

CONTRACT PLANS COMPONENTS

ROADWAY PLANS

CITY OF TAMPA

CONTRACT PLANS

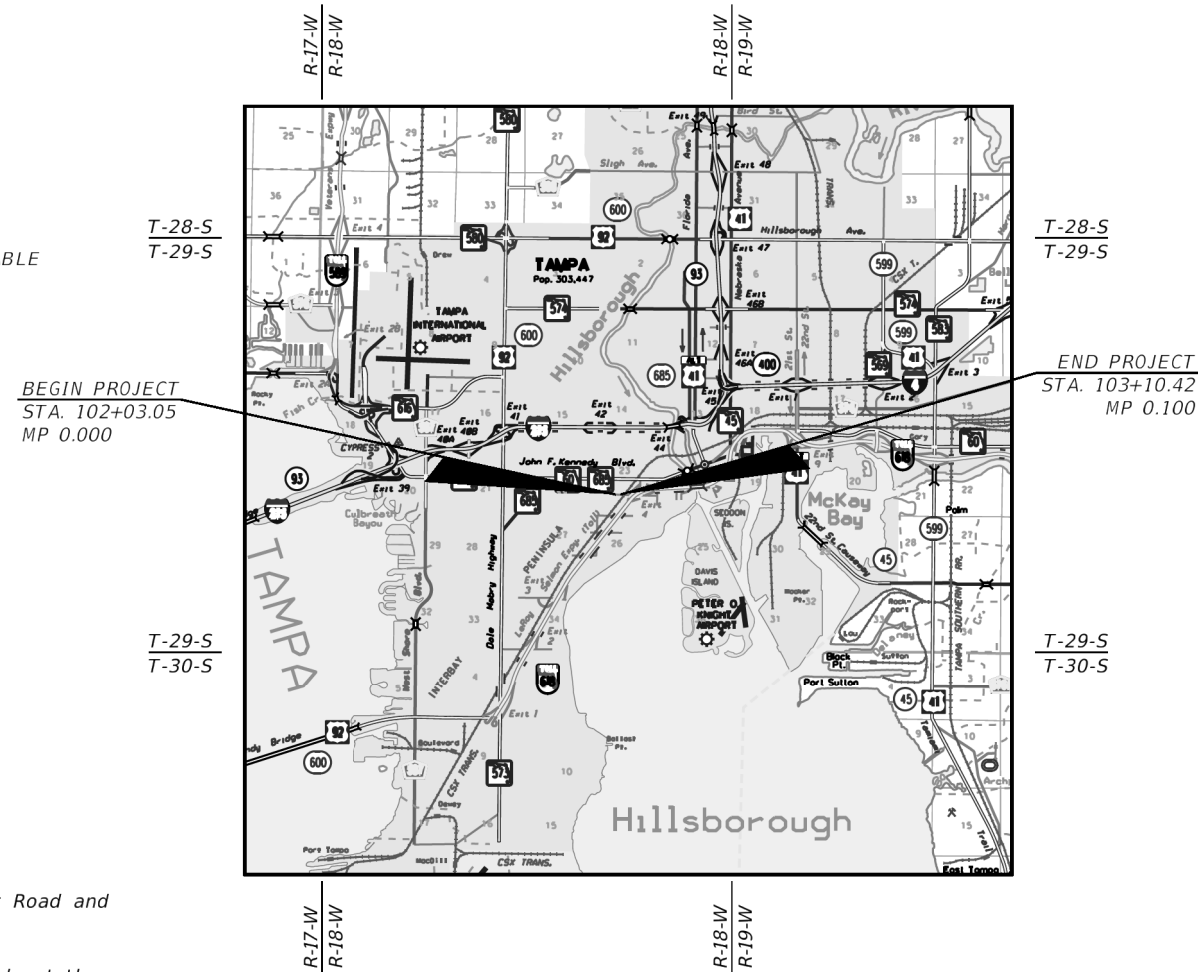
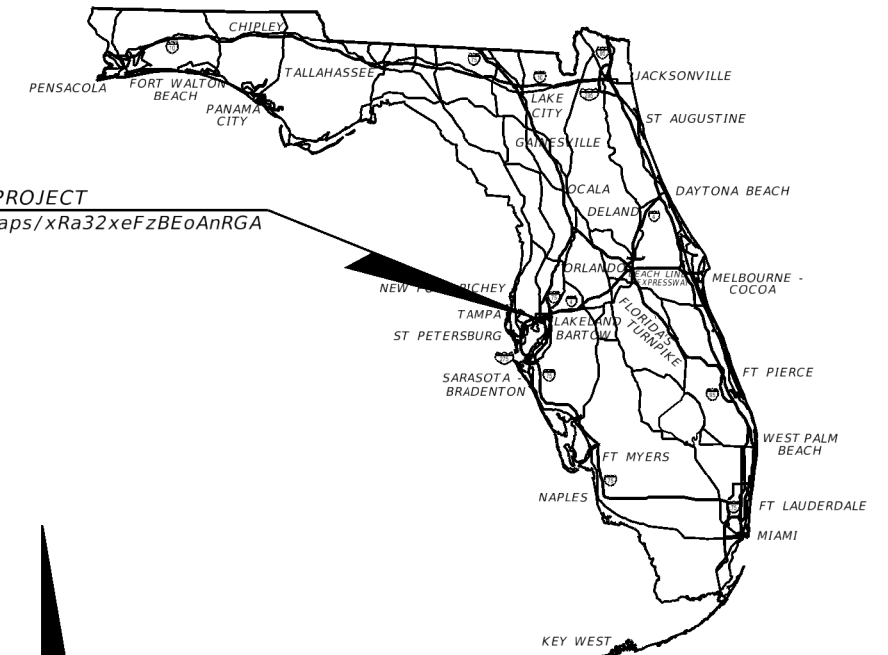
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FINANCIAL PROJECT ID 443711-2-58-01
(FEDERAL FUNDS)
HILLSBOROUGH COUNTY (10190)

W. CLEVELAND STREET AT S. ROME AVENUE

LOCATION OF PROJECT
<https://goo.gl/maps/xRa32xeFzBEoAnRGA>



GOVERNING STANDARD PLANS:

Florida Department of Transportation, FY2022-23 Standard Plans for Road and Bridge Construction and applicable Interim Revisions (IRs).

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

GOVERNING STANDARD SPECIFICATIONS:

Florida Department of Transportation, July 2022 Standard Specifications for Road and Bridge Construction at the following website: <http://www.fdot.gov/programmanagement/Implemented/SpecBooks>

ROADWAY PLANS

ENGINEER OF RECORD:

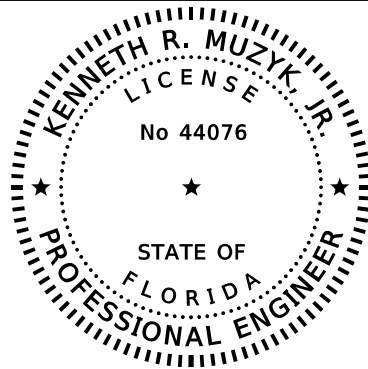
KENNETH R. MUZYK, JR., P.E. NO.: 44076
 FALLER, DAVIS & ASSOCIATES, INC.
 4200 W. CYPRESS ST., SUITE 500
 TAMPA, FLORIDA 33607-4168
 (813) 261-5136
 VENDOR NO. F592594956001

PROJECT MANAGER:

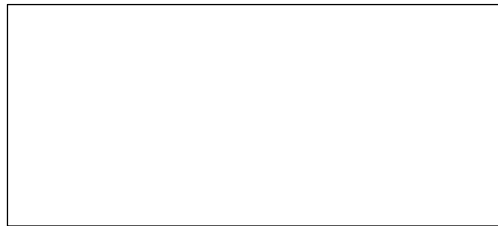
JAE-SANG LEE

CONSTRUCTION CONTRACT NO.	FISCAL YEAR	SHEET NO.
	23	1

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ON THE DATE ADJACENT TO THE SEAL

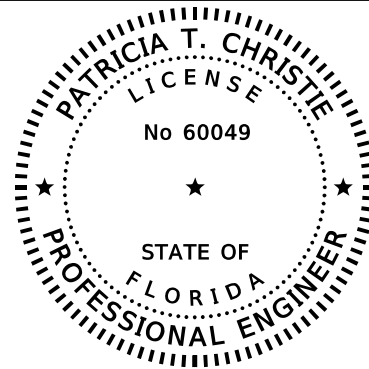
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TAMPA, FLORIDA 33607-4168
KENNETH R. MUZYK, JR., P.E. NO.: 44076

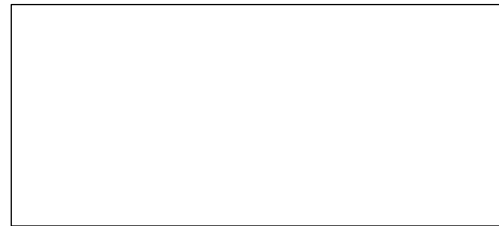
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ROADWAY PLANS

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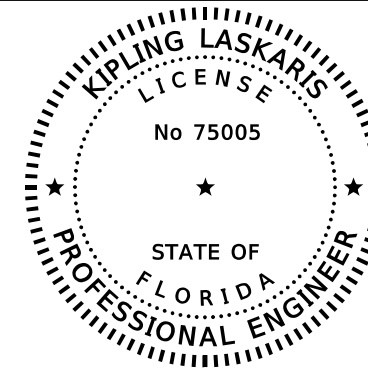
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4200 W. CYPRESS ST., SUITE 500
TAMPA, FLORIDA 33607-4168
PATRICIA T. CHRISTIE, P.E. NO.: 60049

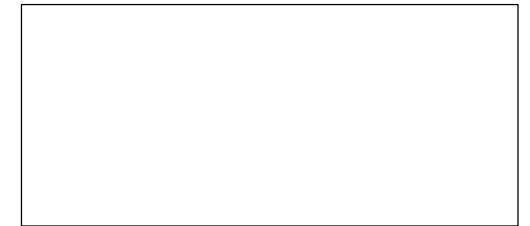
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ROADWAY PLANS

SHEET NO.	SHEET DESCRIPTION
2	SIGNATURE SHEET
17	SIGNING AND MARKING PLAN
18 - 19	SIGNALIZATION PLAN
20	PEDESTRIAN SIGNAL DETAIL
21	STANDARD MAST ARM TABULATION
22	GUIDE SIGN WORK SHEET
25	TABULATION OF QUANTITIES



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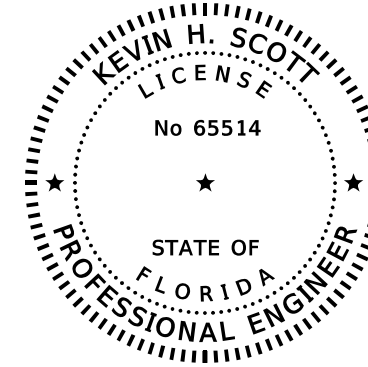
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KISINGER CAMPO & ASSOCIATES CORP.
201 N. FRANKLIN STREET, SUITE 400
TAMPA, FL 33602
KIPLING LASKARIS, P.E. NO.: 75005

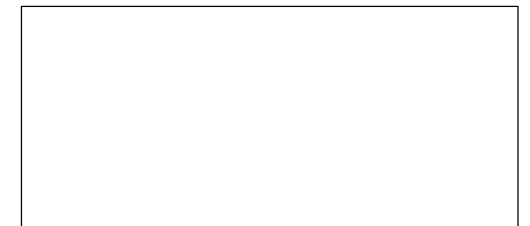
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ROADWAY PLANS

SHEET NO.	SHEET DESCRIPTION
2	SIGNATURE SHEET
23	STANDARD MAST ARM ASSEMBLIES DATA TABLE



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ON THE DATE ADJACENT TO THE SEAL

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TIERRA, INC.
7351 TEMPLE TERRACE HIGHWAY
TAMPA, FL 33637
KEVIN H. SCOTT, P.E. NO.: 65514

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

ROADWAY PLANS

SHEET NO.	SHEET DESCRIPTION
2	SIGNATURE SHEET
24	REPORT OF CORE BORINGS

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

FALLER, DAVIS & ASSOCIATES, INC
4200 W. CYPRESS ST., SUITE 500
TAMPA, FLORIDA 33607-4168
KENNETH R. MUZYK, JR., P.E. NO.: 44076

CITY OF TAMPA		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	HILLSBOROUGH	443711-2-58-01

SIGNATURE SHEET

SHEET NO.
2

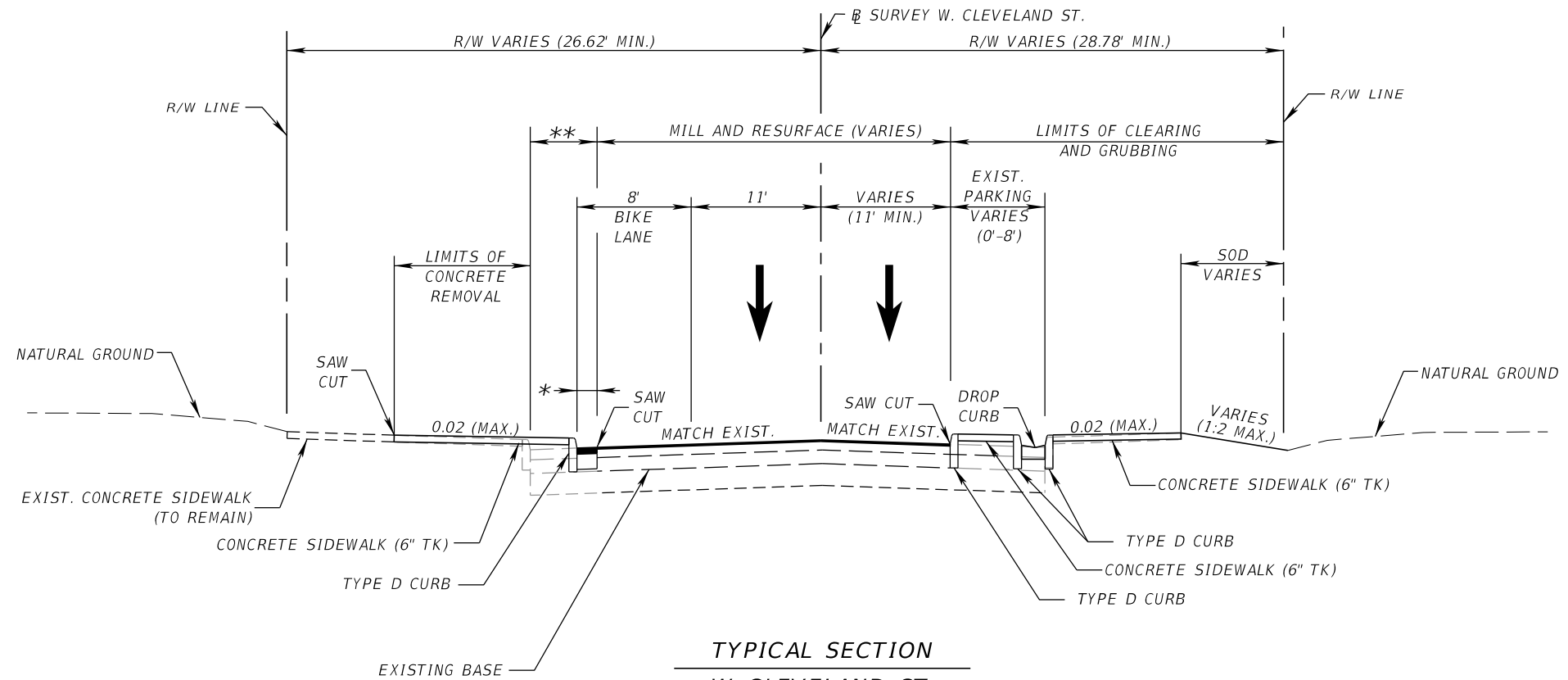
200 ROADWAY ITEMS			
PAY ITEM #	ITEM DESCRIPTION	UNIT	QUANTITY
0101- 1	MOBILIZATION	LS	1
0102- 1	MAINTENANCE OF TRAFFIC	LS	1/110
0102- 14	TRAFFIC CONTROL OFFICER	HR	24
0102- 60	WORK ZONE SIGN	ED	3280
0102- 74- 1	CHANNELIZING DEVICE- TYPES I, II, DI, VP, DRUM, OR LCD	ED	4350
0102- 74- 8	CHANNELIZING DEVICE- PEDESTRIAN LCD (LONGITUDINAL CHANNELIZING DEVICE)	FD	2840
0102- 76	ARROW BOARD / ADVANCE WARNING ARROW PANEL	ED	110
0102- 99	PORTABLE CHANGEABLE MESSAGE SIGN, TEMPORARY	ED	248
0102-115	TYPE III BARRICADE	ED	220
0104- 18-	INLET PROTECTION SYSTEM	EA	2
0108- 1	MONITOR EXISTING STRUCTURES- INSPECTION AND SETTLEMENT MONITORING	LS	1
0110- 1- 1	CLEARING & GRUBBING	LS	1/0.06
0110- 4- 10	REMOVAL OF EXISTING CONCRETE	SY	122
0120- 1	REGULAR EXCAVATION	CY	125.8
0120- 6	EMBANKMENT	CY	49.6
0285-715	OPTIONAL BASE, BASE GROUP 15	SY	50
0327- 70- 6	MILLING EXISTING ASPHALT PAVEMENT, 1 1/2" AVG DEPTH	SY	516
0334- 1- 13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	TN	6.8
0337- 7- 83	ASPHALT CONCRETE FRICTION COURSE,TRAFFIC C, FC-12.5, PG 76-22	TN	46.7
0425- 5	MANHOLE, ADJUST	EA	1
0425- 5- 1	MANHOLE, ADJUST, UTILITIES	EA	1
0520- 2- 4	CONCRETE CURB, TYPE D	LF	635
0522- 2	CONCRETE SIDEWALK AND DRIVEWAYS, 6" THICK	SY	237
0527- 2	DETECTABLE WARNINGS	SF	91
0570- 1- 2	PERFORMANCE TURF, SOD	SY	59
0999- 25	INITIAL CONTINGENCY AMOUNT, DO NOT BID	LS	1

REVISIONS				FALLER, DAVIS & ASSOCIATES, INC 4200 W. CYPRESS ST., SUITE 500 TAMPA, FLORIDA 33607-4168 KENNETH R. MUZYK, JR., P.E. NO.: 44076	CITY OF TAMPA			SUMMARY OF PAY ITEMS (1)	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
						HILLSBOROUGH	443711-2-58-01		3

300 SIGNING AND PAVEMENT MARKING ITEMS			
PAY ITEM #	ITEM DESCRIPTION	UNIT	QUANTITY
700-1-11	SINGLE POST SIGN (F&I) (GROUND MOUNT) (UP TO 12 SF)	AS	2
700-1-12	SINGLE POST SIGN (F&I) (GROUND MOUNT) (12 - 20 SF)	AS	3
700-1-60	SINGLE POST SIGN (REMOVE)	AS	5
700-13-15	RETROREFLECTIVE SIGN STRIP - FURNISH AND INSTALL (5')	EA	2
704-1-1	TUBULAR MARKER, DURABLE, 36" WHITE POST	EA	8
706-1-3	RAISED PAVEMENT MARKER (TYPE B)	EA	34
710-90	PAINTED PAVEMENT MARKINGS - FINAL SURFACE	LS	1
711-11-123	THERMOPLASTIC (STD) (WHITE) (SOLID) (12")	LF	224
711-11-124	THERMOPLASTIC (STD) (WHITE) (SOLID) (18")	LF	45
711-11-125	THERMOPLASTIC (STD) (WHITE) (SOLID) (24")	LF	54
711-11-170	THERMOPLASTIC (STD) (WHITE) (ARROWS)	EA	2
711-11-224	THERMOPLASTIC (STD) (YELLOW) (SOLID) (18")	LF	10
711-14-125	THERMOPLASTIC (PREFORMED) (WHITE) (SOLID) (24" FOR CROSSWALKS)	LF	140
711-14-160	THERMOPLASTIC (PREFORMED) (WHITE) (MSG) (BIKE SYMBOL)	EA	1
711-14-170	THERMOPLASTIC (PREFORMED) (WHITE) (ARROWS) (BIKE ARROW)	EA	1
711-16-101	THERMOPLASTIC (STD-OTHER SURFACES) (WHITE) (SOLID) (6")	GM	0.060
711-16-201	THERMOPLASTIC (STD-OTHER SURFACES) (YELLOW) (SOLID) (6")	GM	0.082
711-17-1	THERMOPLASTIC (REMOVE EXISTING THERMOPLASTIC PAVEMENT MARKINGS - SURFACE TO REMAIN)	SF	18

500 SIGNALIZATION ITEMS			
PAY ITEM #	ITEM DESCRIPTION	UNIT	QUANTITY
630-2-11	CONDUIT (F&I) (OPEN TRENCH)	LF	275
630-2-12	CONDUIT (F&I) (DIRECTIONAL BORE)	LF	185
632-7-1	SIGNAL CABLE (NEW OR RECONSTRUCTED INTERSECTION) (F&I)	PI	1
633-3-15	FIBER OPTIC CONNECTION HARDWARE (F&I) (PRETERMINATED PATCH PANEL)	EA	1
635-2-11	PULL AND SPLICE BOX (F&I)	EA	13
639-1-122	ELECTRICAL POWER SERVICE (F&I) (UNDERGROUND, METER PURCHASED BY CONTRACTOR)	AS	1
639-2-1	ELECTRICAL SERVICE WIRE (F&I)	LF	105
639-3-11	ELECTRICAL SERVICE DISCONNECT (F&I) (POLE MOUNT)	EA	1
641-2-12	PRESTRESSED CONCRETE POLE (F&I) (TYPE P-II SERVICE POLE)	EA	2
646-1-11	ALUMINUM SIGNALS POLE (F&I) (PEDESTAL)	EA	8
649-21-4	STEEL MAST ARM ASSEMBLY (F&I) (DOUBLE ARM) (40'-30')	EA	1
649-21-6	STEEL MAST ARM ASSEMBLY (F&I) (SINGLE ARM) (50')	EA	1
650-1-14	TRAFFIC SIGNAL (F&I ALUMINUM) (3-SECTION, 1 WAY)	AS	8
653-1-11	PEDESTRIAN SIGNAL (F&I) (LED COUNTDOWN) (1 WAY)	AS	8
660-4-11	VEHICLE DETECTION SYSTEM - VIDEO (F&I) (CABINET EQUIPMENT)	EA	1
660-4-12	VEHICLE DETECTION SYSTEM - VIDEO (F&I) (ABOVE GROUND EQUIPMENT)	EA	1
665-1-12	PEDESTRIAN DETECTOR (F&I) (ACCESSIBLE)	EA	8
670-5-110	TRAFFIC CONTROLLER ASSEMBLY (F&I) (NEMA)	AS	1
684-1-1	MANAGED FIELD ETHERNET SWITCH (F&I)	EA	1
685-1-13	UNINTERRUPTIBLE POWER SUPPLY (F&I) (LINE INTERACTIVE WITH CABINET)	EA	1
700-3-201	SIGN PANEL (F&I) (OVERHEAD MOUNT) (UP TO 12 SF)	EA	2
700-5-22	INTERNALLY ILLUMINATED SIGN (F&I) (12 - 18 SF)	EA	3
715-5-32	LUMINAIRE & BRACKET ARM (GALV STEEL) (F&I) (NEW ARM ON NEW POLE)	EA	1

REVISIONS				FALLER, DAVIS & ASSOCIATES, INC 4200 W. CYPRESS ST., SUITE 500 TAMPA, FLORIDA 33607-4168 KENNETH R. MUZYK, JR., P.E. NO.: 44076	CITY OF TAMPA			SUMMARY OF PAY ITEMS (2)	SHEET NO. 4
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					HILLSBOROUGH	443711-2-58-01			



**TYPICAL SECTION
W CLEVELAND ST.
NTS
STA. 102+03.05 TO STA. 103+10.42**

* RECONSTRUCTION: SEE ROADWAY PLAN FOR GRADING
** LIMITS OF CLEARING AND GRUBBING

RECONSTRUCTION

OPTIONAL BASE GROUP 15 (TYPE B-12.5 ONLY) WITH
TYPE SP STRUCTURAL COURSE (TRAFFIC C) (2 1/2")
FRICTION COURSE FC-12.5 (TRAFFIC C) (PG 76-22) (1 1/2")

EXISTING TRAVEL LANES

MILL EXISTING ASPHALT PAVEMENT (1 1/2" DEPTH)
FRICTION COURSE FC-12.5 (TRAFFIC C) (PG 76-22) (1 1/2")

NOTES:

1. ACTUAL WIDTH OF BASE WIDENING MAY VARY DUE TO ACTUAL EXISTING PAVEMENT WIDTH. A UNIFORM WIDTH BASE WIDENING STRIP MAY BE CONSTRUCTED AT NO ADDITIONAL

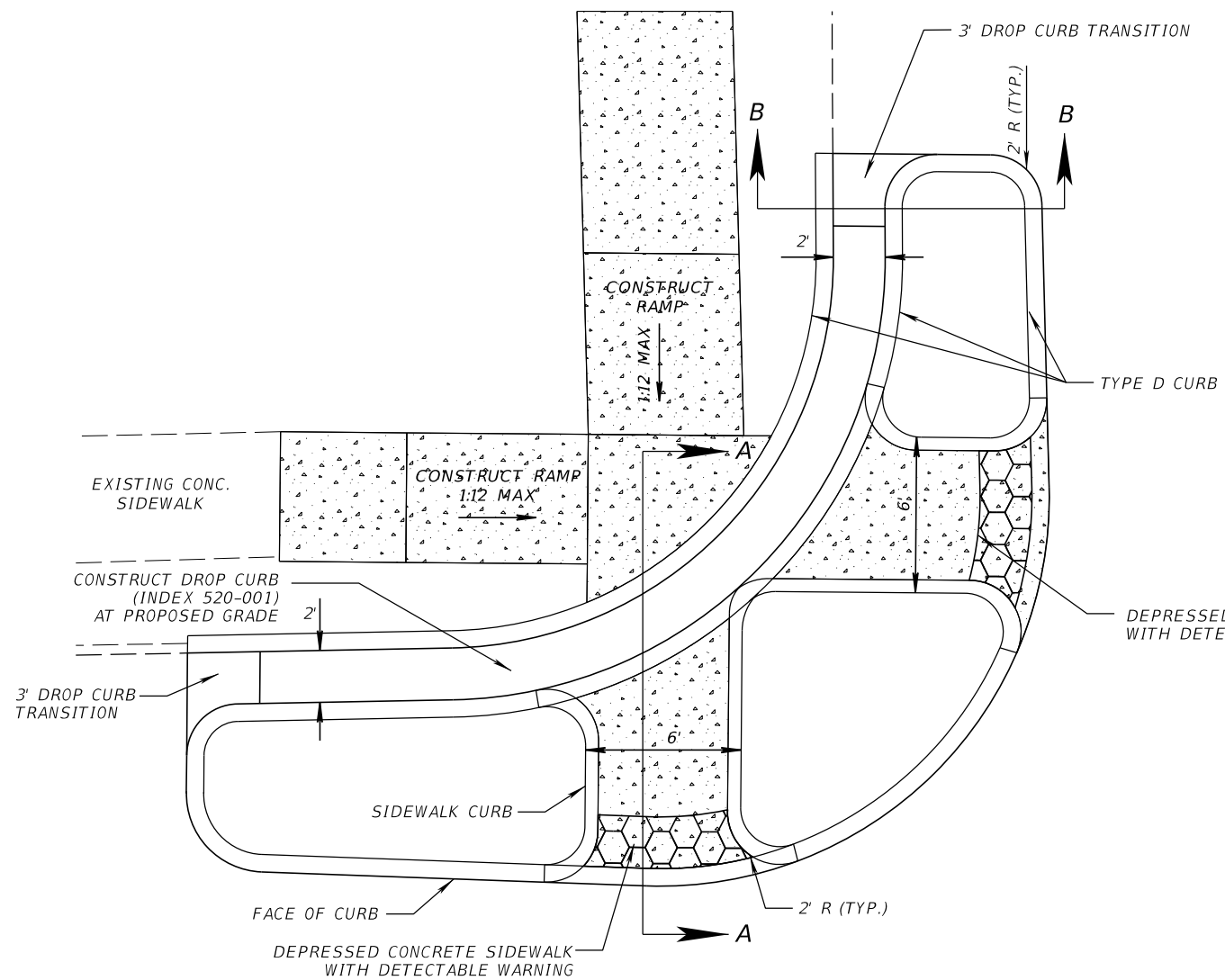
TRAFFIC DATA

CURRENT YEAR = 2022 AADT = 6100
ESTIMATED OPENING YEAR = 2023 AADT = N/A
ESTIMATED DESIGN YEAR = 2043 AADT = N/A
K = 9.0% D = 99.9% T = 8.3% (24 HOUR)
DESIGN HOUR T = N/A
DESIGN SPEED = 35 MPH
POSTED SPEED = 35 MPH

REVISIONS				FALLER, DAVIS & ASSOCIATES, INC 4200 W. CYPRESS ST., SUITE 500 TAMPA, FLORIDA 33607-4168 KENNETH R. MUZYK, JR., P.E. NO.: 44076	CITY OF TAMPA			SHEET NO. 5
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
						HILLSBOROUGH	443711-2-58-01	

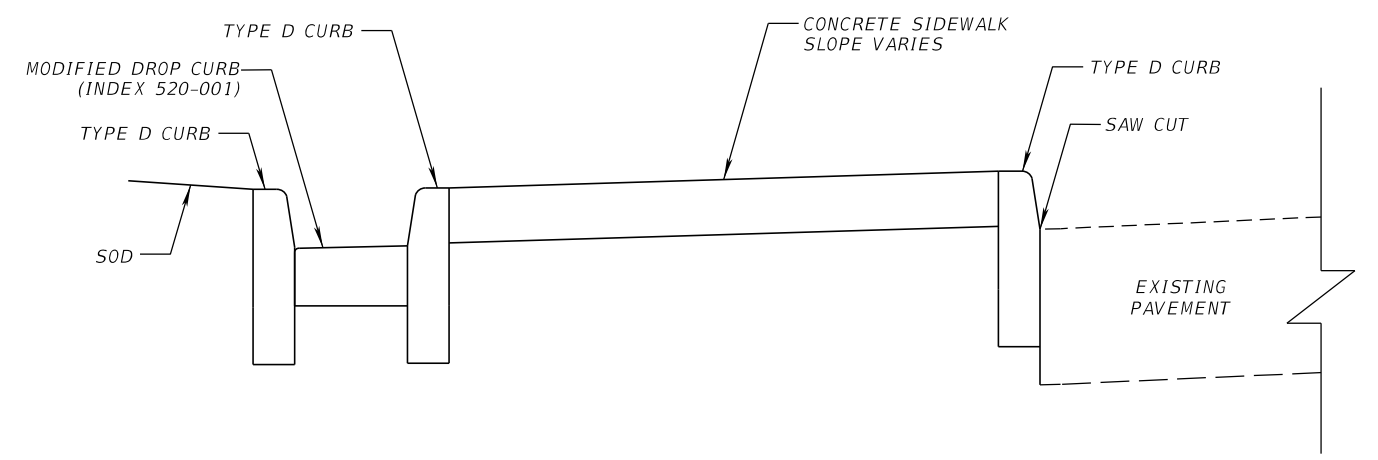
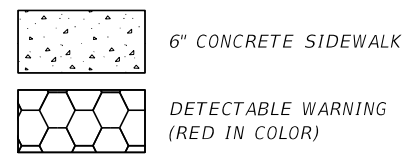
TYPICAL SECTION

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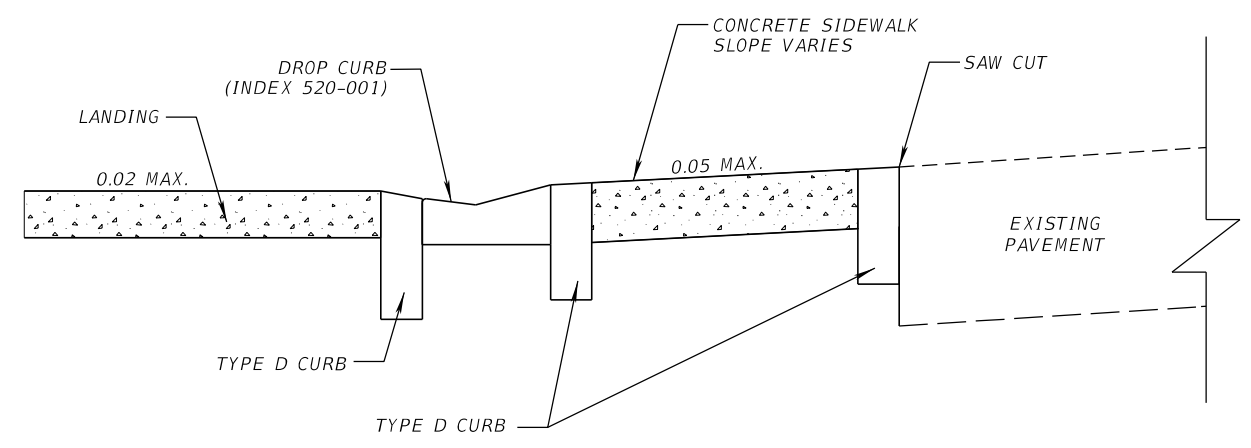


**OPEN GUTTER BULB-OUT
(NW, SW, AND SE CORNERS)**

NTS



**SECTION B-B
NTS**



**SECTION A-A
NTS**

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

FALLER, DAVIS & ASSOCIATES, INC
4200 W. CYPRESS ST., SUITE 500
TAMPA, FLORIDA 33607-4168
KENNETH R. MUZYK, JR., P.E. NO.: 44076

CITY OF TAMPA		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	HILLSBOROUGH	443711-2-58-01

TYPICAL SECTION DETAILS	SHEET NO. 6
------------------------------------	-----------------------

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BENCHMARKS
(NOT TO SCALE)

Survey Control Sheet
City of Tampa- Transportation & Stormwater Services

Project Name: Cleveland - Rome
Name: 34
Stamping: City of Tampa Trans Div Survey Control
Located: SE 1/4, S 23, T 29 S, R 18 E
Horizontal Datum: [] NAD 27 [X] NAD 83/90
Vertical Datum: [] NGVD [X] NAVD [] Other
Date Set: 03 / 21 / 2014
By: R. Morgan
Field Book: 2014 - 1
Pages: 42 - 54
Description: Set Mag Nail and Disk

Processed By: C. Wade
Date: 03 / 25 / 2014
Control Type: [X] Horizontal [X] Vertical

Location Sketch By: K. Jerominek **Atlas Sheet No.:** 1 - 11 **Bench Run Name:** CLEV

Elevation: 18.93 NAVD [X] Feet [] Meters **Order:** 3rd
Coordinates: North (Y): 1312395.905 East (X): 502267.812
Datum: [] Assumed [X] SPCS **Zone:** 0902 Florida Transverse Mercator West Zone
Latitude: **Longitude:** **Ellipsoid Ht:**
Geoid Ht: **Scale Factor:** **Convergence:**
Established by: [X] Level Run/Loop; [X] Traverse Network; [] DGPS; [X] RTK; [] Static GPS
Recovered By: **Date:** **Condition:**

Survey Control Sheet
City of Tampa- Transportation & Stormwater Services

Project Name: Cleveland - Rome
Name: 1288
Stamping: City of Tampa T. & S.S. Survey Control
Located: SW 1/4, S 23, T 29 S, R 18 E
Horizontal Datum: [] NAD 27 [X] NAD 83/90
Vertical Datum: [] NGVD [X] NAVD [] Other
Date Set: 02 / 20 / 2020
By: B. Achtzener
Field Book: 2020 - 2
Pages: 39 - 54
Description: Set Mag Nail and Disk

Processed By: C. Wade
Date: 04 / 23 / 2020
Control Type: [X] Horizontal [X] Vertical

Location Sketch By: K. Jerominek **Atlas Sheet No.:** 1 - 11 **Bench Run Name:** CLEV_RW

Elevation: 17.29 NAVD [X] Feet [] Meters **Order:** 3rd
Coordinates: North (Y): 1312419.460 East (X): 501876.466
Datum: [] Assumed [X] SPCS **Zone:** 0902 Florida Transverse Mercator West Zone
Latitude: **Longitude:** **Ellipsoid Ht:**
Geoid Ht: **Scale Factor:** **Convergence:**
Established by: [X] Level Run/Loop; [X] Traverse Network; [] DGPS; [X] RTK; [] Static GPS
Recovered By: **Date:** **Condition:**

Survey Control Sheet
City of Tampa- Transportation & Stormwater Services

Project Name: Cleveland - Rome
Name: 3311
Stamping: City of Tampa T. & S.S. Survey Control
Located: SE 1/4, S 23, T 29 S, R 18 E
Horizontal Datum: [] NAD 27 [X] NAD 83/90
Vertical Datum: [] NGVD [X] NAVD [] Other
Date Set: 02 / 20 / 2020
By: B. Achtzener
Field Book: 2020 - 2
Pages: 39 - 54
Description: Set Mag Nail and Disk

Processed By: C. Wade
Date: 04 / 23 / 2020
Control Type: [X] Horizontal [X] Vertical

Location Sketch By: K. Jerominek **Atlas Sheet No.:** 1 - 11 **Bench Run Name:** CLEV_RW

Elevation: 17.97 NAVD [X] Feet [] Meters **Order:** 3rd
Coordinates: North (Y): 1312337.201 East (X): 502586.255
Datum: [] Assumed [X] SPCS **Zone:** 0902 Florida Transverse Mercator West Zone
Latitude: **Longitude:** **Ellipsoid Ht:**
Geoid Ht: **Scale Factor:** **Convergence:**
Established by: [X] Level Run/Loop; [X] Traverse Network; [] DGPS; [X] RTK; [] Static GPS
Recovered By: **Date:** **Condition:**

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

FALLER, DAVIS & ASSOCIATES, INC
 4200 W. CYPRESS ST., SUITE 500
 TAMPA, FLORIDA 33607-4168
 KENNETH R. MUZYK, JR., P.E. NO.: 44076

CITY OF TAMPA		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	HILLSBOROUGH	443711-2-58-01

PROJECT CONTROL

SHEET NO.
7

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ROADWAY GENERAL NOTES
=====

- BENCHMARK ELEVATIONS SHOWN ON THE PLANS ARE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).
- ALL SURVEY INFORMATION WAS OBTAINED FROM A LICENSED FLORIDA PROFESSIONAL SURVEYOR AND MAPPER AND UTILIZED AS SUPPORTING DATA IN THE PRODUCTION OF DESIGN PLANS AND FOR CONSTRUCTION ON SUBJECT PROJECT. THE PROFESSIONAL SURVEYOR AND MAPPER OF RECORD IS:
WAYNE CARTER, P.S.M.
P.S.M. NO.: 5893
AIM ENGINEERING & SURVEYING, INC.
2161 FOWLER STREET, SUITE 100
FORT MYERS, FL 33901
CERTIFICATE OF AUTHORIZATION NO.: LB 3114
- SPECIAL EVENTS FOR THIS PROJECT INCLUDE:

GASPARILLA PARADE
- PERFORM COMPACTION IN STATIC MODE.

SIGNING AND PAVEMENT MARKING GENERAL NOTES
=====

- THE SIGN LOCATIONS SHOWN ARE APPROXIMATE AND MAY REQUIRE FIELD ADJUSTMENT AS DIRECTED BY THE ENGINEER.
- AT LOCATIONS WHERE UNDERGROUND UTILITIES ARE IN CLOSE PROXIMITY TO SIGN FOUNDATIONS AS DETERMINED BY THE CONTRACTOR, HAND DIG THE FIRST FOUR FEET (4') OF THE HOLE FOR THE SIGN POST FOUNDATION.
- ENSURE THAT ALL SIGNS MOUNTED OVER SIDEWALKS HAVE A VERTICAL CLEARANCE OF EIGHT FEET (8') STANDARD.
- ENSURE THAT ALL CROSSWALKS ARE TEN FEET (10') IN WIDTH. MEASURE FROM INSIDE TO INSIDE OF 12" STRIPES.

SIGNALIZATION GENERAL NOTES:
=====

- 10 DAYS IN ADVANCE, SCHEDULE AN INSPECTION THROUGH THE SIGNAL SHOP SUPERVISOR, DAVID WORLEY:

DAVID WORLEY, SIGNAL SHOP SUPERVISOR
CITY OF TAMPA
3802 E. 26TH AVENUE
TAMPA, FLORIDA 33605
PHONE: (813) 393-8425
EMAIL: DAVID.WORLEY@TAMPAGOV.NET
- CONTACT THE CITY OF TAMPA SIGNAL SHOP SUPERVISOR FOR A COPY OF THE GENERAL CONTRACTORS PACKAGE FOR REFERENCE TO ALL SIGNAL EQUIPMENT.
- TAMPA ELECTRIC COMPANY (TECO) REQUIRES A TWO WEEK MINIMUM NOTICE FOR ANY OUTAGE TO BE SCHEDULED, CONTACT:

FRANK W. DOHERTY
TAMPA ELECTRIC COMPANY
SENIOR DISTRIBUTION DESIGN TECHNICIAN
5402 W. SLIGH AVENUE
TAMPA, FLORIDA 33634
PHONE: (813) 228-1111, EXT. 37018
- PRIOR TO ALL TRAFFIC SIGNAL CHANGES (I.E., MAINTENANCE OF TRAFFIC CHANGES, NEW SIGNAL INSTALLATIONS, DIFFERENT PAVEMENT CONFIGURATIONS, ETC.) CONTACT THE TMC (813) 274-7358 AT LEAST 48 HOURS IN ADVANCE FOR ANY SIGNAL CHANGES WHETHER MOT RELATED OR NEW INSTALLATIONS.
- CONTACT ROSS SAMONS WITH DEVELOPMENT AND GROWTH MANAGEMENT TO VERIFY ADDRESS FOR ILLUMINATED STREET NAME SIGNS AT:

ROSS SAMONS
DEVELOPMENT AND GROWTH MANAGEMENT
PHONE: (813) 274-7707
ROSS.SAMONS@TAMPAGOV.NET
- ALL PED POLE AND MAST POLE FOUNDATIONS TO BE FLUSH WITH THE SIDEWALK.

REVISIONS				FALLER, DAVIS & ASSOCIATES, INC 4200 W. CYPRESS ST., SUITE 500 TAMPA, FLORIDA 33607-4168 KENNETH R. MUZYK, JR., P.E. NO.: 44076	CITY OF TAMPA			GENERAL NOTES (1)	SHEET NO. 8
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					HILLSBOROUGH	443711-2-58-01			

ROADWAY PAY ITEM NOTES:
=====

- 527- 2:
DETECTABLE WARNINGS SHALL BE RED IN COLOR.

SIGNALIZATION PAY ITEM NOTES:
=====

- 630-2-11 AND 630-2-12:
THE CONDUIT RUNS SHOWN ON THE PLANS ARE SCHEMATIC AND FIELD ADJUSTMENTS MAY BE NECESSARY. DETERMINE THE EXACT LOCATIONS OF ALL UTILITIES PRIOR TO DIGGING. ALL CONDUITS TO BE TERMINATED WITH A BELL END. SPARES ARE TO BE CAPPED AND HAVE TRACK WIRE OR MULE TAPE. USE HDPE FOR DIRECTIONAL BORINGS.

- 632-7-1:
WIRE EACH PHASE/MOVEMENT FROM THE SIGNAL DISPLAY TO THE CONTROLLER AS A SEPARATE PHASE/MOVEMENT. VERIFY COLOR CODES FOR SIGNAL CABLE AND INTERCONNECT CABLE WITH THE CITY OF TAMPA TRAFFIC SIGNAL SUPERVISOR BEFORE ORDERING, AND WIRE THE SIGNAL IN ACCORDANCE WITH THAT COLOR CODE AND F.D.O.T. SPECIFICATIONS. USE ONE NEUTRAL PER APPROACH. DO NOT DAISY CHAIN SIGNAL CABLE IN ANY POLE OR SIGNAL.

ALL FIELD WIRING MUST BE NEATLY BUNDLED AND CLEARLY IDENTIFIED WITH PERMANENT, LEGIBLE, WEATHER-PROOF TAGS THAT ARE SECURELY ATTACHED TO EACH CABLE. THE TAGGING SYSTEM PROPOSED SHALL BE SUBMITTED FOR APPROVAL WITH THE OTHER EQUIPMENT SUBMITTALS REQUIRED FOR THIS PROJECT.

USE (3) #6 AWG STRANDED RUNS (WHITE-BLACK-GREEN), TO SUPPLY POWER FROM THE CABINET TO FUTURE TAMPA POLICE DEPARTMENT'S (TPD) CCTV, (TO BE INSTALLED BY OTHERS). COIL 3 FEET AND SECURE ON FLOOR OF CABINET AND COIL 15 FEET AND HANG ON RELIEF HOOK WITHIN THE MAST POLE UPRIGHT WITH OTHER SIGNAL CABLES.

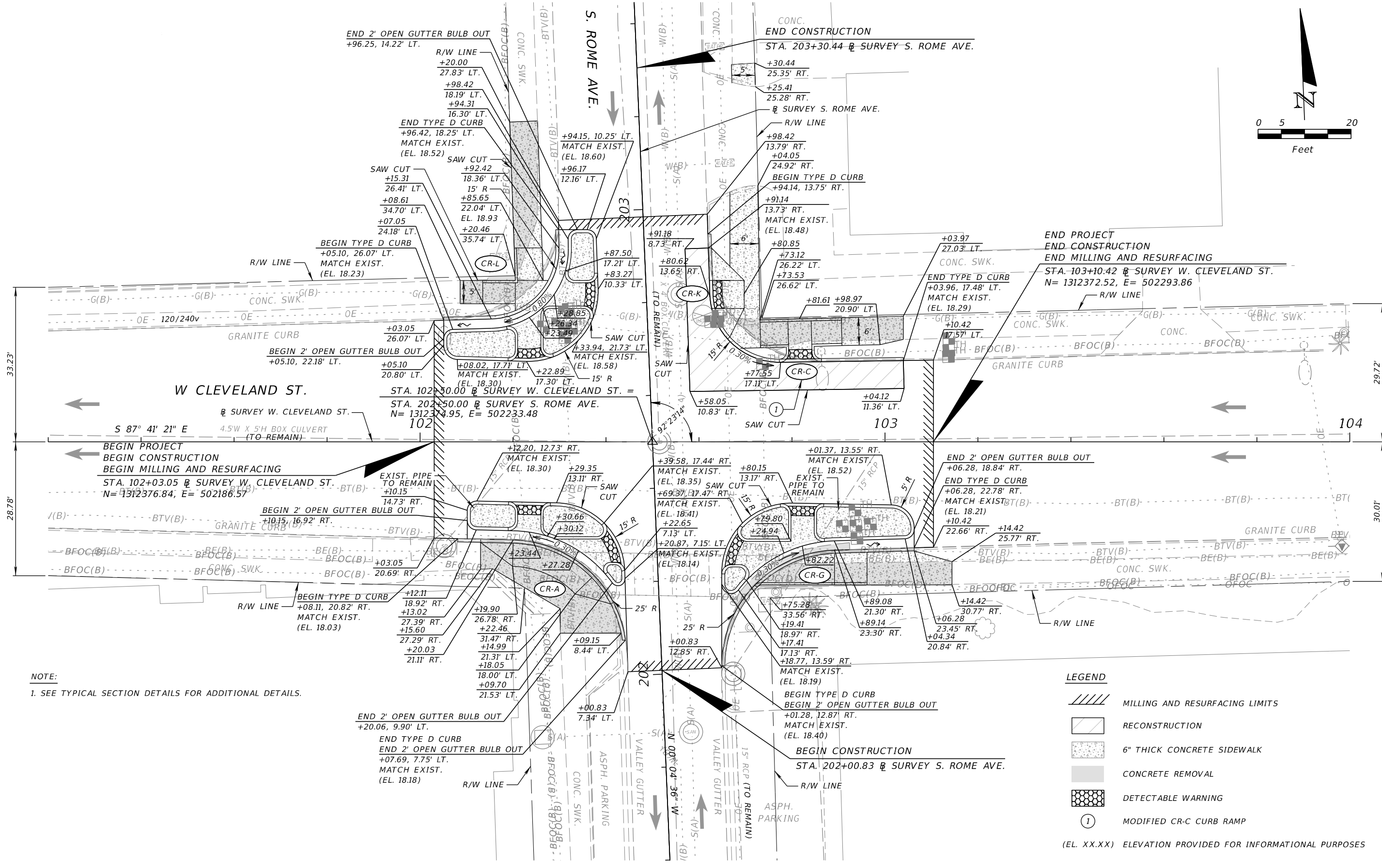
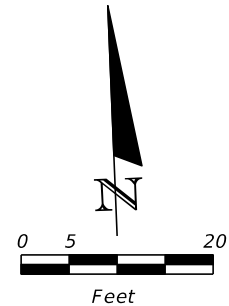
- 633-3-15:
USE WALL-MOUNT PATCH PANEL (12X SINGLE MODE WITH SC CONNECTORS).
- 635-2-11:
FOR PULL BOXES ADJACENT TO THE CONTROLLER CABINET, USE 17" X 30" SIZE. ON PULL BOX LIDS FOR PULL BOXES USED FOR SIGNALIZATION, DISPLAY THE TEXT "TRAFFIC SIGNAL" IN EMBOSSED LETTERS. USE PULL BOXES THAT ARE LOAD RATED AT 20,000 LBS. CERTIFIED NON-CONDUCTIVE. PULL BOXES INSTALLED IN THE SIDEWALK, INCLUDE ALL ADDITIONAL CONCRETE REQUIRED TO MAINTAIN SIDEWALK CONNECTIVITY AND MEET ALL ADA REQUIREMENTS. ANY PULL BOX NOT WITHIN THE SIDEWALK MUST HAVE A MOW PAD.
- 639-1-122:
CONTACT THE POWER COMPANY PROVIDING THE ELECTRICAL POWER TO DETERMINE IF A SERVICE PROCESSING OR CONNECTION FEE IS REQUIRED. THE COST OF ANY SUCH FEE WILL BE INCLUDED AS PART OF PAYMENT FOR ELECTRICAL POWER SERVICE ASSEMBLY. THE COST OF THIS ITEM WILL INCLUDE THE COST FOR THE APPROPRIATE METER CAN CONTAINING AN INTERNAL BYPASS SHUNT SWITCH AS REQUIRED BY THE LOCAL POWER COMPANY. METER AND ADDITIONAL DISCONNECT TO BE INSTALLED ON THE SERVICE POLE ADJACENT TO THE SIGNAL CONTROLLER CABINET.
- 646-1-11:
ALUMINUM SIGNAL AND PED STATION PEDESTALS TO BE MOUNTED ON TRANSFORMER BASE AND HAVE AN ALUMINUM DOOR, NOT PLASTIC.
- 649-21-4 AND 649-21-6:
AT LOCATIONS WHERE UNDERGROUND UTILITIES ARE IN CLOSE PROXIMITY TO THE MAST ARM POLE FOUNDATION, TAKE NECESSARY PRECAUTIONS TO AVOID DAMAGING NEARBY UTILITIES WHEN INSTALLING THE POLE FOUNDATION. IN THE MAST ARM POLE FOUNDATION, INSTALL CONDUITS SO THAT THE TOPS OF THE CONDUITS ARE ABOVE THE POLE BASE PLATE. ENSURE THAT GROUT DOES NOT ENTER THE CONDUITS OR CONTACT THE CABLES. REQUEST AND OBTAIN APPROVAL FROM THE ENGINEER FOR AVIAN ABATEMENT TO PREVENT NESTING IN THE MAST ARM ASSEMBLY, INCLUDING THE ARM CONNECTION AREA.

INCLUDE SEPARATE 2" SCHEDULE 40 PVC CONDUIT WITH MULE TAPE IN SIGNAL POLE 1-1 FOR TECO LIGHTING USE.

SIGNALIZATION PAY ITEM NOTES CONTINUED:
=====

- 650-1-14:
USE LOUVERED ALUMINUM SIGNAL HEAD BACK PLATES WITH YELLOW RETRO-REFLECTIVE BORDER.
- 653-1-11:
FOR PEDESTRIAN SIGNALS, USE COUNTDOWN WITH OVERLAY/FILLED/FILLED HAND AND PEDESTRIAN SYMBOLS. DO NOT "DAISY CHAIN" THE PED SIGNALS. PROVIDE 10' OF GROUND ROD WITHIN 10' OF EACH PED POLE WITHIN A PULL BOX, PREFERABLY WITHIN THE FOUNDATION OF THE POLE. GROUND RODS TO BE ACCESSIBLE BEFORE AND AFTER FINAL INSPECTION. INSTALL MORE GROUND RODS IF THE GROUNDING DOES NOT MEET 25 OHM OR LESS, AFTER THE REQUIRED GROUNDING TEST.
- 660-4-11 AND 660-4-12:
PROVIDE FISHEYE VIDEO DETECTION SYSTEM.
- 665-1-12:
INCLUDE ADDITIONAL COST OF LABOR AND MATERIALS REQUIRED FOR INSTALLATION OF PEDESTRIAN SIGNAL SIGN FTP-68B-06. LATCHING PUSH BUTTON INCIDENTAL EQUIPMENT FOR THIS UNIT AND COST WILL BE INCLUDED UNDER THIS PAY ITEM NUMBER. TO INCLUDE VISUAL INDICATION OF ACTUATION AND REMAIN ILLUMINATED UNTIL THE PEDESTRIAN WALK INDICATION IS DISPLAYED. THIS TYPE OF BUTTON HAS AN AUDIBLE CHIRP. BUTTON TO BE MOUNTED SO SPEAKER IS FACING DOWN (NO ALTERATIONS TO BUTTONS IS ACCEPTABLE). THE CONTROL FACE OF THE PUSH BUTTON OR THE PUSH BUTTON HOUSING WILL INCLUDE A TACTILE ARROW TO GUIDE THE VISUALLY IMPAIRED PEDESTRIAN TO THE DIRECTION OF THE CROSSWALK. THE LOCATION AND DIRECTION OF THE CONTROL TO BE ALIGNED WITH THE CROSSWALK.
- 670-5-110:
INCLUDES ALL COSTS ASSOCIATED WITH FURNISHING AND INSTALLING A FULLY LOADED TS2 TYPE-1, SIZE P-44 CONTROLLER CABINET ASSEMBLY WITH AN EIGHT PHASE BACKPLANE, A MINIMUM OF SIXTEEN LOAD BAY POSITIONS, NO PAINT OUTSIDE, WHITE PAINT INSIDE, GPS CLOCK SYNC, TWO QUAD OUTLETS, ONE DUPLEX GFI, CONTROLLER WITH CENTRAL SOFTWARE LICENSE COMPATIBLE WITH THE CITY'S CENTRACS TRAFFIC CONTROL SYSTEM AND MALFUNCTION MANAGEMENT UNIT (MMU). NOTIFY THE CITY OF TAMPA SIGNAL SHOP AT LEAST 48 HOURS IN ADVANCE OF TURNING ON A NEW OR MODIFIED CONTROLLER CABINET ASSEMBLY. PLACE THE CABINET SO THE CABINET DOOR OPENS AWAY FROM TRAFFIC. CONSTRUCT THE TECHNICIAN SLAB A MAXIMUM OF 4" BELOW THE TOP OF THE CONCRETE PAD. INCLUDES THE COST OF LABOR, CONCRETE AND OTHER MATERIALS FOR CONTROLLER BASE, PAD AND STEPS AS ONE UNIT.
- 684-1-1:
USE AN ETHERNET EDGE SWITCH THAT IS COMPATIBLE WITH THE CITY OF TAMPA'S TRAFFIC SIGNAL SYSTEM.
- 685-1-13:
THE UNINTERRUPTIBLE POWER SUPPLY (UPS) UNIT TO BE HOUSED IN A SEPARATE ENCLOSED CABINET MOUNTED ON A SEPARATE CONCRETE PAD. INSTALL ONE TWO-INCH CONDUIT AND ONE ONE-INCH CONDUIT CONNECTING THE UPS CABINET AND THE TRAFFIC SIGNAL CABINET. INSTALL A NETWORK CABLE THROUGH THE ONE-INCH CONDUIT AND CONNECT FOR REMOTE ACCESS TO THE UPS UNIT. THIS PAY ITEM INCLUDES THE COST TO FURNISH AND INSTALL THE CABINET TO HOUSE THE UPS ASSEMBLY, THE ADDITIONAL CONCRETE BASE, GROUNDING AND CABLING. COORDINATE WITH THE CITY OF TAMPA FOR SPECIFICATIONS PRIOR TO ORDERING. THE UPS UNIT SHALL BE OF THE SAME MAKE AND MODEL AS IS CURRENTLY BEING USED BY THE MAINTAINING AGENCY. BATTERIES TO BE HOUSED WITH THE UPS CABINET.
- 715-5-32:
ONLY FURNISH AND INSTALL BRACKET ARM ON SIGNAL POLE 1-1. TECO TO FURNISH AND INSTALL LUMINAIRE. BRACKET ARM TO BE FOUR FEET.

REVISIONS				FALLER, DAVIS & ASSOCIATES, INC 4200 W. CYPRESS ST., SUITE 500 TAMPA, FLORIDA 33607-4168 KENNETH R. MUZYK, JR., P.E. NO.: 44076	CITY OF TAMPA			SHEET NO. 9
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					HILLSBOROUGH	443711-2-58-01	GENERAL NOTES (2)	



NOTE:
1. SEE TYPICAL SECTION DETAILS FOR ADDITIONAL DETAILS.

LEGEND

- MILLING AND RESURFACING LIMITS
- RECONSTRUCTION
- 6" THICK CONCRETE SIDEWALK
- CONCRETE REMOVAL
- DETECTABLE WARNING
- MODIFIED CR-C CURB RAMP
(EL. XX.XX) ELEVATION PROVIDED FOR INFORMATIONAL PURPOSES

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

FALLER, DAVIS & ASSOCIATES, INC
4200 W. CYPRESS ST., SUITE 500
TAMPA, FLORIDA 33607-4168
KENNETH R. MUZYK, JR., P.E. NO.: 44076

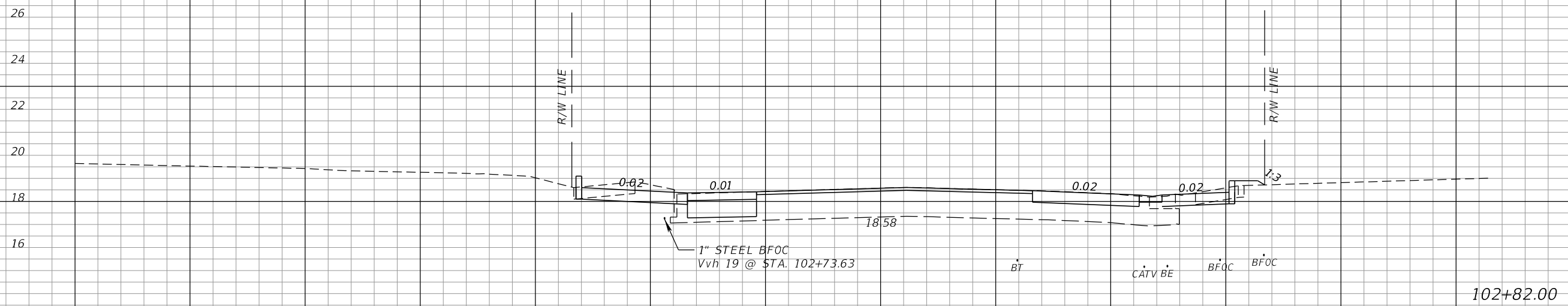
CITY OF TAMPA		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	HILLSBOROUGH	443711-2-58-01

ROADWAY PLAN

SHEET NO.
10

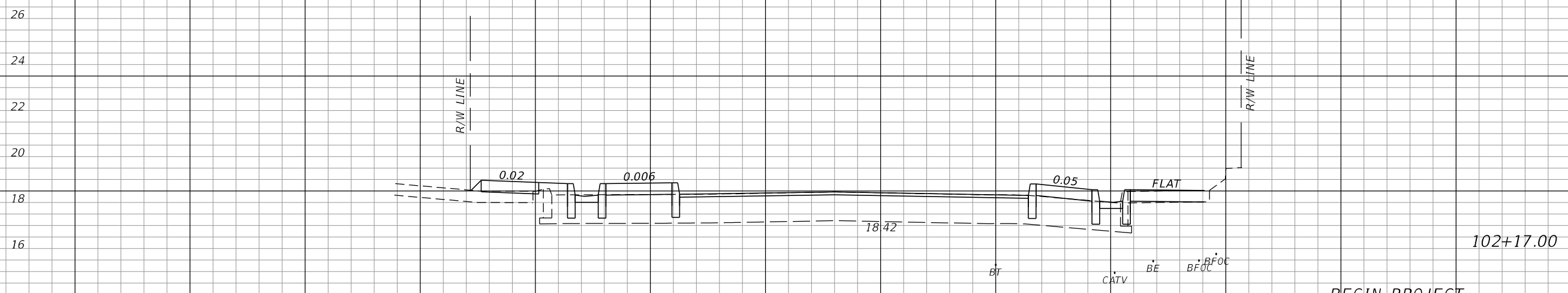
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END PROJECT
 END CONSTRUCTION
 STA. 103+10.42 @ SURVEY W. CLEVELAND ST.



6" PE GAS
 Vvh 18 @ STA. 102+63.98

102+82.00



6" PE GAS
 Vvh 5 @ STA. 102+31.01

BEGIN PROJECT
 BEGIN CONSTRUCTION
 STA. 102+03.05 @ SURVEY W. CLEVELAND ST.

SCALE: 1" = 10' HORIZ.
 1" = 5' VERT.

102+17.00

@ SURVEY W. CLEVELAND ST.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

FALLER, DAVIS & ASSOCIATES, INC
 4200 W. CYPRESS ST., SUITE 500
 TAMPA, FLORIDA 33607-4168
 KENNETH R. MUZYK, JR., P.E. NO.: 44076

CITY OF TAMPA		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	HILLSBOROUGH	443711-2-58-01

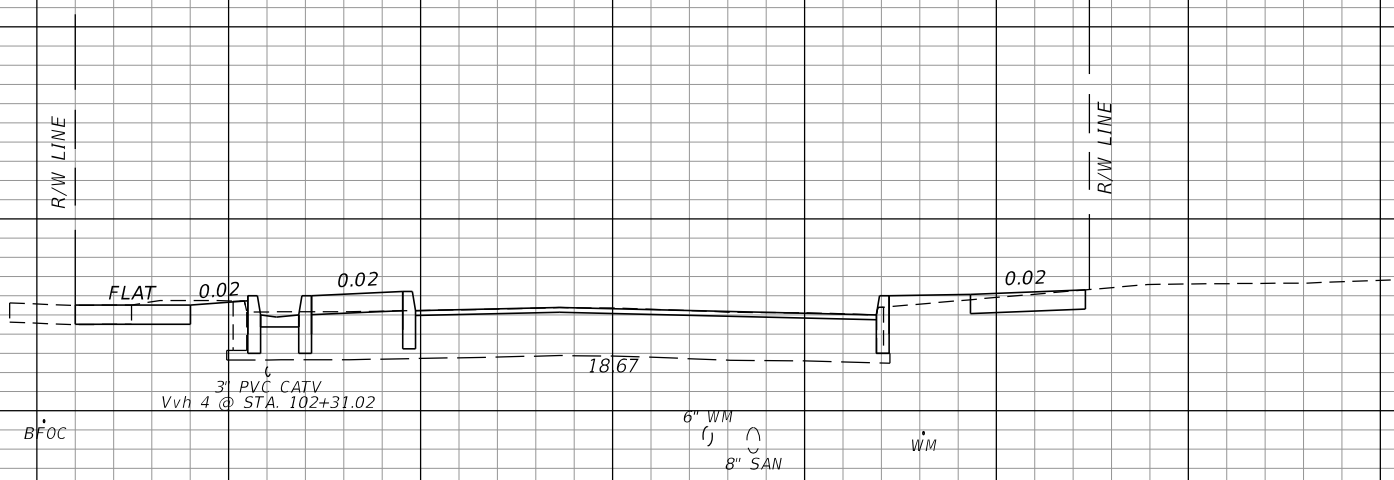
CROSS SECTIONS

SHEET NO.
 11

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← SURVEY S. ROME AVE.

26
24
22
20
18
16
14
12



END CONSTRUCTION
STA. 203+30.44 @ SURVEY S. ROME AVE.

202+93.00

BEGIN CONSTRUCTION
STA. 202+00.83 @ SURVEY S. ROME AVE.

SCALE: 1" = 10' HORIZ.
1" = 5' VERT.

← SURVEY S. ROME AVE.

70 60 50 40 30 20 10 0 10 20 30 40 50

REVISIONS				CITY OF TAMPA			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					HILLSBOROUGH	443711-2-58-01	12

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

GENERAL NOTES

1. THE EXISTING SPEED LIMIT OF 35 MPH SHALL REMAIN IN EFFECT AT ALL TIMES.
2. LANE CLOSURE RESTRICTIONS:
6:00 AM TO 9:00 AM
4:00 PM TO 6:00 PM
3. ALL PEDESTRIAN IMPROVEMENTS INCLUDING SIDEWALK, RAMPS, DETECTABLE WARNINGS AND PEDESTRIAN SIGNALS IN THE WORK AREAS SHALL BE FULLY FUNCTIONAL BEFORE THE WORK AREA IS RE-OPENED AND USED FOR SUBSEQUENT PEDESTRIAN DETOURS.

PHASING NOTES

PHASE I

1. PLACE ADVANCED WARNING SIGNS AND CHANNELIZING DEVICES UTILIZING TTCP (1) AND STANDARD PLANS INDEX NOS. 102-600, 102-601, 102-602, AND 102-615.
2. CONSTRUCT PROPOSED CURB & GUTTER AND SIDEWALKS AND INSTALL PEDESTRIAN SIGNALIZATION AND MAST ARM ALONG THE SOUTH SIDE OF W. CLEVELAND ST. UTILIZING STANDARD PLANS INDEX NOS. 102-600, 102-601, 102-602, 102-613, 102-615 AND 102-660.

PHASE II

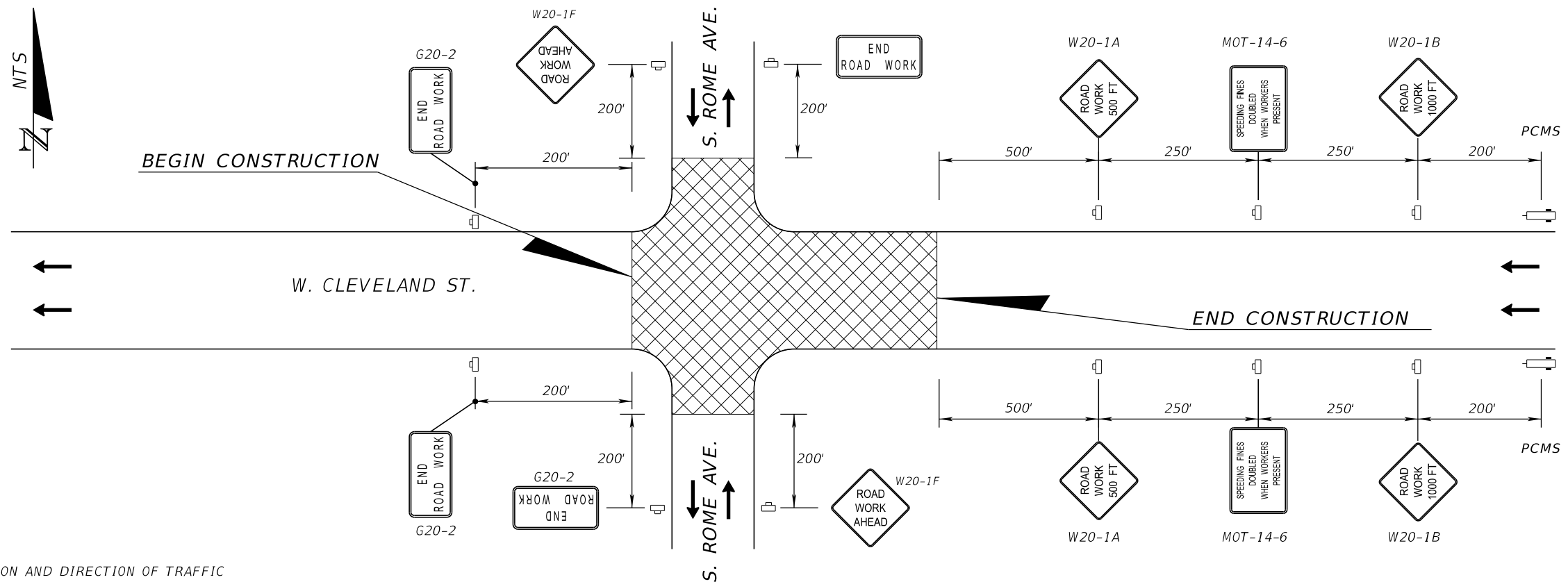
1. PLACE ADVANCED WARNING SIGNS AND CHANNELIZING DEVICES UTILIZING TTCP (1) AND STANDARD PLANS INDEX NOS. 102-600, 102-601, 102-602, AND 102-615.
2. CONSTRUCT PROPOSED CURB & GUTTER, SIDEWALKS AND PAVEMENT RECONSTRUCTION AND INSTALL PEDESTRIAN SIGNALIZATION AND MAST ARM ALONG THE NORTH SIDE OF W. CLEVELAND ST. UTILIZING STANDARD PLANS INDEX NOS. 102-600, 102-601, 102-602, 102-613, 102-615, 102-660 AND 102-661.

PHASE III

1. MILL AND RESURFACE THE EXISTING PAVEMENT UTILIZING STANDARD PLANS INDEX NOS. 102-600 AND 102-615.
2. APPLY THE FINAL PAVEMENT MARKINGS PER THE SIGNING AND PAVEMENT MARKING PLANS UTILIZING STANDARD PLANS INDEX NOS. 102-600, 102-604, 102-607 AND 102-615.

PORTABLE CHANGEABLE MESSAGE SIGN

	14 DAYS PRIOR TO CONSTRUCTION	DURING CONSTRUCTION
MESSAGE 1	ROAD WORK AHEAD	LANE CLOSED AHEAD
MESSAGE 2	BEGINS XX/XX	MERGE LEFT/RIGHT



ADVANCE WARNING SIGN DIAGRAM

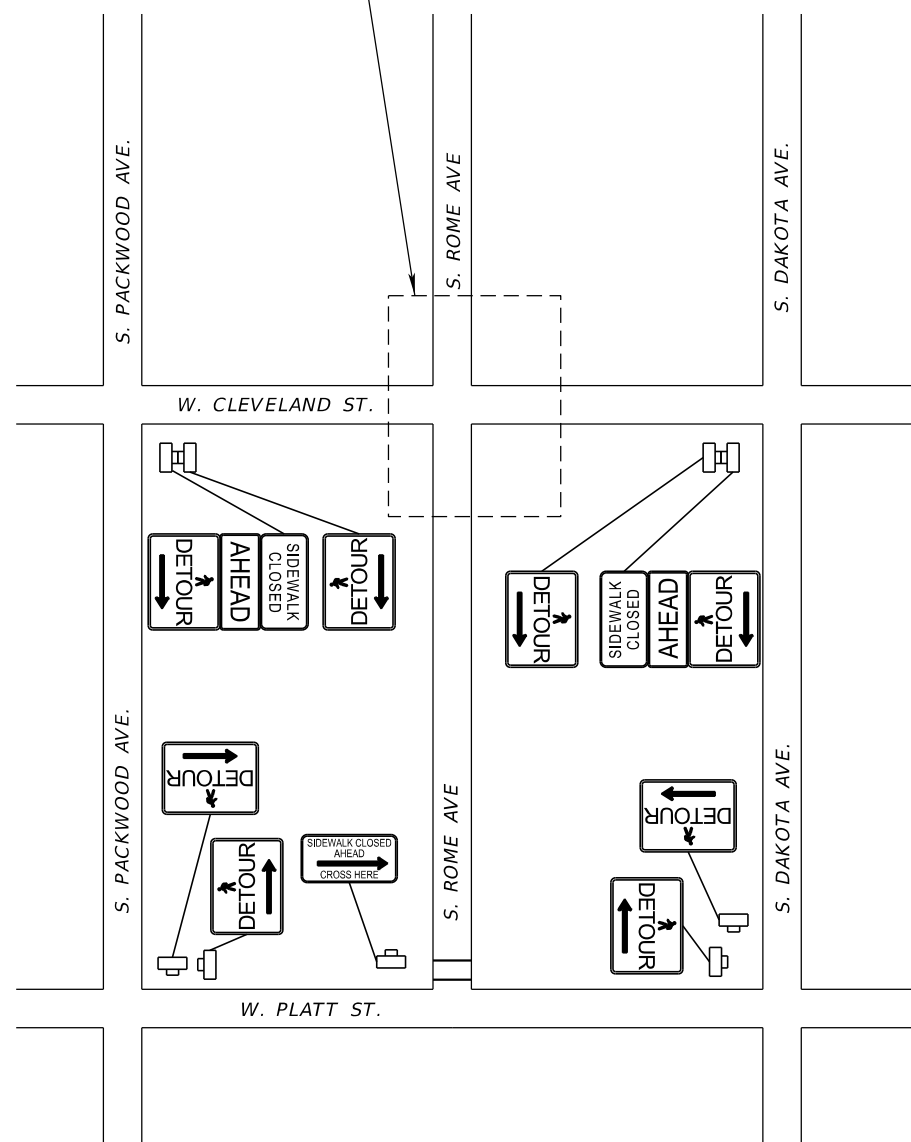
NTS

LEGEND

- WORK ZONE SIGN
- LANE IDENTIFICATION AND DIRECTION OF TRAFFIC
- PORTABLE CHANGEABLE MESSAGE SIGN
- WORK ZONE

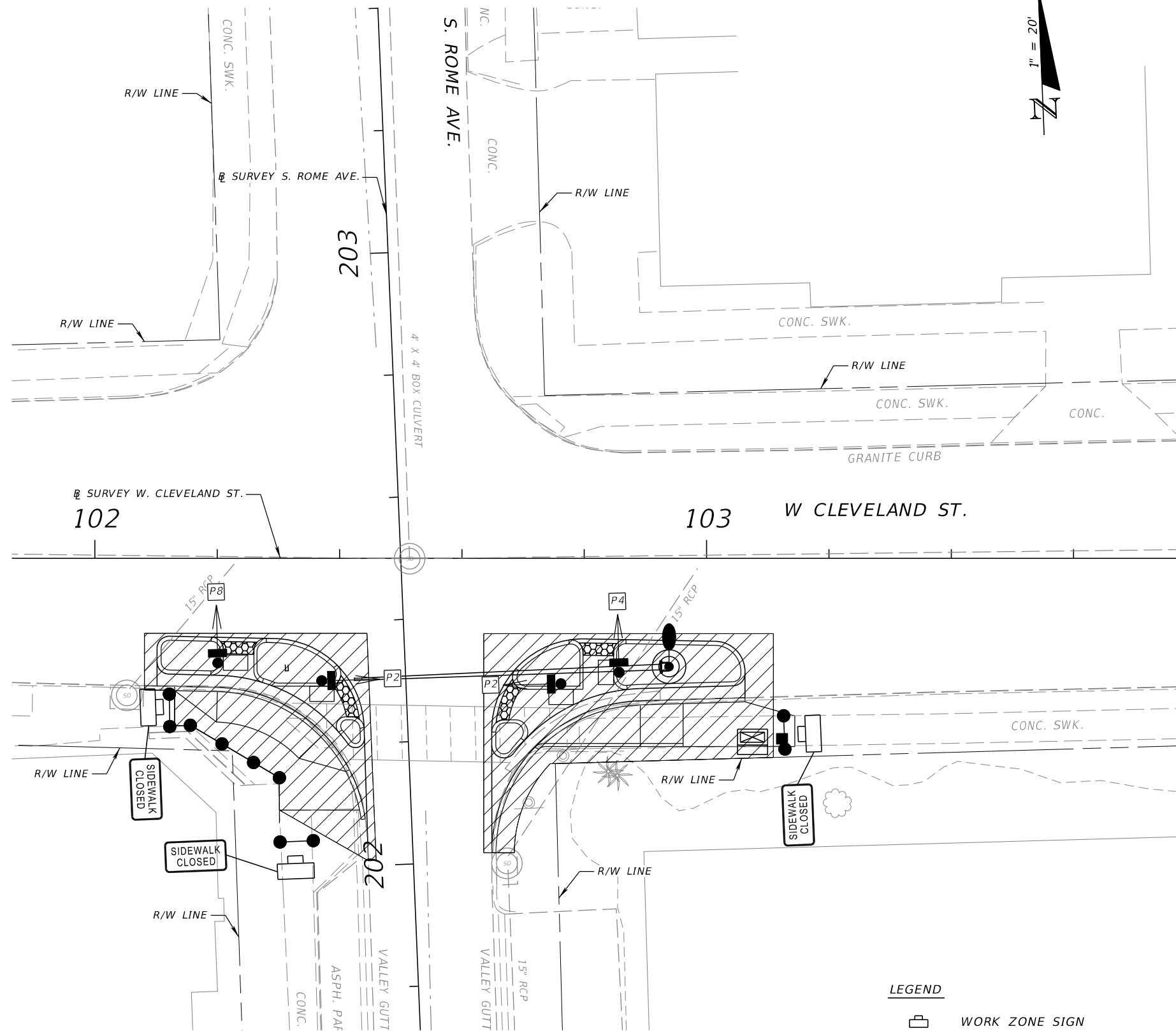
REVISIONS				FALLER, DAVIS & ASSOCIATES, INC 4200 W. CYPRESS ST., SUITE 500 TAMPA, FLORIDA 33607-4168 KENNETH R. MUZYK, JR., P.E. NO.: 44076	CITY OF TAMPA		TEMPORARY TRAFFIC CONTROL PLAN (1)	SHEET NO. 13
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	FINANCIAL PROJECT ID		
					HILLSBOROUGH	443711-2-58-01		

PEDESTRIAN CONTROL,
PHASE I



PEDESTRIAN DETOUR- PHASE I




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PEDESTRIAN CONTROL- PHASE I

SOUTH SIDE IMPROVEMENTS

LEGEND

-  WORK ZONE SIGN
-  PEDESTRIAN LONGITUDINAL CHANNELIZING DEVICE
-  WORK ZONE



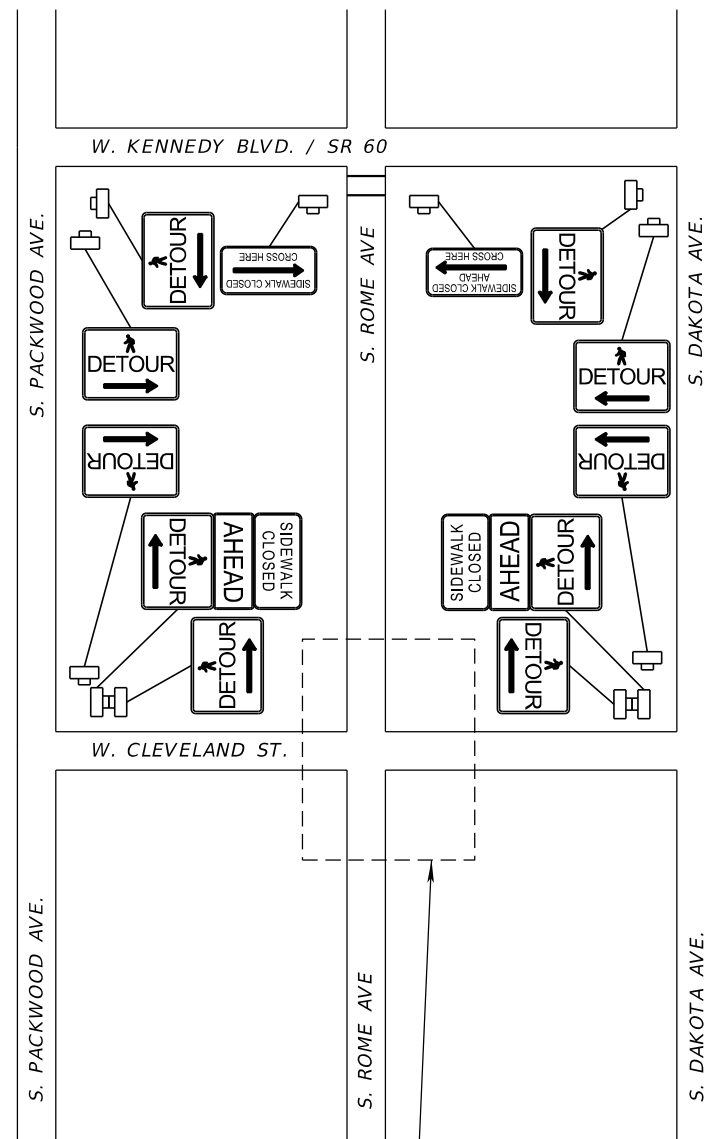
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

FALLER, DAVIS & ASSOCIATES, INC
4200 W. CYPRESS ST., SUITE 500
TAMPA, FLORIDA 33607-4168
KENNETH R. MUZYK, JR., P.E. NO.: 44076

CITY OF TAMPA		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	HILLSBOROUGH	443711-2-58-01

TEMPORARY TRAFFIC CONTROL PLAN (2)	

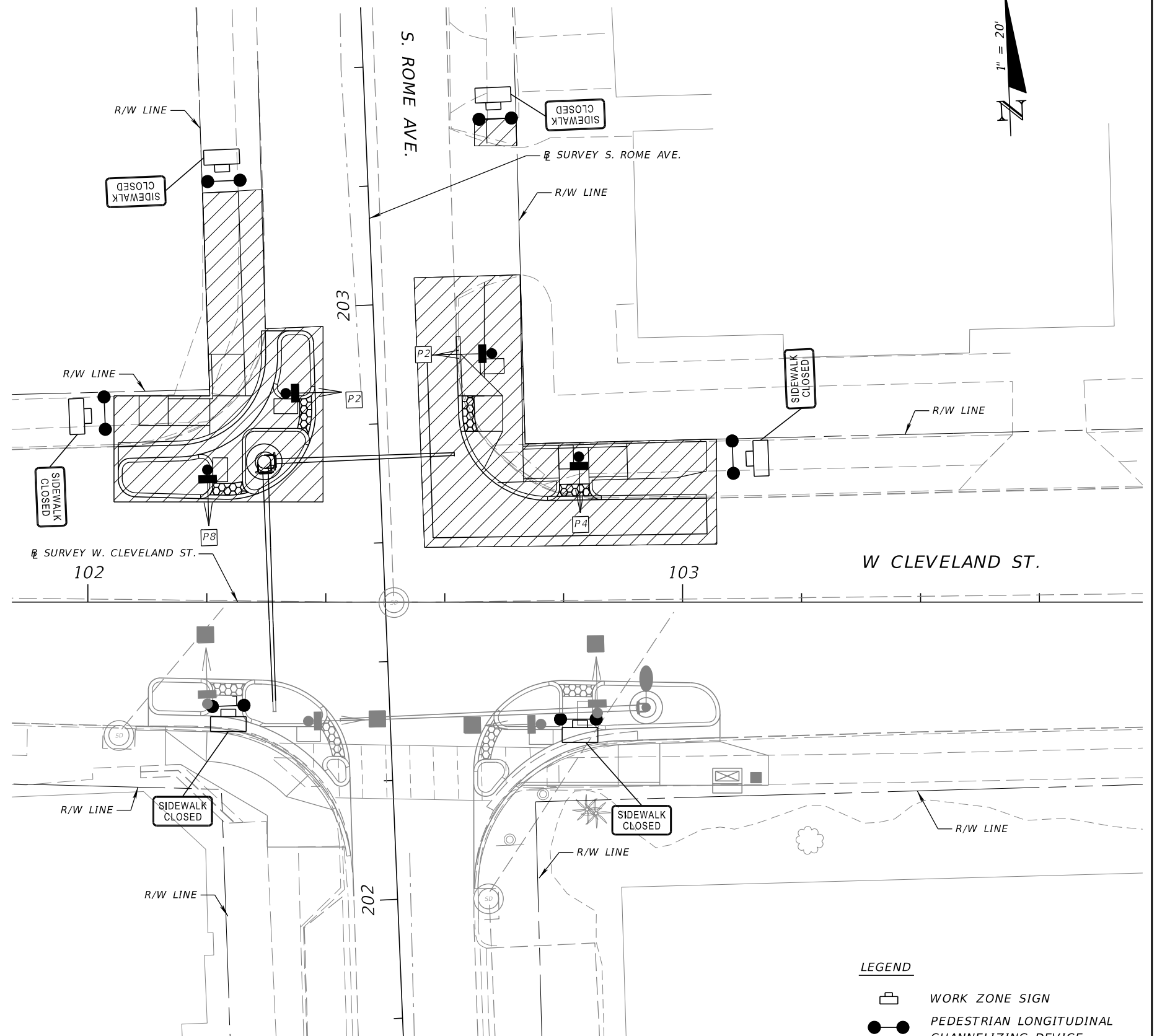
SHEET NO.
14



PEDESTRIAN CONTROL,
PHASE II

PEDESTRIAN DETOUR- PHASE II




NTS



PEDESTRIAN CONTROL- PHASE II

NORTH SIDE IMPROVEMENTS

LEGEND

-  WORK ZONE SIGN
-  PEDESTRIAN LONGITUDINAL CHANNELIZING DEVICE
-  WORK ZONE

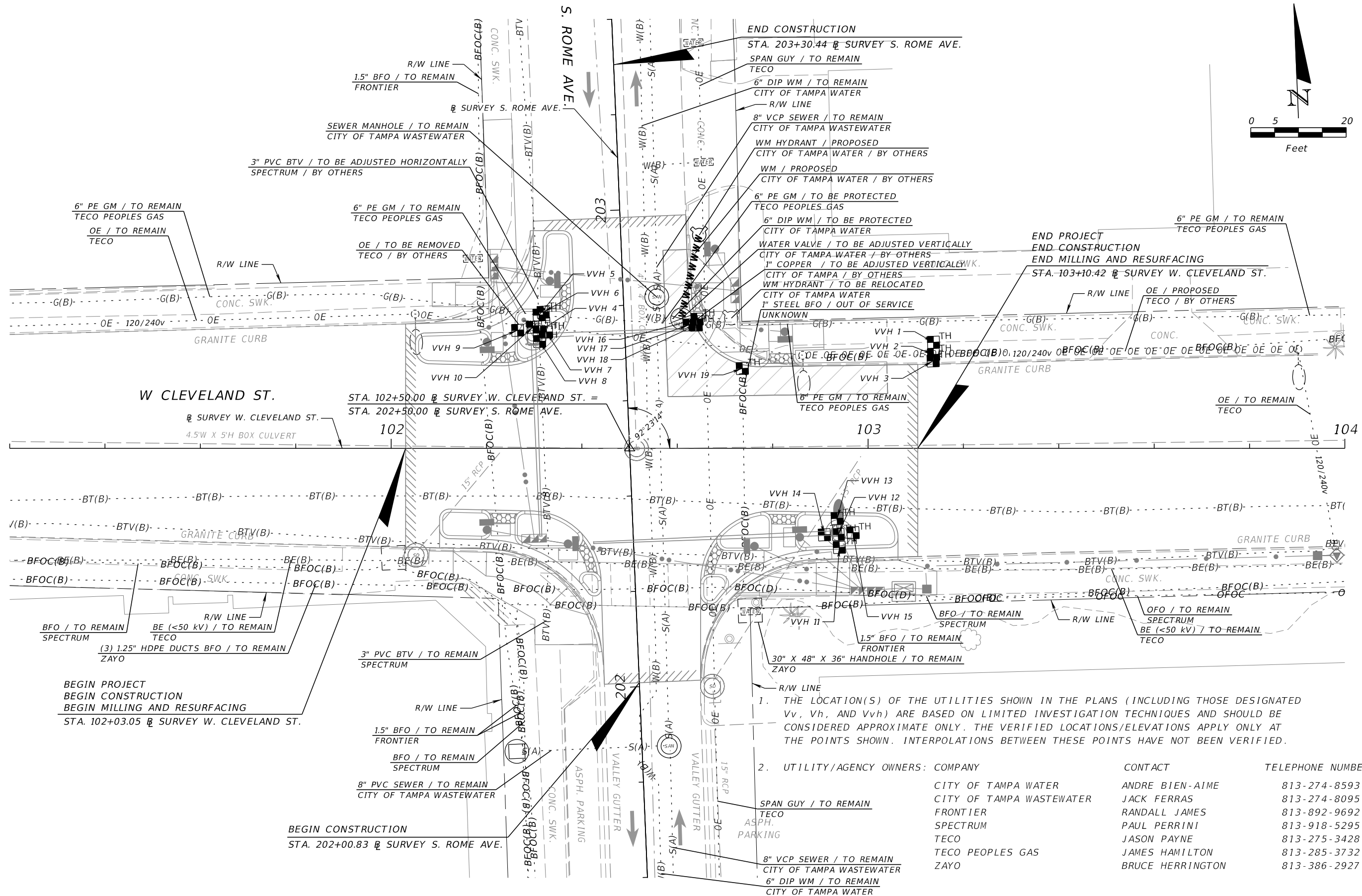
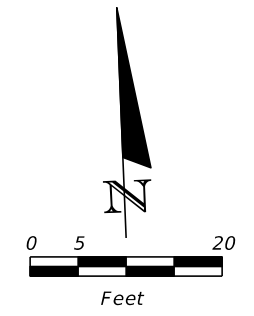
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DATE	DESCRIPTION	DATE	DESCRIPTION

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4200 W. CYPRESS ST., SUITE 500
TAMPA, FLORIDA 33607-4168
KENNETH R. MUZYK, JR., P.E. NO.: 44076

CITY OF TAMPA		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	HILLSBOROUGH	443711-2-58-01

TEMPORARY TRAFFIC CONTROL PLAN (3)	
SHEET NO. 15	

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



BEGIN PROJECT
 BEGIN CONSTRUCTION
 BEGIN MILLING AND RESURFACING
 STA. 102+03.05 @ SURVEY W. CLEVELAND ST.

BEGIN CONSTRUCTION
 STA. 202+00.83 @ SURVEY S. ROME AVE.

END CONSTRUCTION
 STA. 203+30.44 @ SURVEY S. ROME AVE.
 SPAN GUY / TO REMAIN
 TECO
 6" DIP WM / TO REMAIN
 CITY OF TAMPA WATER
 R/W LINE
 8" VCP SEWER / TO REMAIN
 CITY OF TAMPA WASTEWATER
 WM HYDRANT / PROPOSED
 CITY OF TAMPA WATER / BY OTHERS
 WM / PROPOSED
 CITY OF TAMPA WATER / BY OTHERS
 6" PE GM / TO BE PROTECTED
 TECO PEOPLES GAS
 6" DIP WM / TO BE PROTECTED
 CITY OF TAMPA WATER
 WATER VALVE / TO BE ADJUSTED VERTICALLY
 CITY OF TAMPA WATER / BY OTHERS
 1" COPPER / TO BE ADJUSTED VERTICALLY
 CITY OF TAMPA / BY OTHERS
 WM HYDRANT / TO BE RELOCATED
 CITY OF TAMPA WATER
 1" STEEL BFO / OUT OF SERVICE
 UNKNOWN

END PROJECT
 END CONSTRUCTION
 END MILLING AND RESURFACING
 STA. 103+10.42 @ SURVEY W. CLEVELAND ST.

1. THE LOCATION(S) OF THE UTILITIES SHOWN IN THE PLANS (INCLUDING THOSE DESIGNATED Vv, Vh, AND Vvh) ARE BASED ON LIMITED INVESTIGATION TECHNIQUES AND SHOULD BE CONSIDERED APPROXIMATE ONLY. THE VERIFIED LOCATIONS/ELEVATIONS APPLY ONLY AT THE POINTS SHOWN. INTERPOLATIONS BETWEEN THESE POINTS HAVE NOT BEEN VERIFIED.

2. UTILITY/AGENCY OWNERS: COMPANY CONTACT TELEPHONE NUMBERS

UTILITY/AGENCY OWNERS: COMPANY	CONTACT	TELEPHONE NUMBERS
CITY OF TAMPA WATER	ANDRE BIEN-AIME	813-274-8593
CITY OF TAMPA WASTEWATER	JACK FERRAS	813-274-8095
FRONTIER	RANDALL JAMES	813-892-9692
SPECTRUM	PAUL PERRINI	813-918-5295
TECO	JASON PAYNE	813-275-3428
TECO PEOPLES GAS	JAMES HAMILTON	813-285-3732
ZAYO	BRUCE HERRINGTON	813-386-2927 X2927

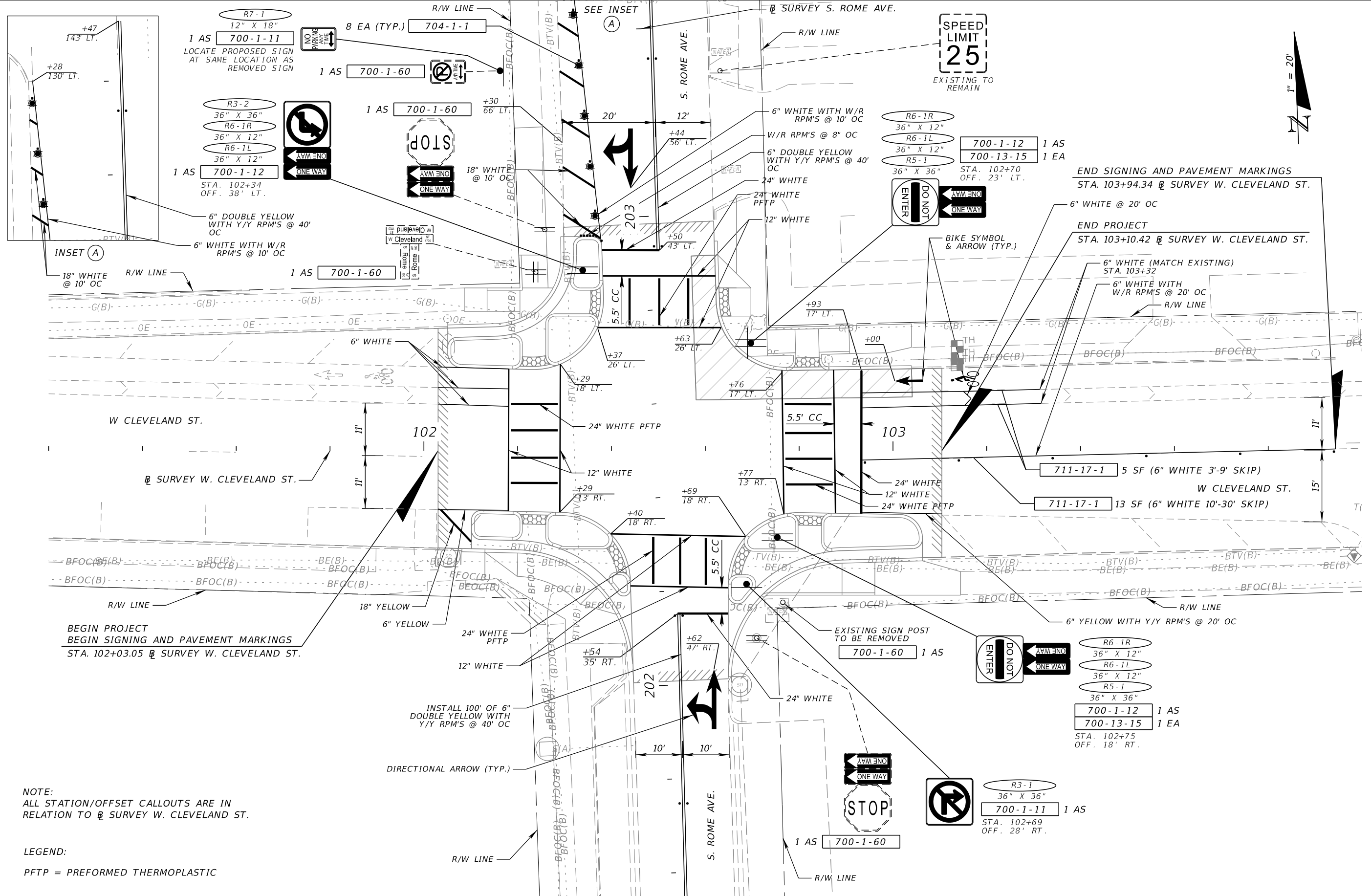
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

FALLER, DAVIS & ASSOCIATES, INC
 4200 W. CYPRESS ST., SUITE 500
 TAMPA, FLORIDA 33607-4168
 KENNETH R. MUZYK, JR., P.E. NO.: 44076

CITY OF TAMPA		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	HILLSBOROUGH	443711-2-58-01

UTILITY ADJUSTMENT

SHEET NO.
 16



R7-1
12" X 18"
1 AS 700-1-11
LOCATE PROPOSED SIGN
AT SAME LOCATION AS
REMOVED SIGN

R3-2
36" X 36"
R6-1R
36" X 12"
R6-1L
36" X 12"
1 AS 700-1-12
STA. 102+34
OFF. 38' LT.

SPEED
LIMIT
25
EXISTING TO
REMAIN

R6-1R
36" X 12"
R6-1L
36" X 12"
R5-1
36" X 36"
700-1-12 1 AS
700-13-15 1 EA
STA. 102+70
OFF. 23' LT.

END SIGNING AND PAVEMENT MARKINGS
STA. 103+94.34 @ SURVEY W. CLEVELAND ST.

END PROJECT
STA. 103+10.42 @ SURVEY W. CLEVELAND ST.

711-17-1 5 SF (6" WHITE 3'-9" SKIP)
W CLEVELAND ST.

711-17-1 13 SF (6" WHITE 10'-30" SKIP)

R6-1R
36" X 12"
R6-1L
36" X 12"
R5-1
36" X 36"
700-1-12 1 AS
700-13-15 1 EA
STA. 102+75
OFF. 18' RT.

R3-1
36" X 36"
700-1-11 1 AS
STA. 102+69
OFF. 28' RT.

BEGIN PROJECT
BEGIN SIGNING AND PAVEMENT MARKINGS
STA. 102+03.05 @ SURVEY W. CLEVELAND ST.

INSTALL 100' OF 6"
DOUBLE YELLOW WITH
Y/Y RPM'S @ 40' OC

NOTE:
ALL STATION/OFFSET CALLOUTS ARE IN
RELATION TO @ SURVEY W. CLEVELAND ST.

LEGEND:
PFTP = PREFORMED THERMOPLASTIC



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

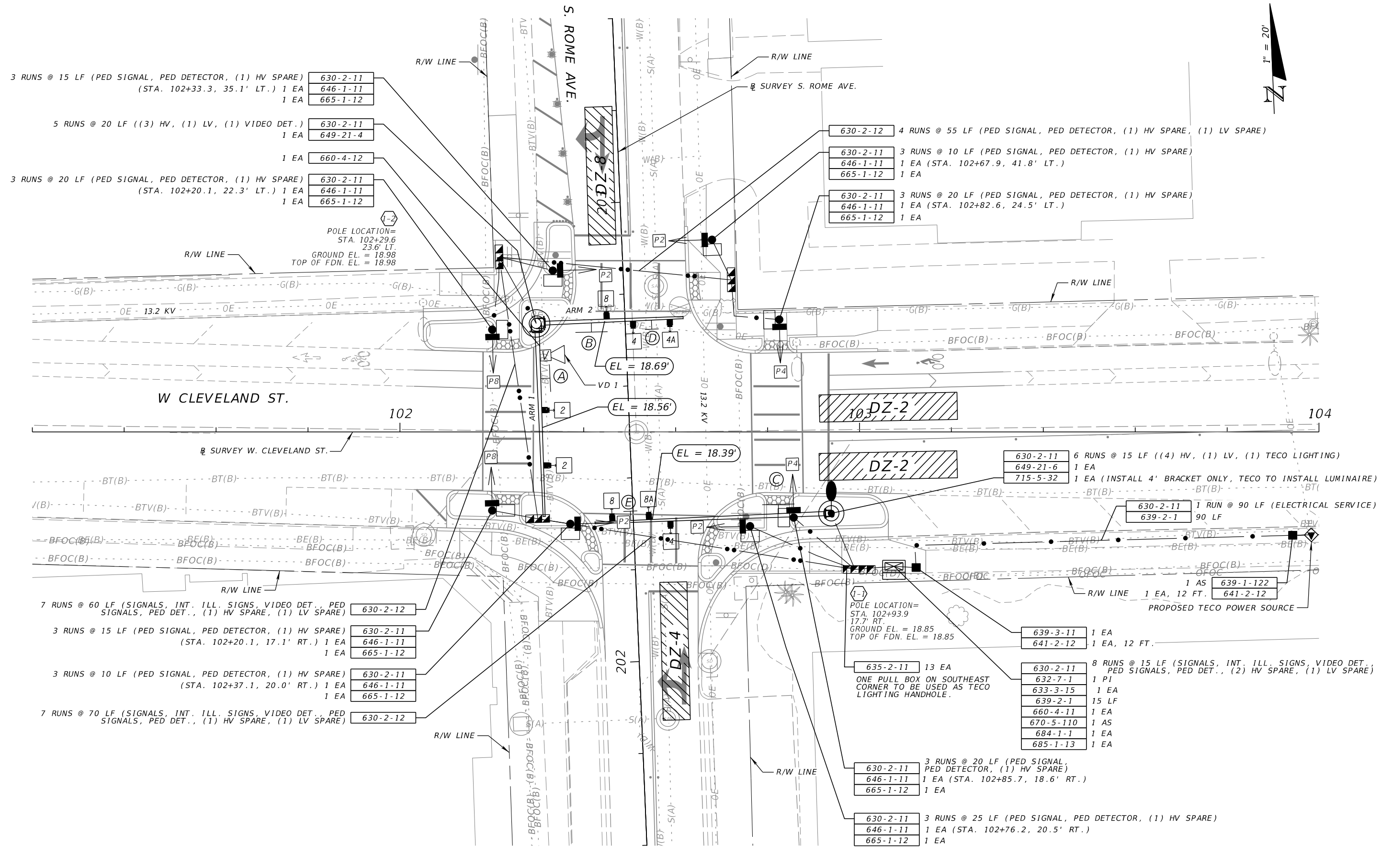
FALLER, DAVIS & ASSOCIATES, INC
4200 W. CYPRESS ST., SUITE 500
TAMPA, FLORIDA 33607-4168
PATRICIA T. CHRISTIE, P.E. NO.: 60049

CITY OF TAMPA		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	HILLSBOROUGH	443711-2-58-01

**SIGNING AND PAVEMENT
MARKING PLAN**

SHEET
NO.
17

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



- 3 RUNS @ 15 LF (PED SIGNAL, PED DETECTOR, (1) HV SPARE) 1 EA 630-2-11
(STA. 102+33.3, 35.1' LT.) 1 EA 646-1-11
1 EA 665-1-12
- 5 RUNS @ 20 LF ((3) HV, (1) LV, (1) VIDEO DET.) 1 EA 630-2-11
1 EA 649-21-4
- 1 EA 660-4-12
- 3 RUNS @ 20 LF (PED SIGNAL, PED DETECTOR, (1) HV SPARE) 1 EA 630-2-11
(STA. 102+20.1, 22.3' LT.) 1 EA 646-1-11
1 EA 665-1-12

- 630-2-12 4 RUNS @ 55 LF (PED SIGNAL, PED DETECTOR, (1) HV SPARE, (1) LV SPARE)
- 630-2-11 3 RUNS @ 10 LF (PED SIGNAL, PED DETECTOR, (1) HV SPARE)
- 646-1-11 1 EA (STA. 102+67.9, 41.8' LT.)
- 665-1-12 1 EA
- 630-2-11 3 RUNS @ 20 LF (PED SIGNAL, PED DETECTOR, (1) HV SPARE)
- 646-1-11 1 EA (STA. 102+82.6, 24.5' LT.)
- 665-1-12 1 EA

- 630-2-11 6 RUNS @ 15 LF ((4) HV, (1) LV, (1) TECO LIGHTING)
- 649-21-6 1 EA
- 715-5-32 1 EA (INSTALL 4' BRACKET ONLY, TECO TO INSTALL LUMINAIRE)
- 630-2-11 1 RUN @ 90 LF (ELECTRICAL SERVICE)
- 639-2-1 90 LF
- 1 AS 639-1-122
- 1 EA, 12 FT. 641-2-12

- 7 RUNS @ 60 LF (SIGNALS, INT. ILL. SIGNS, VIDEO DET., PED SIGNALS, PED DET., (1) HV SPARE, (1) LV SPARE) 630-2-12
- 3 RUNS @ 15 LF (PED SIGNAL, PED DETECTOR, (1) HV SPARE) 1 EA 630-2-11
(STA. 102+20.1, 17.1' RT.) 1 EA 646-1-11
1 EA 665-1-12
- 3 RUNS @ 10 LF (PED SIGNAL, PED DETECTOR, (1) HV SPARE) 1 EA 630-2-11
(STA. 102+37.1, 20.0' RT.) 1 EA 646-1-11
1 EA 665-1-12
- 7 RUNS @ 70 LF (SIGNALS, INT. ILL. SIGNS, VIDEO DET., PED SIGNALS, PED DET., (1) HV SPARE, (1) LV SPARE) 630-2-12

- 635-2-11 13 EA
- ONE PULL BOX ON SOUTHEAST CORNER TO BE USED AS TECO LIGHTING HANDHOLE.
- 630-2-11 8 RUNS @ 15 LF (SIGNALS, INT. ILL. SIGNS, VIDEO DET., PED SIGNALS, PED DET., (2) HV SPARE, (1) LV SPARE)
- 632-7-1 1 PI
- 633-3-15 1 EA
- 639-2-1 15 LF
- 660-4-11 1 EA
- 670-5-110 1 AS
- 684-1-1 1 EA
- 685-1-13 1 EA
- 630-2-11 3 RUNS @ 20 LF (PED SIGNAL, PED DETECTOR, (1) HV SPARE)
- 646-1-11 1 EA (STA. 102+85.7, 18.6' RT.)
- 665-1-12 1 EA
- 630-2-11 3 RUNS @ 25 LF (PED SIGNAL, PED DETECTOR, (1) HV SPARE)
- 646-1-11 1 EA (STA. 102+76.2, 20.5' RT.)
- 665-1-12 1 EA

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

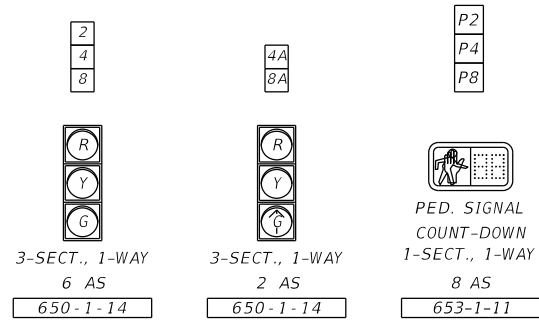
FALLER, DAVIS & ASSOCIATES, INC
4200 W. CYPRESS ST., SUITE 500
TAMPA, FLORIDA 33607-4168
PATRICIA T. CHRISTIE, P.E. NO.: 60049

CITY OF TAMPA		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	HILLSBOROUGH	443711-2-58-01

SIGNALIZATION PLAN (1)

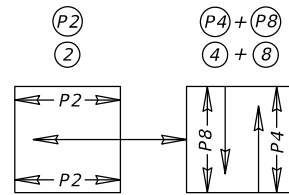
SHEET NO.
18

SIGNAL DISPLAY DETAILS



ALL SIGNALS SHALL HAVE REFLECTORIZED BACKPLATES

S.O.P. # 1



NOTES:

- MAJOR STREET IS WEST CLEVELAND ST. (MOVEMENT 2), AND MINOR STREET IS SOUTH ROME AVE. (MOVEMENTS 4 AND 8).
- SIGNAL OPERATING PLAN # 1 WITH THE FOLLOWING:
 - (A) CONCURRENT/ACTUATED PEDESTRIANS FOR MOVEMENTS 2 (P2), 4 (P4), AND 8 (P8).
 - (B) WHEN SIGNAL IS IN FLASHING MODE, MOVEMENT 2 SHALL FLASH YELLOW. ALL OTHER VEHICLE MOVEMENTS SHALL FLASH RED.
- THE POSTED SPEED LIMITS ARE AS FOLLOWS:
 - WEST CLEVELAND ST. = 35 MPH
 - SOUTH ROME AVE. = 25 MPH



700-5-22 1 EA



700-5-22 1 EA



700-5-22 1 EA



R3-1
36" X 36"
700-3-201 1 EA



R3-2
36" X 36"
700-3-201 1 EA

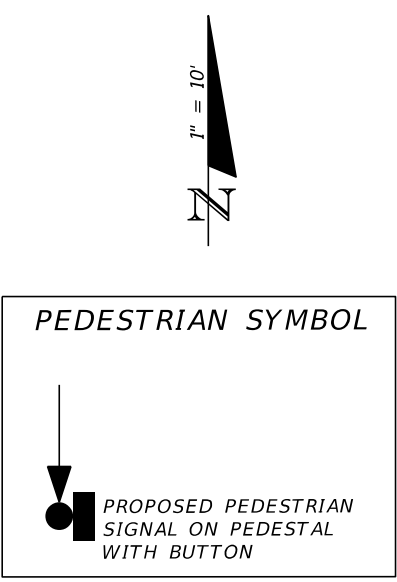
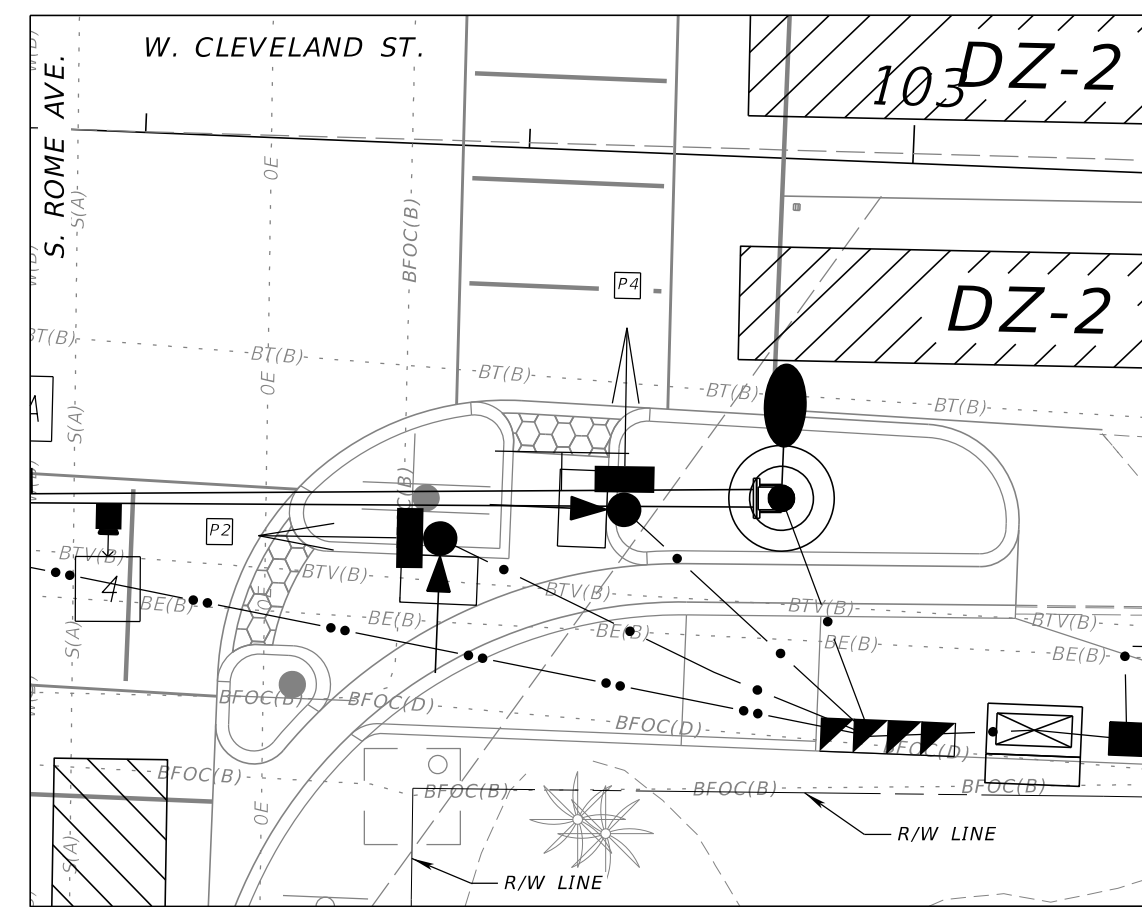
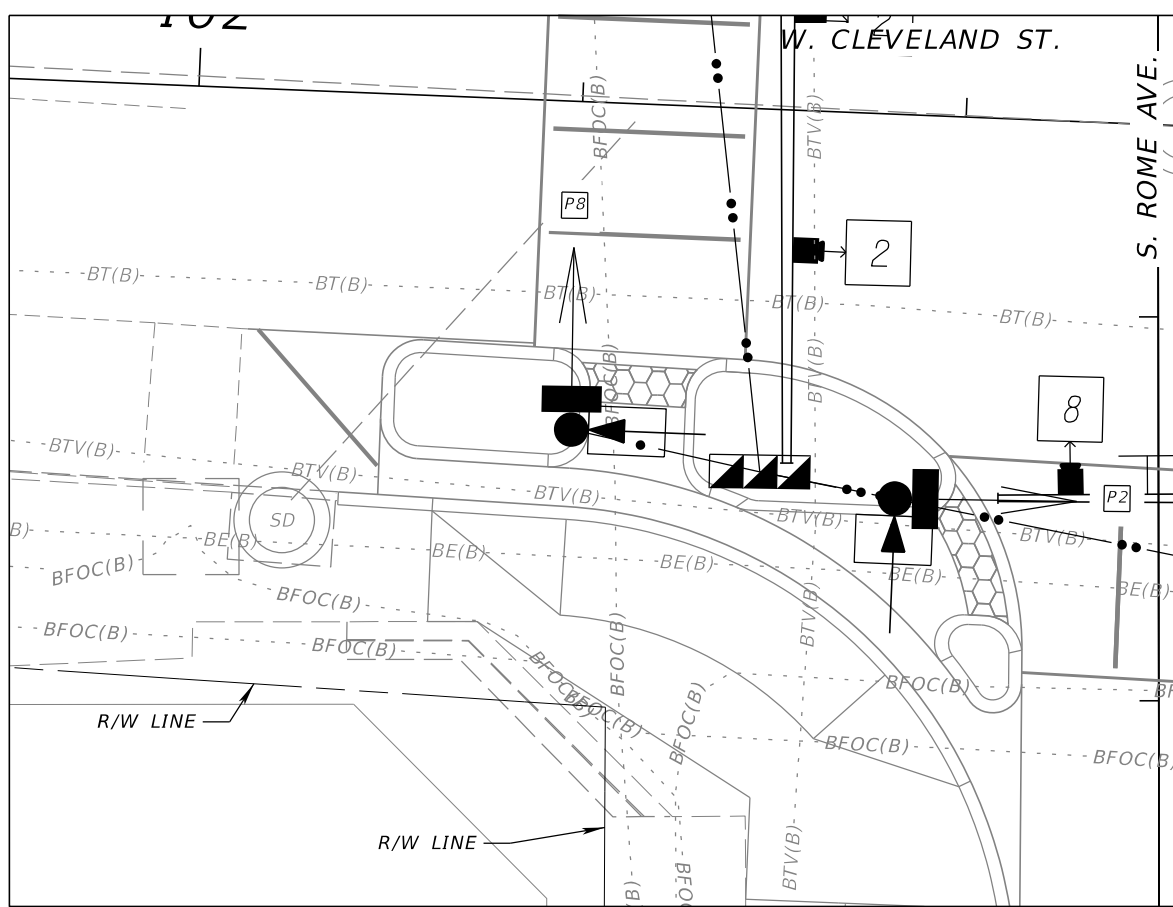
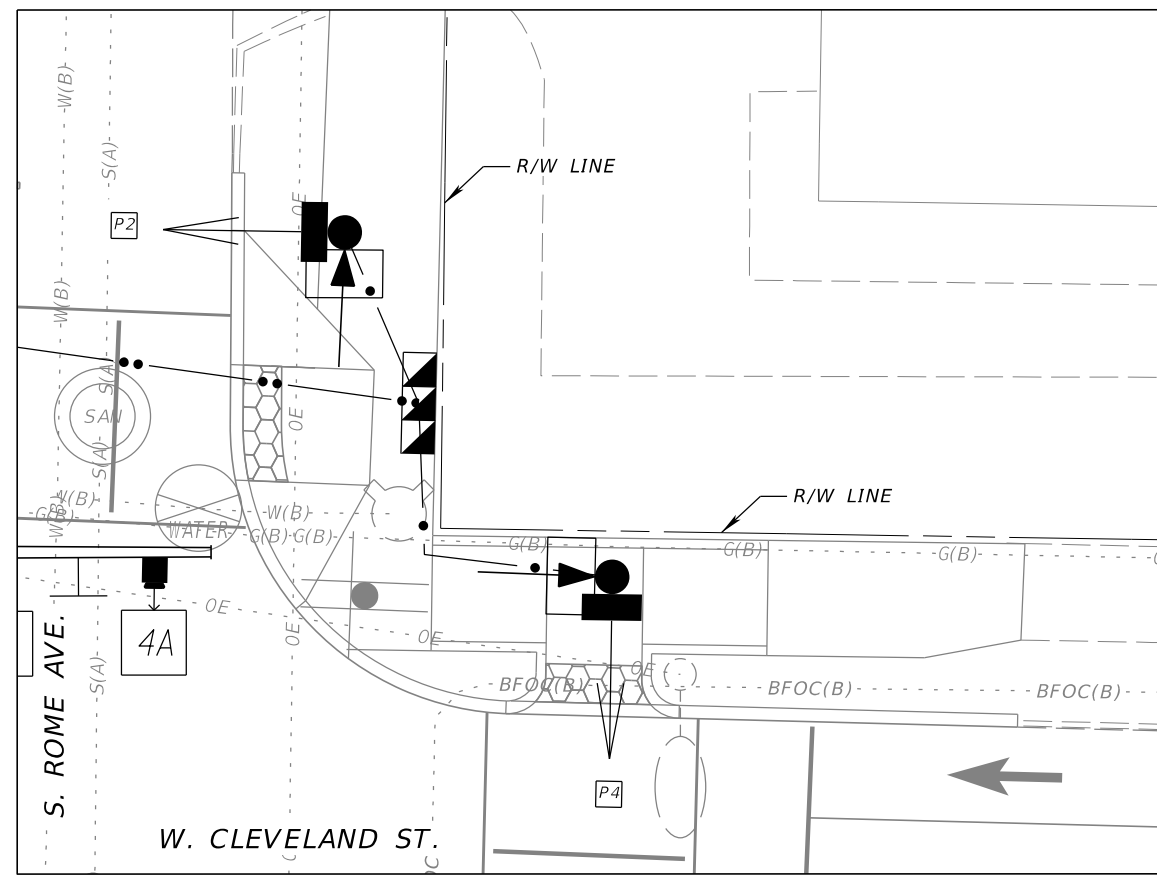
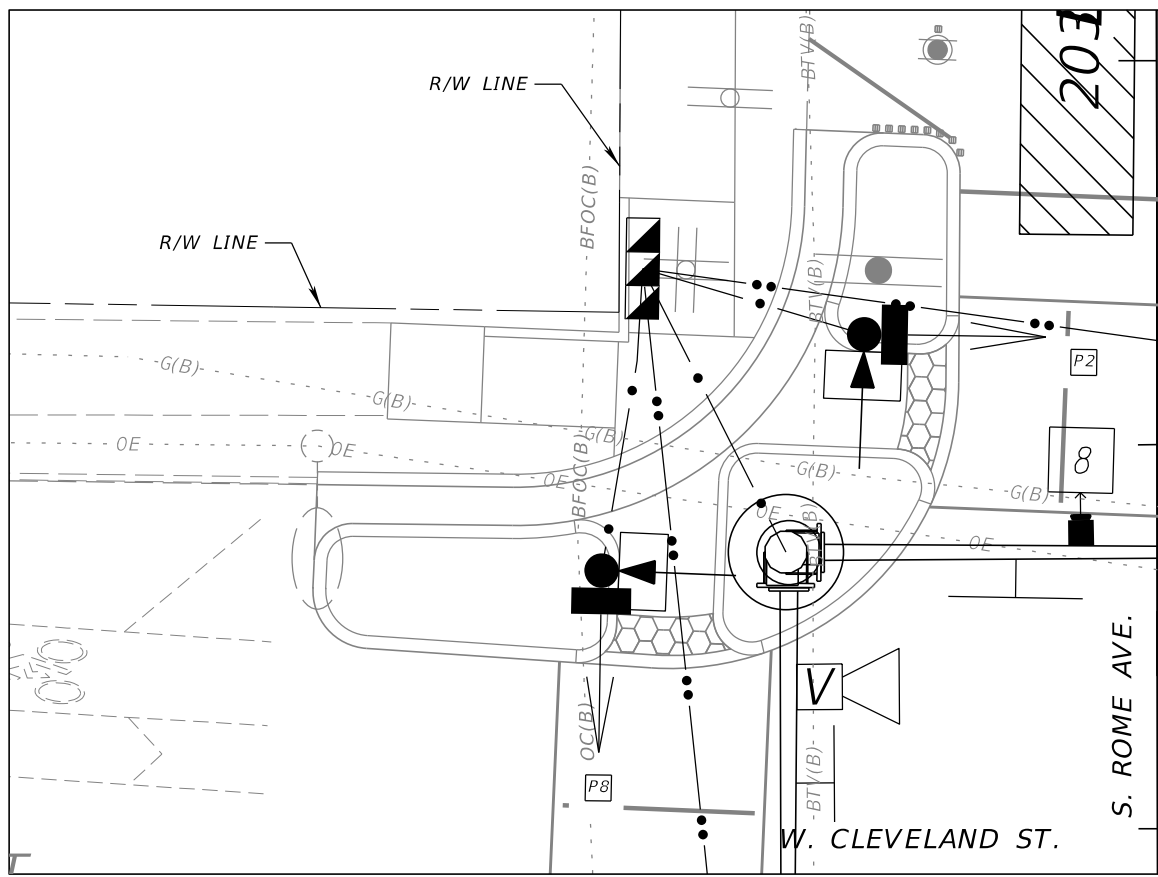
FISHEYE VIDEO DETECTION			
VIDEO DETECTOR	DETECTION ZONE	DELAY (SEC)	SIZE
VD 1	DZ-2		6'X30'
	DZ-4	5	6'X30'
	DZ-8	5	6'X30'

CONTROLLER TIMINGS								
MOVEMENT NUMBER (CONTROLLER PHASE Ø)	1	2	3	4	5	6	7	8
DIRECTION		WB		NB				SB
TURN TYPE								
MIN GREEN		10		6				6
EXT		3.0		3.0				3.0
YELLOW		4.0		3.4				3.4
ALL RED		2.0		2.1				2.1
MAX I		30		30				30
MAX II								
WALK		7		7				7
FLASHING DON'T WALK		5		7				7
VEHICLE RECALL								

TIMINGS ARE INITIAL AND MAY REQUIRE ADJUSTING.

HILLSBOROUGH COUNTY
W. CLEVELAND ST. AT S. ROME AVE.

REVISIONS				FALLER, DAVIS & ASSOCIATES, INC 4200 W. CYPRESS ST., SUITE 500 TAMPA, FLORIDA 33607-4168 PATRICIA T CHRISTIE, P.E. NO.: 60049	CITY OF TAMPA			SHEET NO. 19
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					HILLSBOROUGH	443711-2-58-01	SIGNALIZATION PLAN (2)	



- NOTES:
1. ALL PED DETECTOR BUTTONS MUST HAVE 10 INCH REACH FROM ALL WEATHER SURFACE.
 2. ALL PED DETECTOR BUTTONS MUST BE 42 INCHES IN HEIGHT FROM THE ALL WEATHER SURFACE.
 3. PEDESTRIAN SIGNALS MUST NOT BE HIGHER THAN 8 FEET FROM THE ALL WEATHER SURFACE TO BOTTOM OF THE PEDESTRIAN SIGNAL HEAD.
 4. PURCHASE PED BUTTONS ACCORDING TO THE DIRECTION OF THE PED RAMP. BUTTONS MUST NOT BE TAKEN APART TO ADJUST TACTILE ARROW.
 5. NO PED BUTTON EXTENSIONS WILL BE ACCEPTED.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

FALLER, DAVIS & ASSOCIATES, INC
 4200 W. CYPRESS ST., SUITE 500
 TAMPA, FLORIDA 33607-4168
 PATRICIA T CHRISTIE, P.E. NO.: 60049

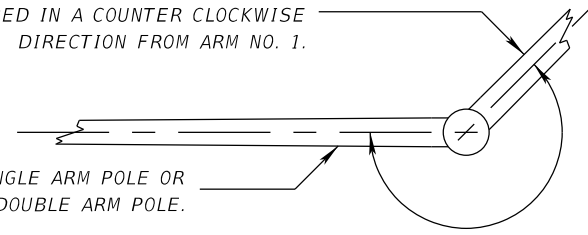
CITY OF TAMPA		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	HILLSBOROUGH	443711-2-58-01

**PEDESTRIAN SIGNAL
 DETAIL**

SHEET NO.
 20

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

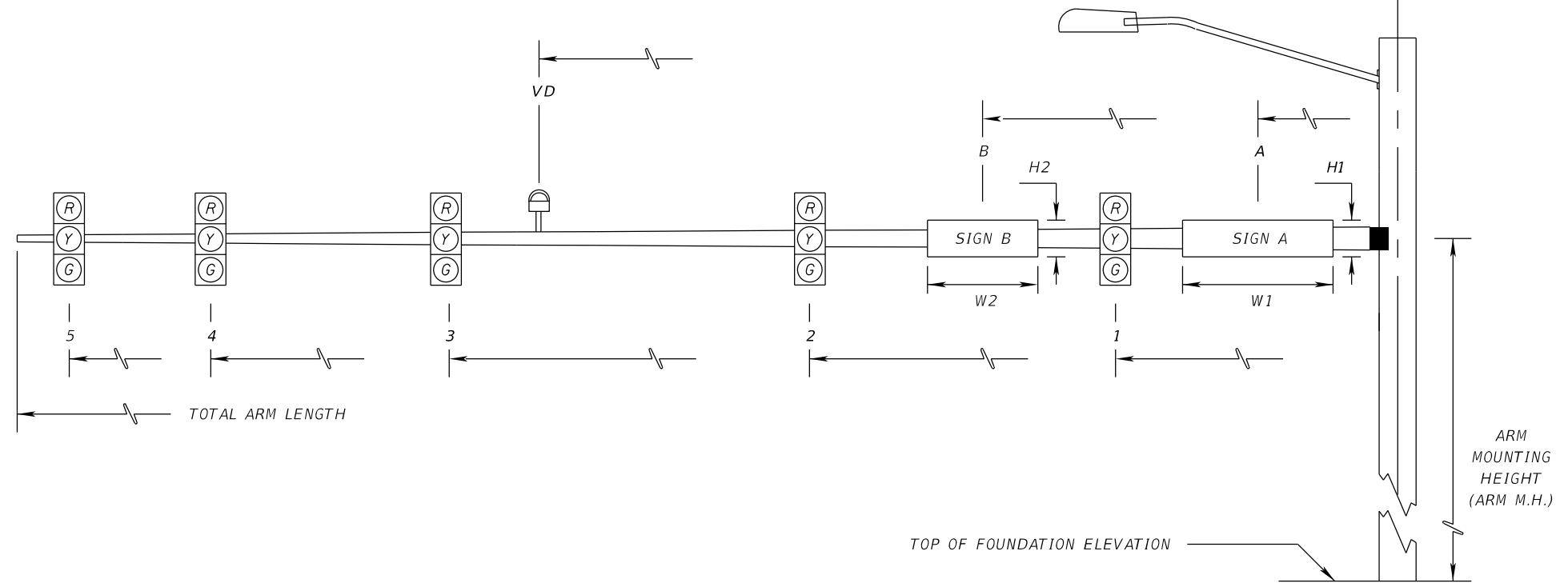
ARM NO. 1 - SINGLE ARM POLE OR
LONGEST ARM FOR DOUBLE ARM POLE.



MAST ARM LIGHT FIXTURE					
POLE ID NO.	SHEET NO.	LOCATION BY STA.	ARM LENGTH	MOUNTING HEIGHT	ORIENTATION (DEGREES) +
1-1	19	102+93.9	4'	30'	270

+ ORIENTATION MEASURED AS DEGREES
COUNTER-CLOCKWISE FROM MAST ARM NO. 1

ONLY BRACKET TO BE FURNISHED AND INSTALLED.
LUMINAIRE TO BE INSTALLED BY TECO.



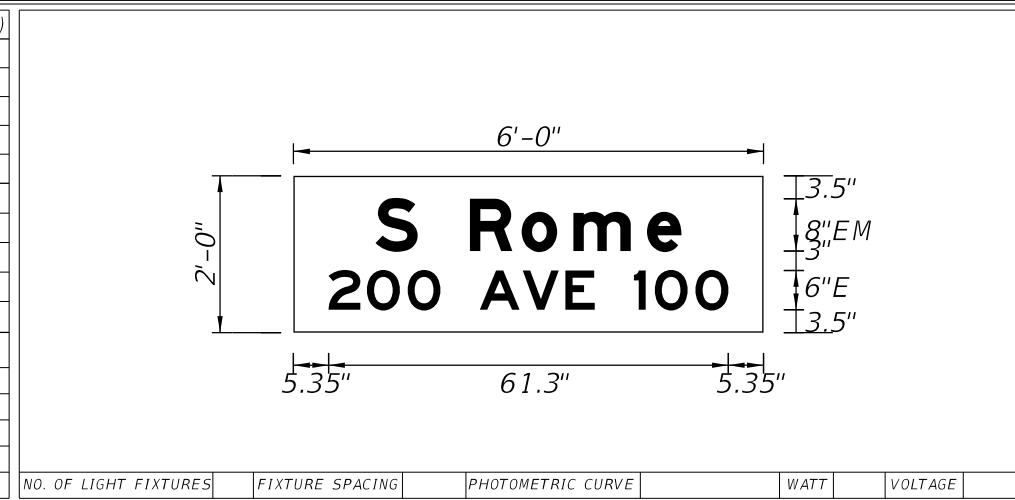
* DENOTES NUMBER OF SECTIONS IN SIGNAL HEAD ASSEMBLY

ID NO.	SHEET NO.	LOCATION BY STA.	TOP OF FOUND. ELEVATION	RDWY ARM NO.	CROWN ELEV.	SIGNAL DATA												LIGHTING DATA			SIGN DATA						FISHEYE VIDEO DETECTION (VD) DISTANCE FROM POLE				
						SIGNAL V/H	BACK PLATES Y/N	PED. SIGNAL Y/N	DISTANCE FROM POLE												POLE MOUNTED LUMINAIRE (Y/N)	TOTAL ARM LENGTH	ARM M.H.	ANGLE BETWEEN DUAL ARMS 90/270	DISTANCE FROM POLE / HEIGHT AND WIDTH OF SIGN						
									1	*	2	*	3	*	4	*	5	*	6	*					A	H1		W1	B	H2	W2
1-1	19	102+93.9	18.85	1	18.39	V	Y	N	33.6	3	38.2	3	46.2	3					Y	50	19.5	N/A	10	2	7	42.2	3	3			
1-2	19	102+29.6	18.98	1	18.56	V	Y	N	16.9	3	28.9	3							N	40	19.5	90	10	2	6				5		
				2	18.69	V	Y	N	13.4	3	19.1	3	27.1	3					N	30	19.5		10	2	7	23.1	3	3			

REVISIONS				FALLER, DAVIS & ASSOCIATES, INC 4200 W. CYPRESS ST., SUITE 500 TAMPA, FLORIDA 33607-4168 PATRICIA T CHRISTIE, P.E. NO.: 60049	CITY OF TAMPA			STANDARD MAST ARM TABULATION	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
						HILLSBOROUGH	443711-2-58-01		21

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

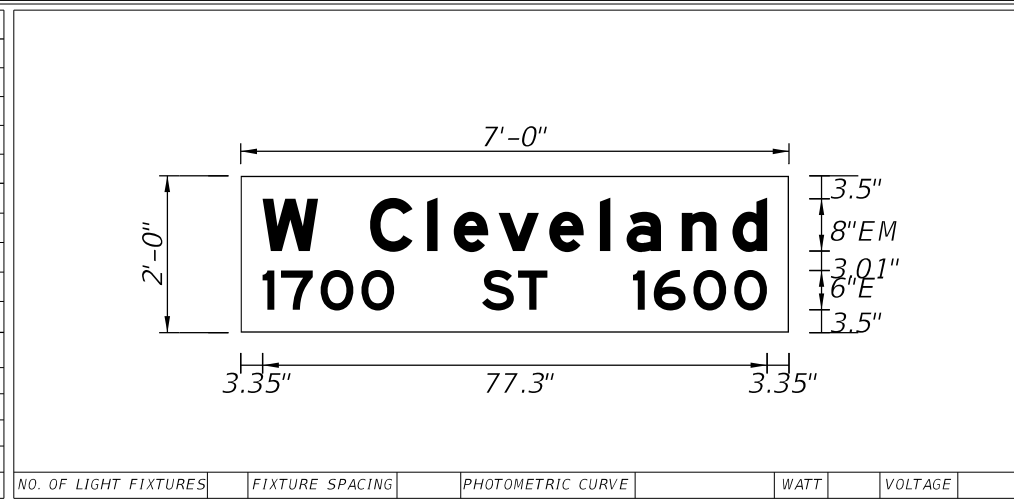
SIGN NAME	A	QTY	1 <th>SIGN NUMBER</th> <td></td> <th>STATION(S)</th> <td></td>	SIGN NUMBER		STATION(S)	
PANEL	BORDER						
WIDTH	6'-0"	WIDTH	0"				
HEIGHT	2'-0"	RADII	0"				
LEGEND	White	COLOR	White				
COLOR	Green						
SYMBOL(S)	ANGLE	X	Y	WID	HT		
SIGN NUMBER	NUMBER OF POSTS	CLEARANCE Edge Of Land	COLUMN SIZE	AVERAGE LENGTH			



NO. OF LIGHT FIXTURES	FIXTURE SPACING	PHOTOMETRIC CURVE	WATT	VOLTAGE

COPY		S		R	o	m	e	L											
SPACE	12.6	6.5	8	7.9	7.9	11.3	5.3	12.6	46.9										
COPY		2	0	0		A	V	E		1	0	0		L					
SPACE	5.4	5.9	6.2	5	6	6.6	6.5	4.5	6	3.2	6.2	5	5.4	61.3					
COPY																			
SPACE																			
COPY																			
SPACE																			
COPY																			
SPACE																			
COPY																			
SPACE																			

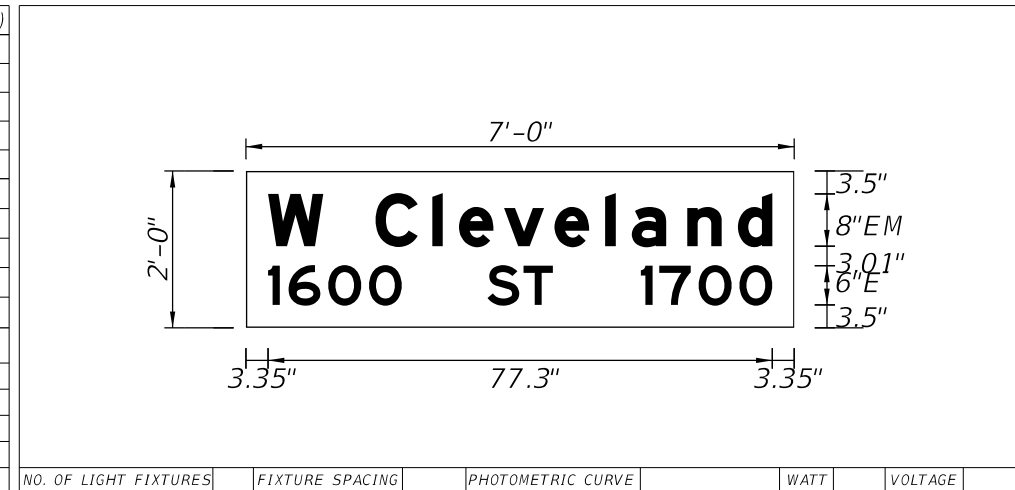
SIGN NAME	B	QTY	1 <th>SIGN NUMBER</th> <td></td> <th>STATION(S)</th> <td></td>	SIGN NUMBER		STATION(S)	
PANEL	BORDER						
WIDTH	7'-0"	WIDTH	0"				
HEIGHT	2'-0"	RADII	0"				
LEGEND	White	COLOR	White				
COLOR	Green						
SYMBOL(S)	ANGLE	X	Y	WID	HT		
SIGN NUMBER	NUMBER OF POSTS	CLEARANCE Edge Of Land	COLUMN SIZE	AVERAGE LENGTH			



NO. OF LIGHT FIXTURES	FIXTURE SPACING	PHOTOMETRIC CURVE	WATT	VOLTAGE

COPY		W		C	l	e	v	e	l	a	n	d	L						
SPACE	3.4	8.5	8	8.7	4.1	6.9	7.8	7.8	4.1	8.5	7.8	5.3	3.4	77.3					
COPY		1	7	0	0		S	T		1	6	0	0	L					
SPACE	3.4	3.2	6.1	6.2	5	13.1	5.5	4.5	13.4	2.8	6.1	6.2	5	3.4	77.3				
COPY																			
SPACE																			
COPY																			
SPACE																			
COPY																			
SPACE																			
COPY																			
SPACE																			

SIGN NAME	C	QTY	1 <th>SIGN NUMBER</th> <td></td> <th>STATION(S)</th> <td></td>	SIGN NUMBER		STATION(S)	
PANEL	BORDER						
WIDTH	7'-0"	WIDTH	0"				
HEIGHT	2'-0"	RADII	0"				
LEGEND	White	COLOR	White				
COLOR	Green						
SYMBOL(S)	ANGLE	X	Y	WID	HT		
SIGN NUMBER	NUMBER OF POSTS	CLEARANCE Edge Of Land	COLUMN SIZE	AVERAGE LENGTH			



NO. OF LIGHT FIXTURES	FIXTURE SPACING	PHOTOMETRIC CURVE	WATT	VOLTAGE

COPY		W		C	l	e	v	e	l	a	n	d	L						
SPACE	3.4	8.5	8	8.7	4.1	6.9	7.8	7.8	4.1	8.5	7.8	5.3	3.4	77.3					
COPY		1	6	0	0		S	T		1	7	0	0	L					
SPACE	3.4	3.2	6.1	6.2	5	13.1	5.5	4.5	13.4	2.8	6.1	6.2	5	3.4	77.3				
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 Land	COLUMN SIZE	AVERAGE LENGTH			



NO. OF LIGHT FIXTURES	FIXTURE SPACING	PHOTOMETRIC CURVE	WATT	VOLTAGE

COPY																			
SPACE																			
COPY																			
SPACE																			
COPY																			
SPACE																			
COPY																			
SPACE																			
COPY																			
SPACE																			

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

FALLER, DAVIS & ASSOCIATES, INC
 4200 W. CYPRESS ST., SUITE 500
 TAMPA, FLORIDA 33607-4168
 PATRICIA T CHRISTIE, P.E. NO.: 60049

CITY OF TAMPA		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	HILLSBOROUGH	443711-2-58-01

GUIDE SIGN WORKSHEET	
	22

SHEET NO.
22

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

STANDARD MAST ARM ASSEMBLIES DATA TABLE											Table Date 11-01-16
STRUCTURE ID NUMBERS	DESIGNATION	FIRST ARM		SECOND ARM		UF (deg)	LL (deg)	POLE			DRILLED SHAFT ID
		ARM ID	FAA (ft.)	ARM ID	SAA (ft.)			POLE ID	UAA (ft.)	UB (ft.)	
1-1	A50/S-P3/S/L	A50/S					270	P3/S/L	30.0	19.5	DS/20/5.0
1-2	A40/D-A30/D-P2/D	A40/D		A30/D		90		P2/D	22.5	19.5	DS/20/5.0

NOTES [Notes Date 11-01-16]:

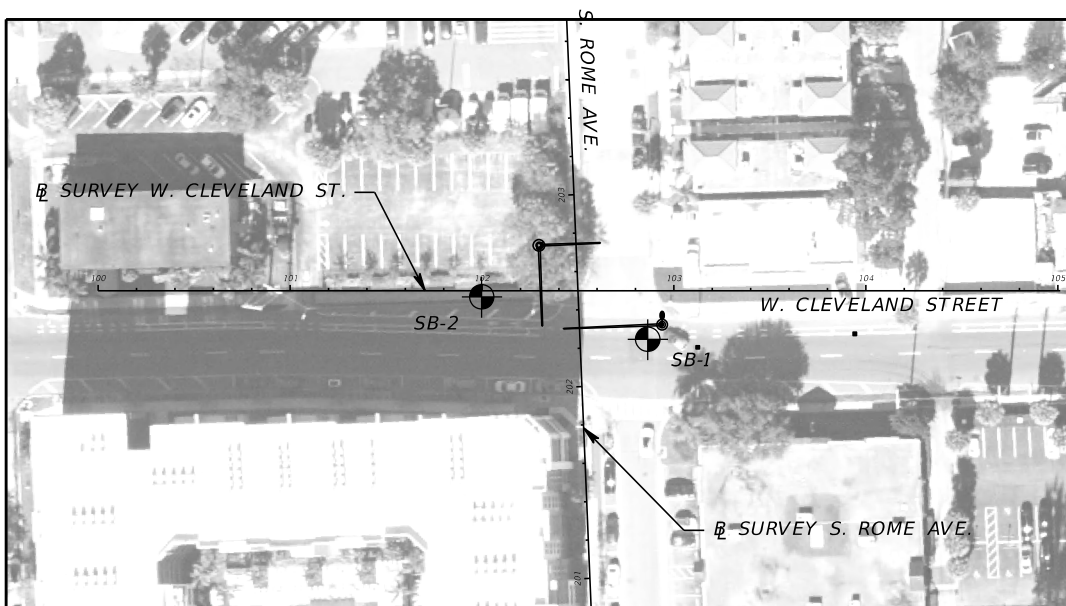
- If an entry appears in column FAA, a shorter arm is required. This is obtained by removing length from the arm tip and the arm length shortened from FA to FAA. SAA Similar.
- If an entry appears in column UAA, a shorter pole is required. This is obtained by removing length from the pole tip and the pole height shortened from UA to UAA.
- Arm mounting height UB must be between 18-22 feet.
- Pole types P2 and larger require a minimum 4.5 foot diameter drilled shaft. Pole types P5 and larger require a minimum 5.0 foot diameter drilled shaft.
- 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.
- Work with Index 649-030 and 649-031.
- Include separate 2" Schedule 40 PVC conduit with Mule Tape in signal Pole 1-1 for TECO lighting use.
- For Pole 1-1, UG = 29.0 ft.

FOUNDATION NOTES:

Assumptions and Values used in design:
 Design Water Table is 0.0 ft. below surface
 Soil Type = Cohesionless

	Pole 1-1	Pole 1-2
Soil Friction Angle:	30 deg.	30 deg.
Soil Weight (saturated):	48 pcf	48 pcf
N-Value (Blows/foot):	5	8

REVISIONS						DRAWN BY: KL 01-22	CITY OF TAMPA	SHEET TITLE: STANDARD MAST ARM ASSEMBLIES DATA TABLE	REF. DWG. NO.		
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION						
						CHECKED BY: PJH 01-22	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	PROJECT NAME: W. CLEVELAND STREET AT S. ROME AVENUE	SHEET NO. 23
						DESIGNED BY: KL 01-22	HILLSBOROUGH		443711-2-58-01		
						CHECKED BY: PJH 01-22					



BORING LOCATION PLAN

NOTES:

- BORING LOCATIONS WERE DETERMINED USING GPS COORDINATES OBTAINED BY TIERRA, INC. IN THE FIELD USING A GPS DEVICE WITH A REPORTED ACCURACY OF APPROXIMATELY +/- 10 FEET IN CONJUNCTION WITH PROJECT DESIGN FILES AND SHOULD THEREFORE BE CONSIDERED APPROXIMATE.
- BASED ON A REVIEW OF THE "POTENTIOMETRIC SURFACE ELEVATION OF THE UPPER FLORIDAN AQUIFER, WEST-CENTRAL FLORIDA" MAP PUBLISHED BY THE USGS, THE POTENTIOMETRIC SURFACE ELEVATION OF THE UPPER FLORIDAN AQUIFER IN THE PROJECT VICINITY IS REPORTED UP TO APPROXIMATELY +10 FEET, NGVD 29. ARTESIAN FLOW CONDITIONS WERE NOT ENCOUNTERED DURING OUR FIELD EXPLORATION; HOWEVER, THE CONTRACTORS TOOLS AND CONSTRUCTION METHODS SHOULD ADDRESS AND HANDLE A POTENTIOMETRIC LEVEL UP TO +10 FEET, NGVD 29.
- TEMPORARY CASING METHODS FOR SHAFT INSTALLATION BEYOND WHAT IS REQUIRED IN THE FDOT SPECIFICATIONS MAY BE REQUIRED IN ORDER TO PREVENT THE COLLAPSE/SLOUGHING OF THE SANDY SOILS AND/OR GROUNDWATER INTRUSION DURING SHAFT EXCAVATION.
- DUE TO LOOSE/SOFT SOILS AND WEATHERED LIMESTONE, THE CONTRACTOR SHALL ANTICIPATE THAT CONCRETE VOLUME OVERRUNS MAY OCCUR DURING THE SHAFT INSTALLATION PROCESS. WEATHERED LIMESTONE IS POROUS AND DIFFICULT TO DEWATER AND MAY REQUIRE SPECIALIZED EQUIPMENT.
- WEATHERED LIMESTONE WAS ENCOUNTERED WITHIN THE BORINGS. THIS MATERIAL IS ROCK. EXCAVATIONS INTO AND/OR THROUGH LIMESTONE WILL BE DIFFICULT AND WILL REQUIRE NON CONVENTIONAL CONSTRUCTION TECHNIQUES AND SPECIALIZED DRILLING EQUIPMENT. LIMESTONE IS POROUS AND WILL BE DIFFICULT TO DEWATER.

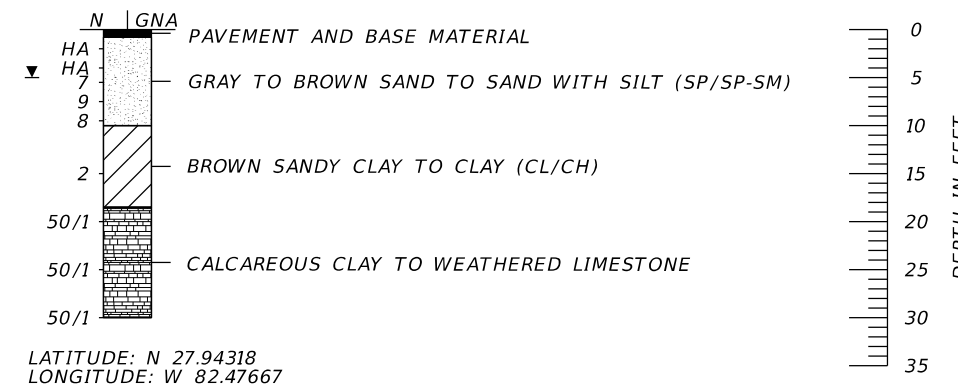
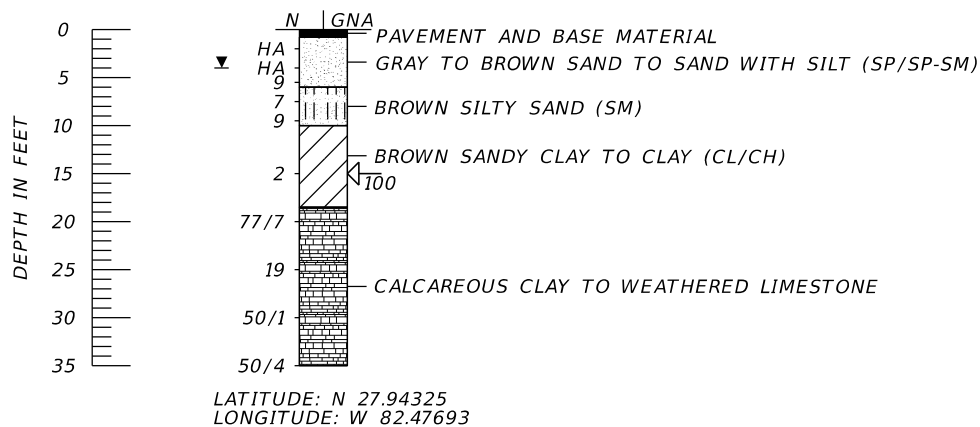
LEGEND

- GRAY TO BROWN SAND TO SAND WITH SILT (SP/SP-SM)
- BROWN SILTY SAND (SM)
- BROWN SANDY CLAY TO CLAY (CL/CH)
- CALCAREOUS CLAY TO WEATHERED LIMESTONE
- SP UNIFIED SOIL CLASSIFICATION SYSTEM (ASTM D 2487) GROUP SYMBOL AS DETERMINED BY VISUAL REVIEW.
- 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
- APPROXIMATE SPT BORING LOCATION
- GROUNDWATER LEVEL ENCOUNTERED DURING FIELD EXPLORATIONS
- LOSS OF CIRCULATION OF DRILLING FLUID (%)
- CLEVELAND BASELINE SURVEY OF WEST CLEVELAND ST.

RECOMMENDED SOIL PARAMETERS							
BORING NUMBER	DEPTH (FT)	N	SOIL CLASSIFICATION	SOIL UNIT WEIGHT (PCF)		SOIL ANGLE OF FRICTION (DEGREES)	COHESION/ ULTIMATE SHEAR STRENGTH (PSF)
				γ SAT	γ SUB		
SB-2	0 TO 10	HA TO 9	SP/SP-SM/SM	112	50.0	30	0
	10 TO 18.5	2	CL/CH	105	43.0	0	300
	18.5 TO 23.5	77/7	LIMESTONE	135	73.0	0	15000*
	23.5 TO 28.5	19	LIMESTONE	115	53.0	35	0*
	28.5 TO 35	50/4 TO 50/1	LIMESTONE	135	73.0	0	15000*
SB-1	0 TO 10	HA TO 9	SP/SP-SM/SM	112	50.0	30	0
	10 TO 18.5	2	CL/CH	105	43.0	0	300
	18.5 TO 30	50/1	LIMESTONE	135	73.0	0	15000*
	*ULTIMATE SHEAR STRENGTH						

BOR # SB-2
 STA. 102+00
 REF. CLEVELAND
 OFF. 3' RT.
 DATE 10/15/2021
 DRILLER A. JACKSON
 HAMMER AUTOMATIC
 RIG D-25

BOR # SB-1
 STA. 102+86
 REF. CLEVELAND
 OFF. 25' RT.
 DATE 10/15/2021
 DRILLER A. JACKSON
 HAMMER AUTOMATIC
 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	15 to 30	12 to 24
HARD	GREATER THAN 30	GREATER THAN 24

REVISIONS				KEVIN H. SCOTT, P.E. P.E. LICENSE NUMBER 65514 TIERRA, INC. 7351 TEMPLE TERRACE HIGHWAY TAMPA, FLORIDA 33637	CITY OF TAMPA			SHEET NO. 24
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					HILLSBOROUGH	443711-2-58-01	REPORT OF CORE BORINGS	

TABULATION OF QUANTITIES

PAY ITEM NO.	DESCRIPTION	UNIT	SHEET NUMBERS												TOTAL THIS SHEET		GRAND TOTAL	
			18		19		20								PLAN	FINAL	PLAN	FINAL
			PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL				
630-2-11	CONDUIT (F&I) (OPEN TRENCH)	LF			275												275	275
630-2-12	CONDUIT (F&I) (DIRECTIONAL BORE)	LF			185												185	185
632-7-1	SIGNAL CABLE (NEW OR RECONSTRUCTED INTERSECTION) (F&I)	PI			1												1	1
633-3-15	FIBER OPTIC CONNECTION HARDWARE (F&I) (PRETERMINATED PATCH PANEL)	EA			1												1	1
635-2-11	PULL AND SPLICE BOX (F&I) (13"X24" COVER SIZE)	EA			11												11	
	PULL AND SPLICE BOX (F&I) (17"X30" COVER SIZE)	EA			2												2	13
639-1-122	ELECTRICAL POWER SERVICE (F&I) (UNDERGROUND, METER PURCHASED BY CONTRACTOR)	AS			1												1	1
639-2-1	ELECTRICAL SERVICE WIRE (F&I)	LF			105												105	105
639-3-11	ELECTRICAL SERVICE DISCONNECT (F&I) (POLE MOUNT)	EA			1												1	1
641-2-12	PRESTRESSED CONCRETE POLE (F&I) (TYPE P-II SERVICE POLE)	EA			2												2	2
646-1-11	ALUMINUM SIGNALS POLE (F&I) (PEDESTAL)	EA			8												8	8
649-21-4	STEEL MAST ARM ASSEMBLY (F&I) (DOUBLE ARM) (40'-30')	EA			1												1	1
649-21-6	STEEL MAST ARM ASSEMBLY (F&I) (SINGLE ARM) (50')	EA			1												1	1
650-1-14	TRAFFIC SIGNAL (F&I ALUMINUM) (3-SECTION, 1 WAY)	AS						8									8	8
653-1-11	PEDESTRIAN SIGNAL (F&I) (LED COUNTDOWN) (1 WAY)	AS						8									8	8
660-4-11	VEHICLE DETECTION SYSTEM - VIDEO (F&I) (CABINET EQUIPMENT)	EA			1												1	1
660-4-12	VEHICLE DETECTION SYSTEM - VIDEO (F&I) (ABOVE GROUND EQUIPMENT)	EA			1												1	1
665-1-12	PEDESTRIAN DETECTOR (F&I) (ACCESSIBLE)	EA			8												8	8
670-5-110	TRAFFIC CONTROLLER ASSEMBLY (F&I) (NEMA)	AS			1												1	1
684-1-1	MANAGED FIELD ETHERNET SWITCH (F&I)	EA			1												1	1
685-1-13	UNINTERRUPTIBLE POWER SUPPLY (F&I) (LINE INTERACTIVE WITH CABINET)	EA			1												1	1
700-3-201	SIGN PANEL (F&I) (OVERHEAD MOUNT) (UP TO 12 SF)	EA						2									2	2
700-5-22	INTERNALLY ILLUMINATED SIGN (F&I) (12 - 18 SF)	EA						3									3	3
715-5-32	LUMINAIRE & BRACKET ARM (GALV STEEL) (F&I) (NEW ARM ON NEW POLE)	EA			1												1	1
700-1-11	SINGLE POST SIGN (F&I) (GROUND MOUNT) (UP TO 12 SF)	AS	2														2	2
700-1-12	SINGLE POST SIGN (F&I) (GROUND MOUNT) (12 - 20 SF)	AS	3														3	3
700-1-60	SINGLE POST SIGN (REMOVE)	AS	5														5	5
700-13-15	RETROREFLECTIVE SIGN STRIP (F&I) (5')	EA	2														2	2
704-1-1	TUBULAR MARKER , DURABLE, 36" WHITE POST	EA	8														8	8
706-1-3	RAISED PAVEMENT MARKER (TYPE B) (W/R)	EA	22														22	
	RAISED PAVEMENT MARKER (TYPE B) (Y/Y)	EA	12														12	34
710-90	PAINTED PAVEMENT MARKINGS - FINAL SURFACE	LS	1														1	1
*	PAINTED PAVEMENT MARKINGS (WHITE) (SOLID) (12")	LF	224														224	224
*	PAINTED PAVEMENT MARKINGS (WHITE) (SOLID) (18")	LF	45														45	45
*	PAINTED PAVEMENT MARKINGS (WHITE) (SOLID) (24")	LF	54														54	54
*	PAINTED PAVEMENT MARKINGS (WHITE) (ARROWS) (THRU-LEFT)	EA	1														1	
*	PAINTED PAVEMENT MARKINGS (WHITE) (ARROWS) (THRU-RIGHT)	EA	1														1	2
*	PAINTED PAVEMENT MARKINGS (YELLOW) (SOLID) (18")	LF	10														10	10
*	PAINTED PAVEMENT MARKINGS (WHITE) (SOLID) (6")	GM	0.060														0.060	0.060
*	PAINTED PAVEMENT MARKINGS (YELLOW) (SOLID) (6")	GM	0.082														0.082	0.082
711-11-123	THERMOPLASTIC (STD) (WHITE) (SOLID) (12")	LF	224														224	224
711-11-124	THERMOPLASTIC (STD) (WHITE) (SOLID) (18")	LF	45														45	45
711-11-125	THERMOPLASTIC (STD) (WHITE) (SOLID) (24")	LF	54														54	54
711-11-170	THERMOPLASTIC (STD) (WHITE) (ARROWS) (THRU-LEFT)	EA	1														1	
	THERMOPLASTIC (STD) (WHITE) (ARROWS) (THRU-RIGHT)	EA	1														1	2
711-11-224	THERMOPLASTIC (STD) (YELLOW) (SOLID) (18")	LF	10														10	10
711-14-125	THERMOPLASTIC (PREFORMED) (WHITE) (SOLID) (24" FOR CROSSWALKS)	LF	140														140	140
711-14-160	THERMOPLASTIC (PREFORMED) (WHITE) (MSG) (BIKE SYMBOL)	EA	1														1	1
711-14-170	THERMOPLASTIC (PREFORMED) (WHITE) (ARROWS) (BIKE ARROW)	EA	1														1	1
711-16-101	THERMOPLASTIC (STD-OTHER SURFACES) (WHITE) (SOLID) (6")	GM	0.060														0.060	0.060
711-16-201	THERMOPLASTIC (STD-OTHER SURFACES) (YELLOW) (SOLID) (6")	GM	0.082														0.082	0.082
711-17-1	THERMOPLASTIC (REMOVE EXISTING THERMOPLASTIC PAVEMENT MARKINGS - SURFACE TO REMAIN)	SF	18														18	18

* THESE QUANTITIES ARE PAID FOR UNDER PAINTED PAVEMENT MARKINGS (FINAL SURFACE) LUMP SUM - ITEM NO. 710-90. THE QUANTITIES SHOWN ARE FOR ONE APPLICATION; SEE SPECIFICATION 710 FOR THE NUMBER OF APPLICATIONS REQUIRED.

REVISIONS				FALLER, DAVIS & ASSOCIATES, INC 4200 W. CYPRESS ST., SUITE 500 TAMPA, FLORIDA 33607-4168 PATRICIA T CHRISTIE, P.E. NO.: 60049	CITY OF TAMPA			TABULATION OF QUANTITIES	SHEET NO. 25
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
						HILLSBOROUGH	443711-2-58-01		

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

SUMMARY OF LUMP SUM ITEMS					
PAY ITEM NO.	PAY ITEM DESCRIPTION	QUANTITY		DESIGN NOTES	CONSTRUCTION REMARKS
		P	F		
0101 1	MOBILIZATION	1			

SUMMARY OF TEMPORARY TRAFFIC CONTROL PLAN ITEMS												
PAY ITEM NO.	PAY ITEM DESCRIPTION	UNIT	PHASE I			PHASE II			TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS
			DURATION	QUANTITY	TOTAL	DURATION	QUANTITY	TOTAL	P	F		
			DAYS	P	P	DAYS	P	P				
0102 1	MAINTENANCE OF TRAFFIC	LS							1			
0102 14	TRAFFIC CONTROL OFFICER	HR	8		8	16		16	24		MAST ARM INSTALLATION	
0102 60	WORK ZONE SIGN	ED	40	32	1280	40	38	1520	2800			
0102 74 1	CHANNELIZING DEVICE- TYPES I, II, DI, VP, DRUM, OR LCD	ED	40	28	1120	40	62	2480	3600			
0102 76	ARROW BOARD / ADVANCE WARNING ARROW PANEL	ED	40	1	40	40	1	40	80			
0102 99	PORTABLE CHANGEABLE MESSAGE SIGN, TEMPORARY	ED	54	2	108	40	2	80	188			
0102 115	TYPE III BARRICADE	ED	40	2	80	40	2	80	160			

SUMMARY OF TEMPORARY TRAFFIC CONTROL PLAN ITEMS											
PAY ITEM NO.	PAY ITEM DESCRIPTION	UNIT	PHASE III			TOTAL		GRAND TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS
			DURATION	QUANTITY	TOTAL	P	F	P	F		
			DAYS	P	P						
0102 1	MAINTENANCE OF TRAFFIC	LS						1		110 DAYS	
0102 14	TRAFFIC CONTROL OFFICER	HR						24			
0102 60	WORK ZONE SIGN	ED	30	16	480	480		3280			
0102 74 1	CHANNELIZING DEVICE- TYPES I, II, DI, VP, DRUM, OR LCD	ED	30	25	750	750		4350			
0102 76	ARROW BOARD / ADVANCE WARNING ARROW PANEL	ED	30	1	30	30		110			
0102 99	PORTABLE CHANGEABLE MESSAGE SIGN, TEMPORARY	ED	30	2	60	60		248			
0102 115	TYPE III BARRICADE	ED	30	2	60	60		220			

REVISIONS				FALLER, DAVIS & ASSOCIATES, INC 4200 W. CYPRESS ST., SUITE 500 TAMPA, FLORIDA 33607-4168 KENNETH R. MUZYK, JR., P.E. NO.: 44076	CITY OF TAMPA			SUMMARY OF QUANTITIES	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
						HILLSBOROUGH	443711-2-58-01		

SUMMARY OF PEDESTRIAN LONGITUDINAL CHANNELIZING DEVICES								
CONST. PHASE	LOCATION STA. TO STA.	SIDE	LENGTH	DAYS	QUANTITY		DESIGN NOTES	CONSTRUCTION REMARKS
					0102	74 8		
					FD			
					P	F		
I	102+12	RT.	6	40	240			
I	102+16 TO 102+30	RT.	17	40	680			
I	102+33	RT.	6	40	240			
I	103+13	RT.	6	40	240			
II	102+03	LT.	6	40	240			
II	102+23	LT.	6	40	240			
II	102+24	RT.	6	40	240			
II	102+68	LT.	6	40	240			
II	102+82	RT.	6	40	240			
II	103+08	LT.	6	40	240			
SUB-TOTAL:					2840			
TOTAL:					2840			

SUMMARY OF EROSION AND SEDIMENT CONTROL DEVICES					
LOCATION STA. TO STA.	SIDE	INLET PROTECTION SYSTEM		DESIGN NOTES	CONSTRUCTION REMARKS
		0104 18			
		EA			
		P	F		
102+05.13	RT.	1			
102+67.36	RT.	1			
SUB-TOTAL:		2			
TOTAL:		2			

<table border="1"> <thead> <tr> <th colspan="4">REVISIONS</th> </tr> <tr> <th>DATE</th> <th>DESCRIPTION</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>				REVISIONS				DATE	DESCRIPTION	DATE	DESCRIPTION					<p>FALLER, DAVIS & ASSOCIATES, INC 4200 W. CYPRESS ST., SUITE 500 TAMPA, FLORIDA 33607-4168 KENNETH R. MUZYK, JR., P.E. NO.: 44076</p>		<p>CITY OF TAMPA</p> <table border="1"> <tr> <th>ROAD NO.</th> <th>COUNTY</th> <th>FINANCIAL PROJECT ID</th> </tr> <tr> <td> </td> <td>HILLSBOROUGH</td> <td>443711-2-58-01</td> </tr> </table>		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		HILLSBOROUGH	443711-2-58-01	<p>SUMMARY OF QUANTITIES</p>		<p>SHEET NO. SQ-2</p>
REVISIONS																												
DATE	DESCRIPTION	DATE	DESCRIPTION																									
ROAD NO.	COUNTY	FINANCIAL PROJECT ID																										
	HILLSBOROUGH	443711-2-58-01																										

SUMMARY OF MONITOR EXISTING STRUCTURES						
SITE NO.	LOCATION	STRUCTURE USAGE	INSPECTION & SETTLEMENT MONITORING		DESIGN NOTES	CONSTRUCTION REMARKS
	ADDRESS AND/OR STA.		0108 1			
			P	F		
1	1607 W. CLEVELAND ST.	COMMERICAL	X		BRIDGEWAY PROPERTY SOLUTIONS / MAST ARM INSTALLATION	
2	1702 W. CLEVELAND ST.	RESIDENTIAL	X		BLEECKER HYDE PARK APARTMENTS / MAST ARM INSTALLATION	
3	202 S. ROME AVE.	COMMERICAL	X		PROVIDENCE FAMILY OFFICES / MAST ARM INSTALLATION	
		TOTAL	1			

THIS LIST INCLUDES EXISTING STRUCTURES (AS DETERMINED BY THE DEPARTMENT) LOCATED OUTSIDE THE LIMITS SPECIFIED IN ARTICLE 108-2 OF THE FDOT SPECIFICATIONS THAT ARE REQUIRED TO BE MONITORED. THIS LIST SHOULD NOT BE CONSIDERED ALL INCLUSIVE AND DOES NOT CONTAIN EXISTING STRUCTURES TO BE MONITORED THAT ARE LOCATED WITHIN THE DISTANCES SPECIFIED IN ARTICLE 108-2.

SUMMARY OF CLEARING AND GRUBBING & REMOVAL ITEMS												
PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION	SIDE	AREA ID	UNITS	SECONDARY UNITS (IF LUMP SUM)	QUANTITY		TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS
		STA. TO STA.				AREA (AC)	P	F	P	F		
0110 1 1	CLEARING & GRUBBING	102+05.10 to 102+38.29	LT.	4962	AC	0.012			1		0.063 AC TOTAL	
		102+08.61 to 102+15.12	LT.	5780		0.003						
		102+18.11 to 102+18.50	LT.	5785		0.001						
		102+08.09 to 102+44.71	RT.	5018		0.008						
		102+08.70 to 102+19.11	LT.	4985		0.001						
		102+20.79 to 102+29.83	LT.	4997		0.004						
		102+57.01 to 103+04.12	LT.	4850		0.012						
		102+62.30 to 102+73.11	LT.	4864		0.005						
		102+64.88 to 103+06.28	RT.	5065		0.010						
		102+65.59 to 103+10.42	RT.	5142		0.003						
		102+66.98 to 102+72.12	LT.	5152		0.001						
		102+76.57 to 103+03.97	LT.	4857		0.002						
		102+80.53 to 103+10.42	RT.	5080		0.001						
0110 4 10	REMOVAL OF EXISTING CONCRETE	102+05.10 to 102+29.83	LT.	4769	SY		32.4		122		SIDEWALK AND CURB & GUTTER	
		102+13.02 to 102+44.21	RT.	4699			37.6				SIDEWALK AND CURB & GUTTER	
		102+61.91 to 103+19.11	LT.	4811			22.0				SIDEWALK AND CURB & GUTTER	
		102+64.89 to 103+10.42	RT.	4745			30.0				SIDEWALK AND CURB & GUTTER	

SUMMARY OF EARTHWORK					
PAY ITEM NO.	PAY ITEM DESCRIPTION	CY		DESIGN NOTES	CONSTRUCTION REMARKS
		P	F		
0120 1	REGULAR EXCAVATION	125.8			
0120 6	EMBANKMENT	49.6			

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DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		SQ-3
						HILLSBOROUGH	443711-2-58-01		

SUMMARY OF PAVEMENT												
PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION		SIDE	AREA ID	UNIT	QUANTITY		TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS
		STA. TO STA.					P	F	P	F		
		285715	Optional Base, Base Group 15				102+57.01 to 103+04.12		LT.	3826		
0327 70 6	Milling Exist Asph Pavt, 1 1/2" Avg Depth	102+03.05 to 103+10.42		LT./RT.	4800	SY	516.4		516			
0334 1 13	Superpave Asphaltic Conc, Traffic C	102+57.01 to 103+04.12		LT.	4849	TN	6.82		6.8			
0337 7 83	Asphalt Concrete Friction Course, Traffic C, FC-12.5, PG 76-22	102+03.05 to 103+10.42		LT./RT.	4873	TN	46.70		46.7			

SUMMARY OF UTILITY ADJUSTMENTS											
PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION		SIDE	UNIT	QUANTITY		TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS
		STATION				P	F	P	F		
		0425 5	MANHOLE, ADJUST			102+51.45		RT.	EA		
0425 5 1	MANHOLE, ADJUST, UTILITIES	102+60.87		LT.	EA	1		1			

SUMMARY OF CURB & GUTTER AND/OR TRAFFIC SEPARATORS														
PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION		SIDE	UNIT	QUANTITY				TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS	
		STA. TO STA.				GROSS LENGTH	DEDUCTIONS		NET LENGTH		P			F
							TYPE	LENGTH	P	F				
0520 2 4	Concrete Curb, Type D	102+05.10 to 102+29.89		LT.	LF	37.6			37.6	635		DROP CURB		
		102+05.10 to 102+29.89		LT.		37.6			37.6					
		102+05.10 to 102+38.29		LT.		104.5			104.5					
		102+10.15 to 102+44.20		RT.		45.0			45.0					
		102+08.11 to 102+44.20		RT.		47.1			47.1					
		102+10.15 to 102+44.07		RT.		86.9			86.9					
		102+61.90 to 103+03.96		LT.		62.8			62.8					
		102+64.88 to 103+06.28		RT.		102.8			102.8					
		102+64.89 to 103+06.28		RT.		55.5			55.5					
		102+64.89 to 103+06.28		RT.		55.5			55.5					

REVISIONS				FALLER, DAVIS & ASSOCIATES, INC 4200 W. CYPRESS ST., SUITE 500 TAMPA, FLORIDA 33607-4168 KENNETH R. MUZYK, JR., P.E. NO.: 44076	CITY OF TAMPA			SUMMARY OF QUANTITIES	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
						HILLSBOROUGH	443711-2-58-01		

