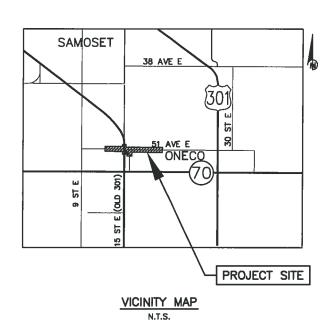
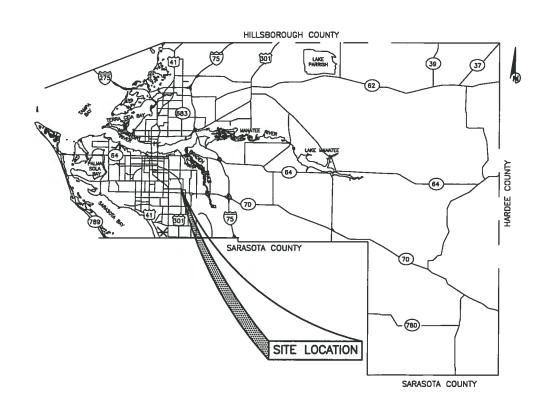


MANATEE COUNTY, FLORIDA 51st AVE. E. @ 15th ST. E. AND PINE ST. RELOCATION INTERSECTION IMPROVEMENTS 323-6029960

December 2012





100% PLANS

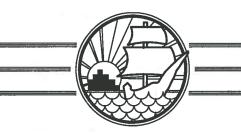
NO	INDEX OF SHEETS
1A	COVER SHEET
1-11	TOPOGRAPHIC SURVEY SHEETS
12	QUANTITY SHEET
13-14	GENERAL NOTES
15	LIMITS OF CONSTRUCTION
16-19	DEMOLITION AND EROSION CONTROL
20-21	TYPICAL SECTIONS
22-28	PLAN AND PROFILE SHEETS
29-32	UTILITY ADJUSTMENT SHEETS
33-41	CROSS SECTIONS
42-46	GENERAL DETAILS
47-49	PEDESTRIAN BRIDGE FOUNDATION DETAIL
50	BEST MANAGEMENT PRACTICES
S-1-S-9	SIGNING AND PAVEMENT MARKING PLANS
T-1-T-8	SIGNALIZATION PLANS

15th ST EAST @ 51st AVE EAST

DATE							
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REVISION DESCRIPTION							
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PRO	JECT	#		2	32-	6029	960
SUR	VEY	ŧ		5303			
SEC	./TWI	v./RG	E		7/3	55/18	BE
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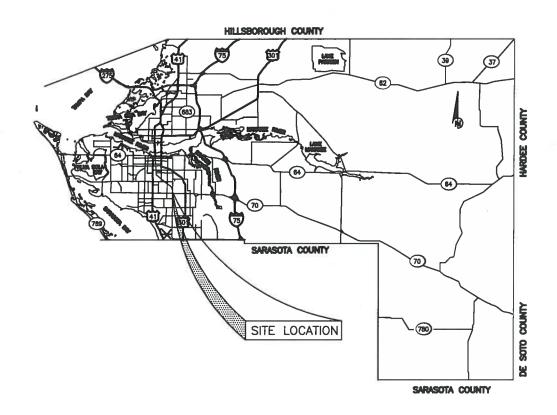
- . LEFT TURN LANES BOTH DIRECTIONS ON 51ST AVENUE EAST.

- RELOCATION OF 15TH STREET CT. EAST, PINE STREET; FROM PRESENT LOCATION APPROXIMATELY 200' EAST TO THE NEW LOCATION.
 THE CONSTRUCTION OF A RETENTION POND.
 THE CONSTRUCTION OF A PEDESTRIAN BRIDGE.
 THE CONSTRUCTION OF A SIDEWALK FROM 301 BLVD/15TH STREET EAST TO EXISTING SIDEWALK © 18TH STREET CT. EAST.



TOPOGRAPHIC SURVEY US 301/15th St. E. MANATEE COUNTY, FLORIDA

APRIL 2009



IRON ROD IRON ROD IRON ROD IRON RPPE O SANITARY SEWER MANHOLE O SHOTARY SEWER MANHOLE O SHOTARY SEWER MANHOLE O STORM SEWER MANHOLE STORM SEWER MANHOLE STORM MLET O DRAMAGE PIPE ORATE INLET O TERED DID SECTION R RADILS R/W RIGHT OF WAY COND CONCRETE ASPHALT INV INVERT INV INVERT INV INVERT O TELEPHONE UTILITY PINE TREE O TELEPHONE UTILITY O SELECTRIC UTILITY O ELECTRIC UTILITY O ELECTRIC UTILITY O THAFFIC SIGNAL MAST ARM O

GENERAL NOTES

- THESE PLANS DO NOT REFLECT A TRUE BOUNDARY OR RIGHT-OF-WAY SURVEY. THE LOCATION OF THE STREET RIGHT-OF-WAY
 LINES SHOWN ARE APPROXIMATE AND HAVE BEEN BASED ON INFORMATION CONTAINED IN THE SUBDIVISION PLATS, RIGHT-OF-WAY
 MAPS ON RECORD IN MANATEE COUNTY AND TOPOGRAPHIC DATA COLLECTED ALONG EACH OF THE RIGHTS-OF-WAY.
 CONSEQUENTLY, THE RIGHT-OF-WAY LINES SHOWN ARE NOT INTENDED TO INDICATE THE EXACT BOUNDARIES.
- 2. THIS SURVEY IS SUBJECT TO PERTINENT EASEMENTS, RIGHTS-OF-WAY AND RESTRICTIONS OF RECORD, IF ANY
- 3. TITLE WORK WAS NOT PROVIDED FOR THIS SURVEY.
- 4. THE BEARINGS INDICATED HEREIN ARE A PROJECTION OF THE FLORIDA STATE PLANE COORDINATE SYSTEM (WEST ZONE NAD 1983/1990).
- 5. THE ELEVATIONS SHOWN HEREIN HAVE BEEN BASED ON THE FOLLOWING BENCHMARKS CONTAINED IN MANATEE COUNTY BENCH RUN # 124: 124-29-01: X-CUT AT THE TOP CENTER ON THE EAST SIDE OF A CONCRETE GRATE INLET, LOCATED 45' +/- SOUTH OF THE CENTERLINE OF THE ENTRANCE TO ONECO SQUARE PLAZA, 510' +/- SOUTH OF THE CENTERLINE INTERSECTION OF 51ST AVE EAST AND 15TH ST. EAST (301 BLVD.), AND 36' +/- WEST OF THE CENTERLINE OF 15TH ST. EAST (301 BLVD.). ELEV. = 34.226' (N.G.V.D. 1922 DATUM)
- 6. THIS SURVEY DRAWING WAS PREPARED FOR THE EXCLUSIVE USE OF THE PARTY OR PARTIES CERTIFIED TO BELOW FOR THE EXPRESS PURPOSE STATED HEREON AND/OR CONTAINED IN THE CONTRACT BETWEEN HYAIT SURVEY SERVICES, INC. AND THE CLIENT FOR THIS PROJECT. COPYING, DISTRIBUTING AND/OR USING THIS DRAWING, IN WHOLE OR IN PART FOR ANY PURPOSE OTHER THAN ORIGINALLY INTENDED WITHOUT WRITTEN CONSENT FROM HYAIT SURVEY SERVICES, INC. IS STRICTLY PROHIBITED AND RENDERS THE SURVEYOR'S CERTIFICATION, SIGNATURE AND SEAL NULL AND VOID. ANY QUESTIONS CONCERNING THE CONTENT OR PURPOSE OF THIS DRAWING SHOULD BE DIRECTED TO HYAIT SURVEY SERVICES, INC.
- 7. THE UTILITIES LISTED BELOW WERE PROVIDED FOR THIS SITE BY "SUNSHINE STATE ONE CALL" ON FEBRUARY 25, 2009: TECO/PEOPLES GAS COMPANY CONTACT: CHRIS COLEMAN 941 915 8915 VERIZON FLORIDA INC. CONTACT: DARRELL DAWSON 813 753 8171 FLORIDA POWER & LIGHT

FLORIDA POWER & LIGHT BRIGHT HOUSE NETWORKS

MANATEE COUNTY UTILITY OPERATIONS CONTACT: JOHN GARDNER

MANATEE COUNTY TRANSPORTATION DEPARTMENT

SHEET INDEX

SHEET 1 COVER SHEET

SHEET 2 PLAN INDEX/SURVEY CONTROL

SHEETS 3-11 PLAN SHEETS

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THESE PLANS DO NOT REFLECT A TRUE BOUNDARY OR RIGHT-OF-WAY SURVEY. THE LOCATION OF THE STREET RIGHT-OF-WAY LINES SHOWN ARE APPROXIMATE AND HAVE BEEN BASED ON INFORMATION CONTAINED IN THE SUBDIVISION PLATS, RIGHT-OF-WAY MAPS ON RECORD IN MANATE COUNTY AND TOPOGRAPHIC DATA COLLECTED ALONG EACH OF THE RIGHTS-OF-WAY, CONSEQUENTLY, THE RIGHT-OF-WAY LINES SHOWN ARE NOT INTENDED TO INDICATE THE EXACT BOUNDARIES.

PUBLIC WURKS DEFT ENGINEERING DIVISION	יי ו
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LORID	L
4422-B 66th Street West, Bradenton, FL 34210	

REVISED 15TH ST. RIGHT-OF-WAY LINE CBW 7/30/10 ADDED SR 70 SOUTH RIGHT-OF-WAY CBW 1/13/11 LB N

REVISION DESCRIPTION

Hyatt Survey Services, Inc.

LB No.: 7203 Geographic Data Specialists

11007 8th Avenue East Bradenton, Florida 34212

Phone: (941) 748-4693 Fax: (941) 744-1643

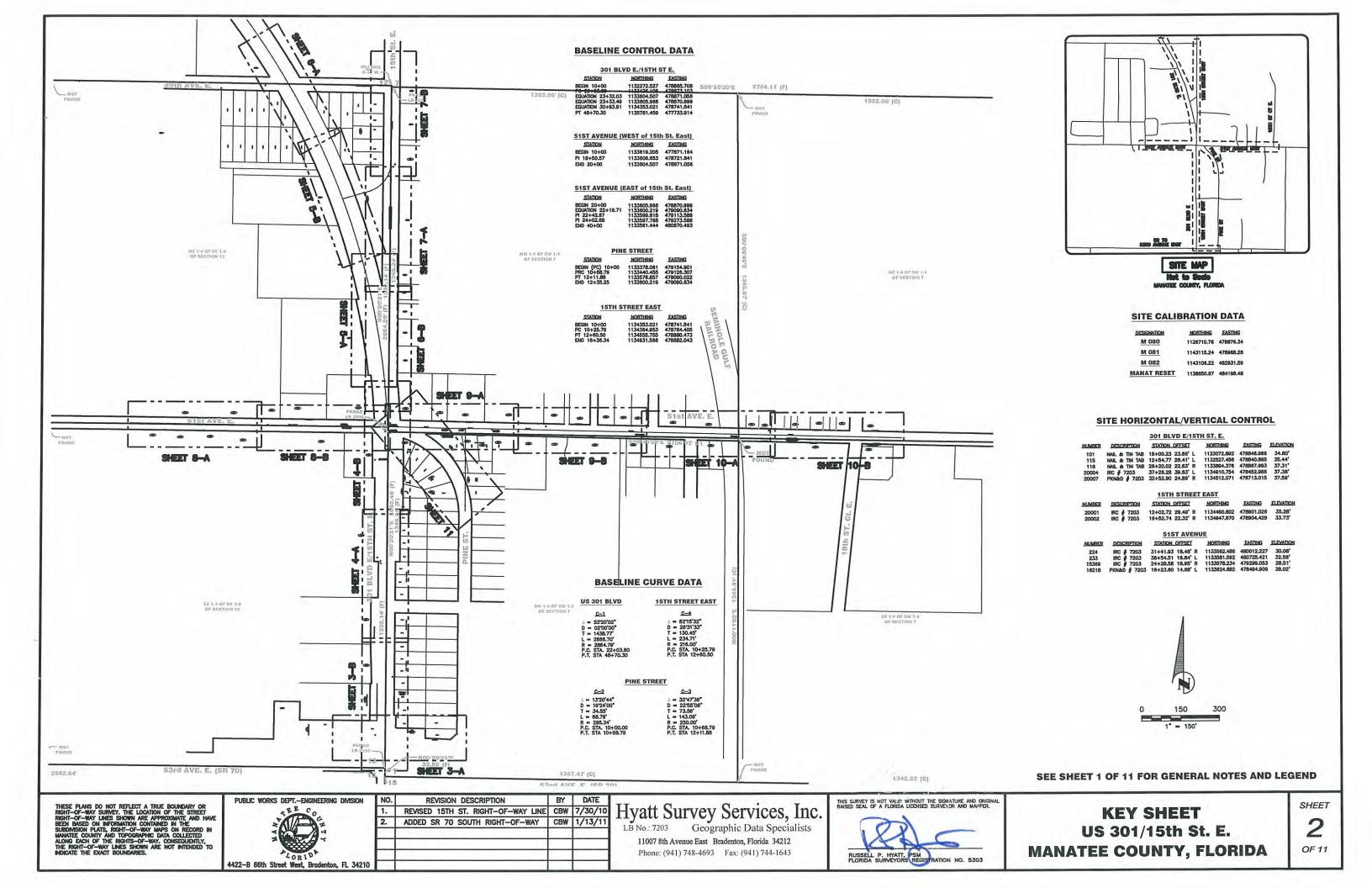
THIS SURVEY IS HOT VALID WITHOUT THE SIGNATURE AND ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER.

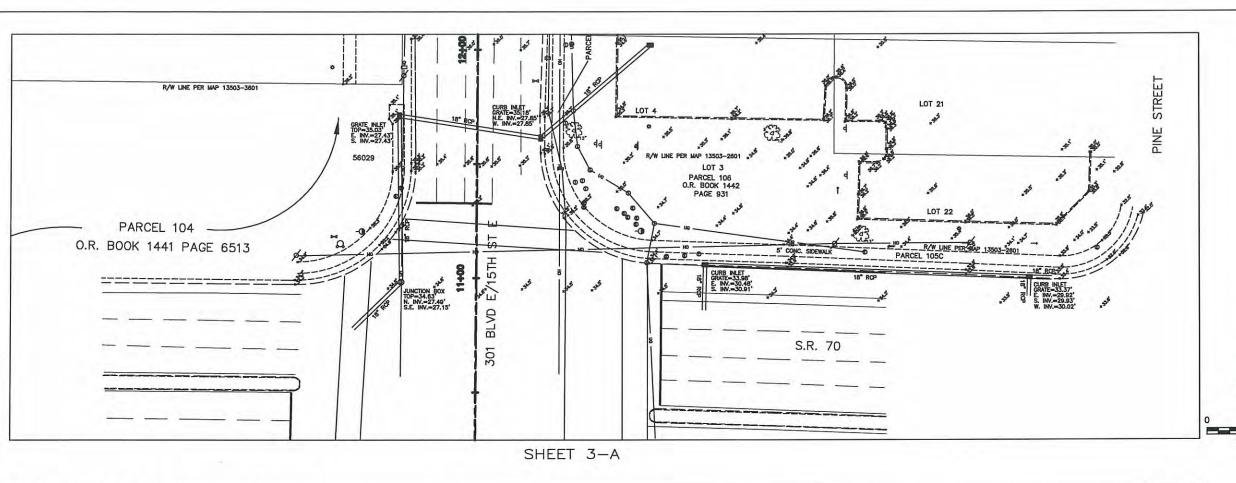


COVER SHEET
US 301/15th St. E.
MANATEE COUNTY, FLORIDA

SHEET

1 0F 11







11+00 EAST SR 70 (53RD AVE)



11+00 NORTH



11+00 WEST SR 70 (53RD AVE)



12+00 NORTH



14+00 NORTH

10-100 13+00 15-100 10-	8°PVC
301 BLVD E/15TH ST E 301 BLVD E/15TH ST E 301 BLVD E/15TH ST E	15+00
PLATITION RAW LINE PLATITION RAW LINE SPACE RIGHT OF WAY EASEMENT PARCEL 105B RIGHT OF WAY EASEMENT R	LINE SDEWALK 5 CO

REVISED 15TH ST. RIGHT-OF-WAY LINE CBW 7/30/10

ADDED SR 70 SOUTH RIGHT-OF-WAY CBW 1/13/11

REVISION DESCRIPTION

SHEET 3-B

BY DATE

Hyatt Survey Services, Inc. LB No.: 7203 Geographic Data Specialists

11007 8th Avenue East Bradenton, Florida 34212 Phone: (941) 748-4693 Fax: (941) 744-1643 THIS SURVEY IS NOT VALID WITHOUT THE SIGNATURE AND ORIGINA RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER.



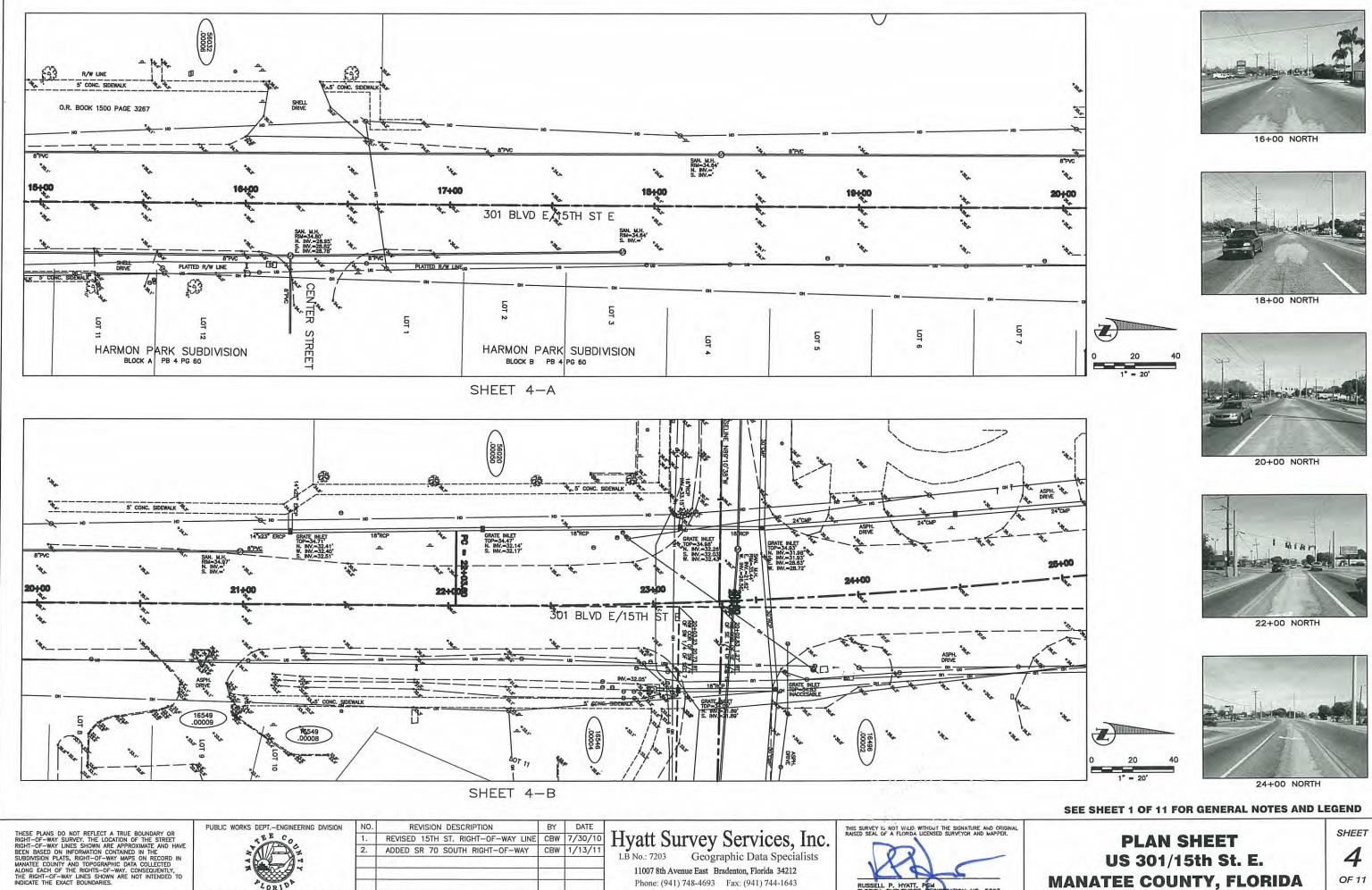
SEE SHEET 1 OF 11 FOR GENERAL NOTES AND LEGEND

PLAN SHEET US 301/15th St. E. MANATEE COUNTY, FLORIDA SHEET

OF 11

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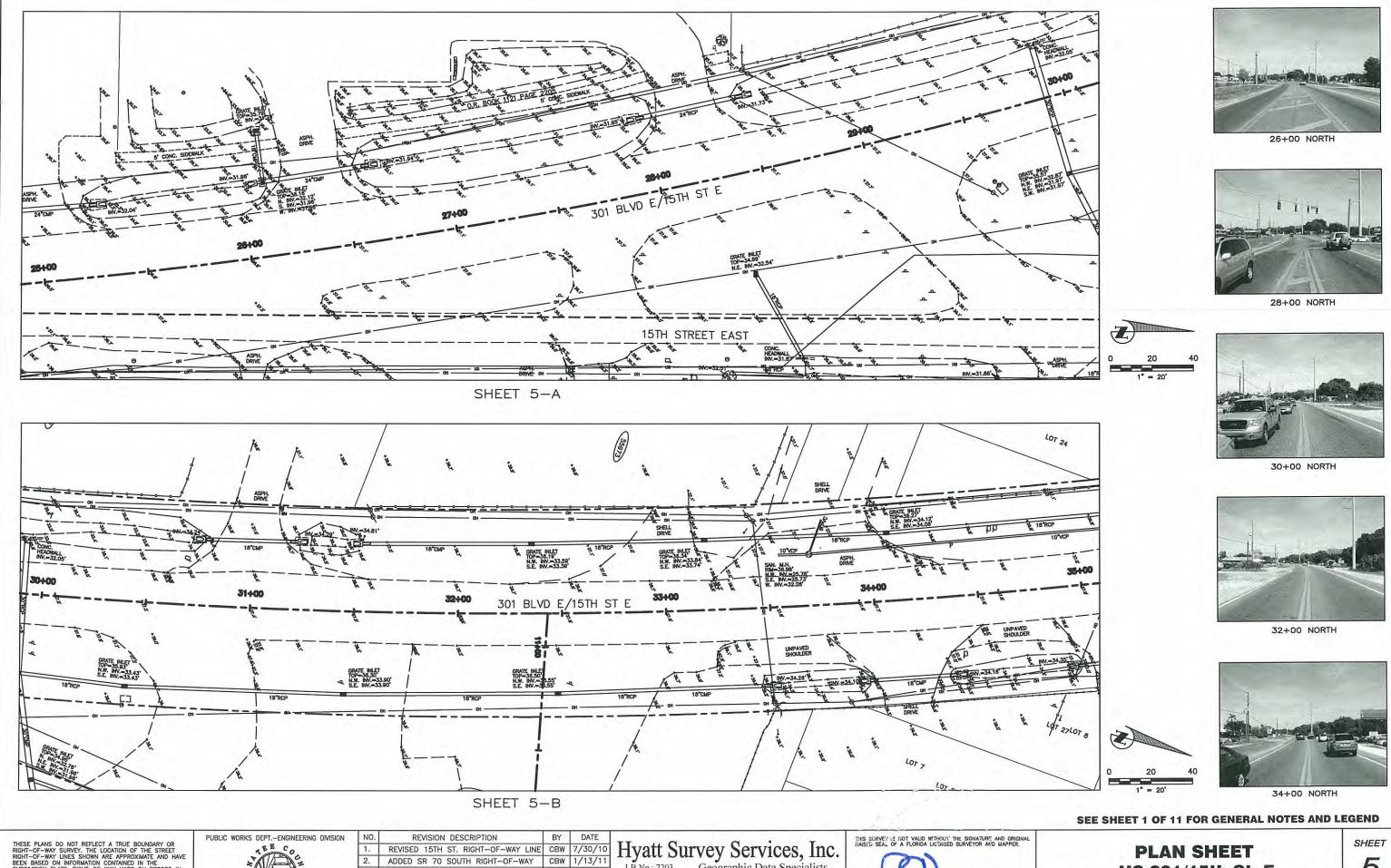
PUBLIC WORKS DEPT.-ENGINEERING DIVISION 4422-B 66th Street West, Bradenton, FL 34210



Phone: (941) 748-4693 Fax: (941) 744-1643

4422-B 66th Street West, Bradenton, FL 34210

MANATEE COUNTY, FLORIDA OF 11

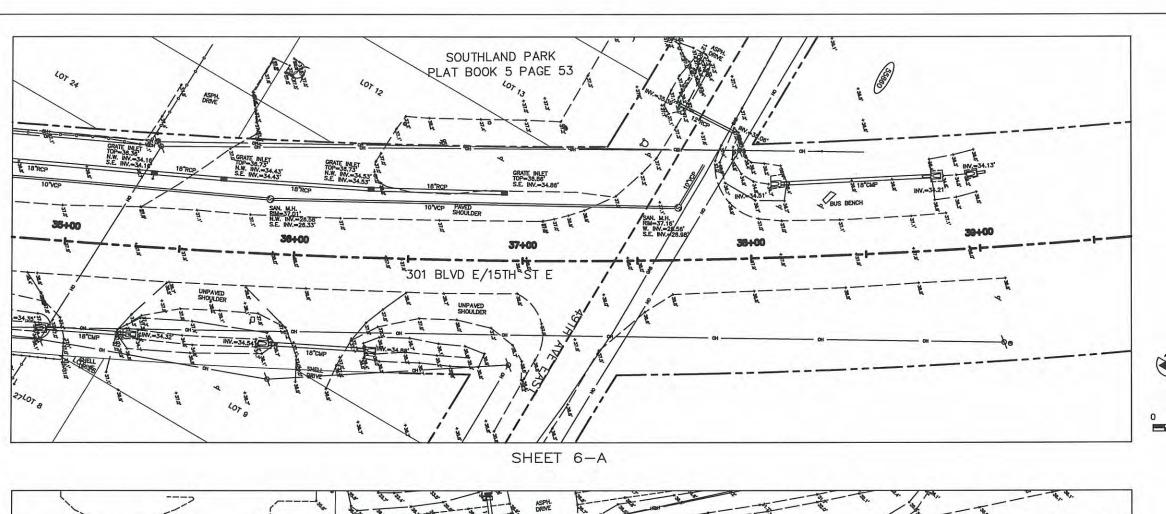


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US 301/15th St. E. MANATEE COUNTY, FLORIDA 5





36+00 NORTH



37+00 NORTH



38+00 NORTH



26+00 NORTH 15th St. E.



28+00 NORTH 15th St. E.

SEE SHEET 1 OF 11 FOR GENERAL NOTES AND LEGEND

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2-B	66th	Stre	et W	est.	Brade	nton.	FI	34210	

BY DATE REVISION DESCRIPTION REVISED 15TH ST. RIGHT-OF-WAY LINE CBW 7/30/10 ADDED SR 70 SOUTH RIGHT-OF-WAY CBW 1/13/11

SHEET 6-B

Hyatt Survey Services, Inc. LB No.: 7203 Geographic Data Specialists

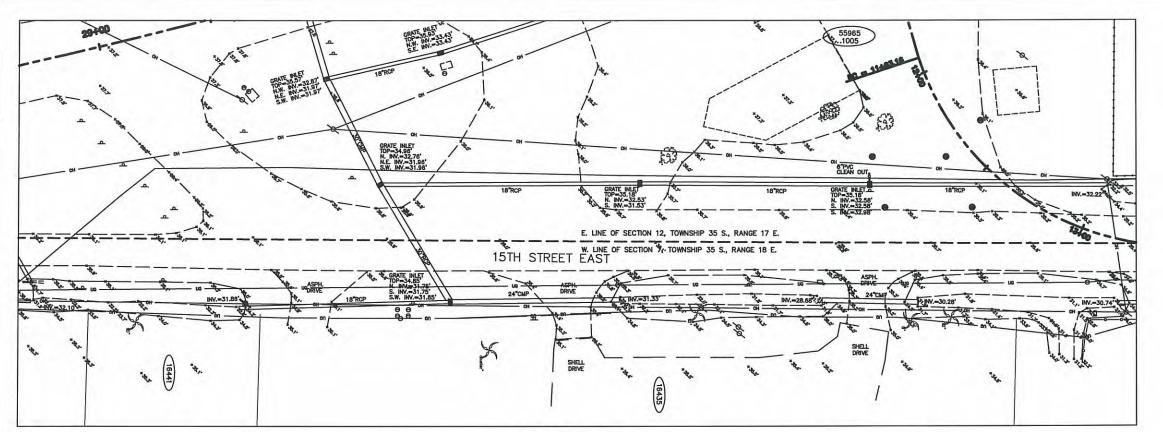
11007 8th Avenue East Bradenton, Florida 34212 Phone: (941) 748-4693 Fax: (941) 744-1643

RUSSELL P. HYATT, PSM FLORIDA SURVEYORS REDISTRATION NO. 5303

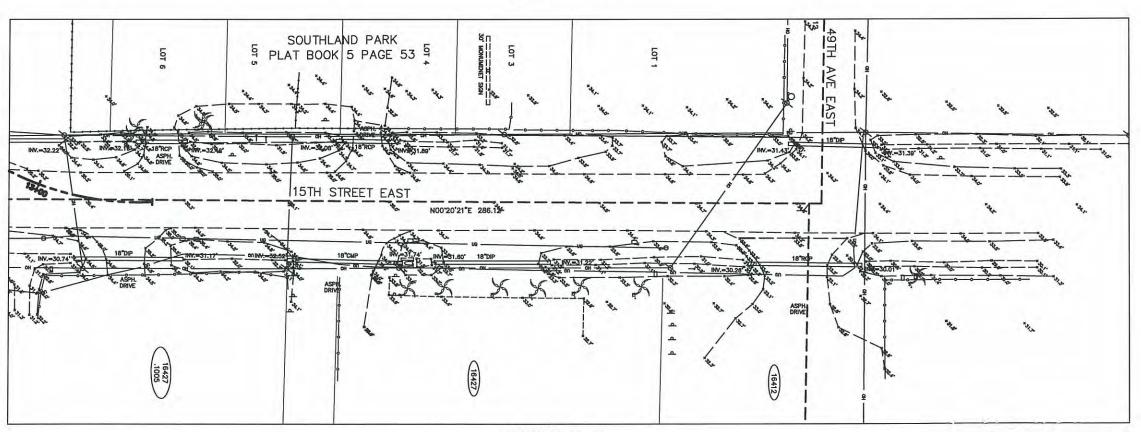
15TH STREET EAST

PLAN SHEET US 301/15th St. E. **MANATEE COUNTY, FLORIDA** SHEET

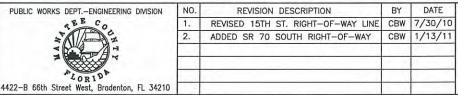
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SHEET 7-A



SHEET 7-B



Hyatt Survey Services, Inc.

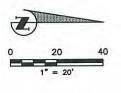
LB No.: 7203 Geographic Data Specialists

11007 8th Avenue East Bradenton, Florida 34212 Phone: (941) 748-4693 Fax: (941) 744-1643





12+00 NORTH





14+00 NORTH



16+00 NORTH

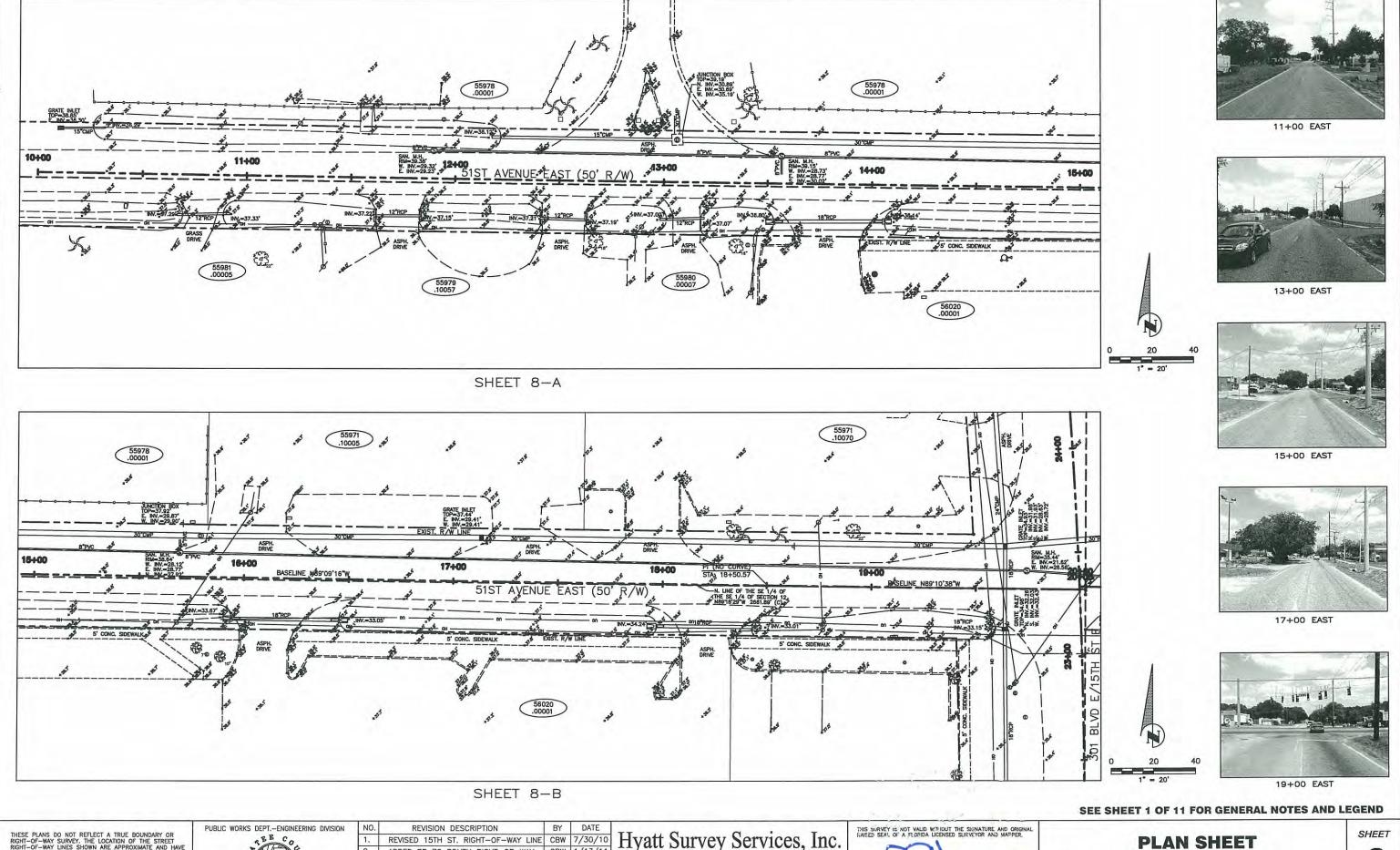


16+36 WEST

SEE SHEET 1 OF 11 FOR GENERAL NOTES AND LEGEND

PLAN SHEET US 301/15th St. E. MANATEE COUNTY, FLORIDA SHEET

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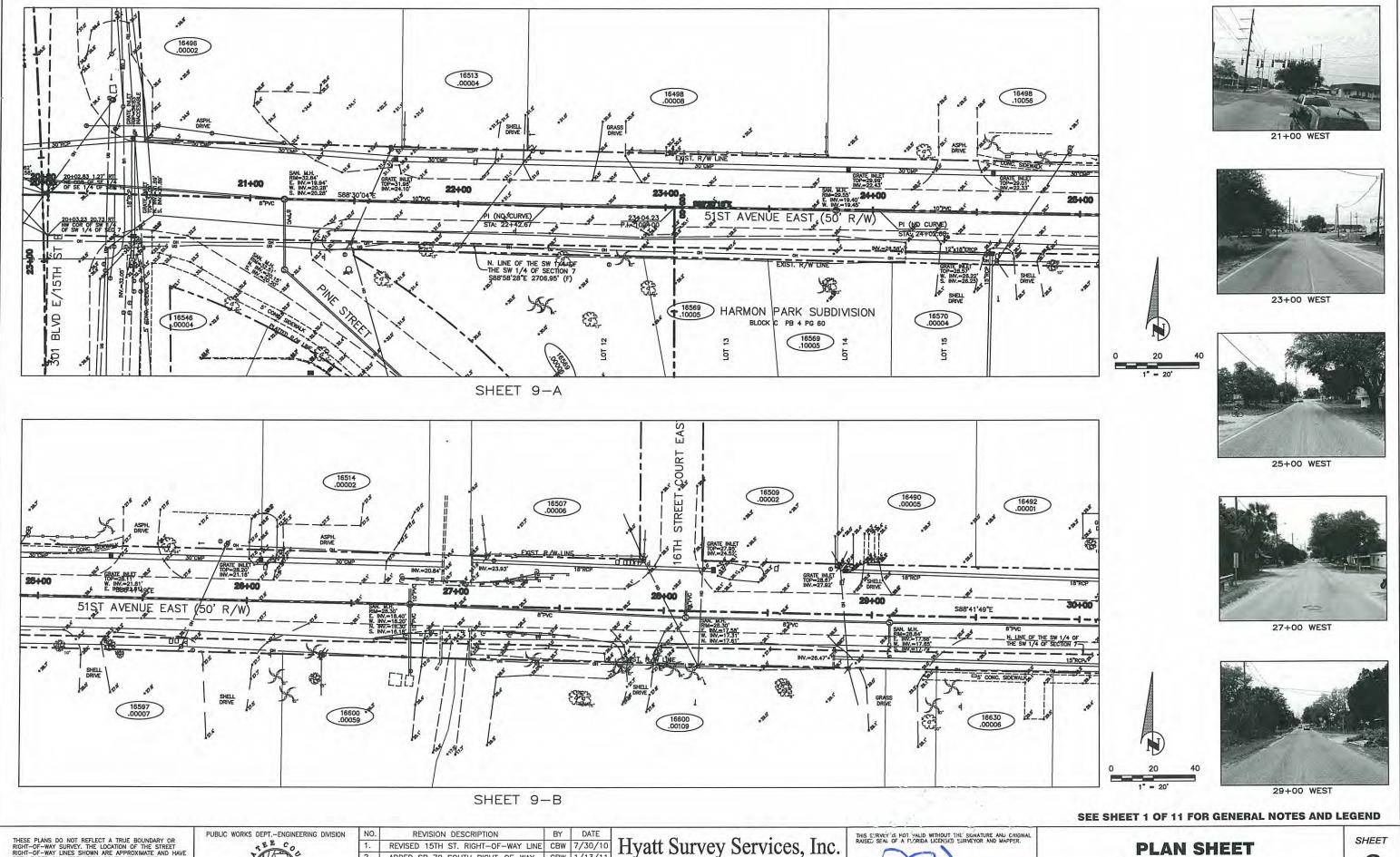
ADDED SR 70 SOUTH RIGHT-OF-WAY CBW 1/13/11

Hyatt Survey Services, Inc. LB No.: 7203 Geographic Data Specialists

11007 8th Avenue East Bradenton, Florida 34212 Phone: (941) 748-4693 Fax: (941) 744-1643

US 301/15th St. E. MANATEE COUNTY, FLORIDA

8



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ADDED SR 70 SOUTH RIGHT-OF-WAY CBW 1/13/11

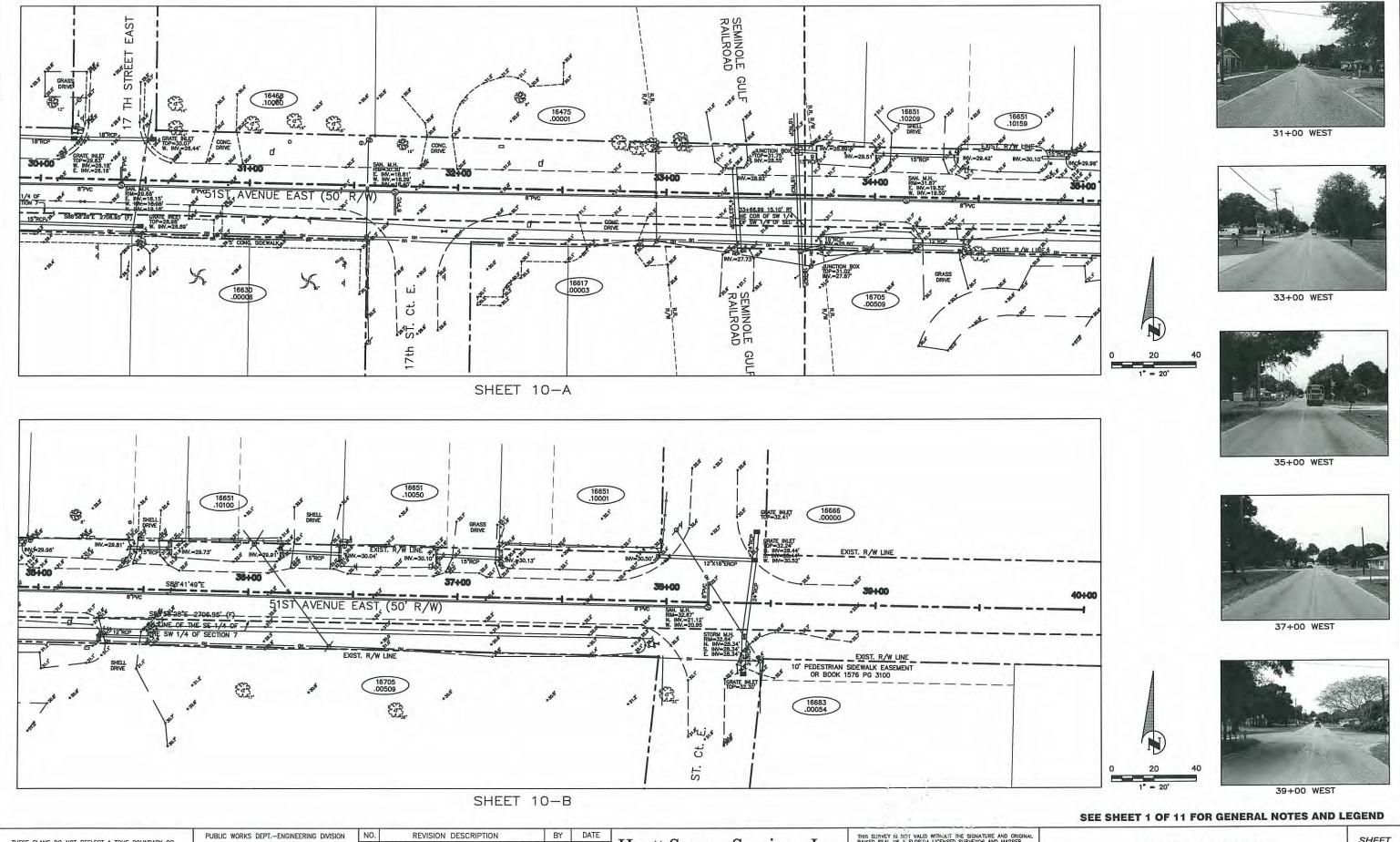
Hyatt Survey Services, Inc.

Geographic Data Specialists 11007 8th Avenue East Bradenton, Florida 34212 Phone: (941) 748-4693 Fax: (941) 744-1643



US 301/15th St. E. **MANATEE COUNTY, FLORIDA**

OF 11



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REVISED 15TH ST. RIGHT-OF-WAY LINE CBW 7/30/10 ADDED SR 70 SOUTH RIGHT-OF-WAY CBW 1/13/11

Hyatt Survey Services, Inc. LB No.: 7203 Geographic Data Specialists

11007 8th Avenue East Bradenton, Florida 34212 Phone: (941) 748-4693 Fax: (941) 744-1643

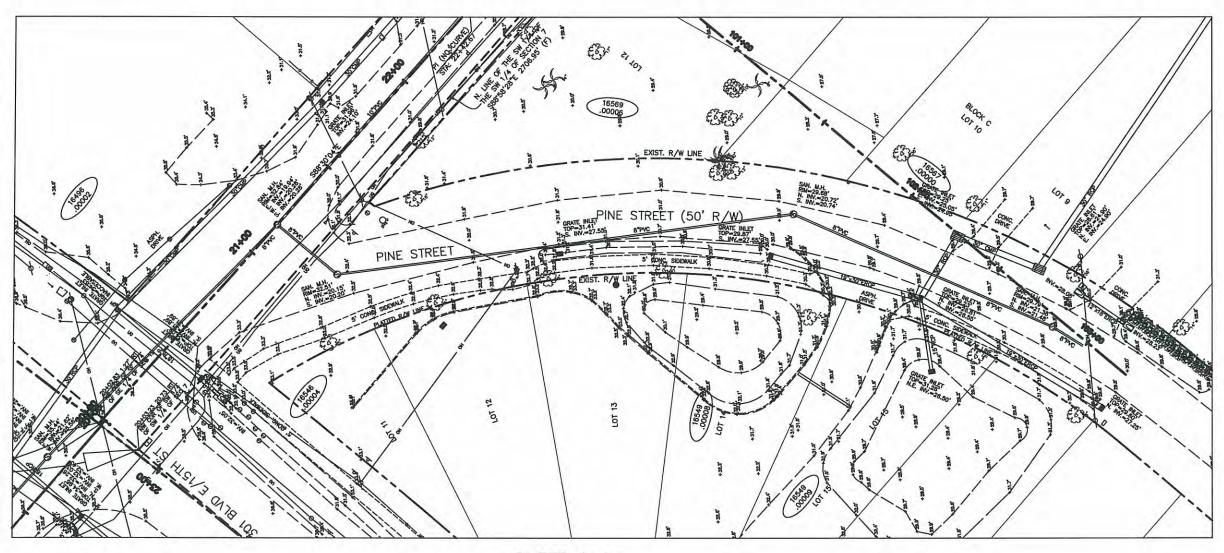
RUSSELL P. HYATT, PSV FLORIDA SURVEYORS REGISTRATION NO. 5303

PLAN SHEET US 301/15th St. E.

MANATEE COUNTY, FLORIDA

SHEET

10 OF 11

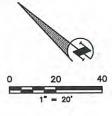




10+00 NORTH



11+00 NORTH



SHEET 4-A

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4422-B 66th Street West, Bradenton, FL 34210

REVISION DESCRIPTION BY DATE REVISED 15TH ST. RIGHT-OF-WAY LINE CBW 7/30/10 PUBLIC WORKS DEPT.-ENGINEERING DIVISION ADDED SR 70 SOUTH RIGHT-OF-WAY CBW 1/13/11

Hyatt Survey Services, Inc. B No.: 7203 Geographic Data Specialists

11007 8th Avenue East Bradenton, Florida 34212 Phone: (941) 748-4693 Fax: (941) 744-1643



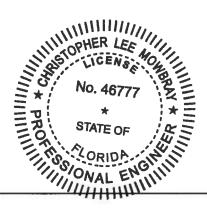
SEE SHEET 1 OF 11 FOR GENERAL NOTES AND LEGEND

PLAN SHEET US 301/15th St. E. MANATEE COUNTY, FLORIDA SHEET

11 OF 11

LINE	ITEM	ITEM						
NO.	NO.	DESCRIPTION	QTY	U/N				
		ROAD WORK		1				
1.	101-1	MOBILIZATION	1.00	LS				
2.	102-1	MAINTENANCE OF TRAFFIC	1.00					
3.	104-10-3	SEDIMENT BARRIER (INCL'S SILT FENCE AND SYNTHETIC BALES)	6,000					
4 . 5 .	104-11	FLOATING TURBIDITY BARRIER CLEARING & GRUBBING	90	AC				
6.	110-1-1	REMOVAL OF EXISTING CONC. PAVEMENT (EXIST. SIDEWALK & CONC. DRIVES)	5 360	S				
7.	110-7-1	MALBOX, F&ISINGLE	7	E				
8.	120-1	REGULAR EXCAVATION (PINE ST. EXIST. BASE AND SUB-BASE TO BE REMOVED)	300	C				
9.	120-1	REGULAR EXCAVATION (INCLUDES PONDS)	4,731	CY				
10.	120-5	EMBANKMENT (EXISTING PINE STREET)	300					
11.	120-6	EMBANKMENT (REGULAR)	2,400					
	327-70-1	MILLING EXIST ASPH PAVT, 1 "AVG DEPTH	5,352					
	MC-001 MC-002	12" TYPE B STABILIZATION (LBR 60)	6,563					
14. 15.	285-706	6" OF STABILIZED SUB-BASE-NEW PINE ST. (LBR 60) 6" OF OPTIONAL BASE GROUP 4	1,453 1,361	SY				
	285-709	10" OF OPTIONAL BASE GROUP 9	6203					
17.	334-MC	2"TYPE S-I ASPHALT	735	TN				
18.	337-MC	1" TYPE S-III ASPHALT	669	TN				
19.	MC-003	GRATE INLET MC 201.1 202.4	4	ĒΑ				
	MC-004	THROAT INLET MC STD. 202.1,202.3,202.4	1	ĒΑ				
	MC-005	JUNCTION BOX. BLOCK BOX-MC STD. 202.1, 202.4,203.1	1	EA				
	MC-006	INLETS (CURB) -MC STD. 202.1, 202.2,202.3,202.4,203.2	5	EA				
	MC-007	INLETS (CURB) -MC STD. 202.1, 202.2,202.4,203.2	2	ΕA				
	MC-008	JUNCTION BOX. BLOCK BOX- MC STD. 202.1, 202.5, 203.1	4	EA				
	MC-009 0425- 2 91	GRATE INLET-PROP. CONCRT. BLOCK BOX-MC STD. 202.1, 202.5 MANHOLE, J-8, <10'	8	EA				
	0425-291	INLETS, DT BOT, TYPE C, MODIFY	1	EA				
	0425 -1563	INLETS, DT BOT, TYPE F, J BOTTOM <10'	1	EA				
	0400-1-2	ENDWALL 15" PIPE	1	CY				
	430-173-101	PIPE STORM SEWER CULV (RCP)(15")	17.00	LF				
31.	430-173-101	PIPE STORM SEWER CULV (RCP)(18")	837.00	LF				
	430-174-201	PIPE STORM SEWER CULV (ERCP) (12"X18")	278.00	LF				
	430-174-102	PIPE STORM SEWER CULV (ERCP) (30")	1,478.00	LF				
	430-982-125	MITERED END SECTION-RCP-ROUND/18"	2.00	EΑ				
	430-984-623 515-23-11	MITERED END SECTION-RCP ROUND 12"X 18" PEDESTRIAN BICYCLE RAILING, ALUMINUM ONLY 42" TYPE 1	4.00	EA				
	522-1	SIDEWALK CONCRETE 4"	91.00 1,034	LF				
	522-2	SIDEWALK CONCRETE 6"THICK (DRIVEWAYS)	660	SY				
	522-3	BUS BOARDING PAD-CONCRETE		SY				
	522-4	BUS SHELTER PAD-CONCRETE	30					
	520-3	VALLEY GUTTER, CONCRETE	207					
	530-3-3	RIP RAP-RUBBLE, BANK AND SHORE	3	TN				
	520-1-10	TYPE F CURB & GUTTER	1,000					
	536-1-2	GUARDRAIL	19					
	570-1-2	PERFORMANCE TURF (BAHIA SOD)	5,592.15	SY				
	MC-011 MC-012	TYPE AB CURB&GUTTER MIAMI CURB&GUTTER	46.00 153	LF				
	WIC-012	PROPOSED 6" WATERLINE RELOCATION FOR ROAD PROJECT	100					
48.	MC-012	6" DI WATERLINE (CL 350) DIRECT BURY	265	LF				
49.	MC-013	6" X 24" TAPPING SLEEVE WITH VALVE	1	ĒΑ				
50.	MC-014	DIFITINGS	250	LB				
	MC-015	RELOCATE WATER SERVICE(SINGLE, LONG)	6	LF				
	MC-016	RELOCATE WATER SERVICE(SINGLE, SHORT)	8	LF				
	MC-017	RELOCATE 2" HDPE WATERLINE (C 906) DR 9	30					
	MC-018	ADJUST VALVE BOX RELOCATE/ADJUST METER BOX	7	EA				
	MC-019 MC-020	RELOCALE/ADJUST METER BOX REMOVE FIRE HYDRANT ASSEMBLY	1	EA EA				
	MC-020 MC-021	FIRE HYDRANT ASSEMBLY	1	EA				
	MC-022	REMOVE 6" WATERLINE	260	LF				
	MC-023	6"HDPE FORCE MAIN AND BYPASS (C 906) DR 11	270					
	MC-024	RELOCATE 6" PVC SEWER SERVICE LATERALS	150	LF				
61.	MC-025	ADJUST MANHOLE LID & COVER	8	ĒΑ				
	MC-026	CONNECT TO EXISTING WATERLINE	1	ĒΑ				
	MC-027	ARV IN MANHOLE (SANITARY)	1	ĒΑ				
	MC-028	6" GATE VALVE W/BOX	1	EA				
65.	MC-029	RELOCATE LIFT STATION ELECT. PANEL & SERVICE	1	LS				

		SIGNALIZATION		1
66.	555-1-1	DIRECTIONAL BORE (LESS THAN 6")	128	LF
67.		CONDUIT (F & I) (UNDERGROUND)		LF
68.		CABLE, SIGNAL (F&I)	1	+
69.		PULL & JUNCTION BOXES (F&I) (PULL BOX)	12	
70.	1	ELECTRICAL POWER SERVICE (UNDERGROUND)	1 1	_
70.	639-2-1	ELECTRICAL SERVICE WIRE (F&I)	· ·	LF
72.	641-2-12	PRESTRESSED CONCRETE POLE (F&I) (TYPE P-11 SRV. POLE.)	415	-
73.	646-1-11	SIGNAL POLE, PEDESTAL (F&I)	6	
74.	649-31-202	MAST ARM (F&I) (WS -130) (SING. ARM) (W/O LUM.) (40')		_
	649-31-202	MAST ARM (F&I) (WS -130) (SING. ARM) (W/O LUM.) (40)	1	
75.			1	
76.	650-1-311	TRAFFIC SIGNAL (F&I) (3 SECT) (1 WAY) (STANDARD)	6	1
77.	650-1-511	TRAFFIC SIGNAL (F&I) (5 SECT) (1 WAY) (STANDARD)	2	
78.	653-191	PEDESTRIAN SIGNAL (F&I) (LED-COUNTDOWN) (1 WAY)	6	1
	653-192	PEDESTRIAN SIGNAL (F&I) (LED-COUNTDOWN) (2 WAY)	1	
80.	663-74-15	VEHICLE DETECTOR ASSEMBLIES (F&I) (VIDEO)	4	
81.	665-13	PEDESTRIAN DETECTOR (F&I) (DETECTOR WITH SIGN ONLY)	7	
82.	670-5-300	TRAFFIC CONTROLLER ASSEMBLY (INSTALL)	1	
83.	670-5-400	TRAFFIC CONTROLLER ASSEMBLY (MODIFY)	1	
84.	685-106	SYSTEMAUX (F&I) (UNINTERRUPTIBLE POWER SOURCE)	1	
	690-10	TRAFFIC SIGNAL HEAD ASSEMBLY, REMOVAL	8	
	690-20	SIGNAL PEDESTRIAN ASSEMBLY, REMOVE	4	
86.	690-34-1	POLE REMOVAL -DEEP (DIRECT BURIAL)	2	
87.	690-60	DETECTOR VEHICLE ASSEMBLY, REMOVE	6	EA
88.	690-80	SPAN WIRE ASSEMBLY REMOVE	1	ĒΑ
89.	690-90	REMOVE CONDUIT & CABLING	1	PI
90.	690-100	SIGNAL EQUIPMENT, MISCELLANEOUS REMOVE	1	1 ' '
91.	699-1-1	INTERNALLY ILLUMINATED SIGN (F&I)	4	ĒΑ
92.	783-1-421	ITS FO CABLE (RELOCATE) (UNDERGROUND) (2 TO 12)	20	LF
93.	783-4-112	ITS CONDUIT (F&I) (UNDERGROUND)	20	LF
94.	783-5-5	ITS PULL BOX FOR FIBER OPTIC CABLE, ADJUST AND MODIFY	1	EA
		SIGNING AND PAVEMENT MARKING		
	700-20-11	SINGLE POST SIGN (F&I) (< 12 SF)	4	AS
	700-20-12	SINGLE POST SIGN (F&I) (12-20 SF)	2	
	700-20-60	SINGLE POST SIGN (REMOVE)	7	AS
	700-48-48	SIGN PANEL RELOCATE, 15 OR LESS	2	EA
99.	706-3	RETRO-REFLECTIVE PAVEMENT MARKERS	424	EA
100.	711-11-111	THERMOPLASTIC (STD., WHITE, SOLID, 6")	1.014	NM
101.	711-11-122	THERMOPLASTIC (STD., WHITE, SOLID, 8")	107	LF
102.	711-11-123	THERMOPLASTIC (STD.,WHITE, SOLID, 12")	443	LF
103.	711-11-125	THERMOPLASTIC (STD., WHITE, SOLID, 24")	124	LF
104.	711-11-151	THERMOPLASTIC (STD., WHITE, 2'-4' SKIP & 6'-10' SKIP, 6")	76	LF
105.	711-11-160	THERMOPLASTIC (STD., WHITE, MESSAGE) (ONLY)	3	EA
	711-11-170	THERMOPLASTIC (STD., WHITE, ARROWS)		EA
	711-11-211	THERMOPLASTIC (STD., YELLOW, SOLID, 6")	1.054	
	711-11-224	THERMOPLASTIC (STD., YELLOW, SOLID, 18")	516	1
	711-11-231	THERMOPLASTIC (STD., YELLOW, 10'-30' SKIP, 6")	0.125	1
	Beern Bore Chine Herenz	55' PEDESTRIAN BRIDGE		
110.	120-1	[REGULAR EXCAVATION (FOUNDATION)	29.00	CY
	0400-4-5	CONCRETE CLASS IV 5500 PSI (FOUNDATION)	14.00	
	0415-1-5	REINFORCING STEEL-SUBSTRUCTURE (FOUNDATION)	1,124.00	
	0530-1	RIPRAP, SAND CEMENT 4"	10.00	
11.7				





15th ST EAST @ 51st AVE EAST AND PINE ST RELOCATION QUANTITY SHEET

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C. MOWBRAY P.E.

2 6 13 Signature & Date

SHEET 12

GENERAL

- ALL CONSTRUCTION ACTIVITIES SHALL BE COORDINATED WITH THE PROJECT MANAGEMENT DIVISION. THE PROJECT MANAGER IS: VINCE CANNA AND CAN BE REACHED AT (941) 708-7450; EXT. 7338.
- 2. SITE VISITS ARE MANDATORY FOR ALL BIDDERS. THESE SITE VISITS CAN BE ARRANGED THROUGH THE
- 3. ALL CONSTRUCTION ON THIS PROJECT SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF MANATEE COUNTY UTILITY AND TRANSPORTATION STANDARDS AND/OR FDOT "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" UNLESS OTHERWISE INDICATED ON THE PLANS.
- VERTICAL CONTROL FOR THIS PROJECT WAS ESTABLISHED BY A MINIMUM OF TWO REFERENCE BENCHMARKS DESCRIBED ON THE "THE NATIONAL GEODETIC VERTICAL DATUM OF 1929", (NGVD '29).
- 5, THE CONTRACTOR SHALL BE RESPONSIBLE FOR MEETING ALL CONDITIONS AND REQUIREMENTS OF ALL PERMITS AND ALL GOVERNING FEDERAL, STATE, AND LOCAL AGENCIES. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL REQUIRED PERMITS THAT ARE NOT PROVIDED IN THE BID DOCUMENTS, AT NO ADDITIONAL COST TO THE OWNER.
- 6. THE INFORMATION PROVIDED IN THESE PLANS IS SOLELY TO ASSIST THE CONTRACTOR IN ASSESSING THE NATURE AND EXTENT OF THE CONDITIONS WHICH MAY BE ENCOUNTERED DURING THE COURSE OF WORK. ALL CONTRACTORS ARE DIRECTED, PRIOR TO BIDDING, TO CONDUCT WHATEVER INVESTIGATION THEY MAY DEEM NECESSARY TO ARRIVE AT THEIR OWN CONCLUSIONS RECARDING THE ACTUAL CONDITIONS THAT WILL BE ENCOUNTERED, AND UPON WHICH THEIR BIDS WILL BE BASED.
- THE CONTRACTOR SHALL REVIEW AND VERIFY ALL DIMENSIONS ON THE PLANS AND REVIEW ALL FIELD CONDITIONS
 THAT MAY AFFECT CONSTRUCTION. SHOULD DISCREPANCIES OCCUR, THE CONTRACTOR SHALL NOTIFY THE ENGINEER TO OBTAIN THE ENGINEER'S CLARIFICATION BEFORE COMMENCING WITH CONSTRUCTION.
- 8. AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION, THE CONTRACTOR SHALL CONTACT SUNSHINE STATE ONE CALL OF FLORIDA AT 1-800-432-4770 OR THE NATIONAL 811 ONE CALL NUMBER WHEN APPLICABLE FOR UTILITY LOCATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH ALL UTILITIES FOR THE POSSIBLE RELOCATION OR THE TEMPORARY MOVEMENT OF ANY EXISTING UTILITIES WITHIN THE RIGHTS-OF-WAY.
- NO WORK, EXCEPT FOR EMERGENCY TYPE, SHALL BE PERFORMED AFTER 7:00 PM AND BEFORE 7:00 AM. FOR ADDITIONAL PROJECT RESTRAINTS, REFER TO SECTION 01310 OF THE SPECIFICATIONS.
- 10. ALL STATIONS AND OFFSETS REFER TO BASELINE OF CONSTRUCTION, UNLESS OTHERWISE NOTED.
- 11. THE CONSTRUCTION LENGTHS IN THESE PLANS ARE APPROXIMATE. ACTUAL LIMITS MAY BE SET IN THE FIELD AS
- 12. SEPARATE PAYMENT SHALL BE MADE ONLY FOR THE ITEMS OF WORK LISTED AND IDENTIFIED BY APPROPRIATE PAY ITEM ON THE BID FORM. THE COST OF ANY RELATED WORK NOT SPECIFICALLY IDENTIFIED, BUT WHICH IS REQUIRED FOR SATISFACTORY COMPLETION OF THE WORK, SHALL BE CONSIDERED TO BE INCLUDED IN THE CONTRACT PRICE FOR THE APPROPRIATE BID ITEM.
- 13. THE CONTRACTOR SHALL HAVE A FOREMAN, OR RESPONSIBLE PARTY, ON SITE AT ALL TIMES WHEN WORK IS BEING PERFORMED, ALL WORKERS ON THE JOB SITE WILL BE COURTEOUS TO THE PUBLIC AT ALL TIMES, AND SHALL REFER ANY QUESTIONS OR CONCERNS TO THE CONTRACTOR'S FOREMAN OR THE COUNTY INSPECTOR. THE FOREMAN SHALL SPEAK AND UNDERSTAND ENGLISH AND SHALL BE AVAILABLE AT ALL TIMES FOR TIMELY RESOLUTION OF PROJECT-RELATED ISSUES.
- 14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE COORDINATION OF CONSTRUCTION SCHEDULING BETWEEN CONTRACTOR AND ALL UTILITY AGENCIES.
- THIS INCLUDED MEETING WITH UTILITY AGENCIES PRIOR TO THE PRE-CONSTRUCTION CONFERENCE TO ADJUST THEIR SCHEDULES TO COINCIDE WITH THE CONTRACTORS CONSTRUCTION SCHEDULE. (REFERENCE CONTRACT DOCUMENTS)
- 15. ANY DAMAGE TO STATE, COUNTY, OR LOCAL ROADS CAUSED BY THE CONTRACTOR'S HAULING OR EXCAVATION EQUIPMENT SHALL BE REPAIRED BY THE CONTRACTOR TO THE SATISFACTORY OF THE COUNTY PROJECT MANAGER. PAYMENT SHALL NOT BE MADE FOR THIS WORK.
- 16. ALL CONSTRUCTION WITHIN FDOT RIGHT-OF-WAY IS TO BE IN ACCORDANCE WITH CURRENT FDOT STANDARD SPECIFICATIONS FOR ROADWAY CONSTRUCTION AND THE DESIGN STANDARDS.
- ALL SIGNING, STRIPING AND RPM PLACEMENT WITHIN THE FDOT RIGHT-OF-WAY IS TO BE IN ACCORDANCE WITH FDOT STANDARD INDEX 17346.

- 18. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLIANCE WITH THE FLORIDA TRENCH SAFETY ACT, 90-96, LAWS OF FLORIDA EFFECTIVE OCTOBER 1, 1990 AND THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION EXCAVATION SAFETY STANDARDS, 29 CFR 1926.850, SUBPART P, AS AMENDED. THE CONTRACTOR SHALL INCLUDE IN THE TOTAL BIID PRICE ALL COSTS FOR COMPLIANCE WITH THESE REGULATIONS.
- 19. THE CONTRACTOR SHALL USE SHEET PILING, SHEETING, BRACING, ETC., AS REQUIRED IN ALL EXCAVATION AREAS AND CONFORM TO ALL OSHA REQUIREMENTS.
- 20. THE CONTRACTOR SHALL USE ALL NECESSARY SAFETY PRECAUTIONS TO AVOID CONTACT WITH OVERHEAD AND UNDERGROUND UTILITIES, POWER LINES, ETC.
- 21. THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY, THIS EXCLUSION DOES NOT ALLEVIATE THE CONTRACTOR FOR PROVIDING A CONTINUOUS SAFE WORKSPACE.

- 22. CONTRACTOR IS RESPONSIBLE FOR INSTALLATION ALL SEDIMENT AND EROSION CONTROL (SEC) DEVICES (E.G., BARRIERS, COMIRACIUM IS RESPUNSIBLE FOR INSTALLATION ALL SEDIMENT AND EROSION CONTROL (SEC) DEVICES (E.G., BARRIERS, SEDIMENT TRAPS/BASINS, VEGETATIVE BUFFERS, ETC.) AS SPECIFIED IN THE FINLAL APPROVED PLANS FOR THE PROJECT AS VELL AS CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL SEC DEVICES UTILIZED DURING THE PROJECT, AS WELL AS INSTALLATION & MAINTENANCE OF ANY ADDITIONAL MEASURES DEEMED NECESSARY DURING PROJECT IMPLEMENTATION, TO PREVENT EROSION AND OFF-SITE SEDIMENT MIGRATION. CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR REMOVAL AND PROPER DISPOSAL OF ALL SEC DEVICES UPON CONCLUSION OF THE PROJECT, AND UPON ADEQUATE STABILIZATION OF DISTURBED SOILS.
- 23. WHEN A BENTONITE SPILL OR FRACK-OUT OCCURS OR THERE IS A LOSS OF RETURN INDICATING EXCESSIVE SEEPAGE OR LOSS OF DRILLING FLUID, DRILLING MUST BE STOPPED UNTIL THE LOCATION OF THE SPILL IS IDENTIFIED. UNDER NO CIRCUMSTANCES WILL DRILLING CONTINUE WHEN A SPILL IS APPARENT
- 24. ONCE LOCATED, THE BENTONITE SPILL MUST BE ISOLATED AND SEEPAGE INTO ANY NEARBY WATER BODIES WILL BE BLOCKED DEPENDING ON THE DEGREE OF THE SPILL, THE ISOLATED BENTONITE MUST BE REMOVED MANUALLY OR MECHANICALLY AND DISPOSED OF BY APPROPRIATE MEANS OR REUSED.
- 25. THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL NECESSARY STORM WATER, EROSION, AND SEDIMENTATION CONTROL MEASURES IN ACCORDANCE WITH THE FOEP "FLORIDA STORM WATER, EROSION AND SEDIMENTATION CONTROL INSPECTOR'S MANUAL". IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONTROL AND PREVENT EROSION AND TRANSPORT OF SEDIMENT TO SURFACE DRAINS AND TO DITCHES DURING CONSTRUCTION
- 26. STOCKPILES SHALL BE PROTECTED AT ALL TIMES BY ON-SITE DRAINAGE CONTROLS WHICH PREVENT EROSION OF THE STOCKPILED MATERIAL CONTROL OF DUST FROM SUCH STOCKPILES IS REQUIRED, DEPENDING UPON THEIR LOCATION AND THE EXPECTED LENGTH OF TIME THE STOCKPILES WILL BE PRESENT. IN NO CASE SHALL ANY STOCKPILED MATERIAL REMAIN AFTER THIRTY (30) CALENDAR DAYS.

 27. STORM WATER INLETS IN THE VICINITY OF THE PROJECT SHALL BE PROTECTED BY SEDIMENT TRAPS SUCH AS SECURED HAY BALES, SOD, STONE, ETC., WHICH SHALL BE MAINTAINED AND MODIFIED AS REQUIRED BY CONSTRUCTION PROGRESS, AND WHICH MUST BE APPROVED BY THE ENGINEER BEFORE INSTALLATION. THIS WILL BE MAINTAINED TO PREVENT DEGRADATION OF THE WATERS OF THE COUNTY AND STATE.
- 28. SEDIMENT BASINS AND TRAPS. PERIMETER BERMS. SEDIMENT BARRIERS, VEGETATIVE BUFFERS, AND OTHER SEDIMENT BASINS AND TRAPS, PERIMETER BERMS, SEDIMENT BARRIERS, VEGETATIVE BUFFERS, AND OTHER MEASURES INTENDED TO TRAP SEDIMENT AND/OR PREVENT THE TRANSPORT OF SEDIMENT ONTO ADJACENT PROPERTIES, OR INTO EXISTING BODIES OF WATER, MUST BE INSTALLED, CONSTRUCTED, OR IN THE CASE OF VEGETATIVE BUFFERS, PROTECTED FROM DISTURBANCE, AS A FIRST STEP IN THE LAND ALTERATION PROCESS. SUCH SYSTEMS SHALL BE FULLY OPERATIVE BEFORE ANY OTHER DISTURBANCE OF THE SITE BEGINS. EARTHEN STRUCTURES INCLUDING BUT NOT LIMITED TO BERMS, EARTH FILTERS, DAMS OR DIKES SHALL BE STABILIZED AND PROTECTED FROM DRAINAGE DAMAGE OR EROSION WITHIN ONE (1) WEEK OF INSTALLATION.

- 29. ALL SWALES, DITCHES, AND CHANNELS LEADING FROM THE SITE SHALL BE PROTECTED FROM SILTATION AND EROSION DURING CONSTRUCTION AND BE SODDED WITHIN THREE (3) DAYS OF EXCAVATION.
- 30. SOIL DISPLACED BY CONSTRUCTION WILL BE REMOVED. EROSION CONTROL SHALL BE IMPLEMENTED IN AREAS WHICH ARE CONSIDERED ENVIRONMENTALLY SENSITIVE. EROSION CONTROL SYSTEMS SHALL BE REQUIRED FOR ALL WORK WITHIN JURISDICTIONAL FARES, THESE SYSTEMS MAY INCLUDE STAKED HAY BALES, SILT SCREENS, CLEAR OF THE PROPRIES.
- 31. ALL EROSION AND POLLUTION CONTROL DEVICES SHALL BE CHECKED REGULARLY, ESPECIALLY AFTER EACH RAINFALL AND SHALL BE CLEANED OUT AND/OR REPAIRED AS REQUIRED.
- 32. THE CONTRACTOR SHALL NOT ENTER UPON OR IN ANY WAY ALTER WETLAND AREAS THAT MAY BE ON OR NEAR THE CONSTRUCTION SITE. ALL WORK IN THE VICINITY OF OPEN WATER AND/OR WETLANDS IS TO BE PERFORMED IN COMPLIANCE WITH THE ENVIRONMENTAL REGULATIONS AND/OR PERMITS FOR THE SITE. THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY FINES RESULTING FROM HIS VIOLATION OF ANY FREGULATIONS OR PERMIT CONDITIONS.
- 33. FOR MORE INFORMATION, SEE THE EROSION CONTROL DETAIL SHEET INCLUDED IN THE PLANS.

- 34. ALL CONSTRUCTION ACTIVITIES SHALL BE LIMITED TO WITHIN THE MANATEE COUNTY/FDOT RIGHT-OF-WAY AND/OR EASEMENTS SHOWN ON THE DRAWINGS.
 35. THE CONTRACTOR SHALL EMPLOY A LAND SURVEYOR REGISTERED IN THE STATE OF FLORIDA TO REFERENCE AND RESTORE PROPERTY CORNER MONUMENTS, PINS, AND LANDMARKS THAT MAY BE DISTURBED BY CONSTRUCTION AT NO ADDITIONAL COST TO THE OWNER.
- 36. THE CONTRACTOR, PRIOR TO CONSTRUCTION AND RESTRICTING ANY TRAFFIC, MUST OBTAIN A RIGHTS-OF-WAY USE PERMIT AND A TRAFFIC CONTROL PLAN. THE CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS FROM OTHER GOVERNMENTAL AGENCIES HAVING RELEVANT JURISDICTION. ALL MAINTENANCE AND PROTECTION OF TRAFFIC SHALL BE IN ACCORDANCE WITH THE APPLICABLE REQUIREMENTS OF THE CURRENT FLORIDA DEPARTMENT OF TRANSPORTATION "MANUAL OF TRAFFIC CONTROL AND SAFE PRACTICES". A TRAFFIC CONTROL PLAN SHALL BE SUPPLIED BY THE CONTRACTOR AT THE PRE-CONSTRUCTION MEETING.
- 37. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING ALL DAMAGED STORM WATER STRUCTURES, PIPING, ENTRANCE PIPE AND HEADWALLS, THAT ARE TO REMAIN, WHETHER SHOWN ON THE PLANS OR NOT.
- 38. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ESTABLISH IN THE FIELD THE RIGHT-OF-WAY LINES, BASE LINES, BENCH MARKS (ELEV.), CENTER LINES, AND STATIONING AS REQUIRED TO CONSTRUCT THIS PROJECT. ROADWAY PLANS AND PROPOSED DESIGN ARE BASED ON TOPOGRAPHIC SURVEYS PROVIDED BY MANATEE COUNTY PROJECT MANAGEMENT AND ZOLLAR NAJIAR & SHROYER UNDER COUNTY PROJECT NO'S 334-600106D AND 319-6045661, REFER TO THE ORIGINAL SIGNED AND SEALED SURVEY CONTROL SHEETS IN THE PROJECT FILE.
- 39. THE CONTRACTOR SHALL COORDINATE THE CUTTING OF DRIVEWAYS WITH THE PROPERTY OWNER PRIOR TO CUT, ALL DRIVEWAYS WILL BE IN PASSABLE CONDITION AT THE END OF THE WORK DAY AND FULLY RESTORED PER SPEC. 2575. THE CONTRACTOR SHALL COORDINATE WITH THE AFFECTED UTILITY COMPANY FOR THE ADJUSTMENT OF ANY EXISTING UTILITIES AND STRUCTURES IN ORDER TO MATCH THE PROPOSED ELEVATIONS AND ALIGNMENTS.
- 40. A RIGHT OF ENTRY AGREEMENT SHALL BE OBTAINED BY THE PROJECT MANAGER FROM THE PROPERTY OWNER BEFORE ANY DRIVEWAY CONSTRUCTION WORK IS DONE OUTSIDE OF THE RIGHT-OF-WAY OR EASEMENT.

- 41. LOCATIONS, ELEVATIONS AND DIMENSIONS OF EXISTING UTILITIES, STRUCTURES AND OTHER FEATURES ARE SHOWN TO THE BEST INFORMATION AVAILABLE AT THE TIME OF PREPARATION OF THESE PLANS BUT DO NOT PURPORT TO BE ABSOLUTELY CORRECT. THERE MAY BE OTHER IMPROVEMENTS, UTILITIES, ETC. WHICH ARE WITHIN THE PROJECT AREA AND WHICH HAVE NOT BEEN LOCATED OR IDENTIFIED, MAY NOT BE IN THE EXACT LOCATION SHOWN OR RELOCATED SINCE THE PREPARATION OF THESE PLANS. THE CONTRACTOR SHALL VERIFY, PRIOR TO CONSTRUCTION, THE LOCATIONS, ELEVATIONS AND DIMENSIONS OF ALL EXISTING UTILITIES STRUCTURES AND OTHER FEATURES (WHETHER OR NOT SHOWN ON THE PLANS) THAT MAY AFFECT HIS WORK. ALL EXISTING UTILITIES TO BE EXTENDED, CROSSED OR CONNECTION POINTS SHALL BE EXPOSED PRIOR TO CONSTRUCTION TO VERIFY LOCATION AND ELEVATIONS AND DISCREPANCIES OR COMPLETE'S COUNTY AND ELEVATION TO THE ENVIRONMENT. LOCATION AND ELEVATION. ANY DISCREPANCIES OR CONFLICTS FOUND SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION FOR RESOLUTION. UTILITIES DESIGNATED W, VH, AND WH ARE BASED ON LUMITED 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. EXTREME CAUTION SHALL BE EXERCISED WHEN WORKING NEAR THE 20"/24" WATERLINE.
- 42. THE CONTRACTOR SHALL PROTECT ALL EXISTING STRUCTURES, WATER AND SEWER LINES, STORM DRAINS, UTILITIES, DRIVEWAYS, SIDEWALKS, SIGNS, MAIL BOXES, FENCES, TREES, LANDSCAPING, AND ANY OTHER IMPROVEMENT OR FACILITY IN THE CONSTRUCTION AREA. THE CONTRACTOR SHALL REPAIR AND/OR REPLACE ANY DAMAGED ITEM DUE TO HIS CONSTRUCTION ACTIVITIES TO EQUAL OR BETTER THAN PRE—CONSTRUCTION CONDITIONS AT NO ADDITIONAL COST TO THE OWNER.
- 43. THE CONTRACTOR SHALL USE APPROPRIATE TECHNIQUES, AS APPROVED, RECOMMENDED OR OFFERED BY FLORIDA POWER AND LIGHT TO PREVENT UNDERMINING OF POWER POLES DURING CONSTRUCTION. IF HOLDING OF POWER POLES IS RECOMMENDED OR REQUIRED BY THE UTILITY, THE CONTRACTOR SHALL COORDINATE THIS ACTIVITY WITH
- 44. ANY TEMPORARY SHUTDOWNS FOR MODIFICATIONS OF EXISTING COUNTY SEWER, POTABLE & RECLAIM WATER SYSTEMS THAT MUST REMAIN IN SERVICE DURING CONSTRUCTION SHALL BE KEPT TO A MINIMUM AND SHALL BE COORDINATED WITH AND APPROVED BY THE MANATEE COUNTY UTILITY OPERATIONS DEPARTMENT IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. IT IS NOTED THAT TEMPORARY SHUTDOWNS MAY BE RESTRICTED TO CERTAIN THE DAY OR NIGHT AND WILL BE COMPLETED AT NO ADDITIONAL COST TO THE OWNER.
- 45. EXCEPT WERE THE PLANS AND SPECIFICATIONS PROVIDE THAT SUCH WORK SHALL BE PERFORMED UNDER THE CONTRACT FOR THIS PROJECT. ALL UTILITIES INTERFERING WITH CONSTRUCTION SHALL BE REMOVED, RELOCATED OR ADJUSTED BY THEIR OWNERS, AT THEIR EXPENSE. THE CONTRACTOR SHALL ARRANGE HIS SCHEDULE TO ALLOW UTILITY OWNERS TIME FOR THE NECESSARY RELOCATION AND ADJUSTMENT OF UTILITIES AND RELATED
- OF MAST ARMS/FOUNDATIONS, OVERHEAD/CANTILEVER SIGNS/ROUNDATIONS, AND THE MOVEMENT/INSTALLATION OF OF MAST ARMS/FOONDATIONS, OVERHEAD/CANTILEVER SIGNS/ROUNDATIONS, AND THE MOVEMENT/INSTALLATION OF STRAIN POLES SHALL MEET THE FOLLOWING REQUIREMENTS: 1) OVERTHEAD LINES SHALL STAY IN PLACE BOTH VERTICALLY AND HORIZONTALLY 2) CONTRACTOR SHALL MEET ALL APPLICABLE OSHA REQUIREMENTS (SEPARATION SHALL FOLLOW FPL GUIDELINES). ANY COST ASSOCIATED WITH THIS TYPE OF EQUIPMENT REQUIRED FOR THIS INSTALLATION IS INCLUDED IN THE RELATED PAY ITEMS. PLEASE REFER TO THE SPECIAL CONDITIONS IN THE UTILITY WORK SCHEDULE AND UTILITY COORDINATION.
- 47. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH ALL UTILITY COMPANIES FOR THE RELOCATION AND ADJUSTMENT OF ALL UTILITIES, INCLUDING, ANY EXISTING POWER POLES AND/OR UTILITY CONDUITS WITHIN RIGHT-OF-WAY.
- 48. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE WITH THE APPROPRIATE PARTIES TO DETERMINE THE COUNTY'S FIBER COMMUNICATION NETWORK, KNOWN AS ATMS (COUNTY ISD, SCHOOL BOARD, AND TRAFFIC MANAGEMENT CENTER) IN THE AREA TO ACCOMMODATE ANY POTENTIAL CONFLICTS. AS—BUILT INFORMATION FOR EXISTING COMMUNICATION CONDUIT AND FIBER IS AVAILABLE FROM OLGA ROSIER, WITH UTILITY RECORDS (941—792—8811 EXT. 5059). CONSTRUCTION PLAN INFORMATION FOR PROJECTS UNDER CONSTRUCTION WITH THE COUNTY'S TRAFFIC MANAGEMENT CENTER ARE AVAILABLE AT WWW.MANATEEATMS.COM AND WWW.MANATEEATMS2.COM.
- 49. CONTRACTOR SHALL MINIMIZE EROSION OF THE AREA SURROUNDING FPL TRANSMISSION POLES.
- 50. THE ROADWAY CONTRACTOR MUST MAINTAIN CLEARANCES, AS REQUIRED BY OSHA, WHEN WORKING IN THE PROXIMITY OF FPL'8 HIGH-VOLTAGE TRANSMISSION AND LOW VOLTAGE DISTRIBUTION CONDUCTORS.
- 51. THE ROADWAY CONTRACTOR MUST MAINTAIN ACCESS TO ALL FPL FACILITIES AT ALL TIMES DURING HIS CONSTRUCTION, AND PROVIDE PROPER TRAFFIC CONTROL AROUND THEM.

DRAINAGE AND GRADING

- 52. ALL CONSTRUCTION IS TO BE STAKED IN THE FIELD BY OR UNDER THE SUPERVISION OF A FLORIDA REGISTERED
- 53. THE CONTRACTOR IS TO PROVIDE THE ENGINEER OF RECORD WITH REPRODUCIBLE RECORD DRAWINGS SHOWING ALL IMPROVEMENT LOCATIONS AND ELEVATIONS IN ACCORDANCE WITH LATEST MANATEE COUNTY TRANSPORTATION

DEPARTMENT STANDARDS AND SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT (SWFWMD) STANDARDS. THE CONTRACTOR SHALL ALSO PROVIDE FIVE SETS OF PRINTS, SIGNED AND SEALED BY A PROFESSIONAL LAND SURVEYOR, OF THE RECORD DRAWINGS TO THE ENGINEER OF RECORD. THESE RECORD DRAWINGS SHALL SPECIFICALLY INCLUDE STORMWATER FACILITY LOCATIONS, INCLUDING TOP OF BANK, UNDERDRAIN AND CONTROL STRUCTURES, SHALL BE PERFORMED BY A REGISTERED LAND SURVEYOR AND REVIEWED BY THE ENGINEER OF RECORD PRIOR TO ACCEPTANCE AND PAYMENT. BENCH MARKS WITH THE ELEVATION CLEARLY AND PERMANENTLY MARKED ARE TO BE PLACED ON THE TOP DOF ALL PROPOSED OUTFALL CONTROL STRUCTURES. RECORD DRAWINGS OF ALL MITIGATION AREAS INCLUDING ELEVATIONS, CANCES AND LIMITS SHALL BE PERFORMED BY A REGISTERED LAND SURVEYOR AND REVIEWED BY THE ENGINEER OF RECORD PRIOR TO ACCEPTANCE AND PAYMENT. THE RECORD DRAWINGS SHALL SPECIFICALLY INCLUDE THE SURFACE AREA OF STORMWATER FACILITY AREAS AT NORMAL WATER 1.0 THE PARKS AT THE RECORD DRAWINGS SHALL SPECIFICALLY INCLUDE THE SURFACE AREA OF STORMWATER FACILITY AREAS AT NORMAL WATER 1.0 TO PANK AND PERMAN AND/OR LITTORAL. , TOP OF BANK AND ELEVATION (NWL25), AT HIGH WATER ELEVATION (HWL ALL MITIGATION AND/OR LITTORAL

- 54. TO PREVENT SEDIMENTARY RUNOFF DURING CONSTRUCTION, STAKED HAY BALES, STAKED SILT SCREENS OR INLET DEBRIS CONTROL SCREENS ARE TO BE PLACED AT STORM INLETS, OUTFALL LOCATIONS AND ADJACENT PROPERTY LINES AS REQUIRED PRIOR TO ANY CONSTRUCTION ACTIVITIES. SEDIMENT AND EROSION CONTROL DEVICES SHALL LINES AS REQUIRED PRIOR TO ANY CONSTRUCTION ACTIVITIES. SEDIMENT AND EROSION CONTROL DEVICES SHALL BE INSTALLED AND THEN VERIFIED/INSPECTED BY MANATEE COUNTY INFRASTRUCTURE INSPECTIONS RESOURCES DIVISION (708—7450) PRIOR TO COMMENCEMENT OF CONSTRUCTION THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING THE SEDIMENTATION BARRIERS IN A WORKING MANNER FOR THE DURATION OF CONSTRUCTION AND SHOULD BE CHECKED DAILY. SILTATION ACCUMULATIONS GREATER THAN THE LESSER OF 12 INCHES OR ONE—HALF OF THE DEPTH OF THE SEDIMENTATION BARRIER SHALL BE IMMEDIATELY REMOVED AND REPLACED IN UPLAND AREAS. IN ADDITION TO SPECIFIED EROSION CONTROL LOCATIONS, THE CONTRACTOR SHALL PERFORM DAILY SITE INSPECTION OF POTENTIAL EROSION PROBLEMS. IF PROBLEMS OCCUR, THE CONTRACTOR IS RESPONSIBLE FOR INSTALLING APPROPRIATE EROSION CONTROL IMMEDIATELY, AN INSPECTION LOG SHALL BE MAINTAINED AND AVAILABLE ONSITE AT ALL TIMES. STORMWATER TREATMENT FACILITIES INCLUDING OUTFALL PER DETAIL ARE TO BE CONSTRUCTED EARLY IN SITE DEVELOPMENT, WITH NO OFF— SITE UNITREATED RUN—OFF OCCURRING DURING CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING TEMPORARY EROSION CONTROL DEVICES FOLLOWING COMPLETION OF ALL CONSTRUCTION AND FINAL STABILIZATION.
- 55. ALL PIPE LENGTHS SHOWN ON PLAN VIEW ARE TO THE END OF THE MITERED END SECTION. REFER TO MITERED END SECTION DETAIL FOR LENGTH OF PIPE TO BE INCLUDED IN PRICE FOR MITERED END SECTION.
- 56. TOPOGRAPHIC AND PROPERTY SURVEYS GMING LOT SIZE, GROUND ELEVATIONS, OBSTRUCTIONS ON SITE, LOCATIONS AND DEPTHS OF SEWERS, CONDUITS, PIPES, EXISTING STRUCTURES, CURBS, PAVEMENTS, TRACTS, AND SOIL BORING DATA GMING THE NATURE OF GROUND AND SUBSURFACE CONDITIONS HAVE BEEN OBTAINED FROM RELIABLE SOURCES. THE ACCURACY OF THIS DATA IS NOT GUARANTEED, AND IS FURNISHED SOLELY AS AN ACCOMMODATION TO THE CONTRACTOR. USE OF THIS DATA SHALL BE MADE AT THE CONTRACTOR'S DISCRETION. NO ADDITIONAL COMPENSATION WILL BE GRANTED DUE TO THE CONTRACTOR'S LACK OF KNOWLEDGE OF SITE CONDITIONS. PRIOR TO BID SUBMISSION, THE CONTRACTOR SHALL CONDUCT ANY ADDITIONAL SURVEYS AND SOILS TESTS HE MAY DEEM NECESSARY TO VERIFY THE ACCURACY OF THE INFORMATION PROVIDED.
- 57. THE CONTRACTOR SHALL VERIFY TOPOGRAPHY AND SATISFY HIMSELF AS TO THE EXTENT OF FILL NECESSARY TO ACHIEVE FINISHED GRADE PRIOR TO AWARD OF CONTRACT. THERE SHALL BE NO CLAIM FOR EXTRAS NOTWITHSTANDING SITE PLAN REVISIONS PROMULGATED SUBSEQUENT TO AWARD OF CONTRACT.
- 58. ROADSIDE UNDERDRAIN SHOWN ON PLAN IS MINIMUM AND EXTENSION SHALL BE REQUIRED AS DETERMINED NECESSARY BY THE ENGINEER OF RECORD AND/OR MCPWD INSPECTION DEPARTMENT DURING THE COURSE OF
- 59. SUITABLE FILL MATERIAL FROM EXCAVATION SHALL BE UTILIZED FOR PROJECT FILL PER GRADING SPECIFICATIONS. UNSUITABLE MATERIAL SHALL BE PLACED IN OPEN AREAS ONLY AS DIRECTED BY THE PROJECT ENGINEER AND SOILS ENGINEER IN ACCORDANCE WITH FOOT INDEX 505.
- 60. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ALL STRUCTURES PRIOR TO INSTALLATIONS.
- 61. REFER TO CONSTRUCTION TECHNICAL SPECIFICATIONS FOR COMPACTION REQUIREMENTS, GRASSING/SODDING REQUIREMENTS, AND PAYING CONSTRUCTION MATERIAL SPECIFICATIONS.
- 62. ALL FILL AREAS ARE TO BE CONSTRUCTED IN 12" MAXIMUM LIFTS.
- 63. THE CONTRACTOR SHALL REVIEW SOILS TESTS AS PERFORMED BY THE SOIL CONSULTANT AND IS ENCOURAGED TO CONDUCT ON—SITE TESTING TO SATISFY HIMSELF AS TO ACTUAL LIMITS OF REMOVAL AND REPLACEMENT OF UNSUITABLE MATERIALS PRIOR TO BIDDING.
- 64. ON SLOPES GREATER THAN 3:1 PEGGING OR PINNING OF SOD MAY BE REQUIRED.
- 65. STATION LOCATIONS AND DFFSETS FOR STORM DRAIN INLETS AND MANHOLES REFERENCE THE CENTER OF THE . STATION LOCATIONS AND OFFSETS FOR STORM DEARN INLETS AND MANIFOLES REFERENCE INE CENTER OF THE SPECIFIED STRUCTURE BOTTOM STATION LOCATION IS CENTER OF STRUCTURE BOTTOM STATION LOCATION IS CENTER OF RISER FOR CURB INLETS. FOR PIPES WITH MITERED END SECTIONS, THE PROPOSED LENGTHS SHOWN ON THE PLANS INCLUDE THE LENGTH OF THE MITERED END SECTION. PAYMENT FOR PIPE SHALL NOT INCLUDE THE LENGTH OF THE MITERED END SECTION. AS SPECIFIED BY DIMENSION "F" AS SHOWN IN FOOT INDEX 272 AND 273. PAYMENT SHALL BE FROM INSIDE STRUCTURE WALL TO INSIDE STRUCTURE WALL ANY EXTRA PIPE LENGTH LISTED SHALL BE CONSIDERED CONTINGENT.
- 66. ALL CURB INLET AND JUNCTION BOX STORMWATER STRUCTURES SHALL HAVE HEAVY DUTY RING AND COVER MANHOLE ACCESS
- 67. DURING DEWATERING OPERATIONS, THE CONTRACTOR SHALL NOT DISCHARGE DIRECTLY TO RECEIVING WATERS, EXISTING CONVEYANCES TO RECEIVING WATERS, OR WETLAND SYSTEMS. TEMPORARY SEDIMENT BASINS, TRAPS, OR SILTATION REDUCTION DEVICES SHALL BE UTILIZED TO COLLECT THE DISCHARGE FROM DEWATERING ACTIVITIES TO ELIMINATE THE POTENTIAL FOR OFFSITE SEDIMENT TRANSPORT AND TO ENSURE THAT DIRECT DISCHARGE DOES

RELOCATION LEGEND VE st 8 51 \mathcal{B} SI Ò Z PINE SI R 5th

PROJECT # 232-6029960 5303 SURVEY # SEC./TWN./RGE 7/35S/18E SCALE 1"=100" DATE BY

PRINCIPLE OF THE DAY O PROFIES ORISING

RESTORATION

- . ALL RESTORATION WORK PERFORMED THROUGHOUT THE PROJECT SHALL CONFORM TO EXISTING LINES AND GRADES UNLESS SHOWN OTHERWISE.
- 2. ALL DISTURBED GRASSED AREAS SHALL BE SODDED. THE TYPE OF SOD USED TO REPLACE OWNER MAINTAINED AREAS IN RIGHT-OF-WAY SHALL BE COORDINATED WITH THE PROPERTY OWNER. ALL EXISTING SHRUBS, TREES, PLANTINGS AND OTHER VEGETATION, OUTSIDE OF RIGHT-OF-WAY DISTURBED DURING CONSTRUCTION SHALL BE REPLACED WITH EQUIVALENT MATERIAL BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- CONCRETE DRIVEWAYS OR SIDEWALKS THAT ARE CUT SHALL BE RESTORED TO MATCH EXISTING ACCORDING TO THE CURRENT EDITIONS OF THE F.D.O.T. SPECIFICATIONS FOR ROAD AND BRIDGE DESIGN, SECTION 522, AND SECTION 310 OF THE F.D.O.T. DESIGN STANDARDS LATEST REVISION.
 ALL CONCRETE THRUST BLOCKS INSTALLED FOR TESTING PURPOSES AND NOT REQUIRED FOR THE OPERATION OF THE PIPELINE SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR, PRIOR TO FINAL ACCEPTANCE, AT NO ADDITIONAL COST TO THE OWNER.
- 5. WHENEVER A PERMANENT ROADWAY SURFACE IS NOT PLACED IMMEDIATELY AFTER BACKFILLING AND COMPACTION OF THE NEWLY INSTALLED PIPE LINE IN AREAS WHERE TRAFFIC MUST PASS, THE CONTRACTOR SHALL INSTALL A TEMPORARY SURFACE CONSISTING OF NINE INCHES OF COMPACTED LIME ROCK BASE AND A COAT OF ASPHALT EMULSION. PERMANENT ROADWAY REPAIR SHALL BE PERFORMED A MAXIMUM OF TWENTY—ONE CALENDAR DAYS AFTER THE INITIAL OPEN CUTTING.
- RESTORATION OF CURBS, DRIVEWAYS, SIDEWALKS, AND PLACEMENT OF SOD SHALL BE COMPLETED WITHIN FORTY-FIVE CALENDAR DAYS OF INITIAL DISTURBANCE, OR TWENTY-ONE CALENDAR DAYS OF SUBSTANTIAL COMPLETION, WHICHEVER OCCURS FIRST.

- 7. THE EXHAUST SYSTEM OF ALL GASOLINE AND DIESEL ENGINES SHALL BE EQUIPPED WITH MUFFLERS THAT MEET THE EQUIPMENT MANUFACTURER'S REQUIREMENTS FOR NOISE SUPPRESSION. THE CONTRACTOR SHALL INSTALL NOISE ABATEMENT BAFFELS POSITIONED TO BREAK LINE—OF—SITE FROM THE NOISE SOURCE TO AFFECTED
- 8. NO MATERIAL SHALL BE STOCKPILED IN ROADWAYS. ALL DIRT AND DEBRIS SHALL BE REMOVED FROM THE JOB SITE DAILY. ROADS SHALL BE SWEPT DAILY AS PART OF DAILY CLEAN UP.
- THE CONTRACTOR IS TO CONTROL ALL FUGITIVE DUST ORIGINATING ON THIS PROJECT BY WATERING OR OTHER METHODS AS REQUIRED.
- 10. INGRESS AND EGRESS TO ALL THE PROPERTIES IN THE CONSTRUCTION AREA SHALL BE MAINTAINED AT
- PRIOR APPROVAL WILL BE REQUIRED FOR REMOVAL OF ANY TREE WITHIN THE CONSTRUCTION AREA, UNLESS OTHERWISE NOTED ON THE PLANS.
- 12. THE CONTRACTOR SHALL PROVIDE ALL DEWATERING EQUIPMENT NECESSARY TO KEEP ALL EXCAVATIONS DRY DEWATERING IS REQUIRED TO 18" BELOW TRENCH BOTTOM. THE CONTRACTOR SHALL SUBMIT DEWATERING PLAN TO DISTICT FOR APPROVAL PRIOR TO CONSTRUCTION.
- 13. ALL PIPING AND FITTINGS USED ON THIS PROJECT SHALL BE AS NOTED ON THE PLANS AND IN THE CONTRACT DOCUMENT AND SHALL BE INSTALLED TO THE UNES AND GRADES SHOWN ON THE PLANS AND PROFILES.
- 14. ALL PIPE SHALL BE COLOR CODED TO CONFORM TO MANATEE COUNTY STANDARDS.
- 15. ALL PIPE AND FITTINGS SHALL BE INSTALLED AS RECOMMENDED BY THE MANUFACTURER AND ALL PIPE JOINTS SHALL BE RESTRAINED WHERE REQUIRED.
- 16. ALL FITTINGS FOR PRESSURE CLASS—RATED PIPE SHALL BE RESTRAINED DUCTILE IRON. RESTRAINED LENGTHS OF PIPE SHALL ADHERE TO THE REQUIREMENTS AS SHOWN ON THE DETAIL SHEETS.
- 17. ALL PIPE LENGTHS ARE PLUS OR MINUS AND MAY BE ADJUSTED IN THE FIELD AS REQUIRED. PIPE MEASUREMENTS AND STATION OFFSETS ARE TO CENTER OF STRUCTURES OR FITTINGS. REFER TO DETAIL SHEET
- 18. ALL EXISTING MAINS THAT ARE BEING REPLACED SHALL BE ABANDONED IN PLACE UPON ACCEPTANCE AND ACTIVATION OF THE NEW MAINS, ABANDONED MAINS SHALL BE CUT, FILLED WITH GROUT, AND CAPPED. REFER TO SECTION 02064 OF THE SPECIFICATIONS FOR GROUTING OF ABANDONED PIPE.
- 19. WATER MAINS CROSSING OVER OR UNDER SANITARY SEWERS, FORCE MAINS, AND RECLAIMED WATER LINES SHALL BE LAID PER CURRENT EDITION OF "10 STATE STANDARDS" AND MANATEE COUNTY UTILITY STANDARDS UNLESS NOTED OTHERWISE ON THE PLANS.
- 20. FIELD CONDITIONS MAY NECESSITATE MINOR ALIGNMENT AND GRADE DEVIATION OF THE PROPOSED UTILITIES TO AVOID OBSTACLES, AS ORDERED BY THE ENGINEER.
- 21. CONTRACTOR SHALL PROVIDE RECORD DRAWINGS IN ACCORDANCE WITH SECTION 14 IN THE CURRENT MANATEE COUNTY UTILITY STANDARDS AT NO COST TO THE OWNER. RECORD DRAWINGS SHALL BE SIGNED & SEALED BY A SURVEYOR CURRENTLY LICENSED BY THE STATE OF FLORIDA, ALL RECORD DRAWING INFORMATION REQUIREMENTS IN SECTION 14 SHALL BE STRICTLY ENFORCED. A COPY OF SECTION 14 WILL BE PROVIDED
- 22. ALL ROCKS OR STONES LARGER THAN SIX INCH DIAMETER SHALL BE REMOVED FROM THE BACKFILL MATERIAL. BACKFILL MATERIAL PLACED WITHIN ONE FOOT OF PIPING AND APPURTENANCES SHALL NOT CONTAIN ANY STONES LARGER THAN TWO INCH DIAMETER.
- 23. ALL PENETRATION OF EXISTING STRUCTURES SHALL BE BY THE MECHANICAL ROTARY CORE BORING METHOD.
- 24. ALL CONCRETE AND REBAR PENETRATED OR DISTURBED SHALL BE COATED WITH TWO COATS OF EPOXY.
- 25. CONTRACTOR IS RESPONSIBLE FOR ALL UNSUITABLE MATERIAL REMOVAL WITHIN PROJECT LIMITS. EXCAVATION, EMBANKMENT, INCLUDING UTILIZATION, AND UNSUITABLE MATERIAL REMOVAL SHALL BE IN ACCORDANCE WITH FDOT DESIGN STANDARDS, LATEST VERSION.
- 26. WHERE EXCAVATION IS REQUIRED FOR CONSTRUCTION OF SIDEWALK, ALL STUMPS, ROOTS, ETC. SHALL BE REMOVED COMPLETELY FROM THE SIDEWALK AREA. ALL STUMPS WITHIN THE PROJECT LIMITS SHALL BE REMOVED COMPLETELY AND REPLACED WITH COMPACTED BACKFILL BEFORE THE AREA IS FILLED. TREE ROOTS IN AREA OF PROPOSED SIDEWALK, RAMP, OR DRIVEWAY REPLACEMENT SHALL BE GROUND OUT TO A DEPTH OF 8" BELOW BOTTOM OF NEW SIDEWALK OR DRIVEWAY. ALL PRUNED ROOT DEBRIS SHALL BE REMOVED FROM THE SUB-BASE MATERIAL, PRIOR TO POURING CONCRETE, ASPHALT, OR APPLICATION OF OTHER SPECIFIED MATERIALS. THIS WORK SHALL BE INCLUDED IN AND PAID FOR UNDER THE PAY ITEM FOR CLEARING AND CRUIDEDING.
- 27. ALL STUMPS, ROOTS, AND OTHER DEBRIS PROJECTING THROUGH OR APPEARING ON THE SURFACE OF THE GROUND SHALL BE REMOVED TO A DEPTH OF 1-FOOT BELOW THE COMPLETED SURFACE. THIS WORK SHALL BE INCLUDED IN AND PAID FOR UNDER THE PAY ITEM FOR CLEARING AND GRUBBING.
- 28. ALL MATERIALS NOT CLAIMED BY THE COUNTY SHALL BECOME PROPERTY OF THE CONTRACTOR, AND SHALL BE DISPOSED OF BY THE CONTRACTOR IN AREAS PROVIDED BY THE CONTRACTOR. THIS WORK SHALL BE INCLUDED IN AND PAID UNDER THE PAY TIEM CLEARING AND GRUBBING.
- 29. THE CONTRACTOR SHALL PROVIDE ALL SHEETING, SHORING, AND BRACING REQUIRED TO PROTECT ADJACENT STRUCTURES OR TO MINIMIZE TRENCH WIDTH. WHERE A SEPARATE PAY ITEM IS NOT PROVIDED, THE COST OF ALL SHEETING, SHORING, AND BRACING REQUIRED SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE ITEM OF WORK FOR WHICH SHEETING, SHORING, AND BRACING IS REQUIRED.
- 30. THE CONTRACTOR SHALL DISTURB NO MORE GROUND THAN WHAT IS NECESSARY FOR CONSTRUCTION. NO OPEN EXCAVATED TRENCH, OR OTHER UNSAFE CONDITION WILL BE LEFT OVERNIGHT. ALL WORK SITES WILL BE COMPLETELY RESTORED WITHIN SEVEN (7) CALENDAR DAYS OF THE CONCRETE POUR FOR SIDEWALK.THE INTENT OF THIS PROVISION IS TO "SAFE-UP" THE PROJECT SITE AS WORK PROGRESSES, AND SHALL INCLUDE REMOVING FORMS, FILLING HOLES, GRADING, AND REMOVAL OF DEBRIS.
- 31. ALL EXISTING SIGNS WITHIN THE PROJECT LIMITS SHALL REMAIN UNLESS OTHERWISE NOTED IN THE PLANS, OR AS DIRECTED BY THE ENGINEER.

- 32. ANY EXISTING SIGN TO REMAIN THAT IS DISTURBED OR RELOCATED DURING CONSTRUCTION SHALL BE RESET TO CURRENT STANDARDS FOR HEIGHT, OFFSET, AND METHOD OF INSTALLATION AT NO ADDITIONAL COST TO THE COUNTY.
- 33. ALL EXISTING SWALES NOT DESIGNATED FOR RECONSTRUCTION SHALL BE REGRADED TO PROMOTE POSITIVE DRAINAGE AND MATCH PROPOSED CENTERLINE SWALE ELEVATION AND ALIGNMENT.
- 34. ALL STORM DRAINS AND STRUCTURES TO REMAIN SHALL BE CLEANED OF DEBRIS, DIRT. VEGETATION AND OTHER MATERIAL. STORM SEWER INLETS SHALL BE MODIFIED (RAISED/LOWERED) TO MATCH PROPOSED FINISHED GRADE.
- 35. ALL EXISTING FENCES DISTURBED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED AND REINSTALLED BY THE CONTRACTOR AT NO ADDITIONAL COST. (EXISTING FENCES WITHIN R/W TAKING LIMITS SHALL BE RECONSTRUCTED TO THE NEW R/W LINE AND ARE TO BE REIMBURSED UNDER THE MISCELLANEOUS BID ITEM).
- 36. ALL EXISTING TREES LOCATED WITHIN R/W LIMITS SHALL BE REMOVED UNLESS OTHERWISE NOTED.
- 37. ALL EXISTING STORM DRAINAGE STRUCTURES SHALL REMAIN UNLESS OTHERWISE NOTED ON DEMOLITION PLAN.
- 38. ALL EXISTING BUILDINGS SHALL REMAIN UNLESS OTHERWISE NOTED.
- 39. REMOVE AND REPLACE BASE AND SUB-BASE ACCORDING TO FDOT STANDARDS

CONTACTS

PUBLIC WORKS DEPT.
INFRASTRUCTURE ENGINEERING
WAYNE TROXLER, P.E. 1022 26TH AVENUE EAST BRADENTON, FL. 34208 (941) 708-7450 EXT. 7650 FAX: (941) 708-7431

TECO/PEOPLES GAS CO. DAN SHANAHAN B261 VICO COURT SARASOTA, FL. 34240 (941) 342-4030 FAX: (941) 342-4011 EMERGENCY: 1-877-832-6911

SUNSHINE STATE ONE CALL OF FLORIDA 1-(800) 432-4770

VERIZON FLORIDA INC. WAYNE SUMNER 1701 RINGLING BLVD. SARASOTA, FL. 34236 (941) 330-9203 WAYNE.SUMNER@verizon.com

FLORIDA POWER & LIGHT DISTRIBUTION
GREG COKER
1253 12TH AVENUE EAST PALMETTO, FL 34221 (941) 723-4430 FAX: (941) 723-4444 EMERGENCY: 1-800-4-OUTAGE

FLORIDA POWER & LIGHT TRANSMISSION PETER H. WASHIO 700 UNIVERSE BLVD. TS4/JW JUNO BEACH, FL. 33408 Peter.H.Washio fpl.com

MANATEE COUNTY HEALTH DEPT. HANS C. ROESE 410 8th AVENUE EAST BRADENTON, FL. 34208 (941) 748-0747 EXT. 1342 FAX: (941) 750-9364 hans_rosse9doh.state.fl.us

SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT SARASOTA SERVICE OFFICE DARYL R. FLATT, P.E. 6750 FRUITVILLE ROAD SARASOTA, FL. 34240 (941) 377-3722 FAX: (941) 373-7660

FLORIDA GAS TRANSMISSION SAFETY HARBOR TEAM 7804 ANDERSON RD. TAMPA, FL. 33634 CHRIS LEE (813) 466-3327 CELL: (727) 639-7512 christopher.lee@sug.com

BRIGHT HOUSE NETWORKS TOM WRIGHT 5413 E. STATE ROAD 64 BRADENTON, FL. 34208-5535 (941) 748-3816 EXT. 21348

DEPARTMENT OF ENVIRONMENTAL PROTECTION
STEPHANIE BARIOS
13051 N. TELECOM PKWY
TEMPLE TERRACE, FL 33637
PHONE: (813) 632–7600, EXT. FAX: (813) 632-7662

PEACE RIVER ELECTRIC COOPERATIVE, INC. P.O. BOX 1310 WACHULA, FL 33873 KENDELL COKER (863) 767-4660 kendell.coker@preco.coop

MANATEE COUNTY PUBLIC WORK DEPT.
TRAFFIC ENGINEERING
PAUL VILLALUZ, P.E.
(941) 749-3500 EXT. 7859 FAX: (941) 749-3571

LEGEND

			_	
-	ð	BENCH MARK	Ω	BUSH
	•	CONCRETE MONUMENT	•	TREE
	•	IRON PIPE	63	OAK TREE
	•	IRON ROD	*	PALM TREE
	٠	HUB	*	PINE TREE
	٠	NAIL & DISK	nim	EDGE OF VEGETATION
تمير	•	ELEVATION		- CHAIN LINK FENCE
•		PARCEL ID NO.		- WOOD FENCE
		PARCEL ID NO.	<u> </u>	- BARBED WIRE FENCE
0		LOT NO.	<u> </u>	- FORCE MAIN
6	-	GUY WIRE		— POTABLE WATER
•	•	POWER POLE		— RECLAIMED WATER
		LIGHT POLE		- Sanitary Sewer
		MAIL BOX		- STORM DRAIN
	d	SIGN		- GAS LINE
-	•	REFLECTOR		OVERHEAD_CABLE_TV
	•	SPRINKLER		BURIED_CABLE_TV
	9	CAS WARKER	a_	- OVERHEAD ELECTRIC
		BACKFLOW PREVENTER	ĸ	- BURIED_ELECTRIC
E	**	BLOW OFF VALVE	DMD:	- OVERHEAD VERIZON
- •	Ş	FIRE HYDRANT	— ac —	- BURIED VERIZON
	-	WATER VALVE		— VERIZON
•	Ð	AIR RELEASE VALVE	w	- BURIED_UTILITY
		WATER METER		- OVERHEAD UTILITY
	_	SANITARY SEWER MANHOLE		RAIL ROAD TRACKS
		SANITARY SEWER CLEAN OUT		- EDGE OF CONCRETE
SB# ←	•	SOIL BORING LOCATION		- EDGE OF ROAD
TEL @	10	TELEPHONE SERVICE BOX		TOE OF SLOPE
\blacksquare		FLOW DIRECTION		TOP OF BANK
	_	GRATE INLET		- PROPERTY LINE
	1	MITERED END SECTION		-RIGHT OF WAY

EXISTING

ABBREVIATIONS ASPHALT SWK SIDEWALK BACK OF CURB

PROPOSED

- SERVICE LINE PROPOSED EASEMENT A FIRE HYDRANT SANITARY SEWER MANHOLE BLOW OFF ASSEMBLY REDUCER TEE HDRIZONTAL BEND VERTICAL BEND

HOLE IIII

MASTER METER ASSEMBLY TO SERVICE LINE & METER TO DOUBLE SERVICE

1022 26th Avenue East nton, FL 34208

MANATEE COUNTY, FLORIDA PUBLIC WORKS DEPARTMENT ENGINEERING SERVICES

> ATION LEGEND P VE LOC ⋖ st 8 RE 51 TES B SI Ó ST PINE GENERAL H ST AND 5th

PROJECT # 232-5029960 SURVEY # 5303 SEC./TWN./RGE 7/35S/18E 1"=100" SCALE

SCALE 1"-100"

DATE

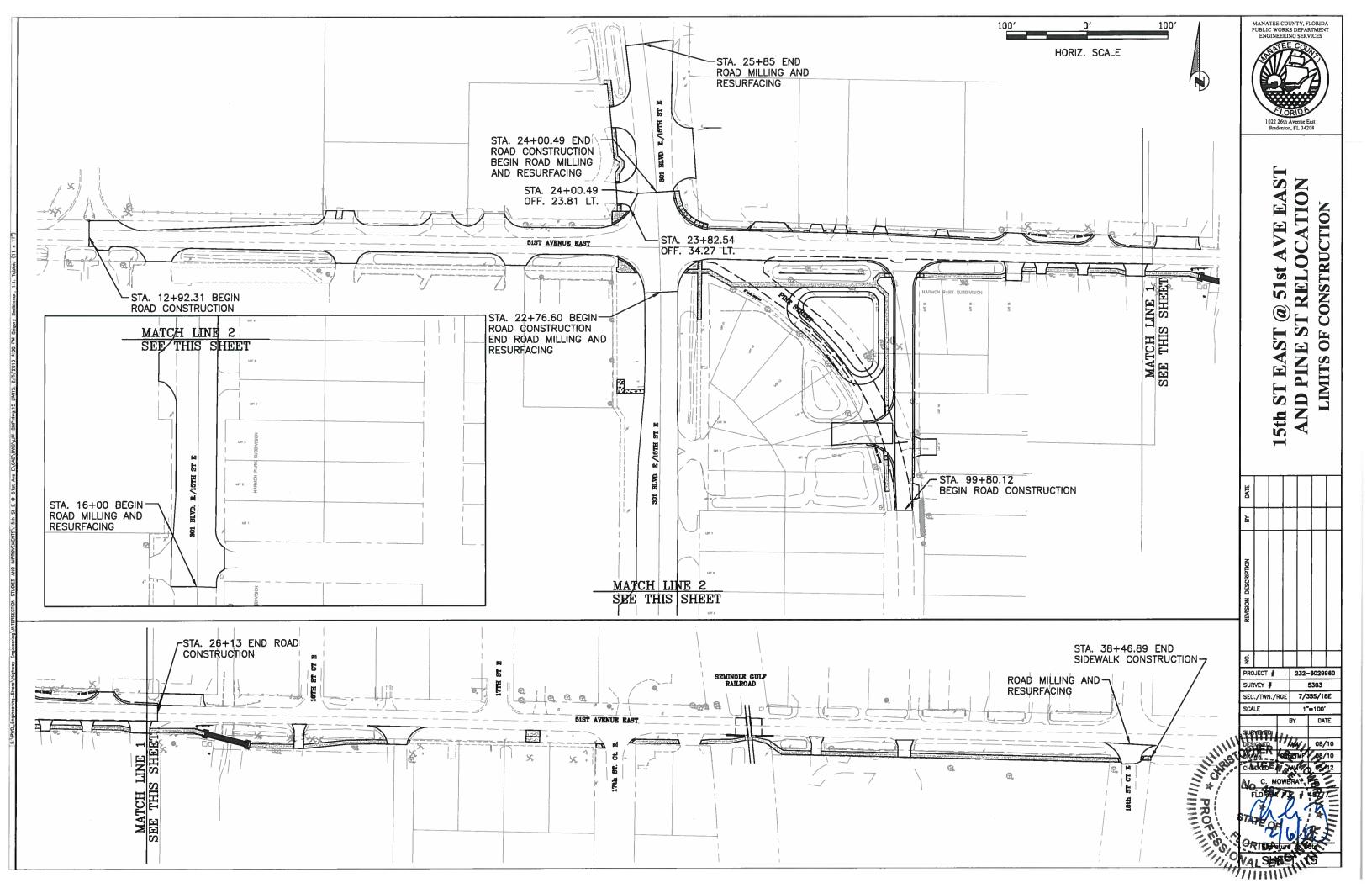
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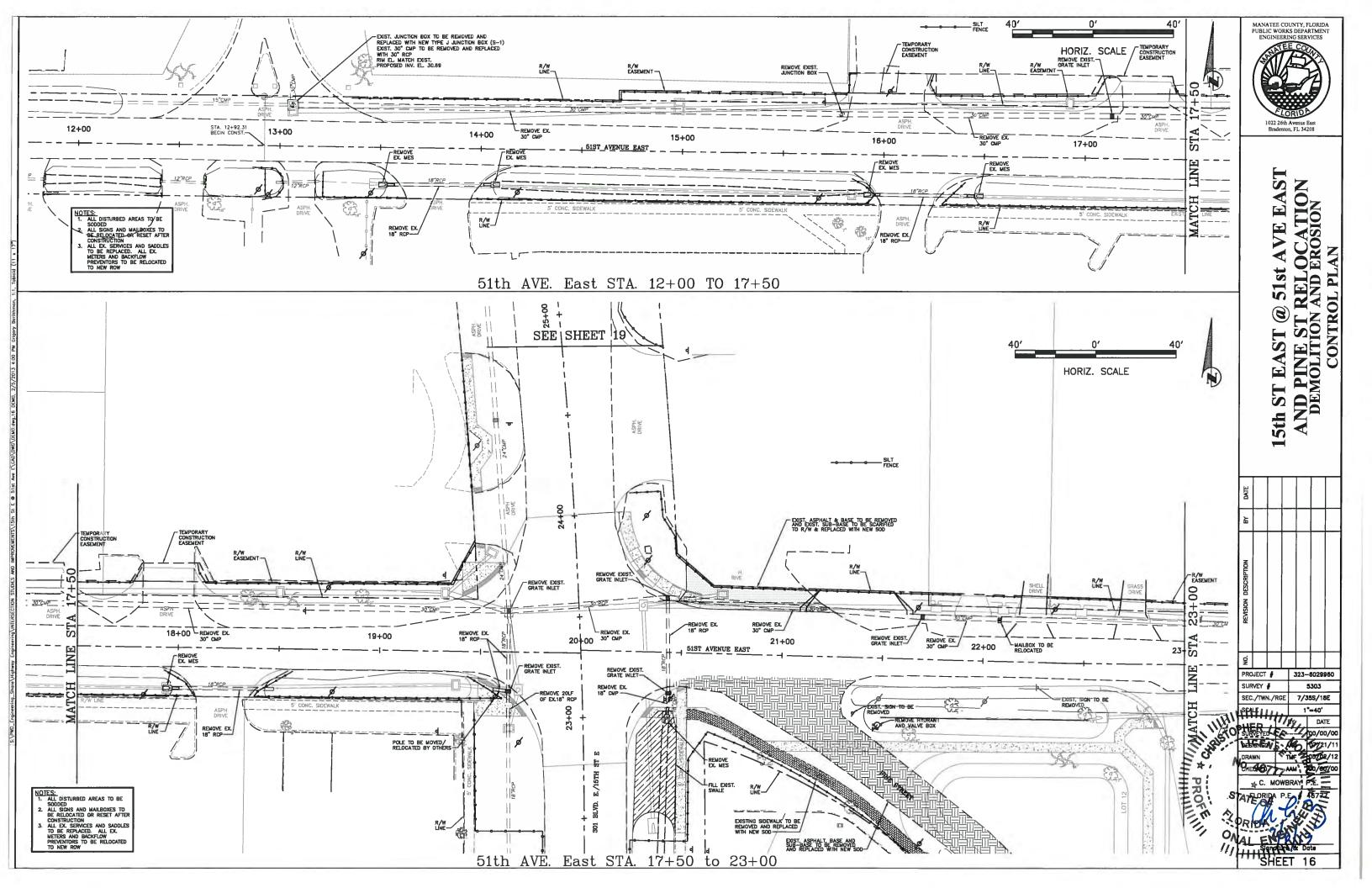
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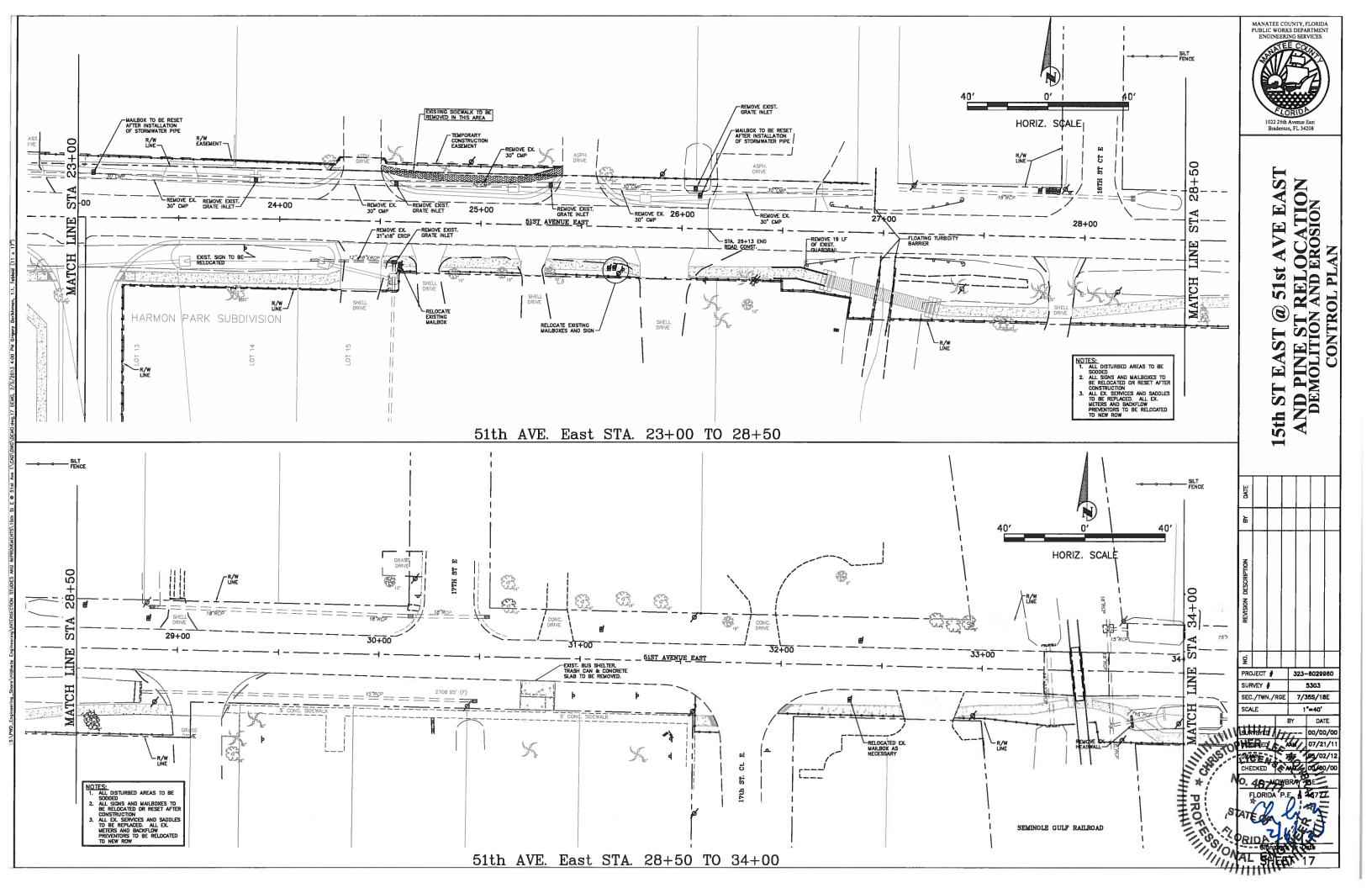
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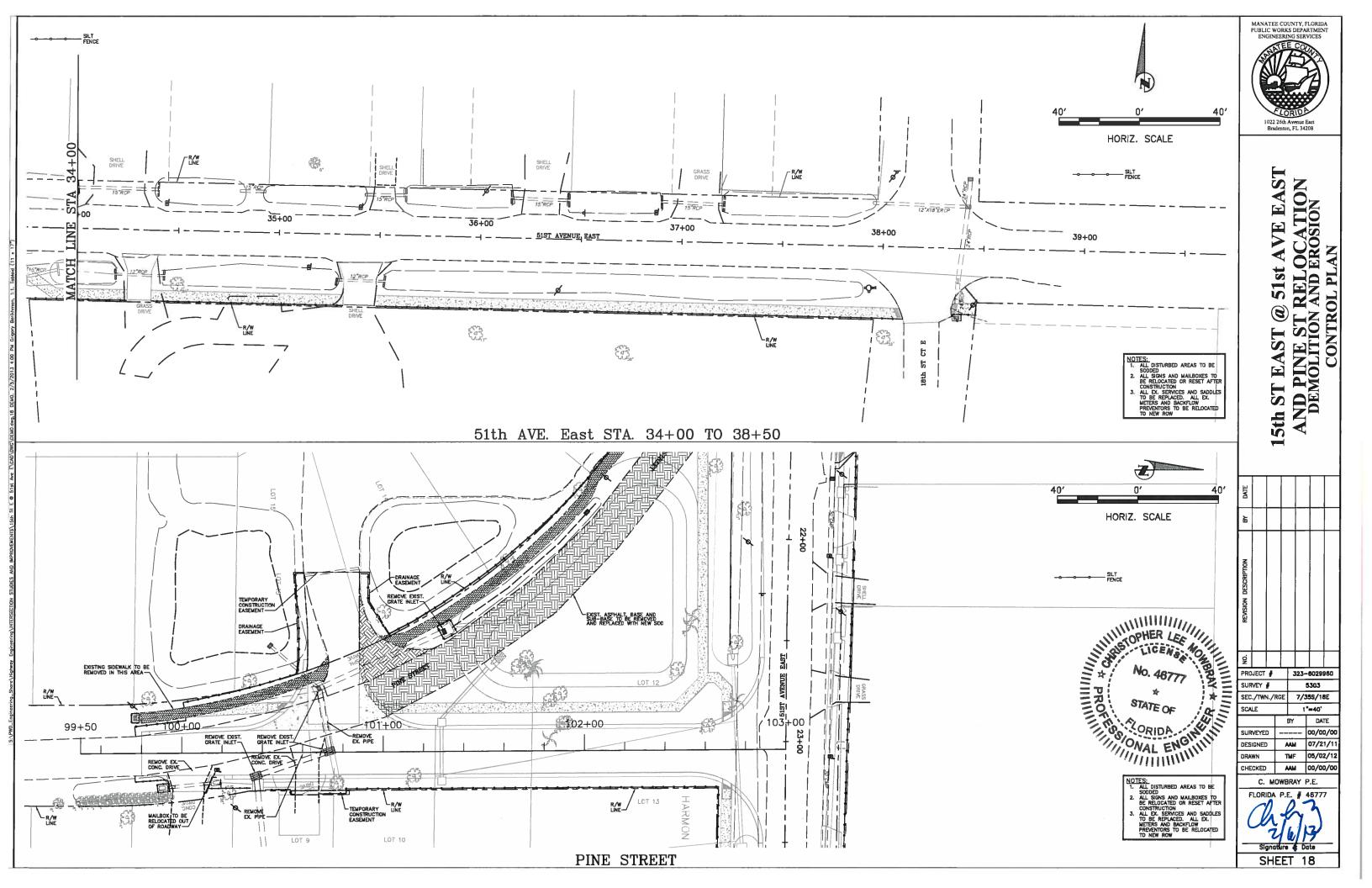
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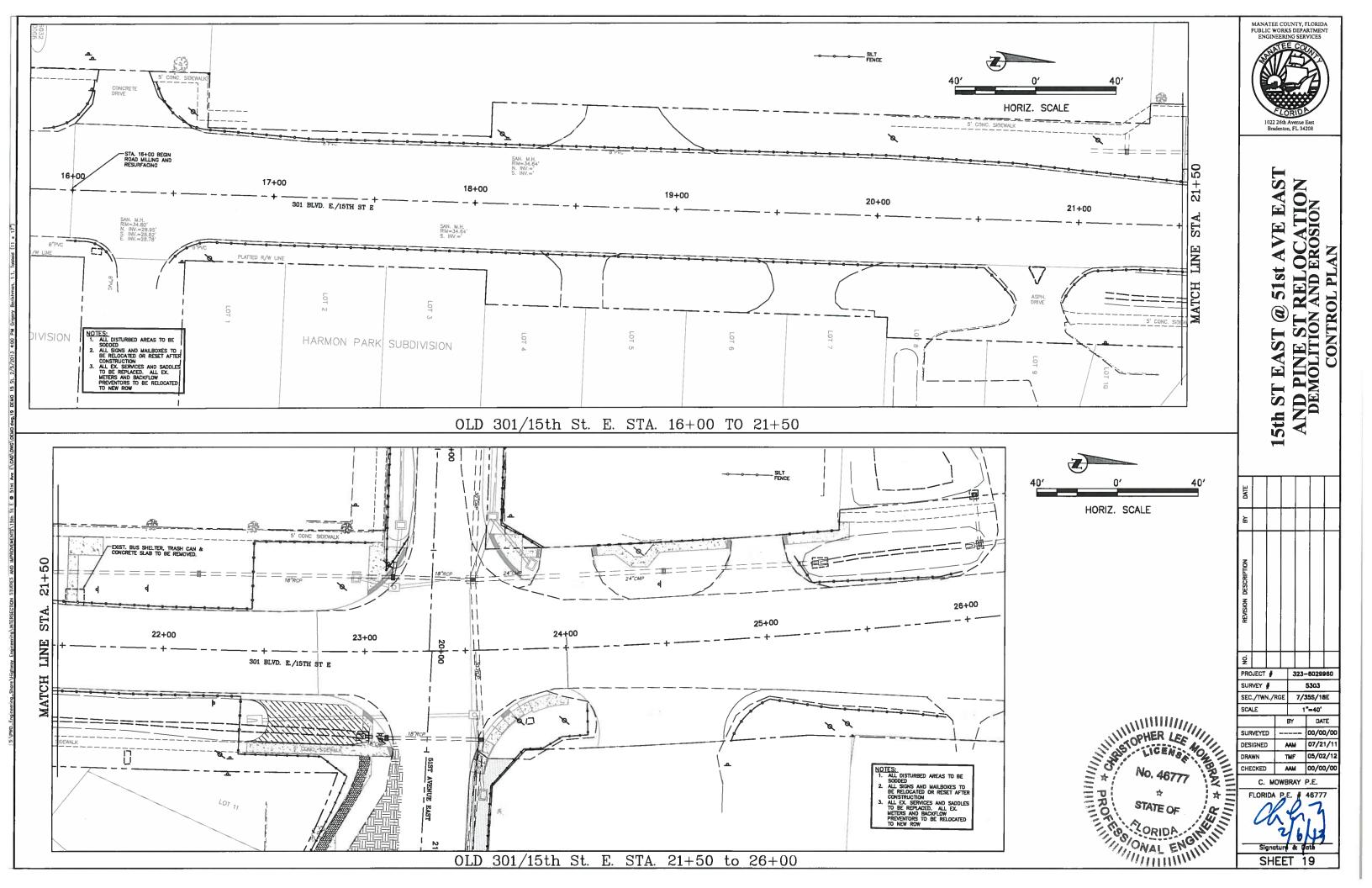
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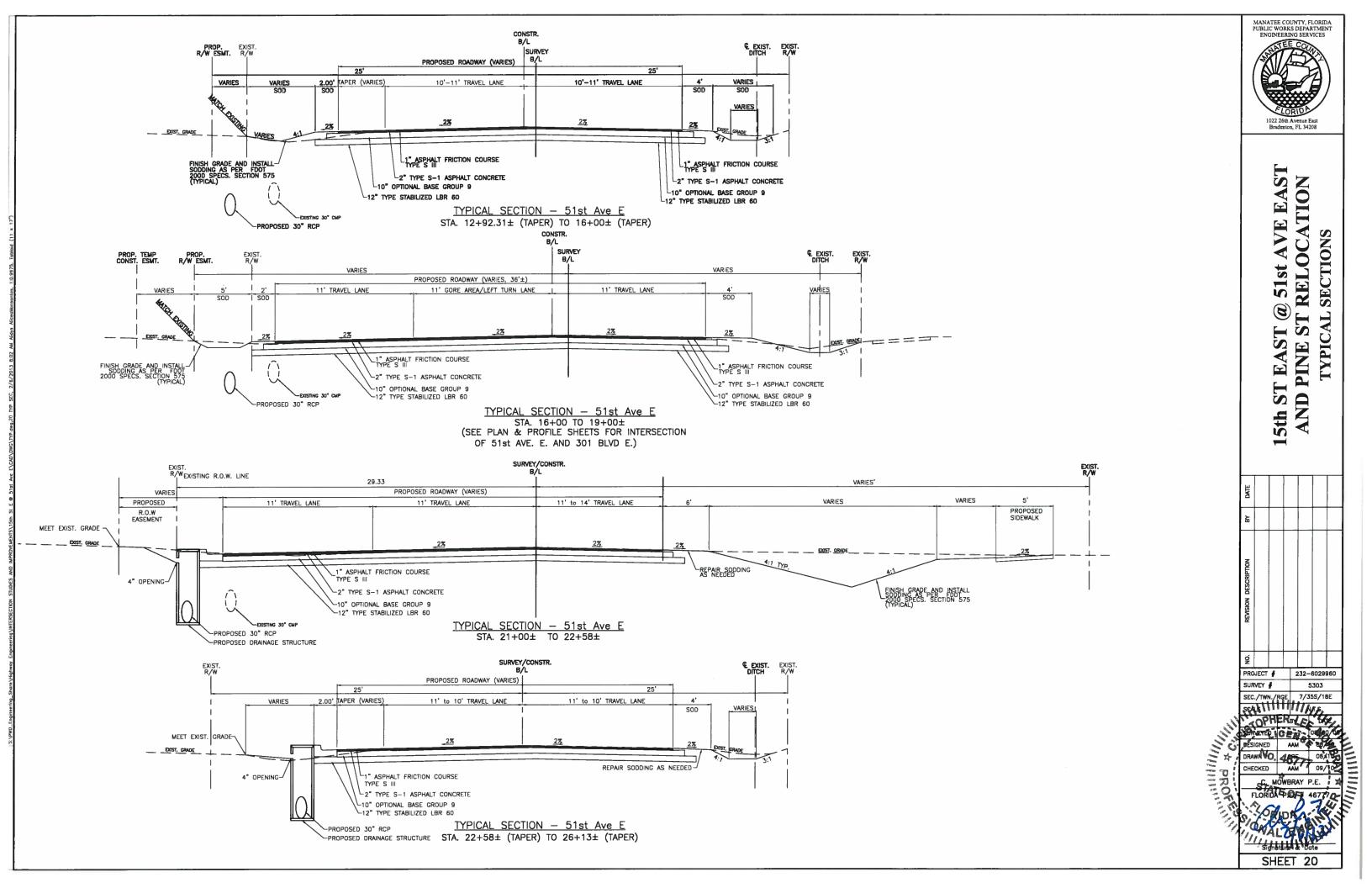


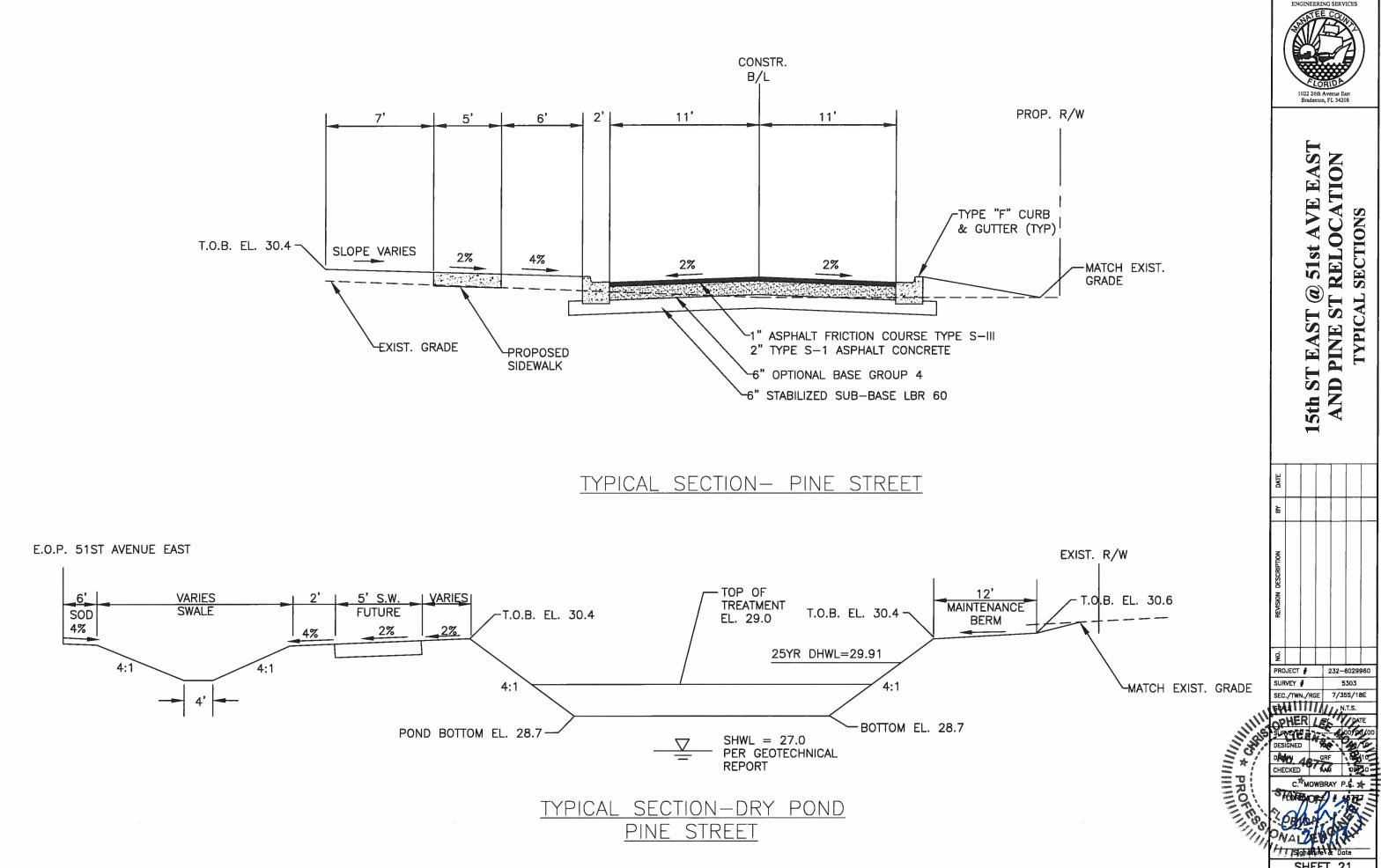




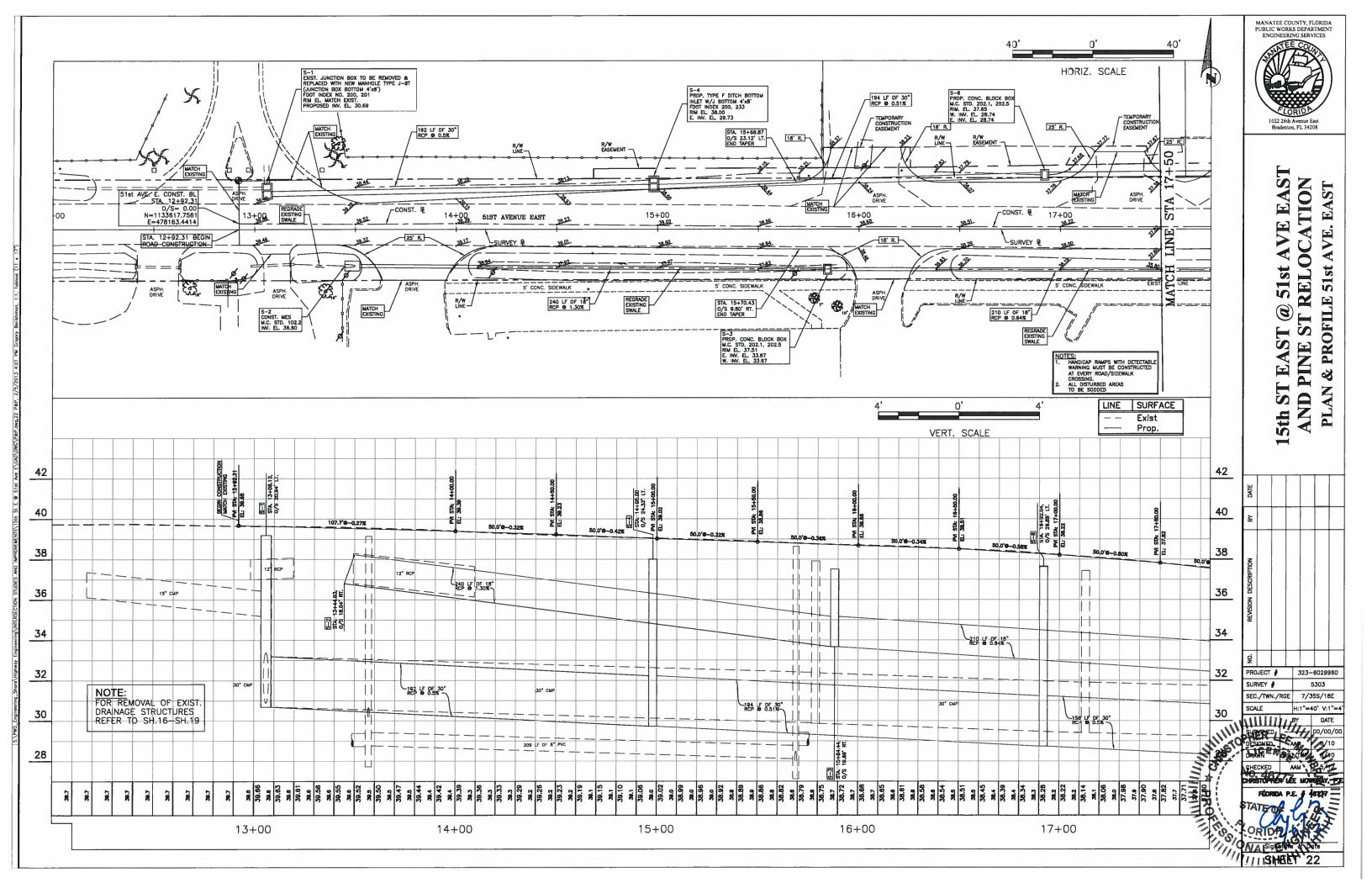


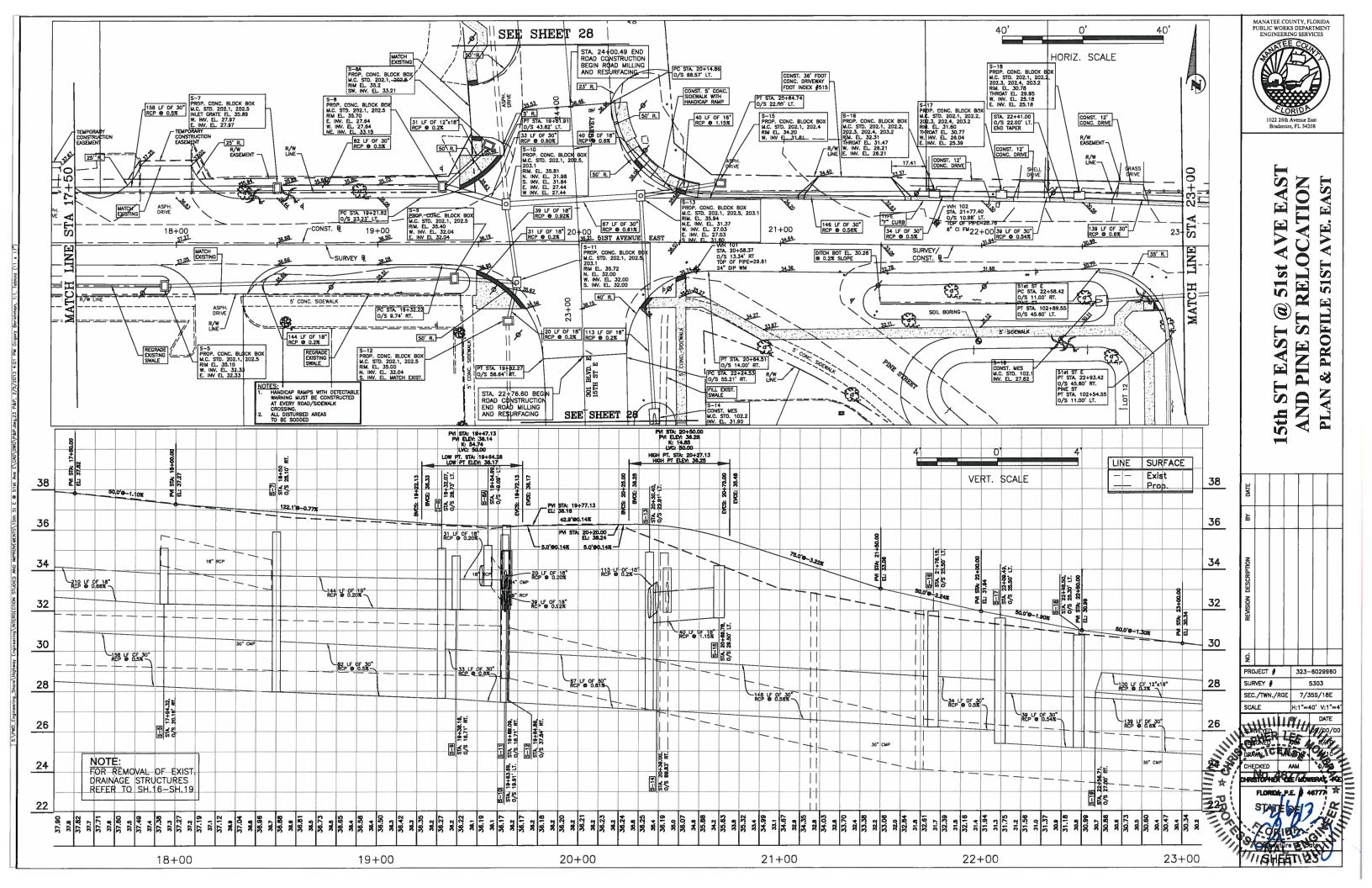


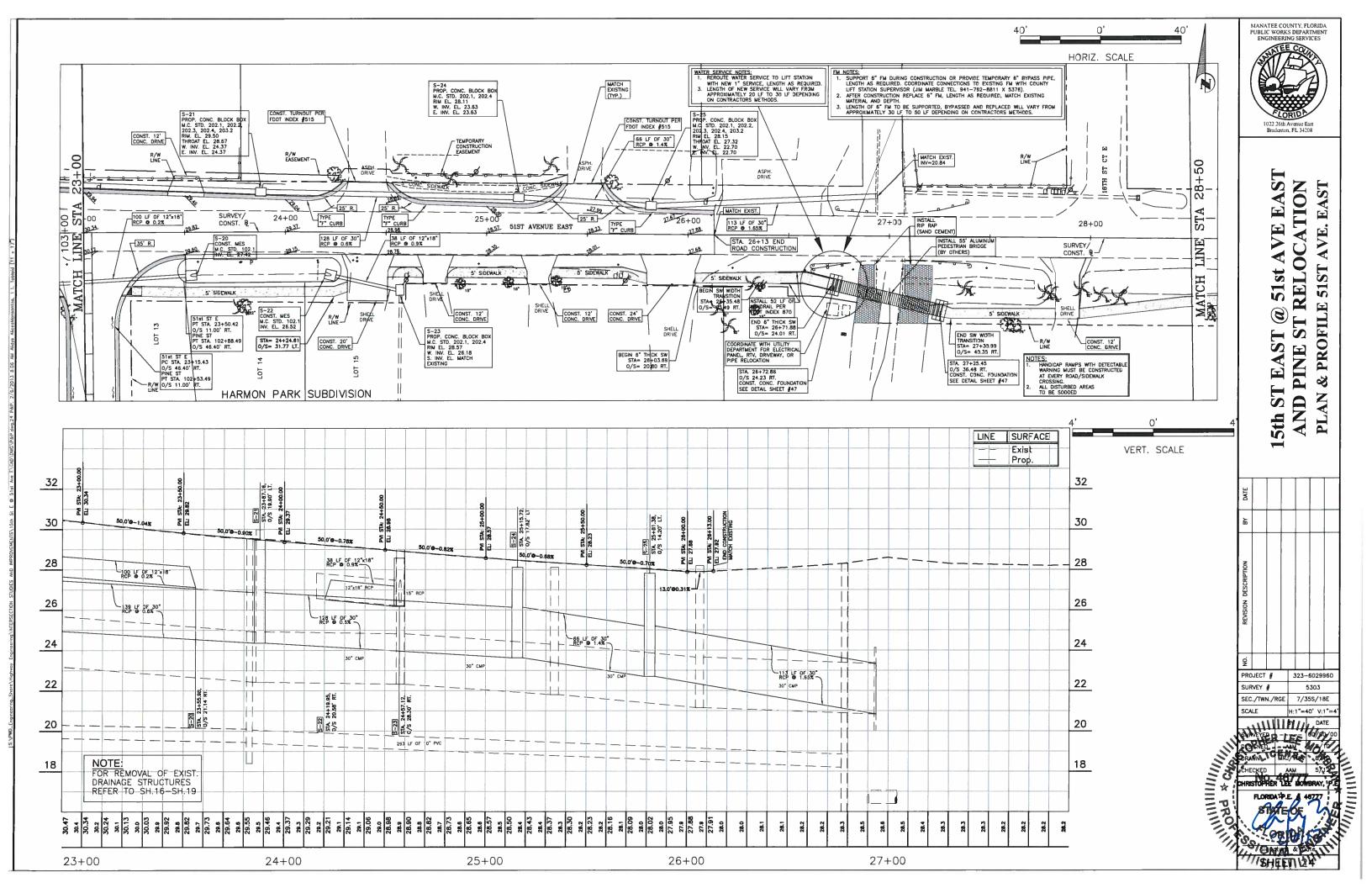


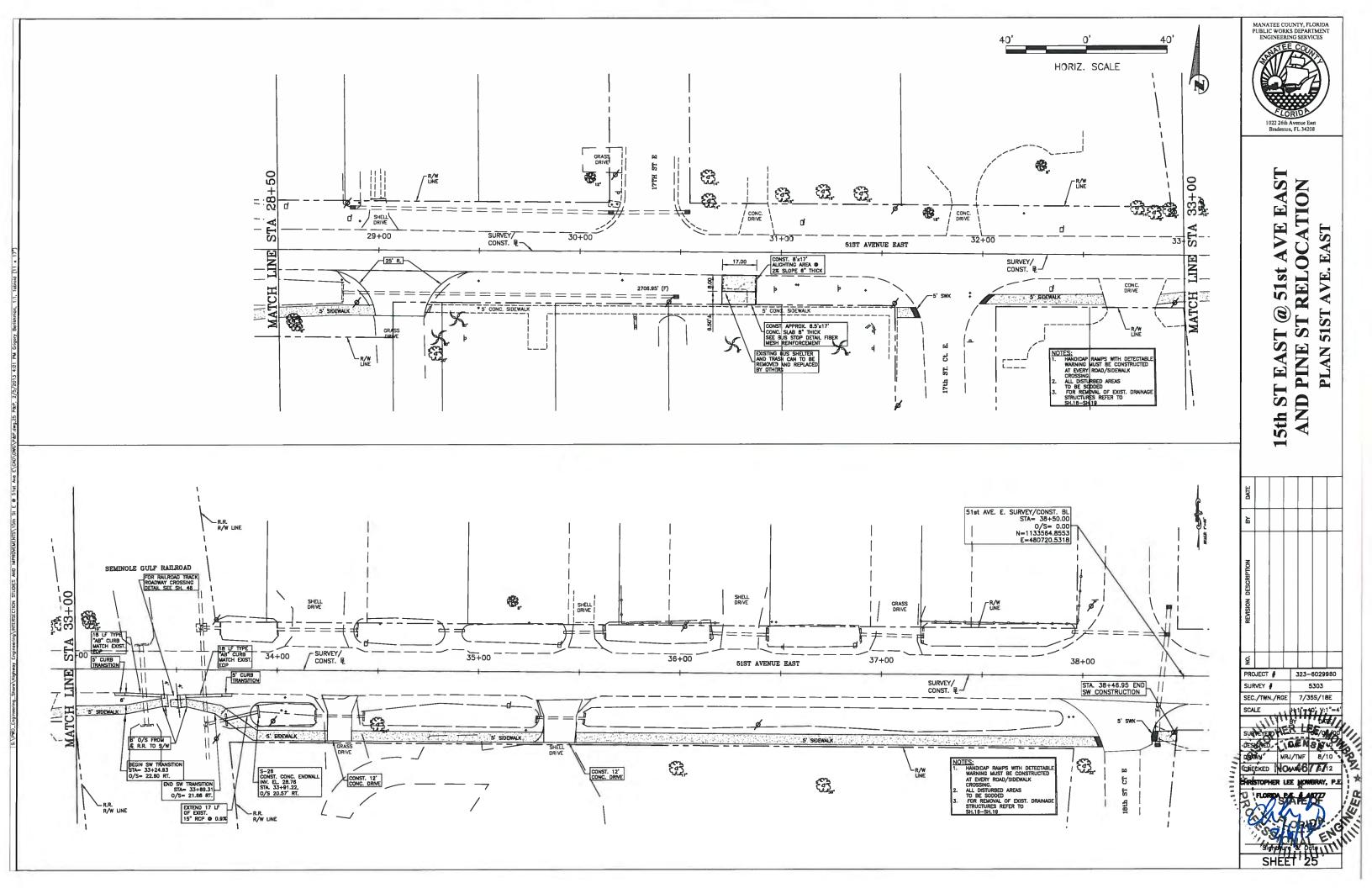


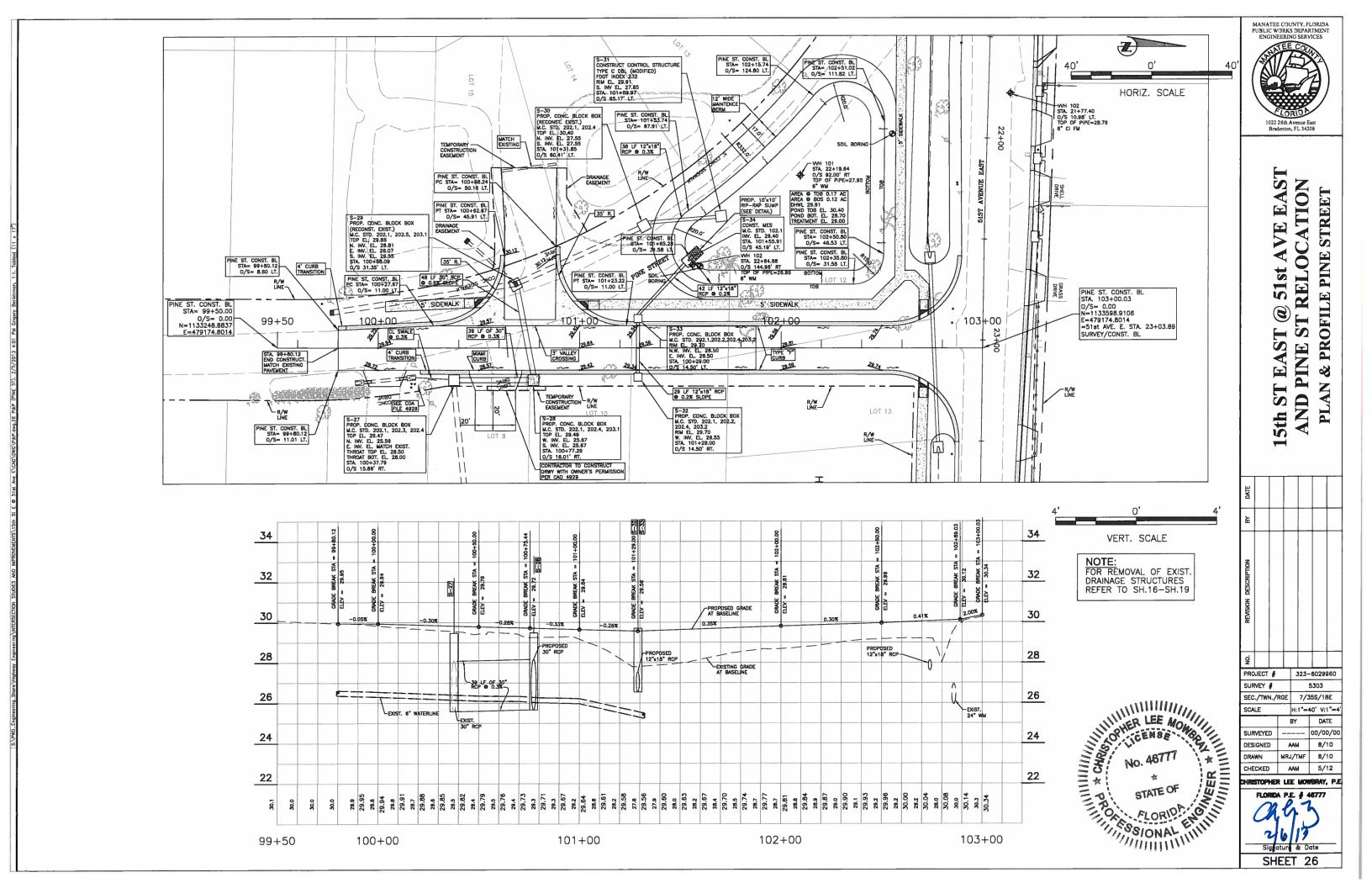
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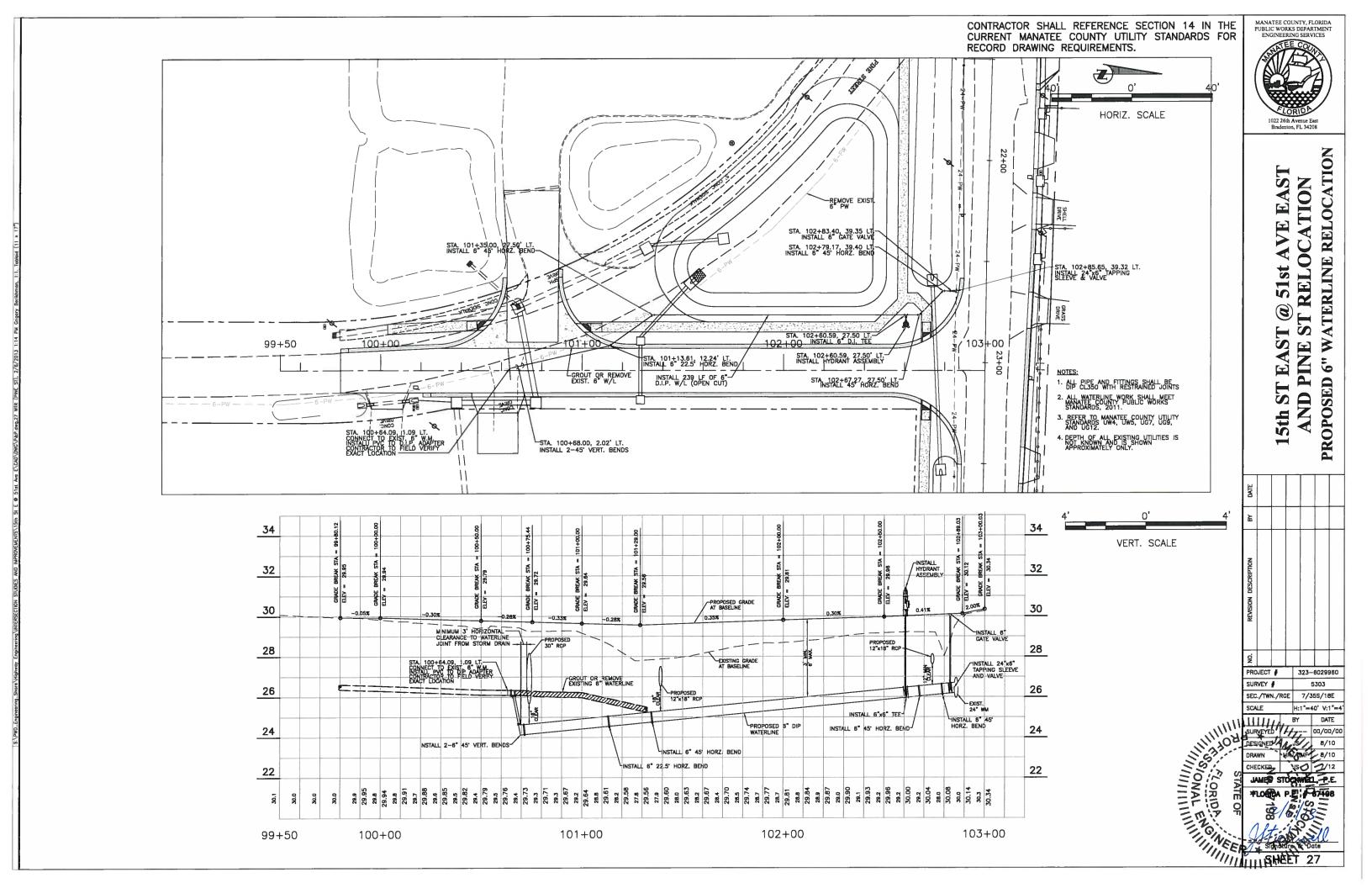


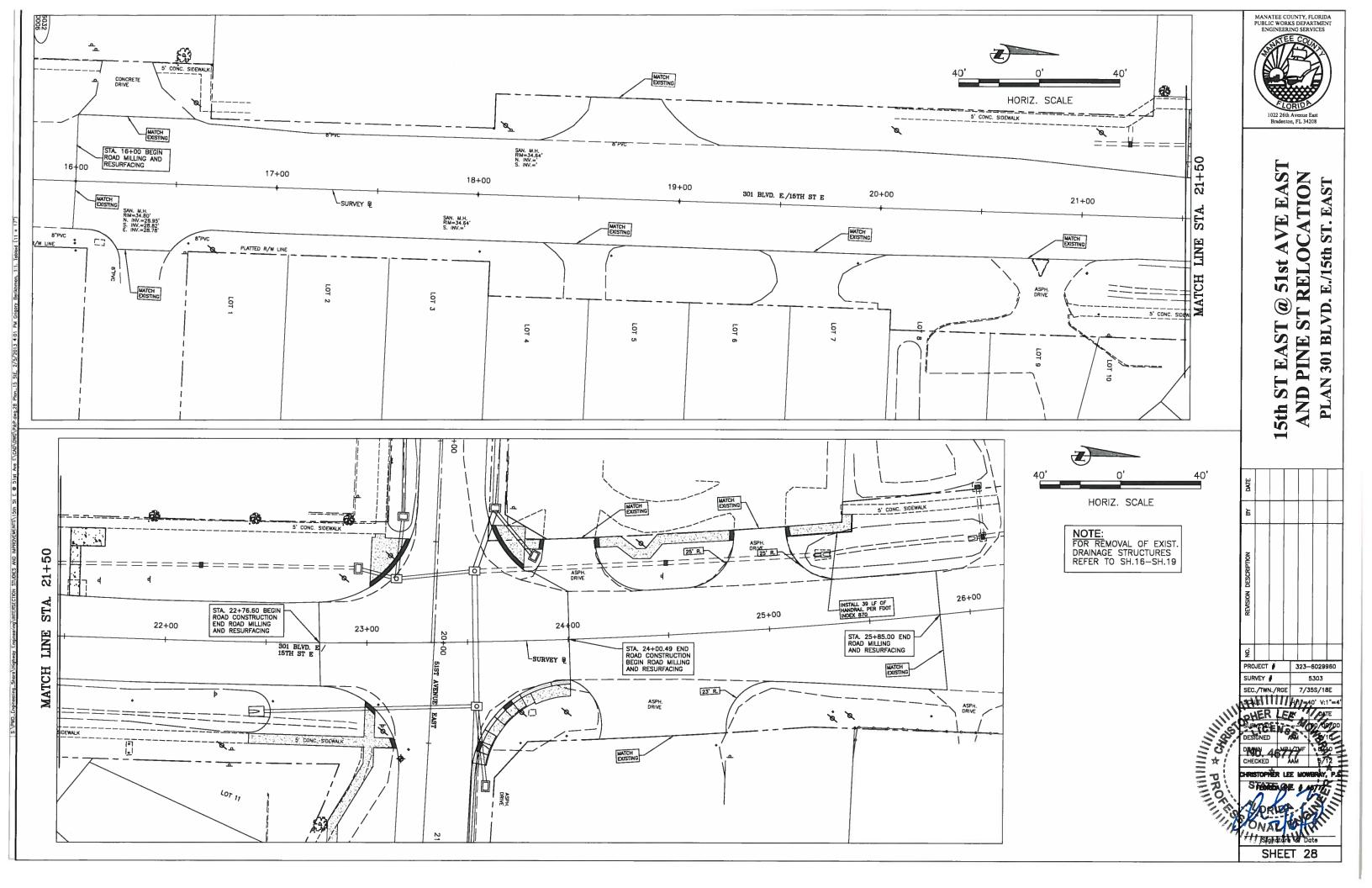


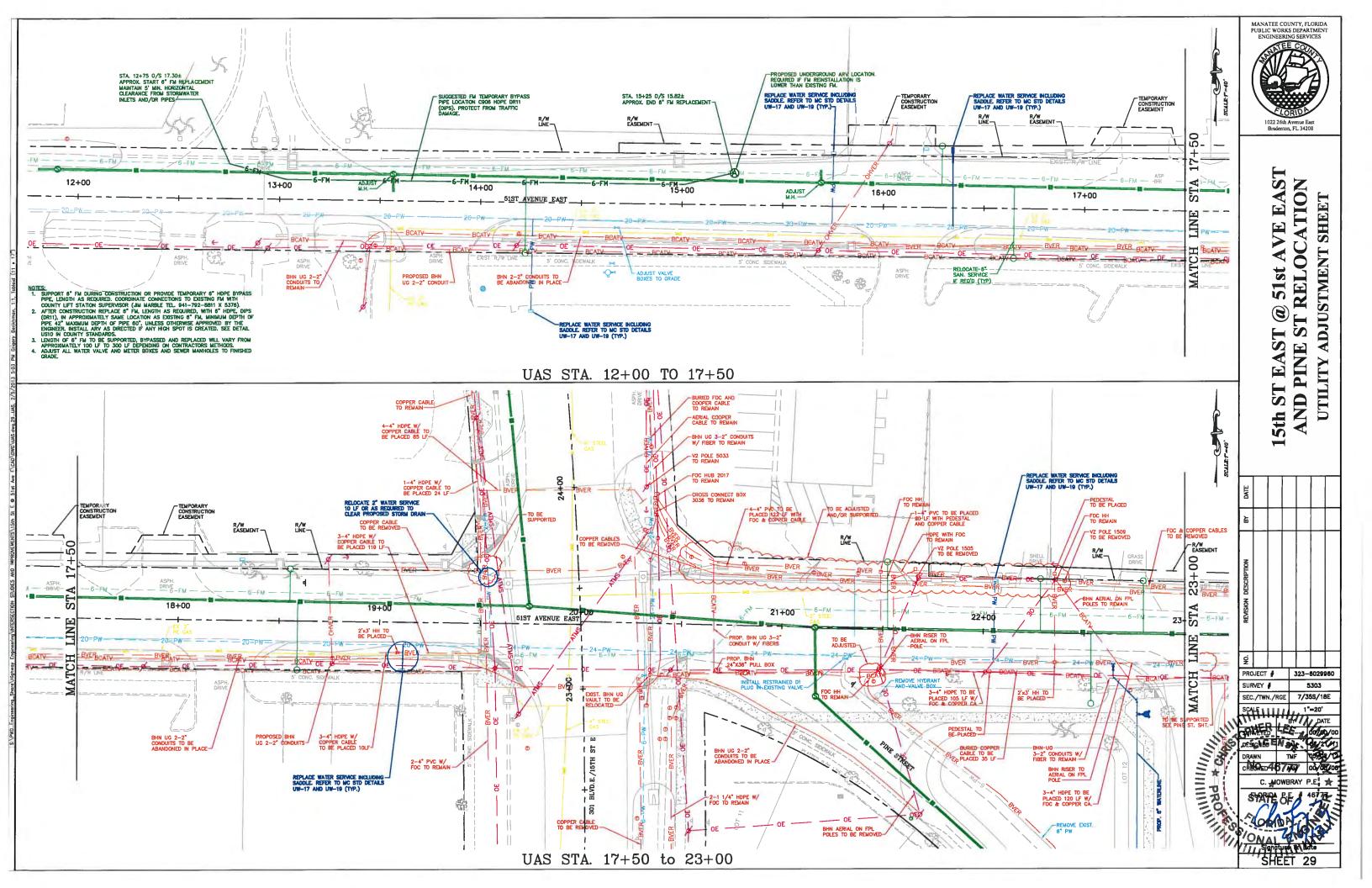


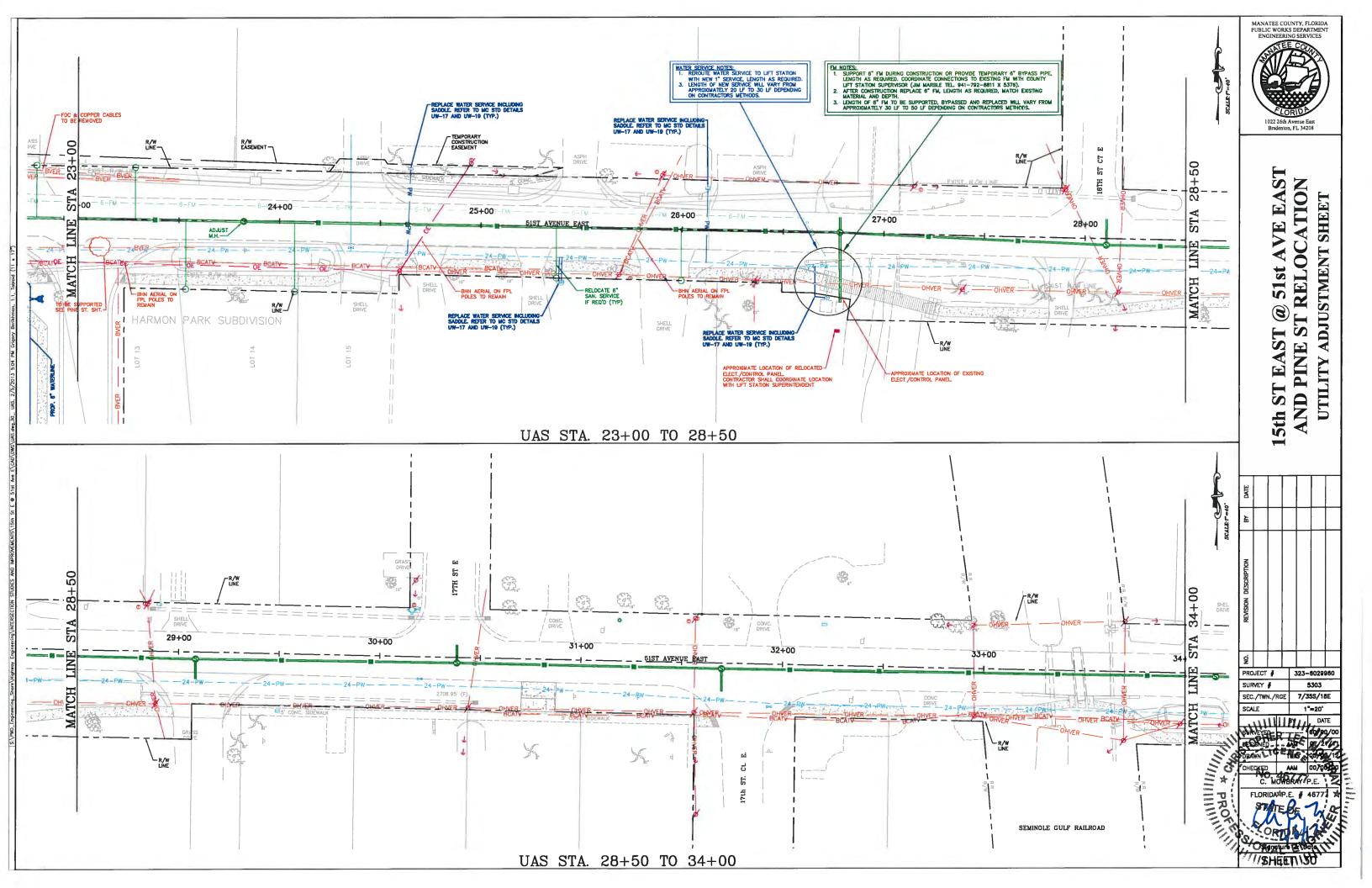


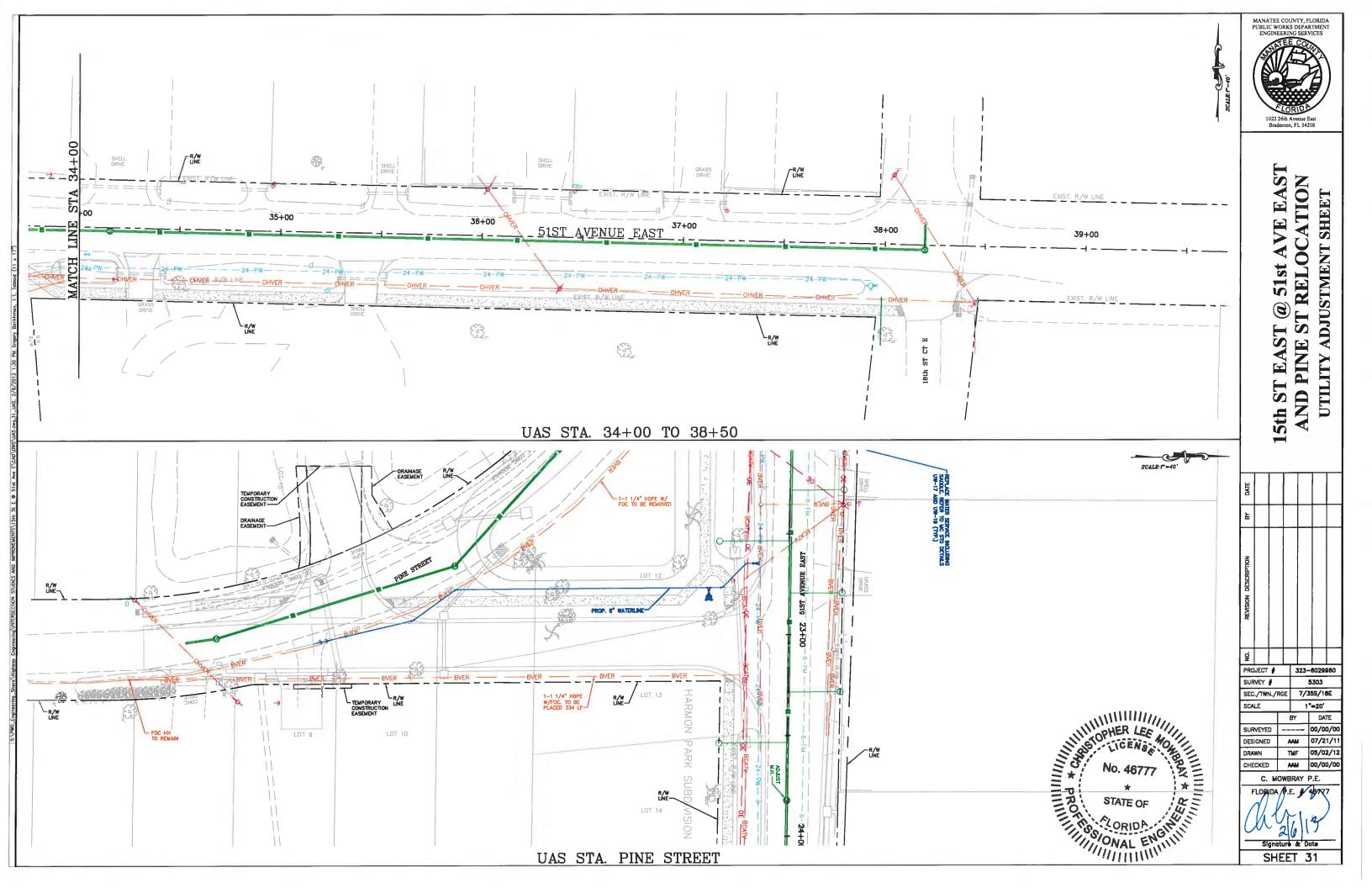


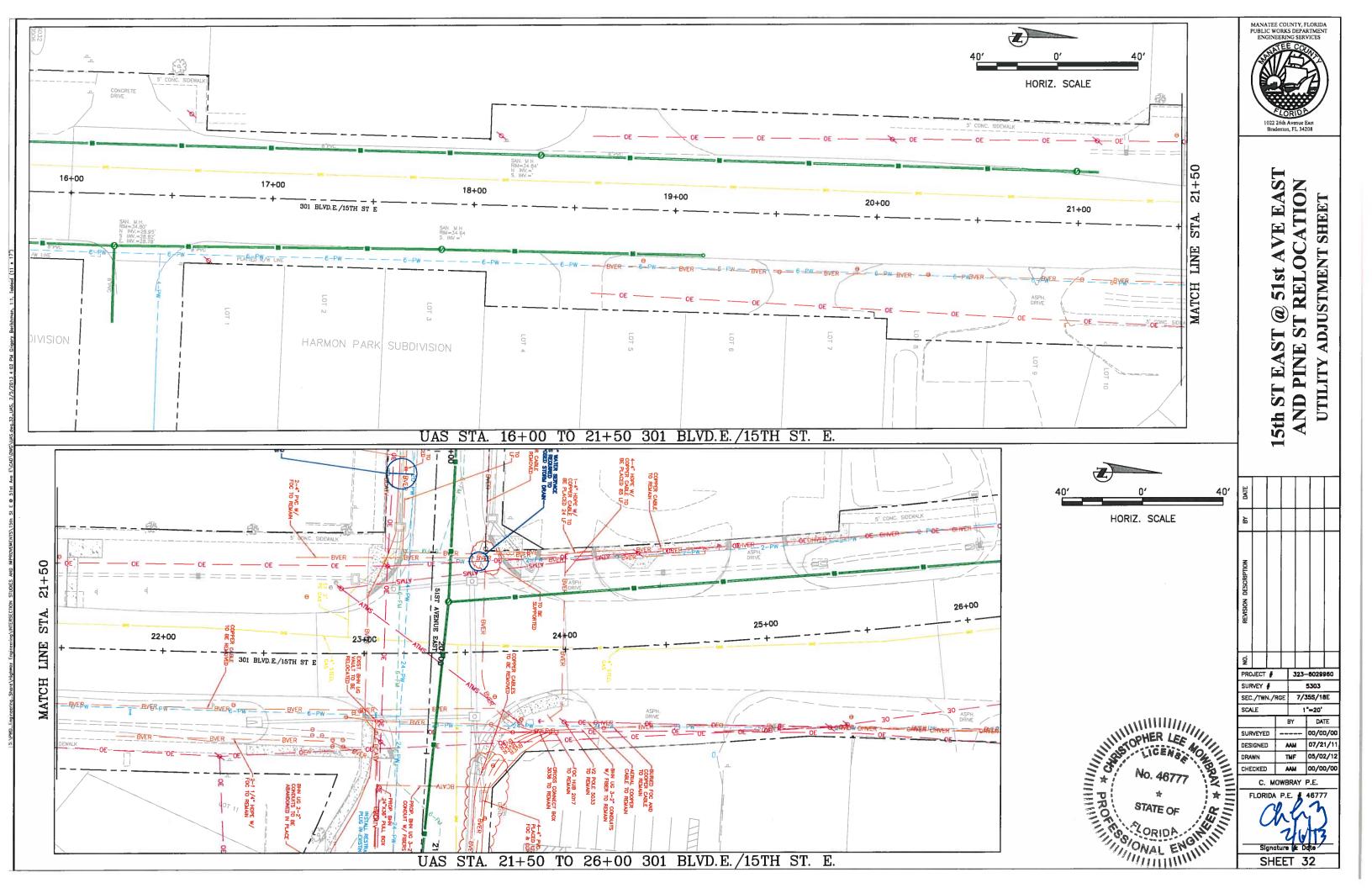


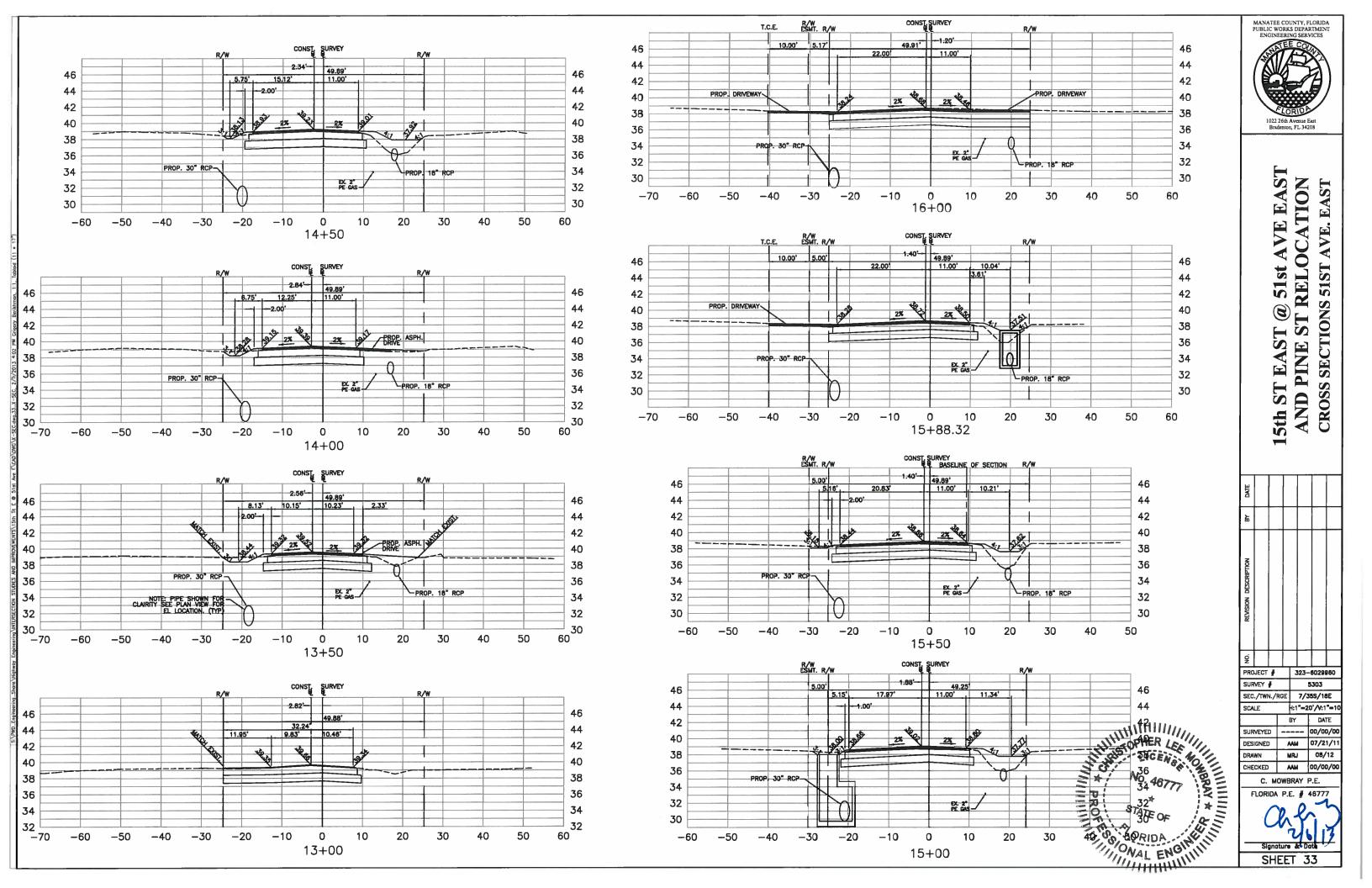


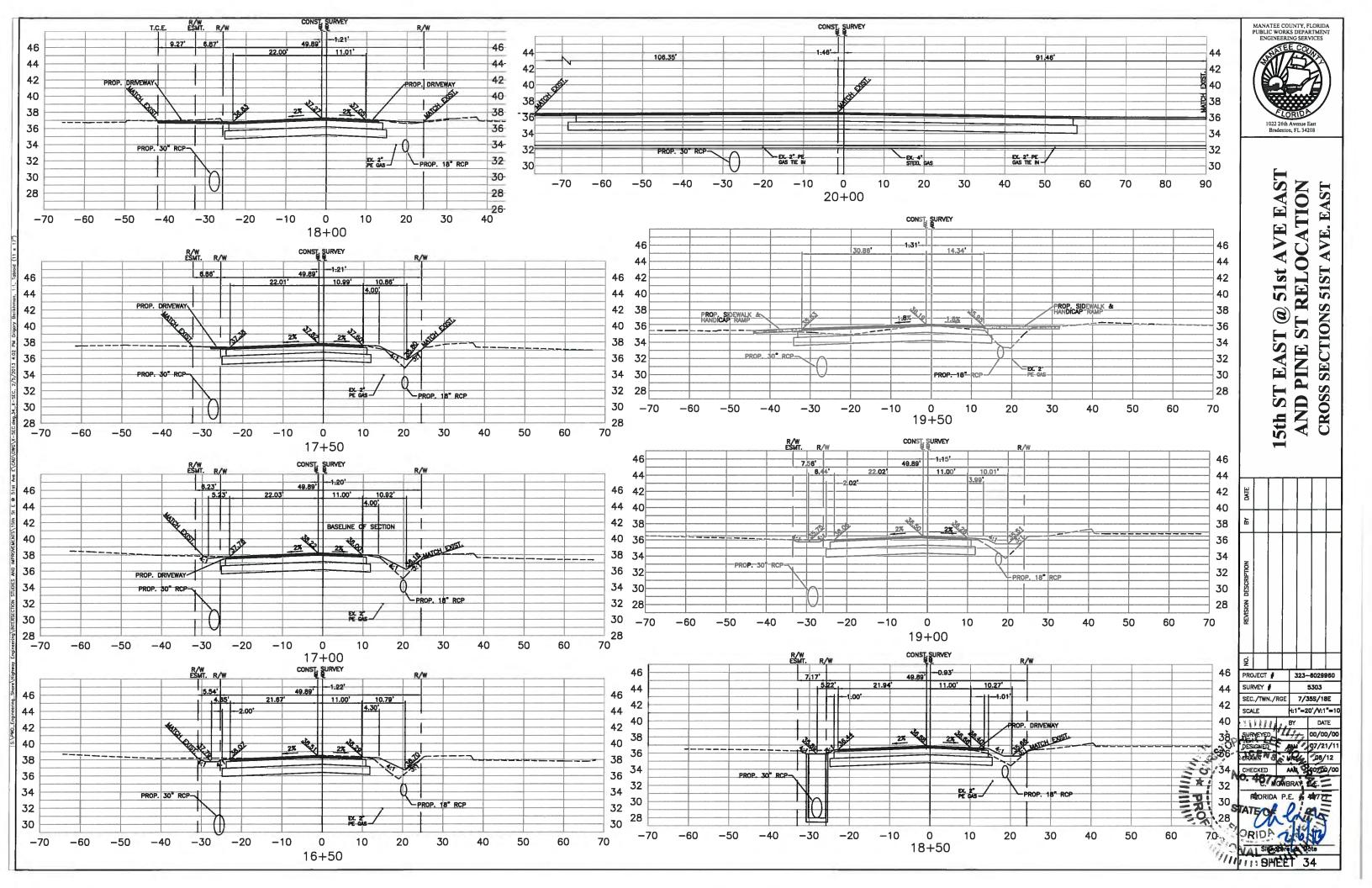


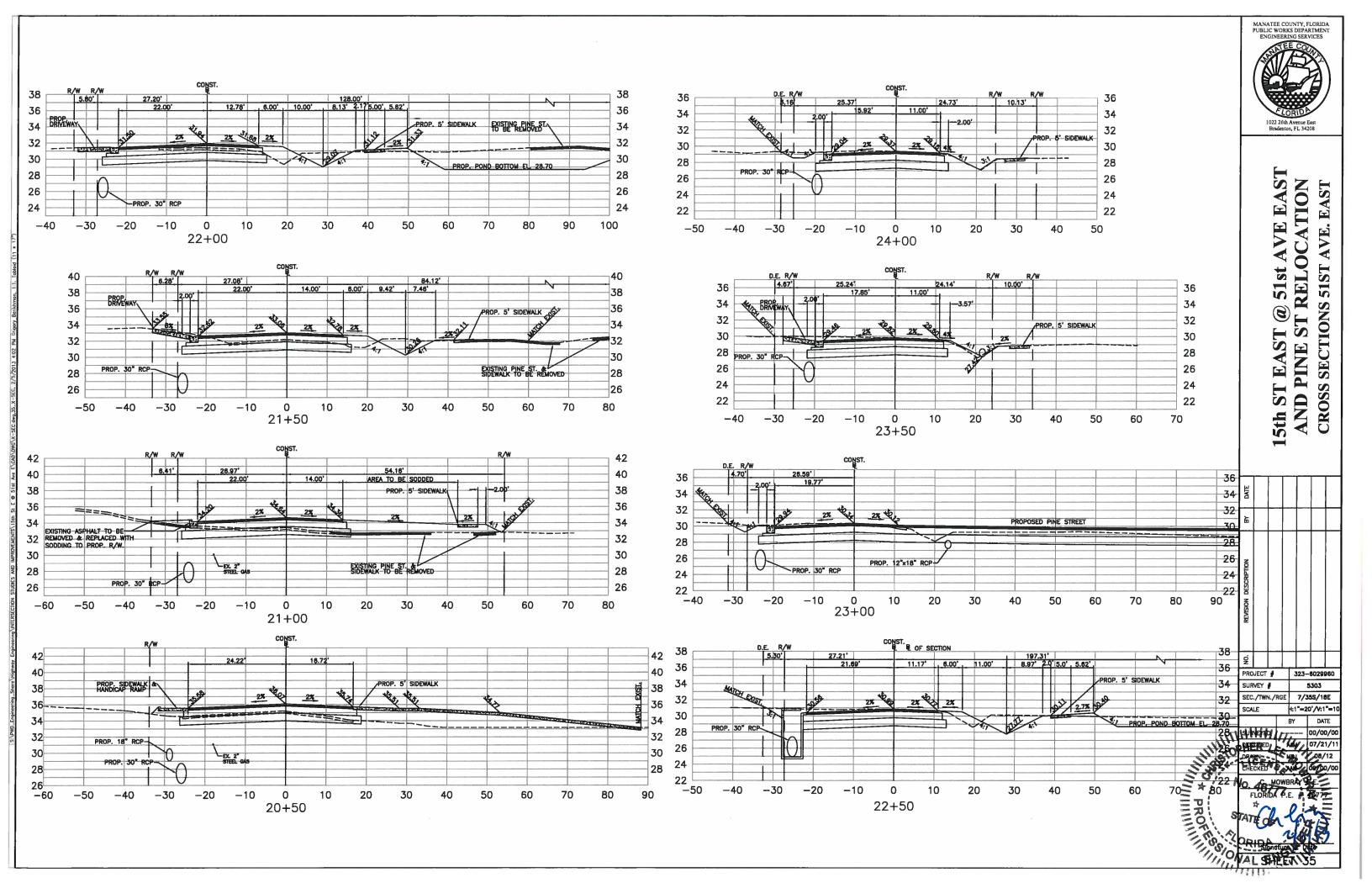


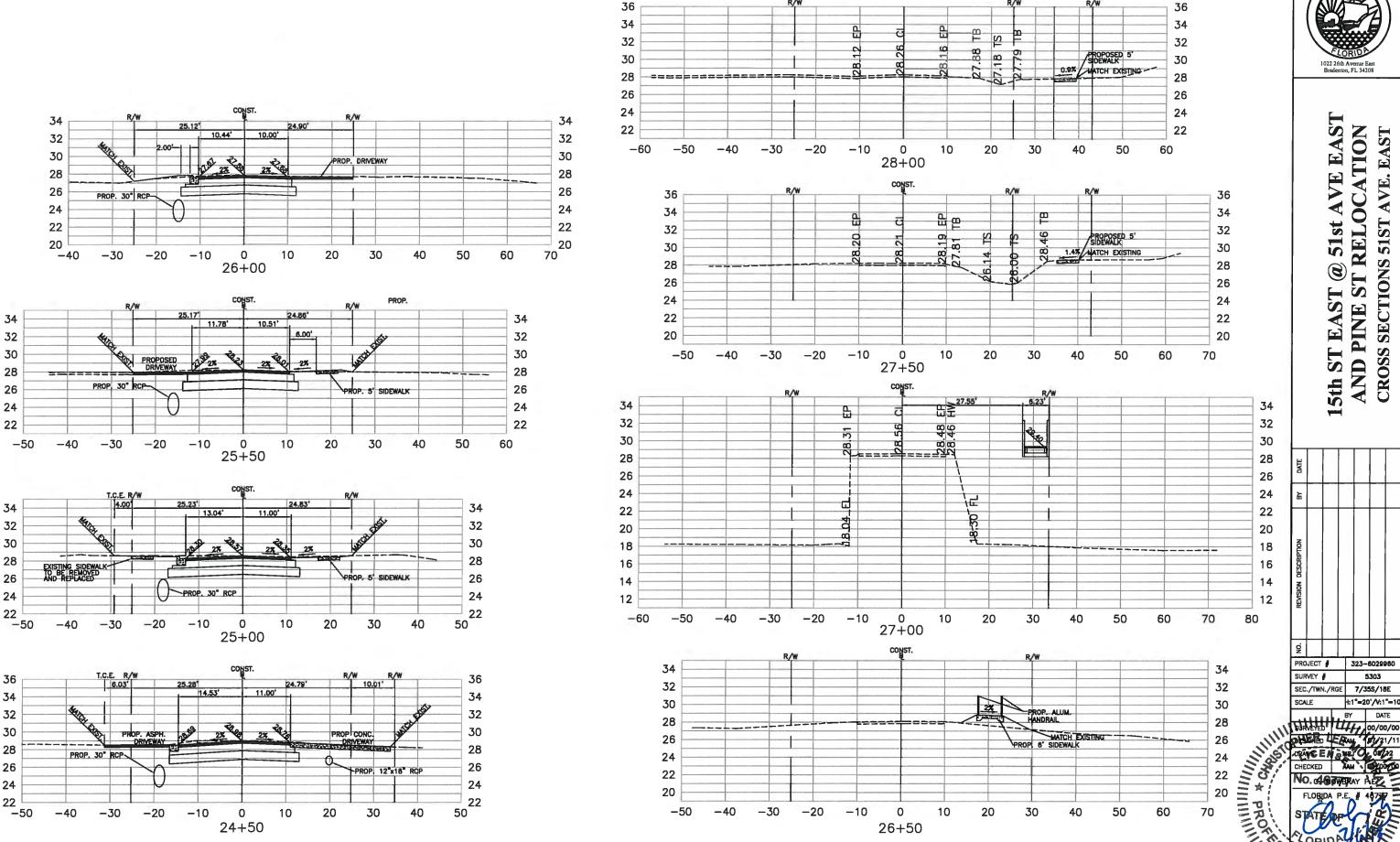














5th ST EAST @ 51st AVE EAST AND PINE ST RELOCATION **CROSS SECTIONS 51ST AVE. EAST**

PROJECT # 323-6029960

SEC./TWN./RGE 7/35S/18E

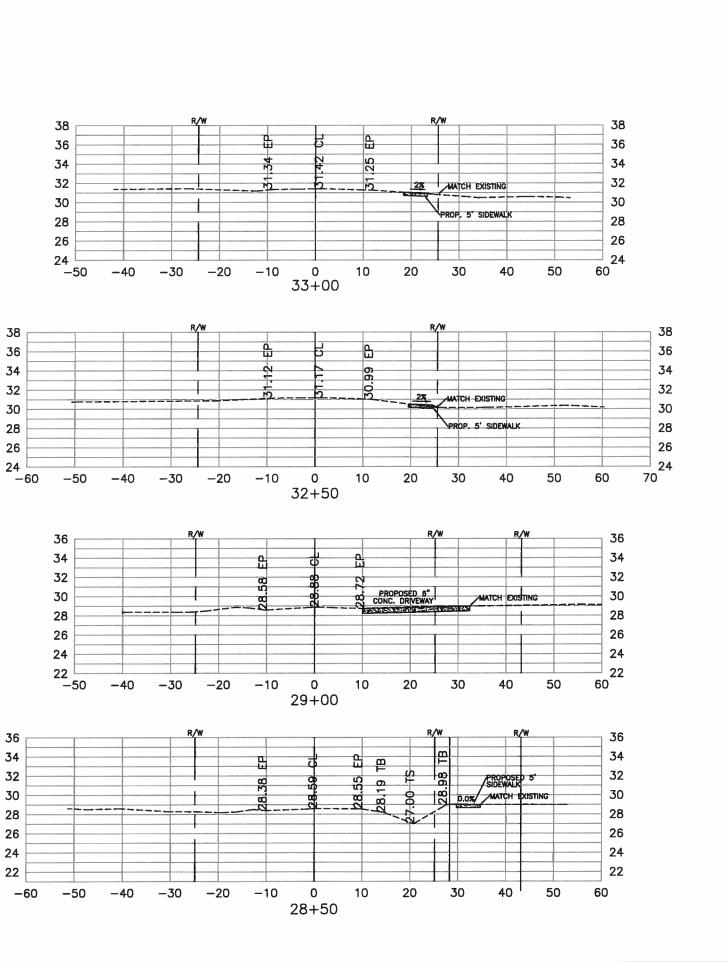
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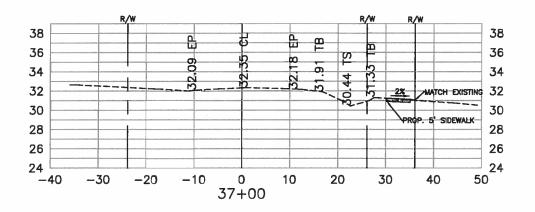
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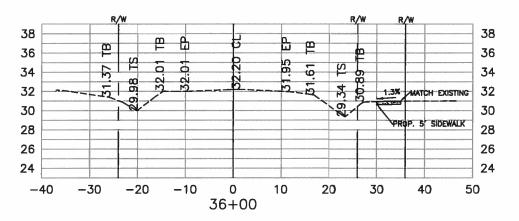
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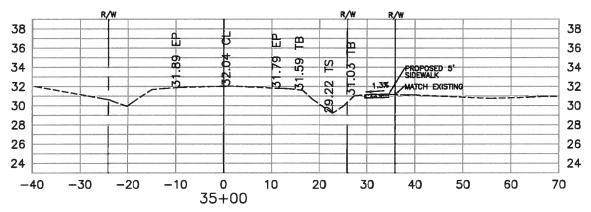
SURVEY #

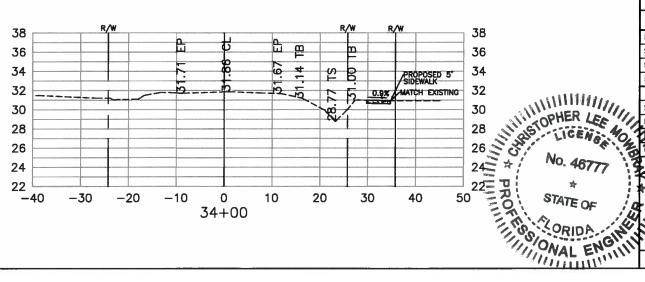
SCALE





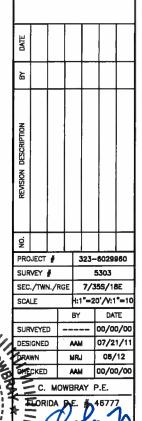




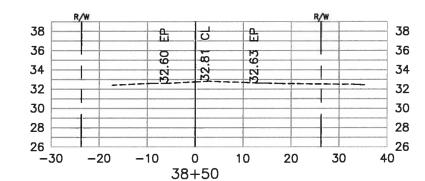


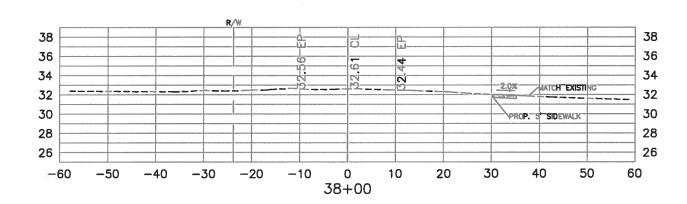


15th ST EAST @ 51st AVE EAST AND PINE ST RELOCATION CROSS SECTIONS 51ST AVE. EAST



SHEET 37





		ST STREET EAST			
TATION		AREA FILL (sf)	DIST. (ft)	VOL CUT (ci)	VOL FILL (ci
12+50	0.0	0,0		1400	
13+00	65.17	0	50	1629	0
13+50	54.2	8.68	50	2985	217
14+00	55,5	2.0	50	2743	267
14+50	42.01	17.7	50	2438	491.75
15+00	51.57	16.9	50	2340	864.25
15+50	71.58	14.7	50	3079	789.5
15÷88	71.46	11.1	38.32	2741	493.7532
16÷00	101.4	0.67	11.68	1010	68 6784
16+50	76.9	8.84	50	4458	237.75
17+00	72.6	7,42	50	3737	406.5
17+50	73,5	5,85	50	3652	331.75
18÷00	79.99	1.3	50	3837	177.75
18+50	77.0	7,2	50	3925	211.5
19÷00	81.0	10,65	50	3950	446.25
19+50	74.0	16.5	50	3875	678.75
20+00	282.0	0.0	50	8900	412.5
20+50	48.00	85.00	50	8250	2125
21+00	72.00	57.00	50	3000	3 5 5 0
21+50	73.43	8.9	50	3636	1648.25
22+00	85.43	13.0	50	3972	548.25
22+50	100	10.0	50	4636	575
23+00	116.62	0.7	50	5416	266,75
23+50	89.65	2.1	50	5157	70.25
24+00	74.94	0.7	50	4115	70.5
24+50	78.66	0.0	50	3840	17
25+00	68.18	0.0	50	3671	0
25+50	59.67	1.3	50	3196	32
26+00	57.2	1.1	50	2922	59
26+50	1.3	11.0	50	1464	302
27+00	0.0	0.0	50	34	275
27+50	1.8	0.0	-	45	0
			50		0
28+00	1.7	0.0	50	86	0
28+50	1.5	0.0	50	80	
29+00	11.2	0.0	50	318	0
29+50	0.0	0.0	50	280	0
32+00	0.0	0.0	250	0	0
32+50	1.1	0,3	50	27	7
33+00	1.5	0.1	50	64	9.5
33+50	1.9	0.0	50	85	2.5
34+00	1.7	0.0	50	89	0
34+50	1.7	0.0	50	84	0
35+00	1.7	0_1	50	85	1.25
35+50	1.7	0.0	50	85	1.25
36+00	1.7	0.0	50	85	0
36+50	1.7	0.0	50	85	0
37+00	1.7	0.1	50	85	2.5
37+50	1.7	0.1	50	85	5
38+00	1,7	0.0	50	85	2.5
38+10	0.0	0.0	10	9	0
		SUBTOTAL VO	DLUMES	110,364	15,665

15TH STREET EAST										
STATION	AREA CUT (sf)	AREA FILL (sf)	DIST. (ft)	VOL CUT (cf)	VOL FILL (cf					
20+00	-									
21+00			50	0.00	0.00					
21÷50			50	0.00	0.00					
22+00			50	0.00	0.00					
22+50		25.00	50	0.00	625.00					
23÷00	126.00	72.00	50	3150.00	2,425.00					
23+40			50	3150.00	1,800.00					
23+40										
24÷00	114.00	9.00	60.00	3420.00	270.00					
24÷50	-		50.00	2850.00	225.00					
25÷00			50.00	0.00	0.00					
25+50		10.00	50.00	0.00	0.00					
26+00			50.00	0.00	0.00					
	SUB	TOTAL VOLUMES	3	12,570.00	5,345.00					

CUT-FILL VOLUME TABULATION PINE STREET @ SIST AVENUE EAST ROAD										
STATION		AREA FILL (st)			VOL FILL (cf					
99-95										
100+00	26,51	0.60	5.00	66.28	19.88					
100+25	24,79	8.00	75.00	1,923.75	8,272.13					
101+25	0.03	29.30	75.00	930.75	17,358.49					
101÷50	0.33	32.91	76.00	13.68	425.52					
102÷00	7.00	29.00	77.00	282.21	4,643.68					
102÷35	12.59	19.71	78.00	764.01	7,529.32					
103+00			79.00	497.31	4,900.94					
		SUBTOTAL VO	DLUMES	4,477.98	43,149.95					

TOTAL CUT-FILL VOLUME	IADULATION	400
	VOL CUT (CY)	OL FILL (CY
SIST AVENUE EAST ROAD AND SWALES	96,263.96	15,122.68
15TH STREET EAST	12,570.00	5,345.00
PINE STREET POND	334.00	-
PINE STREET ROAD	4,477.98	43,149.95
SUBTOTAL VOLUMES	4,209,11	2,356,21

No. 46777 ASTATE OF STATE OF ORIDA CHILINIA



15th ST EAST @ 51st AVE EAST AND PINE ST RELOCATION **CROSS SECTIONS 51ST AVE. EAST**

PROJECT #
SURVEY # 323-6029960 5303 SEC./TWN./RGE 7/35S/18E 1:1"=20'/V:1"=1 SCALE BY DATE

C. MOWBRAY P.E. FLORIDA P.E.

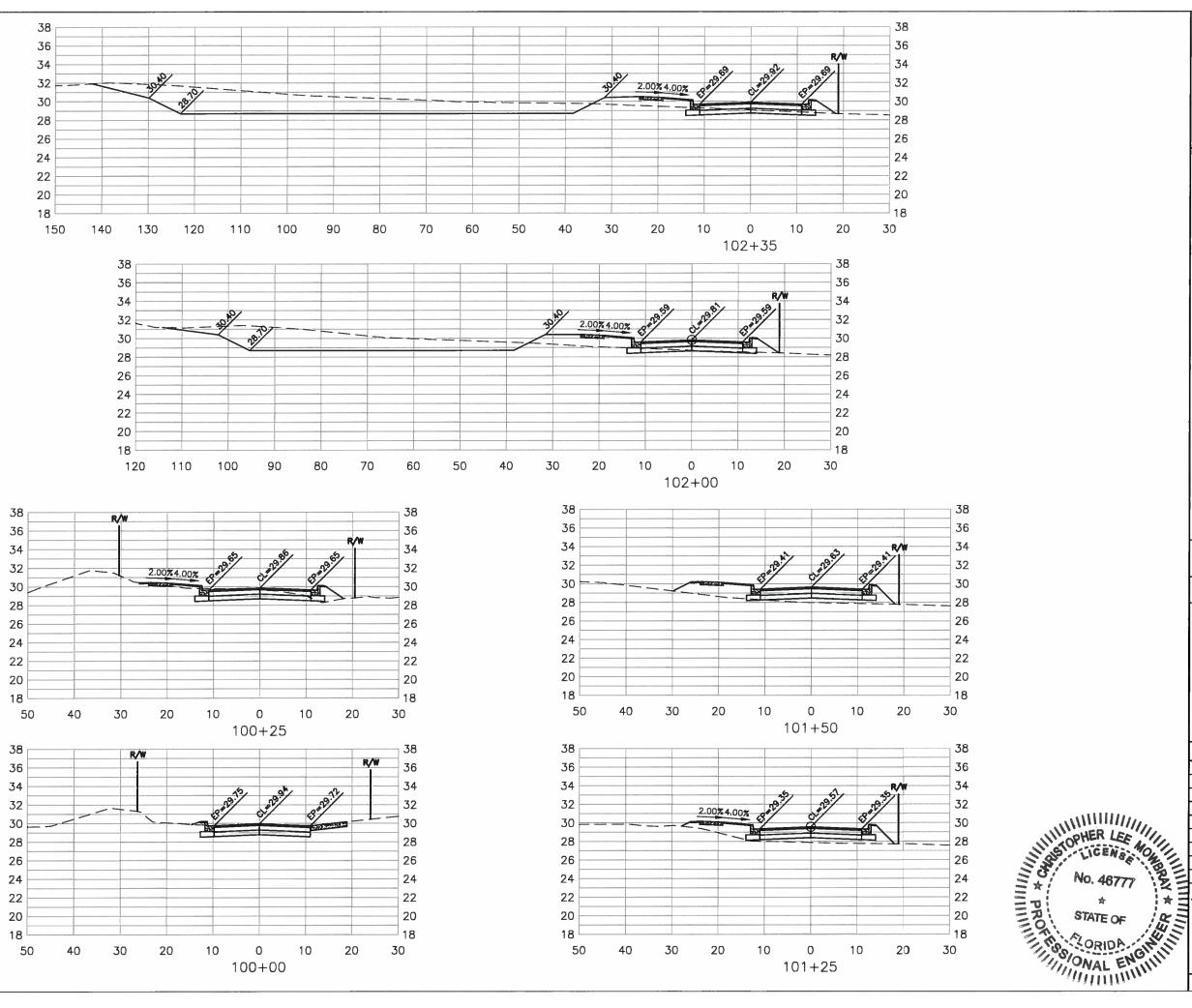
SURVEYED

DESIGNED

DRAWN CHECKED MRJ 08/12 AAM 00/00/00 SHEET 38

---- 00/00/00

AAM 07/21/11



MANATEE COUNTY, FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES

FLORIDE

1022 26th Avenue East
Bradenton, FL 34208

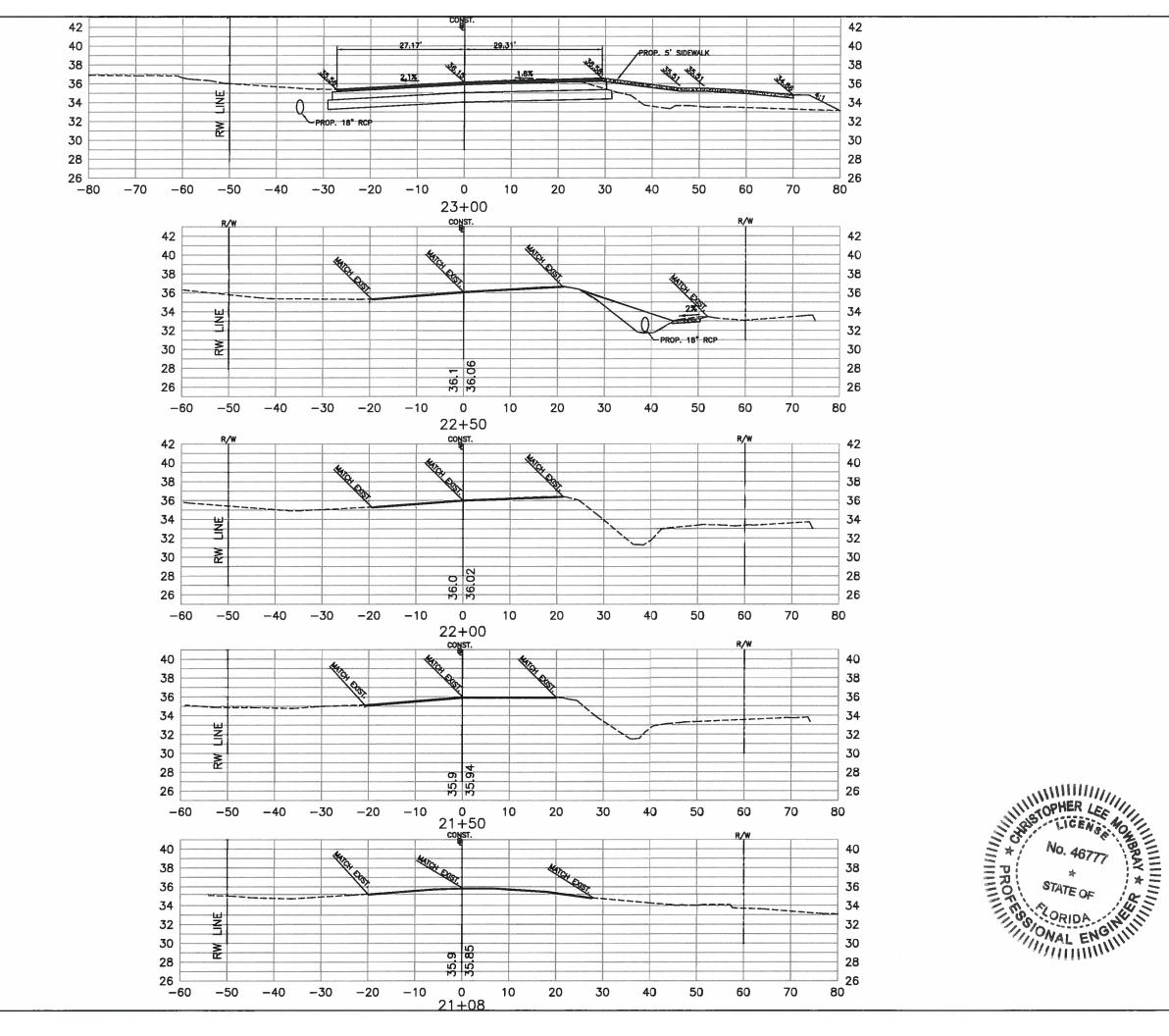
15th ST EAST @ 51st AVE EAST AND PINE ST RELOCATION PINE ST. CROSS SECTIONS

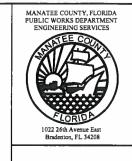
BY DATE
SURVEYED ----- 00/00/00
DESIGNED AAM 07/21/11
DRAWN MRJ 08/12
CHECKED AAM 00/00/00

C. MOWBRAY P.E.

FLORIDA P.E. 46777

SHEET 39





15th ST EAST @ 51st AVE EAST AND PINE ST RELOCATION CROSS SECTIONS 15th ST. EAST

	VEY		_	H	_			
PRO	VECT	7		323-6029960				
NO.								
REVISION DESCRIPTION								
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DATE								

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PROJECT		3	23-	-6	0299	960	
SURVEY #			5303				
SEC./TWN./RGE				7/3	5	S/18	EΕ
SCALE			1:1"=20'/V:1"=10				
		1	BY			DAT	ΤĒ
SURVEYED	•			-	0	0/00	00/0
DESIGNED	Т	1	WM		0	7/2	1/11

 DESIGNED
 AAM
 07/21/11

 DRAWN
 MRJ
 08/12

 CHECKED
 AAM
 00/00/00

 C. MOWBRAY
 P.E.

FLORIDA P.E. #45777

SHEET 40



15th ST EAST @ 51st AVE EAST AND PINE ST RELOCATION CROSS SECTIONS 15th ST. EAST

	DATE							
	λЯ							
= -	REVISION DESCRIPTION							
	NO.							
	PROJECT #				2	23-0	30291	160
	SUR	VEY	#			5	303	
	SEC	/TW/	J /RC	ΈF	Г	7/3	te /11	te

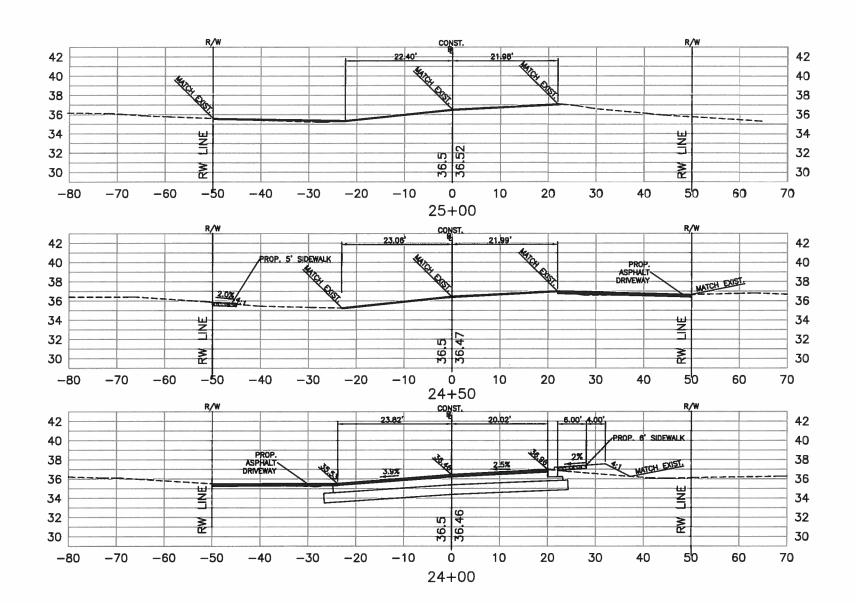
Z _						
PROJECT #		323-6029960				
SURVEY #		5303				
SEC./TWN./	RGE	7/3	35S/18E			
SCALE		l:1"=20'/V:1"=10				
		BY	DATE			
SURVEYED			00/00/00			
DESIGNED	AAM		07/21/11			
DRAWN	h	(RJ	08/12			

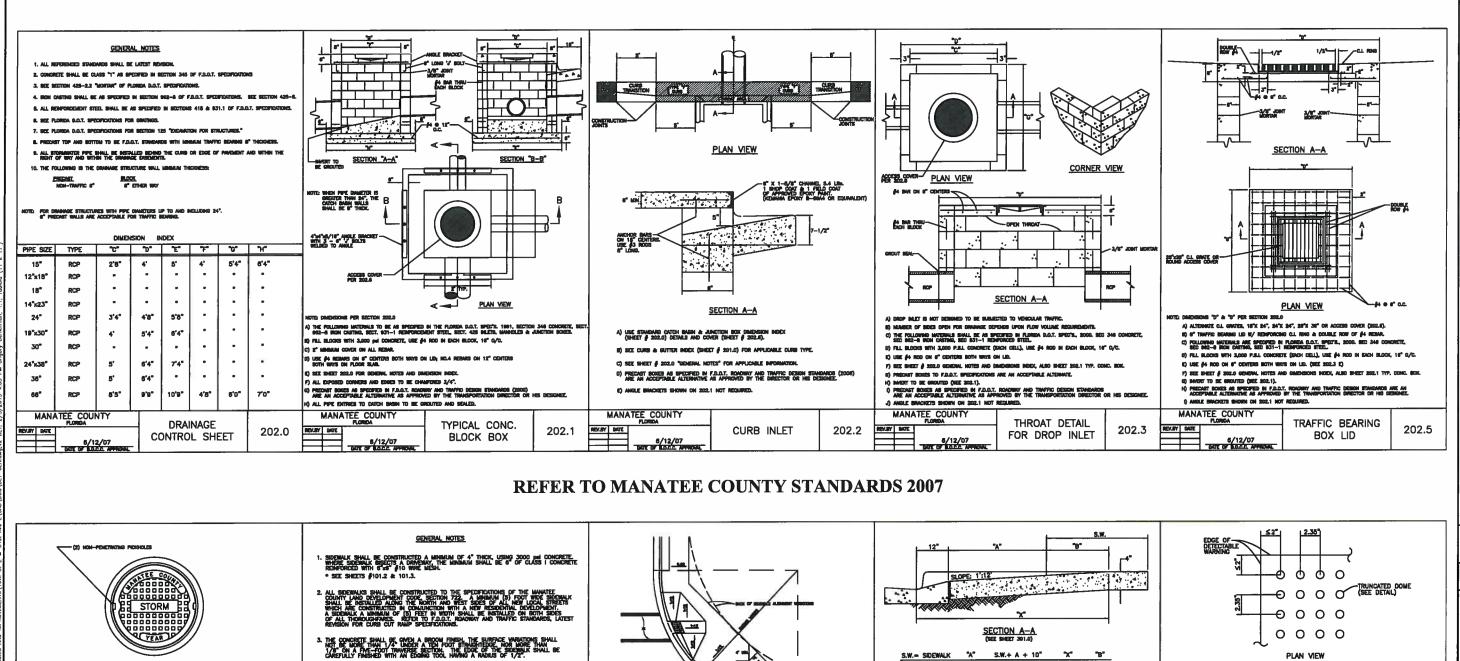
C. MOWBRAY P.E.

PROFILE OF A STATE OF

FLORIDA P.E. 4637

Signature & Date
SHEET 41





D SEE SHEETS # 300.1 "SEMENAL HOTES" & # 301.2 "HARROWPED

MOTE FOR COMPLETE SOCIENTA GENERA SEE FOLOT, DESIGN STANDARDS, 2008 EDITION, MODEY 304, SHEETS 1 THROUGH 6 AND BODEY 310, SHEETS 1 & 2.

SIDEWALKS

GENERAL NOTES

301.0

MANATEE COUNTY

NOTE: POR COMPLETE HANDIGAP, PURILIC SEPTIMAT AND CURB NAMP DETAILS, SEE F.O.O.T. DESIGN STANDARDS.

HANDICAPPED

RAMP SHEET 1

302.1

26 1/2" (973 mm)

22 1/2" (871 mm)

30 1/2" (\$21 mm)

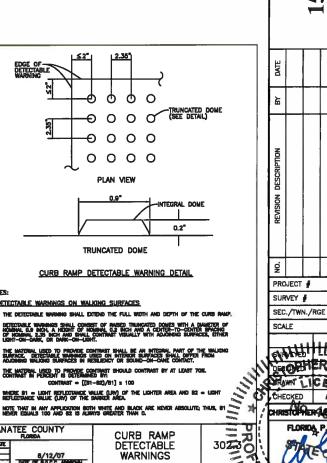
/ **WESSP**

22 1/2" (971 mm)

ACCESS COVER FOR STORMWATER JUNCTION BOX

203.1

MANATEE COUNTY



WARNINGS

-7.8'-8.3'

FOR COMPLETE HANDICAP, PUBLIC SECRETAL AND CURB DAMP DETAILS, SEE FLACE, DESIGN STREAMERS, 2009 ENTIRE, MORK 304, 244225 1 THROUGH C.

HANDICAPPED

RAMP SHEET 2

4.5

302.2

2.5

MANATEE COUNTY

MANATEE COUNTY, FLORIDA PUBLIC WORKS DEPARTMENT ENGINEERING SERVICES

ST RELOCATION

AND PINE

323-6029960

5303

7/35S/18E

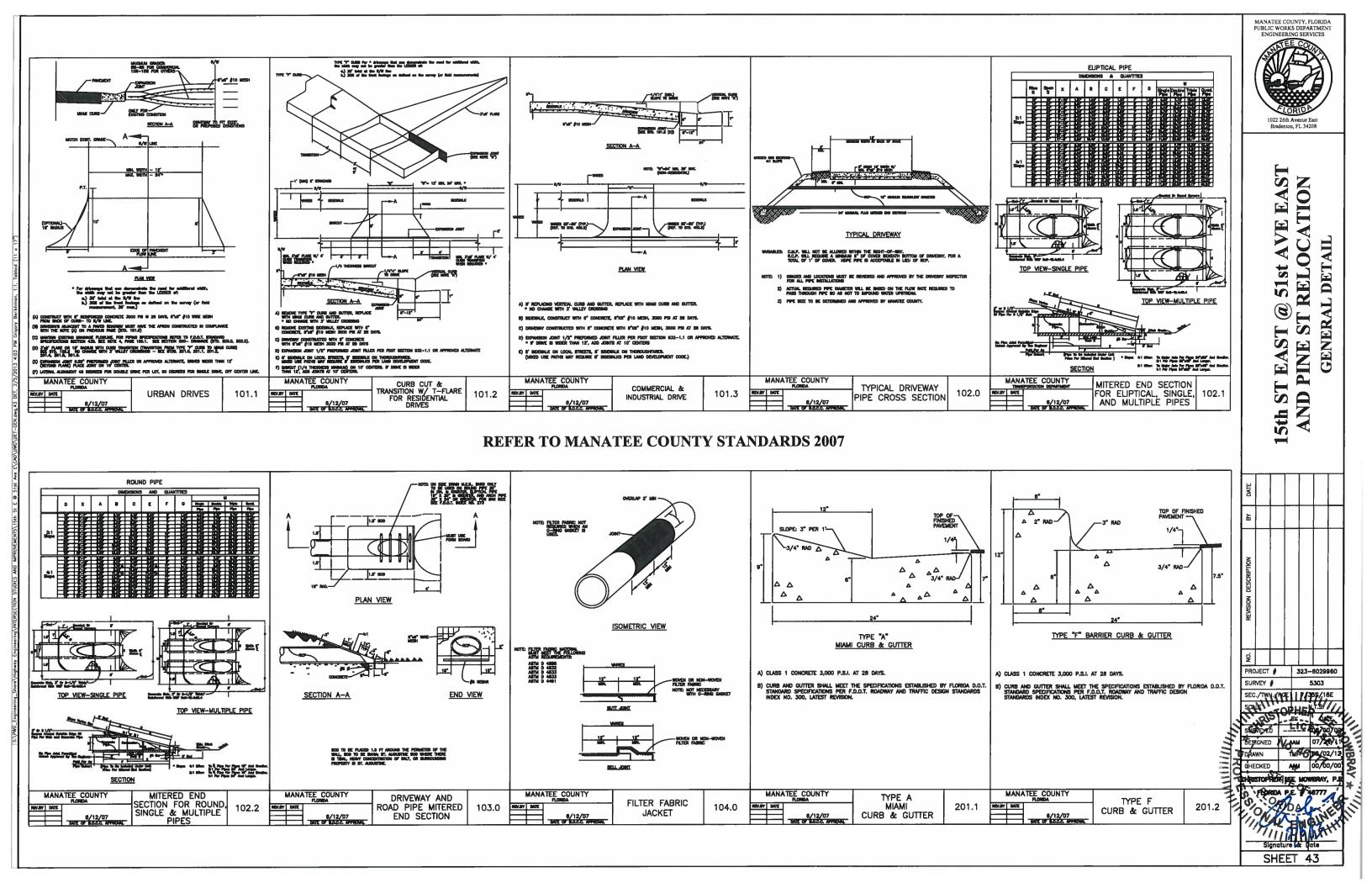
N.T.S. DATE

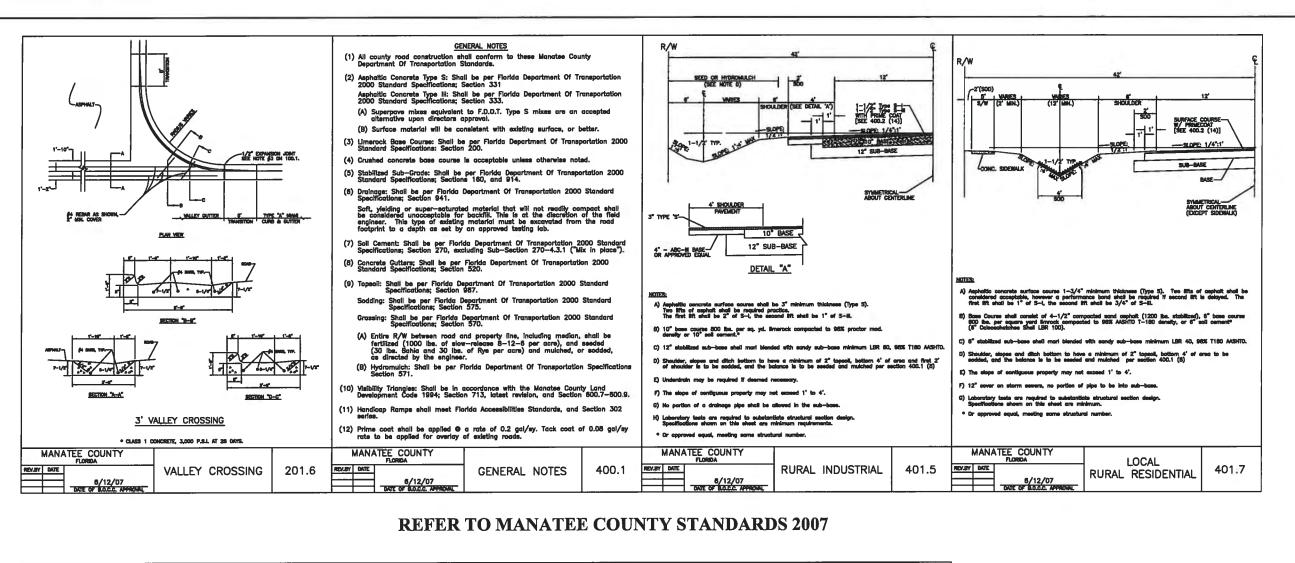
GENERAL DETAIL

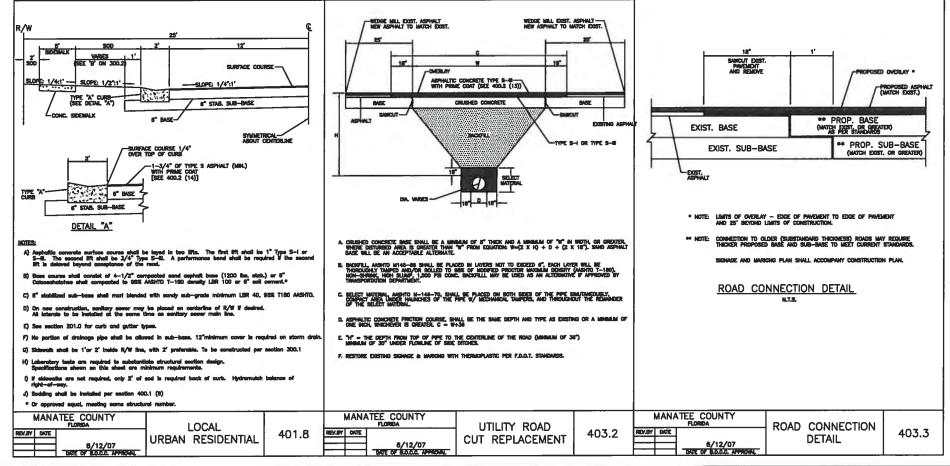
AVE E

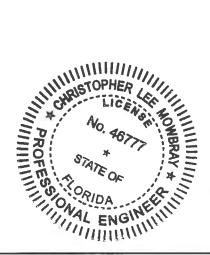
51st

(B)











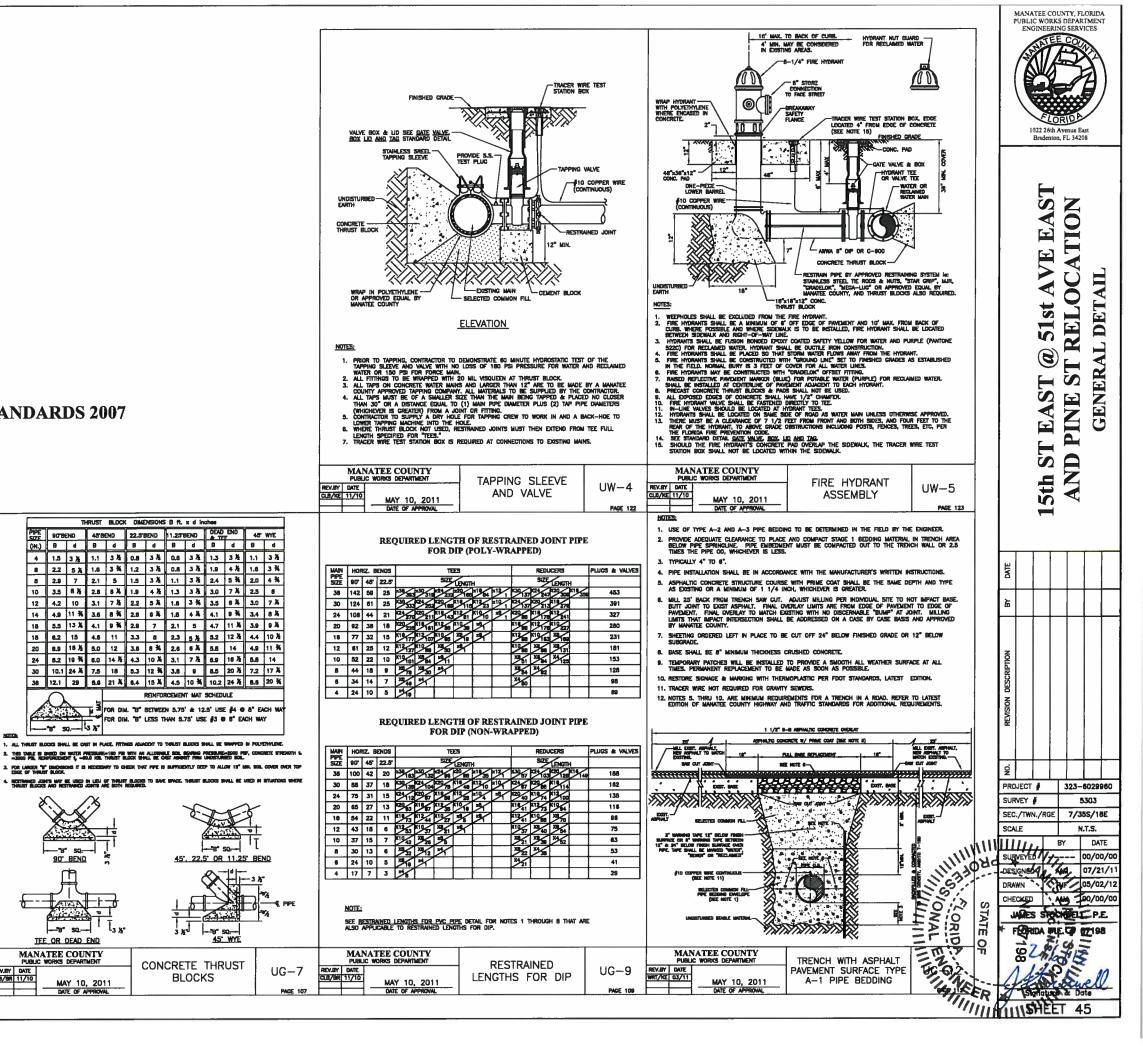
15th ST EAST @ 51st AVE EAST AND PINE ST RELOCATION

GENERAL DETAIL

REVISION DESCRIPTION						V		
ō.								
PRO	PROJECT #			23-	6029	960		
SUR	VEY #		5303					
SEC	./TWN.	/RGE	7/35S/18E					
SCA	LE			-	v.T.S.			
	7.000		BY		DA*	ΓE		
SUR	VEYED			-	00/0	0/00		
DES	IGNED	1	WM		07/2	1/11		
DRA	DRAWN				05/0	2/12		
CHE	CHECKED				00/0	0/00		
CHR	CHRISTOPHER LEE MONBRAY, P.E.							
	FLORI	M.P.	E		1877			

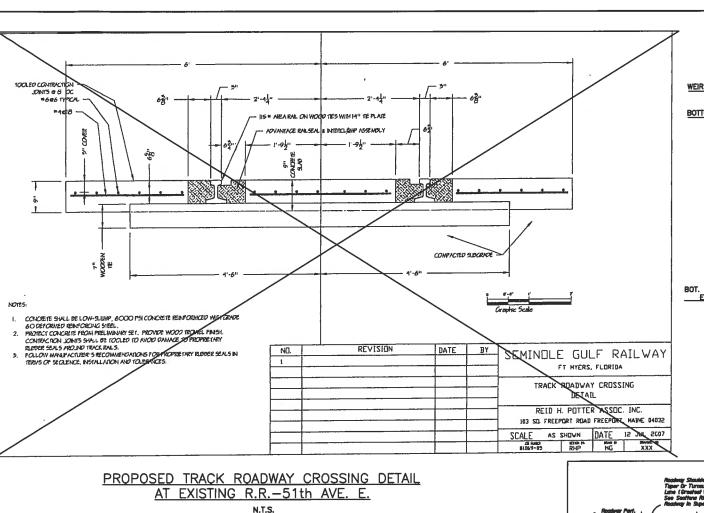
SHEET 44

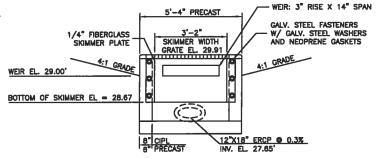
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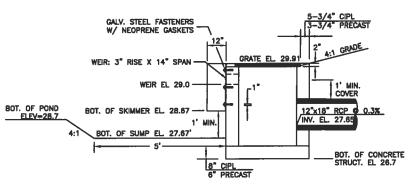


REFER TO MANATEE COUNTY STANDARDS 2007

TEE OR DEAD END MANATEE COUNTY
PUBLIC WORKS DEPARTMENT







5'-6" x 4'-0" CONC. BLOCK BOX PER MANATEE CO. 202.1/202.4 PROPOSED CONTROL STRUCTURE & SUMP DETAIL FOR DRY POND-PINE STREET



MANATEE COUNTY, FLORIDA

PUBLIC WORKS DEPARTMENT

1022 26th Avenue East

AVE EAST

51st

B

5th ST EAST

PROJECT #

SURVEY #

SCALE

SURVEYED

DESIGNED

CHECKED

DRAWN

SEC./TWN./RGE

323-6029960

5303

7/35S/18E

N.T.S.

BY

AAM

KRISTOPHER LEE MOWERAY, P.E

Signature & Date SHEET 46

DATE

00/00/00

07/21/1

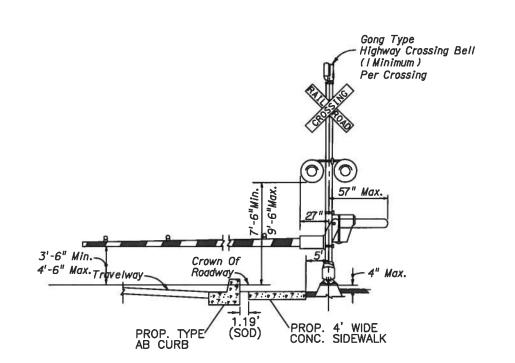
TMF 05/02/12 AAM 00/00/00

PINE ST RELOCATION

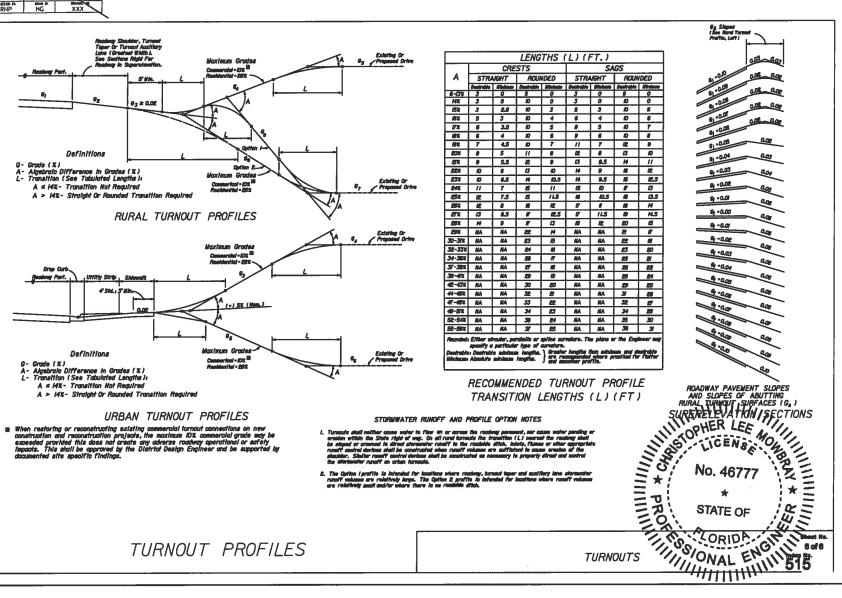
AND

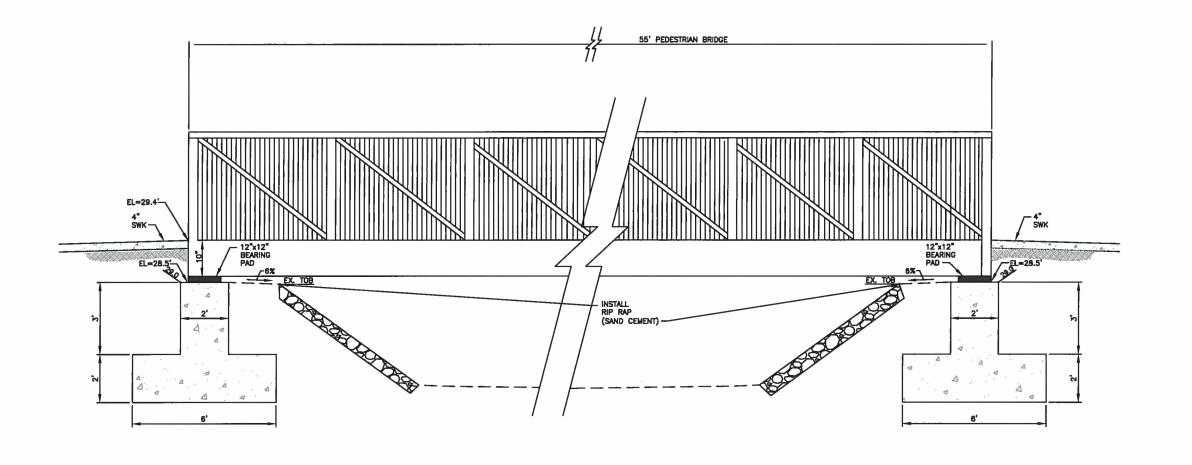
GENERAL DETAIL

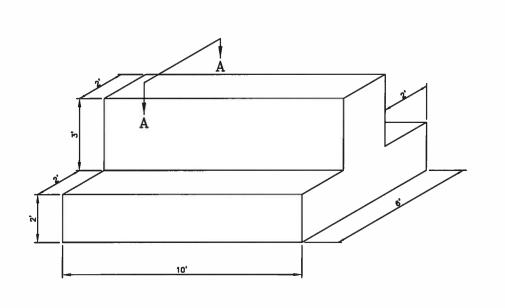
SUMP DETAIL

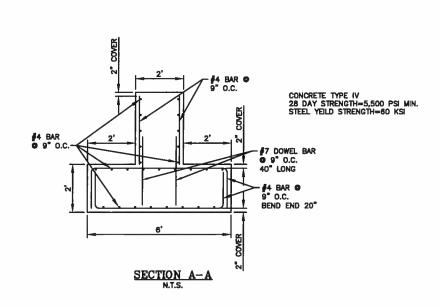


PROPOSED 4' SIDEWALK AT EXISTING R.R. CROSSING GATE @ 51th AVE. E.









No. 46777

*
STATE OF

ORIDA CINILITIAN

ONAL ENGINEER

ONAL ENGIN

15th ST EAST @ 51st AVE EAST AND PINE ST RELOCATION PEDESTRIAN BRIDGE FOUNDATION DETAIL

MANATEE COUNTY, FLORIDA PUBLIC WORKS DEPARTMENT ENGINEERING SERVICES

ROJECT # 323-6029960 URVEY # 5303 EC./TWN./RGE 7/35S/18E CALE N.T.S. BY DATE URVEYED 00/00/00 ESIGNED AAM 07/21/1 RAWN TMF 05/02/12 HECKED AAM 00/00/00 RESTOPHER LEE MOWBRAY, P.4	CIA TIV										
URVEY \$ 5303 EC./TWN./RGE 7/355/18E CALE N.T.S. BY DATE URVEYED 00/00/00 ESIGNED AAM 07/21/1 RAWN TMF 05/02/12 HECKED AAM 00/00/00	į							I			
EC./TWN./RGE 7/35S/18E CALE N.T.S. BY DATE URVEYED 00/00/00 ESIGNED AM 07/21/1 RAWN TMF 05/02/12 HECKED AM 00/00/00	RC	VECT			323-6029960						
CALE N.T.S. BY DATE URVEYED 00/00/01 ESIGNED AM 07/21/1 RAWN TMF 05/02/12 HECKED AM 00/00/00	URVEY #					5303					
BY DATE URVEYED 00/00/01 ESIGNED AM 07/21/1 RAWN TMF 05/02/12 HECKED AM 00/00/01	EC./TWN./RGE						7/3	5	S/18	3E	
URVEYED 00/00/00 ESIGNED AM 07/21/1 RAWN TMF 05/02/11 HECKED AM 00/00/00	CALE					N.T.S.					
ESIGNED AAM 07/21/1 RAWN TMF 05/02/12 HECKED AAM 00/00/00					- 1	ΒY		DATE			
RAWN TMF 05/02/12 HECKED AAM 00/00/00	UR	VEYE	D		-	00/00/0)/00)
HECKED AAM 00/00/00	ES	IGNED	,	Г	-	W		0	7/2	1/11	ı
	RA	WN	1			MF	•	0	5/02	2/12	!
DISTRIBUTED LEE MONGOAY DE	HECKED A			1	W	AM 00/00/0			0/00)	
Majornek Lee Monakki, Fa	RE	STOP	HE	₹	LE	E	MON	8	RAY,	P.E	

SHEET 47

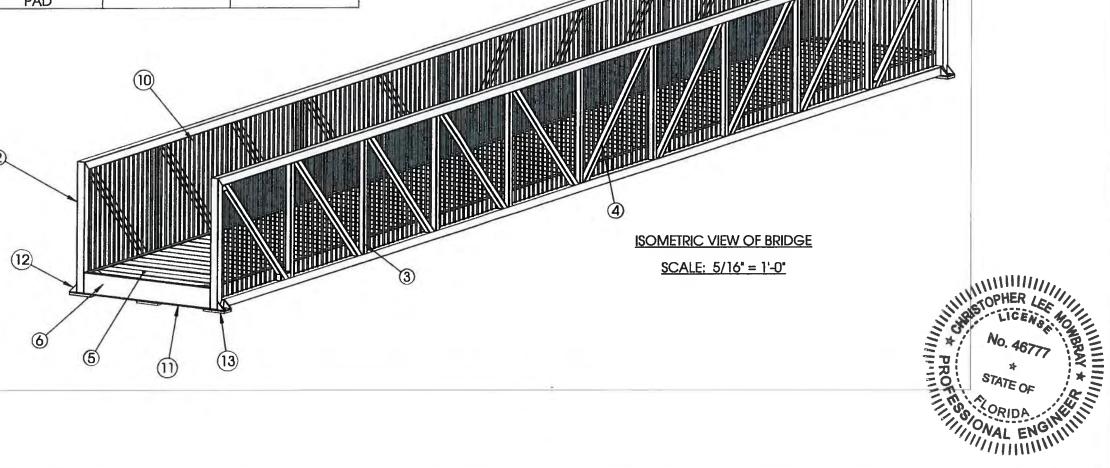
PEDESTRIAN BRIDGE FOUNDATION DETAIL N.T.S.

ITEM #	TYPE '	DESCRIPTION	QTY/COMMENTS
1	TUBE	4" x 4" x 1/4" TOP & BOTTOM CHORDS	4
2	TUBE	4" x 4" x 1/4" END POSTS	4
3	TUBE	3" x 3" x 3/16" TRUSS POSTS	18
4	TUBE	3" x 3" x 3/16" TRUSS DIAGONALS	20
5	ALUMINUM DECKING	8 5/8" WIDE PLANK	3/16" GAP BETWEEN PLANKS
6	E-CHANNEL BOX FRAME	10" DEEP	1
7	C-CHANNEL	6" DEEP CROSS MEMBER	9
8	TUBE	2" x 2" x 3/16" STRINGER	1
9	C-CHANNEL	6" DEEP HORIZONTAL BRACING	10
10	ROD	3/4" ROUND PICKET	SEE G-3
11	BAR	6" x 88" x 1/2" BAR	2
12	GUSSET	4" x 4" x 1/4"	8
13	UHMW BEARING PAD	6" x 12" x 1"	6

NOTES:

- ALL PRIMARY STRUCTURAL ALUMINUM IS 6061-T6. ALL SECONDARY AND NON-STRUCTURAL ALUMINUM SHALL BE 6XXX SERIES.
 ALL HARDWARE IS STAINLESS STEEL, TYPE 18/8, SERIES 304.
 ALL WELDED FABRICATION IN ACCORDANCE WITH AWS D1.2, UNLESS NOTED OTHERWISE. FILLER METAL TO BE 5356 SERIES WIRE.
 ALL DIMENSIONS ARE FRAME TO FRAME UNLESS NOTED OTHERWISE.
 ALUMINUM DECK TO BE MILL FINISHED WITH INTEGRATED NON-SLIP PATTERN.
 PEDESTRIAN BRIDGE DESIGNED FOR 85PSF LIVE LOAD, L/500 DEFLECTION.
 READING PADS TO BE LIMMW

- BEARING PADS TO BE UHMW.
 INSTALLATION BY OTHERS-NO RESPONSIBILITY IS ACCEPTED FOR WORK BY OTHERS.
 SEE CALCULATION PACKAGE FOR DESIGN AND LOADING CRITERIA.

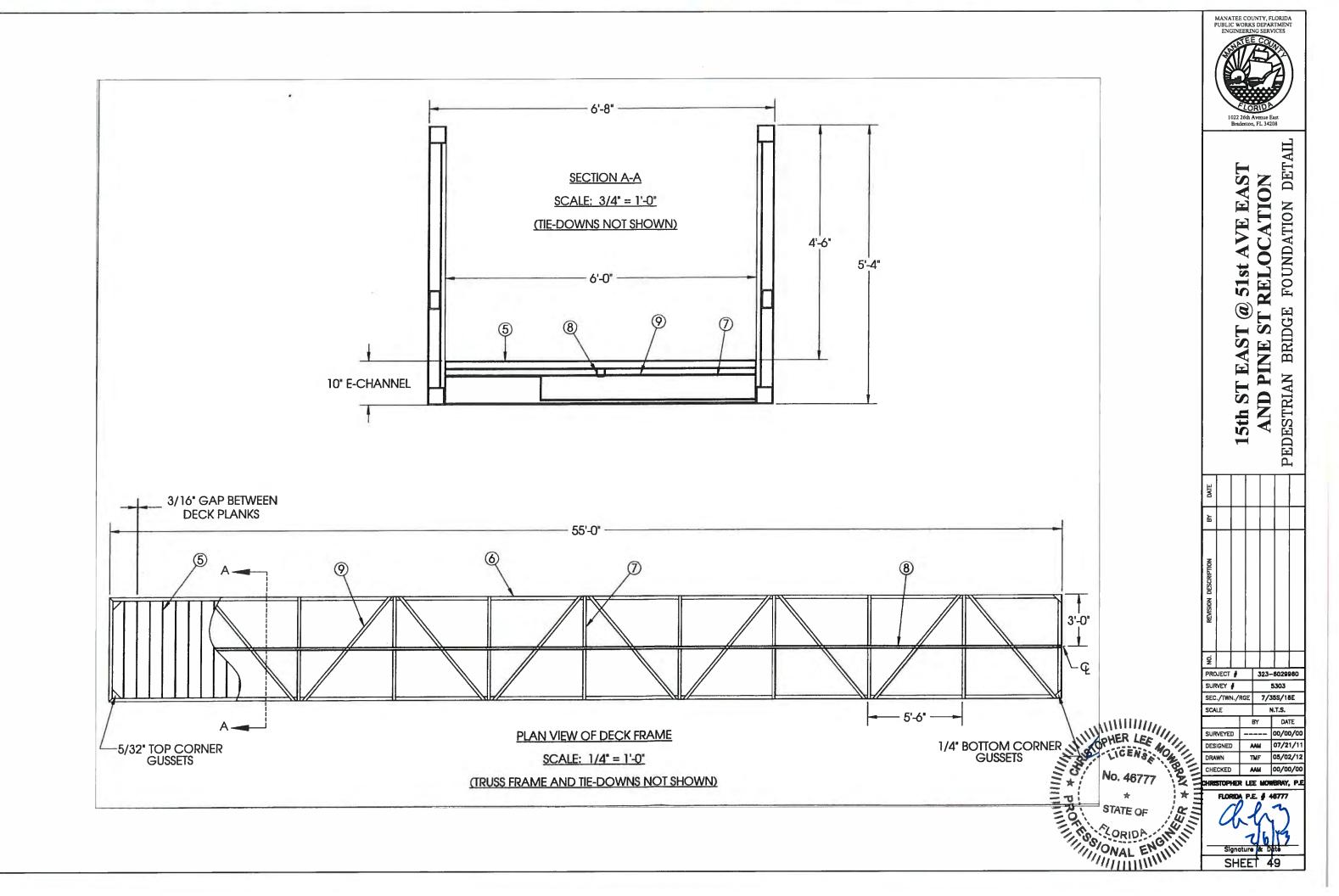


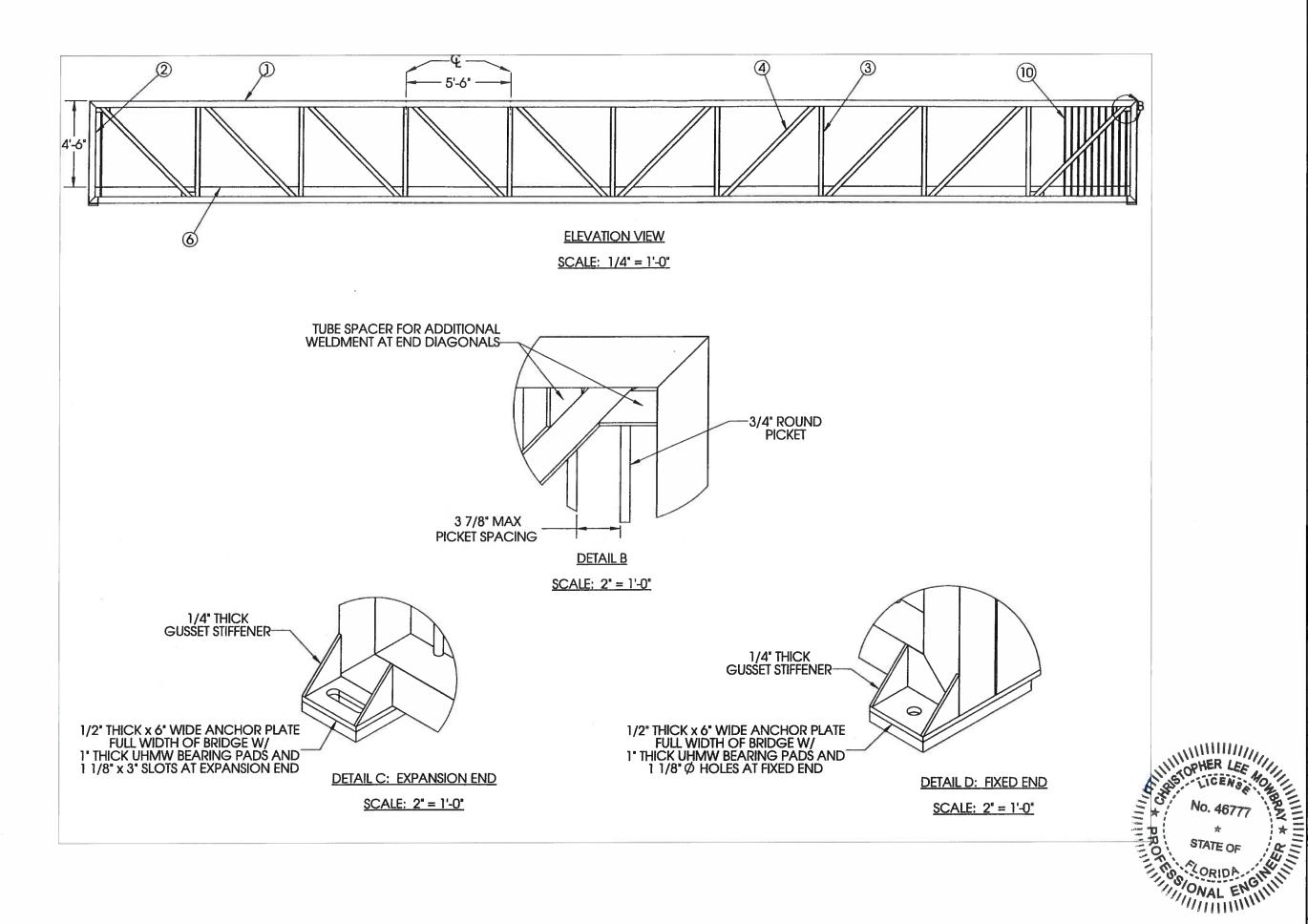


FOUNDATION DETAIL 15th ST EAST @ 51st AVE EAST RELOCATION BRIDGE AND PINE ST PEDESTRIAN

PROJECT # 323-6029960 SURVEY # 5303 SEC./TWN./RGE 7/35S/18E SCALE N.T.S. DATE SURVEYED 00/00/00 DESIGNED AAM 07/21/1 TMF 05/02/12 DRAWN

CHECKED AAM 00/00/00 RISTOPHER LEE MOWERAY, P. SHEET 48







15th ST EAST @ 51st AVE EAST AND PINE ST RELOCATION FOUNDATION DETAIL

BRIDGE

PEDESTRIAN

REVISION DESCRIPTION									
NO.								I	
PRO	JECT	#			323-6029960				Ю
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SCALE						ı	I.T.S.		
					BY		D.	ATE	:
SUR	SURVEYED					00/	00/	'00	
DES	IGNEE)		1	W	ı	07/	21,	/11
DRA	WN			1	MF	•	05/	02/	12

AAM 00/00/00 STOPHER LEE MOWERAY, P.

CHECKED

SHEET 50

MANATEE COUNTY PUBLIC WORKS DEPARTMENT

CONTRACT PLANS

MANATEE COUNTY (6029960)

INDEX OF SIGNING AND PAVEMENT MARKING PLANS

15TH STREET EAST AT 51ST AVENUE EAST

SHEET NO.

SHEET DESCRIPTION

5-1

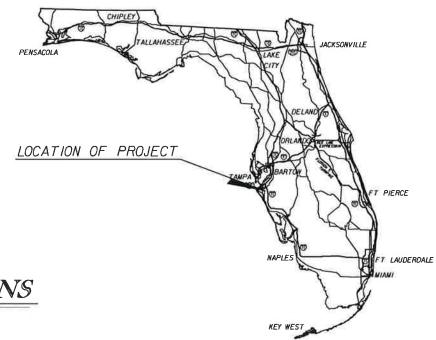
KEY SHEET TABULATION OF QUANTITIES

S-2 S-3

GENERAL NOTES

S-**4** THRU **S-8** S-9 SIGNING AND PAVEMENT MARKING PLAN GUIDE SIGN WORKSHEET SIGNING AND PAVEMENT MARKING PLANS

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



SIGNING AND PAVEMENT MARKING SHOP DRAWINGS TO BE SUBMITTED TO: SUJEEVA A. WEERASURIYA, P.E. HDR ENGINEERING, INC. 5426 BAY CENTER DRIVE, STE. 400 TAMPA, FLORIDA 33609-3444 PHONE NO. (813) 282-2300

PLANS PREPARED BY:
HDR ENGINEERING, INC.
2601 CATTLEMEN ROAD., STE. 400
SARASOTA, FLORIDA 34232-6233
PHONE NO. (941) 342-2700
FAX (941) 342-6589
CONTRACT NO. 12348
VENDOR NO. VF-470680568
CERTIFICATE OF AUTHORIZATION No. 4213

H

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

KEY SHEET REVISIONS

DATE BY DESCRIPTION

SIGNING AND PAVEMENT MARKING PLANS

ENGINEER OF RECORD: SUJEEVA A. WEERASURIYA, P.E.

P.E. NO.: 57629

FISCAL SHEET NO.

13 S-1

MANATEE COUNTY PROJECT MANAGER: VINCENT CANNA

2/5/2

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TABULATION OF QUANTITIES

-20-12 S	DESCRIPTION	UNIT	5-4	5-	-	_																HIS	I 70.	TAI	SHEE
-20-12 S						S-		S-7		S-8												EET	TO		SHEE
-20-12 S		- 10	PLAN FINAL	PLAN	FINAL	PLAN	FINAL	PLAN FI	NAL PL	LAN FIN	AL PI	LAN FI	INAL	PLAN F	INAL	PLAN FINA	L PLA	FINAL	PLAN	FINAL		FINAL	PLAN	FINAL	
-20-60 5	SINGLE POST SIGN (F&I) (< 12 SF)	AS AS		2			_			_	_		_		_		_		-	_	2		4		_
	SINGLE POST SIGN (F&I) (12-20 SF) SINGLE POST SIGN (REMOVE)	AS	 	3		- 1				_	_						_	-		-	5		5		-
-48-48 S	SIGN PANEL RELOCATE, 15 OR LESS	EA				2															2		2		1
-3 F	RETRO-REFLECTIVE PAVEMENT MARKERS																						424		1
((WHITE/RED)	EA		34		3				17											54				
((YELLOW/YELLOW)	EA	90	100		122		14		44											370				
-11-111 T	THERMOPLASTIC (STD., WHITE, SOLID, 6")	NN LF	0.117	0.39		0.181		0.102	0.	224	_									-	1.014		1.014		-
	THERMOPLASTIC (STD., WHITE, SOLID, 8") THERMOPLASTIC (STD., WHITE, SOLID, 12")	LF		107							_										443		107		1
	THERMOPLASTIC (STD., WHITE, SOLID, 18")	LF		8											_			_			8		8		+
	THERMOPLASTIC (STD., WHITE, SOLID, 24")	LF		111		13															124		124		
	THERMOPLASTIC (STD., WHITE, 2'-4' SKIP, 6")	LF								46											46		46		
-11-151 T	THERMOPLASTIC (STD., WHITE, 6'-10' SKIP, 6")	LF							_	36			-				_				36		36		-
-11-160 T -11-170 T	THERMOPLASTIC (STD., WHITE, MESSAGE) (ONLY) THERMOPLASTIC (STD., WHITE, ARROWS)	EA EA				-	_		_	3					-		_	_	-	-	3		3 23		\vdash
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-11-211 T	THERMOPLASTIC (STD., YELLOW, SOLID, 6")	NM	0.168	0.322		0.268		0.102	0.	194											1.054		1.054		
-11-224 T	THERMOPLASTIC (STD., YELLOW, SOLID, 18")	LF	180	175		161															516		516		
-11-231 T	THERMOPLASTIC (STD., YELLOW, 10'-30' SKIP, 6")	GM	0.015							2.11	_				_						0.125		0.125		-
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SAW



HDR Engineering, Inc. 2621 Cattlemen Road Suite 106 Sarasota, FL 34232–6212 FBPR Certificate of Authorization No. 4213

DATE
12/14/12
PROJECT NO.

6029960



MANATEE COUNTY
PUBLIC WORKS

DESIGN ENGINEER
SUJEEVA A.
WEERASURIYA
FL. LICENSE NO.

TABULATION OF QUANTITIES

SHEET NO.

5-2

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SIGNING AND PAVEMENT MARKING GENERAL NOTES:

- I. PAVEMENT MARKINGS SHOULD BE PLACED AS SHOWN IN THE PLANS AND THE APPROPRIATE FDOT DESIGN STANDARDS INDEX.
- 2. THE SIGN LOCATIONS SHOWN ARE APPROXIMATE AND MAY REQUIRE FIELD ADJUSTMENT AS DIRECTED BY THE ENGINEER.
- 3. THE RETRO REFLECTIVE PAVEMENT MARKER ADHESIVE USED SHALL BE THE ONE CURRENTLY ON THE FOOT QUALIFIED
- 4. REFER TO FOOT STANDARD INDEX NO. 17352 FOR RPM PLACEMENT DETAILS.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE LENGTH OF SIGN COLUMN SUPPORTS IN THE FIELD PRIOR TO FABRICATION.
- 6. 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.
- 7. ALL STRIPING SHALL BE APPLIED BEFORE RAISED MARKERS ARE INSTALLED.
- 8. FOR MARKING PLACEMENT REQUIREMENTS SEE FDOT DESIGN STANDARD INDEX NO. 17346.
- 9. SIGNS SHALL BE INSTALLED IN ACCORDANCE WITH FDOT STANDARD INDEX NO. 11860 AND NO. 17302.
- 10. ALL EXISTING STRIPING THAT IS IN CONFLICT WITH PROPOSED STRIPING AS SHOWN IN THESE PLANS IS TO BE REMOVED PER FDOT SPECIFICATIONS.
- II. CROSSWALKS SHALL BE IO' IN WIDTH UNLESS OTHERWISE INDICATED.
- SIZES FOR ALL PROPOSED SIGNS SHALL CONFIRM TO SIZES SHOWN IN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST EDITION.
- 13. THE CONTRACTOR IS TO USE CAUTION WHEN WORKING IN OR AROUND AREAS OR EXISTING LOOP AND LEAD IN WIRES, OVERHEAD TRANSMISSION LINES AND UNDERGROUND UTILITIES.
- 14. FORTY EIGHT HOURS PRIOR TO DIGGING, THE CONTRACTOR SHALL CALL SUNSHINE STATE ONE CALL OF FLORIDA, TELEPHONE NUMBER 1-800-432-4770, AND THE UTILITY OWNER TO REQUEST UTILITY LOCATIONS. A CONTRACTOR'S REPRESENTATIVE MUST BE PRESENT WHEN THE UTILITY COMPANY LOCATES THEIR FACILITIES.
- 15. THE NEW PAVEMENT STRIPING ENDS MUST MATCH EXISTING STRIPING.
- 16. SEE MANATEE COUNTY TRANSPORTATION DEPARTMENT TRAFFIC SUPPLEMENTAL SPECIFICATION 553 FOR STREET SIGN SPECIFICATIONS.

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Suite 106

HDR Engineering, Inc. 2621 Cattlemen Road Sarasota, FL 34232-6212 FBPR Certificate of Authorization No. 4213

DATE 12/14/12 PROJECT NO.

6029960



2/5/2013

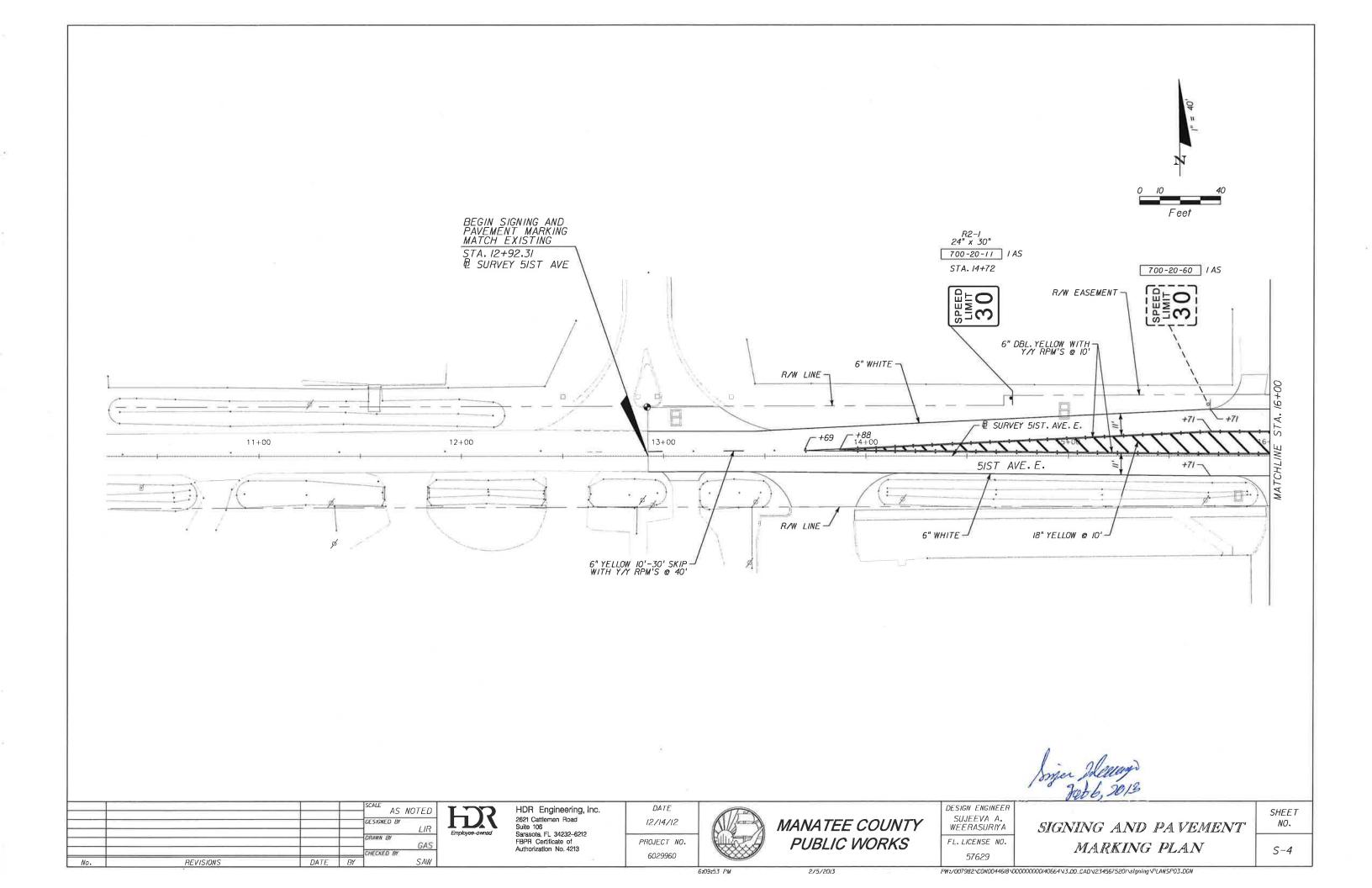
DESIGN ENGINEER SUJEEVA A. WEERASURIYA

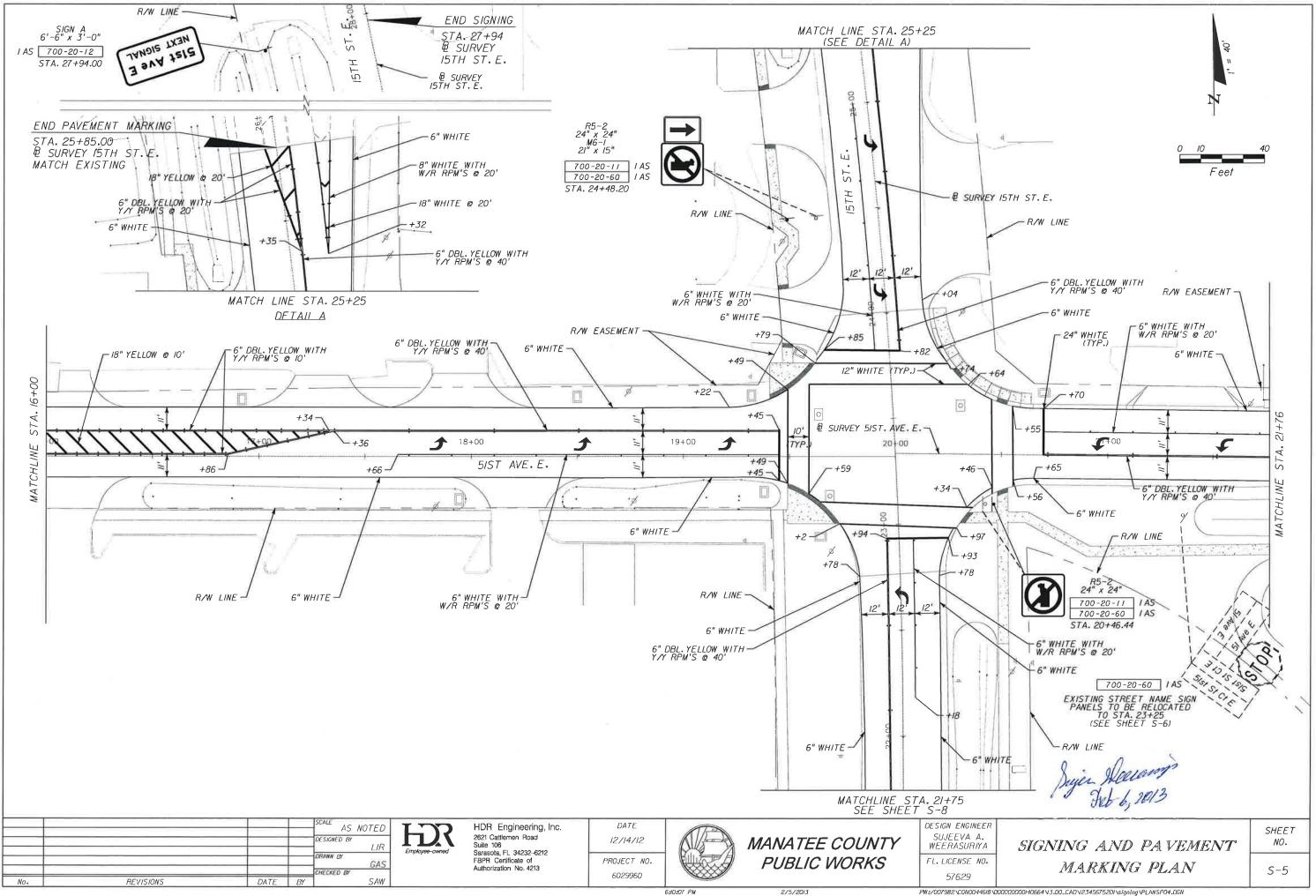
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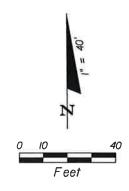
GENERAL NOTES

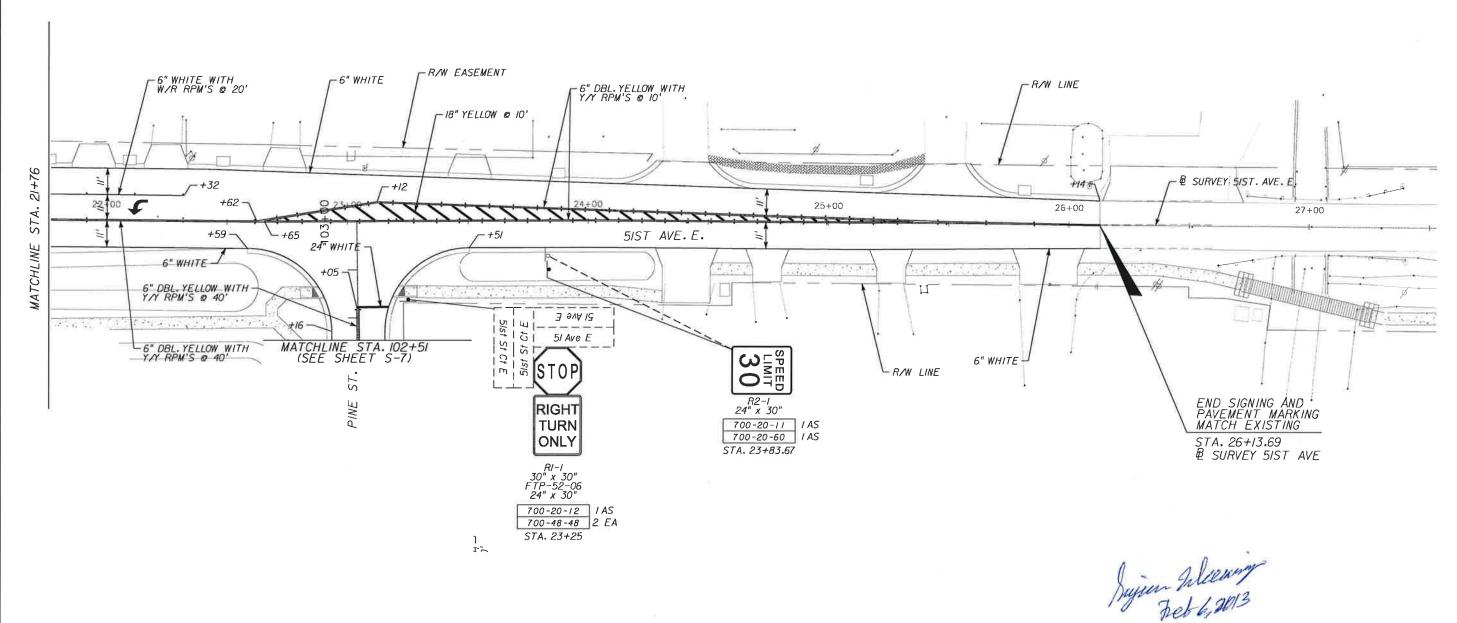
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SCALE AS NOTED

DESIGNED BY

LIR

DRAWN BY

GAS

CHECKED BY

SAW

NO.

REVISIONS

DATE BY

SAW



HDR Engineering, Inc. 2621 Cattlemen Road Suite 106 Sarasota, FL 34232–6212 FBPR Certificate of Authorization No. 4213 DATE
12/14/12
PROJECT NO.

6029960



MANATEE COUNTY
PUBLIC WORKS

DESIGN ENGINEER
SUJEEVA A.
WEERASURIYA
FL. LICENSE NO.

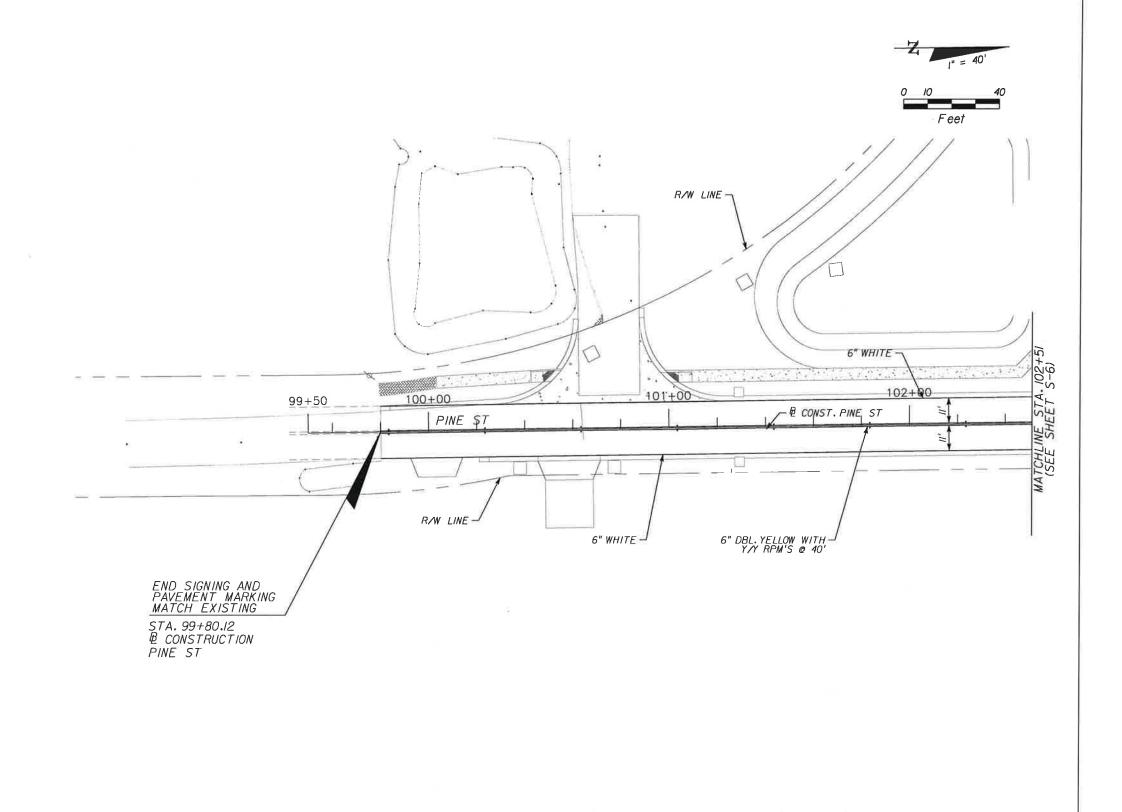
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SIGNING AND PAVEMENT MARKING PLAN SHEET NO.

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2/5/2013



No. REVISIONS DATE BY SCALE AS NOTED

DESIGNED BY LIR

DRAWN BY GAS

CHECKED BY SAW



HDR Engineering, Inc. 2621 Cattlemen Road Suite 106 Sarasota, FL 34232-6212 FBPR Certificate of Authorization No. 4213

DATE
12/14/12
PROJECT NO.

6029960

MANATEE COUNTY
PUBLIC WORKS

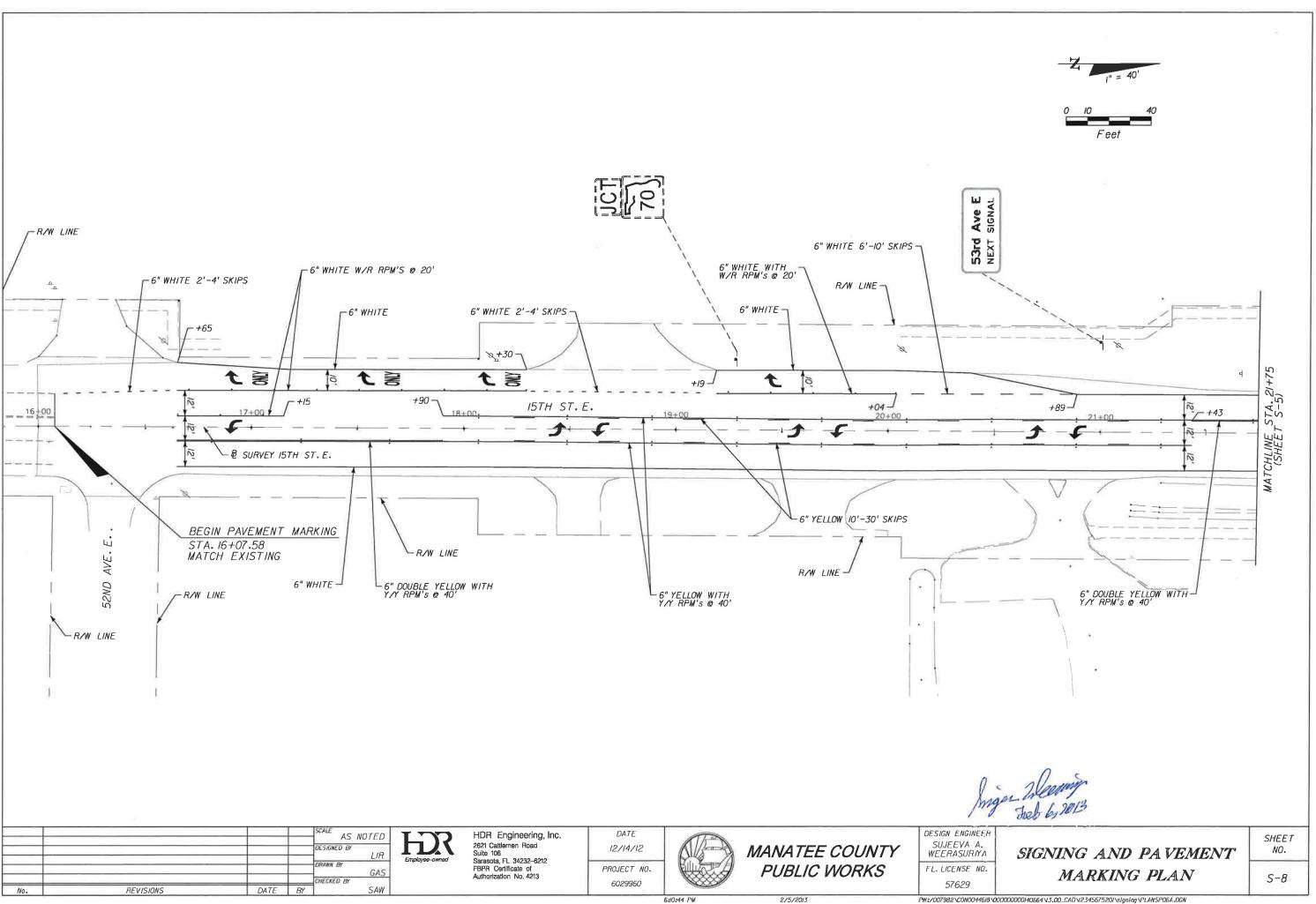
DESIGN ENGINEER
SUJEEVA A.
WEERASURIYA
FL. LICENSE NO.

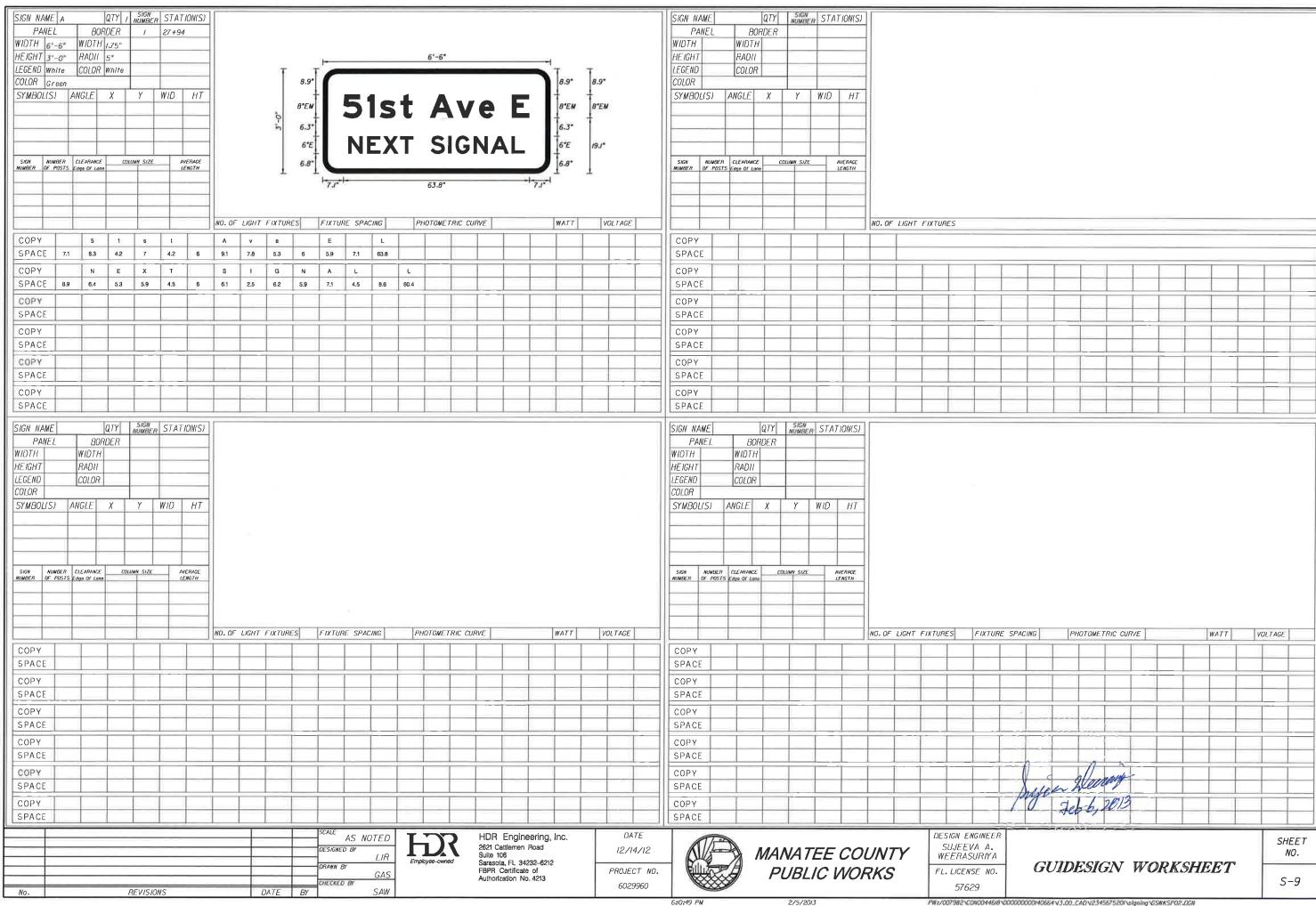
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SIGNING AND PAVEMENT MARKING PLAN SHEET NO.

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MANATEE COUNTY PUBLIC WORKS DEPARTMENT

CONTRACT PLANS

MANATEE COUNTY (6029960)

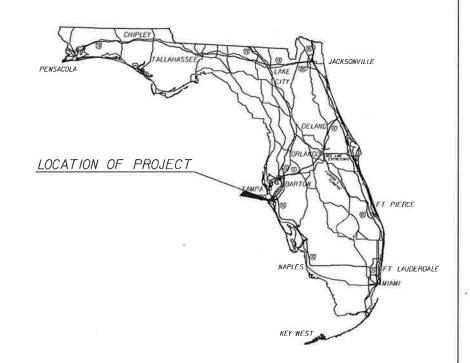
15TH STREET EAST AT 51ST AVENUE EAST

SIGNALIZATION PLANS

INDEX OF SIGNALIZATION PLANS

SHEET NO. SHEET DESCRIPTION T-IKEY SHEET TABULATION OF QUANTITIES T-2T-3 TO T-4 GENERAL NOTES T-5 SIGNALIZATION PLAN T-6 GUIDESIGN WORKSHEET MAST ARM TABULATION T-7 MAST ASSEMBLIES DATA TABLE (STANDARD) T-8REPORT OF CORE BORINGS

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



SIGNALIZATION SHOP DRAWINGS TO BE SUBMITTED TO: SUJEEVA A. WEERASURNYA, P.E. HDR ENGINEERING, INC. 5426 BAY CENTER DRIVE, STE. 400 TAMPA, FLORIDA 33609-3444 PHONE NO. (BI3) 282-2300

PLANS PREPARED BY:
HDR ENGINEERING, INC.
2601 CATTLEMEN ROAD., STE. 400
SARASOTA, FLORIDA 34232-6233
PHONE NO. (941) 342-2700
FAX (941) 342-6589
CONTRACT NO. 12348
VENDOR NO. VF-470680568
CERTIFICATE OF AUTHORIZATION No. 4213

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

KEY SHEET REVISIONS

DATE BY DESCRIPTION

SIGNALIZATION PLANS
ENGINEER OF RECORD: SUJEEVA A. WEERASURIYA, P.E.

57629

FISCAL SHEET NO.

MANATEE COUNTY PROJECT MANAGER: VINCENT CANNA

2/5/2013

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TABULATION OF QUANTITIES

PAY ITEM NO.	DESCRIPTION	UNIT	7	-5								SHEET I	NUMBER:	S							I		TOT THI SHE	s	GRA TO		REF. SHEET
					PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	
555-1-1	DIRECTIONAL BORE (LESS THAN 6")	LF	128																				128		128		
530-1-12	CONDUIT (F & I) (UNDERGROUND)	LF	442																				442		442		-
32-7-1	CABLE, SIGNAL (F&I)	PI	/																				12		12		
635-1-11	PULL & JUNCTION BOXES (F&I) (PULL BOX)	EA	12		_			-															12		12		
639-1-22 639-2-1	ELECTRICAL POWER SERVICE (UNDERGROUND) ELECTRICAL SERVICE WIRE (F&I)	AS LF	415		-							-					_						415		4/5		
641-2-12	PRESTRESSED CONCRETE POLE (F&I) ITYPE P-II SRV. POLE.)	EA	1 7/3	-				1															1		1		
646-1-11	SIGNAL POLE, PEDESTAL (F&I)	EA	6																				6		6		
649-31-202	MAST ARM (F&I) (WS - 130) (SING. ARM) (W/O LUM.) (40')	EA	1 7																				1		1		
649-31-213	MAST ARM (F&I)(WS - 130)(DBL. ARM) (W/O LUM.)(36-70.5')	EA	1																				1		1		
650-1-311	TRAFFIC SIGNAL (F&I) (3 SECT) (1 WAY) (STANDARD)	AS	6																				6		6		
650-1-511	TRAFFIC SIGNAL (F&I) (5 SECT) (1 WAY) (STANDARD)	AS	2																				2		2		-
653-191	PEDESTRIAN SIGNAL (F&I) (LED-COUNTDOWN) (I WAY)	AS	6																				6		6		
653-192	PEDESTRIAN SIGNAL (F&I) (LED-COUNTDOWN) (2 WAY)	AS	1		_												_						1		4		-
663-74-15	VEHICLE DETECTOR ASSEMBLIES (F&I) (VIDEO)	EA EA	7					-															7		7		
665-13 670-5-300	PEDESTRIAN DETECTOR (F&I) (DETECTOR WITH SIGN ONLY) TRAFFIC CONTROLLER ASSEMBLY (INSTALL)	AS	+					-									_						,		— <u> </u>		
670-5-400	TRAFFIC CONTROLLER ASSEMBLY (MODIFY)	AS	+ '					1															,		- 		
685-106	SYSTEM AUX (F&I) (UNINTERRUPTIBLE POWER SOURCE)	EA	1																				1		1		
690-10	TRAFFIC SIGNAL HEAD ASSEMBLY, REMOVAL	EA	8																				8		8		
690-20	SIGNAL PEDESTRIAN ASSEMBLY, REMOVE	EA	4																				4		4		
690-34-1	POLE REMOVAL - DEEP (DIRECT BURIAL)	EA	2																				2		2		
690-60	DETECTOR VEHICLE ASSEMBLY, REMOVE	EA	6																				6		6		
690-80	SPAN WIRE ASSEMBLY REMOVE	EA	1																				1				
690-90	REMOVE CONDUIT & CABLING	PI	1														_										
690-100	SIGNAL EQUIPMENT, MISCELLANEOUS REMOVE	PI	/																				1		4		
699-1-1	INTERNALLY ILLUMINATED SIGN (F&I)	EA LF	4																				20		20		
783-1-421 783-4-112	ITS FO CABLE (RELOCATE) (UNDERGROUND) (2 TO 12) ITS CONDUIT (F&I) (UNDERGROUND)	LF	20						_					-			_						20		20		
783-5-5	ITS PULL BOX FOR FIBER OPTIC CABLE, ADJUST AND MODIFY	EA	1											1									1		1		
103 3 3	173 TOLL BOX TON FIBER OFFIC CABLE, ADDUST AND WODTH		<u> </u>																								
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NO. REVISIONS DATE BY SAW



HDR Engineering, Inc. 2621 Catllemen Road Suite 106 Sarasota, FL 34232-6212 FBPR Certificate of Authorization No. 4213

DATE
12/14/12

PROJECT NO.
6029960



MANATEE COUNTY
PUBLIC WORKS

DESIGN ENGINEER
SUJEEVA A.
WEERASURIYA
FL. LICENSE NO.
57629

TABULATION OF QUANTITIES

SHEET NO. T-2

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2/5/2013

GENERAL NOTES

- I. THE CONTRACTOR SHALL CONTACT MANATEE COUNTY PROJECT MANAGEMENT DIVISION BEFORE STARTING WORK, COUNTY STANDARD UPDATES OR OTHER INFORMATION SHALL BE OBTAINED.
- THE CONTRACTOR SHALL COORDINATE WITH MANATEE COUNTY'S TRAFFIC ENGINEERING DIVISION (941-749-3502), AT LEAST TWO WEEKS, BEFORE ANY CABINET MODIFICATIONS ARE TO BE PERFORMED, MANATEE COUNTY ENGINEERING DIVISION PERSONNEL WILL REVIEW, ASSIST AND PROVIDE TECHNICAL SUPPORT RELEVANT TO ANY FIELD MODIFICATIONS THAT ARE NECESSARY. THE CONTRACTOR MAY OPTION OUT OF THIS PROPOSITION, IF THEY FEEL ASSISTANCE AND OVERSIGHT ARE NOT NECESSARY.
- 3. ONE WEEK PRIOR TO THE BEGINNING OF THE TRAFFIC SIGNAL INSTALLATION OR TURN ON OF A NEW SIGNAL, THE CONTRACTOR SHALL NOTIFY:

MANATEE COUNTY PROJECT MANAGEMENT DIVISION 1026 26TH AVENUE EAST BRADENTON, FLORIDA 34208 PHONE: 941-708-7510

MANATEE COUNTY TRAFFIC ENGINEERING DIVISION 2101 47TH TERRACE EAST BRADENTON, FLORIDA 34203 PHONE: 941-749-3502.

- THE CONTRACTOR SHALL PERFORM ALL WORK AS PER LATEST FDOT SPECIFICATIONS AT TIME OF BID, INCLUDING THE 2013 DESIGN STANDARDS AND THE 2013 FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS WITH CURRENT SUPPLEMENTAL SPECIFICATIONS THERETO, FDOT SPECIFICATIONS SHALL BE FOLLOWED. WHEN FOOT AND MANATEE COUNTY SPECIFICATIONS DIFFER, THE MORE STRINGENT SPECIFICATIONS WILL TAKE PRECEDENCE MANATEE COUNTY TRAFFIC SPECIFICATIONS SHALL BE OBTAINED BY THE CONTRACTOR FROM THE PROJECT MANAGEMENT DIVISION.
- 5. THE PRIME CONTRACTOR SHALL BE RESPONSIBLE FOR THE SIGNAL MAINTENANCE, TIMING AND OPERATION OF ALL SIGNALS AND SIGNAGE FROM THE COMMENCEMENT OF WORK TO FINAL ACCEPTANCE OF THE PROJECT (I.E. EXISTING LOOPS CUT, SYSTEM COMMUNICATION TERMINATED, LANE OR PAVEMENT MODIFICATIONS, PEDESTRIAN MODIFICATIONS). MANATEE COUNTY WILL ASSIST IN PROVIDING EXISTING SYSTEM TIMING WHEN POSSIBLE.
- 6. THE CONTRACTOR SHALL HAVE AN I.M.S.A. CERTIFIED LEVEL II (ELECTRONICS OR ELECTRICAL TECHNICIAN) ON THE JOB SITE AT ALL TIMES WHILE WORK IS BEING PERFORMED. ALL SIGNAL INSTALLATION TECHNICIANS SHALL HAVE A MINIMUM OF I.M.S.A. LEVEL I CERTIFICATION. CERTIFICATIONS OF ALL TECHNICIANS SHALL BE PROVIDED TO THE COUNTY PRIOR TO BEGINNING WORK.

UPON PROJECT COMMENCEMENT THE SIGNAL SUBCONTRACTOR WIND PROJECT COMMENCEMENT THE SIGNAL SUBJOINTRACTOR
SHALL BE AVAILABLE TO RESPOND TO ALL SIGNAL RELATED
MALFUNCTIONS AND POWER OUTAGES. THE CONTRACTOR SHALL
MAINTAIN A ADEQUATE REPAIR INVENTORY, EQUIPMENT AND
NEARBY PERSONNEL TO RESPOND AND CORRECT TRAFFIC SIGNAL MALFUNCTIONS AND MOT RELATED PHASING AND TIMING ISSUES FOR THE DURATION OF THE PROJECT. THE CONTRACTOR SHALL PROVIDE A QUALIFIED SIGNAL TECHNICIAN WHO CAN RESPOND WITHIN A MINIMUM OF TWO HOURS, 24 HOURS A DAY, 7 DAYS

FAILURE TO MEET THE TIME REQUIREMENTS SHALL GIVE THE COUNTY, AT ITS DISCRETION, THE RIGHT TO REQUEST ASSISTANCE FROM THE MANATEE COUNTY SHERIFF'S DEPARTMENT TO CONTROL TRAFFIC FOR THE PERIOD OF TIME UNTIL THE CONTRACTOR RESPONDS AND MAKES THE NEEDED REPAIRS. THE COST FOR THE MANATEE COUNTY SHERIFF'S OFFICE SHALL BE THE CONTRACTOR'S RESPONSIBILITY.

7. PRIOR TO ORDERING MATERIALS, THE SIGNAL CONTRACTOR SHALL CONTACT THE TRAFFIC OPERATIONS DIVISION THROUGH THE PROJECT MANAGEMENT DIVISION AND VERIFY CURRENT COLOR CODES TO BE USED FOR SIGNAL CABLE.

- 8. WHEN A CONTRACTOR IS WORKING ON A SIGNAL IN AN INTERSECTION (INSTALLING CONDUIT IN THE STREET, REMOVING EXISTING SIGNAL (INSTALLING CONDUIT IN THE STREET, REMOVING EXISTING SIGNAL EQUIPMENT, INSTALLING SIGNAL EQUIPMENT, OR TURNING ON OF NEW SIGNAL WHERE A LANE IS CLOSED, THE PROJECT MANAGER 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 LOCAL LAW ENFORCEMENT OFFICE. THE COST OF THE OFFICER SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- 9. DELIVER THREE SETS OF RECORD DRAWINGS TO THE MANATEE COUNTY TRAFFIC ENGINEERING DIVISION MANAGER AT 2101
 47TH TERRACE EAST BRADENTON, FL 34203. RECORD DRAWINGS
 MUST BE DELIVERED TO THE COUNTY 48 HOURS PRIOR TO
 SCHEDULING THE FINAL INSPECTION.
- IO. UPON PASSING THE FINAL INSPECTION THE CONTRACTOR SHALL SEND A WRITTEN REQUEST TO THE PROJECT MANAGEMENT DIVISION AND THE TRANSPORTATION DIVISION TO TRANSFER MAINTENANCE FROM THE CONTRACTOR TO MANATEE COUNTY MANATEE COUNTY WILL
 RESPOND WITHIN 5 WORKING DAYS TO ESTABLISH A TIME TABLE FOR
 THE TRANSFER OF MAINTENANCE RESPONSIBILITY.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE LOCAL THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTRACTING THE LOCAL POWER COMPANY PROVIDING ELECTRICAL POWER TO DETERMINE IF A SERVICE PROCESSING FEE IS REQUIRED. ANY FEE SHALL BE INCLUDED AS PART OF PAYMENT FOR THE ELECTRICAL POWER SERVICE ASSEMBLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS OF THE ELECTRICAL SERVICE. THE CONTRACTOR SHALL COORDINATE THE CONSTRUCTION, INSPECTION AND ENERGIZING OF THE NEW POWER SERVICE IN A TIMELY MANNER IN ORDER TO PROMOTE PROJECT COMPLETION WITHIN CONTRACT TIME
- 12. THE LOCATION OF UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE ONLY. THE EXACT LOCATIONS SHALL BE DETERMINED BY THE CONTRACTOR, VIA SUNSHINE STATE ONE CALL OF FLORIDA, INC., IN COORDINATION WITH UNDERGROUND AND OVERHEAD UTILITY OWNERS. A MINIMUM OF 2 FULL BUSINESS DAYS PRIOR TO DIGGING IS REQUIRED.
- 13. THE CONTRACTOR SHALL NOTIFY THE APPROPRIATE UTILITY COMPANIES AT LEAST 72 HOURS IN ADVANCE OF POLE SETTING OPERATIONS WHERE CONFLICT WITH OVERHEAD ELECTRICAL CONDUCTORS IS EXPECTED AND IN ALL CASES WHERE JOINT USE POLES ARE CALLED FOR.
- 14. THE CONTRACTOR SHALL HAND DIG THE FIRST 48 INCHES OF THE HOLE FOR THE POLE FOUNDATION OR CONDUIT RUN WHERE UTILITIES ARE IN CLOSE PROXIMITY.
- 15. THE CONTRACTOR IS TO DE-WATER THE POLE FOUNDATION EXCAVATION IF THE ELEVATION OF WATER IS HIGHER THAN THE ELEVATION OF THE FOUNDATION RASE.
- 16. ALL MATERIALS, EQUIPMENT, AND OTHER CONTRACTOR SUPPLIED ITEMS SHALL BE INSTALLED AND MAINTAINED ACCORDING TO THE MANUFACTURERS RECOMMENDATIONS, UNLESS SPECIFICALLY DIRECTED OTHERWISE BY MANATEE COUNTY.
- 17. #14 XHHW PULL WIRE SHALL BE INSTALLED IN ALL CONDUITS. AT LEAST 2 FEET OF PULL WIRE SHALL BE ACCESSIBLE AT EACH CONDUIT TERMINATION AND SECURED IN THE PULL BOX OR PLACE OF
- 18. UNLESS OTHERWISE NOTED ALL REMOVED EQUIPMENT EXCEPT CONCRETE POLES SHALL BE TURNED OVER TO MANATEE COUNTY AND DELIVERED TO THE TRAFFIC OPERATIONS DIVISION LOCATED AT 2404 12TH STREET COURT EAST, BRADENTON, FLORIDA 34208, AS DIRECTED BY THE ENGINEER. CONCRETE POLES SHALL BE DISPOSED OF BY THE SIGNAL CONTRACTOR IN AREAS PROVIDED BY THE CONTRACTOR.
- 19. THE CONTRACTOR SHALL CONTACT THE LOCAL POWER COMPANY FOR ITS ASSISTANCE IN PERFORMING ALL NECESSARY WORK UNDER POWER LINES AT SIGNAL POLE LOCATIONS SUCH AS THE INSTALLATION OF SIGNAL CABLE, FIBERGLASS INSULATORS, AND SIGNAL POLES.

AT LOCATIONS WHERE THE REQUIRED VERTICAL CLEARANCE TO THE POWER LINES CANNOT BE MAINTAINED, A QUALIFIED REPRESENTATIVE FROM THE POWER COMPANY SHALL BE PRESENT DURING ALL WORK UNDER POWER LINES. ANY COST ASSOCIATED WITH THIS SHALL BE INCLUDED IN THE RELATED PAY ITEMS.

- 20. ALL ELECTRICAL WIRING SHALL COMPLY WITH ALL APPLICABLE PROVISIONS OF THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE PUBLISHED BY THE NATIONAL FIRE PROTECTION ASSOCIATION.
- 21. GROUNDING: ALL ITEMS SHALL BE GROUNDED IN ACCORDANCE WITH
 FDOT SPECIFICATION SECTION 620 AND THE CURRENT SUPPLEMENTS
 THERETO AT TIME OF BID. ALL COSTS FOR GROUNDING SHALL BE
 INCLUDED IN THE COST OF THE ITEM BEING GROUNDED. ALL GROUND ROD
 ASSEMBLIES FOR POLES, SERVICES, CABINETS, AND OTHER RELATED
 EQUIPMENT SHALL BE BONDED TOGETHER TO FORM AN INTEGRATED
 GROUNDING SYSTEM USING #6 AWG THAN COPPER WIRE. THE UPPER END
 OF ALL CROUND PORS SHALL BE IN INCHES BELOW CROUND FLEVATION OF ALL GROUND RODS SHALL BE 18 INCHES BELOW GROUND RELEVATION.

 MARK GROUND ROD LOCATION WITH PERMANENT MARKER SUCH AS AN
 EPOXIED STICKER LOCATED ON THE NEAREST CURB, AND PROVIDE
 AS-BUILT DRAWINGS WITH THE LOCATION OF GROUND RODS MARKED. GROUNDING CONDUCTOR MUST BE #6 OR LARGER INSULATED COPPER.
- 22. CONNECTING DEVICES SHALL BE NON-CORROSIVE SPLIT BOLTS, CLAMPS, PRESSURE CONNECTORS, OR OTHER APPROVED MEANS TO ENSURE A
- 23. GROUND RESISTANCE TESTER, OR OTHER APPROVED MEANS
 WILL BE USED TO ACQUIRE THE GROUND ROD RESISTANCE. A MEMBER
 OF THE TRAFFIC OPERATIONS DIVISION STAFF SHALL BE PRESENT
- 24. ELEVATION OF THE TOP OF THE MAST ARM FOUNDATION SHALL BE SIX INCHES ABOVE EXISTING GRADE. IF LOCATED DIRECTLY BACK OF SIDEWALK, THE FOUNDATION ELEVATION SHALL MATCH SIDEWALK GRADE.
- 25. IT SHOULD BE NOTED THAT NO TEST BORINGS WERE MADE WHERE CONDUIT RUNS ARE TO BE INSTALLED BY JACKING OR BORING.
- 26. CONTRACTOR SHALL SUPPLY ALL MATERIAL SUBMITTALS TO MANATEE COUNTY TRAFFIC OPERATIONS DIVISION PRIOR TO CONSTRUCTION FOR
- 27. THE TYPE OF EQUIPMENT USED IN THE INSTALLATION OF MAST ARMS/ FOUNDATIONS SHALL MEET THE FOLLOWING REQUIREMENTS: I) OVERHEAD LINES SHALL STAY IN PLACE BOTH VERTICALLY AND HORIZONTALLY; AND 2) CONTRACTOR SHALL MEET ALL APPLICABLE OSHA REQUIREMENTS (10 FOOT MINIMUM DISTANCE MAINTAINED BETWEEN THE EQUIPMENT AND THE ELECTRICAL OVERHEAD FACILITY). ANY COST ASSOCIATED WITH THE TYPE OF EQUIPMENT REQUIRED FOR THIS INSTALLATION IS INCLUDED IN THE RELATED PAY ITEMS.

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HDR Engineering, Inc. 2621 Cattlemen Road Suite 106 Sarasoia, FL 34232-6212 FBPR Certificate of Authorization No. 4213

DATE 12/14/12 PROJECT NO.

6029960

MANATEE COUNTY **PUBLIC WORKS**

DESIGN ENGINEER SUJEEVA A. WEERASURIYA EL. LICENSE NO.

57629

SHEET NO.

GENERAL NOTES

PAY ITEM NOTES

- CONDUITS INSTALLED WITH THE DIRECTIONAL BORE METHOD SHALL BE HDPE WITH A MINIMUM SIZE OF 2" UNLESS OTHERWISE NOTED IN THE PLANS. COST OF PULL WIRE SHALL BE INCLUDED UNDER THIS PAY ITEM.
- 2. 630-1-12: ALL CONDUIT RUNS SHOWN ON THE PLANS ARE SCHEMATIC AND FIELD ADJUSTMENTS MAY BE NECESSARY. WITH THE EXCEPTION OF ELECTRICAL POWER SERVICE DUCTS, JACK & BORE SLEEVES, AND DIRECTIONAL BORE CONDUITS, ALL UNDERGROUND AND UNDER PAVEMENT CONDUITS SHALL BE SCHEDULE 40 PVC WITH A MINIMUM SIZE OF 2" UNLESS OTHERWISE SPECIFIED IN THE PLANS. COST OF PULL WIRE SHALL BE INCLUDED UNDER THIS PAY ITEM.

TWO SEPARATE UNDERGROUND CONDUIT RUNS LOCATED 180 DEGREES APART ARE REQUIRED FOR ALL MAST ARMS. THE SPARE CONDUIT SHALL BE CAPPED IN THE NEAREST PULL BOX. THERE SHALL BE A MINIMUM OF TWO RUNS OF 2" CONDUIT BETWEEN THE LAST LOW VOLTAGE PULL BOX LOCATED NEAR THE CONTROLLER CABINET & THE CONTROLLER CABINET, ITSELF.

- PULL BOXES SHALL BE TRAFFIC BEARING, ALL POLYMER CONSTRUCTION (NOT CONCRETE), PULL BOXES AND LIDS. (QUAZITE OR ANOTHER EQUIVALENT FDOT APPROVED
- 4. 639-1-22: THIS PAY ITEM SHALL INCLUDE THE COST OF ALL SPECIAL IMPACT CONNECTION FEES CHARGED BY LOCAL POWER COMPANIES FOR ELECTRICAL SERVICE CONNECTION. IT SHALL ALSO INCLUDE INSTALLATION OF THE PHOTOELECTRIC CONTROL ASSEMBLY. THE CONTRACTOR SHALL FURNISH & INSTALL A LEVER-TYPE METER SOCKET.

IT SHALL ALSO INCLUDE THE COST OF INSTALLING SERVICE RISER ON FPL SERVICE POLE. THE SERVICE RISER MUST HAVE A WEATHERHEAD TERMINATING AT A POINT 40" MINIMUM BELOW THE BOTTOM OF FPL TRANSFORMER.

- 639-2-1: THE PAYMENT OF THIS ITEM SHALL BE BASED ON THE LINEAR FOOT OF A SINGLE CONDUCTOR.
- THE CONTRACTOR SHALL CONTACT THE LOCAL POWER COMPANY FOR THEIR ASSISTANCE IN PERFORMING ALL NECESSARY WORK UNDER POWER LINES AT SIGNAL POLE(S), SUCH AS THE INSTALLATION OF MAST ARM FOUNDATIONS OR POLES.
- SHALL INCLUDE ADDITIONAL COST TO FURNISH & INSTALL A BREAKAWAY TRANSFORMER BASE, INSIDE DIAMETER OF PEDESTALS SHALL BE 4".
- USE SIGNAL HEAD SUPPORTING TUBE THAT IS CAPABLE OF ADJUSTING VERTICALLY A MINIMUM OF 1.5'. 8. 650-1-311 & 650-1-511:

THE EXTERNAL COLOR OF SIGNAL HOUSING SHALL BE BLACK. ALL TRAFFIC SIGNAL HEAD INDICATIONS SHALL BE 12" LED. ALL SIGNAL HEADS SHALL HAVE TUNNEL VISORS. THE COST FOR THE TUNNEL VISORS SHALL BE INCLUDED UNDER THIS PAY ITEM.

ALL SIGNAL HEADS SHALL HAVE ALUMINUM LOUVERED BACK PLATES INSTALLED BACKPLATES SHALL BE MANUFACTURED FOR THE SIGNAL HEADS USED & INSTALLED AS PER MANUFACTURE'S RECOMMENDATIONS THE BACK PLATE SHALL HAVE A 2" YELLOW REFLECTORIZED (TYPE III REFLECTIVITY) OUTER EDGE BORDER UNLESS SPECIFIED OTHERWISE IN THE PLANS.

653-191: PEDESTRIAN SIGNALS SHALL BE LED COUNTDOWN WITH OVERLAY/FILLED/FILLED HAND AND PEDESTRIAN SYMBOLS, AND SHALL BE ON FDOT APPROVED PRODUCT LIST.

663-74-15:
THE CONTRACTOR SHALL INSTALL THE VANTAGE VIDEO DETECTION SYSTEM IN STRICT
ACCORDANCE WITH THE GUIDANCE CONTAINED IN THE VIDEO DETECTION SYSTEM'S
INSTALLATION MANUALS. THE CONTRACTOR SHALL ONLY USE MANUFACTURER APPROVED
CABLING CONNECTORS AND COMPONENTS TO COMPLETE THE INSTALLATION OF THE VIDEO
DETECTION SYSTEM. THE SIGNAL CONTRACTOR SHALL CONSULT WITH THE TECHNICAL
REPRESENTATIVES PRIOR TO ORDERING THE SYSTEM COMPONENTS AND TO OBTAIN OPTIMUM
CAMERA PLACEMENT AND MOUNTING HEIGHT FOR EACH CAMERA PRIOR TO INSTALLATION.
AFTER THE SYSTEM INSTALLATION IS COMPLETE THE CONTRACTOR SHALL REQUEST A
SYSTEM CRITICULE FROM THE VIDEO DETECTION FOLLOWERN SUPPLY MANUFACTURER SYSTEM CRITIQUE FROM THE VIDEO DETECTION EQUIPMENT SUPPLY MANUFACTURER.
THE RESULTS OF THE SYSTEM CRITIQUE SHALL BE PROVIDED, IN WRITING, TO
MANATEE COUNTY PRIOR TO SCHEDULING THE FINAL INSPECTION OF THE SIGNAL SYSTEM.

SEE PLAN SHEETS FOR THE NUMBER OF VIDEO CAMERAS INCLUDED IN THE VIDEO DETECTION ASSEMBLY.

THE COST OF THIS ITEM SHALL ALSO INCLUDE A FACTORY CERTIFIED REPRESENTATIVE FROM THE SUPPLIER TO BE ON-SITE DURING INSTALLATION &

- //. 665-/3: SHALL INCLUDE ADDITIONAL COST OF LABOR AND MATERIALS REQUIRED FOR INSTALLATION OF PEDESTRIAN SIGNAL SIGN FTP-688-06. THIS SIGN SHALL BE MOUNTED ABOVE EACH PEDESTRIAN DETECTOR. ALL PEDESTRIAN PUSH BUTTONS SHALL BE A.D.A. COMPLIANT. STREET NAMES SHALL BE IN ACCORDANCE WITH THE STREET NAMES ON THE PLAN SHEETS.
- 12. 670-5-330: THIS ITEM SHALL INCLUDE THE INSTALLATION OF CONCRETE BASES FOR THE RELOCATED THIS THEM SHALL INCLUDE THE INSTALLATION OF CONCRETE BASES FOR THE RELOCATED EXISTING CONTROLLER ASSEMBLY AND FOR MOUNTING OF AN EMERGENCY GENERATOR CABINET. THE CONTROLLER ASSEMBLY FOUNDATION SHALL HAVE A MINIMUM OF (4) 2" CONDUIT SPARES. TWO OF THE SPARES SHALL BE TERMINATED IN THE NEAREST FIBER OPTIC PULL BOX AND FITTED WITH WEATHERPROOF CAP. THE OTHER TWO SPARES SHALL BE TERMINATED IN THE SIGNAL CABLE AND LOW VOLTAGE PULL BOXES. THE EMERGENCY GENERATOR CABINET (EGC) BASE SHALL HAVE DIMENSIONS OF 48" x 36"
 FOR CABINET MOUNTING WITH A FDOT STANDARD TECHNICIAN PAD OR STEPS. IT SHALL BE LOCATED ADJACENT TO THE CONTROLLER BASE WITH TWO (2) 2" CONDUITS AND ONE (1) 1- 1/4" CONDUITS INSTALLED DIRECTLY TO THE CONTROLLER BASE. MANATEE COUNTY WITH THE CONTROLLER BASE MANATEE COUNTY WILL FURNISH THE GENERATOR CABINET TO THE CONTRACTOR. THE CONTRACTOR SHALL COORDINATE WITH MANATEE COUNTY TO PICK UP AND INSTALL THE GENERATOR CABINET ON THE NEW FOUNDATION. ALL COSTS OF LABOR, CONCRETE & OTHER CABINE! ON THE NEW FOUNDATION, ALL COSTS OF LABOR, CONCRETE & UTHER MATERIALS FOR THE CONTROLLER ASSEMBLY AND EGC BASES, TECHNICIAN PADS, STEP AS REQUIRED, AND INSTALLATION OF THE GENERATOR CABINET ARE INCLUDED IN THIS PAY ITEM. THE CONTROLLER AND EGC BASE SHALL BE AT LEAST 2' HIGH OR THE SAME ELEVATION AS THE CROWN OF THE ROADWAY, WHICHEVER IS GREATER. THE MAXIMUM DISTANCE FROM THE TECHNICIAN PAD OR STEP TO THE FOUNDATION TOP IS 4". THE CABINET DOORS SHALL OPEN TOWARDS OR PARALLEL TO THE RIGH-OF-WAY LINE AND AWAY FROM TRAFFIC.

WHEN INSTALLING GROUND WIRE IN THE CONTROLLER CABINET, THE COPPER GROUND WIRE SHALL NOT COME IN CONTACT WITH THE ALUMINUM CABINET, EXCEPT AT THE TERMINATION POINT.

THE SIGNAL CONTRACTOR SHALL SIZE THE ELECTRICAL SUPPLY WIRE TO PRESENT A VOLTAGE DROP AT THE SIGNAL HEADS AS SPECIFIED IN SECTION 210-19 OF THE N.E.C.

THE CABINET FIELD WIRING, INCLUDING SIGNAL HEAD WIRING AND LEAD-INS (CABLES, NEUTRALS, AND SPARES) SHALL BE IDENTIFIED FOR DIRECTION AND PHASE WITH CLEARLY MARKED WEATHERPROOF TAGS. THE PROPOSED TAGGING SYSTEM SHALL BE IN ACCORDANCE WITH THE FDOT'S STANDARD SPECIFICATIONS. ONLY WHITE AND WHITE/BLACK CONDUCTORS WILL BE USED AS A NEUTRAL RETURN.

THE HEIGHT OF THE MOUNTING BASE FOR THE SIGNAL CONTROLLER CABINET SHALL BE EQUAL TO OR GREATER THAN THE ELEVATION OF THE CENTER CROWN OF THE ROADWAY.

MODIFY EXISTING CONTROLLER TO ADD VIDEO DETECTION AND AN UNINTERRUPTED POWER SUPPLY UNIT (UPS) AND PERFORM ANY CABINET AND FIELD WIRING NECESSARY.

- THE UNINTERRUPTED POWER SUPPLY UNIT (UPS) SHALL HAVE AN 8 HOUR RUN TIME AT 450 WATTS. ATTACH UPS UNIT TO THE OUTSIDE OF THE CONTOLLER CABINET, INSTALL UPS UNITS IN ACCORDANCE WITH THE MANUFACTURERS SPECIFICATIONS. UPS EQUIPMENT SHALL BE COMPATIBLE WITH MANATEE COUNTY'S EXISTING SYSTEM AND SHALL INCLUDE ETHERNET CONNECTION AND SNMP V3 SUPPORT.
- SHALL INCLUDE REMOVAL OF EXISTING PULL BOXES.
- 16. 699-1-1: ALL INTERNALLY ILLUNMINATED STREET NAME SIGNS SHALL BE EDGE ALL INTERNALLY ILLUMMINATED STREET NAME SIGNS SHALL BE EDGE LIT LED TYPE AND SHALL BE LISTED IN THE FDOT APPROVED PRODUCT LIST. THE COST OF THIS ITEM SHALL INCLUDE PROPERLY DESIGNED AND SIZED ADJUSTABLE HANGERS, BRACKETS, CLAMPS, AND ALL MISCELLANEOUS HARDWARE NECESSARY TO RIGID MOUNT THE SIGNS AS SHOWN IN THE PLANS. THE SIGNS SHALL BE POWERED USING IMSA 50-2 CABLE. THIS ITEM SHALL ALSO INCLUDE INSTALLATION OF THE PHOTOCELL ON THE SERVICE POLE.
- 17. 783-1-421: SHALL INCLUDE ALL COSTS ASSOCIATED WITH ADJUSTING THE EXISTING FIBER OPTIC DROP CABLE.

MANATEE COUNTY **PUBLIC WORKS**

DESIGN ENGINEER SUJEEVA A. WEERASURIYA FL. LICENSE NO.

GENERAL NOTES

SHEET NO.

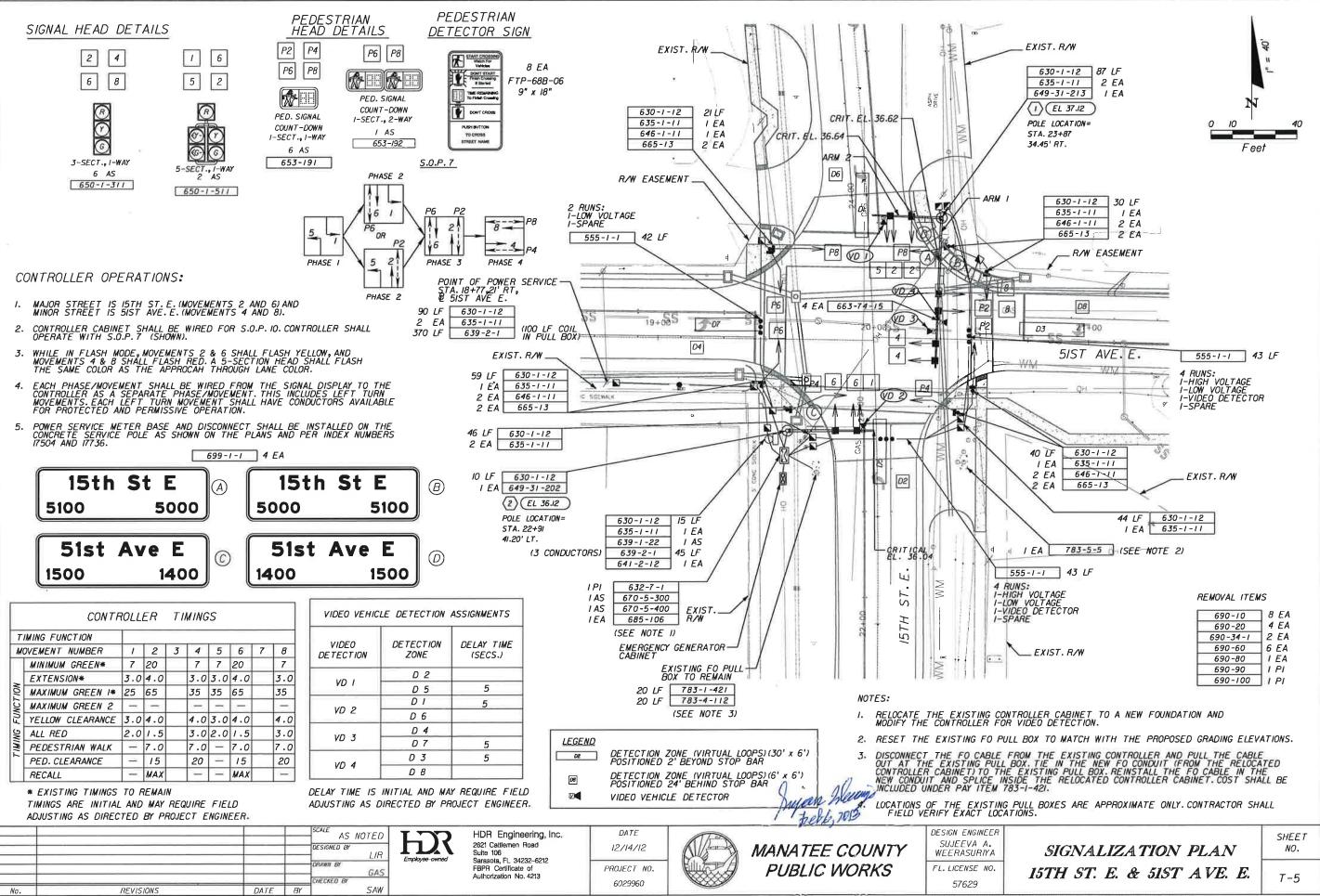
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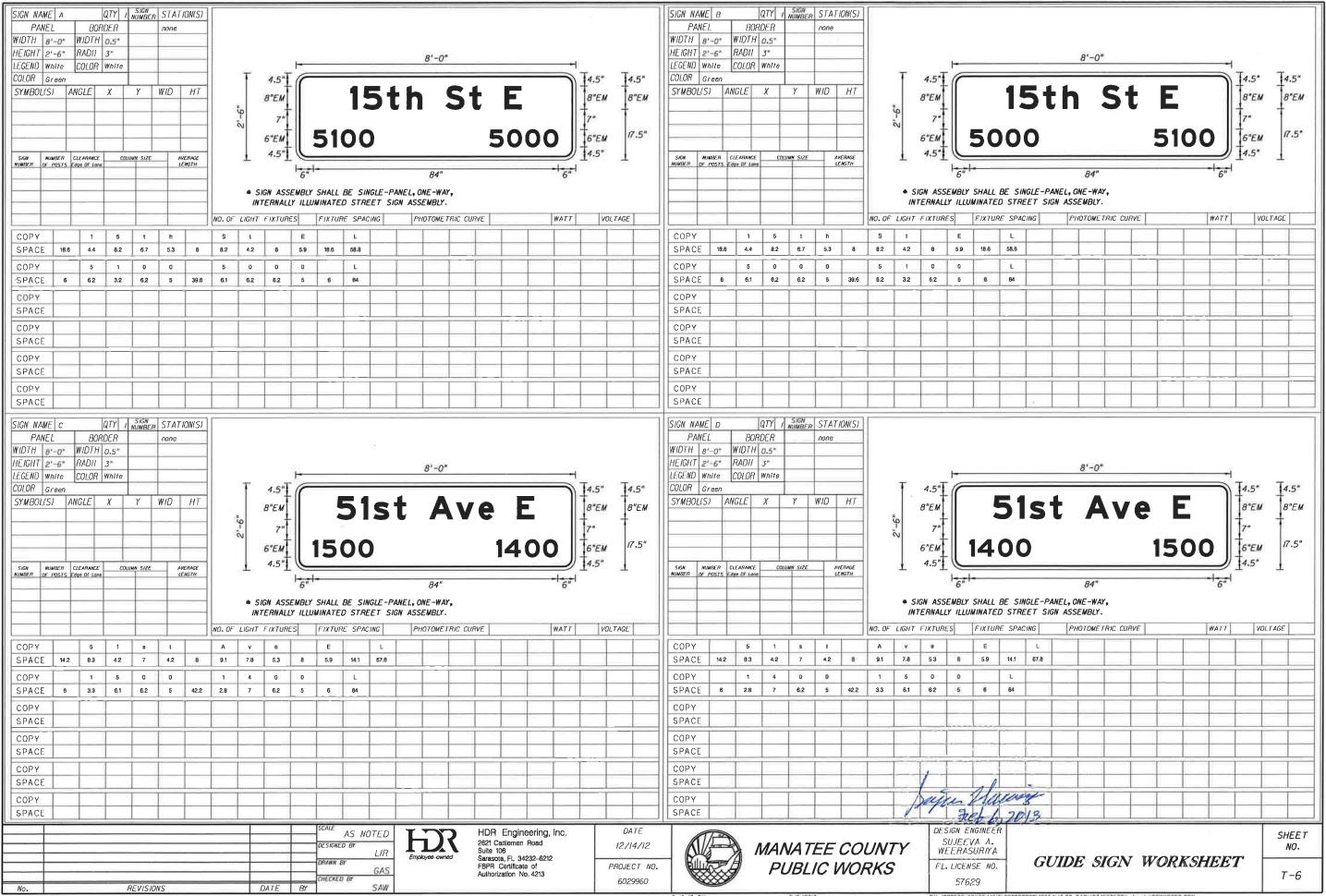
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DATE 12/14/12 PROJECT NO.

6029960





** A POSITIVE ELEVATION DIFFERENTIAL INDICATES THE POLE LOCATION IS LOWER THAN THE CRITICAL ROADWAY ELEVATION, SEE ELEVATION DIFFERENTIAL DETAIL.

IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD VERIFY THE ELEVATION DIFFERENTIAL PRIOR TO POLE MANUFACTURING.

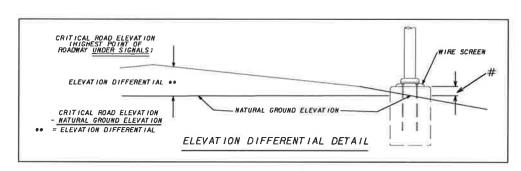
CONTRACTOR SHALL ALSO INSURE THAT TOP OF POLE FOUNDATION WILL NOT BE INSTALLED BELOW NATURAL GROUND LEVEL.

INFORMATION BELOW IS FOR DESIGN PURPOSES ONLY. FIELD ADJUSTMENTS MAY BE REQUIRED.

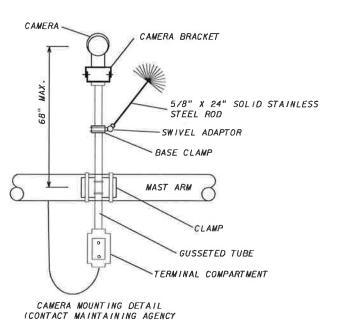
SEE APPROPRIATE PLAN SHEET FOR PROPOSED SIGNAL HEAD ALIGNMENTS AND SIGN CONFIGURATION/LOCATION.

SPECIAL REQUIREMENTS:

A. ANCHOR BOLT COVERS (ORNAMENTAL, NON-ORNAMENTAL, AND/OR PAINTED) SHALL BE GALVANIZED STEEL OR CAST ALUMINUM AND SHALL BE SECURED BY A MINIMUM OF TWO (2) THREADED FASTENERS. THE BOLT COVERS SHALL BE OF SUFFICIENT SIZE SO THAT THERE IS NO GAP BETWEEN ITSELF AND THE POLE SHAFT.



SHOP DRAWINGS AND SUPPORT CALCULATIONS ARE REQUIRED FOR POLE CANTILEVER ARMS AND HARDWARE WHEN INTERNALLY ILLUMINATED STREET NAME SIGNS EXCEED 12 SQUARE FEET AND/OR 75 LBS. SEND SHOP DRAWINGS AND SUPPORT CALCULATIONS TO DISTRICT ONE STRUCTURES DEPARTMENT AT 801 NORTH BROADWAY AVE., BARTOW FLORIDA 33830.



FOR MOUNTING PREFERENCES.)

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NO.	PED. BUTTON	PED. SIGNALS	HANDHOLE LOCATION
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* DENOTES NUMBER OF SECTIONS IN SIGNAL HEAD ASSEMBLY

					·/										SIGN	IAL D	ATA																		510	GN DA	4 <i>TA</i>							DIS7	DEO FANCE	LUMINA	IAIRE	$D\Delta T$
STRUC ID.	LUC	SHE		LOCATION	# FOUNDATION	ROWY	## E1	SIGNAL	BACK PLATES	PED.						DIS	TANCE	FRO	M PO	LE						TOTAL ARM	ARM	Z BETWEEN DUAL ARMS			DIS	TANCE	FRO	M PC	OLE /	/ HE	IGHT	AND V	NIDTH	I OF	SIGN			1 / /	10/0			
NO.	NO.	NO	10=	BY STA.	FOUNDATION OUT OF GROUND	NO.	EL. DIFF.	V/H	Y/N	Y/N	1	*	2	*	3	*	4	* 5	*	6	*	7	*	8	*	LENGTH	M.H.	90/270	A	НІ	W/	В	Н2	w2	С	Н3	W3	D	H4	W4	Ε	H5	W5		2	MOUNT HEIGI	HT	WG
1	1	T-	-5	23+87	0.50	_	-0.50	_	Y	N	35.5	3	43.5	3	59	3	67 .	3								70	20	270	19	2.5	8 -	27	2.5	8										49	53			
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MANATEE COUNTY
PUBLIC WORKS

DESIGN ENGINEER
SUJEEVA A.
WEERASURIYA
FL. LICENSE NO.

MAST ARM TABULATION

SHEET NO. T-7

					51	ANDARD	MAST	ARM AS	SSEMBLI	ES DAT	A TABLE	Ξ						Table De	ate 01-01-12
STRUCTURE	ASSEMBLY NUMBERS		FIRST ARM	1	Si	ECOND ARI		,,,,	.,		PO	LE			SI	PECIAL DR	TLLED SHA	FT (4)	
ID NUMBERS	NUMBERS	ARM TYPE	FAA ⁽²⁾ (ft.)	FBA ⁽²⁾ (in.)	ARM TYPE	FAA ⁽²⁾ (ft.)	FBA ⁽²⁾ (in.)	UF (deg)	(deg)	POLE TYPE	UAA ⁽³⁾ (ft.)	UB (ft.)	UCA ⁽³⁾ (in.)	DA (ft.)	DB (ft.)	RA	RB	RC	RD (in.)
POLE 1	D6-D2-S4	D6	38.9	9.56	D2	32.0	9.52	270		S4	22	20	22.92						
POLE 2	E3-T2	E3	30.3	7.9						T2	22	20	12.92	13	4	11	14	10	12

TABLE NOTES:

1. Assembly Number Legend

First Arm Type - Second Arm Type - Pole Type = D# - D# - S# = E# - E# - T#

- 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".
- 4. The foundations for Standard Mast Arm Assemblies are pre-designed and are based upon the following conservative soil criteria which covers the great majority of soil types found in Florida. Only complete the "Special Drilled Shaft" data information if site conditions dictate drilled shafts with additional foundation

Classification = Cohesionless (Fine Sand) Friction Angle = 30 Degrees (30°) Unit Weight = 50 lbs./cu. ft. (assumed saturated)

GENERAL NOTES:

- Work this sheet with the Signal Designer's "Mast Arm Tabulation". See "Mast Arm Tabulation" for special instructions that include non-standard Handhole location, paint color, terminal compartment requirement, and pedestrian features.
- 2. Work with Index Nos. 17743 and 17745.
- See Section 649 of the FDOT Specifications for Galvanized Mast Arm Assembly.
- Design based on borings taken and signed & sealed by Larry P. Moore, P.E. of Tierra, Inc. dated December 16, 2010.
- Soil parameters used for Special Drilled Shaft (for Pole 1).

Classification = Cohesionless (Fine Sand) Friction Angle = 29 Degrees (29°) Unit Weight = 42.6 lbs./cu. ft. (assumed saturated)

SK REVISIONS DATE



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DATE 12/14/12 PROJECT NO. 6029960

MANATEE COUNTY **PUBLIC WORKS**

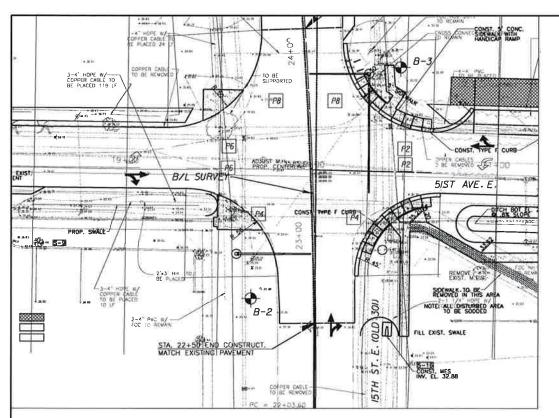
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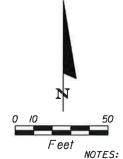
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MAST ARM ASSEMBLIES DATA TABLE (STANDARD) SHEET NO.

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- WEATHERED LIMESTONE WAS ENCOUNTERED WITHIN THE BORING
 DEPTHS. FOUNDATION EXCAVATION INTO AND/OR THROUGH THIS MATERIAL
 MAY BE DIFFICULT AND MAY REQUIRE SPECIALIZED EQUIPMENT. THE
 CONTRACTOR SHOULD BE PREPARED FOR EXCAVATION INTO OR THROUGH THIS MATERIAL.
- TEMPORARY CASING FOR SHAFT INSTALLATION MAY BE REQUIRED IN ORDER TO PREVENT THE COLLAPSE/SLOUGHING OF THE SANDY SOILS AND/OR GROUNDWATER INTRUSION DURING THE SHAFT EXCAVATION.
- STATION, OFFSET AND ELEVATION OF BORINGS WERE ESTIMATED USING MICROSTATION FILES IN CONJUNCTION WITH THE UTM COORDINATES OBTAINED IN THE FIELD BY TIERRA, INC. USING A GPS DEVICE AND THEREFORE SHOULD BE CONSIDERED APPROXIMATE.

LEGEND

PALE BROWN TO BROWN FINE SAND TO FINE SAND WITH SILT (SP/SP-SM)

WEATHERED LIMESTONE

SP

GREEN SANDY CLAY TO CLAY (CL/CH)

- UNIFIED SOIL CLASSIFICATION SYSTEM (ASTM D 2487) GROUP SYMBOL AS DETERMINED BY VISUAL REVIEW NUMBERS TO THE LEFT OF BORINGS INDICATE
- SPT VALUE FOR 12 INCHES OF PENETRATION (UNLESS OTHERWISE NOTED). NUMBER OF BLOWS FOR 4 INCHES OF PENETRATION
- HAND AUGERED TO VERIFY UTILITY CLEARANCE
- GROUNDWATER LEVEL ENCOUNTERED DURING
- FIELD EXPLORATIONS APPROXIMATE SPT BORING LOCATION

B/L SURVEY BASELINE OF SURVEY OF 15TH ST. E. (OLD 301)

NATIONAL GEODETIC VERTICAL DATUM OF 1929

BORING LOCATION PLAN

	BOR # B-2 STA. 22+65 REF. B/L SURVEY OFF 34 LT ELEV. 35.4 DATE 12/6/2010 DRILLER 1. POORAN HAMMER SAFETY RIG D-25	BOR # B-3 STA. 23+88 REF. B/L SURVEY OFF 32. RT ELEV. 35.8 DATE 12/6/2010 DRILLER 12/00RAN HAMMER SAFETY RIG D-25	*
20 01 35 20 20 20 20 20 20 20 20 20 20 20 20 20	HA H	SAND V 6 PALE BROWN TO BROWN TO FINE SAND WITH SILL STORE SO/2 BORING TERMINATED AT ELEVATION 5.8 FT (NGVD)	FINE SAND 25 20 15 FEEL (NGVD) 5 5 47673
		C HOTEO E OR LLARDY & HODE DE	IDA STEED

				SOIL PAR	AMETERS				
BORING DEPTH NUMBER		N	SOIL CLASSIFICATION		UNIT T (PCF)	SOIL ANGLE OF FRICTION (DEGREES)	COHESION (PSF)	PRES COEFF	ICIENT
				¥ SAT	Y SUB	(DEGNEES)		ACTIVE (Ka)	PASSIVE (Kp)
8-2	0 to 6 6 to 18.5 18.5 to 30	HA 10 to 17 50/6 to 50/1	SP/SP-SM SP/SP-SM WEATHERED LIMESTONE	105 110 135	42.6 47.6 72.6	29 30 0	0 0 12000*	0.347 0.333 1.000	2.88 3.00 1.00
B-3	0 to 8 8 to 18.5 18.5 to 30	HA to 6 16 to 20 78/II to 50/2	SP/SP-SM SP/SP-SM WEATHERED LIMESTONE	105 110 135	42.6 47.6 72.6	29 30 0	0 0 12000*	0.347 0.333 1.000	2.88 3.00 1.00

* ULTIMATE SHEAR STRENGTH

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

15TH STREET EAST/51ST AVENUE EAST

P.E. LICENSE NUMBER OF NALE 2/10/10 AS NOTED BJS Tierra Inc BJS 7351 TEMPLE TERRACE HIGHWAY, TAMPA, FL. 33637 6029960 CERTIFICATE OF AUTHORIZATION: 6486 REVISIONS DATE RY



DESIGN ENGINEER LARRY P. MOORE FL. LICENSE NO.

REPORT OF CORE BORINGS

SHEET NO.

GT-I