes and Department rules, unless specifically authorized by an order from the Department.
6. The permittee shall properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed and used by the permittee to achieve compliance with the conditions of this permit, as required by Department rules. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit and when required by Department rules.
7. The permittee, by accepting this permit, specifically agrees to allow authorized Department personnel, upon presentation of credentials or other documents as may be required by law and at reasonable times (reasonable time may depend on the nature of the concern being investigated), access to the premises where the permitted activity is located or conducted to:
  - a. Have access to and copy any records that must be kept under conditions of the permit;
  - b. Inspect the facility, equipment, practices, or operations regulated or required under this permit; and
  - c. Sample or monitor any substances or parameters at any location reasonably necessary to assure compliance with this permit or Department rules.
8. If, for any reason, the permittee does not comply with or will be unable to comply with any condition or limitation specified in this permit, the permittee shall immediately provide the Department with the following information:
  - a. A description of and cause of noncompliance; and
  - b. The period of noncompliance, including dates and times; or, if not corrected, the anticipated time the noncompliance is expected to continue, and steps being taken to reduce, eliminate, and prevent

- recurrence of the noncompliance. The permittee shall be responsible for any and all damages which may result and may be subject to enforcement action by the Department for penalties or for revocation of this permit.
9. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source which are submitted to the Department may be used by the Department as evidence in any enforcement case involving the permitted source arising under the Florida Statutes or Department rules, except where such use is prescribed by Sections [403.111](#) and [403.73](#), F.S. Such evidence shall only be used to the extent it is consistent with the Florida Rules of Civil Procedure and appropriate evidentiary rules.
  10. The permittee agrees to comply with changes in Department rules and Florida Statutes after a reasonable time for compliance; provided, however, the permittee does not waive any other rights granted by Florida Statutes or Department rules. A reasonable time for compliance with a new or amended surface water quality standard, other than those standards addressed in Rule [62-302.500](#), shall include a reasonable time to obtain or be denied a mixing zone for the new or amended standard.
  11. This permit is transferable only upon Department approval in accordance with Rule [62-4.120](#) and [[62-730.300](#)], F.A.C., as applicable. The permittee shall be liable for any non-compliance of the permitted activity until the transfer is approved by the Department.
  12. This permit or a copy thereof shall be kept at the work site of the permitted activity.
  13. This permit also constitutes:
    - a. Determination of Best Available Control Technology (BACT)
    - b. Determination of Prevention of Significant Deterioration (PSD)
    - c. Certification of compliance with State Water Quality Standards (Section 401, PL 92-500)
    - d. Compliance with New Source Performance Standards
  14. The permittee shall comply with the following:
    - a. Upon request, the permittee shall furnish all records and plans required under Department rules. During enforcement actions, the retention period for all records will be extended automatically unless otherwise stipulated by the Department.
    - b. The permittee shall hold at the facility or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation) required by the permit, copies of all reports required by this permit, and records of all data used to complete the application for this permit. These materials shall be retained at least three years from the date of the sample, measurement, report, or application unless otherwise specified by Department rule.
    - c. Records of monitoring information shall include:
      - i. the date, exact place, and time of sampling or measurements;
      - ii. the person responsible for performing the sampling or measurements;
      - iii. the dates analyses were performed;
      - iv. the person responsible for performing the analyses;
      - v. the analytical techniques or methods used;
      - vi. the results of such analyses.
  15. When requested by the Department, the permittee shall within a reasonable time furnish any information required by law which is needed to determine compliance with the permit. If the permittee becomes aware the relevant facts were not submitted or were incorrect in the permit application or in any report to the Department, such facts or information shall be corrected promptly.

**A Civil Penalty May Be Incurred**

**if this project is placed into operation before obtaining a clearance from the Hillsborough County Health Department.**

Requirements for clearance upon completion of projects are as follows:

**1. Clearance Form**

Submission of a complete and fully executed Department of Environmental Protection (DEP) Form [62-555.900\(9\)](#) *Certification of Construction Completion and Request for Clearance to Place Permitted PWS Components into Operation*. The DEP clearance application form is only applicable to DEP general permits, and the DOH clearance application form is only applicable to DOH single-service general permits, i.e., a DEP CLEARANCE APPLICATION WILL NOT BE ACCEPTED FOR A DOH SINGLE-SERVICE CONNECTION CLEARANCE AND VICE VERSA. All application forms are available from the Hillsborough County Health Department Drinking Water Permitting website at: [http://www.hillscountyhealth.org/env\\_water\\_permitting.htm](http://www.hillscountyhealth.org/env_water_permitting.htm), or by mail at: P.O. Box 5135, Tampa, FL 33675-5135.

**2. Record Drawings**

Submit record drawing of utility plan and clearly show chlorine injection point(s) and bacteriological sample location(s). Show all deviations from said permit.

**3. Pressure Test**

A copy of a satisfactory hydrostatic pressure test of the new water lines performed in accordance with AWWA C600 Standards. Pursuant to AWWA Standards, pressure test(s) must precede bacteriological/chlorine sample(s). Report must include: test date, location of test traceable to record drawing, allowed leakage calculations, and actual leakage (pressure loss).

**4. Bacteriological Report**

Copies of satisfactory bacteriological analyses (a.k.a. Main Clearance), of water taken within sixty (60) days of completion of construction, and prior to submittal, from locations within the distribution system or water main extension to be cleared, in accordance with Rules [62-555.315\(6\)](#), [62-555.340](#), and [62-555.330](#), F.A.C. and American Water Works Association (AWWA) Standard C 651-92, as follows:

- Connection to an existing system, or between the new water line and existing water line,
- The end points of the proposed addition,
- Any water lines branching off a main extension, and
- A minimum of every 1,200 feet on straight runs of pipe

Each location shall be sampled on two consecutive days at least six hours apart, with **sample points and chlorine residual readings clearly indicated on the lab sheet**, i.e., sample locations must be traceable back to record drawings. PURSUANT TO AWWA STANDARD C600, CHLORINE RESIDUAL MUST BE RECORDED ON THE LAB SHEET FOR EACH WATER SAMPLE AT THE TIME OF BACTERIOLOGICAL SAMPLING, OR THE ANALYSIS WILL NOT BE ACCEPTABLE FOR USE IN CLEARANCE OF THE SYSTEM. Note: Determine whether the water system disinfects with free chlorine or chloramines. If the water system disinfects with free chlorine, free chlorine concentration must be within 0.2 to 4.0 mg/L. If the water system disinfects with chloramines, total chlorine must be within 0.6 to 4.0 mg/L. If any sample contains more than 4.0 mg/L, or below the required minimum concentration, the sample shall be considered invalid. A sample will also be considered invalid if it shows the presence of total coliform and the main must be re-disinfected until and re-sampled until two consecutive samples at each sampling location show the absence of coliform.

**SECTION 02775**

**CONCRETE SIDEWALK**

**02775-1 Description.**

Construct concrete sidewalks.

**02775-2 Materials.**

Meet the requirements specified in FDOT Standard Specifications 520-2.

**02775-3 Forms.**

Provide forms as specified in FDOT Standard Specifications 520-3.

**02775-4 Foundation.**

Compact fill areas, including cut areas under the sidewalk that have been excavated more than 6 inches below the bottom of sidewalk, to a minimum of 95% of AASHTO T 99 density. The area to be compacted is defined as that area directly under the sidewalk and 1 foot beyond each side of the sidewalk when right-of-way allows.

**02775-5 Joints.**

**02775-5.1 Expansion Joints:** Form 1/2 inch expansion joints between the sidewalk and the curb or driveway or at fixed objects and sidewalk intersections with a preformed joint filler meeting the requirements specified in 932-1.1.

**02775-5.2 Contraction Joints:**

**02775-5.2.1 Types:** The Contractor may use open type or sawed contraction joints.

**02775-5.2.2 Open-Type Joints:** Form open type contraction joints by staking a metal bulkhead in place and depositing the concrete on both sides. After the concrete has set sufficiently to preserve the width and shape of the joint, remove the bulkhead. After finishing the sidewalk over the joint, edge the slot with a tool having a 1/2 inch radius.

**02775-5.2.3 Sawed Joints:** If electing to saw the contraction joints, cut a slot approximately 3/16 inch wide and not less than 1 1/2 inches deep with a concrete saw after the concrete has set, and within the following periods of time:

Joints at not more than 30 feet intervals . . . within 12 hours after finishing.

Remaining joints ..... within 96 hours after finishing.

**02775-6 Placing Concrete.**

Place the concrete as specified in FDOT Standard Specifications 520-5.

**02775-7 Finishing.**

**02775-7.1 Screeding:** Strike-off the concrete by means of a wood or metal screed, used perpendicular to the forms, to obtain the required grade and remove surplus water and laitance.

**02775-7.2 Surface Requirements:** Provide the concrete with a broom finish. Ensure that the surface variations are not more than 1/4 inch under a 10 foot straightedge, or more than 1/8 inch on a 5 foot transverse section. Finish the edge of the sidewalk with an edging tool having a radius of 1/2 inch.

Apply a tine finish by an approved hand method to curb cut ramps in lieu of a broom finish.

Ensure that the tine finish consists of transverse grooves which are 0.03 to 0.12 inch in width and 0.10 to 0.15 inch in depth, spaced at approximately 1/2 inch center to center.

**02775-8 Curing.**

Cure the concrete as specified in FDOT Standard Specifications 520-8.

**02775-9 Method of Measurement.**

The quantity to be paid for will be plan quantity, in square yards, completed and accepted.

**02775-10 Basis of Payment.**

Price and payment will be full compensation for all work specified in this Section. Excavation will be paid for under the items for the grading work on the project.

Payment will be made under:

Item No. 02775-1	6" Thick Concrete Sidewalk	SY
------------------	----------------------------	----

**SECTION 02775**

**CONCRETE SIDEWALK**

**02775-1 Description.**

Construct concrete sidewalks.

**02775-2 Materials.**

Meet the requirements specified in FDOT Standard Specifications 520-2.

**02775-3 Forms.**

Provide forms as specified in FDOT Standard Specifications 520-3.

**02775-4 Foundation.**

Compact fill areas, including cut areas under the sidewalk that have been excavated more than 6 inches below the bottom of sidewalk, to a minimum of 95% of AASHTO T 99 density. The area to be compacted is defined as that area directly under the sidewalk and 1 foot beyond each side of the sidewalk when right-of-way allows.

**02775-5 Joints.**

**02775-5.1 Expansion Joints:** Form 1/2 inch expansion joints between the sidewalk and the curb or driveway or at fixed objects and sidewalk intersections with a preformed joint filler meeting the requirements specified in 932-1.1.

**02775-5.2 Contraction Joints:**

**02775-5.2.1 Types:** The Contractor may use open type or sawed contraction joints.

**02775-5.2.2 Open-Type Joints:** Form open type contraction joints by staking a metal bulkhead in place and depositing the concrete on both sides. After the concrete has set sufficiently to preserve the width and shape of the joint, remove the bulkhead. After finishing the sidewalk over the joint, edge the slot with a tool having a 1/2 inch radius.

**02775-5.2.3 Sawed Joints:** If electing to saw the contraction joints, cut a slot approximately 3/16 inch wide and not less than 1 1/2 inches deep with a concrete saw after the concrete has set, and within the following periods of time:

Joints at not more than 30 feet intervals . . . within 12 hours after finishing.

Remaining joints ..... within 96 hours after finishing.

**02775-6 Placing Concrete.**

Place the concrete as specified in FDOT Standard Specifications 520-5.

**02775-7 Finishing.**

**02775-7.1 Screeding:** Strike-off the concrete by means of a wood or metal screed, used perpendicular to the forms, to obtain the required grade and remove surplus water and laitance.

**02775-7.2 Surface Requirements:** Provide the concrete with a broom finish. Ensure that the surface variations are not more than 1/4 inch under a 10 foot straightedge, or more than 1/8 inch on a 5 foot transverse section. Finish the edge of the sidewalk with an edging tool having a radius of 1/2 inch.

Apply a tine finish by an approved hand method to curb cut ramps in lieu of a broom finish.

Ensure that the tine finish consists of transverse grooves which are 0.03 to 0.12 inch in width and 0.10 to 0.15 inch in depth, spaced at approximately 1/2 inch center to center.

**02775-8 Curing.**

Cure the concrete as specified in FDOT Standard Specifications 520-8.

**02775-9 Method of Measurement.**

The quantity to be paid for will be plan quantity, in square yards, completed and accepted.

**02775-10 Basis of Payment.**

Price and payment will be full compensation for all work specified in this Section. Excavation will be paid for under the items for the grading work on the project.

Payment will be made under:

Item No. 02775-1	6" Thick Concrete Sidewalk	SY
------------------	----------------------------	----

## **SECTION 02780 - INTERLOCKING CONCRETE PAVERS**

### **PART 1 - GENERAL**

- 1.01 SCOPE: Work in this Section shall include all labor, material, equipment, tools, etc., and services necessary to install interlocking concrete pavers and related accessory items as required by the details shown on the Drawings.
- 1.02 TESTS: Testing shall be as required herein.
- 1.03 RELATED WORK SPECIFIED ELSEWHERE :
- A. Earthwork: Refer to Section 02200.
- 1.04 HANDLING: Broken or chipped pavers will not be accepted and shall be disposed of off the Project Site at the Contractor's expense.
- 1.05 PAYMENT: Payment for pavers shall be by the unit price per square foot including the sand leveling course and fabric liner where applicable or as shown in the Proposal Form.

### **PART 2 - PRODUCTS**

- 2.01 MATERIALS:
- A. Manufacturer: Interlocking concrete pavers shall be as manufactured by:
1. Pavestone Co., Grapevine, Texas, (817) 481-5802; or,
  2. Interlock Pavers, Inc., Southlake, Texas, (817) 481-6577; or,
  3. Approved equal.
- B. Shape: Paver shape shall be "uni-stone" or "multiweave."
- C. Thickness: Pavers shall be:
1. Two and three-eighths (2-3/8") (6cm) inches thick for sidewalk paving.
  2. Three and one-eighths (3-1/8") (8cm) inches thick for street paving.
- D. Color: Color to be selected and approved by the Engineer.
- E. Material Requirements:
1. Cement: All units shall contain portland cement and shall conform to ASTM C 150.
  2. Aggregates: Aggregates for each unit shall conform to ASTM C 33, normal weight concrete aggregate, gradation per manufacturer's directions.
  3. Coloring, air-entrainment admixtures, water reducing agents, etc., shall comply with the applicable ASTM designation, where applicable.

4. **Strength:** The average compressive strength of all units shall be 8,000 psi with no individual unit strength less than 7,200 psi, as tested in accordance with ASTM C 140.
5. **Absorption:** The average absorption shall not be greater than five (5%) percent with no individual unit greater than seven (7%) percent.
6. **Defects:** All units shall be free of defects, cracks, chips, etc., or will be rejected by the Engineer. All units rejected shall be removed from the site.
7. **Testing:** All units will be subject to testing by an independent laboratory selected by the Owner and paid for by the Contractor. All tests shall be in accordance with ASTM C 140. The Engineer may inspect and sample units ready for delivery at the place of manufacture.
8. **Additional Pavers:** The Contractor shall supply the Owner one pallet (360 pavers) of extra pavers of the color selected, for the Owner's future use. These extra pavers shall be from the same dye lot as the approved paver. The extra pavers shall be delivered to the Owner at a location as directed by the Owner.
9. **Sand Bedding Course:** The sand used for bedding or laying shall be a graded, clean washed sharp sand with one hundred (100%) percent passing a three-eighths (3/8") inch sieve and a maximum of three (3%) percent passing a No.200 sieve, commonly known as manufactured concrete sand. MASON SAND SHALL NOT BE USED.
10. **Fabric Underliner:** The fabric underliner or support membrane fabric where required on the Drawings shall be a permeable non-woven filter fabric of one hundred (100%) percent polypropylene continuous filament and shall be "TYPAR" Style 3601 by DuPont or approved equal.
11. **Flexible Base or Concrete Base:** All flexible base and/or concrete base for the details shown on the Drawings shall conform to the specific details and shall be as described in the applicable sections of these Specifications.

### **PART 3 - EXECUTION**

- 3.01 The Contractor, for the installation of the interlocking pavers, shall be experienced in paver installation.
  - 3.02 **MANUFACTURER'S REPRESENTATIVE:** A representative of the interlocking concrete paver manufacturer shall be present at various intervals of paver installation and preparation, and shall approve the methods of the various steps of the installation of the pavers. The manufacturer's representative shall approve the subgrade, flexible base, concrete base, fabric liner, sand bedding installation and installation of pavers. All costs related to this item shall be paid for by the Contractor.
- 2.01 **PREPARATION OF PAVER INSTALLATION:**

- A. Base: The specified base, either flexible base for pedestrian paver areas or concrete base for street paver areas, shall be prepared as indicated by the details on the Drawings.
- B. Fabric Underliner: Fabric underliner or support membrane shall be used over flexible base only and is not required for concrete base.
1. The flexible base shall be approved by the manufacturer's representative and the Engineer prior to the installation of the support membrane. The subgrade shall be compacted per the Specifications at the correct grade, and free of sticks, loose clods and other objectionable materials.
  2. The support membrane shall be laid smoothly over the flexible base with no wrinkles, folds, humps or gaps. The joints shall be lapped a minimum of twelve (12") inches.
  3. Lap the edge of the support membrane at least two (2") inches up the side of all concrete edges from the subgrade elevation of the flexible base.
- C. Sand: The uncompacted sand laying course shall be spread evenly over the fabric underliner or concrete base and then screeded to a level that will produce a one (1") inch minimum thickness when the pavers have been placed and vibrated. After completion of sand leveling, the leveling bed shall be protected from any damage or disruption of any kind.
- D. Installation of Pavers: The interlocking concrete pavers shall be laid in a herringbone pattern as indicated on the Drawings and shall be laid in such a manner that the specified pattern shall be maintained throughout and joints between pavers shall not exceed one-eighth (1/8") inch. String lines shall be used to keep all pattern lines straight and true. Gaps which occur at the edge of the paver area shall be filled with a standard edge paver or with pavers cut to fit. Cutting shall be accomplished to produce a neat, clean edge where pavers abut concrete paving, dividers or curbs.

A masonry saw shall be used for cutting all pavers unless otherwise approved by the Engineer. No cuts, unless approved by the Engineer, shall be made where less than one-third (1/3) of the original paver dimension is left.

Pavers shall be vibrated into the sand bedding or laying course using a vibrator capable of 3,000 to 5,000 psi compaction force with the surface of the pavers clean and the joints open. The vibrating process shall be repeated as necessary to bring pavers to their final level and to compact the underlying bedding course and force sand up into the joints.

Following vibration, clean sharp sand, with particle sizes zero (0") to one-eighth (1/8") inch with thirty (30%) percent retained on a one-eighth (1/8") inch sieve,

shall be applied over the paver surface, allowed to dry, and vibrated into the joints with additional vibrator passes and brushing necessary to completely fill the joints.

All surplus material shall then be swept clean from the surface of the pavers and all surplus construction material shall be removed from the Site. Care should be exercised so that other construction activities within the area shall not damage the completed paver installation. Any pavers damaged shall be removed and replaced by the Contractor at his expense.

- E. The final surface of the finish paver areas shall be uniform and true. Pavers which are depressed or raised, to such a degree that in the opinion of the Engineer will cause a hazard, will be subject to removal and replacement prior to final acceptance.
- F. Guarantee: All interlocking concrete paver materials and workmanship shall be guaranteed for a period of one year. During the one year guarantee period any pavers or other items which show to be defective shall be replaced with new material at no expense to the Owner.
- G. Basis of Payment: Price and payment will be full compensation for the work specified under this section. Payment will be made under:

Item No. 02780-1      Paver Replacement Along Meridian Avenue      SY

END OF SECTION 02780



# CITY OF TAMPA

## Channel District

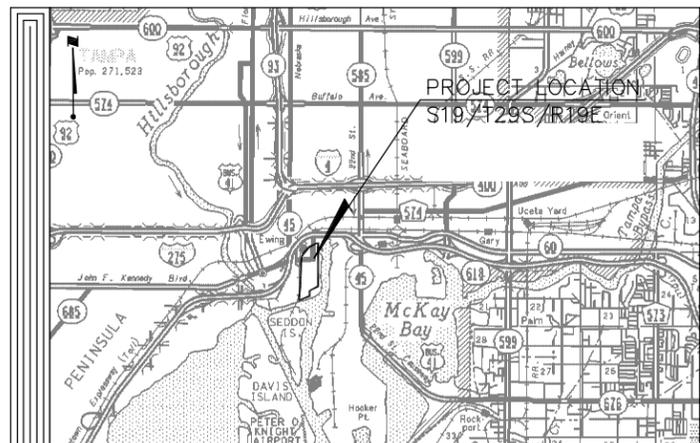
Hillsborough County  
E. Madison Street Improvements

### Construction Plans

November 2013

CONTRACT No. 14-C-00011

TF PROJECT No. 1000327



VICINITY MAP  
NTS

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	SUB-BASIN DRAINAGE MAP SHEET
3	GENERAL NOTES
4	TYPICAL CROSS-SECTIONS
5-7	DEMOLITION PLAN SHEETS
8-10	PLAN AND PROFILE SHEETS
11-20	CROSS-SECTIONS
21-23	EROSION CONTROL SHEETS
24-26	UTILITY ADJUSTMENT SHEETS
27-28	WATER MAIN RELOCATION SHEETS
29-30	WATER MAIN DETAIL SHEETS
31-32	WASTEWATER DETAIL SHEETS
33-35	SIGNING AND STRIPING SHEETS
36	HARDSCAPE PLAN
37	LANDSCAPE PLAN
38	IRRIGATION PLAN
39	PAVING DETAILS
40	SITE FURNISHINGS
41	LANDSCAPE NOTES / SCHEDULE
42	LANDSCAPE DETAILS
43	IRRIGATION NOTES
44	IRRIGATION DETAILS

REVISIONS

NO.	DATE	DESCRIPTION	BY
1	140110	RECONFIGURATION OF TECO BURIED ELEC LINES	RND
2	140110	ADDITION OF STREET LIGHT CONDUITS	RND
3	140110	REVISED CALL-OUTS FOR 8" WATER LINE	RND

Call Sunshine One-Call for FREE 800.432.4770 or Visit [www.callsunshine.com](http://www.callsunshine.com)



CALL SUNSHINE @ 1-800-432-4770  
FL. STATUE 553.851 (1979) REQUIRES A  
MIN. OF 2 DAYS AND MAX. OF 5 DAYS  
NOTICE BEFORE YOU EXCAVATE.

DESIGN STANDARDS  
(F.D.O.T. BOOKLET, DATED JAN. 2013)

THESE PLANS HAVE BEEN PREPARED IN ACCORDANCE WITH THE FLORIDA DEPT. OF TRANSPORTATION DESIGN STANDARDS (DATED JAN. 2013), THE FLORIDA DEPT. OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (DATED 2013) AND SUPPLEMENTS THERETO, AND THE LATEST CITY OF TAMPA TECHNICAL STANDARDS FOR TRANSPORTATION CONSTRUCTION, AND THE LATEST CITY OF TAMPA TECHNICAL STANDARDS FOR UTILITIES.

ECONOMIC AND URBAN  
DEVELOPMENT DEPARTMENT  
CITY OF TAMPA, FLORIDA



2205 North 20th Street, Tampa, FL 33605  
800.643.4336 • 813.223.9500 • 813.223.0009 • [www.Stantec.com](http://www.Stantec.com)  
Stantec Consulting Services, Inc. • CA #27013 • FL Lic. # LC-26000314

APPROVED BY:

CERTIFICATION

HAMIDREZA SAHEBKAR, P.E.  
FLORIDA LICENSE NO. 39991

**LEGEND**

—SS—	EX. SANITARY SEWER LINE
—ST—	EX. STORM SEWER LINE
—W—	EX. WATER MAIN
—BE—	EX. BURIED ELECTRIC
—FM—	EX. FORCE MAIN
—G—	EX. GAS MAIN
—BHN—	EX. BRIGHTHOUSE NETWORK LINE
—	EX. OVERHEAD ELECTRIC
—OH-TRANS—	EX. OVERHEAD TRANS.
—CATV—	EX. CABLE TV LINE
—TEL—	EX. TELECOMMUNICATIONS
—FOC—	EX. FIBER OPTIC CABLE
—(P)OH-TRANS—	PROP. OVERHEAD TRANS.
—(P)FM—	PROP. FORCE MAIN
—(P)SS—	PROP. SANITARY SEWER LINE
—(P)ST—	PROP. STORM SEWER LINE
—(P)WM—	PROP. WATER MAIN
—(P)BE—	PROP. BURIED ELECTRIC
—P WM—	ALT. WATER MAIN LOCATION
—(R)SS—	SANITARY TO BE REMOVED
—(R)ST—	STORM TO BE REMOVED
—(R)WM—	WATER MAIN TO BE REMOVED
—(R)BE—	BURIED ELECTRIC TO BE REMOVED
— — —	RIGHT-OF-WAY LINE
=====	LOCATED BUILDING LINES
=====	APPROXIMATE EDGE OF BUILDING AS SCALED FROM AERIAL PHOTOGRAPH

**LEGEND OF ABBREVIATIONS**

T.B.M.	TEMPORARY BENCH MARK
(P)	PLAT MEASUREMENT
(D)	DEED MEASUREMENT
(M)	FIELD MEASUREMENT
(C)	CALCULATED
CONC	CONCRETE
INV.	INVERT
D.I.P.	DUCTILE IRON PIPE
P.V.C.	POLYVINYL CHLORIDE PIPE
R.C.P.	REINFORCED CONCRETE PIPE
C.M.P.	CORRUGATED METAL PIPE
V.C.P.	VITRIFIED CLAY PIPE
FDOT	FLORIDA DEPARTMENT OF TRANSPORTATION
C.R.	COUNTY ROAD
S.R.	STATE ROAD
O.R.	OFFICIAL RECORD
P.B.	PLAT BOOK
PG.	PAGE
MES	MITERED END SECTION
(T/W)	TOP WALL
ELEV.	ELEVATION
R/W	RIGHT-OF-WAY
(R)	RADIAL LINE
C.L.F.	CHAIN LINK FENCE
O.D.	OUTSIDE DIAMETER
O.H.L.	OVER HEAD LINE

**LEGEND OF SYMBOLS**

	DIRECTION OF FLOW
	SANITARY SEWER MANHOLE
	STORM SEWER MANHOLE
	CURB INLET
	CURB INLET
	CATCH BASIN
	MITERED END SECTION
	REDUCER
	ELECTRICAL HAND HOLE
	SITE BENCH MARK
	FIRE HYDRANT
	ELECTRIC MANHOLE
	TELECOMMUNICATIONS BOX
	LIGHT POLE
	WATER VALVE
	CONFLICT MANHOLE
	EX. CONCRETE UTILITY POLE
	EX. WOODEN UTILITY POLE
	EX. MAST ARM/STRAIN POLE
	EX. LIGHT POLE
	EX. SIGN
	CLEANOUT
	EX. STORM MANHOLE
	EX. WATER METER
	GUY ANCHOR
	TELEPHONE MANHOLE
	TELEPHONE UTILITY BOX
	CABLE TV RISER
	SPRINKLER HEAD
	ELECTRIC BOX
	GROUND/FLOOD LIGHT
	IRRIGATION CONTROL BOX
	PEDESTRIAN CROSSING SIGNAL POLE

**TREE LEGEND**

	OAK TREE
	UNKNOWN TREE TYPE

**SPOT ELEVATION LEGEND**

x 6.1	GROUND SPOT ELEVATION
x 6.13	PAVEMENT SPOT ELEVATION
25.60	TOP OF CURB ELEVATION
25.10	FLOWLINE OF CURB ELEVATION
x 25.12	EDGE OF PAVEMENT ELEVATION
25.60	TOP OF CURB ELEVATION
x 25.12	EDGE OF PAVEMENT ELEVATION
	PROPOSED ELEVATION

**GENERAL NOTES**

- CITY OF TAMPA STANDARD DRAWINGS ARE AVAILABLE AT THE CITY HALL ANNEX, 306 E. JACKSON STREET, 5TH FLOOR, NORTH WING.
- ALL ELEVATIONS REFER TO NAVD1988 DATUM AS REQUIRED BY CITY OF TAMPA.
- LOCATIONS, ELEVATIONS, AND DIMENSIONS OF THE EXISTING UTILITIES, STRUCTURES, AND OTHER FEATURES ARE SHOWN ACCORDING TO THE BEST INFORMATION AVAILABLE AT THE TIME OF THE PREPARATION OF THESE PLANS BUT DO NOT PURPORT TO BE ABSOLUTELY CORRECT. THE CONTRACTOR SHALL VERIFY THE LOCATIONS, ELEVATIONS, AND DIMENSIONS PRIOR TO CONSTRUCTION OR ORDERING MATERIALS/STRUCTURES.
- THE CONTRACTOR SHALL CALL SUNSHINE (1-800-432-4770) AT LEAST 48 HOURS PRIOR TO ANY CONSTRUCTION ACTIVITY.
  - CONTACT TAMPA HILLSBOROUGH EXPRESSWAY AUTHORITY, 813-272-6740 X117, BOB REARDON, 48 HOURS IN ADVANCE OF RELOCATING OVERHEAD POWER LINES ALONG MERIDIAN AVENUE.
- PRIOR TO ANY CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE FOLLOWING:
 

TAMPA HILLS EXPR AUTH.	813-272-6740	BOB REARDON
TAMPA ELECTRIC CO.	813-275-3321	HOWARD MARSH
TECO PEOPLES GAS	813-275-3743	TED FELECY
COT WASTEWATER DEPT.	813-274-8047	FRANK JAMES/ RICHARD RIVERA
TAMPA WATER DEPT.	813-274-7096	JANICE DAVIS
VERIZON	813-627-8343	FRED VALDES
MCI	972-729-6016	JOHN BACHELDER
LEVEL 3 COMM.	720-888-2061	RICK MILLER
BRIGHTHOUSE	954-520-5169	FRANK FARRIS
- STATIONS AND OFFSETS REFER TO THE SURVEY BASELINE OR TO THE CONSTRUCTION CENTERLINE AS NOTED.
- STATIONS AND OFFSETS FOR DB INLETS AND MANHOLES REFER TO THE CENTERPOINT OF THE STEEL FRAME. CURB INLETS SHALL BE POSITIONED LONGITUDINALLY ACCORDING TO STATIONING GIVEN AND Laterally ACCORDING TO THE APPROPRIATE STANDARD, UNLESS NOTED OTHERWISE. CURB INLET TOP AND THROAT ELEVATIONS SHALL BE BASED ON THE EDGE-OF-PAVEMENT ELEVATION (GIVEN OR CALCULATED) AND THE APPROPRIATE STANDARD. INLET THROAT ELEVATIONS TO BE DETERMINED BY THE CONTRACTOR FROM THE EDGE-OF-PAVEMENT ELEVATION.
- MANHOLE TOP ELEVATIONS TO BE DETERMINED BY THE CONTRACTOR AS PER PROPOSED STREET GRADES PROVIDED. IF DISTANCE BETWEEN TOP SLAB AND GRADE IS LESS THAN 7", THE CONTRACTOR SHALL PROVIDE TRAFFIC BEARING INVERTED MANHOLE FRAME AND COVER AT NO ADDITIONAL COST TO THE CITY.
- ALL CURB RADII, P.I., P.C., AND P.T. REFER TO THE EDGE OF PAVEMENT UNLESS NOTED OTHERWISE.
- NO TREES NOR TREE ROOTS SHALL BE REMOVED WITHOUT THE PRIOR APPROVAL OF THE ENGINEER.
- ALL DISTURBED AREAS SHALL BE SODED AS DIRECTED BY THE ENGINEER.
- STREET SIGNS, STREET MARKERS, AND R-O-W MARKERS SHALL BE REMOVED AND RELOCATED AS DIRECTED BY THE ENGINEER. NO SEPARATE PAYMENT SHALL BE MADE FOR THESE ACTIVITIES. ANY LOST OR DAMAGED SIGNS OR MARKERS SHALL BE REPLACED BY THE CONTRACTOR AT NO COST TO THE CITY.
- THE CONTRACTOR SHALL REPLACE EXISTING DRIVEWAYS FROM THE EDGE OF PAVEMENT TO THE R-O-W LINE, WHEREVER AFFECTED BY CONSTRUCTION. MATERIALS SIMILAR TO THE EXISTING SHALL BE USED UNLESS NOTED OTHERWISE.
- THE CONTRACTOR IS RESPONSIBLE FOR COMPLIANCE WITH ALL APPLICABLE ENVIRONMENTAL RULES AND REGULATIONS OF THE CITY, COUNTY, STATE, US ENVIRONMENTAL PROTECTION AGENCY (EPA), AND ANY OTHER JURISDICTIONAL AGENCIES, AND ALL CONDITIONS SET FORTH IN ENVIRONMENTAL PERMITS.
- THE CONTRACTOR SHALL BECOME FAMILIAR WITH THE PERMIT & INSPECTION REQUIREMENTS SPECIFIED BY THE VARIOUS GOVERNMENTAL AGENCIES AND THE EOR'S SPECIFICATIONS. THE CONTRACTOR SHALL REVIEW ALL ACQUIRED PERMITS PRIOR TO CONSTRUCTION, AND SCHEDULE ANY NECESSARY INSPECTIONS ACCORDING TO AGENCY INSTRUCTIONS.
- REMOVAL OF EXISTING PAVEMENT AND BASE MATERIAL, SIDEWALK, CURB, POLES, UNDERGROUND PIPES, STRUCTURES, FOUNDATIONS, AND OTHER MISCELLANEOUS ITEMS SHALL BE INCLUDED IN THE LUMP SUM PRICE FOR CLEARING AND GRUBBING, AND NO SEPARATE PAYMENT SHALL BE MADE UNLESS SEPARATE BID ITEM IS PROVIDED.
  - ALL BRICK PAVERS ALONG THE EAST SIDE OF MERIDIAN AVENUE WILL BE PROTECTED. ANY DAMAGE, LOSS OR REMOVAL WILL BE REPLACED WITH LIKE KIND.
  - BRICK PAVERS THAT NEED TO BE REMOVED FOR ANY CONSTRUCTION ACTIVITY ARE TO FIRST BE MAPPED, MARKED AND STORED, THEN RETURNED TO THEIR ORIGINAL POSITION, PER THE ORIGINAL DESIGN, AFTER THE PLANNED CONSTRUCTION ACTIVITY HAS CONCLUDED.
- THE CONTRACTOR SHALL USE ALL SURPLUS FILL APPROVED BY THE ENGINEER AS SUITABLE FROM EXCAVATION PRIOR TO SUPPLYING FILL FROM OTHER SOURCES.
- THE CONTRACTOR SHALL ENDEAVOR TO PROTECT PRIVATE PROPERTY. ANY DAMAGE CAUSED BY THE CONTRACTOR IN THE PERFORMANCE OF HIS WORK SHALL BE CORRECTED TO THE SATISFACTION OF THE ENGINEER AT THE CONTRACTOR'S EXPENSE. PAYMENT SHALL NOT BE MADE FOR THIS WORK.

- DEMOLITION WORK SHALL NOT BE LIMITED TO THESE DOCUMENTS. CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS AND EXTENT OF REMOVAL OF ITEMS SHOWN PRIOR TO USING THIS INFORMATION FOR BID PURPOSES.
- EXISTING PAVEMENT SHALL BE SAWCUT AT THE LIMITS OF PAVEMENT RECONSTRUCTION.
- DISPOSAL OF CONSTRUCTION AND DEMOLITION DEBRIS MAY ONLY OCCUR AT OFFSITE DISPOSAL FACILITIES APPROVED BY THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY APPLICABLE PERMITS AT NO ADDITIONAL COST TO THE CITY.
- ALL REINFORCED CONCRETE PIPE (ROUND OR ELLIPTICAL) SHALL BE INSTALLED WITH A NON-WOVEN FILTER FABRIC JACKET AS PER THE DETAIL ON THE CITY OF TAMPA STANDARD DRAWING NUMBER D-13.
- REFER TO PROJECT SPECIFICATIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS. COMPLETE CONSTRUCTION DOCUMENTS CONSIST OF PLANS PLUS COMPLETE SPECIFICATIONS (GENERAL PROVISIONS, TECHNICAL SPECIFICATIONS, SPECIFIC PROVISIONS AND ANY ADDENDA), AND CITY AND FDOT STANDARDS, AS APPLICABLE.
- ALL TRAFFIC STRIPES AND MARKINGS ARE TO BE LEAD-FREE, NON-SOLVENT BASED THERMOPLASTIC AND PLACED PER INDEX 17346. IF REMOVAL OF EXISTING MARKINGS IS REQUIRED, IT SHALL BE DONE BY HYDROBLASTING. RPM'S SHALL BE PLACED PER INDEX 17352. THE CONTRACTOR MUST PROVIDE THE FLORIDA DEPARTMENT OF TRANSPORTATION WITH A MANUFACTURER CERTIFICATION OF THE LEAD-FREE THERMOPLASTIC STRIPES AND MARKINGS PRIOR TO THE STRIPING AND MARKING OPERATIONS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR AND OR COORDINATION OF MAINTENANCE OF ALL SERVICES (UTILITIES, ACCESS, EMERGENCY, ETC.) DURING CONSTRUCTION.
- CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE OF TRAFFIC AND ALL REQUIRED PERMITS. CONTRACTOR SHALL SUBMIT MAINTENANCE OF TRAFFIC PLANS IN CONFORMANCE WITH FDOT INDEX No. 600.
  - MAINTENANCE OF TRAFFIC ON MERIDIAN AVENUE IS RESTRICTED. THERE WILL BE NO LANE CLOSURES ON MERIDIAN AVENUE BETWEEN THE HOURS OF 5:00 am AND 9:00 am AND 3:00 pm THROUGH 7:00 pm, MONDAY THROUGH FRIDAY. IN ADDITION, DUE TO THE TAMPA BAY TIMES FORUM EVENT SCHEDULE, OTHER RESTRICTIONS MAY APPLY.
- UTILITY LOCATIONS ARE BASED ON BEST AVAILABLE INFORMATION AND SHALL BE FIELD VERIFIED. PROPOSED LOCATIONS ARE SUBJECT TO CHANGE. MAINTAIN ONE LANE OF TRAFFIC OPEN UNLESS PRIOR APPROVAL IS ISSUED BY THE CITY. LANE CLOSURES SHALL CONSIDER ACCESS TO ADJACENT PROPERTIES.
- RIGHT-OF-WAY LOCATIONS REPRESENT BEST AVAILABLE INFORMATION.
- SIDEWALK SHALL BE CONSTRUCTED PER FDOT INDEX 304 AND 310. DETECTABLE WARNING STRIPS, A.K.A. TRUNCATED DUMPS, FOR CITY OF TAMPA CONSTRUCTION AND MAINTENANCE SHALL BE FULL WIDTH DETECTABLE WARNING STRIPS AND BE CONSTRUCTED PER FDOT SPECIFICATION 527. THE WARNING STRIPS SHALL BE THERMOPLASTIC DETECTABLE AND SHALL BE BLACK IN COLOR.
- ALL WORK PERFORMED SHALL CONFORM TO:
  - FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (2013) (A.K.A. STANDARD SPECS)
  - FDOT DESIGN STANDARDS FOR DESIGN, CONSTRUCTION, MAINTENANCE AND OPERATIONS ON THE STATE HIGHWAY SYSTEM, JAN., 2013, (A.K.A. STANDARD INDEX). COMPLIANCE WITH ALL APPLICABLE INDICES IS REQUIRED.
  - FLORIDA DEPARTMENT OF TRANSPORTATION ROADWAY PLANS PREPARATION MANUAL, VOLUME 1, CHAPTERS 2 AND 25. (2011)
  - FLORIDA DEPARTMENT OF TRANSPORTATION FLEXIBLE PAVEMENT DESIGN MANUAL FOR NEW CONSTRUCTION AND PAVEMENT REHABILITATION, MARCH 2008.
  - ALL CONSTRUCTION AND/OR MAINTENANCE IN THE COT R/W SHALL CONFORM TO THE FEDERAL MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). THE FDOT ROADWAY AND TRAFFIC DESIGN STANDARDS, THE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND THE COT TECHNICAL STANDARDS FOR TRANSPORTATION, LATEST EDITION.
  - ALL TRAFFIC STRIPES AND MARKINGS ARE TO BE LEAD FREE, NON SOLVENT BASED THERMOPLASTIC. THE PERMITTEE SHALL FURNISH THE DEPARTMENT WITH THE MANUFACTURER'S CERTIFICATION THAT THE THERMOPLASTIC IS "LEAD FREE."
- EROSION CONTROL - THE CONTRACTOR IS ENCOURAGED TO USE APPROPRIATE BEST MANAGEMENT PRACTICES FOR EROSION & SEDIMENT CONTROLS AS DESCRIBED IN THE FLORIDA LAND DEVELOPMENT MANUAL: A GUIDE TO SOUND LAND AND WATER MANAGEMENT (DER, 1988).
- CONTRACTOR TO FIELD COORDINATE PHASING OF ALL DEMOLITION AND CONSTRUCTION TO LIMIT INTERRUPTION OF TRAFFIC FLOW AND DAILY OPERATIONS.
- IN AREAS WHERE ASPHALT IS SHOWN TO BE REMOVED, BASE MAY REMAIN IF AREA IS PROPOSED TO BE COVERED WITH CONCRETE (WALKS, PAVEMENT, ETC).

**SURVEY NOTES:**

- HORIZONTAL AND VERTICAL CONTROL IS BASED UPON A CONTROL SURVEY FOR THE CHANNEL DISTRICT CRA (COMMUNITY REDEVELOPMENT AREA) COMPLETED ON MARCH 9, 2009 BY STANTEC CONSULTING SERVICES, INC.
- COORDINATES SHOWN HEREIN ARE REFERENCED TO THE STATE OF FLORIDA PLANE COORDINATE SYSTEM - FLORIDA WEST - ZONE 0902 (NORTH AMERICAN DATUM OF 1983 - 1990 ADJUSTMENT) AND ARE BASED UPON GPS OBSERVATIONS ORIGINATING FROM AND ADJUSTED TO THE FOLLOWING GEODETIC CONTROL STATIONS:
 

NATIONAL GEODETIC SURVEY CONTROL STATION Q 18 BEING A BRASS DISK STAMPED "Q 18 1933" SET IN A CONCRETE MONUMENT (NAD83-1990 PUBLISHED VALUE BY NGS HELD)

NATIONAL GEODETIC SURVEY CONTROL STATION FLGPS 59 AZMK BEING A BRASS DISK STAMPED "FLGPS 59 AZ MK 1989" SET IN CONCRETE SIDEWALK OF BENEFICIAL DRIVE BRIDGE. (NAD83-1990 PUBLISHED VALUE BY NGS HELD)

NATIONAL GEODETIC SURVEY CONTROL STATION THOMPSON2 BEING A BRASS DISK STAMPED "THOMPSON 2 2000" SET IN A CONCRETE MONUMENT (NAD83-1990 PUBLISHED VALUE BY HILLSBOROUGH COUNTY SURVEYING AND MAPPING SECTION HELD [HILLS COUNTY PROJECT No.90-12-02])
- ELEVATIONS SHOWN HEREIN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 AND ARE BASED UPON THE FOLLOWING CITY OF TAMPA BENCHMARKS:
 

HV-02 0182 HAVING A PUBLISHED ELEVATION OF 10.730 FEET  
 HV-02 0213 HAVING A PUBLISHED ELEVATION OF 20.459 FEET  
 HV-02 0214 HAVING A PUBLISHED ELEVATION OF 15.756 FEET  
 HV-02 0215 HAVING A PUBLISHED ELEVATION OF 5.983 FEET

2205 North 20th Street, Tampa, FL 33605  
 800.643.4336 • 813.223.9500 • F 813.223.0009 • www.stantec.com  
 Stantec Consulting Services, Inc. • C&A# 27013 • FL Lic. # LC-26000314

Drawn: RND	Date: 11/22/2015
Designed: RND	Date: 11/22/2015
Checked: JDJ	Date: 11/22/2015
Reviewed: HS	Date: 11/22/2015
Approved: _____	Date: _____
Approved: _____	Date: _____

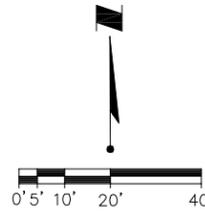
No: 140109	Date: _____	Revision: _____	By: RND
------------	-------------	-----------------	---------



CITY OF TAMPA  
 ECONOMIC AND URBAN  
 DEVELOPMENT DEPARTMENT

E. MADISON STREET IMPROVEMENTS  
 GENERAL NOTES (1 OF 1)

Field Book:	
Atlas Sheet:	
File No.:	
Job No. 215611523	Index No. 215611523-002
Scale: N/A	
SHEET 03	



**LEGEND**

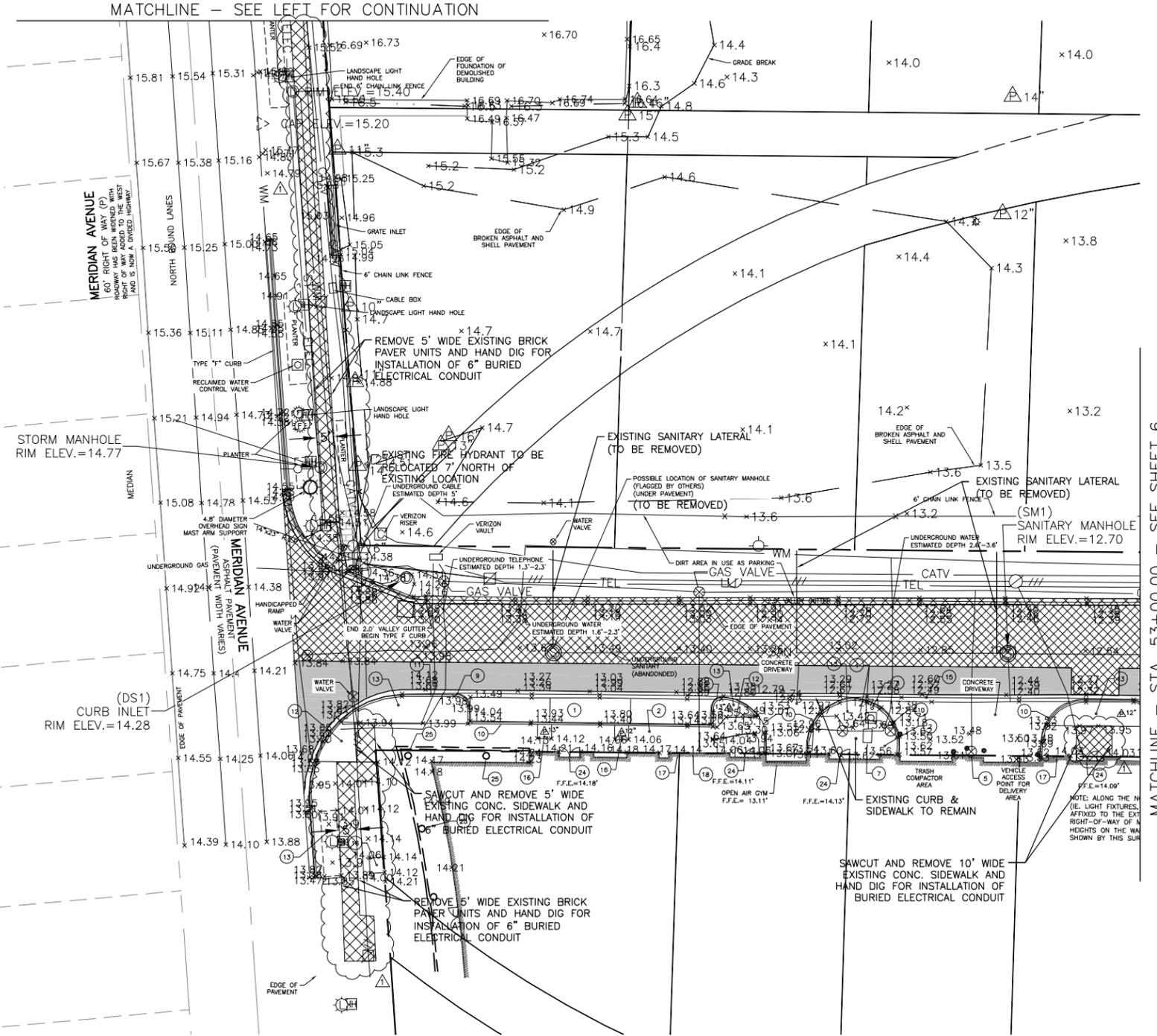
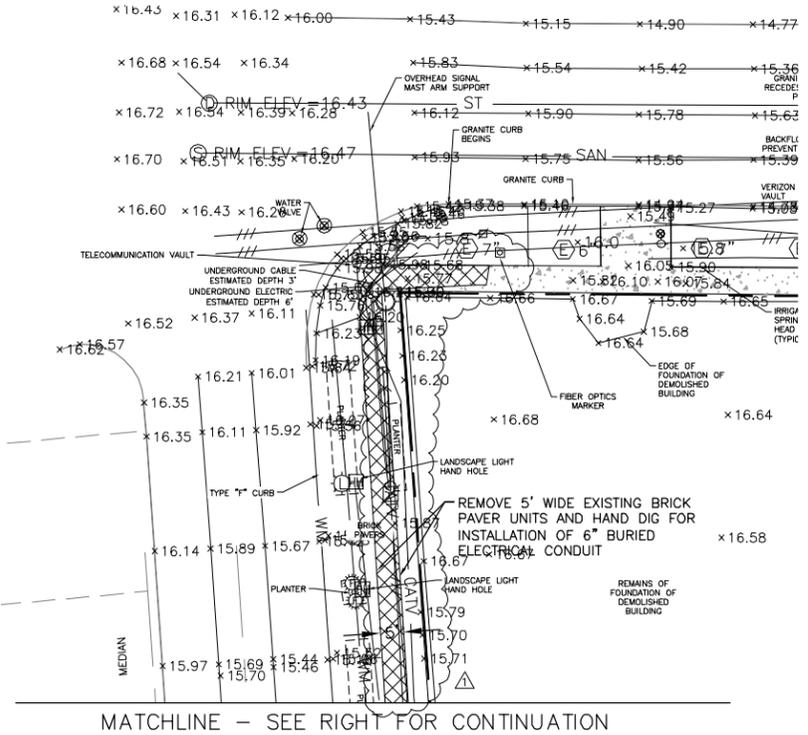
- EXISTING ASPHALT/CONCRETE TO BE REMOVED
- EXISTING PAVEMENT TO REMAIN
- EXISTING TREES TO BE REMOVED
- EXISTING BOLLARDS TO BE REMOVED

**NOTES**

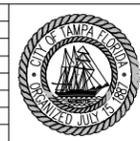
1. REMOVE EXISTING PARKING BUMPERS LOCATED ALONG NORTH SIDE OF STREET.
2. REFER TO UTILITY ADJUSTMENT PLANS, SHEETS 21-23, FOR DISPOSITION OF EXISTING UTILITIES.

**KEYED NOTES**

NOTE#	DESCRIPTION
1	ASPHALT PAVEMENT
2	CONCRETE
3	IRRIGATION CONTROL VALVE
4	BACK FLOW PREVENTER
5	GAS VALVE SURROUNDED BY 3 BOLLARDS
6	BOLLARD (TYPICAL)
7	2.5'x4' WATER VAULT
8	METAL HAND RAILS
9	CURB TRANSITION AT THIS POINT
10	0.6' CONCRETE CURB
11	TYPE "T" CURB
12	CONCRETE RAMP
13	PLANTER AREA
14	PET WASTE STATION
15	2' VALLEY GUTTER
16	TREE WELL
17	FIRE DEPARTMENT CONNECTION
18	GAS METER
19	ELECTRIC METER
20	PIPE FLANGE
21	4 VALVE TEST PUMP
22	2' TABLE (ATTACHED TO GROUND)
23	OVERHEAD CANOPY
24	DOOR EXTENDS INTO RIGHT-OF-WAY WHEN OPENED
25	2' DIAMETER COLUMN



Drawn: RND	Date: 11/22/2015		
Designed: RND	Date: 11/22/2015		
Checked: JDJ	Date: 11/22/2015		
Reviewed: HS	Date: 11/22/2015		
Approved:	Date:	140109	RECONFIGURATION OF TECO BURIED ELEC LINES
Approved:	Date:	No:	Date:



CITY OF TAMPA  
ECONOMIC AND URBAN  
DEVELOPMENT DEPARTMENT

E. MADISON STREET IMPROVEMENTS  
DEMOLITION PLAN (1 OF 3)

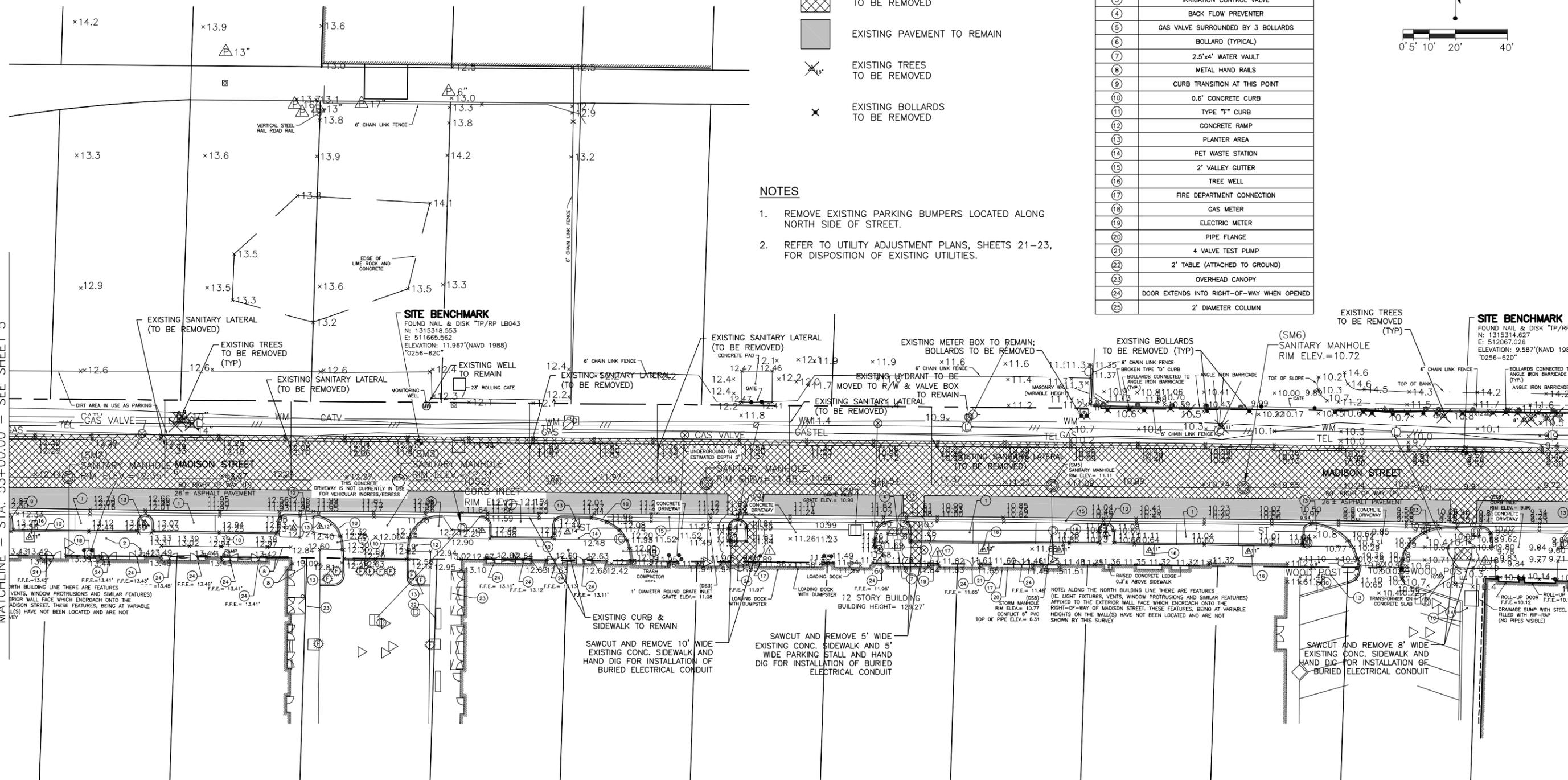
Field Book:	
Atlas Sheet:	
File No.:	Index No.
Job No. 215611523	215611523-021
Scale: N/A	
SHEET 05	

2225 North 20th Street, Tampa, FL 33605  
800.643.4336 • 813.223.9500 • F 813.223.0509 • www.stantec.com  
Stantec Consulting Services, Inc. • CA# 27013 • FL Lic. # LC-26000314

MATCHLINE - STA. 53+00.00 - SEE SHEET 6

MATCHLINE - STA. 53+00.00 - SEE SHEET 5

MATCHLINE - STA. 59+00.00 - SEE SHEET 7



### LEGEND

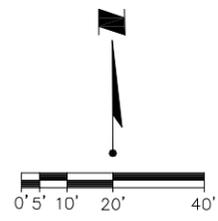
-  EXISTING ASPHALT/CONCRETE TO BE REMOVED
-  EXISTING PAVEMENT TO REMAIN
-  EXISTING TREES TO BE REMOVED
-  EXISTING BOLLARDS TO BE REMOVED

### NOTES

1. REMOVE EXISTING PARKING BUMPERS LOCATED ALONG NORTH SIDE OF STREET.
2. REFER TO UTILITY ADJUSTMENT PLANS, SHEETS 21-23, FOR DISPOSITION OF EXISTING UTILITIES.

### KEYED NOTES

NOTE#	DESCRIPTION
1	ASPHALT PAVEMENT
2	CONCRETE
3	IRRIGATION CONTROL VALVE
4	BACK FLOW PREVENTER
5	GAS VALVE SURROUNDED BY 3 BOLLARDS
6	BOLLARD (TYPICAL)
7	2.5'x4' WATER VAULT
8	METAL HAND RAILS
9	CURB TRANSITION AT THIS POINT
10	0.6' CONCRETE CURB
11	TYPE "F" CURB
12	CONCRETE RAMP
13	PLANTER AREA
14	PET WASTE STATION
15	2' VALLEY GUTTER
16	TREE WELL
17	FIRE DEPARTMENT CONNECTION
18	GAS METER
19	ELECTRIC METER
20	PIPE FLANGE
21	4 VALVE TEST PUMP
22	2' TABLE (ATTACHED TO GROUND)
23	OVERHEAD CANOPY
24	DOOR EXTENDS INTO RIGHT-OF-WAY WHEN OPENED
25	2' DIAMETER COLUMN



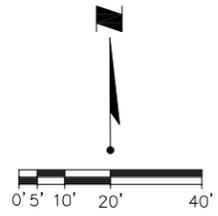
Drawn: RND	Date: 11/22/2015		
Designed: RND	Date: 11/22/2015		
Checked: JDJ	Date: 11/22/2015		
Reviewed: HS	Date: 11/22/2015		
Approved:	Date:	140109	RECONFIGURATION OF TECO BURIED ELEC LINES
Approved:	Date:	No:	Revision:



CITY OF TAMPA  
ECONOMIC AND URBAN  
DEVELOPMENT DEPARTMENT

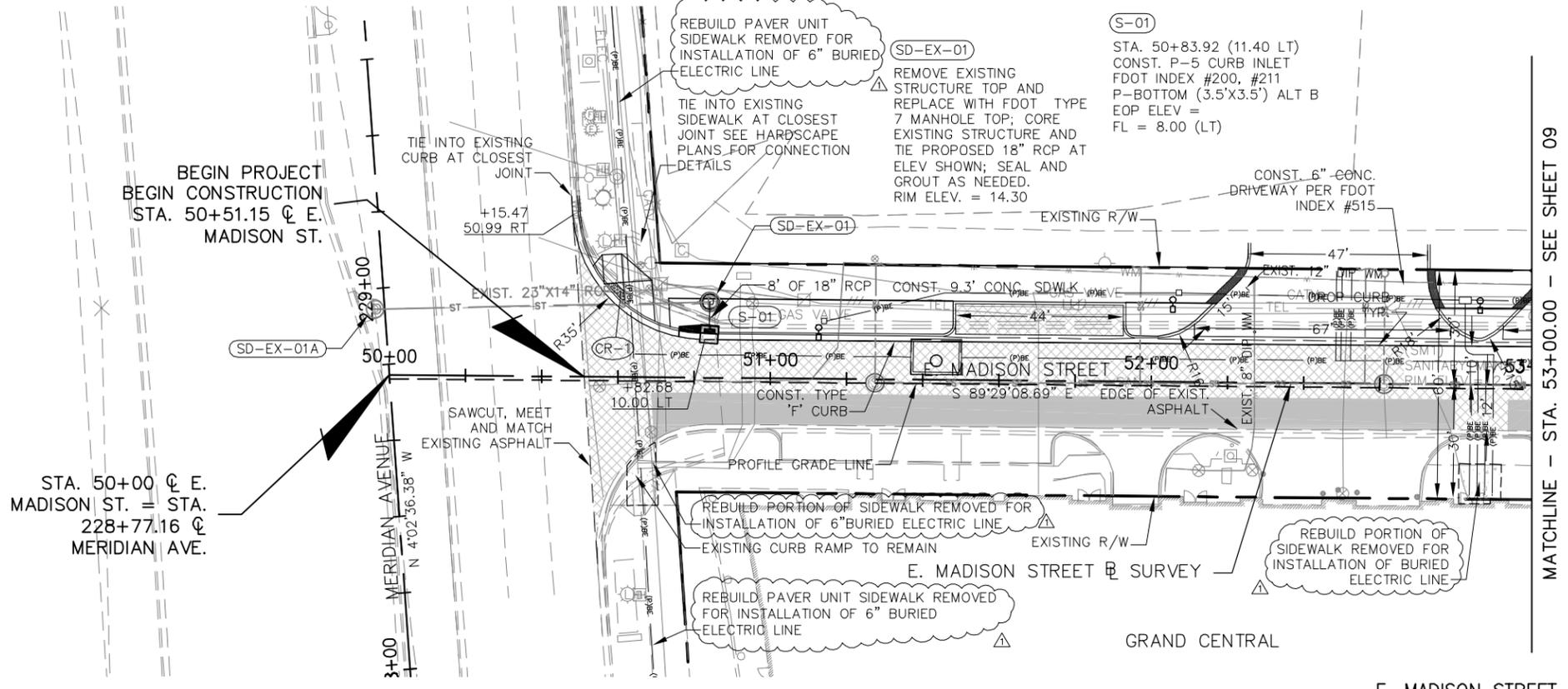
E. MADISON STREET IMPROVEMENTS  
DEMOLITION PLAN (2 OF 3)

Field Book:	
Atlas Sheet:	
File No.:	Index No.
Job No. 215611523	215611523-021
Scale: N/A	
SHEET 06	



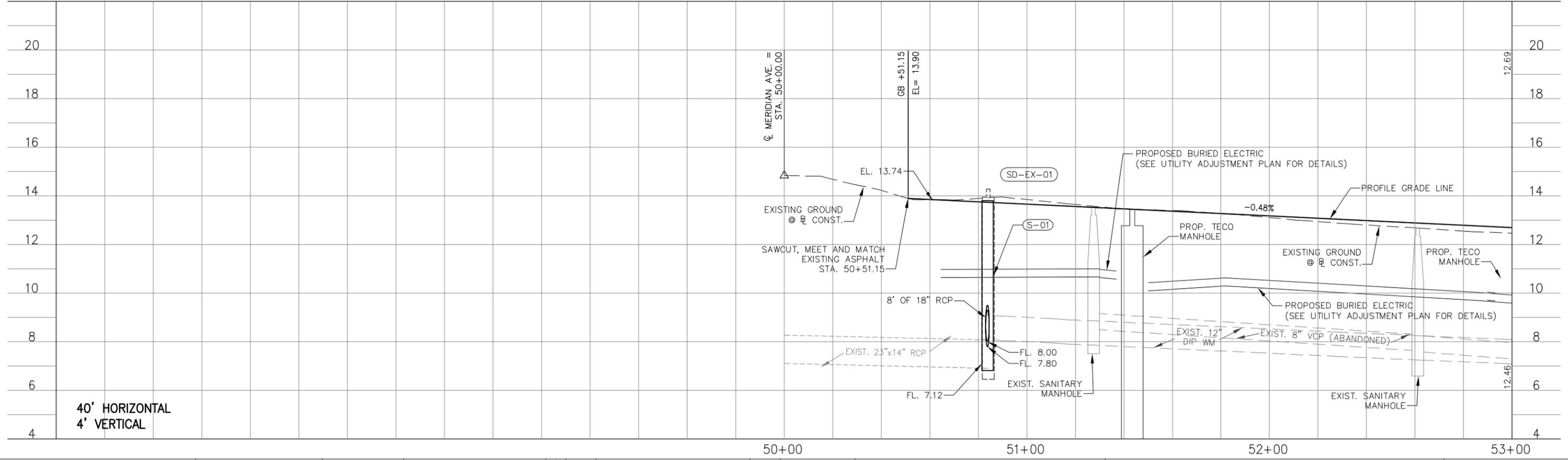
**LEGEND**

- PROPOSED PAVEMENT SECTION (SEE SHEET 4)
- PROPOSED MILLING & RESURFACING SECTION (SEE SHEET 4)
- 6" THK. CONCRETE SIDEWALK
- PROPOSED LIGHT POLE
- SEE HARDSCAPE PLANS FOR SIDEWALK CONSTRUCTION DETAILS



MATCHLINE - STA. 53+00.00 - SEE SHEET 09

E. MADISON STREET



40' HORIZONTAL  
4' VERTICAL

2205 North 20th Street, Tampa, FL 33605  
 800.643.4336 • 813.223.9500 • F 813.223.0009 • www.stantec.com  
 Stantec Consulting Services, Inc. • CA# 27013 • FL Lic. # LC-26000314

RAMIREZA SAHEBKAR, P.E.  
FLORIDA LICENSE NO. 39991

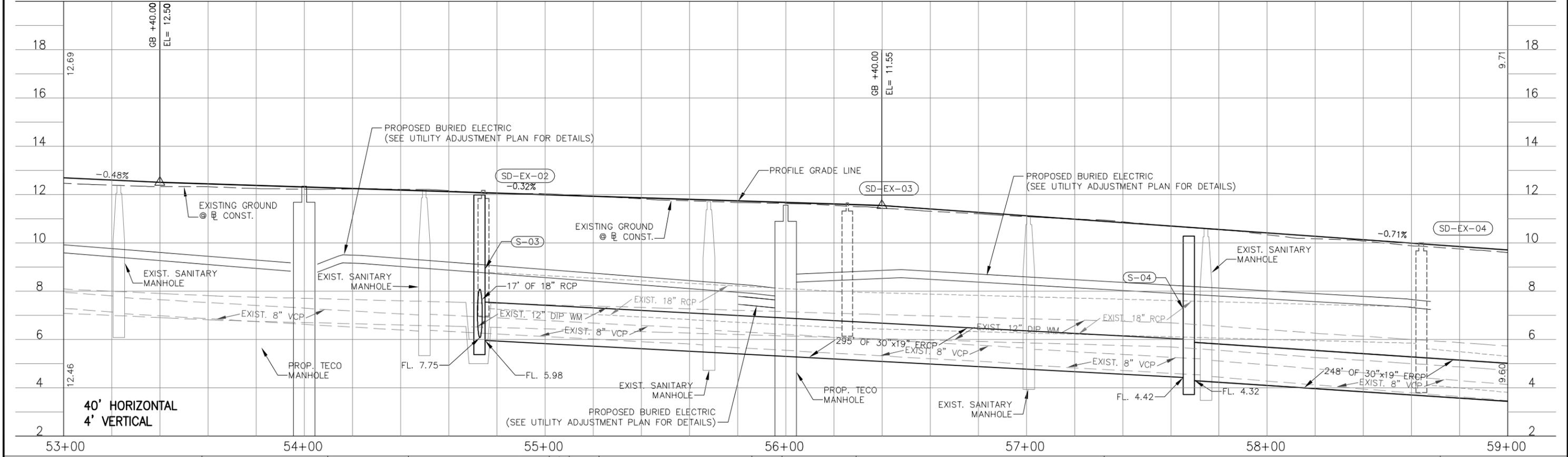
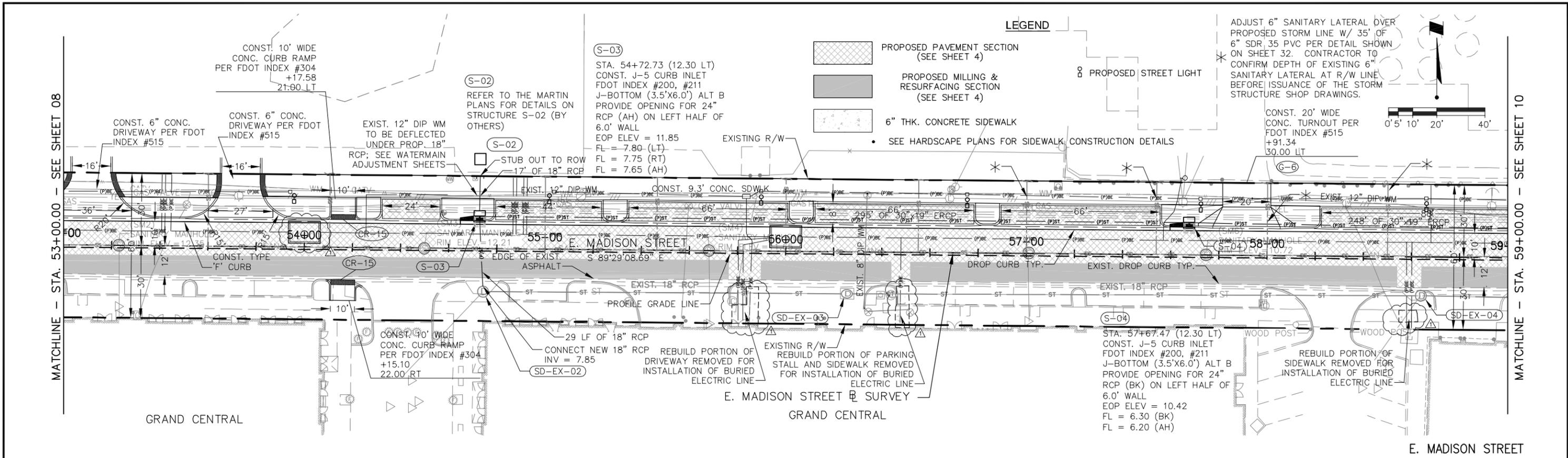
Drawn: RND	Date: 11/22/2013	△		
Designed: RND	Date: 11/22/2013	△		
Checked: JDJ	Date: 11/22/2013	△		
Reviewed: HS	Date: 11/22/2013	△		
Approved:	Date:	△		
Approved:	Date:	No:	140109	RECONFIGURATION OF TECO BURIED ELEC LINES
	Date:	No:		Revision:
				By:



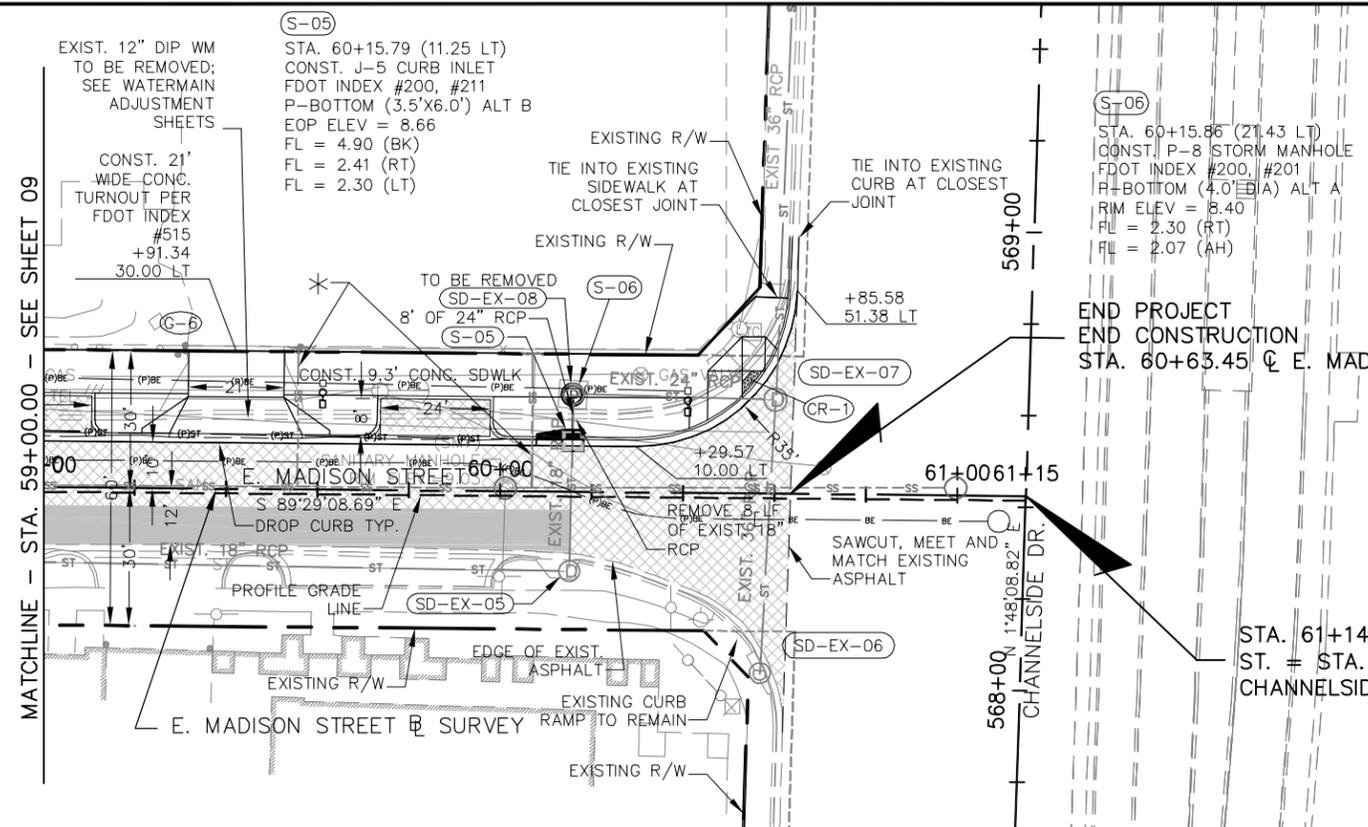
CITY OF TAMPA  
ECONOMIC AND URBAN  
DEVELOPMENT DEPARTMENT

E. MADISON STREET IMPROVEMENTS  
PLAN & PROFILE SHEET (1 OF 3)

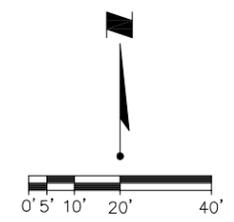
Field Book:	
Atlas Sheet:	
File No.	Index No.
Job No. 215611523	21561523-004
Scale: N/A	
SHEET 08	



 800.643.4336 • 2205 North 20th Street, Tampa, FL 33605 Stantec Consulting Services, Inc. • CA# 27013 • FL Lic. # LC-26000314	Drawn: RND Date: 11/22/2013 Designed: RND Date: 11/22/2013 Checked: JDJ Date: 11/22/2013 Reviewed: HS Date: 11/22/2013 Approved: Date: _____ Approved: Date: _____	Date: 11/22/2013 Date: 11/22/2013 Date: 11/22/2013 Date: 11/22/2013 Date: _____ Date: _____	140109 No: _____ Date: _____ Revision: _____	 CITY OF TAMPA ECONOMIC AND URBAN DEVELOPMENT DEPARTMENT	Field Book: Atlas Sheet: File No. _____ Index No. _____ Job No. 215611523 Scale: N/A SHEET 09
---	---	--	---	---	--



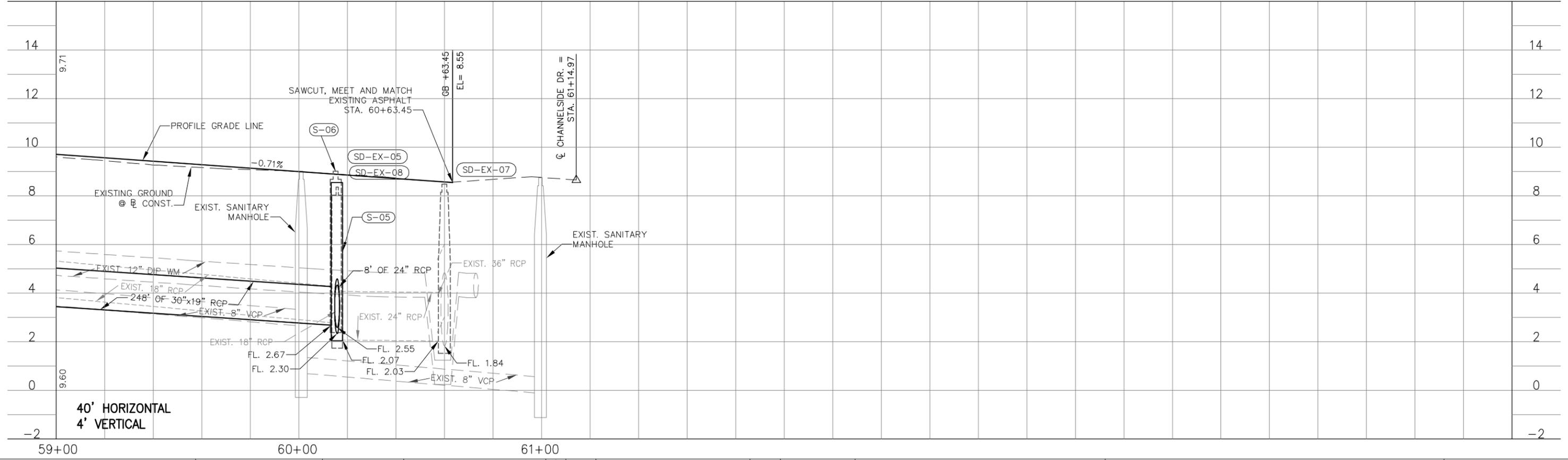
ADJUST 6" SANITARY LATERAL OVER PROPOSED STORM LINE W/ 35' OF 6" SDR 35 PVC PER DETAIL SHOWN ON SHEET 32. CONTRACTOR TO CONFIRM DEPTH OF EXISTING 6" SANITARY LATERAL AT R/W LINE BEFORE ISSUANCE OF THE STORM STRUCTURE SHOP DRAWINGS.



**LEGEND**

-  PROPOSED PAVEMENT SECTION (SEE SHEET 4)
-  PROPOSED MILLING & RESURFACING SECTION (SEE SHEET 4)
-  6" THK. CONCRETE SIDEWALK
-  PROPOSED LIGHT POLE
- SEE HARDSCAPE PLANS FOR SIDEWALK CONSTRUCTION DETAILS

**E. MADISON STREET**




2205 North 20th Street, Tampa, FL 33605  
 800.643.4336 • 813.223.9500 • F 813.223.0009 • www.stantec.com  
 Stantec Consulting Services, Inc. • CA# 27013 • FL Lic. # LC-26000314

Drawn: RND	Date: 11/22/2013	▲	
Designed: RND	Date: 11/22/2013	▲	
Checked: JDJ	Date: 11/22/2013	▲	
Reviewed: HS	Date: 11/22/2013	▲	
Approved:	Date:	▲	
Approved:	Date:	No:	140109
		Date:	
		Revision:	
		By:	RND



CITY OF TAMPA  
 ECONOMIC AND URBAN  
 DEVELOPMENT DEPARTMENT

E. MADISON STREET IMPROVEMENTS  
 PLAN & PROFILE SHEET (3 OF 3)

Field Book:	
Atlas Sheet:	
File No.	Index No.
Job No. 215611523	215611523-004
Scale: N/A	
SHEET 10	

SCALE: 1" = 10' horizontal  
1" = 5' vertical

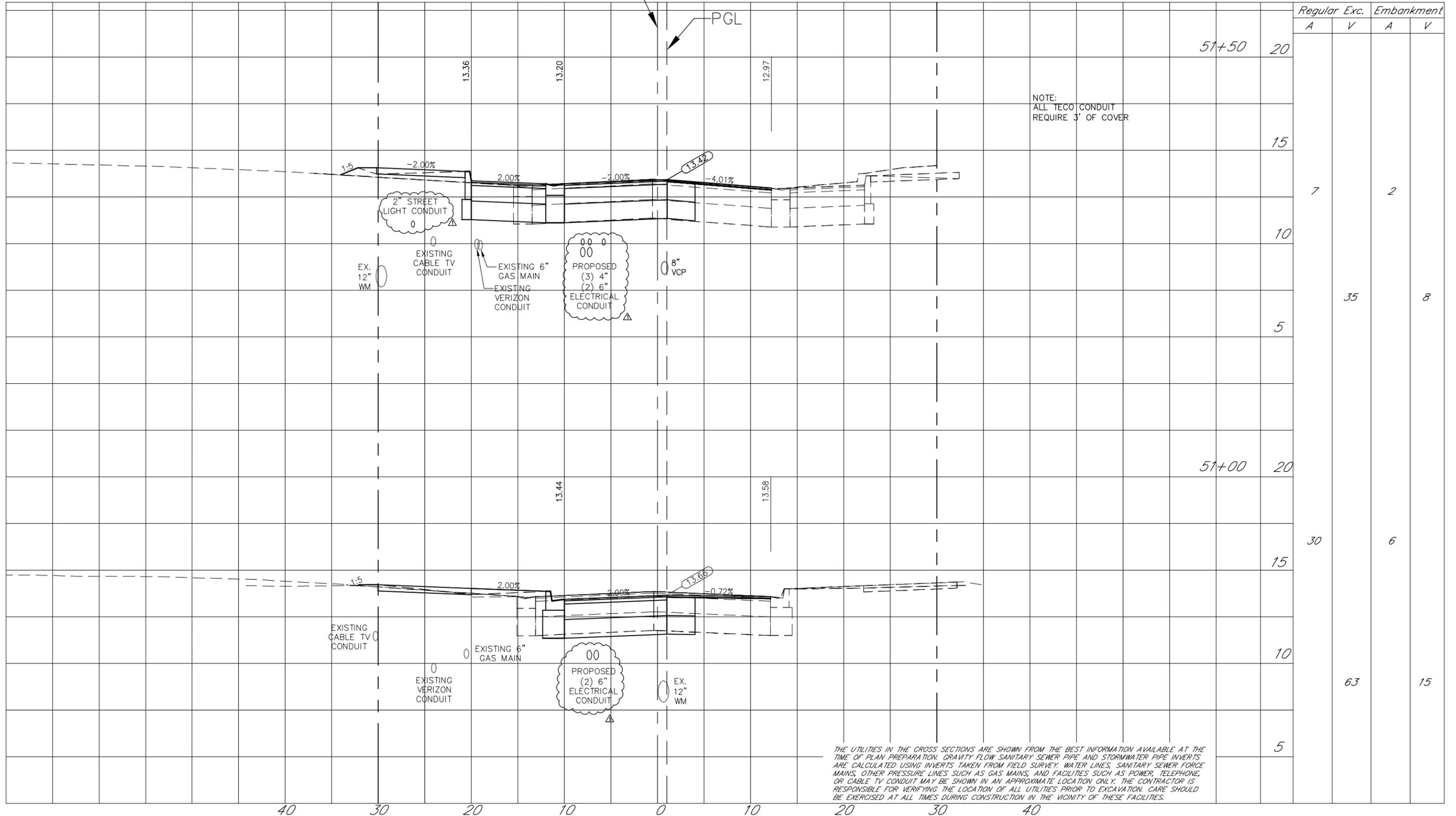
Totals (This Sheet): 98 CY (Cut)  
23 CY (Fill)

E. MADISON STREET

R/W

CONST.

R/W



NOTE:  
ALL TECO CONDUIT  
REQUIRE 3' OF COVER

THE UTILITIES IN THE CROSS SECTIONS ARE SHOWN FROM THE BEST INFORMATION AVAILABLE AT THE TIME OF PLAN PREPARATION. GRAVITY FLOW SANITARY SEWER PIPE AND STORMWATER PIPE INVERTS ARE CALCULATED USING INVERTS TAKEN FROM FIELD SURVEY. WATER LINES, SANITARY SEWER FORCE MAINS, OTHER PRESSURE LINES SUCH AS GAS MAINS, AND FACILITIES SUCH AS POWER, TELEPHONE, OR CABLE TV CONDUIT MAY BE SHOWN IN AN APPROXIMATE LOCATION ONLY. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE LOCATION OF ALL UTILITIES PRIOR TO EXCAVATION. CARE SHOULD BE EXERCISED AT ALL TIMES DURING CONSTRUCTION IN THE VICINITY OF THESE FACILITIES.

Station	Cut (CY)	Regular		Exc.		Embankment	
		A	V	A	V	A	V
51+50	20						
	15						
	7					2	
	10						
	5						
				35			8
51+00	20						
	15						
	30						
	15						
	10						
	5						
				63			15

40 30 20 10 0 10 20 30 40



HIMOREZA SHERKAR, P.E.  
FLORIDA LICENSE NO. 39991

Drawn: RND	Date: 11/22/2015	
Designed: RND	Date: 11/22/2015	
Checked: JDJ	Date: 11/22/2015	
Reviewed: HS	Date: 11/22/2015	
Approved:	Date:	
Approved:	Date:	



CITY OF TAMPA  
ECONOMIC AND URBAN  
DEVELOPMENT DEPARTMENT

E. MADISON STREET IMPROVEMENTS  
CROSS SECTIONS (1 OF 10)

Field Book:	
Atlas Sheet:	
File No.	Index No.
Job No. 215611523	
Scale: N/A	
SHEET 11	

SCALE: 1" = 10' horizontal  
1" = 5' vertical

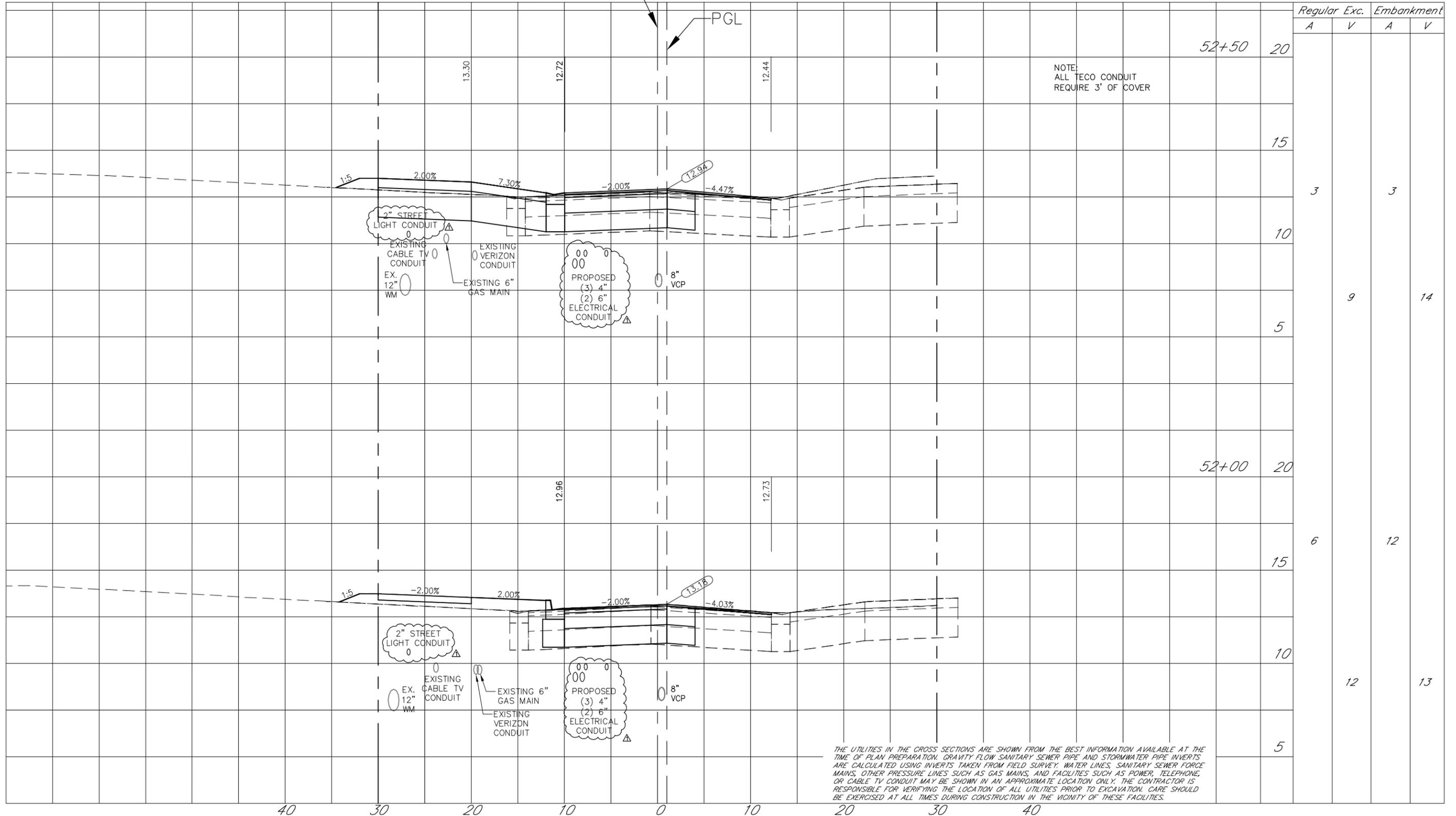
Totals (This Sheet): 21 CY (Cut)  
27 CY (Fill)

E. MADISON STREET

R/W

CONST.

R/W



NOTE:  
ALL TECO CONDUIT  
REQUIRE 3' OF COVER

THE UTILITIES IN THE CROSS SECTIONS ARE SHOWN FROM THE BEST INFORMATION AVAILABLE AT THE TIME OF PLAN PREPARATION. GRAVITY FLOW SANITARY SEWER PIPE AND STORMWATER PIPE INVERTS ARE CALCULATED USING INVERTS TAKEN FROM FIELD SURVEY. WATER LINES, SANITARY SEWER FORCE MAINS, OTHER PRESSURE LINES SUCH AS GAS MAINS, AND FACILITIES SUCH AS POWER, TELEPHONE, OR CABLE TV CONDUIT MAY BE SHOWN IN AN APPROXIMATE LOCATION ONLY. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE LOCATION OF ALL UTILITIES PRIOR TO EXCAVATION. CARE SHOULD BE EXERCISED AT ALL TIMES DURING CONSTRUCTION IN THE VICINITY OF THESE FACILITIES.

40 30 20 10 0 10 20 30 40

Drawn: RND	Date: 11/22/2015	△
Designed: RND	Date: 11/22/2015	△
Checked: JDJ	Date: 11/22/2015	△
Reviewed: HS	Date: 11/22/2015	△
Approved: _____	Date: _____	△
Approved: _____	Date: _____	△
No: 140109	Date: _____	△
Revision: RECONFIGURATION OF TECO BURIED ELEC LINES	Date: _____	△
By: RND	Date: _____	△



CITY OF TAMPA  
ECONOMIC AND URBAN  
DEVELOPMENT DEPARTMENT

E. MADISON STREET IMPROVEMENTS  
CROSS SECTIONS (2 OF 10)

Field Book:	
Atlas Sheet:	
File No.	Index No.
Job No. 215611523	
Scale: N/A	
SHEET 12	



HIMOREZA SHARMA, P.E.  
FLORIDA LICENSE NO. 39991

SCALE: 1" = 10' horizontal  
1" = 5' vertical

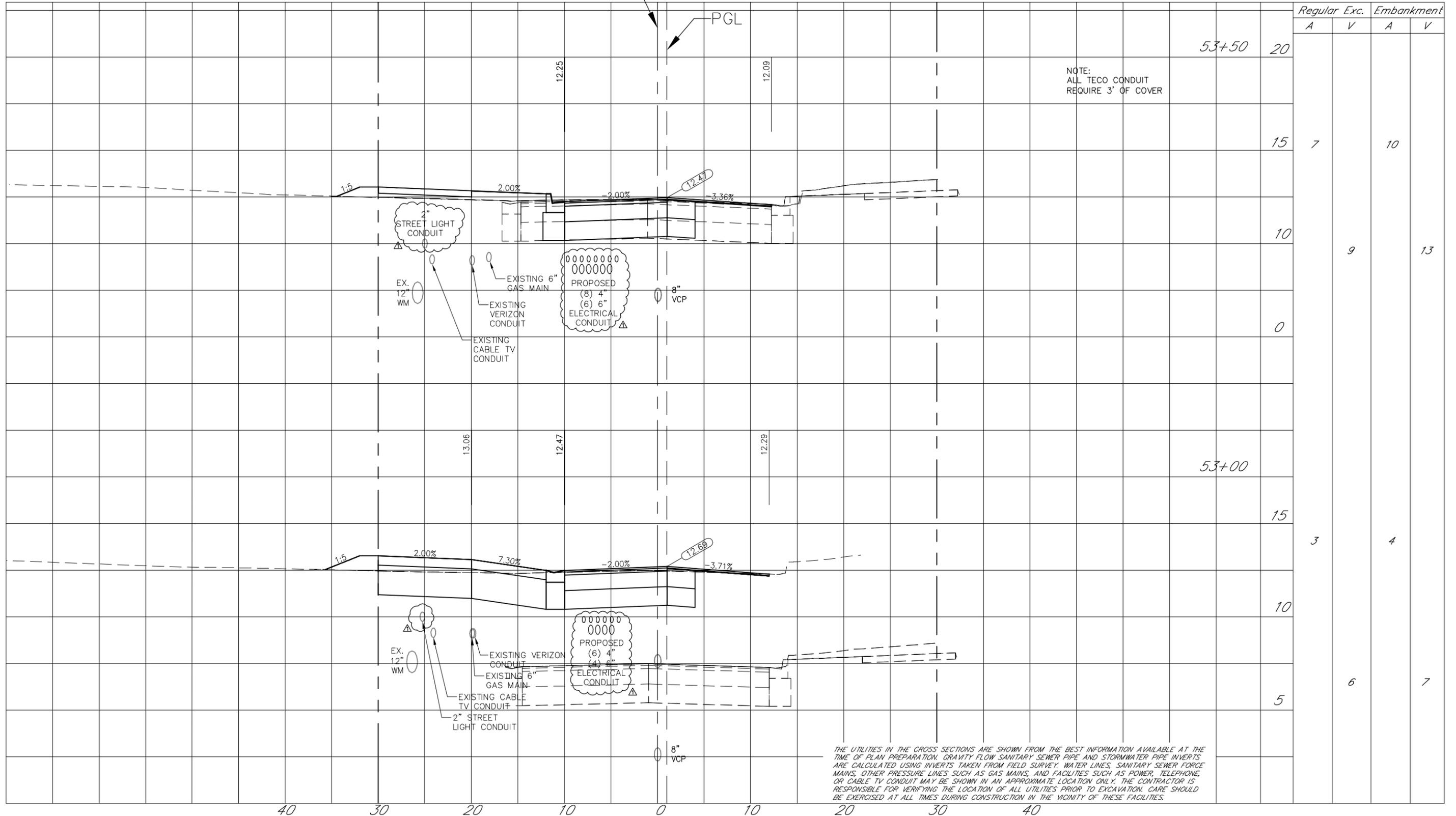
Totals (This Sheet): 15 CY (Cut)  
20 CY (Fill)

E. MADISON STREET

R/W

CONST.

R/W



Station	Regular		Exc.		Embankment	
	A	V	A	V	A	V
53+50						
53+45						
53+40						
53+35						
53+30						
53+25						
53+20						
53+15						
53+10						
53+05						
53+00						
52+55						
52+50						
52+45						
52+40						
52+35						
52+30						
52+25						
52+20						
52+15						
52+10						
52+05						
52+00						
51+55						
51+50						
51+45						
51+40						
51+35						
51+30						
51+25						
51+20						
51+15						
51+10						
51+05						
51+00						
50+55						
50+50						
50+45						
50+40						
50+35						
50+30						
50+25						
50+20						
50+15						
50+10						
50+05						
50+00						

THE UTILITIES IN THE CROSS SECTIONS ARE SHOWN FROM THE BEST INFORMATION AVAILABLE AT THE TIME OF PLAN PREPARATION. GRAVITY FLOW SANITARY SEWER PIPE AND STORMWATER PIPE INVERTS ARE CALCULATED USING INVERTS TAKEN FROM FIELD SURVEY. WATER LINES, SANITARY SEWER FORCE MAINS, OTHER PRESSURE LINES SUCH AS GAS MAINS, AND FACILITIES SUCH AS POWER, TELEPHONE, OR CABLE TV CONDUIT MAY BE SHOWN IN AN APPROXIMATE LOCATION ONLY. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE LOCATION OF ALL UTILITIES PRIOR TO EXCAVATION. CARE SHOULD BE EXERCISED AT ALL TIMES DURING CONSTRUCTION IN THE VICINITY OF THESE FACILITIES.

40 30 20 10 0 10 20 30 40



HAMIREZA SHAHBAZ, P.E.  
FLORIDA LICENSE NO. 39991

Drawn: RND	Date: 11/22/2015	
Designed: RND	Date: 11/22/2015	
Checked: JDJ	Date: 11/22/2015	
Reviewed: HS	Date: 11/22/2015	
Approved: _____	Date: _____	
Approved: _____	Date: _____	
No: 140109	Date: _____	Revision: RECONFIGURATION OF TECO BURIED ELEC LINES
By: RND	Date: _____	



CITY OF TAMPA  
ECONOMIC AND URBAN  
DEVELOPMENT DEPARTMENT

E. MADISON STREET IMPROVEMENTS  
CROSS SECTIONS (3 OF 10)

Field Book:	
Atlas Sheet:	
File No.:	Index No.
Job No. 215611523	
Scale: N/A	215611523-011
SHEET 13	

SCALE: 1" = 10' horizontal  
1" = 5' vertical

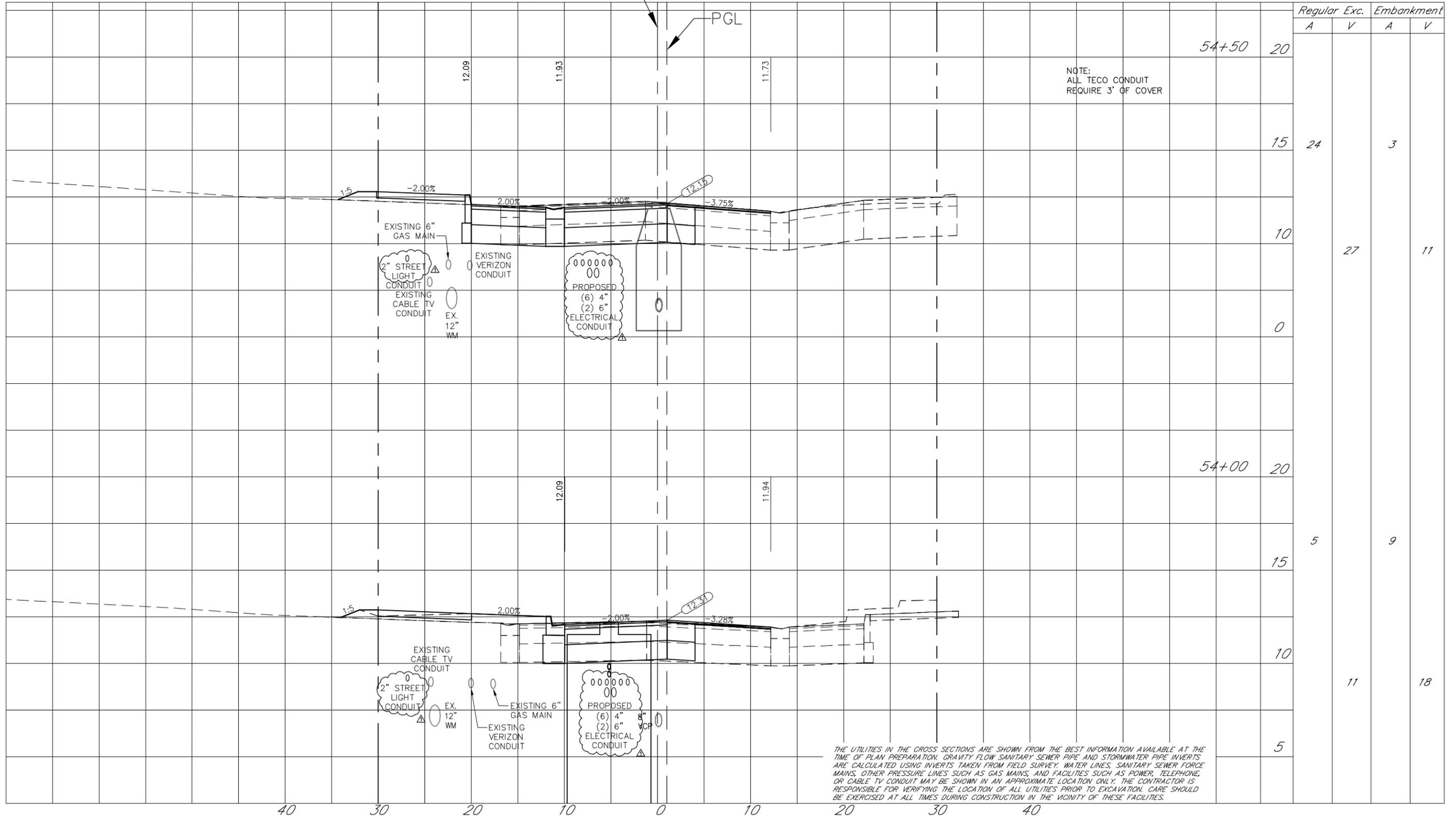
Totals (This Sheet): 38 CY (Cut)  
29 CY (Fill)

E. MADISON STREET

R/W

CONST.

R/W



NOTE:  
ALL TECO CONDUIT  
REQUIRE 3' OF COVER

THE UTILITIES IN THE CROSS SECTIONS ARE SHOWN FROM THE BEST INFORMATION AVAILABLE AT THE TIME OF PLAN PREPARATION. GRAVITY FLOW SANITARY SEWER PIPE AND STORMWATER PIPE INVERTS ARE CALCULATED USING INVERTS TAKEN FROM FIELD SURVEY. WATER LINES, SANITARY SEWER FORCE MAINS, OTHER PRESSURE LINES SUCH AS GAS MAINS, AND FACILITIES SUCH AS POWER, TELEPHONE, OR CABLE TV CONDUIT MAY BE SHOWN IN AN APPROXIMATE LOCATION ONLY. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE LOCATION OF ALL UTILITIES PRIOR TO EXCAVATION. CARE SHOULD BE EXERCISED AT ALL TIMES DURING CONSTRUCTION IN THE VICINITY OF THESE FACILITIES.

40 30 20 10 0 10 20 30 40

Drawn: RND	Date: 11/22/2015	△
Designed: RND	Date: 11/22/2015	△
Checked: JDJ	Date: 11/22/2015	△
Reviewed: HS	Date: 11/22/2015	△
Approved:	Date:	△
Approved:	Date:	△



CITY OF TAMPA  
ECONOMIC AND URBAN  
DEVELOPMENT DEPARTMENT

E. MADISON STREET IMPROVEMENTS  
CROSS SECTIONS (4 OF 10)

Field Book:	
Atlas Sheet:	
File No.	Index No.
Job No. 215611523	
Scale: N/A	
SHEET 14	



HANMUREZA SAHEWAL, P.E.  
FLORIDA LICENSE NO. 39991

SCALE: 1" = 10' horizontal  
1" = 5' vertical

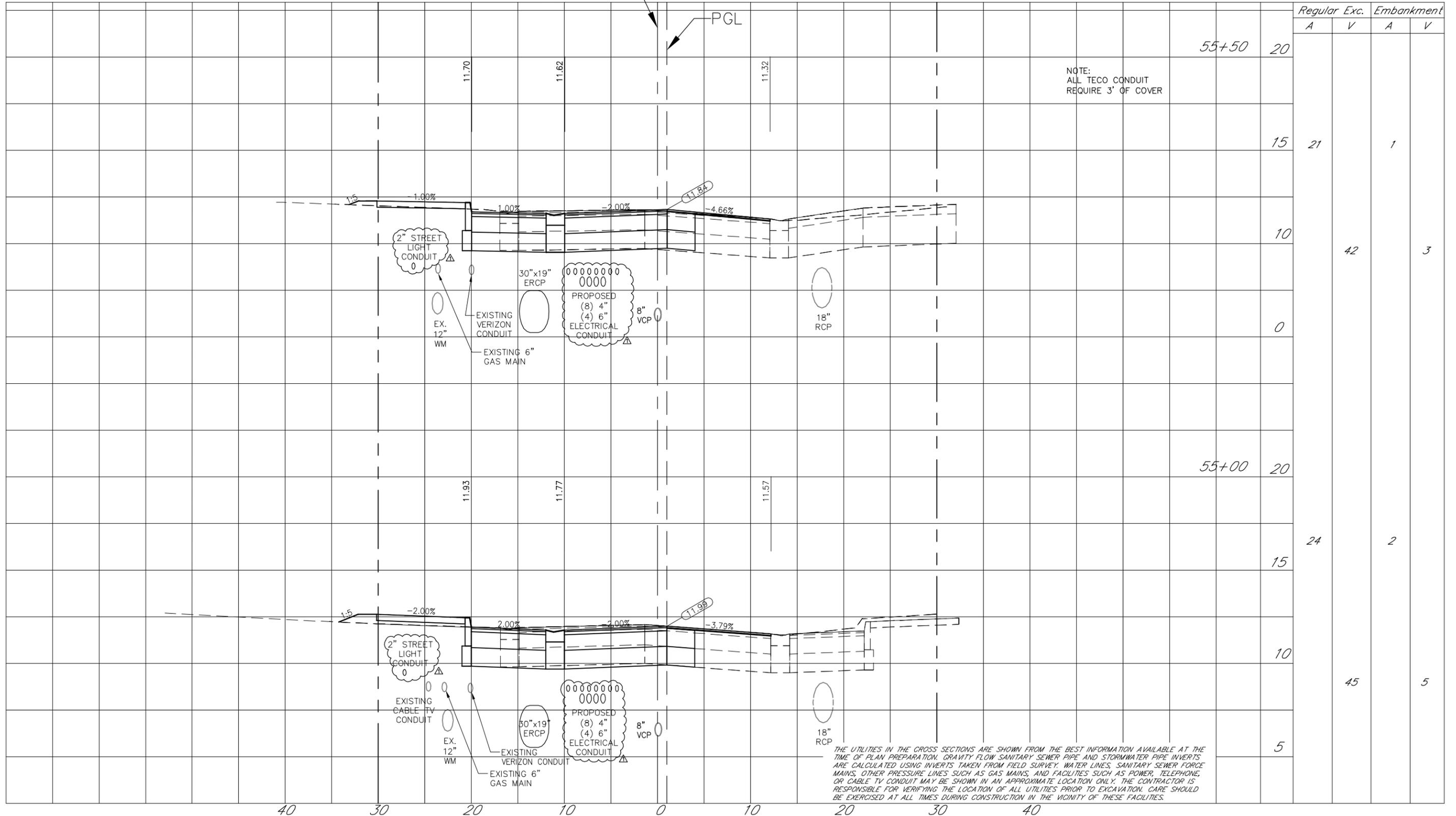
Totals (This Sheet): 87 CY (Cut)  
8 CY (Fill)

E. MADISON STREET

R/W

CONST.

R/W



NOTE:  
ALL TECO CONDUIT  
REQUIRE 3' OF COVER

Station	Regular		Exc.		Embankment	
	A	V	A	V	A	V
55+50	20					
15	21			1		
10			42			3
0						
55+00	20					
15	24			2		
10			45			5
5						

THE UTILITIES IN THE CROSS SECTIONS ARE SHOWN FROM THE BEST INFORMATION AVAILABLE AT THE TIME OF PLAN PREPARATION. GRAVITY FLOW SANITARY SEWER PIPE AND STORMWATER PIPE INVERTS ARE CALCULATED USING INVERTS TAKEN FROM FIELD SURVEY. WATER LINES, SANITARY SEWER FORCE MAINS, OTHER PRESSURE LINES SUCH AS GAS MAINS, AND FACILITIES SUCH AS POWER, TELEPHONE, OR CABLE TV CONDUIT MAY BE SHOWN IN AN APPROXIMATE LOCATION ONLY. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE LOCATION OF ALL UTILITIES PRIOR TO EXCAVATION. CARE SHOULD BE EXERCISED AT ALL TIMES DURING CONSTRUCTION IN THE VICINITY OF THESE FACILITIES.

40 30 20 10 0 10 20 30 40



HAMIREZA SAHEWARI, P.E.  
FLORIDA LICENSE NO. 39991

Drawn: RND	Date: 11/22/2015	△
Designed: RND	Date: 11/22/2015	△
Checked: JDJ	Date: 11/22/2015	△
Reviewed: HS	Date: 11/22/2015	△
Approved: _____	Date: _____	△
Approved: _____	Date: _____	△



CITY OF TAMPA  
ECONOMIC AND URBAN  
DEVELOPMENT DEPARTMENT

E. MADISON STREET IMPROVEMENTS  
CROSS SECTIONS (5 OF 10)

Field Book:	
Atlas Sheet:	
File No.	Index No.
Job No. 215611523	
Scale: N/A	215611523-013
SHEET 15	

SCALE: 1" = 10' horizontal  
1" = 5' vertical

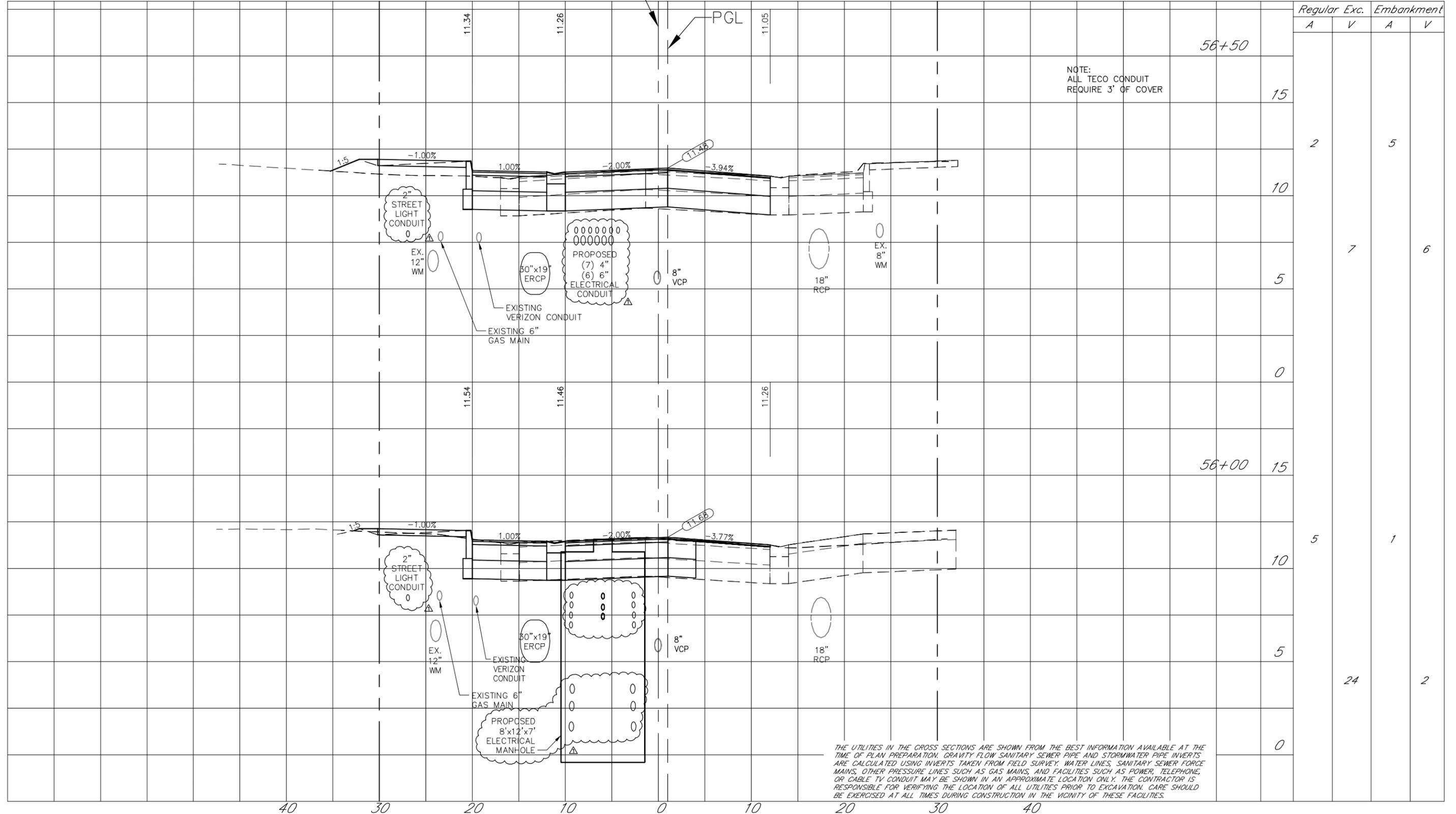
Totals (This Sheet): 31 CY (Cut)  
8 CY (Fill)

E. MADISON STREET

R/W

CONST.

R/W



NOTE:  
ALL TECO CONDUIT  
REQUIRE 3' OF COVER

THE UTILITIES IN THE CROSS SECTIONS ARE SHOWN FROM THE BEST INFORMATION AVAILABLE AT THE TIME OF PLAN PREPARATION. GRAVITY FLOW SANITARY SEWER PIPE AND STORMWATER PIPE INVERTS ARE CALCULATED USING INVERTS TAKEN FROM FIELD SURVEY. WATER LINES, SANITARY SEWER FORCE MAINS, OTHER PRESSURE LINES SUCH AS GAS MAINS, AND FACILITIES SUCH AS POWER, TELEPHONE, OR CABLE TV CONDUIT MAY BE SHOWN IN AN APPROXIMATE LOCATION ONLY. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE LOCATION OF ALL UTILITIES PRIOR TO EXCAVATION. CARE SHOULD BE EXERCISED AT ALL TIMES DURING CONSTRUCTION IN THE VICINITY OF THESE FACILITIES.

40 30 20 10 0 10 20 30 40

Drawn: RND	Date: 11/22/2015	△
Designed: RND	Date: 11/22/2015	△
Checked: JDJ	Date: 11/22/2015	△
Reviewed: HS	Date: 11/22/2015	△
Approved: _____	Date: _____	△
Approved: _____	Date: _____	△
No: 140109	Date: _____	△
RECONFIGURATION OF TECO BURIED ELEC LINES		RND
Revision: _____	By: _____	



CITY OF TAMPA  
ECONOMIC AND URBAN  
DEVELOPMENT DEPARTMENT

E. MADISON STREET IMPROVEMENTS  
CROSS SECTIONS (6 OF 10)

Field Book:	
Atlas Sheet:	
File No.	Index No.
Job No. 215611523	215611523-014
Scale: N/A	
SHEET 16	



HIMOREZA SHERKAR, P.E.  
FLORIDA LICENSE NO. 39991

SCALE: 1" = 10' horizontal  
1" = 5' vertical

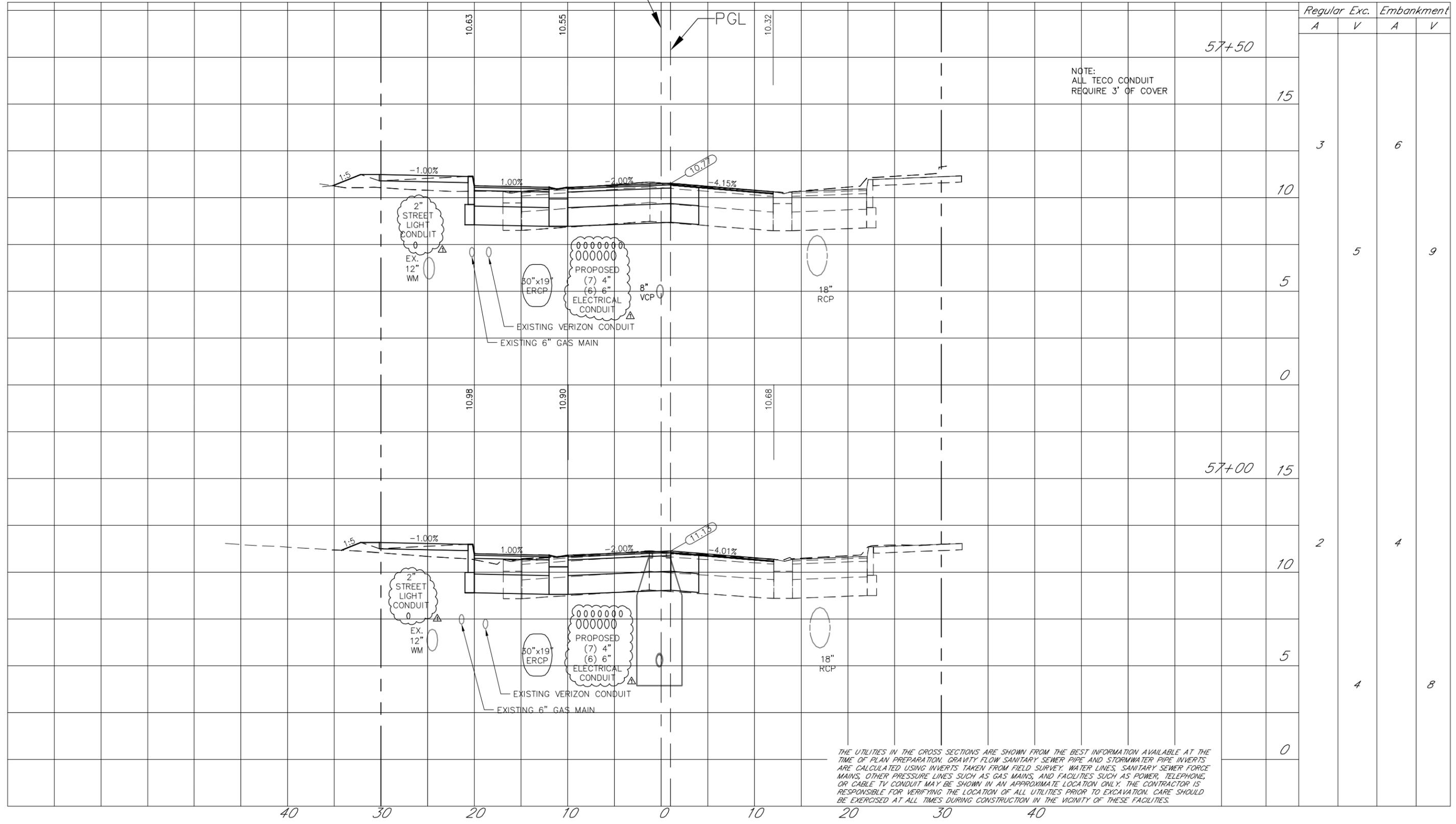
Totals (This Sheet): 9 CY (Cut)  
17 CY (Fill)

E. MADISON STREET

R/W

CONST.

R/W



NOTE:  
ALL TECO CONDUIT  
REQUIRE 3' OF COVER

Station	Regular		Exc.		Embankment	
	A	V	A	V	A	V
57+50						
15						
10	3				6	
5		5				9
0						
57+00						
15						
10	2				4	
5						8
0						

THE UTILITIES IN THE CROSS SECTIONS ARE SHOWN FROM THE BEST INFORMATION AVAILABLE AT THE TIME OF PLAN PREPARATION. GRAVITY FLOW SANITARY SEWER PIPE AND STORMWATER PIPE INVERTS ARE CALCULATED USING INVERTS TAKEN FROM FIELD SURVEY. WATER LINES, SANITARY SEWER FORCE MAINS, OTHER PRESSURE LINES SUCH AS GAS MAINS, AND FACILITIES SUCH AS POWER, TELEPHONE, OR CABLE TV CONDUIT MAY BE SHOWN IN AN APPROXIMATE LOCATION ONLY. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE LOCATION OF ALL UTILITIES PRIOR TO EXCAVATION. CARE SHOULD BE EXERCISED AT ALL TIMES DURING CONSTRUCTION IN THE VICINITY OF THESE FACILITIES.

40 30 20 10 0 10 20 30 40



HIMOREZA SHERKAR, P.E.  
FLORIDA LICENSE NO. 39991

Drawn: RND	Date: 11/22/2015	
Designed: RND	Date: 11/22/2015	
Checked: JDJ	Date: 11/22/2015	
Reviewed: HS	Date: 11/22/2015	
Approved:	Date:	
Approved:	Date:	No: 140109



CITY OF TAMPA  
ECONOMIC AND URBAN  
DEVELOPMENT DEPARTMENT

E. MADISON STREET IMPROVEMENTS  
CROSS SECTIONS (7 OF 10)

Field Book:	
Atlas Sheet:	
File No.	Index No.
Job No. 215611523	
Scale: N/A	
SHEET 17	

SCALE: 1" = 10' horizontal  
1" = 5' vertical

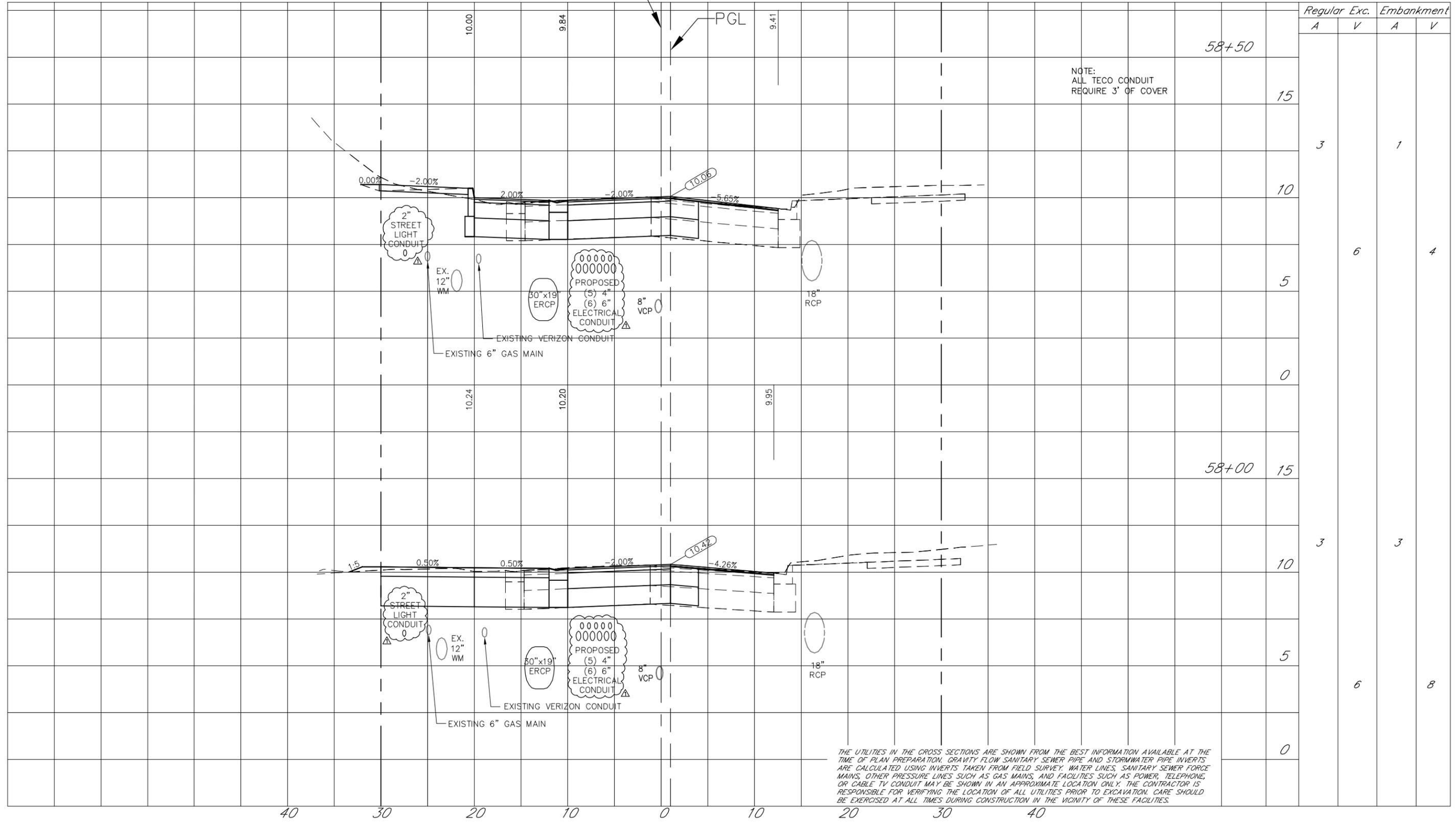
Totals (This Sheet): 12 CY (Cut)  
12 CY (Fill)

E. MADISON STREET

R/W

CONST.

R/W



NOTE:  
ALL TECO CONDUIT  
REQUIRE 3' OF COVER

Station	Regular		Exc.		Embankment	
	A	V	A	V	A	V
58+50						
15						
10						
5						
0						
58+00						
15						
10						
5						
0						

THE UTILITIES IN THE CROSS SECTIONS ARE SHOWN FROM THE BEST INFORMATION AVAILABLE AT THE TIME OF PLAN PREPARATION. GRAVITY FLOW SANITARY SEWER PIPE AND STORMWATER PIPE INVERTS ARE CALCULATED USING INVERTS TAKEN FROM FIELD SURVEY. WATER LINES, SANITARY SEWER FORCE MAINS, OTHER PRESSURE LINES SUCH AS GAS MAINS, AND FACILITIES SUCH AS POWER, TELEPHONE, OR CABLE TV CONDUIT MAY BE SHOWN IN AN APPROXIMATE LOCATION ONLY. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE LOCATION OF ALL UTILITIES PRIOR TO EXCAVATION. CARE SHOULD BE EXERCISED AT ALL TIMES DURING CONSTRUCTION IN THE VICINITY OF THESE FACILITIES.

40 30 20 10 0 10 20 30 40



HAMIREZA SHAHBAZ, P.E.  
FLORIDA LICENSE NO. 39991

Drawn: RND	Date: 11/22/2015	△
Designed: RND	Date: 11/22/2015	△
Checked: JDJ	Date: 11/22/2015	△
Reviewed: HS	Date: 11/22/2015	△
Approved:	Date:	△
Approved:	Date:	△



CITY OF TAMPA  
ECONOMIC AND URBAN  
DEVELOPMENT DEPARTMENT

E. MADISON STREET IMPROVEMENTS  
CROSS SECTIONS (8 OF 10)

Field Book:	
Atlas Sheet:	
File No.	Index No.
Job No. 215611523	
Scale: N/A	
SHEET 18	

SCALE: 1" = 10' horizontal  
1" = 5' vertical

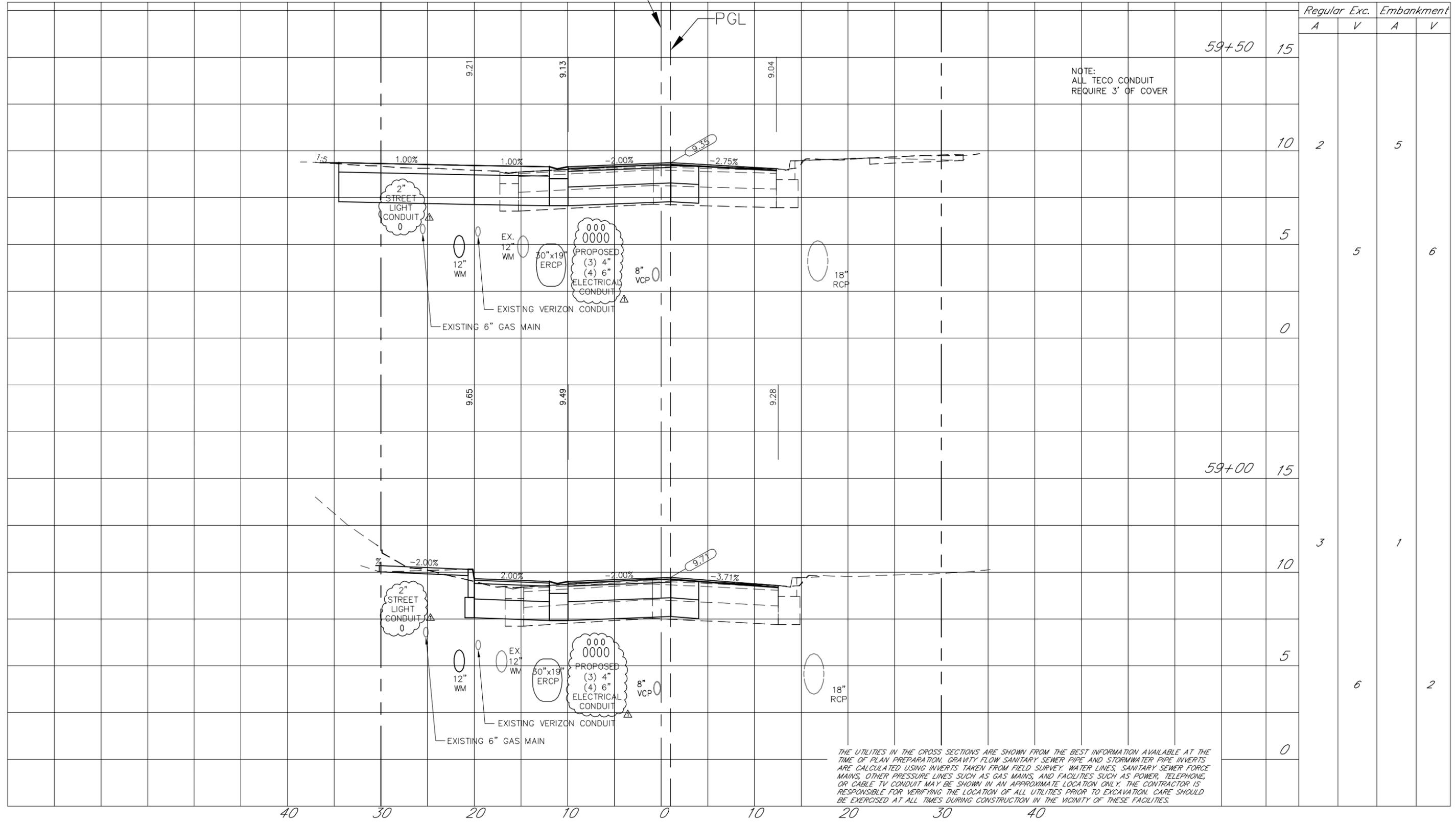
Totals (This Sheet): 11 CY (Cut)  
8 CY (Fill)

E. MADISON STREET

R/W

CONST.

R/W



NOTE:  
ALL TECO CONDUIT  
REQUIRE 3' OF COVER

Station	Cut (CY)	Regular		Exc.		Embankment	
		A	V	A	V	A	V
59+50	15						
59+40	10	2				5	
59+30	5			5			6
59+20	0						
59+00	15						
59+10	10	3				1	
59+20	5			6			2
59+30	0						

THE UTILITIES IN THE CROSS SECTIONS ARE SHOWN FROM THE BEST INFORMATION AVAILABLE AT THE TIME OF PLAN PREPARATION. GRAVITY FLOW SANITARY SEWER PIPE AND STORMWATER PIPE INVERTS ARE CALCULATED USING INVERTS TAKEN FROM FIELD SURVEY. WATER LINES, SANITARY SEWER FORCE MAINS, OTHER PRESSURE LINES SUCH AS GAS MAINS, AND FACILITIES SUCH AS POWER, TELEPHONE, OR CABLE TV CONDUIT MAY BE SHOWN IN AN APPROXIMATE LOCATION ONLY. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE LOCATION OF ALL UTILITIES PRIOR TO EXCAVATION. CARE SHOULD BE EXERCISED AT ALL TIMES DURING CONSTRUCTION IN THE VICINITY OF THESE FACILITIES.

40 30 20 10 0 10 20 30 40



HIMOREZA SHERKAR, P.E.  
FLORIDA LICENSE NO. 39991

Drawn: RND	Date: 11/22/2015	△
Designed: RND	Date: 11/22/2015	△
Checked: JDJ	Date: 11/22/2015	△
Reviewed: HS	Date: 11/22/2015	△
Approved: _____	Date: _____	△
Approved: _____	Date: _____	△
No: 140109	Date: _____	△
RECONFIGURATION OF TECO BURIED ELEC LINES		RND
Revision: _____		By: _____



CITY OF TAMPA  
ECONOMIC AND URBAN  
DEVELOPMENT DEPARTMENT

E. MADISON STREET IMPROVEMENTS  
CROSS SECTIONS (9 OF 10)

Field Book:	
Atlas Sheet:	
File No.	Index No.
Job No. 215611523	215611523-017
Scale: N/A	
SHEET 19	

SCALE: 1" = 10' horizontal  
1" = 5' vertical

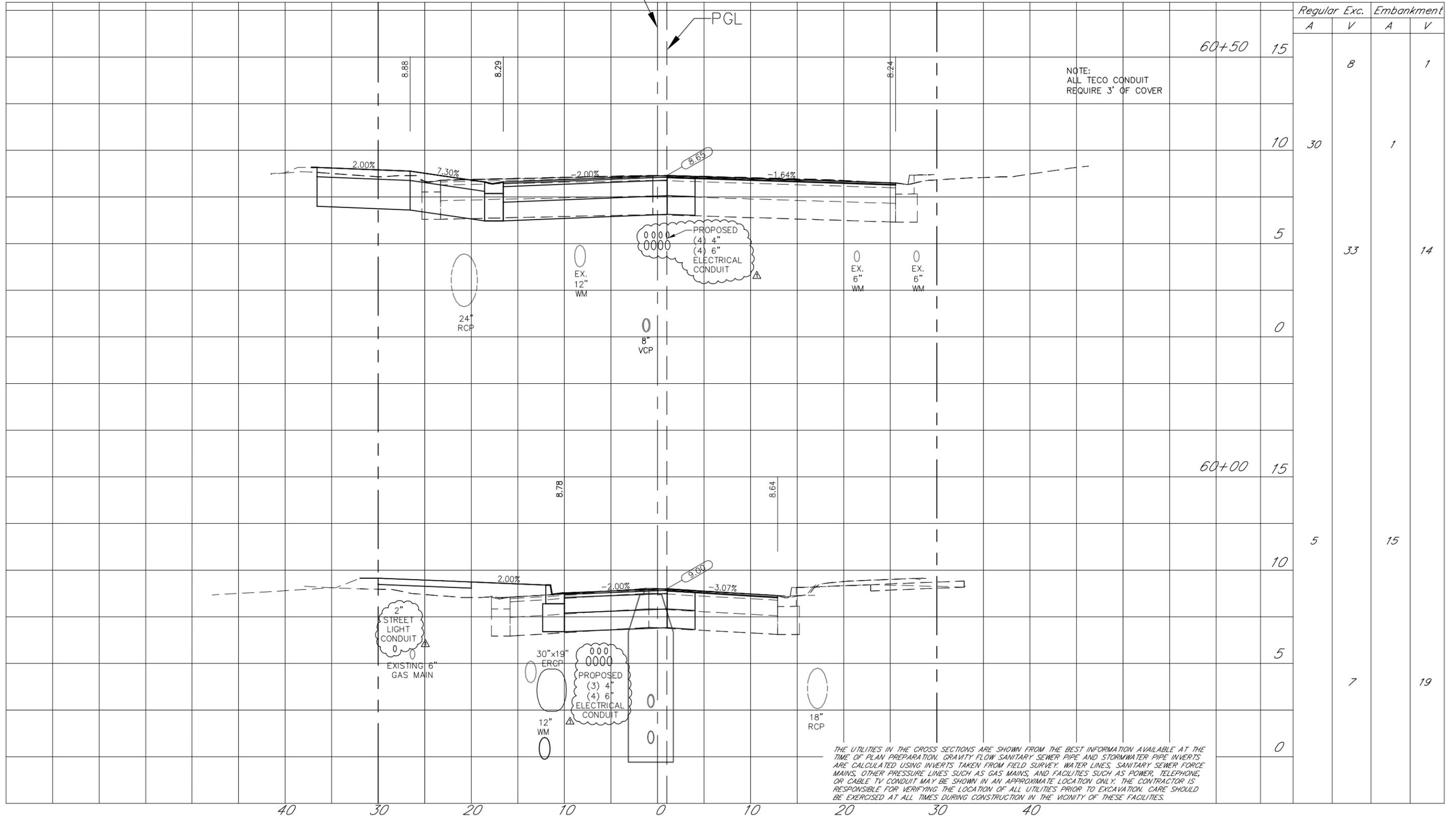
Totals (This Sheet): 48 CY (Cut)  
34 CY (Fill)

E. MADISON STREET

R/W

CONST.

R/W



Station	Cut (CY)	Regular		Exc.		Embankment	
		A	V	A	V	A	V
60+50	15				8		1
	10	30				1	
	5				33		14
	0						
60+00	15						
	10		5			15	
	5						
	0				7		19

NOTE:  
ALL TECO CONDUIT  
REQUIRE 3' OF COVER

THE UTILITIES IN THE CROSS SECTIONS ARE SHOWN FROM THE BEST INFORMATION AVAILABLE AT THE TIME OF PLAN PREPARATION. GRAVITY FLOW SANITARY SEWER PIPE AND STORMWATER PIPE INVERTS ARE CALCULATED USING INVERTS TAKEN FROM FIELD SURVEY. WATER LINES, SANITARY SEWER FORCE MAINS, OTHER PRESSURE LINES SUCH AS GAS MAINS, AND FACILITIES SUCH AS POWER, TELEPHONE, OR CABLE TV CONDUIT MAY BE SHOWN IN AN APPROXIMATE LOCATION ONLY. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE LOCATION OF ALL UTILITIES PRIOR TO EXCAVATION. CARE SHOULD BE EXERCISED AT ALL TIMES DURING CONSTRUCTION IN THE VICINITY OF THESE FACILITIES.

40 30 20 10 0 10 20 30 40



HAMIREZA SAHEWARI, P.E.  
FLORIDA LICENSE NO. 39991

Drawn: RND	Date: 11/22/2015	
Designed: RND	Date: 11/22/2015	
Checked: JDJ	Date: 11/22/2015	
Reviewed: HS	Date: 11/22/2015	
Approved:	Date:	
Approved:	Date:	

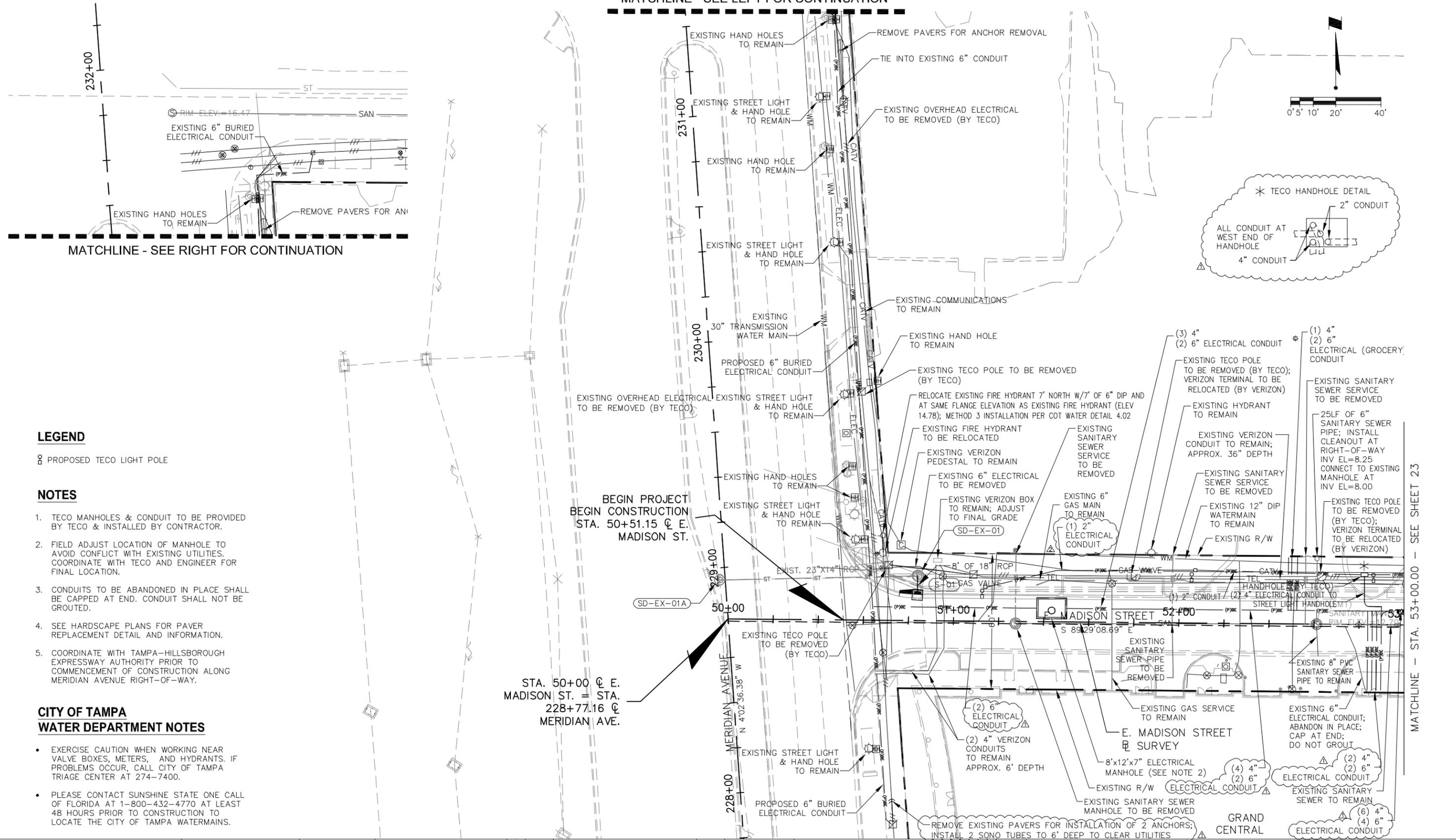


CITY OF TAMPA  
ECONOMIC AND URBAN  
DEVELOPMENT DEPARTMENT

E. MADISON STREET IMPROVEMENTS  
CROSS SECTIONS (10 OF 10)

Field Book:	
Atlas Sheet:	
File No.	Index No.
Job No. 215611523	
Scale: N/A	
SHEET 20	

MATCHLINE - SEE LEFT FOR CONTINUATION



**LEGEND**

⊗ PROPOSED TECO LIGHT POLE

**NOTES**

- TECO MANHOLES & CONDUIT TO BE PROVIDED BY TECO & INSTALLED BY CONTRACTOR.
- FIELD ADJUST LOCATION OF MANHOLE TO AVOID CONFLICT WITH EXISTING UTILITIES. COORDINATE WITH TECO AND ENGINEER FOR FINAL LOCATION.
- CONDUITS TO BE ABANDONED IN PLACE SHALL BE CAPPED AT END. CONDUIT SHALL NOT BE GROUTED.
- SEE HARDSCAPE PLANS FOR PAVER REPLACEMENT DETAIL AND INFORMATION.
- COORDINATE WITH TAMPA-HILLSBOROUGH EXPRESSWAY AUTHORITY PRIOR TO COMMENCEMENT OF CONSTRUCTION ALONG MERIDIAN AVENUE RIGHT-OF-WAY.

**CITY OF TAMPA WATER DEPARTMENT NOTES**

- EXERCISE CAUTION WHEN WORKING NEAR VALVE BOXES, METERS, AND HYDRANTS. IF PROBLEMS OCCUR, CALL CITY OF TAMPA TRIAGE CENTER AT 274-7400.
- PLEASE CONTACT SUNSHINE STATE ONE CALL OF FLORIDA AT 1-800-432-4770 AT LEAST 48 HOURS PRIOR TO CONSTRUCTION TO LOCATE THE CITY OF TAMPA WATERMAINS.

BEGIN PROJECT  
BEGIN CONSTRUCTION  
STA. 50+51.15 @ E.  
MADISON ST.

STA. 50+00 @ E.  
MADISON ST. = STA.  
228+77.16 @  
MERIDIAN AVE.

MATCHLINE - STA. 53+00.00 - SEE SHEET 23

Drawn: RND	Date: 11/22/2013	▲		
Designed: RND	Date: 11/22/2013	▲		
Checked: JDJ	Date: 11/22/2013	▲		
Reviewed: HS	Date: 11/22/2013	▲		
Approved:	Date:	▲	140109	ADDITION OF STREET LIGHT CONDUITS
Approved:	Date:	▲	140109	RECONFIGURATION OF TECO BURIED ELEC LINES
Approved:	Date:	No:	Date:	Revision:



CITY OF TAMPA  
ECONOMIC AND URBAN  
DEVELOPMENT DEPARTMENT

E. MADISON STREET IMPROVEMENTS  
UTILITY ADJUSTMENT (1 OF 3)

Field Book:	
Atlas Sheet:	
File No.	Index No.
Job No. 215611523	215611523-006
Scale: N/A	
SHEET 24	



2205 North 20th Street, Tampa, FL 33605  
800.643.4336 • 813.223.9500 • F 813.223.0009 • www.stantec.com  
Stantec Consulting Services, Inc. • CA# 27013 • FL Lic. # LC-26000314

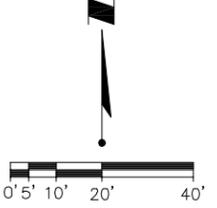
HAMDREZA SAHEBKAR, P.E.  
FLORIDA LICENSE NO. 39991

**NOTES**

- TECO MANHOLES & CONDUIT TO BE PROVIDED BY TECO & INSTALLED BY CONTRACTOR.
- FIELD ADJUST LOCATION OF MANHOLE TO AVOID CONFLICT WITH EXISTING UTILITIES. COORDINATE WITH TECO AND ENGINEER FOR FINAL LOCATION.
- CONDUITS TO BE ABANDONED IN PLACE SHALL BE CAPPED AT END. CONDUIT SHALL NOT BE GROUTED.
- SEE HARDSCAPE PLANS FOR PAVEMENT REPLACEMENT DETAIL AND INFORMATION.
- COORDINATE WITH TAMPA-HILLSBOROUGH EXPRESSWAY AUTHORITY PRIOR TO COMMENCEMENT OF CONSTRUCTION ALONG MERIDIAN AVENUE RIGHT-OF-WAY.

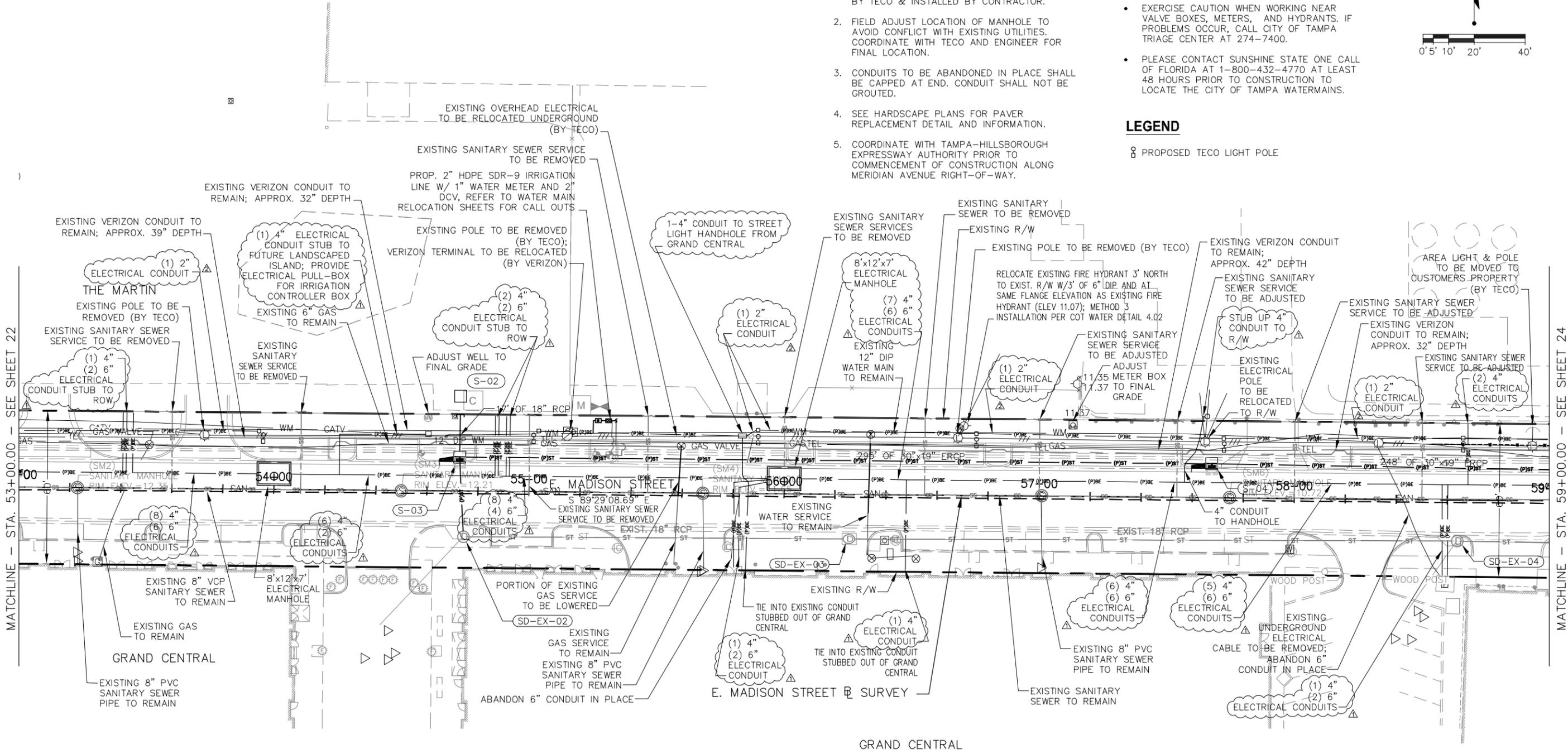
**CITY OF TAMPA WATER DEPARTMENT NOTES**

- EXERCISE CAUTION WHEN WORKING NEAR VALVE BOXES, METERS, AND HYDRANTS. IF PROBLEMS OCCUR, CALL CITY OF TAMPA TRIAGE CENTER AT 274-7400.
- PLEASE CONTACT SUNSHINE STATE ONE CALL OF FLORIDA AT 1-800-432-4770 AT LEAST 48 HOURS PRIOR TO CONSTRUCTION TO LOCATE THE CITY OF TAMPA WATERMAINS.



**LEGEND**

⊗ PROPOSED TECO LIGHT POLE



MATCHLINE - STA. 53+00.00 - SEE SHEET 22

MATCHLINE - STA. 59+00.00 - SEE SHEET 24

GRAND CENTRAL



2205 North 20th Street, Tampa, FL 33605  
 800.643.4336 • 813.223.9500 • F 813.223.0009 • www.stantec.com  
 Stantec Consulting Services, Inc. • CA# 27013 • FL Lic. # LC-26000314

HAMDREZZA SAHEBKAR, P.E.  
 FLORIDA LICENSE NO. 39991

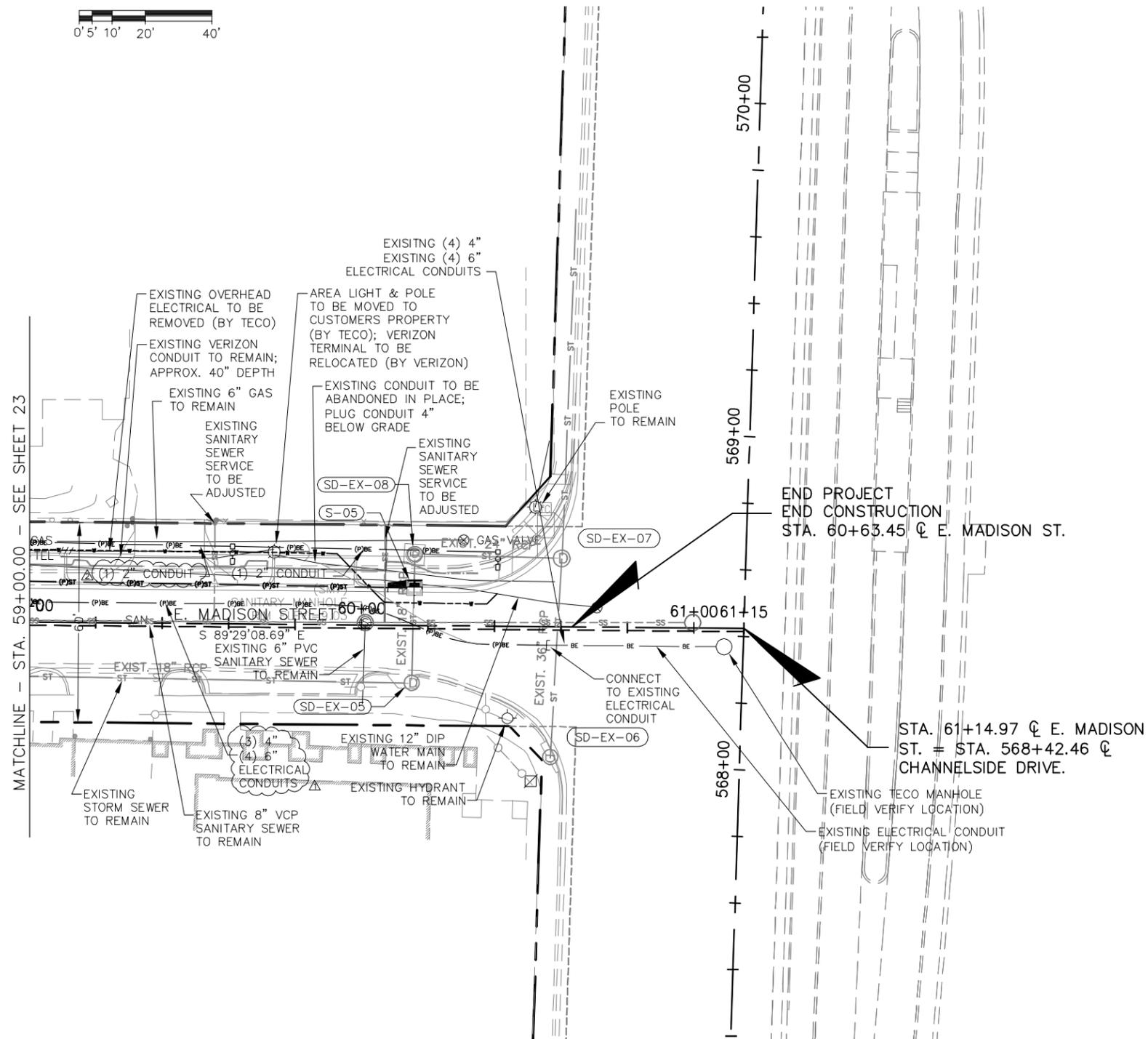
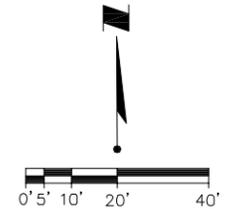
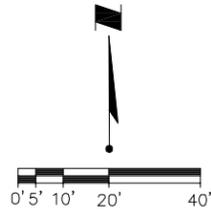
Drawn: RND	Date: 11/22/2013	▲			
Designed: RND	Date: 11/22/2013	▲			
Checked: JDJ	Date: 11/22/2013	▲			
Reviewed: HS	Date: 11/22/2013	▲			
Approved:	Date:	▲	140109	ADDITION OF STREET LIGHT CONDUITS	RND
Approved:	Date:	▲	140109	RECONFIGURATION OF TECO BURIED ELEC LINES	RND
			No:	Revision:	By:



CITY OF TAMPA  
 ECONOMIC AND URBAN  
 DEVELOPMENT DEPARTMENT

E. MADISON STREET IMPROVEMENTS  
 UTILITY ADJUSTMENT (2 OF 3)

Field Book:	
Atlas Sheet:	
File No.	Index No.
Job No. 215611523	215611523-006
Scale: N/A	
SHEET 25	



**LEGEND**

⊗ PROPOSED TECO LIGHT POLE

**NOTES**

1. TECO MANHOLES & CONDUIT TO BE PROVIDED BY TECO & INSTALLED BY CONTRACTOR.
2. FIELD ADJUST LOCATION OF MANHOLE TO AVOID CONFLICT WITH EXISTING UTILITIES. COORDINATE WITH TECO AND ENGINEER FOR FINAL LOCATION.
3. CONDUITS TO BE ABANDONED IN PLACE SHALL BE CAPPED AT END. CONDUIT SHALL NOT BE GROUTED.
4. SEE HARDSCAPE PLANS FOR PAVER REPLACEMENT DETAIL AND INFORMATION.
5. COORDINATE WITH TAMPA-HILLSBOROUGH EXPRESSWAY AUTHORITY PRIOR TO COMMENCEMENT OF CONSTRUCTION ALONG MERIDIAN AVENUE RIGHT-OF-WAY.

**CITY OF TAMPA WATER DEPARTMENT NOTES**

- EXERCISE CAUTION WHEN WORKING NEAR VALVE BOXES, METERS, AND HYDRANTS. IF PROBLEMS OCCUR, CALL CITY OF TAMPA TRIAGE CENTER AT 274-7400.
- PLEASE CONTACT SUNSHINE STATE ONE CALL OF FLORIDA AT 1-800-432-4770 AT LEAST 48 HOURS PRIOR TO CONSTRUCTION TO LOCATE THE CITY OF TAMPA WATERMANS.



800.643.4336 • 2205 North 20th Street, Tampa, FL 33605 • www.stantec.com  
 Stantec Consulting Services, Inc. • CA# 27013 • FL Lic. # LC-26000314

HAMDREZA SAHEBKAR, P.E.  
 FLORIDA LICENSE NO. 39991

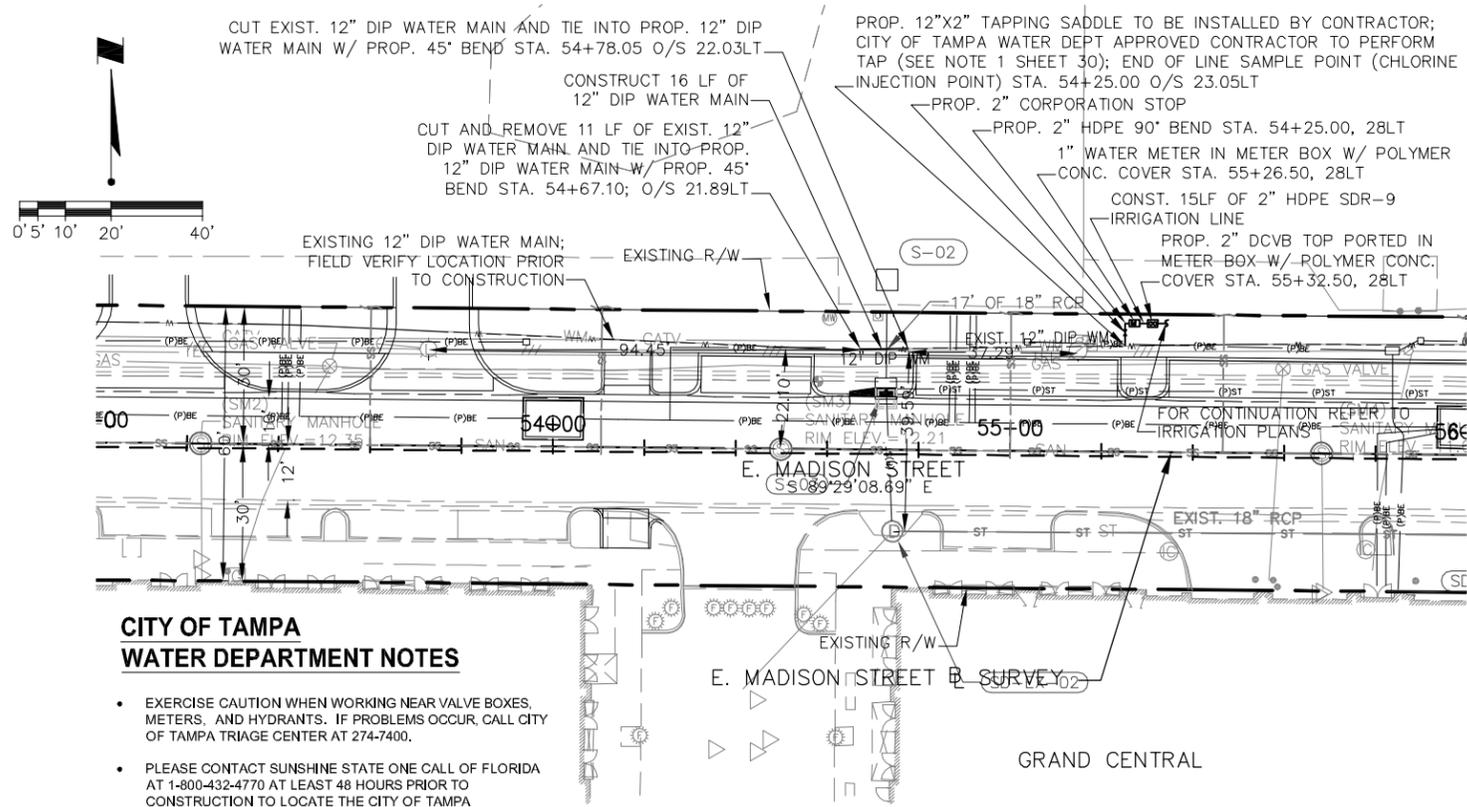
Drawn: RND	Date: 11/22/2013	▲			
Designed: RND	Date: 11/22/2013	▲			
Checked: JDJ	Date: 11/22/2013	▲			
Reviewed: HS	Date: 11/22/2013	▲			
Approved:	Date:	▲	140109	ADDITION OF STREET LIGHT CONDUITS	RND
Approved:	Date:	▲	140109	RECONFIGURATION OF TECO BURIED ELEC LINES	RND
		No:	Date:	Revision:	By:



CITY OF TAMPA  
 ECONOMIC AND URBAN  
 DEVELOPMENT DEPARTMENT

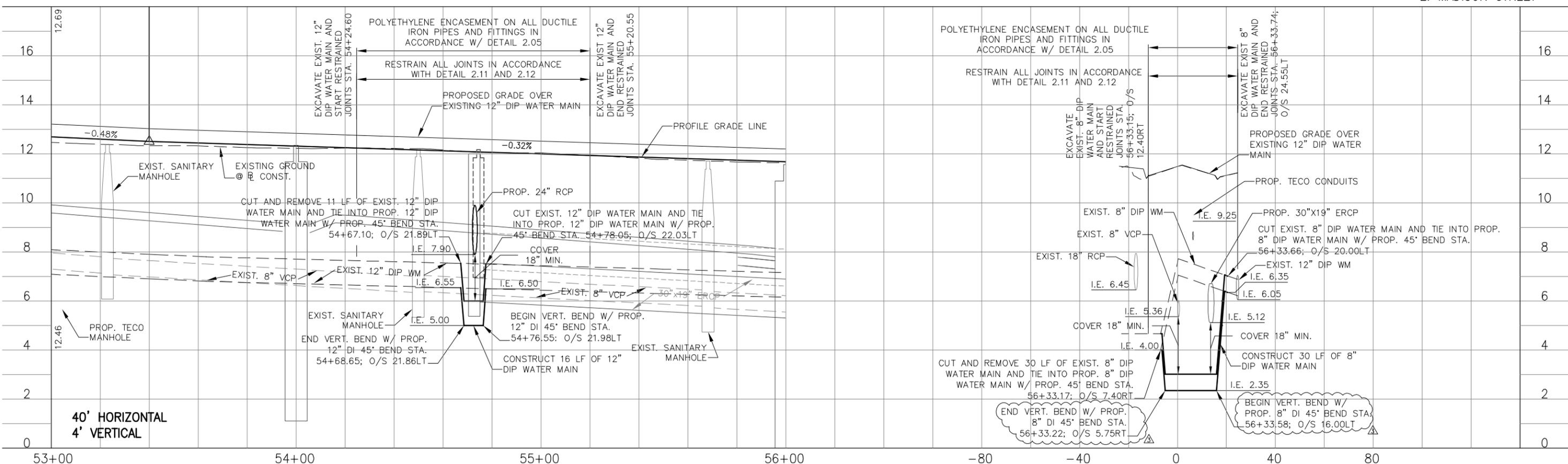
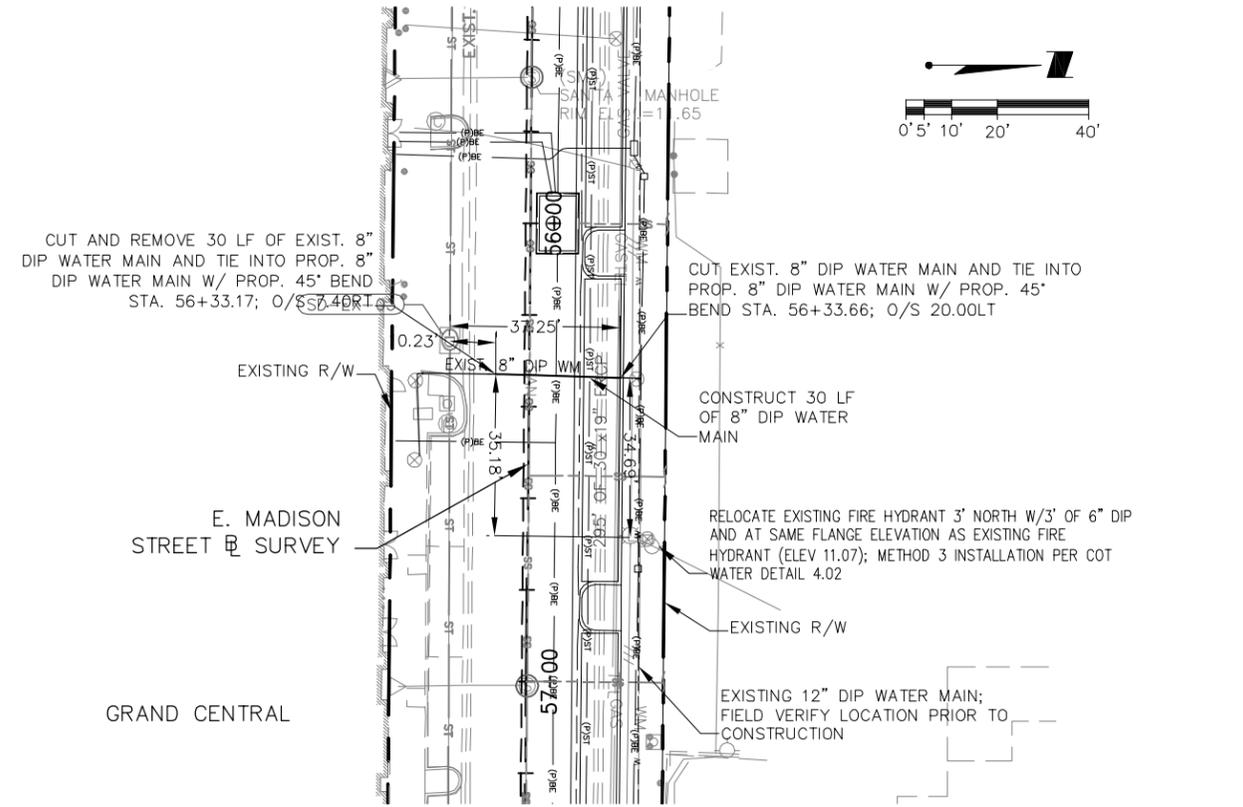
E. MADISON STREET IMPROVEMENTS  
 UTILITY ADJUSTMENT (3 OF 3)

Field Book:	
Atlas Sheet:	
File No.	Index No.
Job No. 215611523	215611523-006
Scale: N/A	
SHEET 26	



**CITY OF TAMPA  
WATER DEPARTMENT NOTES**

- EXERCISE CAUTION WHEN WORKING NEAR VALVE BOXES, METERS, AND HYDRANTS. IF PROBLEMS OCCUR, CALL CITY OF TAMPA TRIAGE CENTER AT 274-7400.
- PLEASE CONTACT SUNSHINE STATE ONE CALL OF FLORIDA AT 1-800-432-4770 AT LEAST 48 HOURS PRIOR TO CONSTRUCTION TO LOCATE THE CITY OF TAMPA WATERMANS.



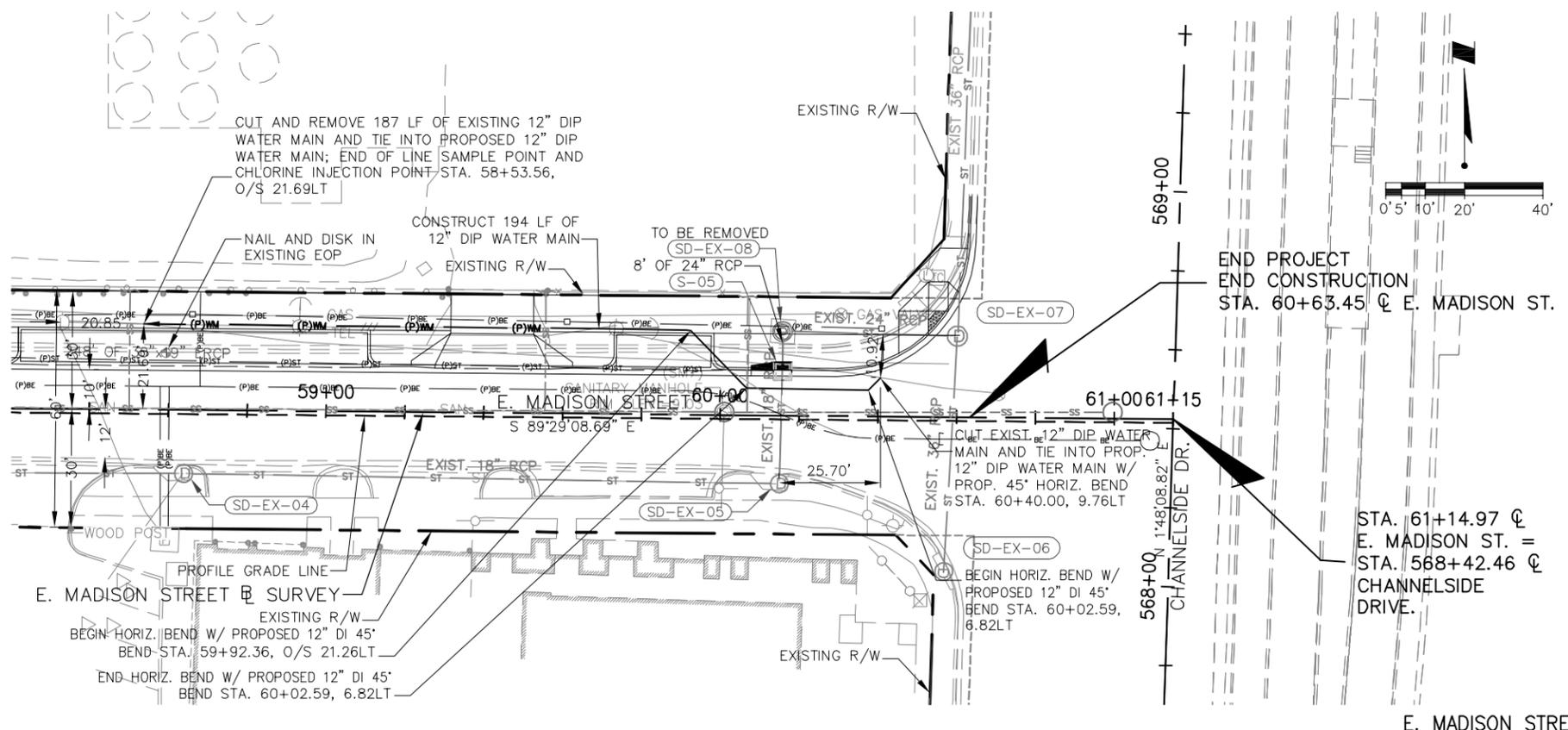
Drawn: RND	Date: 11/22/2013		
Designed: RND	Date: 11/22/2013		
Checked: JDJ	Date: 11/22/2013		
Reviewed: HS	Date: 11/22/2013		
Approved:	Date:		
Approved:	Date:	No: 140109	Revision: REVISED CALL-OUTS FOR 8" WATER LINE
			By: RND



CITY OF TAMPA  
ECONOMIC AND URBAN  
DEVELOPMENT DEPARTMENT

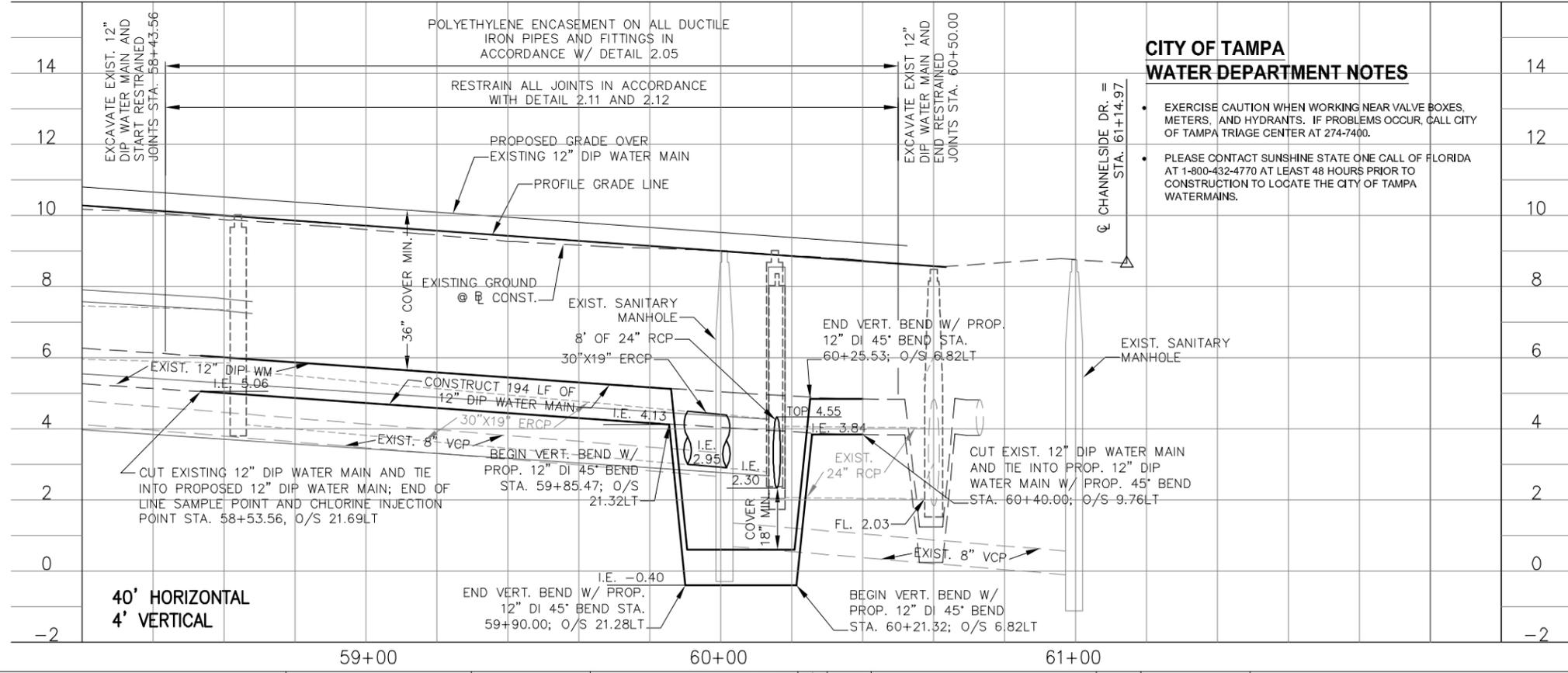
E. MADISON STREET IMPROVEMENTS  
WATER MAIN RELOCATION (1 OF 2)

Field Book:	
Atlas Sheet:	
File No.	Index No.
Job No. 215611523	215611523-019
Scale: N/A	
SHEET 27	



- CITY OF TAMPA WATER SYSTEM NOTES:**
1. WATER SERVICE TO BE PROVIDED BY CITY OF TAMPA WATER DEPARTMENT.
  2. ALL WATER WORK FOR THE CITY SHALL BE PERFORMED IN ACCORDANCE WITH THE TAMPA WATER DEPARTMENT TECHNICAL MANUAL, LATEST EDITION, AND WITH ALL CONSTRUCTION DETAILS THEREIN. THE DETAILS AND STANDARDS DESCRIBED ABOVE SHALL BE CONSIDERED TO BE PART OF THE CONTRACT DOCUMENTS FOR THIS PROJECT.
  3. PRIOR TO PRE-CONSTRUCTION MEETING WITH WATER DEPARTMENT, CONTRACTOR SHALL OBTAIN THE 2002 "TAMPA WATER DEPARTMENT TECHNICAL MANUAL". ALL DEVELOPER INSTALLED CONSTRUCTION MATERIALS AND WORKMANSHIP ARE TO CONFORM WITH THE LATEST CITY OF TAMPA SPECIFICATIONS, AS OUTLINED IN THE TECHNICAL MANUAL.
  4. CONSTRUCTION OF ANY WATER INSTALLATIONS TO BE CITY-OWNED SHALL BE COORDINATED WITH THE WATER DEPARTMENT PRIOR TO THE START OF CONSTRUCTION. CONTRACTOR TO CONTACT TWO TECHNICAL SERVICES @ 622-1911 ABOUT SCHEDULING A PRE-CONSTRUCTION MEETING WITH THE CITY, FOR REVIEW OF INSTALLATION TECHNIQUES AND PROCEDURES, A MINIMUM OF 10 WORKING DAYS PRIOR TO PLANNED CONSTRUCTION.
  5. ALL ELEVATIONS ARE BASED ON NAVD 1988 DATUM UNLESS NOTED OTHERWISE. STATIONING OF THE WATER MAIN AND FITTINGS AS SHOWN HEREON REFERS TO CENTERLINE OF ROADWAY UNLESS OTHERWISE INDICATED.
  6. ALL WATER MAINS SHALL HAVE A MINIMUM COVER OF 36 INCHES UNLESS OTHERWISE NOTED. WATER MAIN SHALL BE LOCATED 5' OFF EDGE OF PAVEMENT UNLESS OTHERWISE INDICATED.
  7. ALL WATER MAINS SHALL BE CONSTRUCTED IN A MANNER SUCH AS TO MAINTAIN A MINIMUM OF THREE (3) FEET HORIZONTAL SEPARATION FROM OTHER UTILITIES, EXCEPT STORM, SANITARY, AND GAS.
  8. IN ACCORDANCE WITH COT WATER DEPARTMENT STANDARD DETAIL 2.06, A SHOCK PAD SHALL BE INSTALLED OVER THE WATER MAIN WHENEVER THE DEPTH OF COVER MUST BE LESS THAN 30". WATER MAIN INSTALLATION WITH <36" COVER MUST BE APPROVED BY THE CITY OF TAMPA WATER DEPARTMENT.
  9. ALL WATER MAIN MATERIALS AND INSTALLATIONS ARE TO BE IN ACCORDANCE WITH THE CITY OF TAMPA SPECIFICATIONS. ALL DUCTILE IRON PIPE (DIP) SHALL BE MANUFACTURED IN ACCORDANCE WITH AWWA STANDARD C-151/A21.51. PIPE SHALL BE LINED WITH A STANDARD THICKNESS CEMENT-MORTAR LINING AND SEAL COATED IN ACCORDANCE WITH THE LATEST EDITION OF AWWA C104/A21.4 AND NSF 61. PIPE SHALL BE PRESSURE CLASS 350. ALL DUCTILE IRON PIPE JOINTS SHALL BE PUSH-ON JOINT OR MECHANICAL JOINT CONFORMING TO AWWA STANDARD C-111/A21.11.
  10. ALL DUCTILE IRON PIPE JOINTS SHALL BE PUSH-ON JOINT OR MECHANICAL JOINT CONFORMING TO AWWA STANDARD C-111/A21.11.
  11. ALL WATER MAIN FITTINGS SHALL BE DUCTILE IRON AND MECHANICAL JOINT. WEDGE-ACTION MJ RESTRAINTS SUCH AS EBBA MEGA-LUG OR APPROVED EQUAL, SHALL BE INSTALLED TO JOIN THE FITTINGS TO THE PIPE.
  12. NO CONCRETE THRUST BLOCKS ARE TO BE USED FOR THRUST RESTRAINT. RESTRAINT OF PUSH-ON DUCTILE IRON PIPE JOINTS, OTHER THAN FOR FITTINGS, SHALL BE IN ACCORDANCE WITH THE RESTRAINT TABLES SHOWN IN THE DETAIL SHEETS, AND AS INDICATED BY THE ENGINEER ON THE PLANS. PUSH-ON PIPE JOINTS SHALL BE RESTRAINED WITH APPROVED GASKET-TYPE (GRIPPER) RESTRAINT DEVICES SUCH AS AMERICAN "FAST-GRIP" OR U.S. PIPE "FIELD-LOK" GASKETS.
  13. BENDS SHALL BE INSTALLED ON DIP WATER MAIN AS NECESSARY, TO MAINTAIN PROPER ALIGNMENT. DIP JOINT DEFLECTION SHALL BE IN ACCORDANCE WITH AWWA C-600, LATEST EDITION, EXCEPT DEFLECTION ALLOWED SHALL BE LESS THAN 80% OF THE DEFLECTION VALUES GIVEN IN THE AWWA DEFLECTION TABLES.
  14. FIRE HYDRANT AND GATE VALVE ASSEMBLIES SHALL CONSIST OF ALL PIPE, VALVES, TEES, FITTINGS AND ANY AND ALL OTHER APPURTENANCES COMPRISING A COMPLETE, WORKING UNIT AS REQUIRED BY THE CITY OF TAMPA SPECIFICATIONS. FIRE HYDRANTS SHALL BE 5-1/4" DNS, WITH BOTTOM OF FLANGE ELEVATION TO BE 3"-6" ABOVE FINISHED GRADE. (SEE CITY OF TAMPA STANDARD DETAILS 4.01 AND 4.02).
  15. ALL FIRE HYDRANTS SHALL BE CONSTRUCTED IN A MANNER THAT MAINTAINS AT LEAST SIX (6) FEET OF CLEARANCE BETWEEN ROADWAY BACK OF CURB AND THE HYDRANT.
  16. SANITARY SEWERS, FORCE MAINS AND STORM SEWERS SHOULD CROSS (UNDER) WATER MAINS. SANITARY SEWERS, FORCE MAINS AND STORM SEWERS CROSSING WATER MAINS SHALL BE LAID TO PROVIDE A MINIMUM VERTICAL CLEARANCE OF 12 INCHES BETWEEN THE INVERT OF THE UPPER PIPE (WATER MAIN) AND THE CROWN OF THE LOWER PIPE (STORM OR SANITARY).
  17. WHEN SANITARY SEWERS, FORCE MAINS AND STORM SEWERS MUST CROSS A WATER MAIN WITH LESS THAN 12 INCHES VERTICAL DISTANCE, BOTH THE SEWER AND WATER MAIN SHALL BE CONSTRUCTED OF DUCTILE IRON PIPE (DIP) AT THE CROSSING (SANITARY SEWER MAIN MAY BE CONSTRUCTED OF PVC MEETING AWWA C-900 STANDARDS; DIP IS NOT REQUIRED FOR STORM SEWERS IF IT IS NOT AVAILABLE IN THE SIZE PROPOSED). SUFFICIENT LENGTHS OF DIP MUST BE USED TO PROVIDE A MINIMUM SEPARATION OF 10 FEET BETWEEN ANY TWO JOINTS. ALL JOINTS ON THE WATER MAIN WITHIN 20 FEET OF THE CROSSING MUST BE LEAK FREE AND MECHANICALLY RESTRAINED. A MINIMUM VERTICAL CLEARANCE OF 6 INCHES MUST BE MAINTAINED AT THE CROSSING.
  18. WHERE THERE IS NO ALTERNATIVE TO SEWER PIPES CROSSING (OVER) A WATER MAIN, THE CRITERIA FOR MINIMUM SEPARATION OF 12 INCHES BETWEEN LINES AND 10 FEET BETWEEN JOINTS SHALL BE REQUIRED.
  19. ALL CROSSINGS SHALL BE ARRANGED SO THAT THE JOINTS OF THE CROSSING PIPES ARE EQUIDISTANT FROM THE POINT OF CROSSING (PIPES CENTERED ON THE CROSSING).
  20. A MINIMUM 6' HORIZONTAL SEPARATION SHALL BE MAINTAINED BETWEEN ANY TYPE OF SEWER/STORM AND WATER MAIN IN PARALLEL INSTALLATIONS. IN CASES WHERE IT IS NOT POSSIBLE TO MAINTAIN A 10 FOOT HORIZONTAL SEPARATION BETWEEN ANY TYPE OF PARALLEL SEWER AND WATER MAIN, THE WATER MAIN MUST BE LAID IN A SEPARATE TRENCH OR ON AN UNDISTURBED EARTH SHELF LOCATED ON ONE SIDE OF THE SEWER OR FORCE MAIN AT SUCH AN ELEVATION THAT THE BOTTOM OF THE WATER MAIN IS AT LEAST 12 INCHES ABOVE THE TOP OF THE SEWER.
  21. WHERE IT IS NOT POSSIBLE TO MAINTAIN A VERTICAL DISTANCE OF 12 INCHES OR A HORIZONTAL DISTANCE OF 6 FEET IN PARALLEL INSTALLATIONS, THE WATER MAIN SHALL BE CONSTRUCTED OF DIP AND THE SEWER OR FORCE MAIN SHALL BE CONSTRUCTED OF DIP (IF AVAILABLE IN SIZE PROPOSED) WITH A MINIMUM VERTICAL DISTANCE OF 6 INCHES. THE WATER MAIN SHOULD ALWAYS BE ABOVE THE SEWER. JOINTS ON THE WATER MAIN SHALL BE LOCATED AS FAR APART AS POSSIBLE FROM JOINTS ON THE SEWER OR FORCE MAIN (STAGGERED JOINTS).
  22. IN AREAS OF HIGH GROUND WATER, UNSATISFACTORY SOILS, CROSSING GAS LINES, OR AS SPECIFIED BY THE ENGINEER, THE WATER MAIN AND APPURTENANCES WILL BE INSTALLED IN LOOSE POLYETHYLENE ENCASEMENT NOT LESS THAN 8 MILS THICK IN ACCORDANCE WITH AMERICAN NATIONAL STANDARDS INSTITUTE SPECIFICATION A21.5 AND CITY OF TAMPA STANDARD DETAIL 2.05.
  23. CLEARANCE BETWEEN ALL TREES AND WATER MAINS SHALL MEET CITY OF TAMPA PARKS DEPARTMENT LATEST REQUIREMENTS. NO TREE SHALL BE PLANTED WITHIN 10 FEET OF INSTALLED OR EXISTING WATER MAINS.

E. MADISON STREET



**CITY OF TAMPA WATER DEPARTMENT NOTES**

- EXERCISE CAUTION WHEN WORKING NEAR VALVE BOXES, METERS, AND HYDRANTS. IF PROBLEMS OCCUR, CALL CITY OF TAMPA TRIAGE CENTER AT 274-7400.
- PLEASE CONTACT SUNSHINE STATE ONE CALL OF FLORIDA AT 1-800-432-4770 AT LEAST 48 HOURS PRIOR TO CONSTRUCTION TO LOCATE THE CITY OF TAMPA WATERMANS.

**WATER SYSTEM TESTING REQUIREMENTS FOR WATER FACILITIES CONSTRUCTED FOR THE CITY**

1. ALL COMPONENTS OF THE WATER SYSTEM, INCLUDING FITTINGS, HYDRANTS, CONNECTIONS, AND VALVES SHALL BE PROPERLY PRESSURE TESTED AND ACCEPTED BY THE OWNER'S ENGINEER. PRESSURE TESTS TO BE IN ACCORDANCE WITH WATER DEPARTMENT SPECIFICATIONS. CONTRACTOR TO NOTIFY OWNER'S ENGINEER AND CITY INSPECTOR A MINIMUM OF 3 WORKING DAYS IN ADVANCE OF PERFORMING TESTS.
2. CONTRACTOR SHALL PRESSURE TEST WATER MAINS AT 150 PSI FOR A PERIOD OF 2 HOURS IN ACCORDANCE WITH AWWA C600-87 STANDARDS. THE CONTRACTOR SHALL MAKE ALL NECESSARY APPLICATIONS AND ARRANGEMENTS.
3. CONTRACTOR TO PERFORM CHLORINATION AND COORDINATE BACTERIOLOGICAL SAMPLING WITH THE CITY OF TAMPA CONSTRUCTION INSPECTION SECTION IN ACCORDANCE WITH TAMPA WATER DEPARTMENT TECHNICAL MANUAL AND AWWA SPECIFICATION C651. CONTRACTOR TO OBTAIN SAMPLE CLEARANCE ON DOMESTIC WATER SYSTEM. ALL TEST POINTS AND CHLORINATION POINTS PIPING SHALL BE COMPLETELY REMOVED PRIOR TO FINAL ACCEPTANCE. THE CORPORATION STOP SHALL BE REMOVED AND THE MAIN PLUGGED AFTER OPERATION (SEE CITY OF TAMPA STANDARD DETAIL 2.17).

<p>800.643.4336 • 2205 North 20th Street, Tampa, FL 33605          813.223.9500 • F 813.223.0109 • www.stantec.com          Stantec Consulting Services, Inc. • CA# 27013 • FL Lic. # LC-26000314</p>	Drawn: RND	Date: 11/22/2013	▲
	Designed: RND	Date: 11/22/2013	▲
	Checked: JDJ	Date: 11/22/2013	▲
	Reviewed: HS	Date: 11/22/2013	▲
	Approved:	Date:	▲
	Approved:	Date:	▲

No:	140109	REVISD CALL-OUTS FOR 8" WATER LINE	RND
Date:		Revision:	By:

CITY OF TAMPA  
ECONOMIC AND URBAN  
DEVELOPMENT DEPARTMENT

Field Book:	
Atlas Sheet:	
File No.	Index No.
Job No. 215611523	215611523-019
Scale: N/A	
SHEET 28	

E. MADISON STREET IMPROVEMENTS  
WATER MAIN RELOCATION (2 OF 2)