

COMPONENTS OF CONTRACT PLANS SET

ROADWAY PLANS  
SIGNING AND PAVEMENT MARKING PLANS  
SIGNALIZATION PLANS

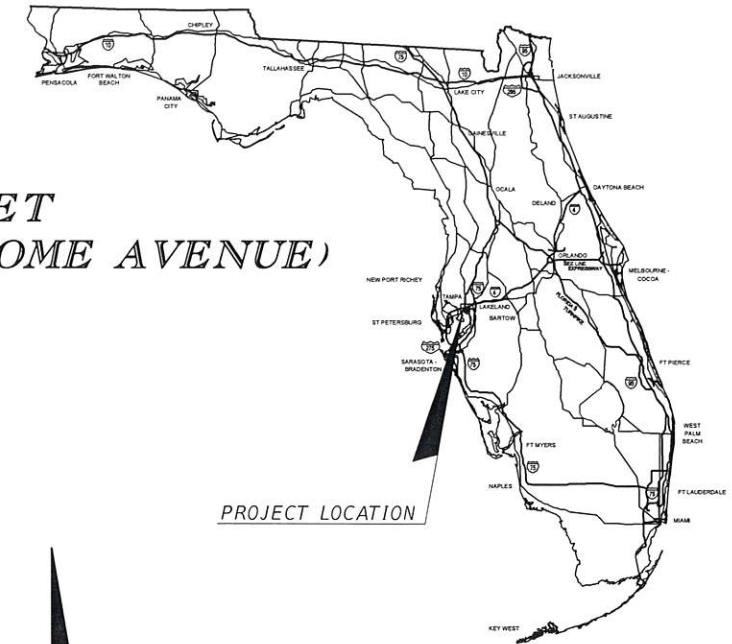
**CITY OF TAMPA**  
**CONTRACT PLANS**

**BAYSHORE BOULEVARD**  
**FROM WEST GANDY BOULEVARD TO WEST PLATT STREET**  
**(PHASE II - FROM SOUTH OF SOUTH HOWARD AVENUE TO SOUTH ROME AVENUE)**  
FINANCIAL PROJECT ID 413092-2-58-01

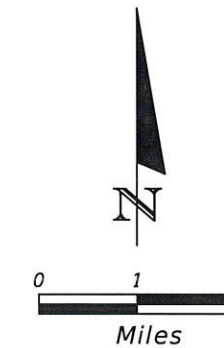
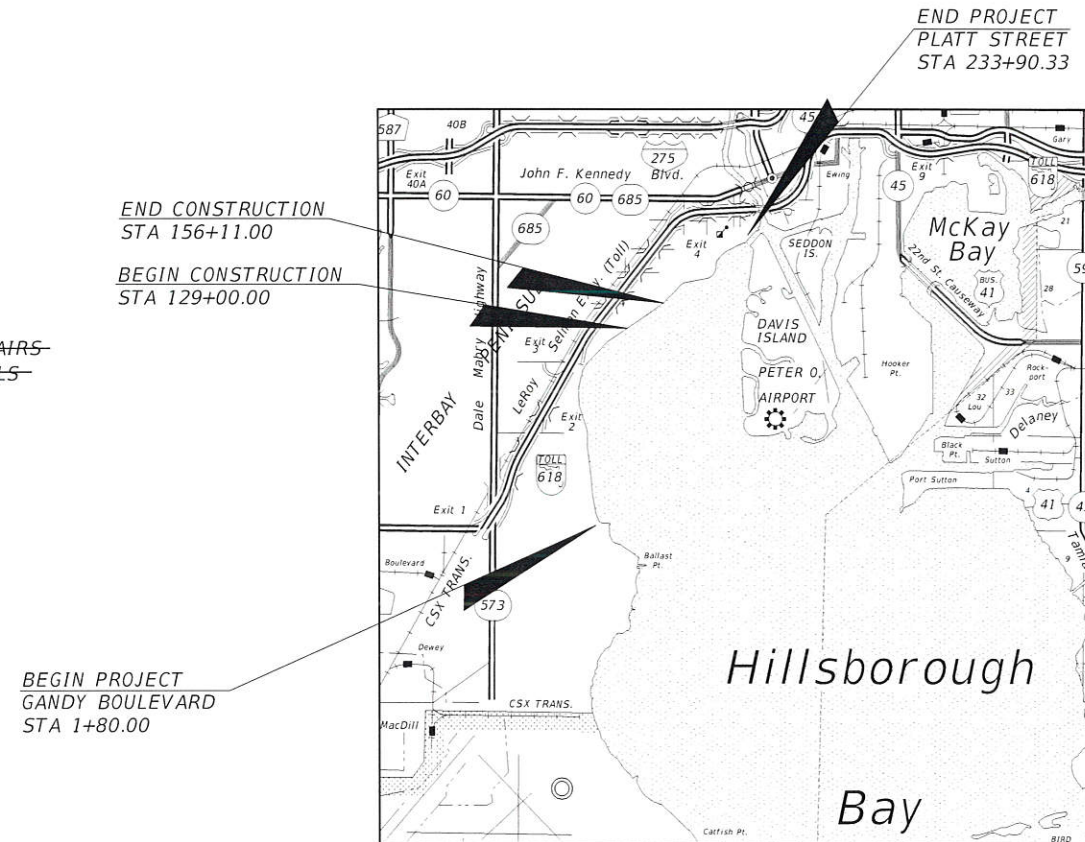
A DETAILED INDEX APPEARS ON THE  
KEY SHEET OF EACH COMPONENT

INDEX OF ROADWAY PLANS

SHEET NO.	SHEET DESCRIPTION
1	KEY SHEET
2	SUMMARY OF PAY ITEMS
3	GENERAL NOTES
4	SUMMARY OF QUANTITIES
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6 - 8	PROJECT LAYOUT
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32 - 38	PLAN SHEET
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54	SPECIAL DETAIL SHEET
55 - 69	CROSS SECTIONS
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73 - 87	SLAB INVENTORY AND SLAB DETAILS
88	TRAFFIC CONTROL NOTES
89 - 110	UTILITY PLAN
111 - 116	UTILITY PLAN
117 - 130	UTILITY PLAN



PROJECT LOCATION



SHOP DRAWINGS  
TO BE SUBMITTED TO:  
VOLKERT, INC.  
1408 N. WESTSHORE BLVD.  
SUITE 600  
TAMPA, FLORIDA 33607  
TELEPHONE: (813) 875-1365  
FAX: (813) 874-7656  
ENGINEERING BUSINESS NO. 00004641

PLANS PREPARED BY:  
VOLKERT, INC.  
1408 N. WESTSHORE BLVD.  
SUITE 600  
TAMPA, FLORIDA 33607  
TELEPHONE: (813) 875-1365  
FAX: (813) 874-7656  
ENGINEERING BUSINESS NO. 00004641

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

GOVERNING STANDARDS AND SPECIFICATIONS:  
FLORIDA DEPARTMENT OF TRANSPORTATION,  
DESIGN STANDARDS DATED 2013, AND DIVISION  
II AND III OF THE FLORIDA DEPARTMENT OF  
TRANSPORTATION STANDARD SPECIFICATIONS  
FOR ROAD AND BRIDGE CONSTRUCTION DATED  
2013, AS AMENDED BY CONTRACT DOCUMENTS.

LENGTH OF PROJECT		
	LINEAR FEET	MILES
ROADWAY	2,711.00	0.513
BRIDGES	0.00	0.00
NET LENGTH OF PROJECT	2,711.00	0.513
EXCEPTIONS	20,499.33	3.883
GROSS LENGTH OF PROJECT	23,210.33	4.396

PROJECT MANAGER: MILTON MARTINEZ, P.E.

ROADWAY PLANS  
ENGINEER OF RECORD: MARK A. GILLETTE, P.E.  
P.E. NO.: 48085

*Mark A. Gillette*  
413114

SHEET  
NO.


1

Pay Item	Description	Total Quantity	Unit
101-1	MOBILIZATION	1	LS
102-1	MAINTENANCE OF TRAFFIC	1	LS
104-10-3	SEDIMENT BARRIER	2711	LF
104-18	INLET PROTECTION SYSTEM	19	EA
110-1-1	CLEARING & GRUBBING	1	LS
120-1	EXCAVATION	258	CY
120-6	EMBANKMENT	655	CY
160-4	STABILIZATION TYPE B	622	SY
285-709	BASE OPTION (BASE GROUP 09)	622	SY
327-70-5	MILLING EXISTING ASPHALT PAVEMENT (2" AVG. DEPTH)	5830	SY
334-1-13	SUPERPAVE ASPHALTIC CONCRETE (TRAFFIC C)	102.6	TN
337-7-73	ASPHALTIC CONCRETE FRIC. COURSE (TRAFFIC C) (FC-9.5) (PG 76-22) (ARB)	34.2	TN
430-174-101	PIPE CULVERT, OPT MATL, ROUND, 0-24"	8	LF
520-2-4	CONCRETE CURB (TYPE D)	110	LF
522-1	CONCRETE SIDEWALK (4" THICK)	220	SY
527-1	DETECTABLE WARNING ON EXISTING WALK SURFACE	10	EA
570-1-2	PERFORMANCE TURF SOD	602	SY
SP-02	RESET GRANITE CURBING	3436	LF
SP-03A	CURB INLET (CITY OF TAMPA TYPE 1) Regular	1	EA
SP-03A	CURB INLET (CITY OF TAMPA TYPE 1) J BOTTOM 6' ROUND	1	EA
SP-2.14	VIDEO TAPE PROJECT	1	LS
SP-10.02.1	TREE REMOVAL (5" TO 12" DIAMETER)	2	EA

PAY ITEM NOTES

- 110-1-1 SAWCUT AND THE REMOVAL OF BASE MATERIALS UNDER PROPOSED NEW GRASS MEDIAN IS INCLUDED IN THE COST OF CLEARING AND GRUBBING.
- 102-1 THE REMOVAL OF ALL EXISTING PAVEMENT MARKINGS TO BE PAID FOR UNDER THIS PAY ITEM.

*Mark A. Gillette*  
4/3/14

REVISIONS NO. DATE DESCRIPTION APPROVED				 <b>CITY OF TAMPA</b> <b>TRANSPORTATION DIVISION</b> 306 E. JACKSON STREET TAMPA, FL 33602	PREPARED BY: <b>Volkert, Inc.</b> Certificate of Authorization No. 4641 Mark A. Gillette, PE 48085 1408 N. Westshore Boulevard, Suite 600 Tampa, Florida 33607 Phone: 813.875.1365 www.volkert.com	NAME DATE APPROVED BY:		BAYSHORE PHASE II: FROM S. HOWARD AVE. TO S. ROME AVE.	PROJECT NO. 872900	SHEET NO. 2
						DESIGNED BY: JRT 10/17/13 DRAWN BY: JRT 10/17/13 CHECKED BY: MAG 10/17/13 SUPERVISED BY: Mark A. Gillette, P.E.				

GENERAL NOTES:

1. THE BENCHMARK ELEVATIONS SHOWN ON THE PLANS DEPICT THE NORTH GEODETIC VERTICAL DATUM OF 1929 (NGVD 29). THE EXISTING AND PROPOSED ELEVATION DATA ON THE PLAN SET IS BASED ON NGVD 29.
2. EXISTING DRAINAGE STRUCTURES WITHIN CONSTRUCTION LIMITS SHALL REMAIN UNLESS OTHERWISE NOTED.
3. SPECIAL ATTENTION IS DIRECTED TO THE FACT THAT PORTIONS OF SOME DRAINAGE STRUCTURES EXTEND INTO THE STABILIZED PORTION OF THE ROADBED AND EXTREME CAUTION WILL BE NECESSARY IN STABILIZATION OPERATIONS AT THESE LOCATIONS.
4. ANY PUBLIC LAND CORNER WITHIN THE LIMITS OF CONSTRUCTION IS TO BE PROTECTED. IF A CORNER MONUMENT IS IN DANGER OF BEING DESTROYED AND HAS NOT BEEN PROPERLY REFERENCED, THE ENGINEER SHALL NOTIFY THE CITY OF TAMPA SURVEYOR, WITHOUT DELAY, BY TELEPHONE.
5. AS DIRECTED BY CITY OF TAMPA THE STANDARD FDOT DESIGNS/REPAIRS HAVE BEEN IDENTIFIED FOR THE PIPE LININGS AND PAVEMENT RESTORATIONS. AT THE TIME OF CONSTRUCTION, THE CITY OF TAMPA AND THE CONTRACTOR MAY ELECT TO EVALUATE ALTERNATE AND/OR ADDITIONAL REPAIRS RELATED TO THE PIPE LININGS AND PAVEMENTS REPAIRS. THE ADDITIONAL COSTS ASSOCIATED WITH ALTERNATIVE DESIGNS/REPAIRS SHALL BE AT THE EXPENSE OF THE CITY OF TAMPA.
6. DURING CONSTRUCTION, ANY MANHOLE WITH A TOP ELEVATION OF 1/2" OR MORE ABOVE THE ADJACENT PAVEMENT SHALL HAVE A TEMPORARY ASPHALT APRON CONSTRUCTED AS SHOWN IN INDEX 600.  
  
THE SAME CRITERIA STATED ABOVE SHALL APPLY TO DIFFERENCES IN ELEVATION AT THE BEGINNING OR END OF ANY MILLING ACTIVITIES, AS WELL AS ANY LONGITUDINAL JOINTS WITHIN THE LIMITS OF SIGNALIZED INTERSECTIONS.  
  
ALL OTHER DIFFERENCES IN ELEVATION, AS WELL AS REMOVAL AND PAYMENT FOR APRONS, SHALL BE PER INDEX 600.
7. TRAFFIC SHALL NOT BE ALLOWED ON ANY MILLED SURFACE UNLESS SPECIFICALLY DESIGNATED OTHERWISE. THE CONTRACTOR MAY ONLY MILL THE AMOUNT OF ROADWAY THAT CAN BE REPAVED IN A SINGLE DAY OF OPERATIONS.
8. THE CONTRACTOR SHALL MAINTAIN DRAINAGE DURING CONSTRUCTION OPERATIONS TO ENSURE SAFE VEHICULAR OPERATIONS AS WELL AS TO PROHIBIT ANY UNDUE IMPACT TO OFF-SITE DRAINAGE OR OTHER ENVIRONMENTAL CONCERNS.
9. THE CONTRACTOR IS RESPONSIBLE FOR ALL UTILITY COORDINATION.

UTILITY NOTES:


1. UTILITY/AGENCY OWNERS:

COMPANIES	CONTACT	TELEPHONE NUMBERS
CITY OF TAMPA WATER DEPT.	JANICE DAVIS	(813) 274-7096
CITY OF TAMPA WASTE WATER	DALLAS PRYOR	(813) 274-8936
TAMPA ELECTRIC COMPANY	ARLENE BROWN	(813) 275-3428
TECO PEOPLES GAS	LUIS CASTELLANOS	(813) 275-3743
VERIZON FLORIDA, INC.	MIKE LITTLE	(813) 627-8345

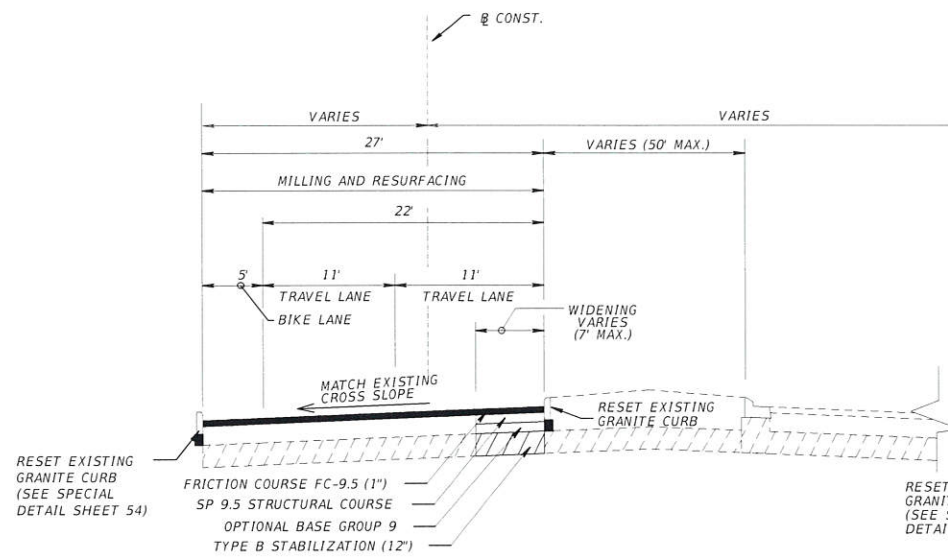
SURVEY/BASELINE NOTES:

1. EXISTING DRAINAGE PIPES, MAST ARMS, AND SIGNAL HEADS HAVE NOT BEEN FIELD VERIFIED, AND LOCATIONS SHOWN IN PLANS ARE APPROXIMATE.
2. THE BASELINE OF CONSTRUCTION HAS BEEN MODIFIED FROM THE PHASE I PLANS, AND STATION EQUATIONS HAVE BEEN ADDED AT THE BEGINNING AND END OF PHASE II CONSTRUCTION.

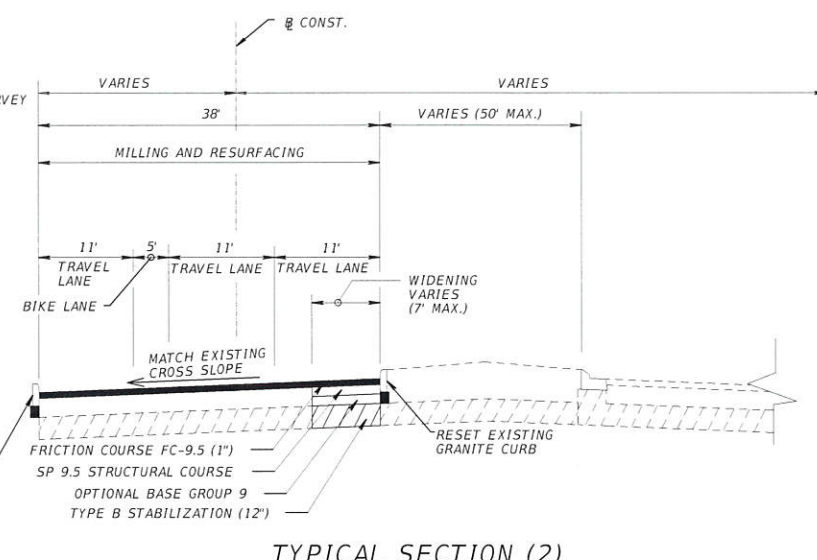
*Mark A. Gillette*  
413114

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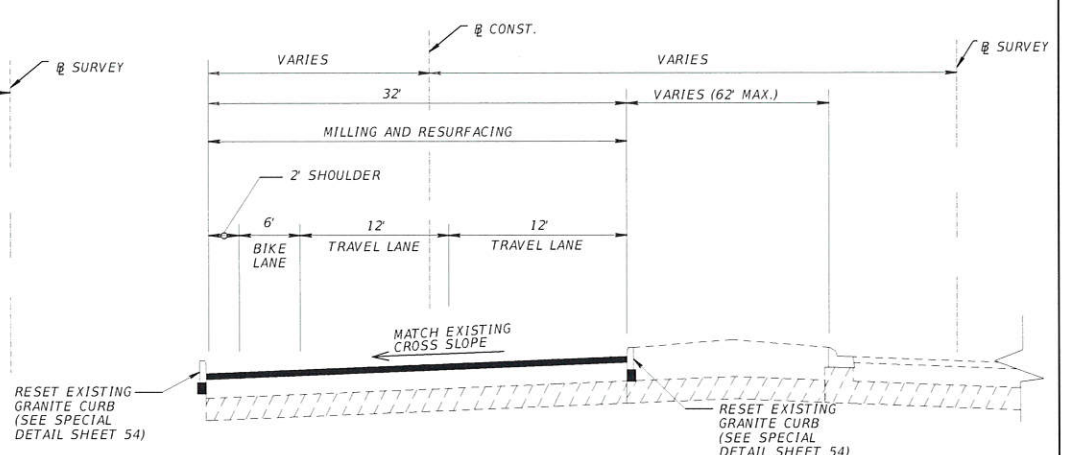




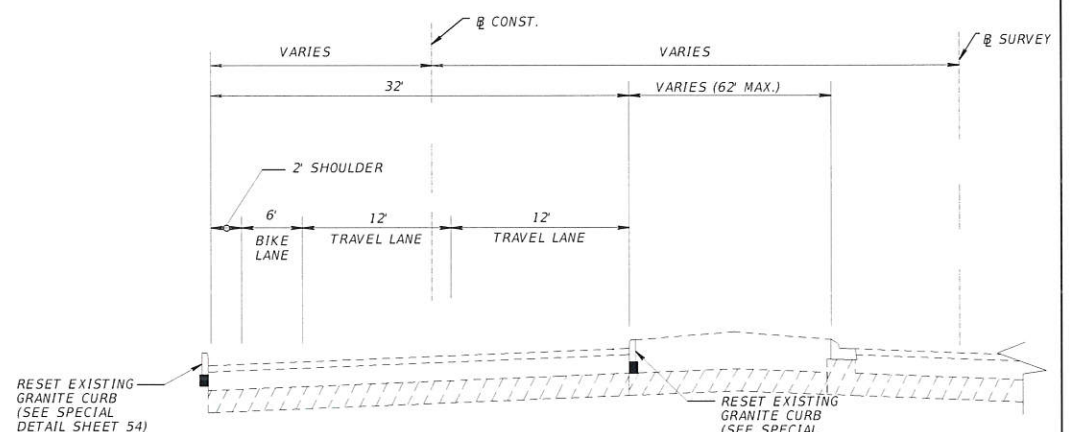
**TYPICAL SECTION (1)**  
**BAYSHORE BOULEVARD**  
 FROM SOUTH OF HOWARD AVE TO HOWARD AVENUE  
 STA. 129+00.00 TO STA. 132+60.00



**TYPICAL SECTION (2)**  
**BAYSHORE BOULEVARD**  
 FROM HOWARD AVENUE TO SOUTH OF NANCE AVENUE  
 STA. 132+60.00 TO 141+50.00



**TYPICAL SECTION (3)**  
**BAYSHORE BOULEVARD**  
 FROM SOUTH OF NANCE AVENUE TO SOUTH OF ALBANY AVENUE  
 STA. 141+50.00 TO STA. 145+02.83



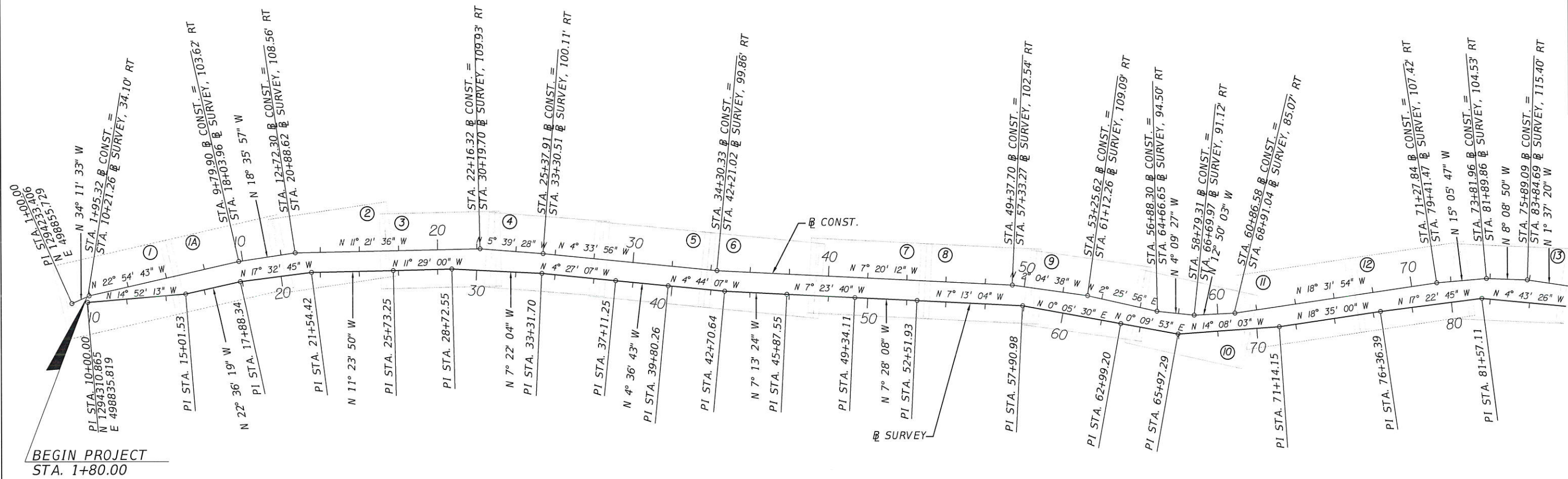
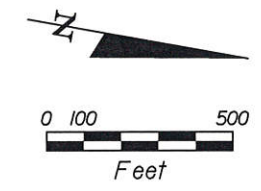
**TYPICAL SECTION (4)**  
**BAYSHORE BOULEVARD**  
 FROM SOUTH OF ALBANY AVENUE TO ROME AVENUE  
 STA. 145+05.77 TO STA. 156+11.00

<b>STANDARD DESIGN</b>
<b>MILL</b>
MILL EXISTING ASPHALT PAVEMENT (2" AVG. DEPTH)
<b>RESURFACE</b>
FRICITION COURSE (TRAFFIC C) (FC-9.5) (PG 76-22) (ARB) (1")
TYPE SP 9.5 STRUCTURAL COURSE (TRAFFIC C) (1")
<b>WIDENING</b>
FRICITION COURSE (TRAFFIC C) (FC-9.5) (PG 76-22) (ARB) (1")
TYPE SP 9.5 STRUCTURAL COURSE (3")
OPTIONAL BASE GROUP 9
TYPE B STABILIZATION (12")

- NOTES:**
- 1) SEE SPECIAL DETAILS SHEET FOR OVERBUILD, FEATHERED MILLING AND CURB RESET DETAILS.
  - 2) SEE OVERBUILD AND RESURFACING DETAIL FOR SECTIONS WITH EXISTING ASPHALT DEPTH LESS THAN 2.25"

*Mark A. Gillette*  
 4/3/14

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SUPERVISED BY: Mark A. Gillette, P.E.																																								
TYPICAL SECTION																																								



NOTES:  
 1. ALL PI'S ON  $\mathcal{B}$  SURVEY ARE SET NAIL & DISK "CITY OF TAMPA D.P.W."

*Mark A. Gillette*  
 4/3/14

REVISIONS			
NO	DATE	DESCRIPTION	APPROVED



**CITY OF TAMPA**  
**TRANSPORTATION DIVISION**  
 306 E. JACKSON STREET  
 TAMPA, FL 33602

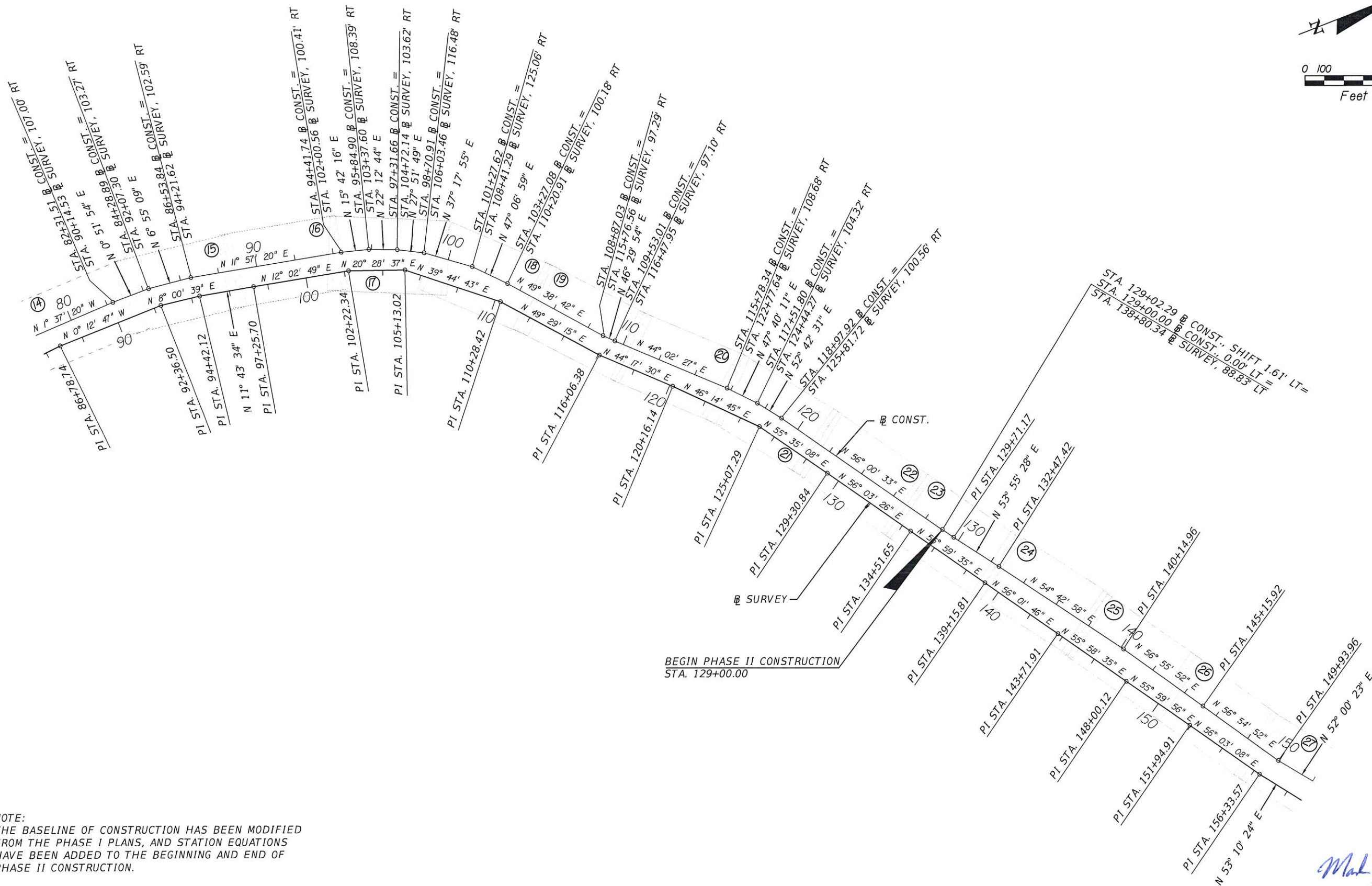
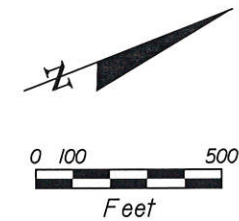
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SUPERVISED BY: Mark A. Gillette, P.E.	

APPROVED BY:  
 Townsend, James  
 3/12/2014 4:52:32 PM

BAYSHORE PHASE II: FROM S. HOWARD AVE. TO S. ROME AVE.  
**PROJECT LAYOUT (1)**

PROJECT NO.	SHEET NO.
872900	6



NOTE:  
 THE BASELINE OF CONSTRUCTION HAS BEEN MODIFIED  
 FROM THE PHASE I PLANS, AND STATION EQUATIONS  
 HAVE BEEN ADDED TO THE BEGINNING AND END OF  
 PHASE II CONSTRUCTION.

*Mark A. Gillette*  
 4/3/14

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**CITY OF TAMPA**  
**TRANSPORTATION DIVISION**  
 306 E. JACKSON STREET  
 TAMPA, FL 33602

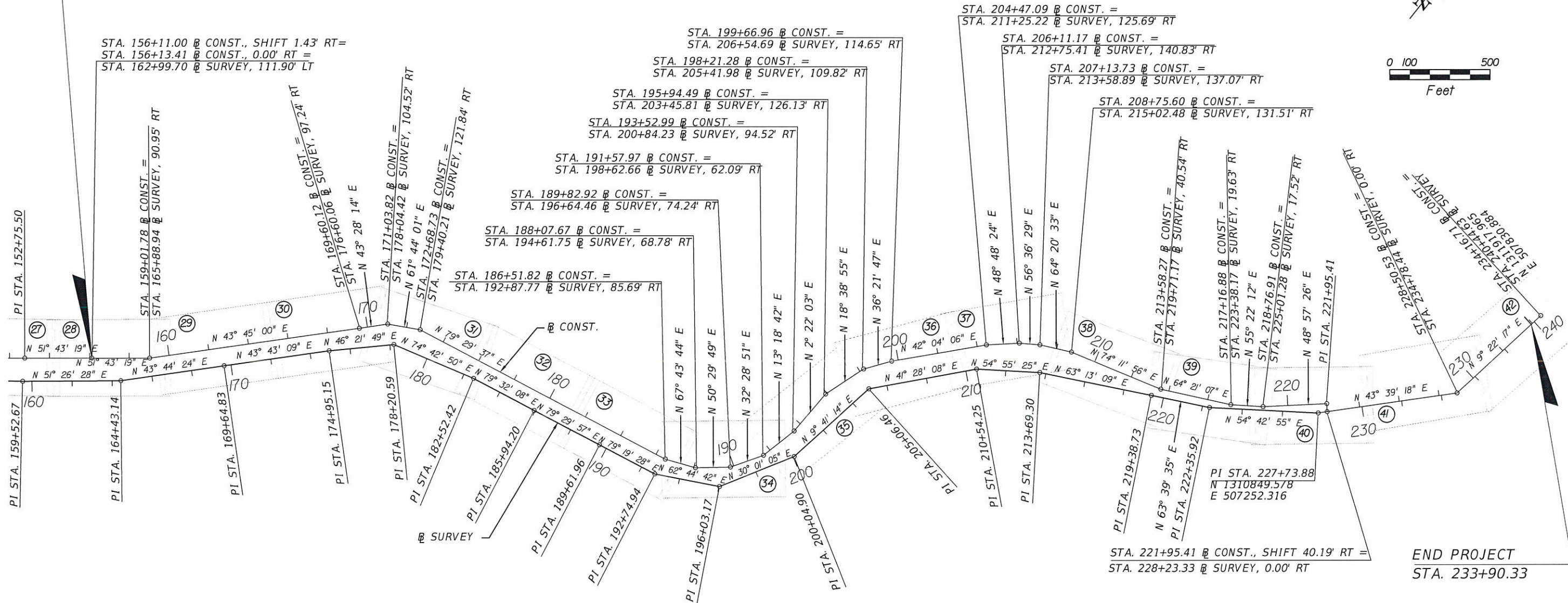
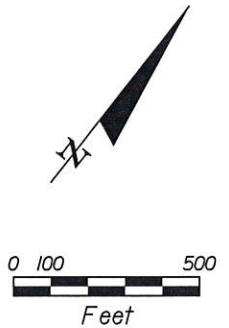
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APPROVED BY:  
 Townsend, James  
 3/12/2014 4:52:38 PM

BAYSHORE PHASE II: FROM S. HOWARD AVE. TO S. ROME AVE.	PROJECT NO. 872900	SHEET NO. 7
<b>PROJECT LAYOUT (2)</b>		

END PHASE I1 CONSTRUCTION  
STA. 156+11.00



NOTE:  
THE BASELINE OF CONSTRUCTION HAS BEEN MODIFIED FROM THE PHASE I PLANS, AND STATION EQUATIONS HAVE BEEN ADDED TO THE BEGINNING AND END OF PHASE II CONSTRUCTION.

*Mark A. Silletta*  
4/3/14

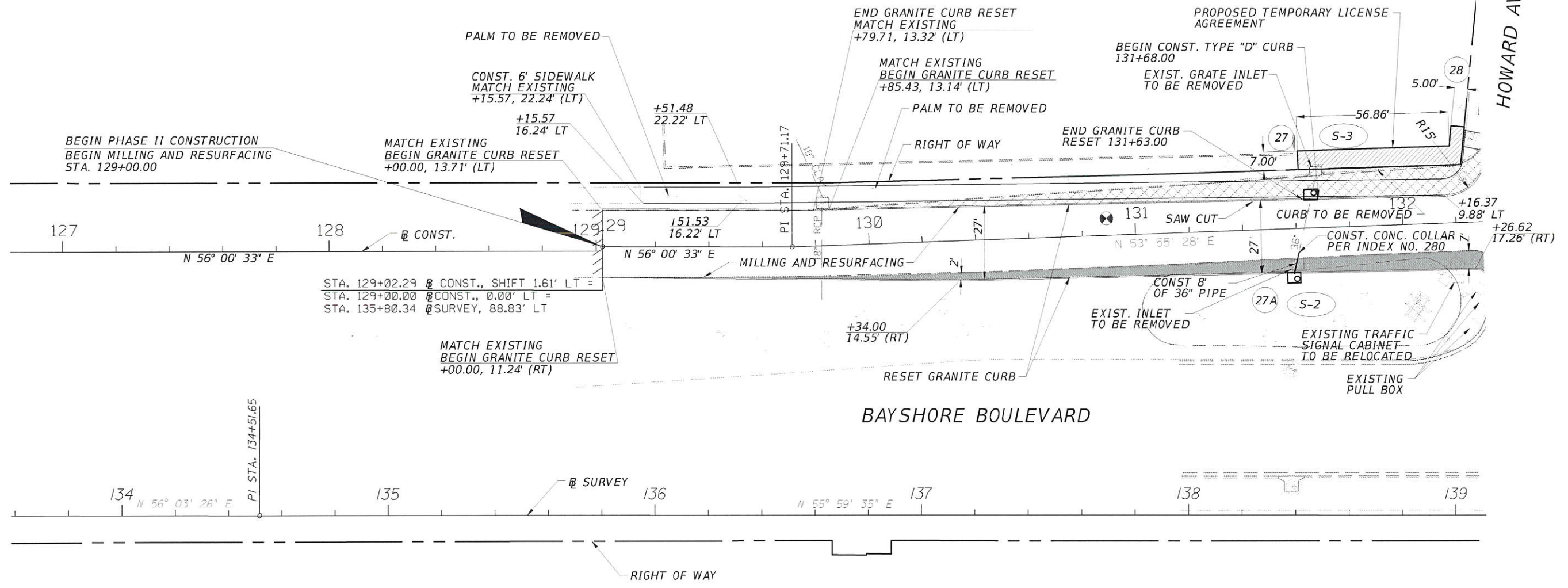
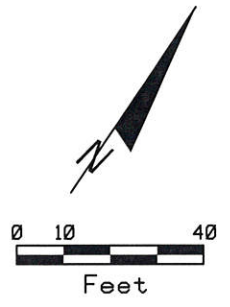
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NO.	DATE	DESCRIPTION	APPROVED			DESIGNED BY:	JRT	10/17/13	CHECKED BY:	MAG		
BAYSHORE PHASE II: FROM S. HOWARD AVE. TO S. ROME AVE.											PROJECT LAYOUT (3)	
3/12/2014 4:52:45 PM											N:\PROJECTS\BayshoreGandyPlatt\AutoCad\roadway\playrd03.dwg	



PAVEMENT INVESTIGATION (REF. CITY OF TAMPA)	
PAVE TYPE 1	PLANT-MIX
THICKNESS 1	4.25"
PAVE TYPE 2	BRICK
THICKNESS 2	n/a

**S-2**  
 STA. 131+58.65, 18.31' RT  
 CONST. CITY OF TAMPA TYPE 1 INLET  
 TOP EL. 7.98  
 CONTRACTOR SHALL VERIFY  
 FLOW LINE ELEV. & PIPE SIZES  
 APPROXIMATE E & W FL EL = -1.78

**S-3**  
 STA. 131+65.88, 12.43' LT  
 CONST. CITY OF TAMPA TYPE 1 INLET, J BOTTOM 6' ROUND  
 CONTRACTOR SHALL VERIFY  
 FLOW LINE ELEV. & PIPE SIZES  
 APPROXIMATE E FL EL = -0.35



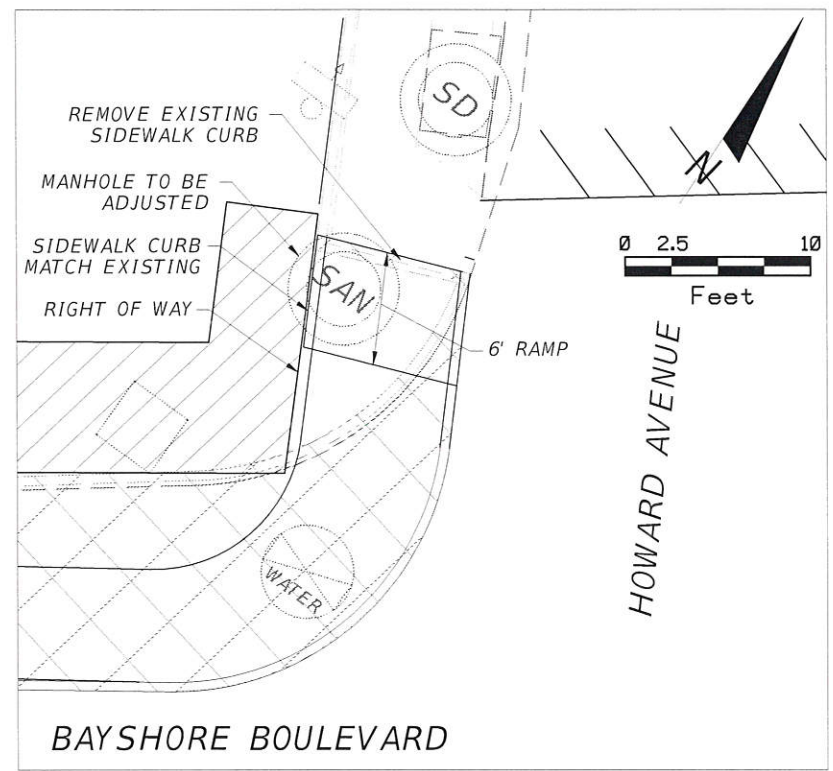
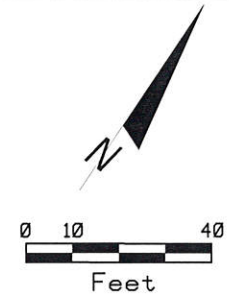
- LEGEND**
- ASPHALT WIDENING
  - APPROXIMATE LOCATION OF PAVEMENT CORING
  - CURB & PAVEMENT TO BE REMOVED

**NOTE:**  
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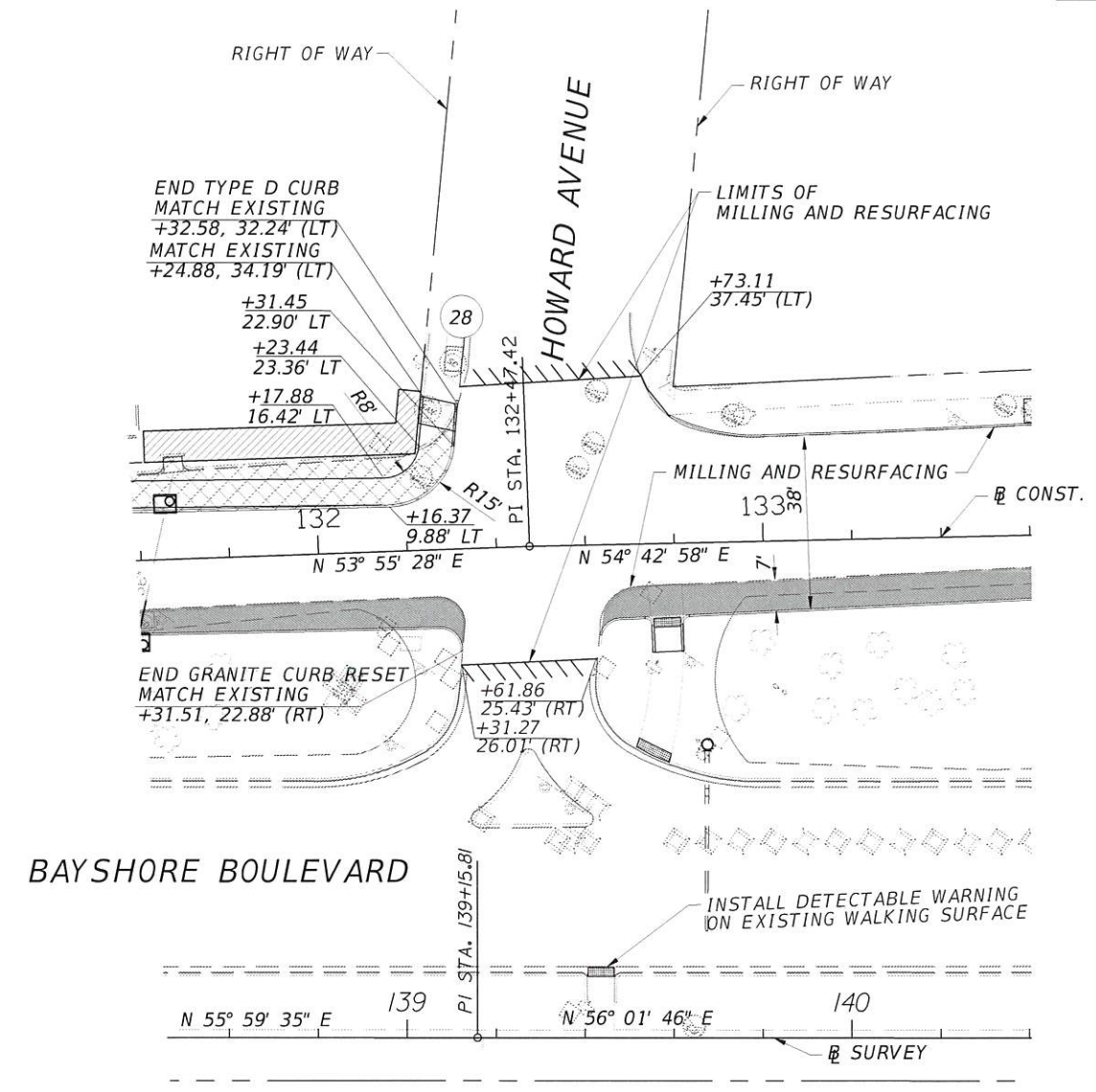
- EXISTING DRAINAGE INLET
- EXISTING DRAINAGE GRATE
- EXISTING DRAINAGE INLET

*Mark A. Gillette*  
 4/31/14

REVISIONS NO. DATE DESCRIPTION APPROVED					<b>CITY OF TAMPA</b> <b>TRANSPORTATION DIVISION</b> 305 E. JACKSON STREET TAMPA, FL. 33602	PREPARED BY: <b>Volkert, Inc.</b> Certificate of Authorization No. 4641 Mark A. Gillette, PE 48085 1408 N. Westshore Boulevard, Suite 600 Tampa, Florida 33607 Phone: 813.875.1365 www.volkert.com	NAME DATE APPROVED BY:		BAYSHORE PHASE III: FROM S. HOWARD AVE. TO S. ROYCE AVE.	PROJECT NO. 872900	SHEET NO. 32
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SUPERVISED BY: Mark A. Gillette, P.E.											



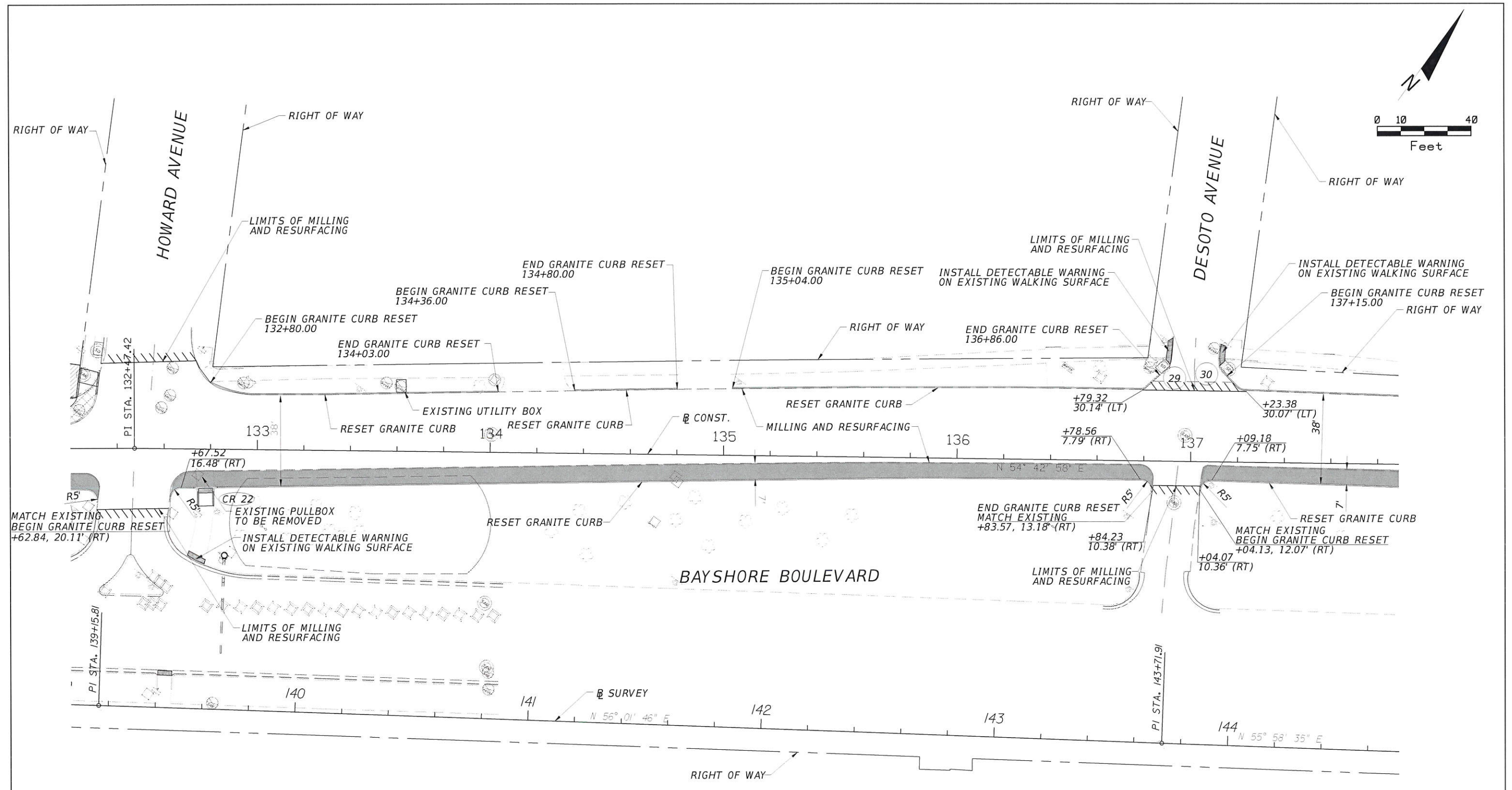
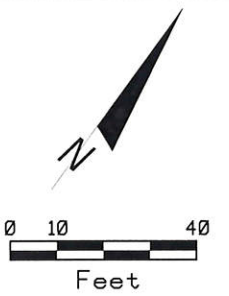
SIDEWALK CONNECTION DETAIL



- LEGEND**
- ASPHALT WIDENING
  - CURB & PAVEMENT TO BE REMOVED

*Mark A. Gillette*  
4/13/14

<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="4">REVISIONS</th> </tr> <tr> <th>NO.</th> <th>DATE</th> <th>DESCRIPTION</th> <th>APPROVED</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>	REVISIONS				NO.	DATE	DESCRIPTION	APPROVED													<p><b>CITY OF TAMPA</b> TRANSPORTATION DIVISION 305 E. JACKSON STREET TAMPA, FL 33602</p>	<p>PREPARED BY: <b>Volkert, Inc.</b> Certificate of Authorization No. 4641 Mark A. Gillette, PE 48085 1408 N. Westshore Boulevard, Suite 600 Tampa, Florida 33607 Phone: 813.875.1365 www.volkert.com</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>NAME</th> <th>DATE</th> <th>APPROVED BY:</th> </tr> </thead> <tbody> <tr> <td>DESIGNED BY: JRT</td> <td>10/17/13</td> <td rowspan="4" style="text-align: center; vertical-align: middle;"> </td> </tr> <tr> <td>DRAWN BY: JRT</td> <td>10/17/13</td> </tr> <tr> <td>CHECKED BY: MAG</td> <td>10/17/13</td> </tr> <tr> <td>SUPERVISED BY: Mark A. Gillette, P.E.</td> <td> </td> </tr> </tbody> </table>	NAME	DATE	APPROVED BY:	DESIGNED BY: JRT	10/17/13		DRAWN BY: JRT	10/17/13	CHECKED BY: MAG	10/17/13	SUPERVISED BY: Mark A. Gillette, P.E.		<p>BAYSHORE PHASE II: FROM S. HOWARD AVE. TO S. ROME AVE.</p> <p><b>PLAN SHEET (23A)</b></p>	<p>PROJECT NO. 872900</p>	<p>SHEET NO. 33</p>
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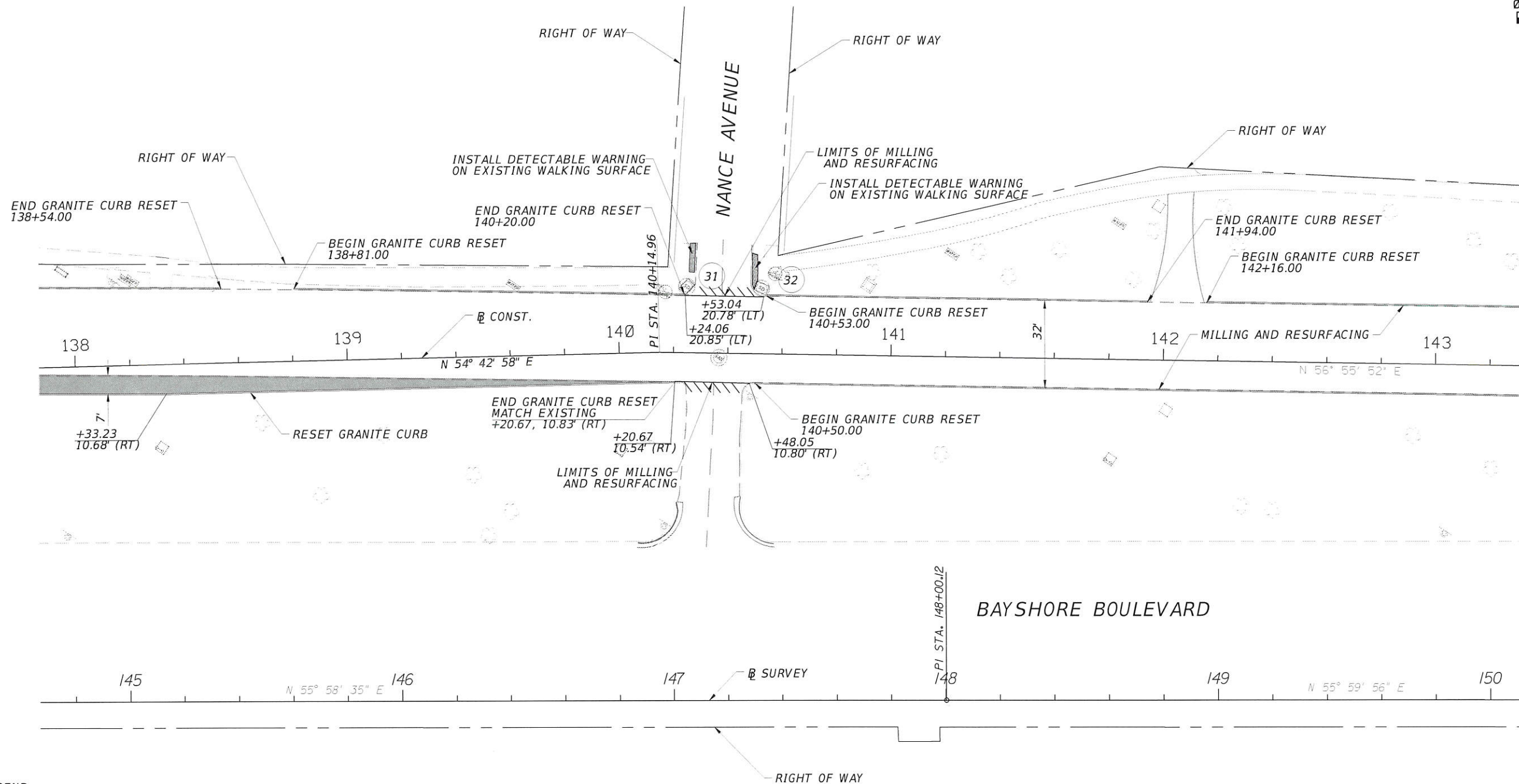
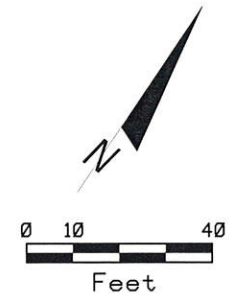


**LEGEND**  
 ASPHALT WIDENING

29 EXISTING DRAINAGE INLET  
 30 EXISTING DRAINAGE INLET

*Mark A. Gillette*  
 4/3/14

REVISIONS			CITY OF TAMPA TRANSPORTATION DIVISION 308 E. JACKSON STREET TAMPA, FL 33602	PREPARED BY: Volkert, Inc. Certificate of Authorization No. 4641 Mark A. Gillette, PE 48085 1408 N. Westshore Boulevard, Suite 600 Tampa, Florida 33607 Phone: 813.875.1365 www.volkert.com	APPROVED BY:		PROJECT NO. 872900	SHEET NO. 34
NO.	DATE	DESCRIPTION			NAME	DATE		
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				CHECKED BY: MRG	10/17/13			
				SUPERVISED BY: Mark A. Gillette, P.E.				

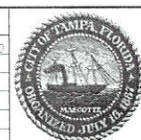


**LEGEND**  
 ASPHALT WIDENING

EXISTING DRAINAGE INLET

*Mark A. Gillette*  
 4/3/14

REVISIONS			
NO.	DATE	DESCRIPTION	APPROVED



**CITY OF TAMPA**  
**TRANSPORTATION DIVISION**  
 306 E. JACKSON STREET  
 TAMPA, FL 33602

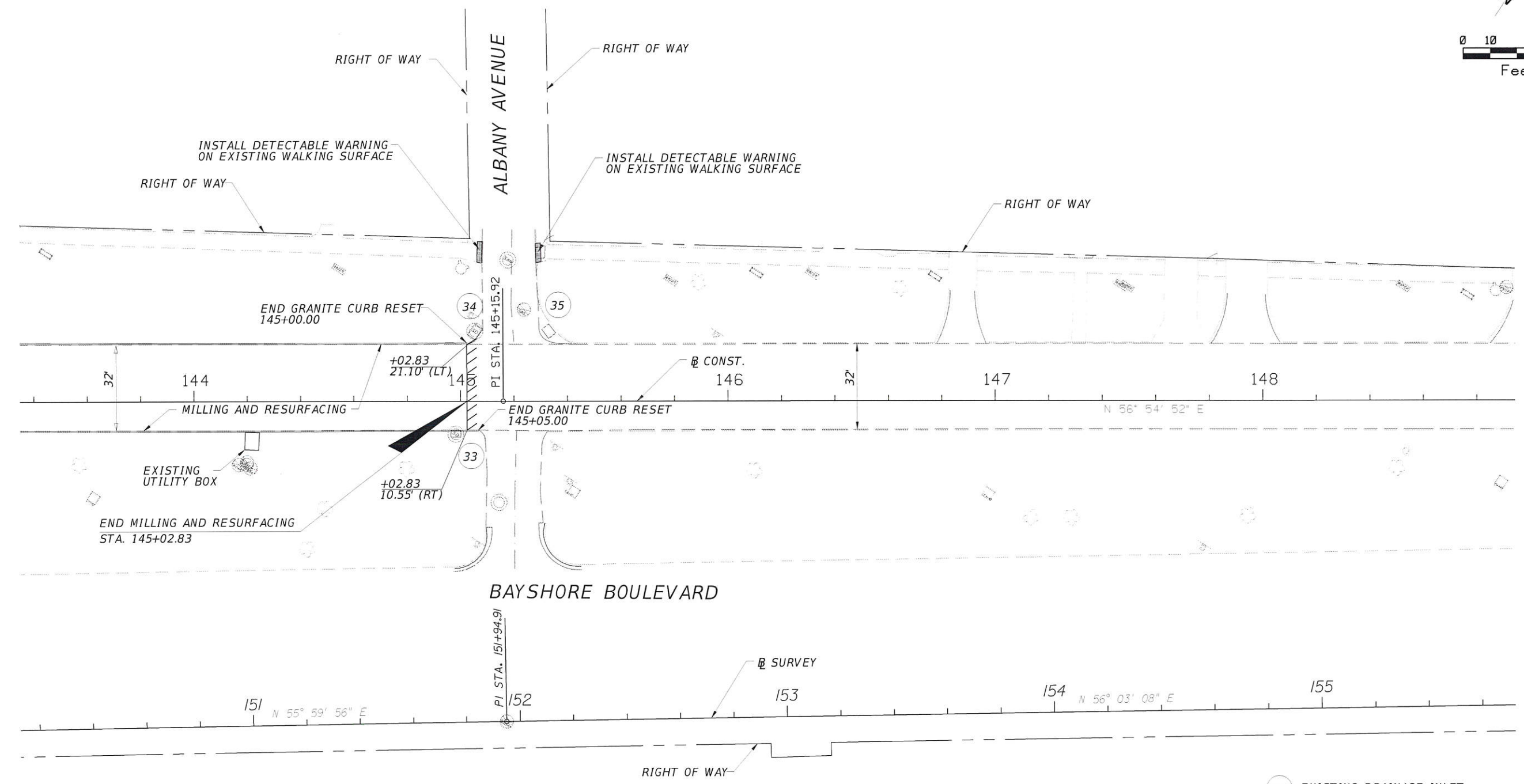
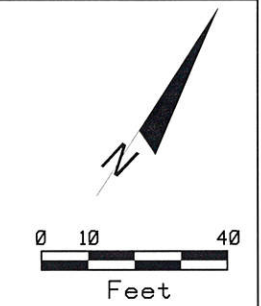
PREPARED BY:  
**Volkert, Inc.**  
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 1408 N. Westshore Boulevard, Suite 600  
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 www.volkert.com

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DRAWN BY: JRT	10/17/13
CHECKED BY: MAG	10/17/13
SUPERVISED BY: Mark A. Gillette, P.E.	

APPROVED BY:  
 Townsend, James  
 3/12/2014 4:54:11 PM


BAYSHORE PHASE II: FROM S. HOWARD AVE. TO S. ROME AVE.  
**PLAN SHEET (25)**

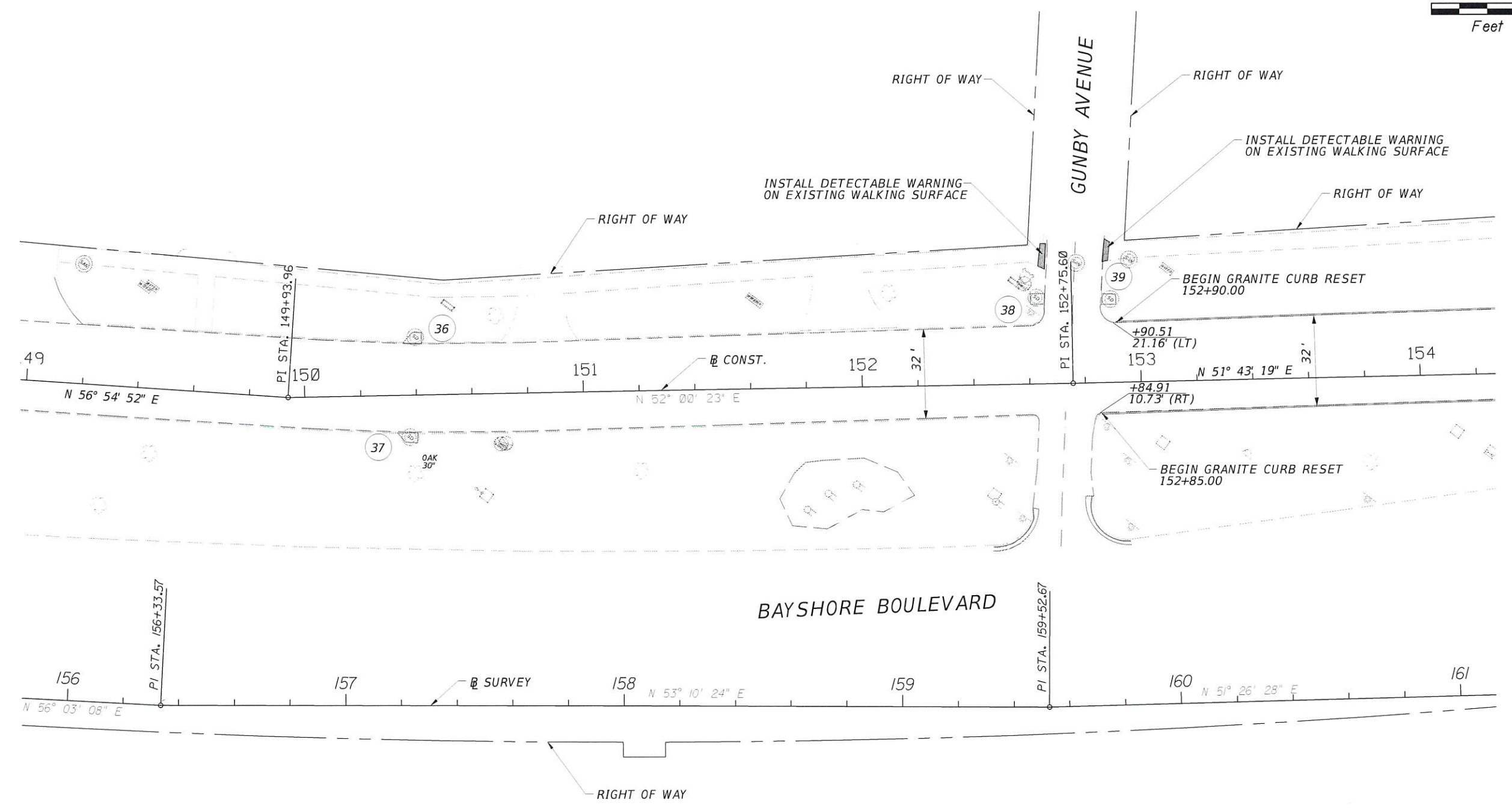
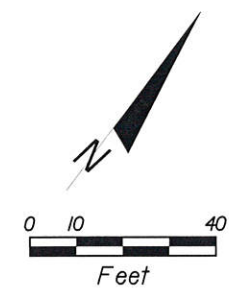
PROJECT NO.	SHEET NO.
872900	35



- 33 EXISTING DRAINAGE INLET
- 34 EXISTING DRAINAGE INLET
- 35 EXISTING DRAINAGE GRATE

*Mark A. Gillette*  
4/3/14

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*Mark A. Gillette*  
4/3/14

36 37 38 39 EXISTING DRAINAGE INLET

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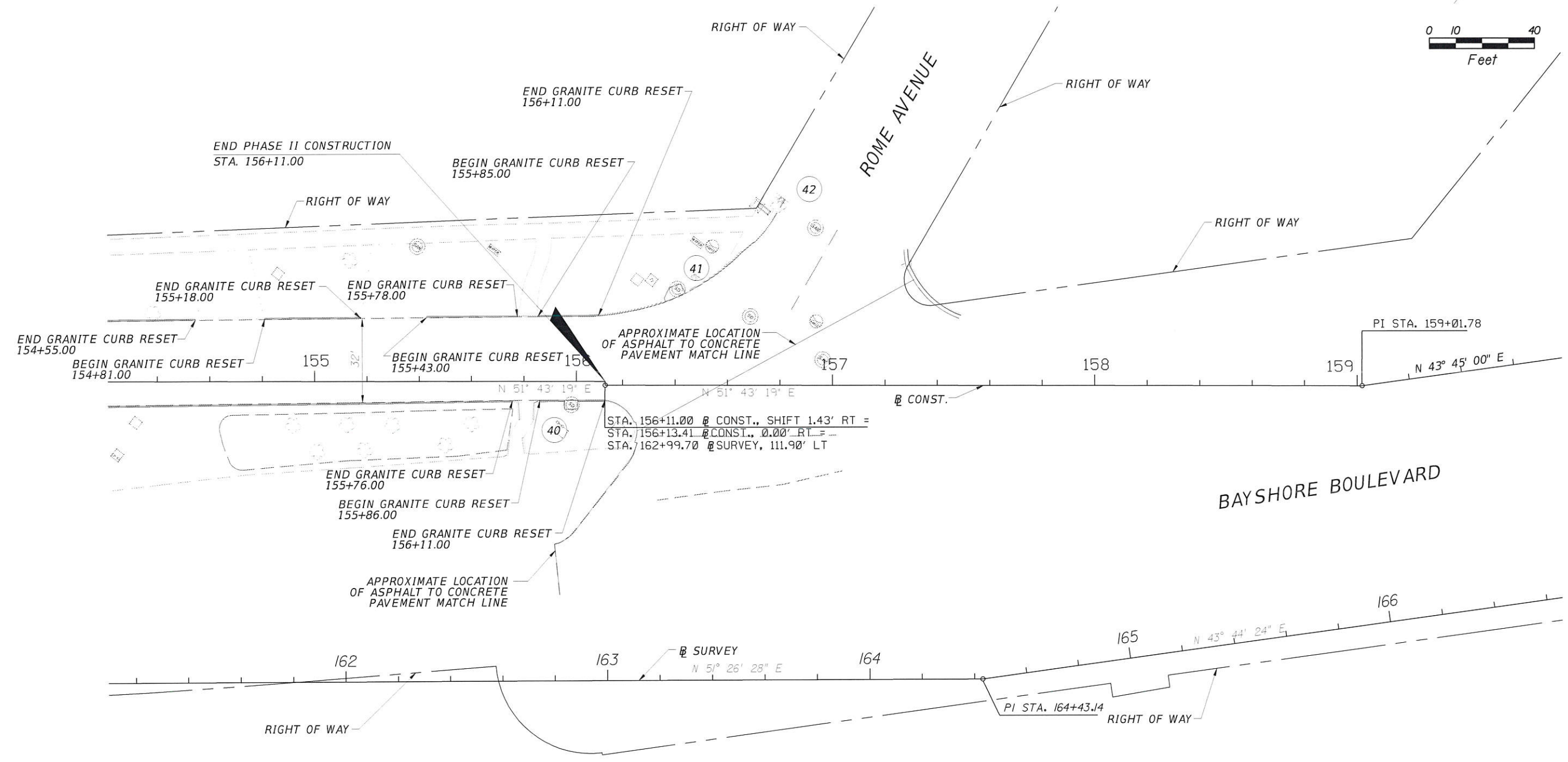
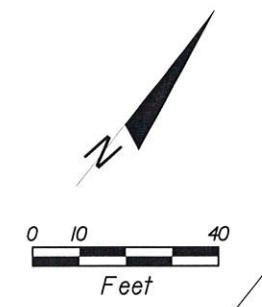
**CITY OF TAMPA**  
**TRANSPORTATION DIVISION**  
306 E. JACKSON STREET  
TAMPA, FL 33602

PREPARED BY: **Volkert, Inc.**  
Certificate of Authorization No. 4641  
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Tampa, Florida 33607  
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SUPERVISED BY: Mark A. Gillette, P.E.		

BAYSHORE PHASE II: FROM S. HOWARD AVE. TO S. ROME AVE.  
**PLAN SHEET (27)**


PROJECT NO.	SHEET NO.
872900	37

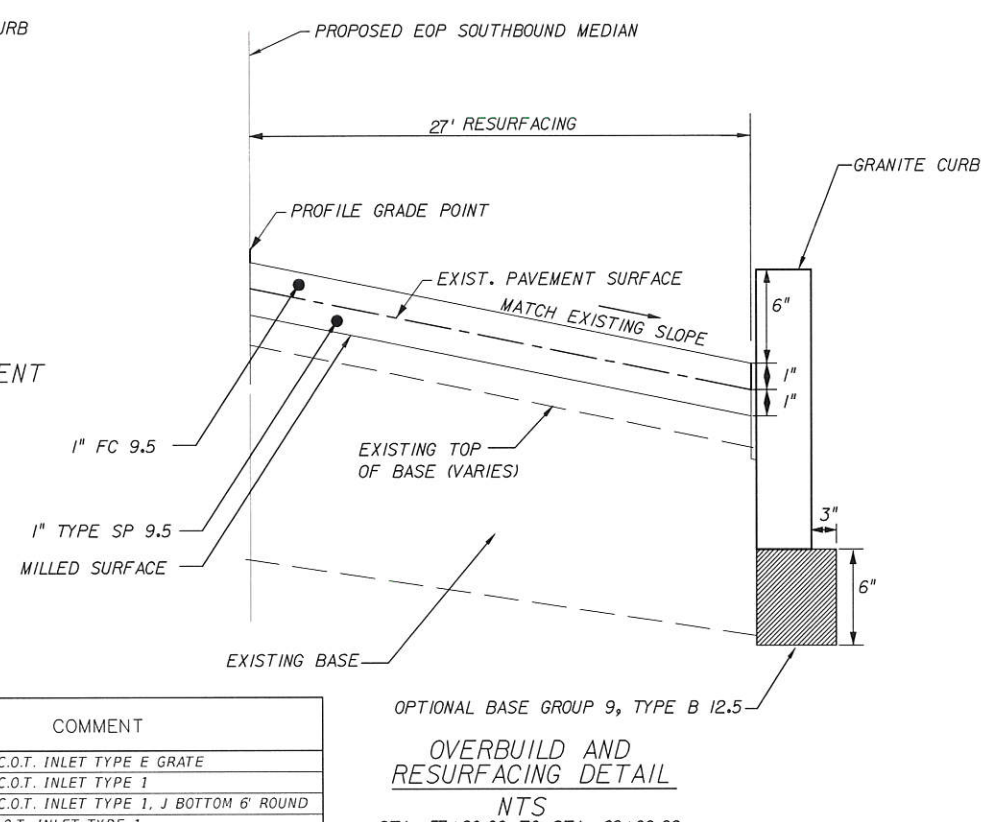
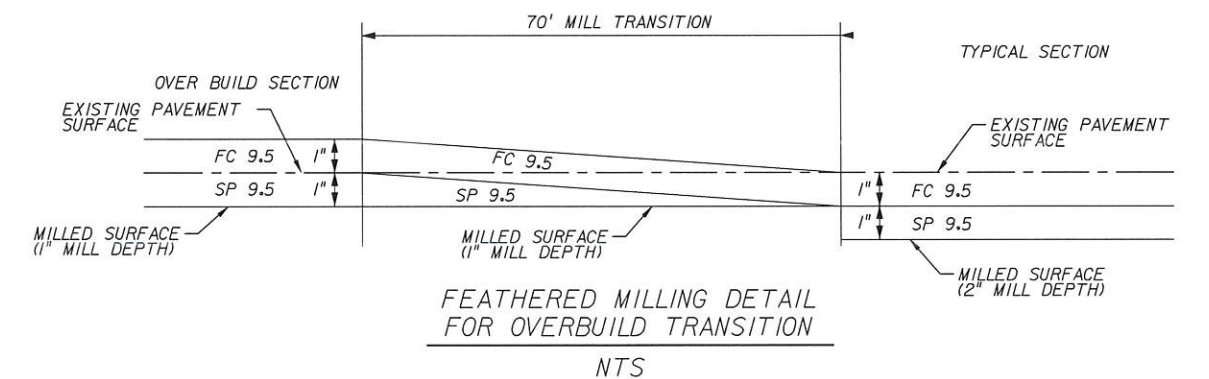
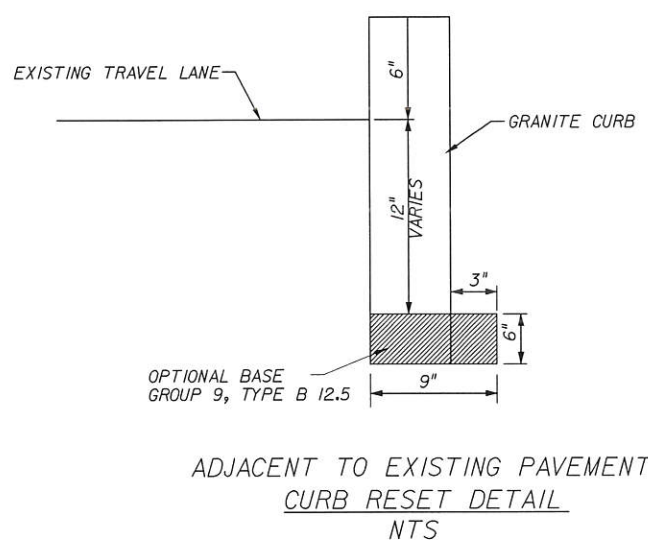
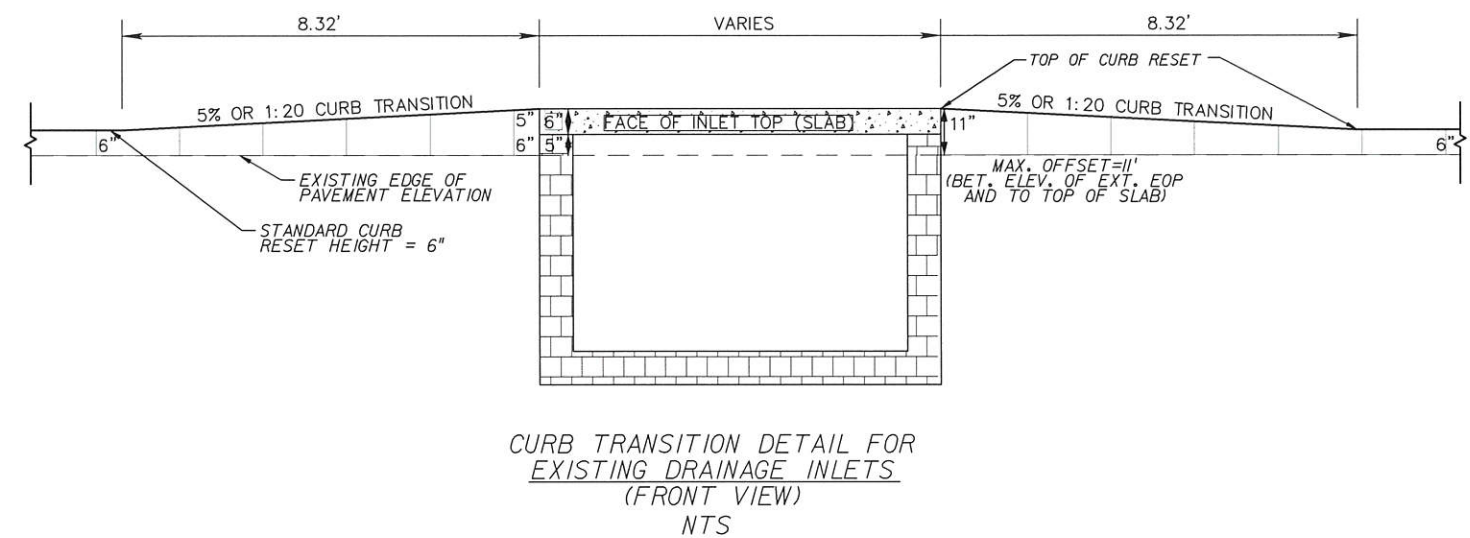
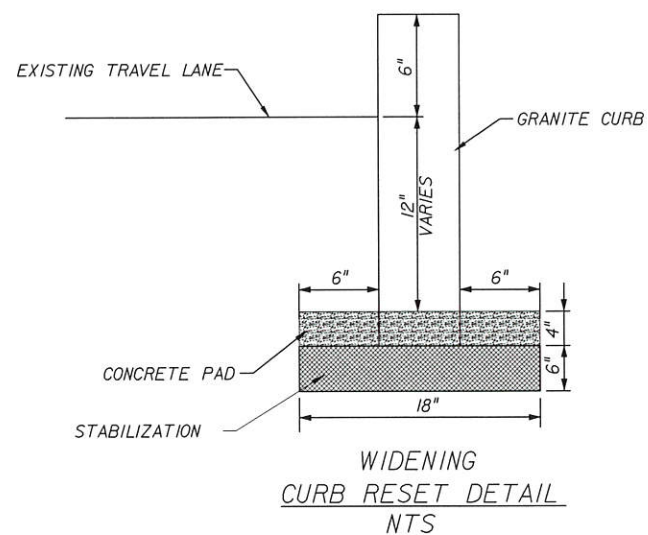


NOTE:  
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*Mark A. Gillette*  
 4/3/14

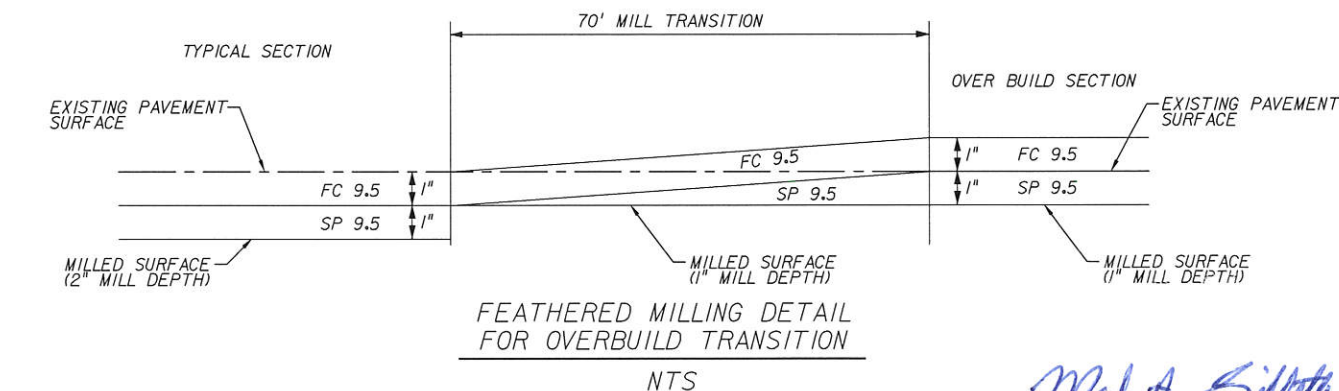
40 41 42 EXISTING DRAINAGE INLET

REVISIONS					<b>CITY OF TAMPA</b> <b>TRANSPORTATION DIVISION</b> 306 E. JACKSON STREET TAMPA, FL 33602	PREPARED BY: <b>Volkert, Inc.</b> Certificate of Authorization No. 4641 Mark A. Gillette, PE 48085 1408 N. Westshore Boulevard, Suite 600 Tampa, Florida 33607 Phone: 813.875.1365 www.volkert.com	NAME		DATE	APPROVED BY:		BAYSHORE PHASE II: FROM S. HOWARD AVE. TO S. ROME AVE.  <b>PLAN SHEET (28)</b>	PROJECT NO. 872900	SHEET NO. 38
NO	DATE	DESCRIPTION	APPROVED				DESIGNED BY:	JRT	10/17/13	CHECKED BY:	MAG			



STRUCTURE #	STATION	SIDE	OFF-SET	INVERT ELEVATIONS	COMMENT
S-1	56+59.64	RT	14.93	-1.72	REPLACE W/ C.O.T. INLET TYPE E GRATE
S-2	131+58.65	RT	18.31	-1.78	REPLACE W/ C.O.T. INLET TYPE 1
S-3	131+65.88	LT	12.43	-0.35	REPLACE W/ C.O.T. INLET TYPE 1, J BOTTOM 6" ROUND
S-4	204+72.74	LT	51.57	0.99	CONSTRUCT C.O.T. INLET TYPE 1
S-5	131+65.88	LT	16.76	-0.77	CONSTRUCT C.O.T. INLET TYPE 3

LIMITS FOR MILL TRANSITION: STA. 57+10.00 TO STA. 57+80.00



LIMITS FOR MILL TRANSITION: STA. 69+00.00 TO STA. 69+70.00

*Mark A. Gillette*  
4/3/14

REVISIONS			
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**CITY OF TAMPA**  
TRANSPORTATION DIVISION  
306 E. JACKSON STREET  
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DESIGNED BY:	NAME	DATE	APPROVED BY:
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SUPERVISED BY:	Mark A. Gillette, P.E.		

BAYSHORE PHASE II: FROM S. HOWARD AVE. TO S. ROME AVE.		PROJECT NO.	SHEET NO.
<b>SPECIAL DETAIL SHEET (1)</b>		872900	54



**MULTI LANE ROADWAYS**

SEQUENCE OF CONSTRUCTION ACTIVITIES:

1. CONSTRUCTION ACTIVITY SHALL BE IN COMPLIANCE W/FDOT STANDARD INDEX NOS. 600, 613, 615, 616, 619, AND 660.
2. SET UP WORK ZONE SIGNS IN ACCORDANCE WITH THE APPROPRIATE FDOT STANDARD INDEX (SERIES 600).
3. SET UP EROSION AND SEDIMENTATION CONTROL AS NEEDED PER FDOT STANDARD INDICES AND THE STATE OF FLORIDA EROSION AND SEDIMENT CONTROL DESIGNER AND REVIEW MANUAL (E&SC MANUAL).
4. BEGIN CLEARING AND GRUBBING.
5. CONSTRUCT ROADWAY WIDENING, DRAINAGE IMPROVEMENTS AND SIDEWALK IMPROVEMENTS PER CONSTRUCTION PLANS.
6. PERFORM MILLING AND RESURFACING PER CONSTRUCTION PLANS
7. INSTALL NEW SIGNS AND PAVEMENT MARKINGS PER SIGNING AND MARKING PLAN.
8. INSTALL NEW SIGNAL AND PEDESTRIAN FEATURES.
9. REMOVE SILT FENCE AND ALL EROSION CONTROL DEVICES.
10. OPEN THE FACILITY.

**TWO LANE ROADWAYS**


SEQUENCE OF CONSTRUCTION ACTIVITIES:

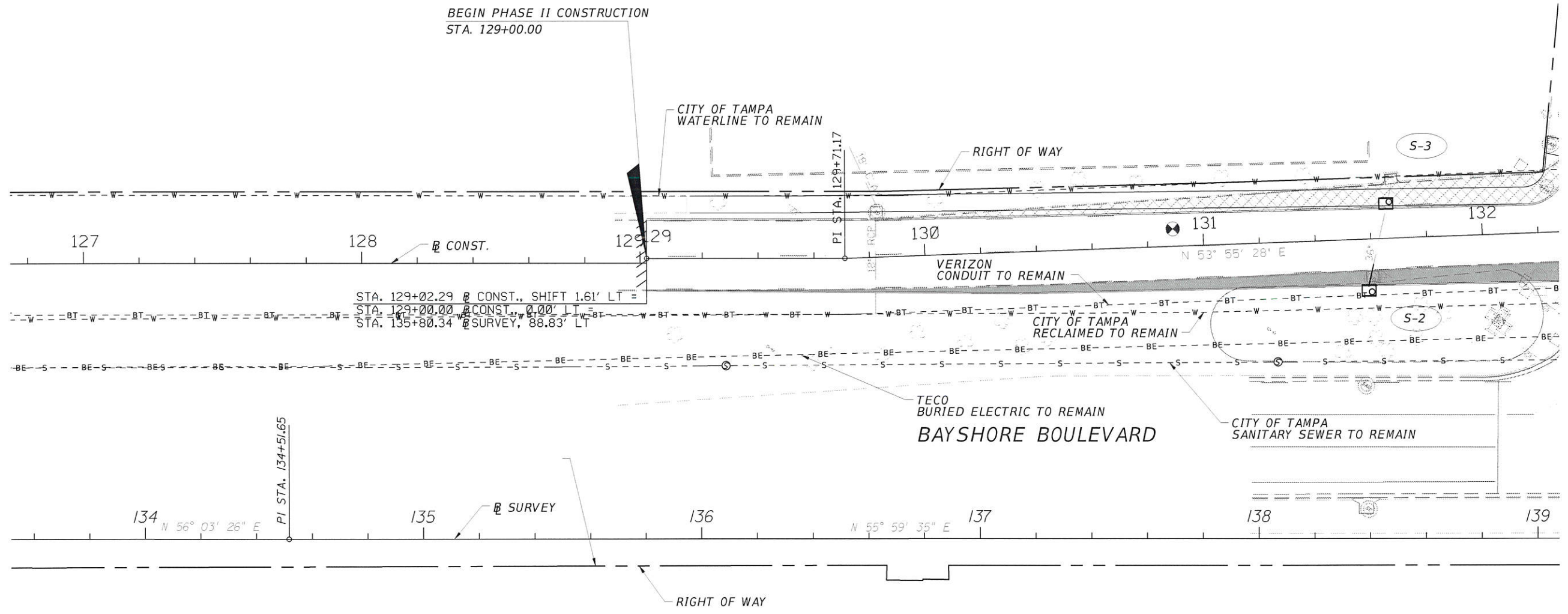
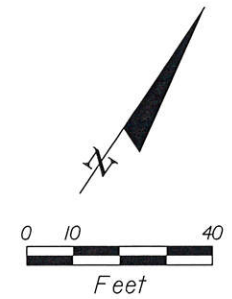
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2. SET UP WORK ZONE SIGNS IN ACCORDANCE WITH THE APPROPRIATE FDOT STANDARD INDEX (SERIES 600).
3. SET UP EROSION AND SEDIMENTATION CONTROL AS NEEDED PER FDOT STANDARD INDICES AND THE STATE OF FLORIDA EROSION AND SEDIMENT CONTROL DESIGNER AND REVIEW MANUAL (E&SC MANUAL).
4. BEGIN CLEARING AND GRUBBING.
5. CONSTRUCT ROADWAY AND DRAINAGE IMPROVEMENTS PER CONSTRUCTION PLANS.
6. PERFORM MILLING AND RESURFACING PER CONSTRUCTION PLANS
7. INSTALL ALL SIGNS AND PAVEMENT MARKINGS PER SIGNING AND MARKING PLAN.
8. REMOVE SILT FENCE AND ALL EROSION CONTROL DEVICES.
9. OPEN THE FACILITIES.

**TRAFFIC CONTROL GENERAL NOTES**

1. ALL CONSTRUCTION ACTIVITY SHALL BE IN COMPLIANCE W/ FDOT STD. INDEX NOS. 600, 603, 607, 613, 619 AND 660.
2. TRAFFIC FLOW SHALL BE MAINTAINED IN BOTH DIRECTIONS ALONG AFFECTED ROADWAYS AT ALL TIMES.
3. POSTED SPEED LIMITS SHALL BE MAINTAINED AT ALL TIMES.
4. ACCESS TO BUSINESSES AND RESIDENTIAL PROPERTY SHALL BE MAINTAINED AT ALL TIMES.
5. EXISTING DRAINAGE PATTERN SHALL BE MAINTAINED AT ALL TIMES
6. DAYTIME WORK ONLY, THE CITY OF TAMPA ENGINEER MUST APPROVE NIGHT WORK AND LANE CLOSURES AT LEAST 48 HOURS IN ADVANCE.
7. THE CONTRACTOR SHALL ADHERE TO FDOT STANDARD INDEX 600 SHEETS 2 OF 13 AND 10 OF 13 WHEN MILLING AND RESURFACING AND /OR LANE WIDENING ADJACENT TO THE TRAVEL WAY WITH A DROP-OFF GREATER THAN 3".

*Mark A. Gillette*  
4/3/14

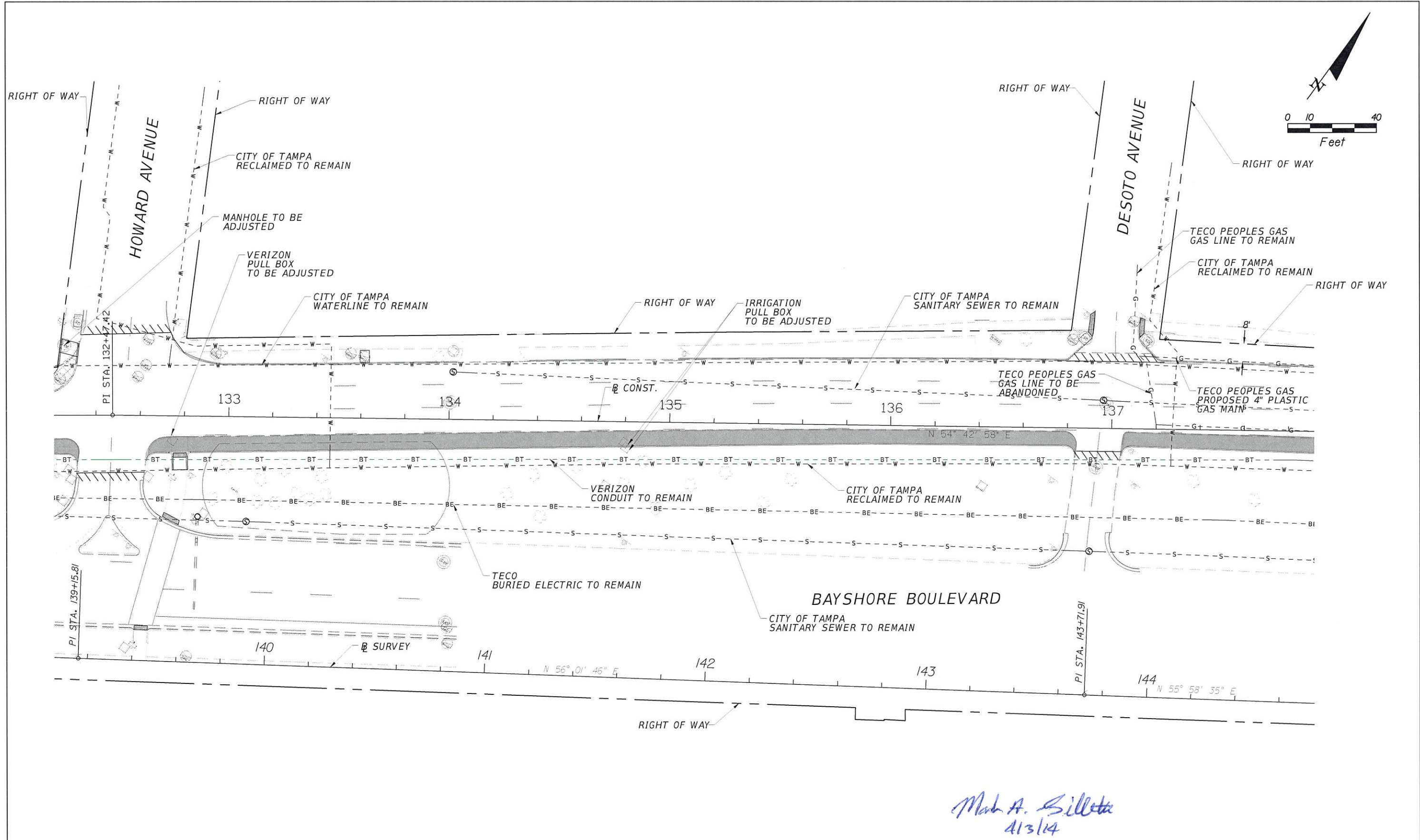
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NO.	DATE	DESCRIPTION	APPROVED			DESIGNED BY:	JRT	10/17/13	DRAWN BY:	JRT			
											UTILITY PLAN (23)		
											Townsend, James		



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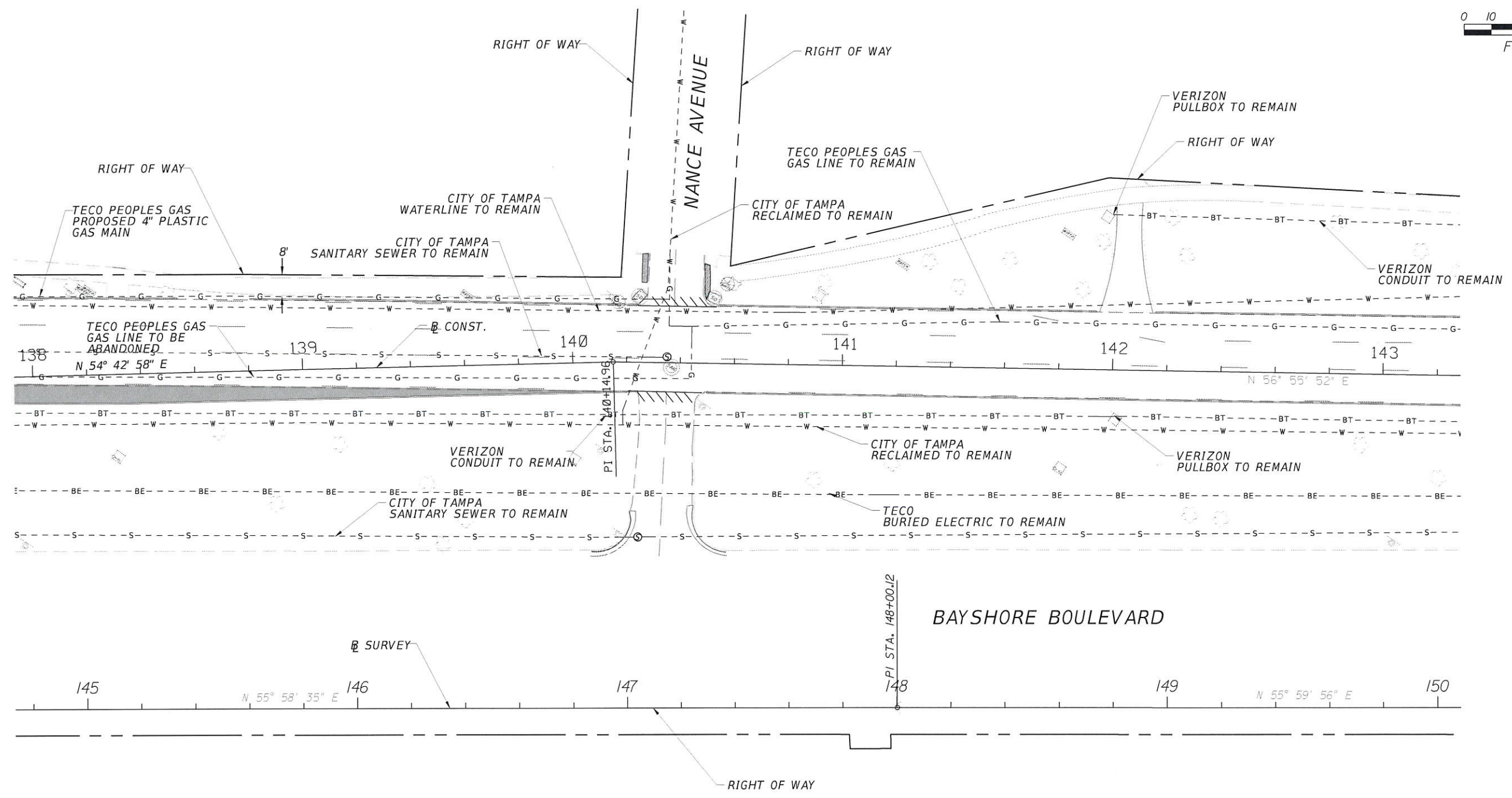
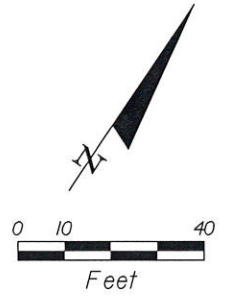


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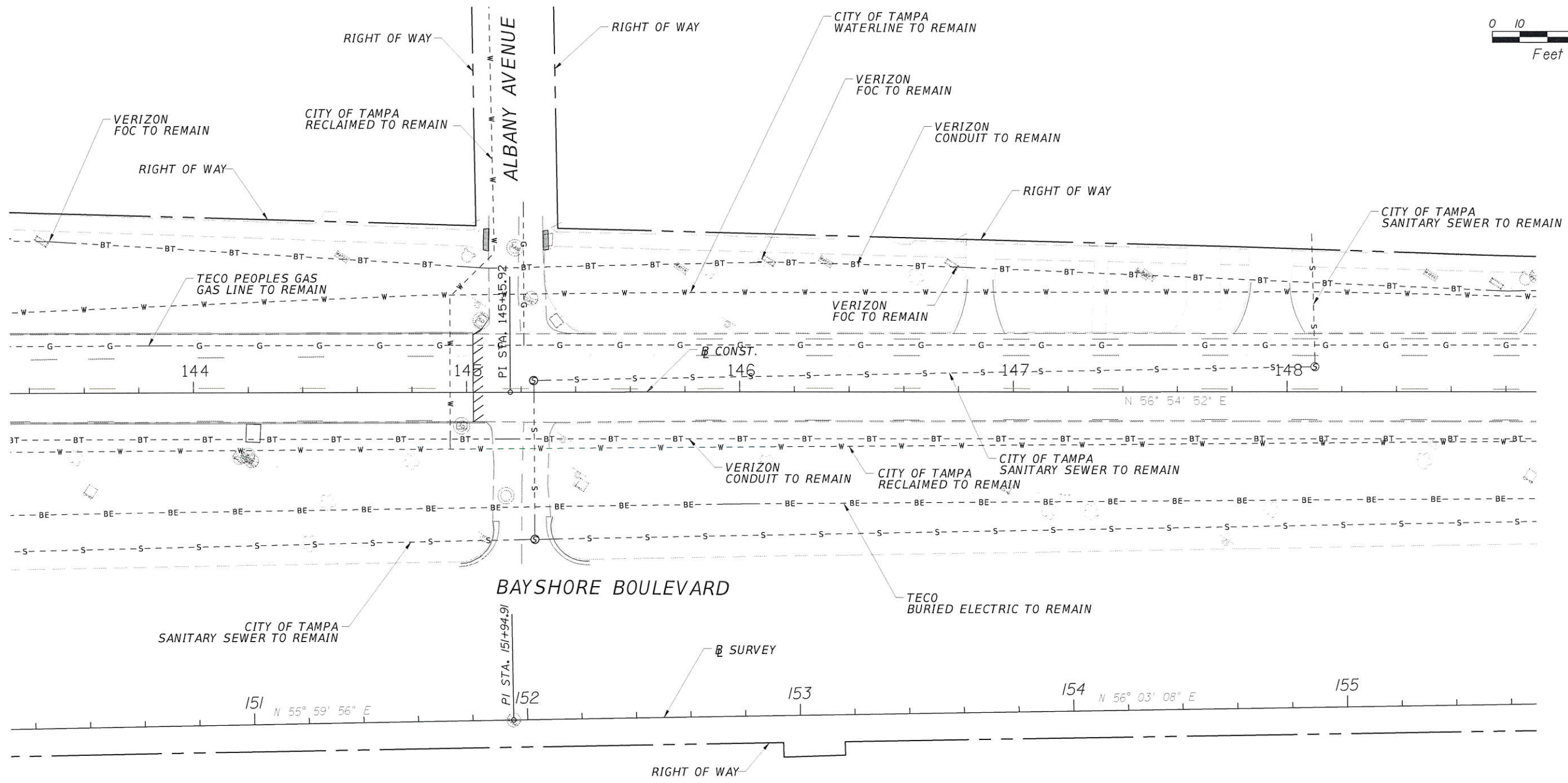
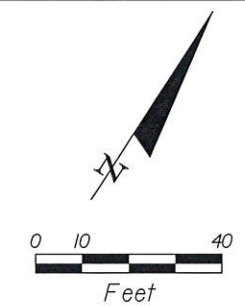
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BAYSHORE PHASE II: FROM S. HOWARD AVE. TO S. ROME AVE.		PROJECT NO.	SHEET NO.
<b>UTILITY PLAN (24)</b>		872900	112




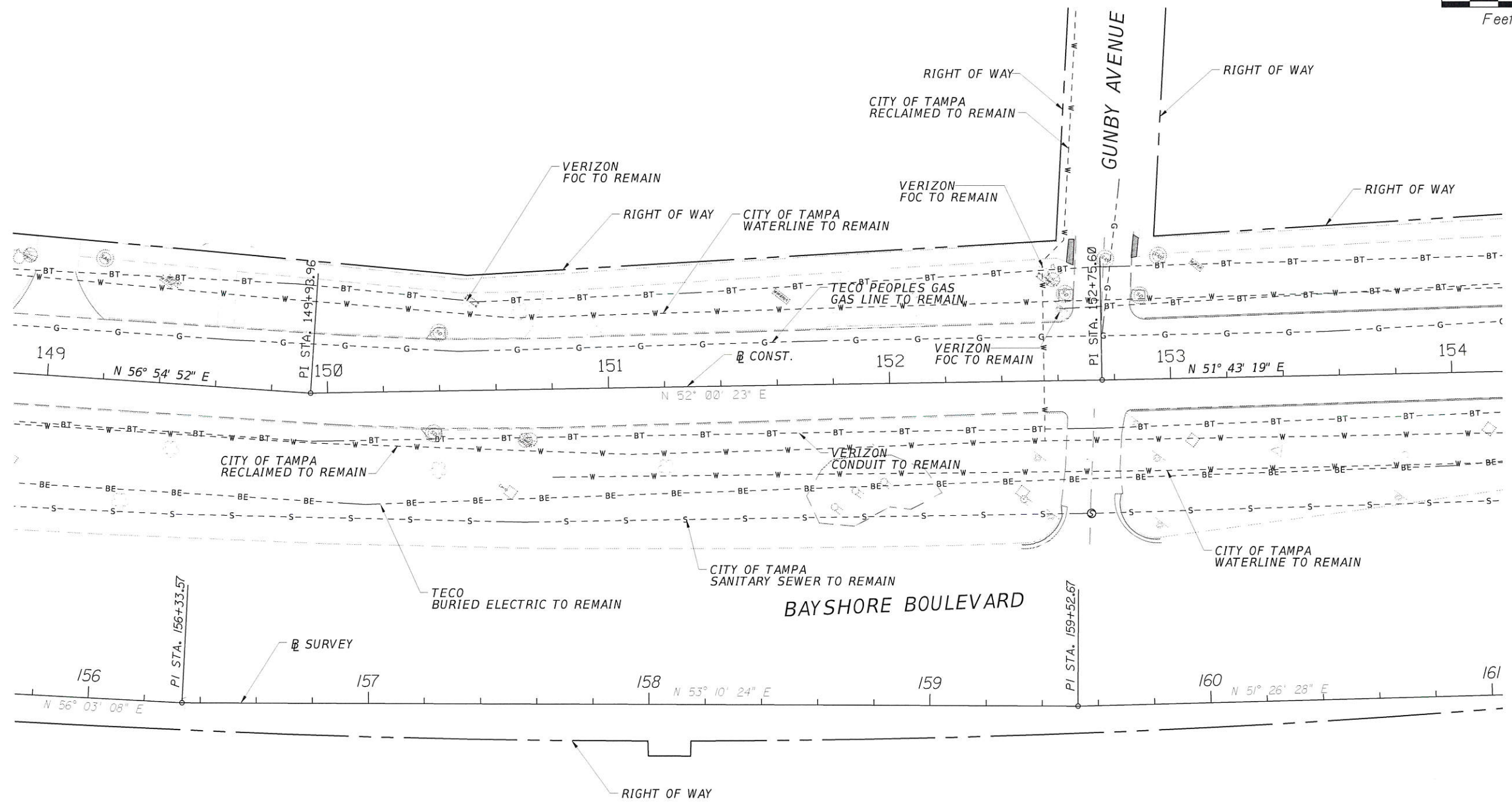
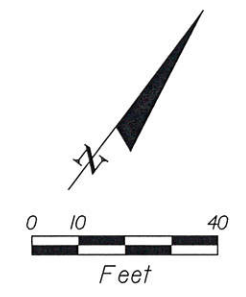
*Mark A. Gillette*  
4/3/14

REVISIONS NO. DATE DESCRIPTION APPROVED			 <b>CITY OF TAMPA</b> <b>TRANSPORTATION DIVISION</b> 306 E. JACKSON STREET TAMPA, FL 33602	PREPARED BY: <b>Volkert, Inc.</b> Certificate of Authorization No. 4641 Mark A. Gillette, PE 48085 1408 N. Westshore Boulevard, Suite 600 Tampa, Florida 33607 Phone: 813.875.1365 www.volkert.com	NAME DATE APPROVED BY: DESIGNED BY: JRT 10/17/13 DRAWN BY: JRT 10/17/13 CHECKED BY: MRG 10/17/13 SUPERVISED BY: Mark A. Gillette, P.E.		BAYSHORE PHASE II: FROM S. HOWARD AVE. TO S. ROME AVE. PROJECT NO. 872900 SHEET NO. 113	
<b>UTILITY PLAN (25)</b>								



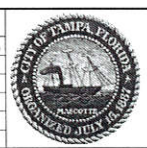
*Mark A. Gillette*  
4/3/14

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					DESIGNED BY: JRT 10/17/13 DRAWN BY: JRT 10/17/13 CHECKED BY: MAG 10/17/13 SUPERVISED BY: Mark A. Gillette, P.E.				



*Mark A. Gillette*  
4/3/14

REVISIONS		
NO.	DATE	DESCRIPTION



**CITY OF TAMPA**  
**TRANSPORTATION DIVISION**  
306 E. JACKSON STREET  
TAMPA, FL 33602

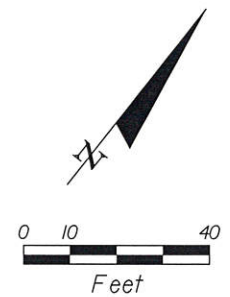
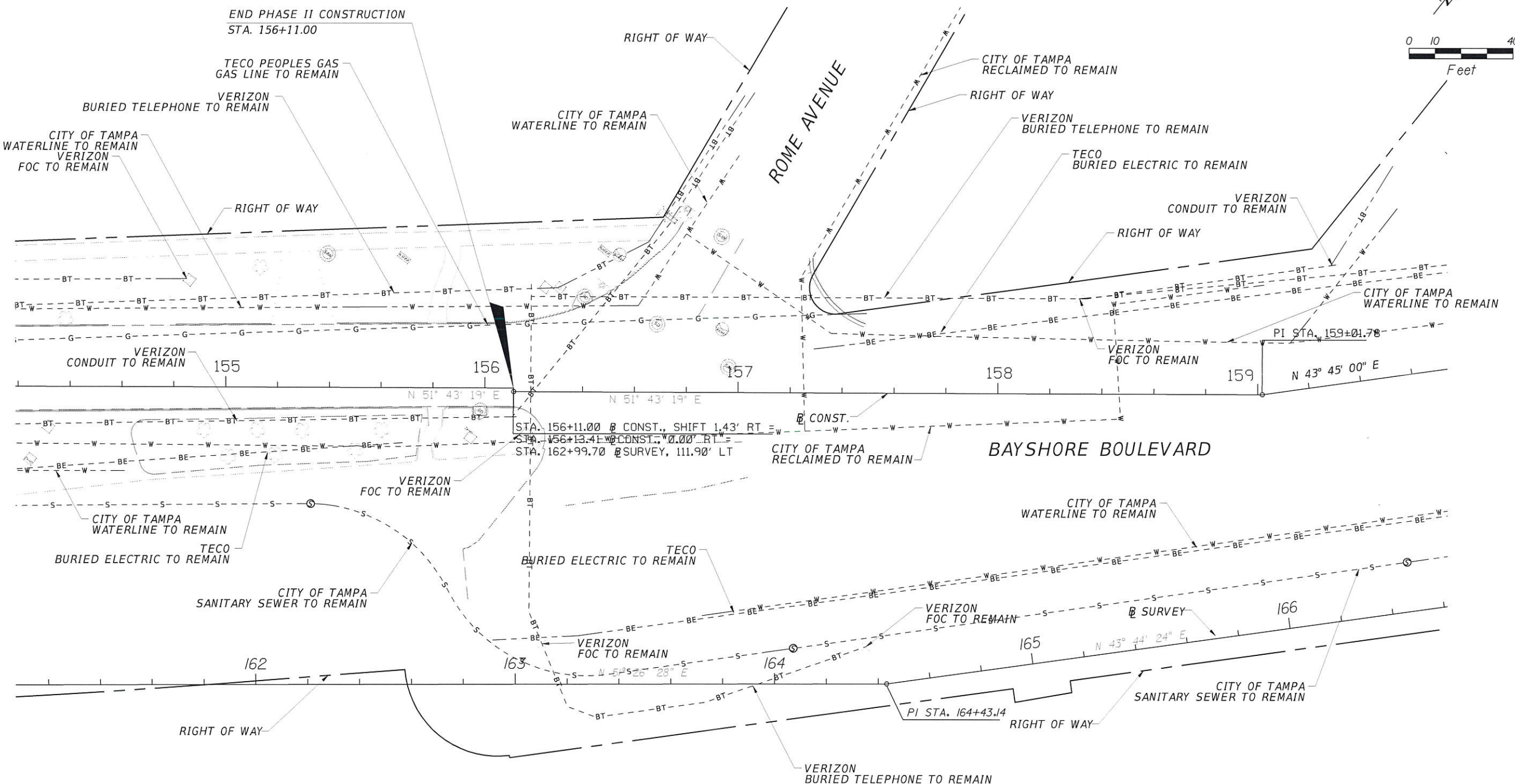
PREPARED BY: **Volkert, Inc.**  
Certificate of Authorization No. 4641  
Mark A. Gillette, PE 48085  
1408 N. Westshore Boulevard, Suite 600  
Tampa, Florida 33607  
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NAME	DATE
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DRAWN BY: JRT	10/17/13
CHECKED BY: MRG	10/17/13
SUPERVISED BY: Mark A. Gillette, P.E.	

APPROVED BY:  
  
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BAYSHORE PHASE II: FROM S. HOWARD AVE. TO S. ROME AVE.  
  
**UTILITY PLAN (27)**

PROJECT NO.	SHEET NO.
872900	115



NOTE:  
 THE BASELINE OF CONSTRUCTION HAS BEEN MODIFIED FROM THE PHASE I PLANS, AND STATION EQUATIONS HAVE BEEN ADDED TO THE BEGINNING AND END OF PHASE II CONSTRUCTION.

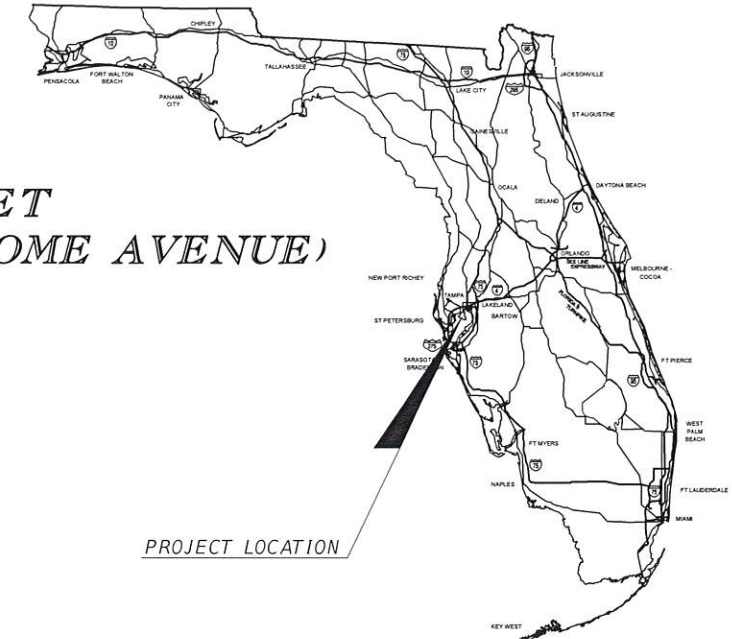
*Mark A. Gillette*  
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REVISIONS				CITY OF TAMPA TRANSPORTATION DIVISION 306 E. JACKSON STREET TAMPA, FL. 33602	PREPARED BY: Volkert, Inc. Certificate of Authorization No. 4641 Mark A. Gillette, PE 48085 1408 N. Westshore Boulevard, Suite 600 Tampa, Florida 33607 Phone: 813.875.1365 www.volkert.com	NAME		DATE	APPROVED BY:	BAYSHORE PHASE II: FROM S. HOWARD AVE. TO S. ROME AVE.	PROJECT NO.	SHEET NO.					
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										UTILITY PLAN (28)							



# CITY OF TAMPA CONTRACT PLANS

## BAYSHORE BOULEVARD FROM WEST GANDY BOULEVARD TO WEST PLATT STREET (PHASE II - FROM SOUTH OF SOUTH HOWARD AVENUE TO SOUTH ROME AVENUE) FINANCIAL PROJECT ID 413092-2-58-01



### INDEX OF SIGNALIZATION PLANS

SHEET NO.	SHEET DESCRIPTION
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T-2	TABULATION OF QUANTITIES
T-3	GENERAL NOTES
<del>T-4</del>	<del>SIGNALIZATION PLAN</del>
T-5	SIGNALIZATION PLAN
<del>T-6</del>	<del>SIGNALIZATION PLAN</del>
<del>T-7</del>	<del>GUIDE SIGN WORKSHEET</del>
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<del>T-9</del>	<del>GUIDE SIGN WORKSHEET</del>
T-10	MAST ARM TABULATION
T-11	MAST ARM MISCELLANEOUS DETAILS
T-12	TABLE OF VARIABLES FOR STANDARD MAST ARM ASSEMBLIES
<del>T-13</del>	<del>SIGNAL REPORT OF CORE BORINGS</del>
T-14	SIGNAL REPORT OF CORE BORINGS
<del>T-15</del>	<del>SIGNAL REPORT OF CORE BORINGS</del>

## SIGNALIZATION PLANS

SHOP DRAWINGS  
TO BE SUBMITTED TO:  
CITY OF TAMPA SIGNAL SHOP  
MIKE SCANLON  
1104 EAST TWIGGS STREET  
TAMPA, FLORIDA 33602  
TELEPHONE: (813) 274-8105

PLANS PREPARED BY:  
GARRETT ENGINEERING GROUP, INC.  
120 10TH AVE N.  
ST PETERSBURGH FLORIDA, 33701  
TELEPHONE: (727) 289-9018  
FAX: (727) 289-9183  
ENGINEERING BUSINESS NO. 00028424

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

GOVERNING STANDARDS AND SPECIFICATIONS:  
FLORIDA DEPARTMENT OF TRANSPORTATION,  
DESIGN STANDARDS DATED 2013, AND DIVISION  
II AND III OF THE FLORIDA DEPARTMENT OF  
TRANSPORTATION STANDARD SPECIFICATIONS  
FOR ROAD AND BRIDGE CONSTRUCTION DATED  
2013, AS AMENDED BY CONTRACT DOCUMENTS.

E. A. Garrett  
4/3/14

SIGNAL PLANS  
ENGINEER OF RECORD: \_\_\_\_\_  
ERBIE A. GARRETT, P.E.  
P.E. NO.: 45219

SHEET NO.
T-1


PROJECT MANAGER: MILTON MARTINEZ, P.E.



# TABULATION OF QUANTITIES

PAY ITEM NO.	DESCRIPTION	UNIT	SHEET NUMBERS																TOTAL THIS SHEET		GRAND TOTAL		REF. SHEET
			T-4		T-5		T-6																
			PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL			
102-14	TRAFFIC CONTROL OFFICER	MH			64															64		64	
630-2-11	CONDUIT (F&I), OPEN TRENCH	LF			260															260		260	
630-2-12	CONDUIT, (F&I), DIRECTIONAL BORE	LF			260															260		260	
632-7-1	CABLE SIGNAL (F&I)	PI			1															1		1	
633-4-1	INTERCONNECT CABLE (1-25) (F&I) (UG)	LF			250															250		250	
635-2-11	PULL & SPLICE BOX (F&I), 13"X24"	EA			16															16		16	
639-1-122	ELECT. PWR SVC (F&I) (UG) (PURCH.BY CONTRACTOR FROM POWER COMPANY)	AS			1															1		1	
639-2-1	ELECTRICAL SERVICE WIRE (FURNISH AND INSTALL)	LF			240															240		240	
641-2-12	PRESTRESSED CONCRETE POLE (F&I) (TYPE II SERVICE POLE)	EA			1															1		1	
649-31-210	MAST ARM ASSEMBLY (F&I) (130) (36-36)	EA			1															1		1	
650-1-311	TRAFFIC SIGNAL (F&I) (3-SECTION 1 WAY) (LED)	EA			4															4		4	
660-3-11	VEHICLE DETECTION SYSTEM - MICROWAVE (F&I) (CABINET EQUIPMENT)	EA			2															2		2	
660-3-12	VEHICLE DETECTION SYSTEM - MICROWAVE (F&I) (ABOVE GROUND EQUIPMENT)	EA			2															2		2	
670-5-110	TRAFFIC CONTROLLER ASSEMBLY (F&I) (NEMA) (NO PREEMPT)	AS			1															1		1	
682-1-11	ITS CCTV CAMERA (F&I), DOME ENCLOSURE, PRESSURIZED	EA			1															1		1	
685-106	SYSTEM AUXILIARIES (F&I) (UNINTERRUPTABLE POWER SOURCE)	EA			1															1		1	
690-10	TRAFFIC SIGNAL HEAD ASSEMBLY REMOVAL	EA			4															4		4	
690-32-2	POLE REMOVAL - SHALLOW (BOLT ON ATTACHMENT)	EA			1															1		1	
690-50	CONTROLLER ASSEMBLY - REMOVAL	EA			1															1		1	
690-60	DETECTOR VEHICLE ASSEMBLY - REMOVE	EA			3															3		3	
690-90	REMOVE CONDUIT AND CABLING	PI			1															1		1	
690-100	SIGNAL EQUIPMENT - MISC REMOVE	PI			1															1		1	
700-5-22	INTERNALLY ILLUMINATED SIGN	EA			2															2		2	

*John Howard*  
4/15/14

<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="4">REVISIONS</th> </tr> <tr> <th>NO.</th> <th>DATE</th> <th>DESCRIPTION</th> <th>APPROVED</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	REVISIONS				NO.	DATE	DESCRIPTION	APPROVED					 <p><b>CITY OF TAMPA</b> TRANSPORTATION DIVISION 305 E. JACKSON STREET TAMPA, FL 33602</p>	PREPARED BY: <b>Garrett Engineering Group, Inc.</b> 120 10TH AVENUE NORTH SAINT PETERSBURG, FL 33701 CERTIFICATE OF AUTHORIZATION NO.: 00028424 ERBIE A. GARRETT, P.E. NO.: 45219	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>NAME</th> <th>DATE</th> <th>APPROVED BY:</th> </tr> </thead> <tbody> <tr> <td>DESIGNED BY: JL</td> <td>09/13/13</td> <td> </td> </tr> <tr> <td>DRAWN BY: JRT</td> <td>09/13/13</td> <td> </td> </tr> <tr> <td>CHECKED BY: EAG</td> <td>09/13/13</td> <td> </td> </tr> <tr> <td>SUPERVISED BY: Erbie A. Garrett, P.E.</td> <td> </td> <td> </td> </tr> </tbody> </table>	NAME	DATE	APPROVED BY:	DESIGNED BY: JL	09/13/13		DRAWN BY: JRT	09/13/13		CHECKED BY: EAG	09/13/13		SUPERVISED BY: Erbie A. Garrett, P.E.			BAYSHORE PHASE II: FROM S. HOWARD AVE. TO S. ROME AVE.  <b>TABULATION OF QUANTITIES</b>	PROJECT NO. 872900	SHEET NO. T-2
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**GENERAL NOTES**

**SIGNALIZATION**

- ALL TRAFFIC SIGNAL HEADS MUST BE FDOT CERTIFIED, CAST ALUMINUM RED SECTION WITH POLYCARBONATE AMBER AND GREEN SECTIONS, WITH STAINLESS STEEL HARDWARE, GLASS LENSES AND TUNNEL VISORS. ALL SIGNAL INDICATIONS SHALL BE AN L.E.D. INDICATION. ALL LED SIGNAL HEADS SHALL MEET CITY SPECIFICATIONS.
- ALL WIRING SHALL BE IN ACCORDANCE WITH CITY OF TAMPA WIRING STANDARDS. CONTACT THE TRAFFIC SIGNAL SUPERINTENDENT AT 813-622-1966 FOR INFORMATION REGARDING CITY WIRING STANDARDS.
- ALL PEDESTRIAN SIGNAL HEADS MUST BE FDOT CERTIFIED COUNT DOWN HEADS, WITH CAST ALUMINUM HOUSING, USING LED INTERNATIONAL SYMBOLS, MEETING CITY OF TAMPA SPECIFICATIONS AND ALL PUSH BUTTONS SHALL BE WIRED SEPARATELY USING LOW VOLTAGE BELDON WIRE PLACED IN SEPARATE LOW VOLTAGE CONDUIT OR LOW VOLTAGE PULL BOX.
- VERTICAL CLEARANCE ON TRAFFIC SIGNAL HEADS SHALL MEET FDOT STANDARDS, 17' TO 19'
- ALL SIGNAL EQUIPMENT REMOVED SHALL BE RETURNED TO THE CITY OF TAMPA OR DISPOSED OF AS DIRECTED BY THE TRAFFIC SIGNAL SUPERINTENDENT AT 813-622-1966.
- ILLUMINATED STREET NAME SIGNS SHALL BE SUPPLIED BY THE CONTRACTOR. BID ITEM 700-5-22 FOR SIGNS SHALL BE FURNISH AND INSTALL AND WILL INCLUDE ELECTRICAL SERVICE WIRE. WIRE SHALL BE IMSA AWG 10/2 (SIGNAL CABLE). INTERNALLY ILLUMINATED STREET NAME SIGNS SHALL BE LED.
- SEE ATTACHED SHEETS FOR POLE AND MAST ARM SPECIFICATIONS.
- THE CONTRACTOR SHALL NOTIFY THE CITY OF TAMPA TRAFFIC SIGNAL SUPERINTENDENT AND WAYNE CORNELISON AT 813-622-1966 AT LEAST 24 HOURS IN ADVANCE OF ANY SIGNAL RELATED WORK. FAILURE TO PROVIDE THIS NOTICE MAY RESULT IN REJECTION OF ALL UNINSPECTED WORK.
- THE CONTRACTOR SHALL NOTIFY TAMPA ELECTRIC COMPANY (CONTACT TECO FOR REQUIRED TIME FRAME) IN ADVANCE OF SETTING ANY POLE WHERE CONFLICT WITH AN OVERHEAD ELECTRICAL CONDUCTOR EXISTS AND IN ALL CASES WHERE JOINT-USE POLES ARE CALLED FOR ON THE PLANS. IN AREAS OF LIMITED OVERHEAD CLEARANCE CONTRACTOR IS TO USE A LOW PROFILE DRILL RIG.
- TRAFFIC SIGNAL CABLE PROVIDING POWER TO VEHICULAR AND PEDESTRIAN SIGNAL HEADS SHALL NOT BE INSTALLED IN THE SAME CONDUIT CONTAINING LOOP LEAD-INS AND PEDESTRIAN DETECTOR CABLES.
- SIGNAL MOUNTING BRACKETS SHALL BE FDOT CERTIFIED AND MEET CITY OF TAMPA SPECIFICATIONS. WIRING SHALL MEET CITY STANDARDS. CONTACT TRAFFIC SIGNAL SUPERINTENDENT FOR SIGNAL MOUNTING BRACKETS AND WIRING STANDARDS AT 813-622-1966.
- THE CONTRACTOR IS TO DE-WATER FOUNDATION EXCAVATION IF THE ELEVATION OF GROUND WATER IS HIGHER THAN THE ELEVATION OF THE FOUNDATION BASE.
- ELECTRICAL SERVICE AUTHORIZATION AND SERVICE RELEASE MUST BE COORDINATED IN ADVANCE THROUGH THE TRAFFIC OPERATIONS CHIEF. CONTACT THE TRAFFIC SIGNAL SUPERINTENDENT FOR INSTRUCTIONS AT 813-622-1966. ALL TECO ELECTRICAL SERVICE FEES SHALL BE INCLUDED AS PART OF SIGNAL COST. NO ADDITIONAL COMPENSATION WILL BE PROVIDED.
- WHEN A CONTRACTOR IS DOING SIGNAL WORK IN AN INTERSECTION (INSTALLING CONDUIT IN THE STREET, REMOVING EXISTING SIGNAL EQUIPMENT, INSTALLING LOOPS AND RUNS, AND TURNING ON OF NEW SIGNALS) WHERE A LANE IS CLOSED, THE PROJECT ENGINEER MAY REQUIRE AN OFF-DUTY LAW ENFORCEMENT OFFICER TO DIRECT TRAFFIC. THE HOURLY RATE OF PAY FOR AN OFF-DUTY LAW ENFORCEMENT OFFICER CAN BE OBTAINED FROM THE OFFICE OF THE LAW ENFORCEMENT OFFICER. OFF-DUTY LAW ENFORCEMENT OFFICER IS TO BE PAID FOR UNDER PAY ITEM 102-1 MAINTENANCE OF TRAFFIC, LUMP SUM.
- INTERCONNECT CABLE SHALL BE AT LEAST 6 PAIR "GEL FILLED" (PE-39), 22 AWG. IF INFORMATION REQUIRED, CONTACT CITY OF TAMPA SIGNAL SUPERINTENDENT AT 813-622-1966.
- CONTRACTOR SHALL RELOCATE ALL COMMUNICATIONS FROM THE EXISTING CABINET TO THE NEW CABINET. ADDITIONAL COMMUNICATIONS CABLE, IF REQUIRED, WILL BE PAID UNDER PAY ITEM 633-4-1.
- POLE AND MAST ARM SIGNAL INSTALLATIONS: FOUNDATIONS FOR POLE AND MAST ARMS SHALL NOT BE POURED UNLESS A CITY OF TAMPA INSPECTOR IS ON SITE. THERE ARE NO EXCEPTIONS. CONTACT MIKE SCANLON TRAFFIC DESIGN ENGINEER AT 813-274-8105 24-48 HOURS PRIOR TO POURING FOUNDATION.

**CONTROLLER**

- THE CONTRACTOR TO SUPPLY THE TRAFFIC CABINET AND CONTROLLER.
- CONTROLLER SHALL INCLUDE THE COST OF FURNISHING AND INSTALLING A NEMA TS-2 CABINET WIRED FOR SOP-10 INCLUDING NEMA TS-2 TYPE 1 CONTROLLER COMPATIBLE WITH THE CITY'S CENTRACS SIGNAL CONTROL SYSTEM, GPS UNIT FOR CLOCK SYNC, FIBER OPTIC COMMUNICATIONS PANEL (12-COUNT WITH SC CONNECTORS), CABINET BASE, TECHNICIAN SLAB AND ASSOCIATED STEPS. THE CONTRACTOR SHALL NOTIFY THE CITY OF TAMPA SIGNAL SHOP (VIA EMAIL) AT LEAST 48 HOURS IN ADVANCE OF TURNING ON A NEW OR MODIFIED TRAFFIC CONTROLLER ASSEMBLY. CABINET DOOR SHOULD OPEN AWAY FROM TRAFFIC. THE TECHNICIAN SERVICE SLAB SHALL BE A MAXIMUM OF 4" BELOW THE TOP OF THE CONCRETE PAD.
- THE CABINET CIRCUITRY SHALL HAVE PROVISIONS, IN THE EVENT OF MTCS COMMUNICATIONS FAILURE, TO FALL BACK TO TIME BASE COORDINATION.
- THE CONTRACTOR SHALL PROVIDE SUBMITTAL DOCUMENTATION ON ALL EQUIPMENT AND MISCELLANEOUS MATERIALS TO BE UTILIZED ON THIS PROJECT TO THE TRAFFIC OPERATIONS CHIEF. THIS SHALL BE ACCOMPLISHED PRIOR TO ORDERING ANY EQUIPMENT FOR THIS PROJECT.
- FOR PAY ITEM NO. 670-5-110 (ACTUATED SOLID STATE CONTROLLER ASSEMBLY) A TYPE 5 CONTROLLER CABINET SHALL BE FURNISHED AND INSTALLED, UNLESS SPECIFIED OTHERWISE.
- THE CONTROLLER SHALL HAVE THE CAPABILITY OF SENDING AND RECEIVING DATA TO AND FROM A LAP TOP PERSONAL COMPUTER AT THE INTERSECTION.
- ITEM NO. 670-5-110 SHALL INCLUDE A MANUAL PUSHBUTTON WITH CORD AS SPECIFIED IN THE 1991 STANDARD SPECIFICATION (TRAFFIC SIGNALS), SECTION A 676-01 (C), POLICE SWITCHES, E.C.T.C.D.
- CONTROLLER SHALL BE CAPABLE OF S.O.P. 10, WITH TBC CAPABILITY.
- THE CONTROLLER DOOR SHALL OPEN AWAY FROM THE STREET.
- THE TOP ELEVATION OF THE CONTROLLER BASE SHALL BE GREATER THAN THE CROWN OF THE ROADWAY. COORDINATE WITH THE CITY OF TAMPA SIGNAL SHOP AND WAYNE CORNELISON AT 813 622-1966 FOR PAD ELEVATION.

**SIGNAL PLANS SET**

- THE CONTRACTOR SHALL SUBMIT THE AS-BUILT PLANS TO THE ENGINEER FOR FINAL ACCEPTANCE. THE ENGINEER SHALL PROVIDE AT LEAST ONE COMPLETE COPY OF THE PLANS, IN AN ACCEPTABLE ELECTRONIC FORMAT, TO THE CITY OF TAMPA FOR THEIR RECORDS.

**TEMPORARY SIGNALIZATION**

- THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS AND EQUIPMENT REQUIRED TO PROVIDE AND MAINTAIN OPERATION OF TEMPORARY SIGNALIZATION DURING ALL PHASES OF CONSTRUCTION UNTIL PERMANENT SIGNALIZATION IS INSTALLED AND FUNCTIONING PROPERLY
- THE WORK INCLUDES ALL EVACUATION, BACKFILL, SHEETING, SHORING, BRACING, INSTALLATION OF WOOD SIGNAL POLES, GUY WIRING, SIGNAL HEADS AND CONNECTING HARDWARE, SPANWIRE, MESSENGER WIRE, SIGNAL CABLE, ELECTRICAL SERVICE, WIRE AND SERVICE ATTACHMENT, CONTROLLER AND POLE MOUNTED CABINET; RELOCATION OF SIGNAL HEADS DURING CONSTRUCTION PHASING; AND ALL OTHER WORK AND HARDWARE INCIDENTAL TO PROVIDING AND MAINTAINING THE OPERATION OF TEMPORARY SIGNALIZATION.
- PAYMENT IN FULL FOR TEMPORARY SIGNALIZATION SHALL BE INCLUDED IN PAY ITEM NO. 102-1, MAINTENANCE OF TRAFFIC, AND NO SEPARATE PAYMENT SHALL BE MADE.

THE CONTRACTOR SHALL NOTIFY THE APPROPRIATE UTILITY COMPANY TWO FULL WORKING DAYS IN ADVANCE OF ANY EXCAVATION INVOLVING ITS UTILITIES SO THAT A COMPANY REPRESENTATIVE CAN BE PRESENT. THE LOCATION OF THE UTILITIES SHOWN IN THE PLANS ARE APPROXIMATE ONLY. THE EXACT LOCATION SHALL BE DETERMINED BY THE CONTRACTOR DURING CONSTRUCTION.

COMPANIES	CONTACT	TELEPHONE NUMBERS
CITY OF TAMPA WATER	JANICE DAVIS	(813) 274-7096
CITY OF TAMPA WASTE WATER	DALLAS PRYOR	(813) 274-8936
TAMPA ELECTRIC COMPANY	ARLENE BROWN	(813) 275-3428
TECO PEOPLES GAS	LUIS CASTELLANOS	(813) 275-3743
VERIZON FLORIDA, INC.	MIKE LITTLE	(813) 627-8345

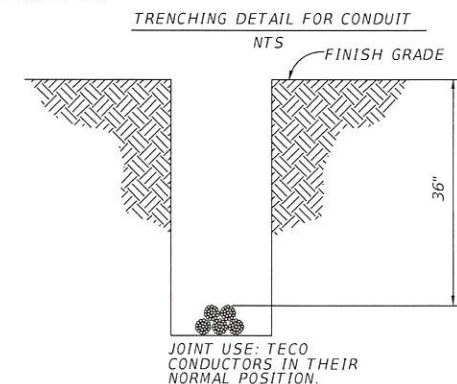
THE CONTRACTOR IS RESPONSIBLE FOR ALL UTILITY COORDINATION.

**CONDUIT**

- CONDUIT SHALL BE INSTALLED, BACKFILLED, AND RESTORED IN ACCORDANCE WITH APPLICABLE STANDARDS AND/OR AS INSTRUCTED BY THE GOVERNING/PERMITTING AGENCY. MINIMUM DEPTH OF CONDUIT SHALL BE 36".
- TYPE V CONTROLLER BASE SHALL CONTAIN A MIN. OF FOUR CONDUITS. UNUSED CONDUITS TO BE CAPPED IN CABINET AND STUBBED INTO NEAREST SIGNAL PULLBOX. THE CONTROLLER BASE SHALL BE POURED WITH A 12" x 24" OPENING IN THE BASE FOR CONDUIT ACCESS.
- ALL CONDUIT SHALL BE 2" PVC MIN., UNLESS OTHERWISE SPECIFIED.
- THE TERMINATION ENDS OF ALL POLYVINYL CHLORIDE (PVC) PLASTIC CONDUIT ENTERING ALL PULLBOXES AND CABINET BASES SHALL BE FITTED WITH AN END BELL DUCT FITTING PRIOR TO ANY PULL-LINE OR CABLE INSTALLATION.
- CONTACT THE CITY OF TAMPA SIGNAL SHOP AND WAYNE CORNELISON AT 813-622-1966 FOR THE TYPE AND MAKE OF PULLING TAPE AND A 14 GAUGE XHHW WIRE FOR TRACING SHALL BE INSTALLED IN ALL CONDUITS WHICH ARE TO RECEIVE CABLE AT A FUTURE TIME. AT LEAST THREE FEET OF PULL-LINE SHALL BE ACCESSIBLE AT EACH CONDUIT TERMINATION AND SECURED WITHIN THE PULLBOX OR PLACE OF TERMINATION.
- DETECTABLE LOCATING TAPE SHALL BE PLACED OVER THE CENTERLINE OF ALL PVC PIPES AT ONE FOOT BELOW GRADE. PAYMENT FOR DETECTABLE TAPE IS INCLUDED IN THE PAY ITEM FOR CONDUIT.
- IT SHOULD BE NOTED THAT NO TEST BORINGS WERE MADE WHERE CONDUIT RUNS ARE TO BE INSTALLED BY JACKING OR TRENCHING.
- ALL CONDUIT WITH PULL-LINE INSTALLED SHALL BE SEALED AND CAPPED TO AVOID DEBRIS AND SOIL FROM ENTERING DURING CONSTRUCTION.
- CONDUIT TRENCH UNDER PAVEMENT SHALL BE STABILIZED WITH 12" OF TYPE "C" STABILIZATION. PAYMENT SHALL BE INCLUDED IN PAY ITEM "CONDUIT (UNDER PAVEMENT)" AND NO OTHER ADDITIONAL COMPENSATION WILL BE PROVIDED.
- CONTACT THE CITY OF TAMPA SIGNAL SHOP AND WAYNE CORNELISON AT 813-622-1966 FOR THE APPROVAL OF PULL BOXES USED FOR PULLING COPPER OR FIBER OPTIC CABLE. GROUNDING FOR PULL BOXES SHALL BE INCLUDED IN THIS PAY ITEM.
- ALL KNOWN EXISTING CONDUIT THAT WILL BE IMPACTED/DAMAGED BY THE PROJECT HAS BEEN SHOWN AS NEW CONDUIT IN THE PLANS. THE CONTRACTOR SHALL REVIEW THE EXISTING CONDITIONS AND ADDITIONAL CONDUIT IF NEEDED TO BE REPLACED SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
- SPLICING CABLES AND JUMPING POLE TO POLE IS NOT ALLOWED.
- NO SPLICING INTERCONNECT IN PULL BOXES. NEW CABLE SHALL BE RUN FROM NEW CONTROLLER TO AERIAL COMMUNICATION SPLICE ENCLOSURE LOCATED AT THE NORTH END OF THE INTERSECTION (SEE PLAN SHEET).
- NEW CABLE SHALL BE INSTALLED TO ALL NEW AND EXISTING SIGNALIZATION POLES, VEHICLE SIGNALS, PEDESTRIAN SIGNALS, ETC.
- CONTRACTOR SHALL HAVE SEPARATE PULL BOXES AND CONDUIT FOR:
  - LOW VOLTAGE
  - HIGH VOLTAGE, CAMERA, MATRIX DETECTION (ALL 3 IN THE SAME PULL BOX AND CONDUIT)
  - POWER FEED
  - COMMUNICATION (INTERCONNECT)


**PAY ITEM NOTES:**

- 660-3-11: PAY ITEM FOR ALL OF THE CABINET RELATED EQUIPMENT FOR THE MICROWAVE VEHICLE DETECTION SYSTEM COMPATIBLE WITH CITY STANDARDS. INCLUDES ALL NECESSARY CARDS, SOFTWARE, ELECTRICAL CONNECTIONS IN THE CABINET AND CABLE OUT TO THE DETECTOR MOUNTED ON THE POLE TO MAKE THIS A FULLY FUNCTIONING DETECTION SYSTEM WHEN USED WITH PAY ITEM 660-3-12.
- 660-3-12: PAY ITEM FOR ALL OF THE ABOVE GROUND EQUIPMENT FOR THE MICROWAVE VEHICLE DETECTION SYSTEM COMPATIBLE WITH CITY STANDARDS. INCLUDES ALL NECESSARY MOUNTING BRACKETS, WIRING, CONNECTIONS, ETC TO MAKE THIS A FULLY FUNCTIONING DETECTION SYSTEM WHEN USED WITH PAY ITEM 660-3-12.



*Edwin Ponce*  
4/3/14

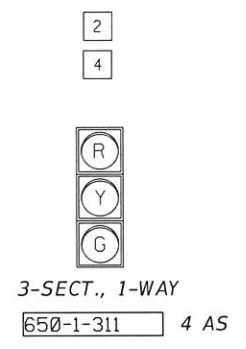
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NO.	DATE	DESCRIPTION	APPROVED


**CITY OF TAMPA**  
**TRANSPORTATION DIVISION**  
 308 E. JACKSON STREET  
 TAMPA, FL. 33602

PREPARED BY:  
**Garrett Engineering Group, Inc.**  
 120 10TH AVENUE NORTH  
 SAINT PETERSBURG, FL. 33701  
 CERTIFICATE OF AUTHORIZATION NO.: 00028424  
 ERBIE A. GARRETT, P.E. NO.: 45219

NAME	DATE	APPROVED BY:
DESIGNED BY: JL	09/13/13	
DRAWN BY: JRT	09/13/13	
CHECKED BY: EAG	09/13/13	
SUPERVISED BY: Erbie A. Garrett, P.E.		

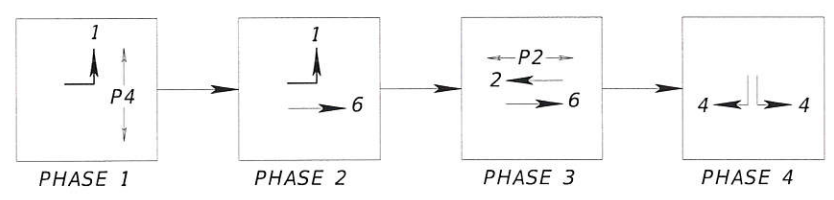
BAYSHORE PHASE II: FROM S. HOWARD AVE. TO S. ROME AVE.		PROJECT NO.	SHEET NO.
<b>GENERAL NOTES</b>		872900	T-3



4 EA	690-10
1 EA	690-32-2
1 EA	690-50
3 EA	690-60
1 PI	690-90
1 PI	690-100

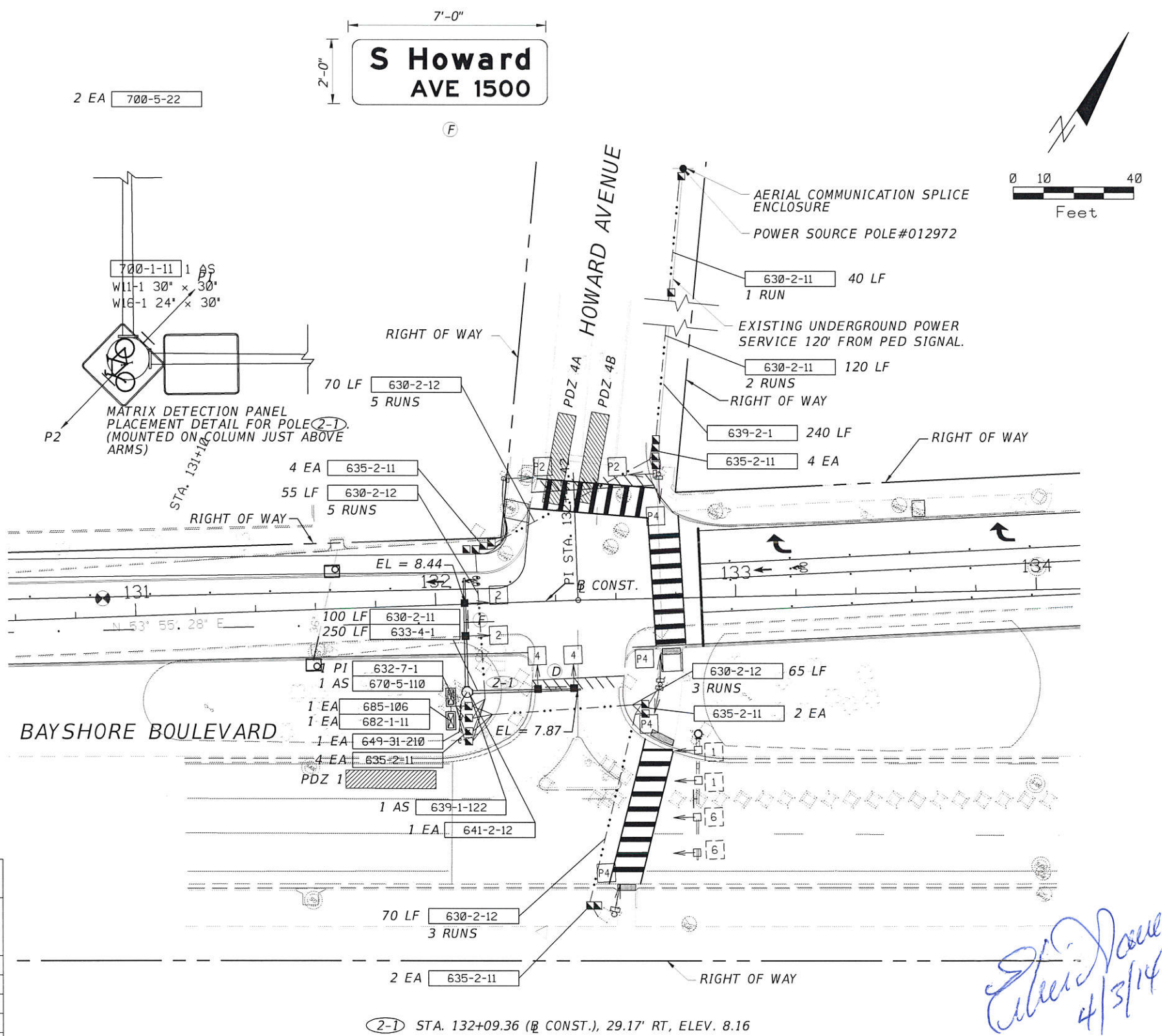
- NOTES:**
1. MAIN STREET IS BAYSHORE BLVD. MINOR STREET IS HOWARD AVE. FLASHING OPERATION IS YELLOW ON BAYSHORE BLVD AND RED ON HOWARD AVE.
  2. THE CONTROLLER SHALL BE WIRED FOR S.O.P. 10, BUT INITIAL OPERATION AS MODIFIED S.O.P. 12 (SEE DIAGRAM ON THIS SHEET).
  3. THE CONTRACTOR SHALL PROVIDE SIGNAL CABLE (APPROPRIATE NUMBER OF CONDUCTORS) FOR THE FUTURE INSTALLATION OF 3 OR 5-SECTION SIGNAL HEADS FOR ALL APPROACHES.
  4. SIGNAL TIMINGS ARE TO BE PROVIDED BY THE CITY OF TAMPA.
  5. UPS SHALL BE HOUSED IN A SEPARATE ENCLOSED CABINET.
  6. MATRIX DETECTION PANELS:  
INTENT IS FOR:  
A) P1 TO DETECT SB HOWARD. PANEL SHOULD BE SKEWED TO DETECT WB BAYSHORE BLVD. MOVEMENTS IF NEEDED.  
B) P2 TO DETECT EB BAYSHORE BLVD. MOVEMENTS.
  7. ALL PEDESTRIAN SIGNAL HEADS AND DETECTORS TO REMAIN AS-IS.
  8. ALL CCTV'S AND TRANSMITTERS CURRENTLY ATTACHED TO THE 'EXISTING TO REMAIN' MAST ARM ASSEMBLY WILL BE CONNECTED TO THE NEW CONTROLLER SO THAT THEY REMAIN FULLY FUNCTIONAL.

MODIFIED S.O.P. 12

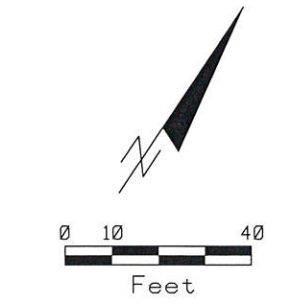


CONTROLLER TIMINGS								
MOVEMENT NUMBER	1	2	3	4	5	6	7	8
MINIMUM GREEN	-	-	-	-	-	-	-	-
EXTENSION	-	-	-	-	-	-	-	-
MAXIMUM GREEN 1	-	-	-	-	-	-	-	-
MAXIMUM GREEN 2	-	-	-	-	-	-	-	-
YELLOW CLEARANCE	-	-	-	-	-	-	-	-
ALL RED	-	-	-	-	-	-	-	-
PEDESTRIAN WALK	-	-	-	-	-	-	-	-
PED. CLEARANCE	-	-	-	-	-	-	-	-
RECALL	-	-	-	-	-	-	-	-

PANEL DETECTION ZONE				
ZONE	PANEL NO.	COVERAGE AREA	DETECTOR OPERATION	DELAY TIME (SEC)
PDZ-1	P2	6'X30'	NORMAL	-
PDZ-4A	P1	6'X30'	NORMAL	-
PDZ-4B	P1	6'X30'	NORMAL	-



**NOTE:**  
THE BASELINE OF CONSTRUCTION HAS BEEN MODIFIED FROM THE PHASE I PLANS, AND STATION EQUATIONS HAVE BEEN ADDED TO THE BEGINNING AND END OF PHASE II CONSTRUCTION.



*Eric Nave*  
4/3/14

REVISIONS NO. DATE DESCRIPTION APPROVED			<b>CITY OF TAMPA</b> <b>TRANSPORTATION DIVISION</b> 306 E. JACKSON STREET TAMPA, FL 33602	PREPARED BY: <b>Garrett Engineering Group, Inc.</b> 120 10TH AVENUE NORTH SAINT PETERSBURG, FL 33701 CERTIFICATE OF AUTHORIZATION NO.: 00028424 ERBIE A. GARRETT, P.E. NO.: 45219	NAME DATE APPROVED BY: DESIGNED BY: JL 09/13/13 DRAWN BY: JRT 09/13/13 CHECKED BY: EAG 09/13/13 SUPERVISED BY: Erbie A. Garrett, P.E.	BAYSHORE PHASE II: FROM S. HOWARD AVE. TO S. ROME AVE. <b>SIGNALIZATION PLAN (2)</b>	PROJECT NO. 872900	SHEET NO. T-5
Townsend, James 3/12/2014 5:03:01 PM					N:\PROJECTS\BayshoreGandyPlatt\AutoCad\signals\plansg02.dwg			

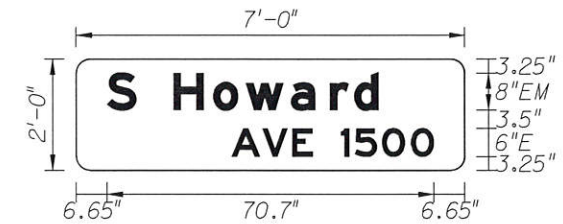
SIGN NAME		D	QTY	1	SIGN NUMBER		STATION(S)	
PANEL		BORDER		none				
WIDTH	7'-6"	WIDTH						
HEIGHT	2'-0"	RADII						
LEGEND	White	COLOR	White					
COLOR	Green							
SYMBOL(S)	ANGLE	X	Y	WID	HT			
SIGN NUMBER	NUMBER OF POSTS	CLEARANCE Edge of Lot	COLUMN SIZE	AVERAGE LENGTH				



NO. OF LIGHT FIXTURES	FIXTURE SPACING	PHOTOMETRIC CURVE	WATT	VOLTAGE

COPY	B	a	y	s	h	o	r	e	L										
SPACE	16.1	8	7.6	8.2	7.8	7.8	7.9	5.2	5.3	16.1	57.8								
COPY	2	1	0	0	B	L	V	D	2	4	0	0	L						
SPACE	5.8	5.9	3.2	6.2	5	6	6.1	5	6.5	4.9	6	5.5	6.8	6.2	5	5.8	78.4		
COPY																			
SPACE																			
COPY																			
SPACE																			
COPY																			
SPACE																			
COPY																			
SPACE																			

SIGN NAME		F	QTY	1	SIGN NUMBER		STATION(S)	
PANEL		BORDER		none				
WIDTH	6'-0"	WIDTH						
HEIGHT	2'-0"	RADII						
LEGEND	White	COLOR	White					
COLOR	Green							
SYMBOL(S)	ANGLE	X	Y	WID	HT			
SIGN NUMBER	NUMBER OF POSTS	CLEARANCE Edge of Lot	COLUMN SIZE	AVERAGE LENGTH				



NO. OF LIGHT FIXTURES	FIXTURE SPACING	PHOTOMETRIC CURVE	WATT	VOLTAGE

COPY	S	H	o	w	a	r	d	L											
SPACE	6.6	6.5	8	8.5	7	9.8	8.5	5.2	5.3	6.6	58.7								
COPY	A	V	E	1	5	0	0	L											
SPACE	33.6	6.6	6.5	4.5	6	3	5.9	6.2	5	6.6	43.8								
COPY																			
SPACE																			
COPY																			
SPACE																			
COPY																			
SPACE																			
COPY																			
SPACE																			

SIGN NAME			QTY		SIGN NUMBER		STATION(S)	
PANEL		BORDER						
WIDTH		WIDTH						
HEIGHT		RADII						
LEGEND		COLOR						
COLOR								
SYMBOL(S)	ANGLE	X	Y	WID	HT			
SIGN NUMBER	NUMBER OF POSTS	CLEARANCE Edge of Lot	COLUMN SIZE	AVERAGE LENGTH				

NO. OF LIGHT FIXTURES	FIXTURE SPACING	PHOTOMETRIC CURVE	WATT	VOLTAGE

SIGN NAME			QTY		SIGN NUMBER		STATION(S)	
PANEL		BORDER						
WIDTH		WIDTH						
HEIGHT		RADII						
LEGEND		COLOR						
COLOR								
SYMBOL(S)	ANGLE	X	Y	WID	HT			
SIGN NUMBER	NUMBER OF POSTS	CLEARANCE Edge of Lot	COLUMN SIZE	AVERAGE LENGTH				

NO. OF LIGHT FIXTURES	FIXTURE SPACING	PHOTOMETRIC CURVE	WATT	VOLTAGE

COPY																	
SPACE																	
COPY																	
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SPACE																	

*Mark A. Gillette*  
4/3/14

REVISIONS			APPROVED
NO.	DATE	DESCRIPTION	



**CITY OF TAMPA**  
TRANSPORTATION DIVISION  
306 E. JACKSON STREET  
TAMPA, FL 33602

PREPARED BY: **Volkert, Inc.**  
Certificate of Authorization No. 4641  
Mark A. Gillette, PE 48085  
1408 N. Westshore Boulevard, Suite 600  
Tampa, Florida 33607  
Phone: 813.875.1365  
www.volkert.com

DESIGNED BY:	JRT	DATE	10/17/13
DRAWN BY:	JRT	DATE	10/17/13
CHECKED BY:	MAG	DATE	10/17/13
SUPERVISED BY:	Mark A. Gillette, P.E.		

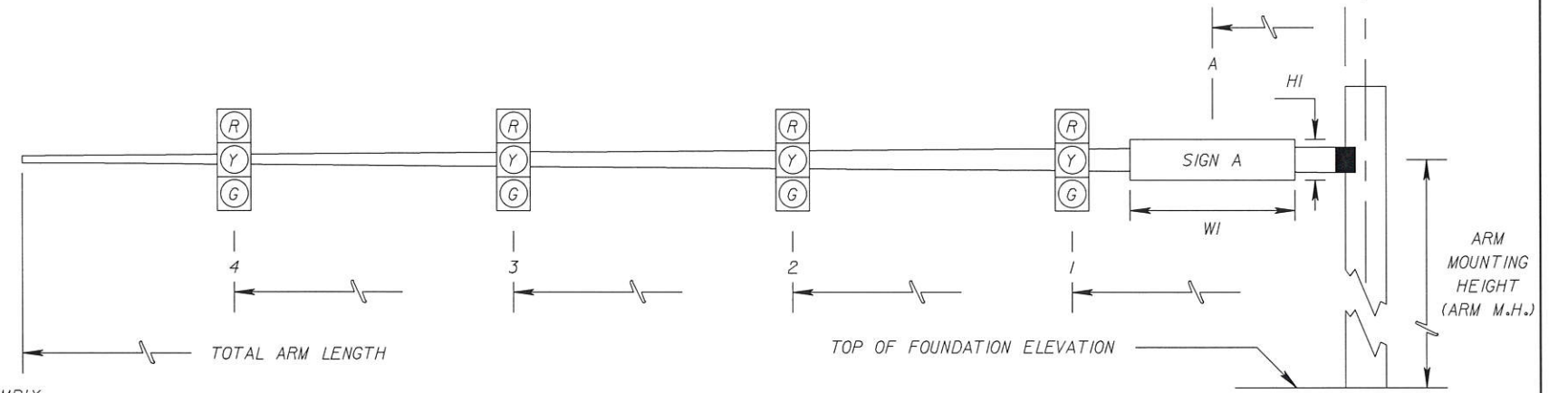
APPROVED BY:  
Townsend, James  
3/12/2014 5:03:08 PM

BAYSHORE PHASE II: FROM S. HOWARD AVE. TO S. ROME AVE.  
**GUIDE SIGN WORKSHEET**

PROJECT NO. 872900  
SHEET NO. T-8

ARM NO. 2 - DOUBLE ARM POLE ORIENTATION TO BE MEASURED IN A COUNTER CLOCKWISE DIRECTION FROM ROADWAY ARM NO. 1.

ARM NO. 1 - SINGLE ARM POLE OR LONGEST ARM FOR DOUBLE ARM POLE.



\*DENOTES NUMBER OF SECTIONS IN SIGNAL HEAD ASSEMBLY.

ID NO.	SHEET NO.	LOCATION BY STA.	TOP OF FOUNDATION ELEVATION	RDWY ARM	CROWN ELEV.	SIGNAL V/H	BACK PLATES Y/N	PED. SIGNAL Y/N	SIGNAL DATA													TOTAL ARM LENGTH	ARM M.H.	∠ BETWEEN DUAL ARMS 90/270	SIGN DATA																												
									DISTANCE FROM POLE																DISTANCE FROM POLE / HEIGHT AND WIDTH OF SIGN																												
									1	*	2	*	3	*	4	*	5	*	A	HI	WI				B	H2	W2	C	H3	W3	D	H4	W4	E	H5	W5																	
2-1	T-5	132+09.36	8.16'	1	8.44'	V	Y	N	22.5'	3	34.5'	3																			36	20.7	90	28.5'	2'	7.5'																	
				2	7.87'	V	Y	N	17.5'	3	28.4'	3																			36	20.7		22.9'	2'	6.0'																	

*James Townsend*  
4/3/14

NO.	DATE	DESCRIPTION	APPROVED



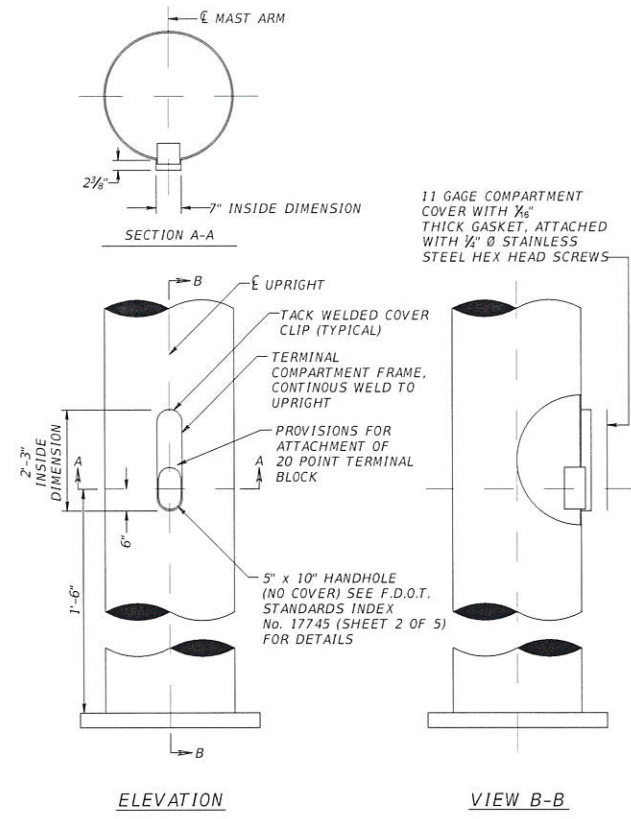
**CITY OF TAMPA**  
**TRANSPORTATION DIVISION**  
306 E. JACKSON STREET  
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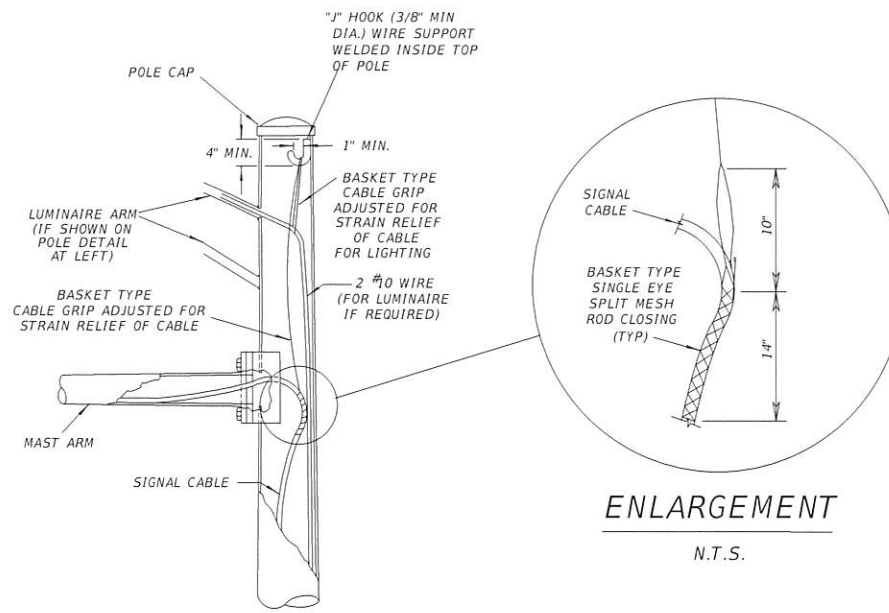
DESIGNED BY:	NAME	DATE	APPROVED BY:
	JL	09/13/13	
DRAWN BY:	JRT	09/13/13	
CHECKED BY:	EAG	09/13/13	
SUPERVISED BY:	Ernie A. Garrett, P.E.		

BAYSHORE PHASE II: FROM S. HOWARD AVE. TO S. ROME AVE.  
**MAST ARM TABULATION**

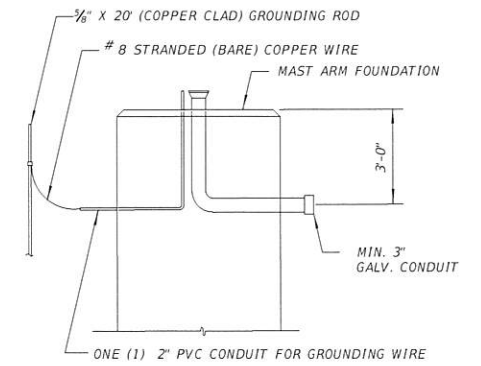
PROJECT NO.	SHEET NO.
872900	T-10



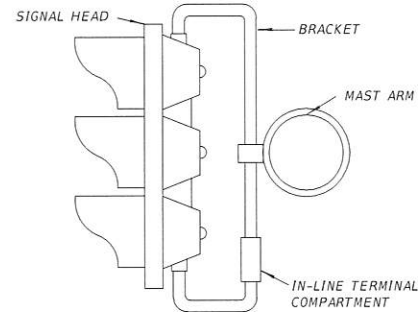
TERMINAL COMPARTMENT DETAILS  
N.T.S.



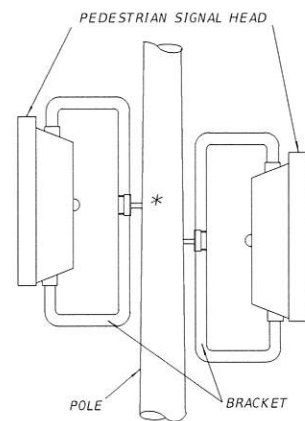
TYPICAL CABLE STRAIN RELIEF DETAIL  
N.T.S.



ELECTRICAL CONDUIT AND GROUNDING DETAIL  
N.T.S.

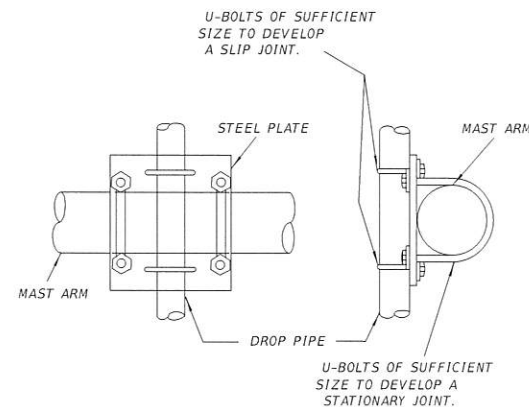


SIGNAL HEAD BRACKET ATTACHMENT DETAIL  
N.T.S.

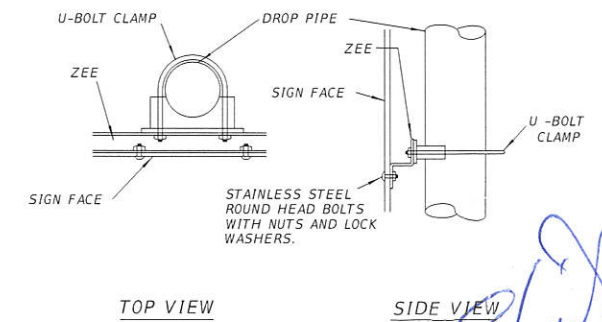


PEDESTRIAN HEAD BRACKET ATTACHMENT DETAIL  
N.T.S.

\* ENTRY HOLES TO THE UPRIGHT PIPE FOR TWO-WAY PEDESTRIAN SIGNAL HEADS SHALL HAVE A 6" MIN. VERTICAL OFFSET, SHOWN AT 180° FOR CLARITY.



SIGN ARM BRACKET  
N.T.S.



DROP PIPE SIGN DETAIL  
N.T.S.

*John J. ...*  
4/3/14

NO.	DATE	REVISIONS DESCRIPTION	APPROVED



CITY OF TAMPA  
TRANSPORTATION DIVISION  
306 E. JACKSON STREET  
TAMPA, FL 33602

PREPARED BY:  
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	JL	09/13/13	
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	EAG	09/13/13	
	Ernie A. Garrett, P.E.		

BAYSHORE PHASE II: FROM S. HOWARD AVE. TO S. ROME AVE.

MAST ARM MISCELLANEOUS DETAILS

PROJECT NO.	SHEET NO.
872900	T-11

STANDARD MAST ARM ASSEMBLIES DESIGN TABLE																	Table Date 01-02-12		
STRUCTURE ID NUMBERS	ASSEMBLY (1) NUMBERS	FIRST ARM			SECOND ARM			UF (deg)	LL (deg)	POLE				SPECIAL DRILLED SHAFT (4)					
		ARM TYPE	FAA (2) (ft.)	FBA (2) (in.)	ARM TYPE	FAA (2) (ft.)	FBA (2) (in.)			POLE TYPE	UAA (3) (ft.)	UB (ft.)	UCA (3) (in.)	DA (ft.)	DB (ft.)	RA	RB	RC	RD (in.)
2-1	EI-EI-TI	EI			EI				90	TI		20.7		11	4.0	11	14		

TABLE NOTES:

(1) ASSEMBLY NUMBER LEGEND

SINGLE ARM:  
ARM TYPE - POLE TYPE = E# - T#

DOUBLE ARM:

FIRST ARM TYPE - SECOND ARM TYPE - POLE TYPE = E# - E# - T#

(2) IF AN ENTRY APPEARS IN COLUMNS "FAA" AND "FBA", A SHORTER ARM IS REQUIRED. THIS IS OBTAINED BY REMOVING LENGTH FROM THE ARM TIP. FOR THESE CASES THE MAST ARM LENGTH SHALL BE SHORTENED FROM "FA" TO "FAA" AND THE TIP DIAMETER SHALL BE INCREASED FROM "FB" TO "FBA".

(3) IF AN ENTRY APPEARS IN COLUMNS "UAA" AND "UCA", A SHORTER POLE IS REQUIRED. THIS IS OBTAINED BY REMOVING LENGTH FROM THE POLE TIP. FOR THESE CASES THE POLE HEIGHT SHALL BE SHORTENED FROM "UA" TO "UAA" AND THE POLE TIP DIAMETER SHALL BE INCREASED FROM "UC" TO "UCA".

GENERAL NOTES:

(1) WORK THIS SHEET WITH THE SIGNAL DESIGNER'S "MAST ARM TABULATION". SEE "MAST ARM TABULATION" FOR SPECIAL INSTRUCTIONS THAT INCLUDE NON-STANDARD HANDHOLE LOCATION, PAINT COLOR, TERMINAL COMPARTMENT REQUIREMENT, AND PEDESTRIAN FEATURES.

(2) WORK THIS SHEET WITH DESIGN STANDARDS INDEX NOS. 17743 AND 17745 AS NECESSARY.

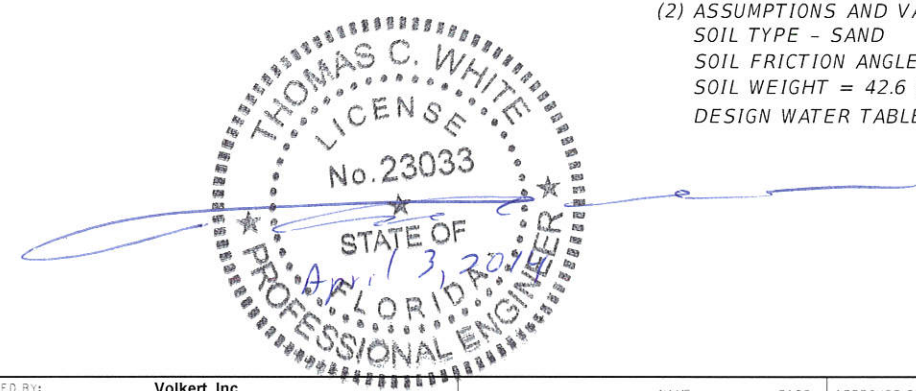
SPECIAL NOTE:


THE CONTRACTOR TO BE RESPONSIBLE FOR MAST ARM MOUNTING HEIGHT TO MEET FDOT CRITERIA

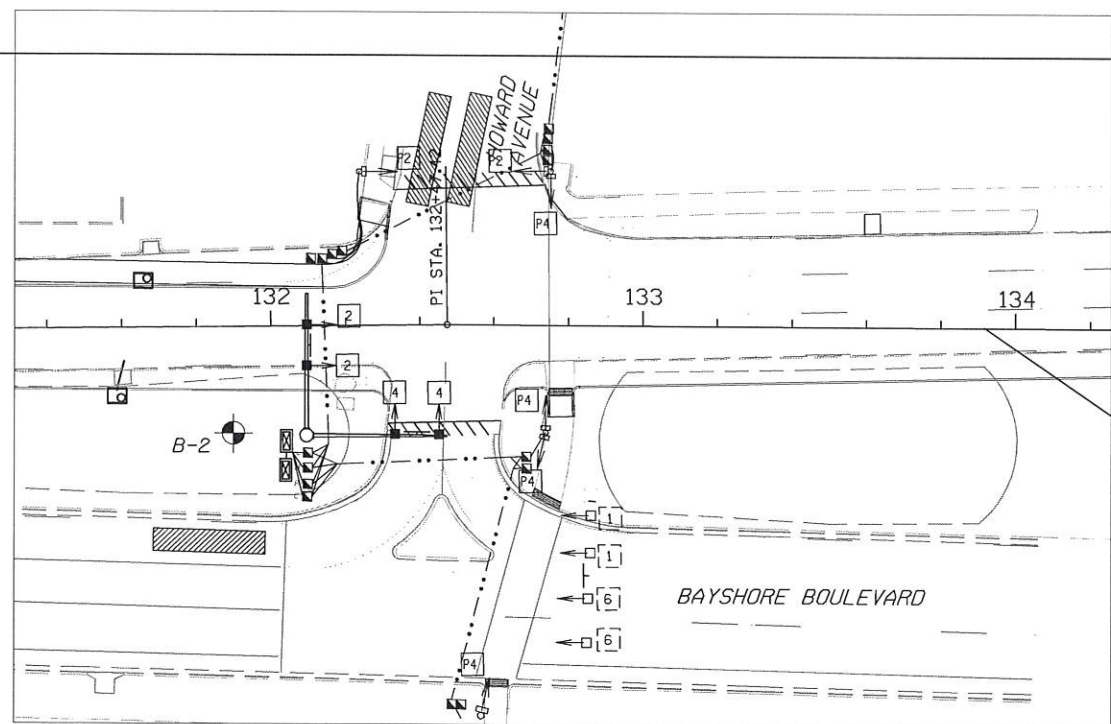
FOUNDATION NOTES:

(1) DESIGN BASED ON BORINGS TAKEN SEALED BY KEVIN H. SCOTT, PE 65514.

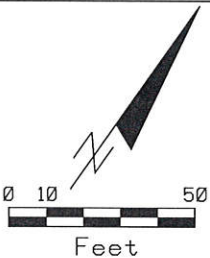
(2) ASSUMPTIONS AND VALUES USED IN DESIGN FOR MASTARM 2-1:  
SOIL TYPE - SAND  
SOIL FRICTION ANGLE = 29 DEG.  
SOIL WEIGHT = 42.6 PCF (SATURATED)  
DESIGN WATER TABLE IS 0 FT BELOW SURFACE.



<p>REVISIONS</p> <table border="1"> <thead> <tr> <th>NO</th> <th>DATE</th> <th>DESCRIPTION</th> <th>APPROVED</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>				NO	DATE	DESCRIPTION	APPROVED													 <p><b>CITY OF TAMPA</b> TRANSPORTATION DIVISION 305 E. JACKSON STREET TAMPA, FL 33602</p>		<p>PREPARED BY: <b>Volkert, Inc.</b> Certificate of Authorization No. 4641 Thomas C. White, PE 23033 1408 N. Westshore Boulevard, Suite 600 Tampa, Florida 33607 Phone: 813.875.1365 www.volkert.com</p>		<table border="1"> <thead> <tr> <th>NAME</th> <th>DATE</th> <th>APPROVED BY:</th> </tr> </thead> <tbody> <tr> <td>DESIGNED BY: KSD</td> <td>09/13/13</td> <td> </td> </tr> <tr> <td>DRAWN BY: KSD</td> <td>09/13/13</td> <td> </td> </tr> <tr> <td>CHECKED BY: EWB</td> <td>09/13/13</td> <td> </td> </tr> <tr> <td>SUPERVISED BY: Thomas C. White, P.E.</td> <td> </td> <td> </td> </tr> </tbody> </table>		NAME	DATE	APPROVED BY:	DESIGNED BY: KSD	09/13/13		DRAWN BY: KSD	09/13/13		CHECKED BY: EWB	09/13/13		SUPERVISED BY: Thomas C. White, P.E.			<p>BAYSHORE PHASE II: FROM S. HOWARD AVE. TO S. ROME AVE.</p> <p><b>TABLE OF VARIABLES FOR STANDARD MAST ARM ASSEMBLIES</b></p>		<p>PROJECT NO. 872900</p>	<p>SHEET NO. T-12</p>
NO	DATE	DESCRIPTION	APPROVED																																									
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SUPERVISED BY: Thomas C. White, P.E.																																												



BORING LOCATION PLAN



LEGEND

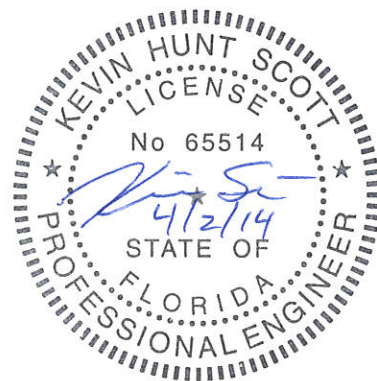
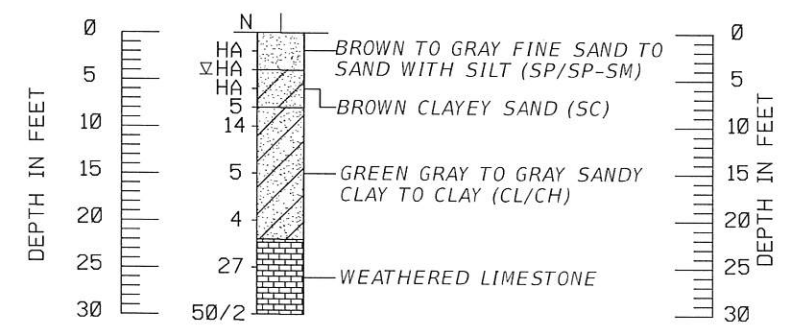
- BROWN TO GRAY FINE SAND TO SAND WITH SILT (SP/SP-SM)
- BROWN SILTY SAND (SM)
- BROWN CLAYEY SAND (SC)
- WEATHERED LIMESTONE
- GREEN GRAY TO GRAY SANDY CLAY TO CLAY (CL/CH)

- APPROXIMATE SPT BORING LOCATION
- GROUNDWATER TABLE
- SP UNIFIED SOIL CLASSIFICATION SYSTEM (ASTM D 2487) GROUP SYMBOL AS DETERMINED BY VISUAL REVIEW AND/OR LABORATORY TESTING
- N NUMBERS TO THE LEFT OF BORINGS INDICATE SPT VALUE FOR 12 INCHES OF PENETRATION (UNLESS OTHERWISE NOTED).
- 50/4 NUMBER OF BLOWS FOR 4 INCHES OF PENETRATION
- HA HAND AUGERED TO VERIFY UTILITY CLEARANCE
- B/L CONST BASELINE OF CONSTRUCTION OF BAYSHORE BOULEVARD

BORING NUMBER	DEPTH	N	SOIL CLASSIFICATION	SOIL UNIT WEIGHT (PCF)		SOIL ANGLE OF FRICTION (DEGREES)	COHESION/ULTIMATE SHEAR STRENGTH (PSF)	EARTH PRESSURE COEFFICIENT	
				γ <sub>SAT</sub>	γ <sub>SUB</sub>			ACTIVE (K <sub>a</sub> )	PASSIVE (K <sub>p</sub> )
				B-2	0 TO 8 8 TO 12 12 TO 22 22 TO 27 27 TO 30			HA TO 5 14 4 TO 5 27 50/2	SP/SP-SM/SC CL/CH CL/CH LIMESTONE LIMESTONE

NOTE: WEATHERED LIMESTONE WAS ENCOUNTERED WITHIN THE BORINGS PERFORMED. THIS MATERIAL IS ROCK-LIKE. EXCAVATION INTO AND THROUGH THIS MATERIAL MAY BE DIFFICULT. THE CONTRACTOR SHOULD BE PREPARED TO HANDLE EXCAVATION INTO AND THROUGH THIS WEATHERED LIMESTONE STRATA.

BOR # B-2  
 STA. 131+90  
 REF. B/L CONST  
 OFF. 28 RT  
 DATE 01/20/2010  
 DRILLER A. Torres  
 HAMMER Safety  
 RIG D-25



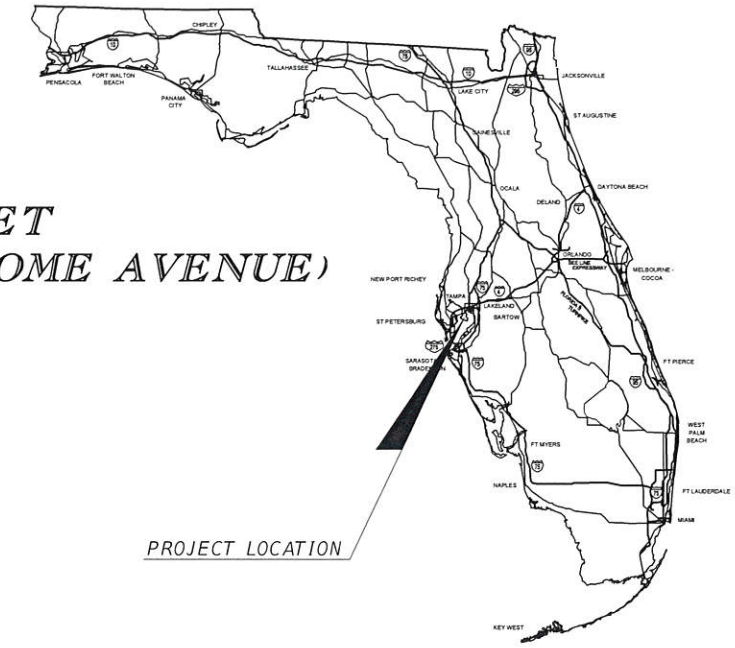
	SAFETY HAMMER	AUTOMATIC HAMMER
GRANULAR MATERIALS-RELATIVE DENSITY	SPT N-VALUE (BLOWS/FT.)	SPT N-VALUE (BLOWS/FT.)
VERY LOOSE	LESS THAN 4	LESS THAN 3
LOOSE	4 to 10	3 to 8
MEDIUM DENSE	10 to 30	8 to 24
DENSE	30 to 50	24 to 40
VERY DENSE	GREATER THAN 50	GREATER THAN 40
SILTS AND CLAYS CONSISTENCY	SPT N-VALUE (BLOWS/FT.)	SPT N-VALUE (BLOWS/FT.)
VERY SOFT	LESS THAN 2	LESS THAN 1
SOFT	2 to 4	1 to 3
FIRM	4 to 8	3 to 6
STIFF	8 to 15	6 to 12
VERY STIFF	16 to 30	12 to 24
HARD	GREATER THAN 30	GREATER THAN 24

REVISIONS NO. DATE DESCRIPTION APPROVED				<p><b>CITY OF TAMPA</b>          TRANSPORTATION DIVISION          306 E. JACKSON STREET          TAMPA, FL. 33602</p>	PREPARED BY: E.O.R.: KEVIN H. SCOTT, P.E. P.E. LICENSE NUMBER 65514	NAME: _____ DATE: _____ DESIGNED BY: _____ DRAWN BY: _____ CHECKED BY: _____ SUPERVISED BY: _____	APPROVED BY: _____ BAYSHORE PHASE II: FROM S. HOWARD AVE. TO S. ROME AVE.	PROJECT NO. 872900	SHEET NO. T-14
TIERRA INC 7351 TEMPLE TERRACE HIGHWAY, TAMPA, FL. 33637 CERTIFICATE OF AUTHORIZATION: 6486					SIGNAL REPORT OF CORE BORINGS				



# CITY OF TAMPA CONTRACT PLANS

## BAYSHORE BOULEVARD FROM WEST GANDY BOULEVARD TO WEST PLATT STREET (PHASE II - FROM SOUTH OF SOUTH HOWARD AVENUE TO SOUTH ROME AVENUE) FINANCIAL PROJECT ID 413092-2-58-01



### INDEX OF SIGNING AND PAVEMENT MARKING PLANS

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<del>S-2 THRU S-3</del>	<del>TABULATION OF QUANTITIES</del>
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<del>S-5 THRU S-6</del>	<del>TABULATION OF QUANTITIES</del>
S-7	SIGNING AND PAVEMENT MARKING GENERAL NOTES
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## SIGNING AND PAVEMENT MARKING PLANS

SHOP DRAWINGS  
TO BE SUBMITTED TO:  
VOLKERT, INC.  
1408 N. WESTSHORE BOULEVARD  
SUITE 600  
TAMPA, FLORIDA 33607  
TELEPHONE: (813) 875-1365  
FAX: (813) 874-7656  
ENGINEERING BUSINESS NO. 00004641

PLANS PREPARED BY:  
VOLKERT, INC.  
1408 N. WESTSHORE BOULEVARD  
SUITE 600  
TAMPA, FLORIDA 33607  
TELEPHONE: (813) 875-1365  
FAX: (813) 874-7656  
ENGINEERING BUSINESS NO. 00004641

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

GOVERNING STANDARDS AND SPECIFICATIONS:  
FLORIDA DEPARTMENT OF TRANSPORTATION,  
DESIGN STANDARDS DATED 2013, AND DIVISION  
II AND III OF THE FLORIDA DEPARTMENT OF  
TRANSPORTATION STANDARD SPECIFICATIONS  
FOR ROAD AND BRIDGE CONSTRUCTION DATED  
2013, AS AMENDED BY CONTRACT DOCUMENTS.

SIGNING AND PAVEMENT MARKING PLANS  
ENGINEER OF RECORD:

MARK A. GILLETTE, P.E.  
P.E. NO.: 48085

*Mark A. Silletta*  
4/3/14

PROJECT MANAGER: MILTON MARTINEZ, P.E.

SHEET  
NO.


S-1

# TABULATION OF QUANTITIES

PAY ITEM NO.	DESCRIPTION	UNIT	SHEET NUMBERS																		TOTAL THIS SHEET		GRAND TOTAL		REF. SHEET
			S-28		S-29		S-30		S-31		S-32		S-33		S-34		S-35		S-36		S-37				
			PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL			
700-1-11	SINGLE SIGN POST, F & I, LESS THAN 12 SF	AS					1				1											2		2	
700-1-12	SINGLE SIGN POST, F & I, 12-20 SF	AS																							
700-1-50	SINGLE SIGN POST, RELOCATE	AS							1													1		1	
700-1-60	SINGLE SIGN POST, REMOVE	AS							1		1											2		2	
705-11-1	DELINEATOR (FLEXIBLE TUBULAR)	EA																							
706-3	RETRO-REFLECTIVE PAVEMENT MARKERS	EA					8		64		21		5									98		98	
*710-11-111	PAINT (STD) (WHITE) (SOLID) (6")	NM					0.026		0.303		0.017		0.032									0.378		0.378	
*710-11-122	PAINT (STD) (WHITE) (SOLID) (8")	LF							47		229											276		276	
*710-11-123	PAINT (STD) (WHITE) (SOLID) (12")	LF							246													246		246	
*710-11-124	PAINT (STD) (WHITE) (SOLID) (18")	LF							4		80											84		84	
*710-11-125	PAINT (STD) (WHITE) (SOLID) (24")	LF							448													448		448	
*710-11-131	PAINT (STD) (WHITE) (SKIP) (6")	GM					0.107		0.064		0.131											0.302		0.302	
*710-11-160	PAINT (STD) (WHITE) (MESSAGE)	EA							4		4		1									9		9	
*710-11-170	PAINT (STD) (WHITE) (ARROW)	EA							9		4		1									14		14	
*710-11-180	PAINT (STD) (WHITE) (YIELD LINE)	LF																							
*710-11-211	PAINT (STD) (YELLOW) (SOLID) (6")	NM					0.062		0.095		0.099		0.032									0.288		0.288	
*710-11-222	PAINT (STD) (YELLOW) (SOLID) (8")	LF																							
*710-11-224	PAINT (STD) (YELLOW) (SOLID) (18")	LF																							
*710-11-231	PAINT (STD) (YELLOW) (SKIP) (6")	GM																							
710-11-290	PAINT (STD) (YELLOW) (ISLAND NOSE)	SF																							
711-11-111	THERMOPLASTIC (STD) (WHITE) (SOLID) (6")	NM					0.026		0.303		0.017		0.032									0.378		0.378	
711-11-122	THERMOPLASTIC (STD) (WHITE) (SOLID) (8")	LF							47		229											276		276	
711-11-123	THERMOPLASTIC (STD) (WHITE) (SOLID) (12")	LF							246													246		246	
711-11-124	THERMOPLASTIC (STD) (WHITE) (SOLID) (18")	LF							4		80											84		84	
711-11-125	THERMOPLASTIC (STD) (WHITE) (SOLID) (24")	LF							448													448		448	
711-11-131	THERMOPLASTIC (STD) (WHITE) (SKIP) (6")	GM					0.107		0.064		0.131		0.032									0.302		0.302	
711-11-160	THERMOPLASTIC (STD) (WHITE) (MESSAGE)	EA							4		4		1									9		9	
711-11-170	THERMOPLASTIC (STD) (WHITE) (ARROW)	EA							9		4		1									14		14	
711-11-180	THERMOPLASTIC (STD) (WHITE) (YIELD LINE)	LF																							
711-11-211	THERMOPLASTIC (STD) (YELLOW) (SOLID) (6")	NM					0.062		0.095		0.099		0.032									0.288		0.288	
711-11-222	THERMOPLASTIC (STD) (YELLOW) (SOLID) (8")	LF																							
711-11-224	THERMOPLASTIC (STD) (YELLOW) (SOLID) (18")	LF																							
711-11-231	THERMOPLASTIC (STD) (YELLOW) (SKIP) (6")	GM																							
711-17	THERMOPLASTIC REMOVAL	SF																							

*Mark A. Gillette*  
4/3/14

\*PAY ITEMS ARE PAID FOR UNDER MAINTENANCE OF TRAFFIC, LUMP SUM - ITEM NO. 102-1


	<b>CITY OF TAMPA</b> <b>TRANSPORTATION DIVISION</b> <small>305 E. JACKSON STREET TAMPA, FL 33602</small>	PREPARED BY: <b>Volkert, Inc.</b> Certificate of Authorization No. 4641 Mark A. Gillette, PE 48085 1408 N. Westshore Boulevard, Suite 600 Tampa, Florida 33607 Phone: 813.875.1365 www.volkert.com	DESIGNED BY: JRT 10/17/13 DRAWN BY: JRT 10/17/13 CHECKED BY: MRG 10/17/13 SUPERVISED BY: Mark A. Gillette, P.E.	APPROVED BY:  	BAYSHORE PHASE II: FROM S. HOWARD AVE. TO S. ROME AVE.  	PROJECT NO. 872900	SHEET NO. S-4
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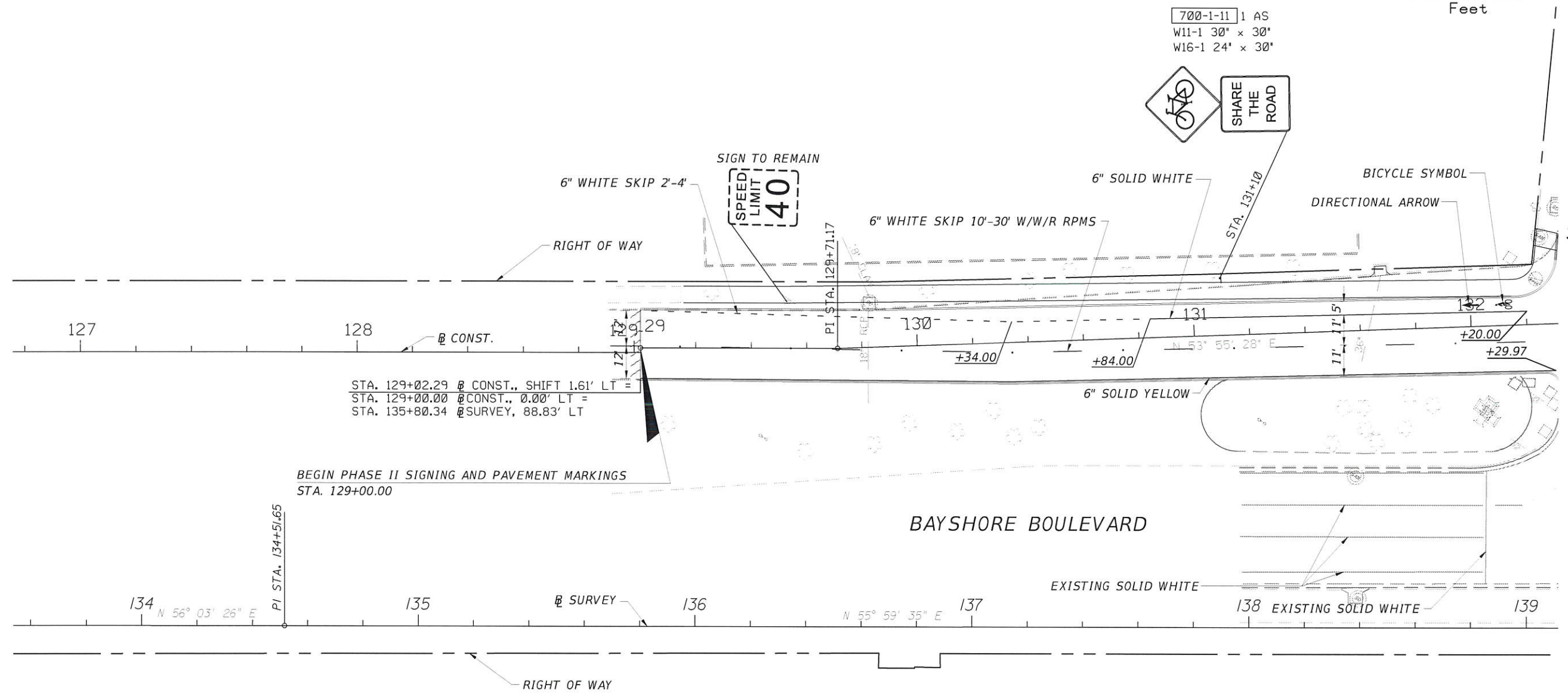
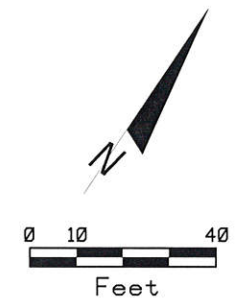
## TABULATION OF QUANTITIES

SIGNING AND PAVEMENT MARKING GENERAL NOTES

1. PAVEMENT MARKINGS SHALL BE PLACED AS SHOWN IN THE PLANS AND THE APPROPRIATE F.D.O.T. DESIGN STANDARDS INDEXES.
2. CAUTION SHOULD BE EXERCISED WHILE RELOCATING EXISTING SIGNS SO AS TO PREVENT DAMAGE TO THE SIGNS. IF THE SIGNS ARE DAMAGED BEYOND USE, AS DETERMINED BY THE ENGINEER, THEY SHALL BE REPLACED BY THE CONTRACTOR AT HIS EXPENSE.
3. THE SIGN LOCATIONS SHOWN ARE APPROXIMATE AND MAY REQUIRE FIELD ADJUSTMENT AS DIRECTED BY THE ENGINEER.
4. ANY EXISTING SIGN TO REMAIN THAT IS DISTURBED DURING CONSTRUCTION OR RELOCATED SHALL BE RESET TO CURRENT STANDARDS FOR HEIGHT, OFFSET, AND METHOD OF INSTALLATION. COST OF THIS WORK SHALL BE REFLECTED IN THE PAY ITEM No. 102-1 IN THE SUMMARY OF ROADWAY PAY ITEMS.
5. ALL PEDESTRIAN CROSSING SIGNS INCLUDING SUPPLEMENTAL PANELS SHALL HAVE FLUORESCENT YELLOW-GREEN SHEETING.
6. ALL FINAL PAVEMENT MARKINGS ARE TO BE THERMOPLASTIC UNLESS OTHERWISE NOTED ON THE PLAN SHEETS.
7. ANY PAVEMENT MARKINGS REMOVED DURING GRANITE CURB RESETTING SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
8. ALL PAVEMENT MESSAGES SHALL BE PREFORMED THERMOPLASTIC (SEE FDOT INDEX 17346 AND 17347).

*Mark A. Gillette*  
4/3/14

REVISIONS					<b>CITY OF TAMPA TRANSPORTATION DIVISION</b> <small>306 E. JACKSON STREET TAMPA, FL 33602</small>	PREPARED BY: <b>Volkert, Inc.</b> <small>Certificate of Authorization No. 4641 Mark A. Gillette, PE 48085 1408 N. Westshore Boulevard, Suite 600 Tampa, Florida 33607 Phone: 813.875.1365 www.volkert.com</small>	NAME		DATE		APPROVED BY:	PROJECT NO.	SHEET NO.		
NO.	DATE	DESCRIPTION	APPROVED				DESIGNED BY:	JRT	10/17/13	DRAWN BY:				JRT	10/17/13
												SIGNING AND PAVEMENT MARKING GENERAL NOTES		872900	S-7



STA. 129+02.29 @ CONST., SHIFT 1.61' LT =  
 STA. 129+00.00 @ CONST., 0.00' LT =  
 STA. 135+80.34 @ SURVEY, 88.83' LT

BEGIN PHASE II SIGNING AND PAVEMENT MARKINGS  
 STA. 129+00.00

NOTE:  
 THE BASELINE OF CONSTRUCTION HAS BEEN MODIFIED  
 FROM THE PHASE I PLANS, AND STATION EQUATIONS  
 HAVE BEEN ADDED TO THE BEGINNING AND END OF  
 PHASE II CONSTRUCTION.

*Mark A. Gillette*  
 4/3/14

REVISIONS			
NO.	DATE	DESCRIPTION	APPROVED



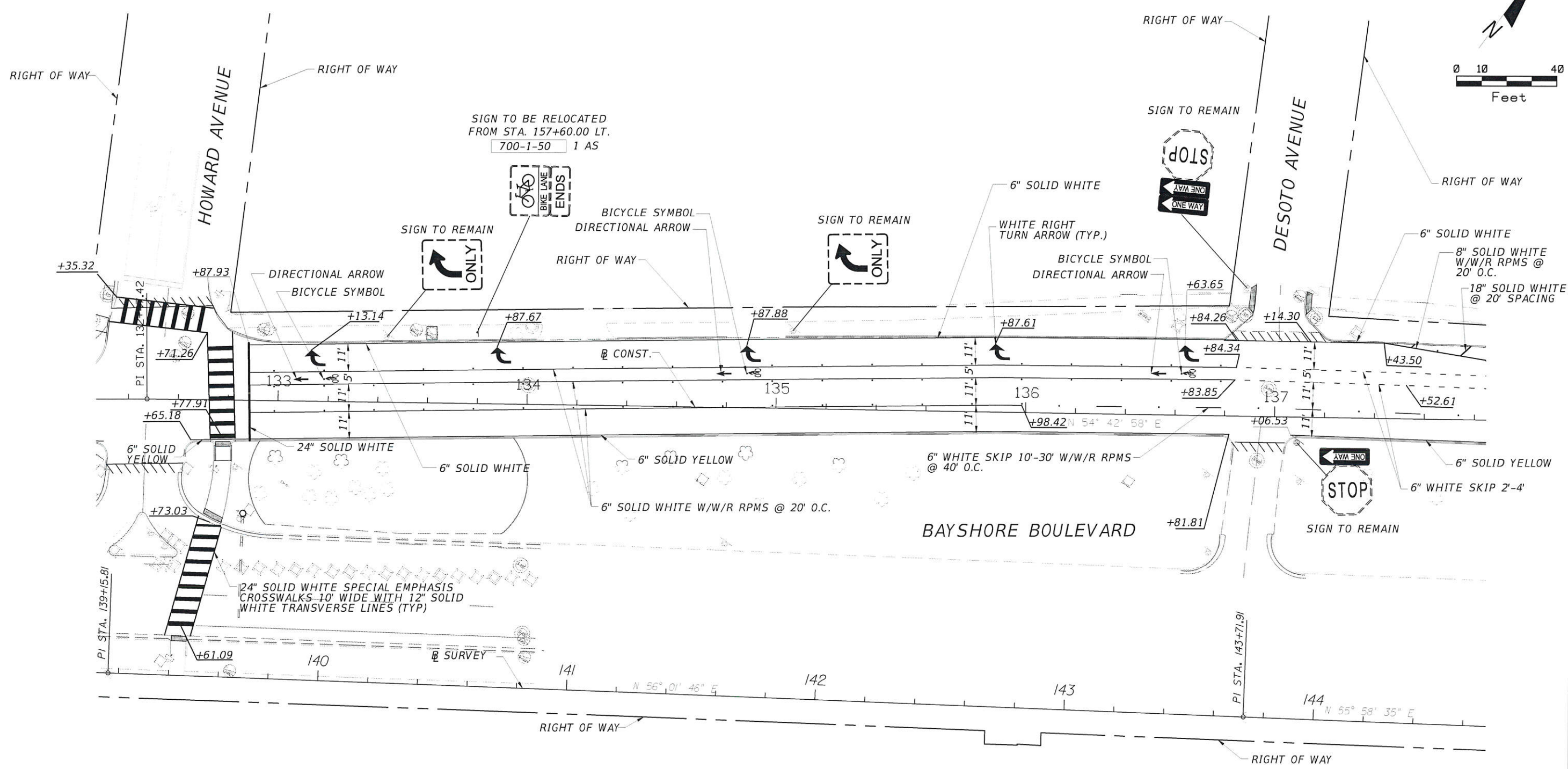
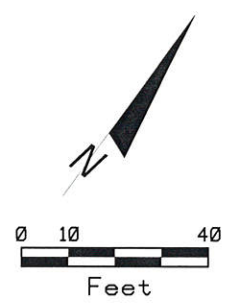
**CITY OF TAMPA**  
**TRANSPORTATION DIVISION**  
 306 E. JACKSON STREET  
 TAMPA, FL 33602

PREPARED BY:  
**Volkert, Inc.**  
 Certificate of Authorization No. 4641  
 Mark A. Gillette, PE 48085  
 1408 N. Westshore Boulevard, Suite 600  
 Tampa, Florida 33607  
 Phone: 813.875.1365  
 www.volkert.com

NAME	DATE	APPROVED BY:
DESIGNED BY: JRT	10/17/13	
DRAWN BY: JRT	10/17/13	
CHECKED BY: MAG	10/17/13	
SUPERVISED BY: Mark A. Gillette, P.E.		

BAYSHORE PHASE II: FROM S. HOWARD AVE. TO S. ROME AVE.  
**SIGNING AND PAVEMENT MARKING  
 PLANS (23)**

PROJECT NO.	SHEET NO.
872900	S-30



*Mark A. Gillette*  
4/3/14

REVISIONS			
NO.	DATE	DESCRIPTION	APPROVED

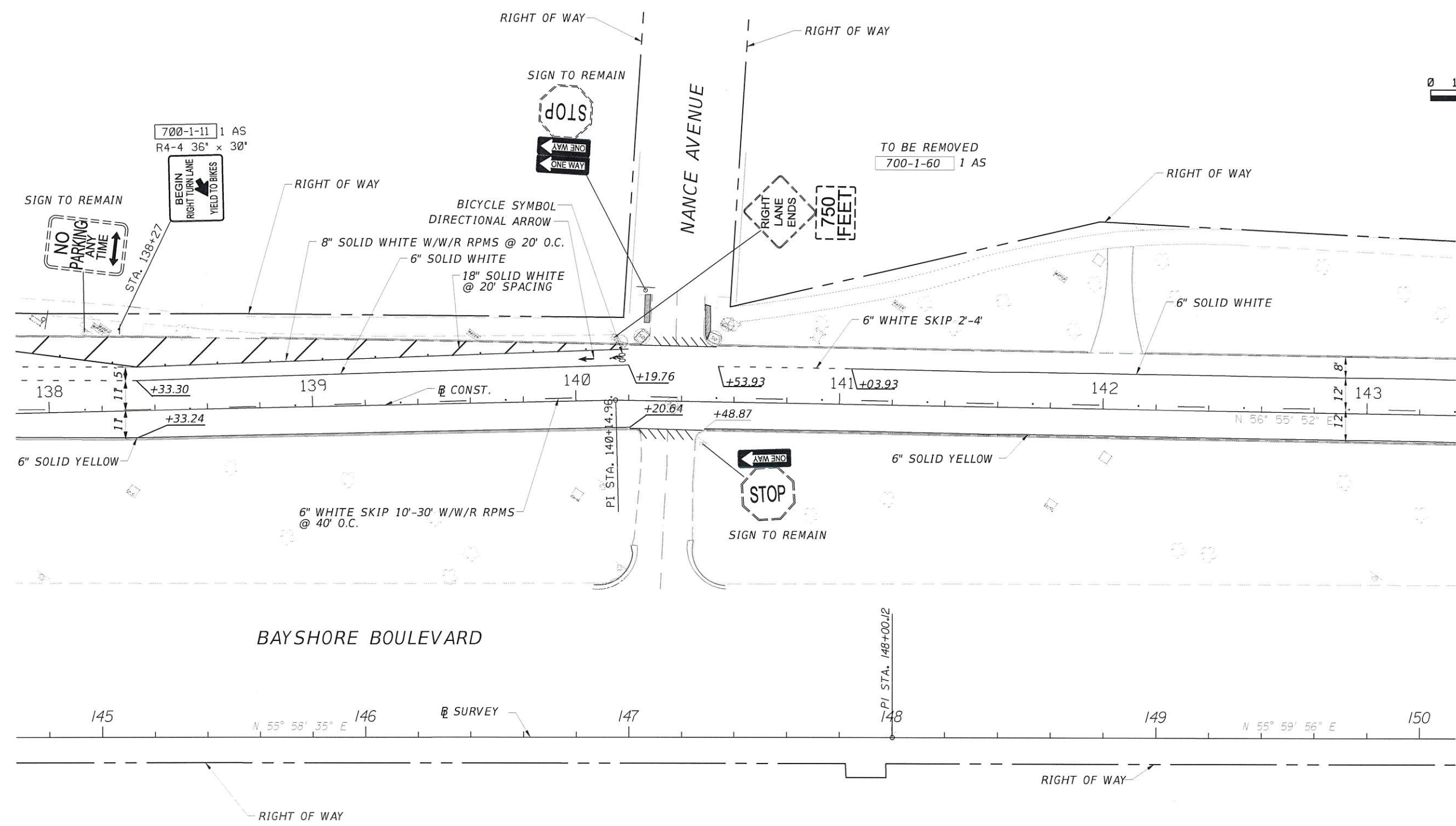
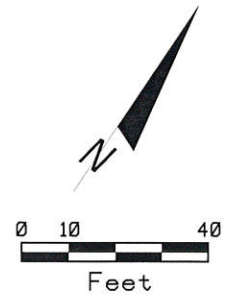


**CITY OF TAMPA**  
**TRANSPORTATION DIVISION**  
306 E. JACKSON STREET  
TAMPA, FL. 33602

PREPARED BY: **Volkert, Inc.**  
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Mark A. Gillette, PE 48085  
1408 N. Westshore Boulevard, Suite 600  
Tampa, Florida 33607  
Phone: 813.875.1365  
www.volkert.com

NAME	DATE	APPROVED BY:
DESIGNED BY: JRT	10/17/13	
DRAWN BY: JRT	10/17/13	
CHECKED BY: MAG	10/17/13	
SUPERVISED BY: Mark A. Gillette, P.E.		

BAYSHORE PHASE II: FROM S. HOWARD AVE. TO S. ROME AVE.	PROJECT NO.	SHEET NO.
<b>SIGNING AND PAVEMENT MARKING PLANS (24)</b>	872900	S-31



*Mark A. Gillette*  
4/13/14

REVISIONS			
NO.	DATE	DESCRIPTION	APPROVED



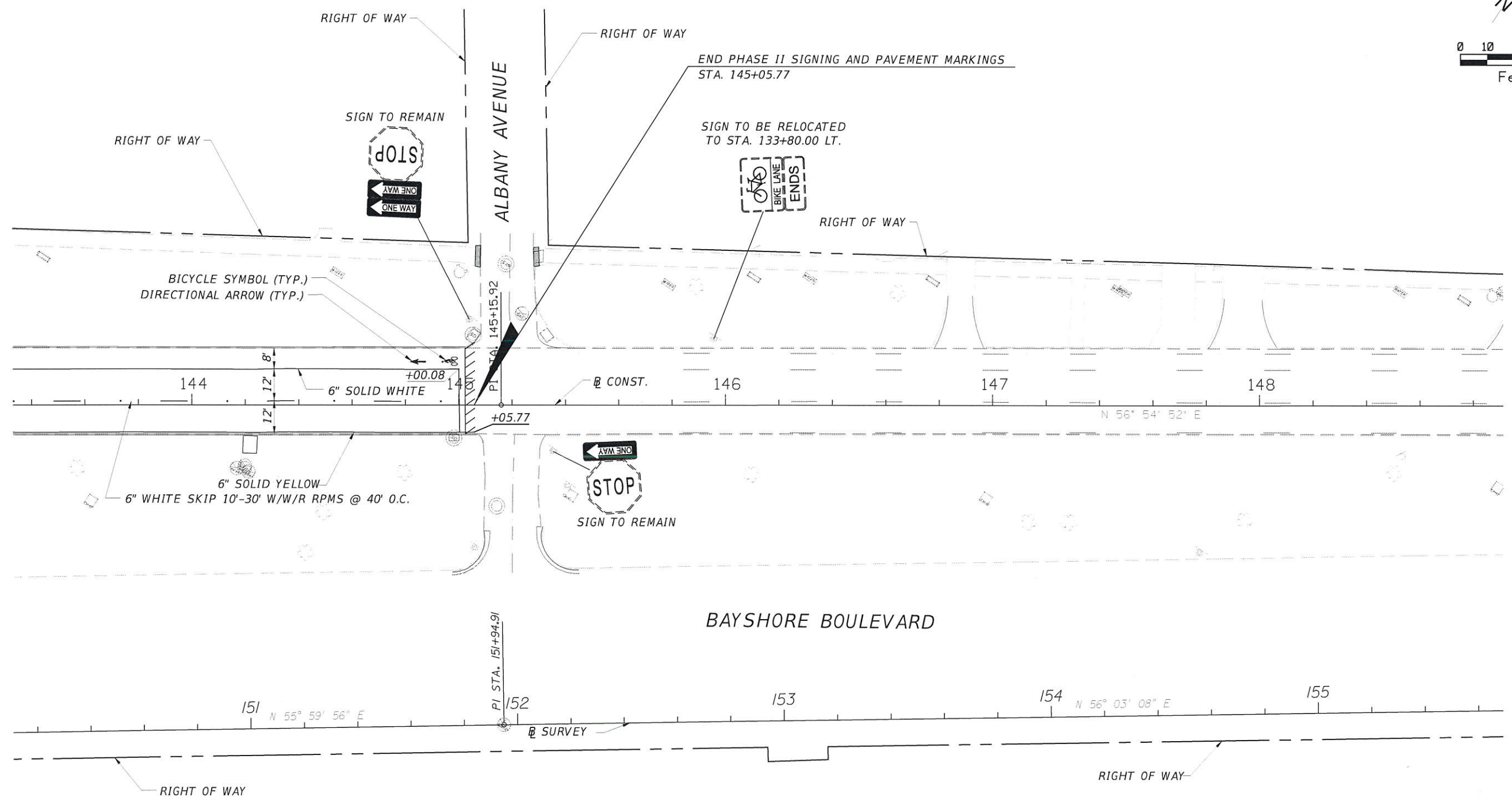
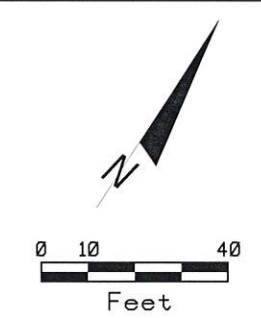
**CITY OF TAMPA**  
**TRANSPORTATION DIVISION**  
306 E. JACKSON STREET  
TAMPA, FL 33602

PREPARED BY:  
**Volkert, Inc.**  
Certificate of Authorization No. 4641  
Mark A. Gillette, PE 48085  
1408 N. Westshore Boulevard, Suite 600  
Tampa, Florida 33607  
Phone: 813.875.1365  
www.volkert.com

NAME	DATE	APPROVED BY:
DESIGNED BY: JRT	10/17/13	
DRAWN BY: JRT	10/17/13	
CHECKED BY: MAG	10/17/13	
SUPERVISED BY: Mark A. Gillette, P.E.		

BAYSHORE PHASE II: FROM S. HOWARD AVE. TO S. ROME AVE.  
**SIGNING AND PAVEMENT MARKING PLANS (25)**

PROJECT NO.	SHEET NO.
872900	S-32



*Mark A. Gillette*  
4/3/14

REVISIONS			
NO.	DATE	DESCRIPTION	APPROVED



**CITY OF TAMPA**  
**TRANSPORTATION DIVISION**  
306 E. JACKSON STREET  
TAMPA, FL 33602

PREPARED BY: **Volkert, Inc.**  
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Mark A. Gillette, PE 48085  
1408 N. Westshore Boulevard, Suite 600  
Tampa, Florida 33607  
Phone: 813.875.1365  
www.volkert.com

NAME	DATE	APPROVED BY:
DESIGNED BY: JRT	10/17/13	
DRAWN BY: JRT	10/17/13	
CHECKED BY: MAG	10/17/13	
SUPERVISED BY: Mark A. Gillette, P.E.		

BAYSHORE PHASE II: FROM S. HOWARD AVE. TO S. ROME AVE.  
**SIGNING AND PAVEMENT MARKING PLANS (26)**

PROJECT NO.	SHEET NO.
872900	S-33