

COMPONENTS OF CONTRACT PLANS SET  
 ROADWAY PLANS  
 SIGNING AND PAVEMENT MARKING PLANS  
 SIGNALIZATION/LIGHTING PLANS

LEE COUNTY  
 DEPARTMENT OF TRANSPORTATION

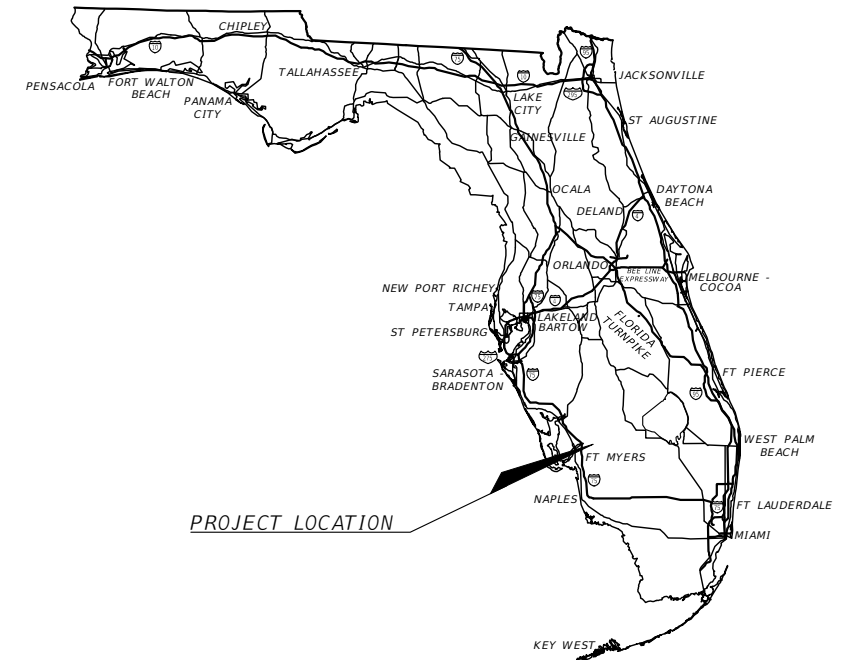
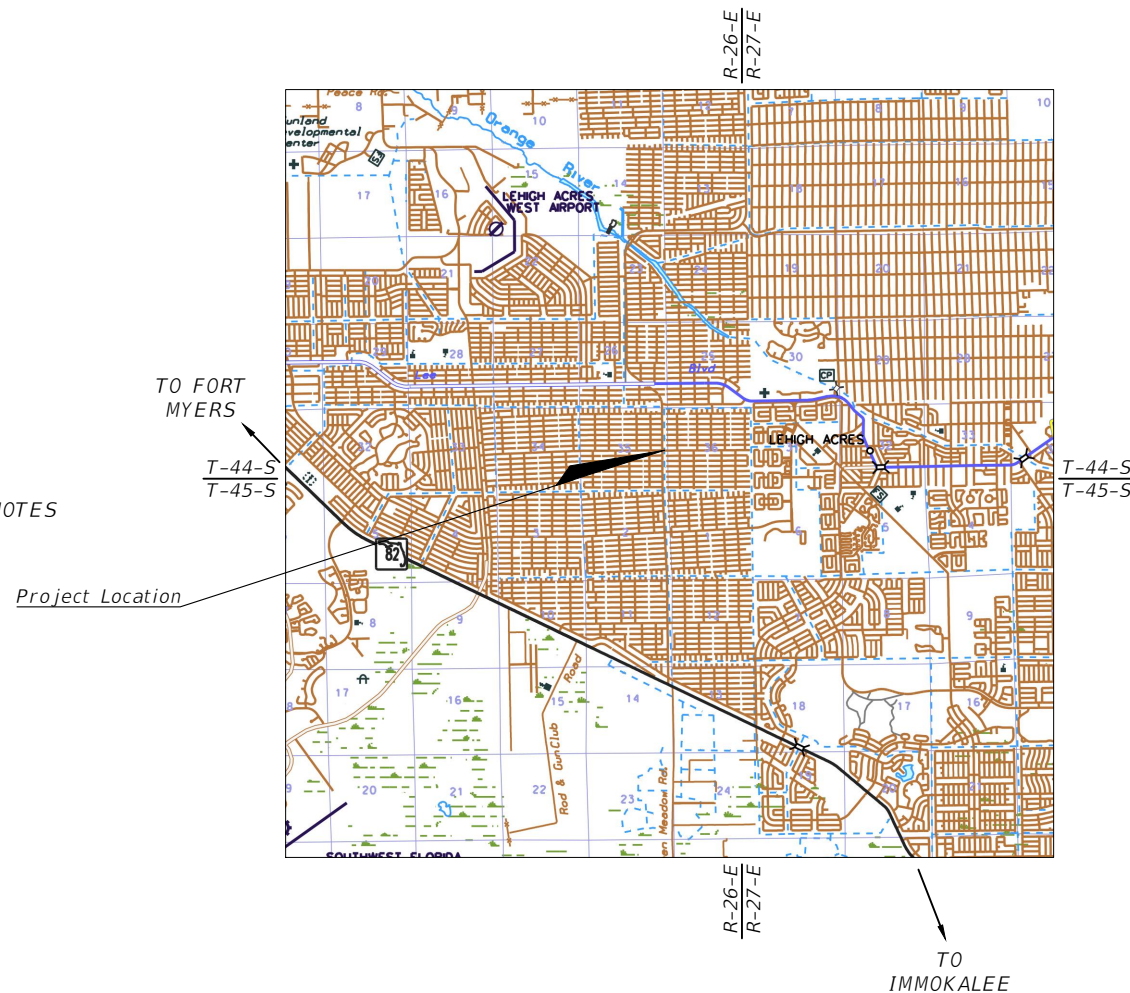
CONTRACT PLANS

LEE COUNTY

SUNSHINE BLVD & 8TH STREET SW  
 INTERSECTION

INDEX OF ROADWAY PLANS

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PROJECT LOCATION



ROADWAY PLANS  
 ENGINEER OF RECORD:

DANIEL M. CRAIG, P.E.  
 P.E. NO.: 38590  
 DAVID DOUGLAS ASSOCIATES, INC.  
 1821 VICTORIA AVE  
 FORT MYERS, FL 33901  
 CERTIFICATE OF AUTHORIZATION NO.: 7568

LCDOT PROJECT MANAGER:  
 ALEJANDRO SLAIBE, P.E.

GOVERNING STANDARD PLANS:  
 Florida Department of Transportation, FY2018-19 Standard plans for Road and Bridge Construction and applicable Interim Revisions (Irs).

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

APPLICABLE IRs: IR536-001-01, IR521-001-01

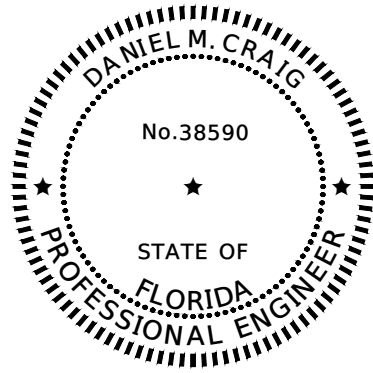
Standard Plans for Bridge Construction are included in the Structures Plans Component.

GOVERNING STANDARD SPECIFICATIONS:  
 Florida Department of Transportation, July, 2018 Standard Specifications for Road and Bridge Construction at the following website:  
<http://www.fdot.gov/programmanagement/Implemented/SpecBooks>

LEE COUNTY SOLICITATION NO.	FISCAL YEAR	SHEET NO.
CN160311	18	1

100% Plans Submittal

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

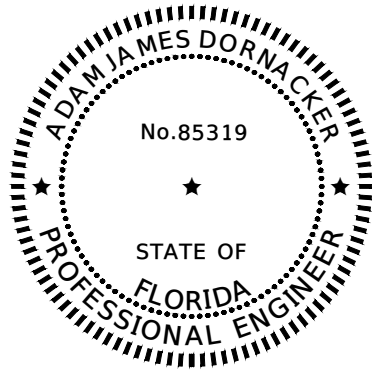


DAVID DOUGLAS ASSOCIATES, INC.  
 1821 VICTORIA AVE  
 FORT MYERS, FL 33901  
 PHONE NO.: 239-337-3330  
 CERTIFICATE OF AUTHORIZATION NO. 7568  
 DANIEL M. CRAIG, P.E. 38590

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

PLAN INDEX

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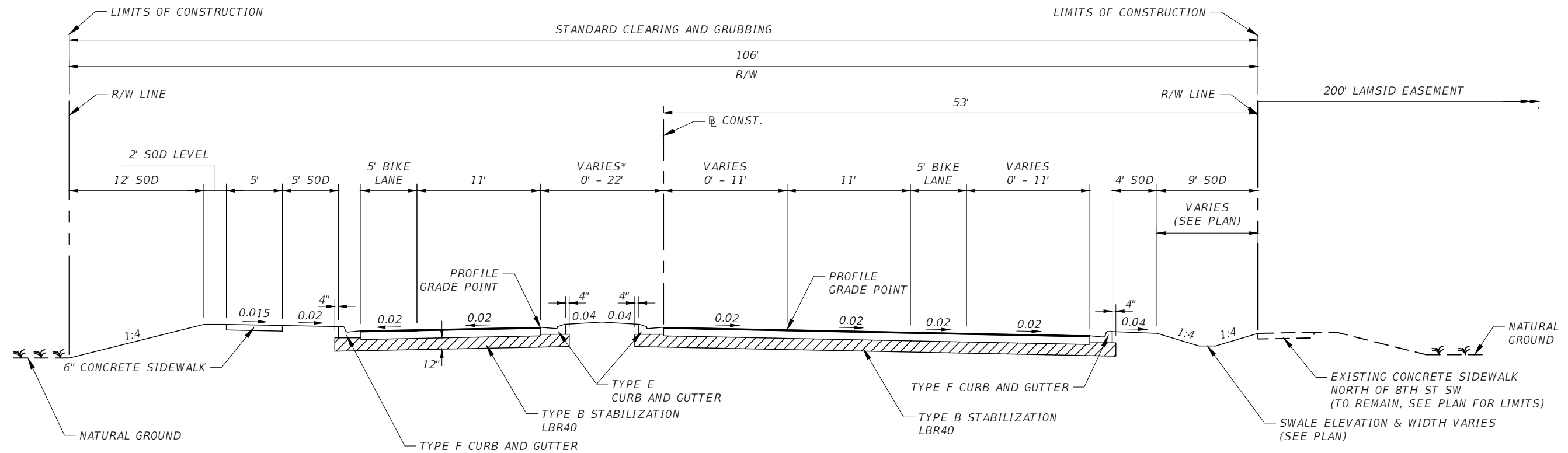
GFA INTERNATIONAL  
 201 WALDO AVE NORTH  
 LEHIGH ACRES, FL 33971  
 PHONE NO.: 239-489-2443  
 CERTIFICATE OF AUTHORIZATION NO. 4930  
 ADAM JAMES DORNACKER, P.E. 85319

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

PLAN INDEX

- 20 ROADWAY SOIL SURVEY

R E V I S I O N S				DANIEL M. CRAIG, P.E. P.E. LICENSE NUMBER 38590 DAVID DOUGLAS ASSOCIATES, INC. 1821 VICTORIA AVE FORT MYERS, FLORIDA 33901 CERTIFICATE OF AUTHORIZATION 7568	<b>LEE COUNTY</b> <b>DEPARTMENT OF TRANSPORTATION</b>			<b>SIGNATURE SHEET</b>	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NAME	COUNTY	LEE COUNTY NO.		2
					SUNSHINE BLVD.	LEE	CN160311		



**TYPICAL SECTION  
SUNSHINE BLVD.  
STA. 103+56.66 TO STA. 117+23.06**

**NEW CONSTRUCTION**

OPTIONAL BASE GROUP 9\* WITH  
TYPE SP12.5 (STRUCTURAL COURSE) (TRAFFIC C) (2 1/2")  
AND TYPE FC9.5 (FRICTION COURSE) (TRAFFIC C) (1")

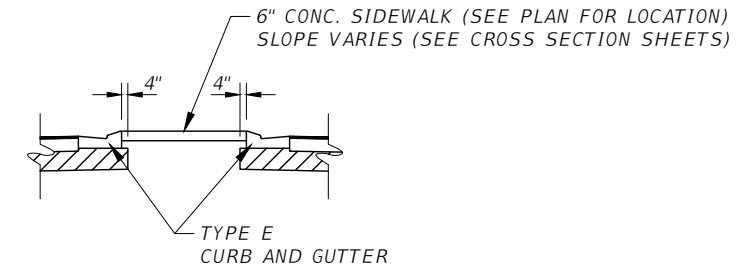
**TYPICAL SECTION  
SUNSHINE BLVD.  
STA. 117+23.06 TO STA. 117+43.06**

**MILLING**

MILL EXISTING ASPHALT  
PAVEMENT FOR DEPTH (1")

**RESURFACING**

AND TYPE FC9.5 (FRICTION COURSE) (TRAFFIC C) (1")



**\*CONCRETE MEDIAN DETAIL**  
(SPECIAL CONCRETE MEDIAN DETAIL,  
SEE PLAN FOR LOCATIONS)

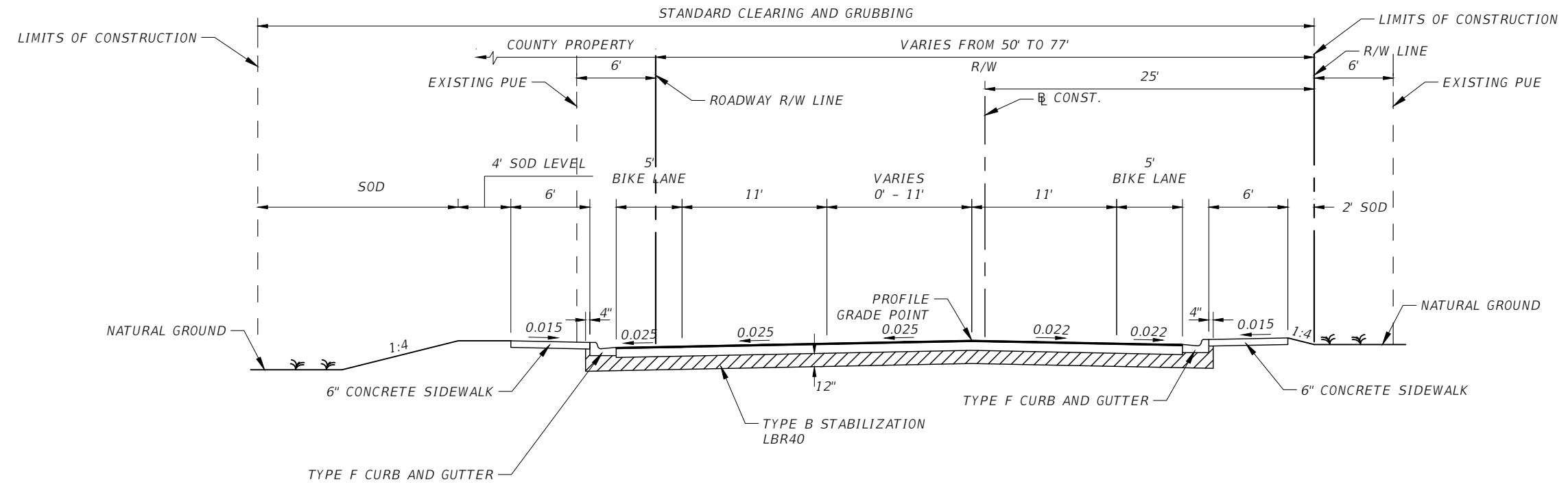
**TYPICAL SECTION NOTES:**

1. OPTIONAL BASE GROUP SHALL EXCLUDE BANKRUN SHELL AND SHELL ROCK.
2. EARTHWORK CALCULATIONS BASED UPON THE LIMEROCK BASE OPTION.
3. TYPICAL SECTION IS MIRRORED FROM OUTSIDE CURB LINE TO OUTSIDE CURB LINE BEGINNING AT STA. 110+44.91 TO STA. 117+23.01.
4. CONTRACTOR TO COMPACT SOIL UNDER SIDEWALKS TO 98% MAX DENSITY AS DETERMINED T-99 MOD. PROCTOR.
5. FRONT & BACK SWALE SLOPES SHOWN ARE TYPICAL, REFER TO CROSS SECTION AND PLAN & PROFILE SHEETS FOR ACTUAL SLOPES.

**TRAFFIC DATA**

CURRENT YEAR = 2016 AADT = 7,500  
ESTIMATED OPENING YEAR = 2020 AADT = 8,662  
ESTIMATED DESIGN YEAR = 2038 AADT = 16,562  
K = 9% D = 51% T = 2% (24 HOUR)  
DESIGN HOUR T = 2%  
DESIGN SPEED = 45 MPH

REVISIONS				DANIEL M. CRAIG, P.E. P.E. LICENSE NUMBER 38590 DAVID DOUGLAS ASSOCIATES, INC. 1821 VICTORIA AVE FORT MYERS, FLORIDA 33901 CERTIFICATE OF AUTHORIZATION 7568	LEE COUNTY DEPARTMENT OF TRANSPORTATION			<b>TYPICAL SECTION</b>	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NAME	COUNTY	LEE COUNTY NO.		3
----	----	----	----		SUNSHINE BLVD.	LEE	CN160311		



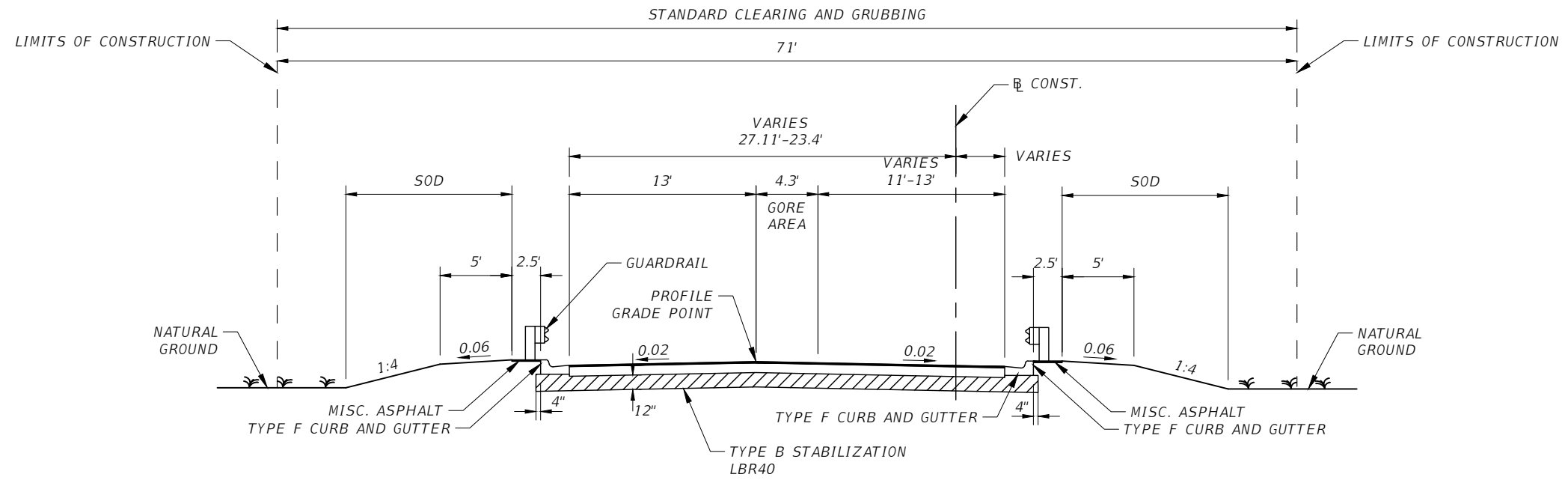
**TYPICAL SECTION  
8TH STREET SW  
STA. 203+56.49 TO STA. 207+97.68**

DESIGN SPEED = 35 MPH

**NEW CONSTRUCTION**  
OPTIONAL BASE GROUP 6 WITH  
TYPE SP12.5 (STRUCTURAL COURSE) (TRAFFIC C) (1 1/2")  
AND TYPE FC9.5 (FRICTION COURSE) (TRAFFIC C) (1")

- TYPICAL SECTION NOTES:**
1. SEE PLAN VIEW FOR R/W LIMITS.
  2. OPTIONAL BASE GROUP SHALL EXCLUDE BANK RUN SHELL AND SHELL ROCK.

REVISIONS				DANIEL M. CRAIG, P.E. P.E. LICENSE NUMBER 38590 DAVID DOUGLAS ASSOCIATES, INC. 1821 VICTORIA AVE FORT MYERS, FLORIDA 33901 CERTIFICATE OF AUTHORIZATION 7568	<b>LEE COUNTY</b> <b>DEPARTMENT OF TRANSPORTATION</b>			<b>TYPICAL SECTION</b>	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NAME	COUNTY	LEE COUNTY NO.		4
----		----			SUNSHINE BLVD.	LEE	CN160311		



**TYPICAL SECTION**  
**8TH STREET SW**  
**STA. 300+50.97 TO STA. 301+19.42**  
 STATIONING BEGINS AT PT OF NE RETURN

DESIGN SPEED = 30 MPH

**NEW CONSTRUCTION**

OPTIONAL BASE GROUP 6 WITH  
 TYPE SP12.5 (STRUCTURAL COURSE) (TRAFFIC C) (1 1/2")  
 AND TYPE FC9.5 (FRICTION COURSE) (TRAFFIC C) (1")

TYPICAL SECTION NOTES:

1. LIMITS OF CONSTRUCTION ARE FROM END OF FLUME TO END OF FLUME. RIP RAP AREA AT THE END OF THE FLUMES IS IN ADDITION TO THESE LIMITS.
2. SOD ALL DISTURBED AREAS.

REVISIONS				DANIEL M. CRAIG, P.E. P.E. LICENSE NUMBER 38590 DAVID DOUGLAS ASSOCIATES, INC. 1821 VICTORIA AVE FORT MYERS, FLORIDA 33901 CERTIFICATE OF AUTHORIZATION 7568	LEE COUNTY			<b>TYPICAL SECTION</b>	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		DEPARTMENT OF TRANSPORTATION				5
----	----	----	----		ROAD NAME	COUNTY	LEE COUNTY NO.		
					SUNSHINE BLVD.	LEE	CN160311		

SUMMARY OF DRAINAGE STRUCTURES																					
QTY	STR. NO.	STATION	SIDE	DESCRIPTION	B R L S	STORM AND CROSS DRAIN OPTIONAL TYPE						MES			INLETS				DBI		REMARKS
						ROUND				OTHER		ROUND		OTHER	P-5	P-6	J-5	J-6	E	C	
						18"	24"	30"	36"	18"	24"	30"	24"	36"	30"	<10'	<10'	<10'	<10'	<10'	
P	S-1	105+94.22	LT	INLET/PIPE	1			13												1	
F																					
P	S-2	105+94.25	LT	INLET/PIPE	1				49											1	
F																					
P	S-3	105+94.25	RT	INLET/PIPE	1				10											1	
F																					
P	S-4	105+94.25	RT	INLET/PIPE	1				74											1	
F																					
P	S-5	105+94.24	RT	MES	1							1									
F																					
P	S-6	107+35.61	RT	INLET/PIPE	1	138														1	
F																					
P	S-7	107+80.00	LT	INLET/PIPE	1		16													1	
F																					
P	S-8	107+80.00	LT	INLET/PIPE	1		182													1	
F																					
P	S-9	108+80.00	RT	INLET/PIPE	1	141														1	
F																					
P	S-20	111+87.61	LT	INLET/PIPE	1					43										1	
F																					
P	S-21	112+05.00	LT	INLET/PIPE	1					77						1				1	
F																					
P	S-22	112+05.01	RT	INLET/PIPE	1					73										1	
F																					
P	S-23	112+05.04	RT	MES	1							1									
F																					
P	S-24	113+00.00	LT	INLET/PIPE	1	92										1				1	
F																					
P	S-25	113+00.00	RT	INLET/PIPE	1	92										1				1	
F																					
P	S-26	114+20.00	LT	INLET/PIPE	1	117										1				1	
F																					
P	S-27	114+20.00	RT	INLET/PIPE	1	117										1				1	
F																					
P	S-30	116+40.03	LT	INLET/PIPE	1					20										1	
F																					
P	S-31	116+40.00	LT	INLET/PIPE	1		34									1				1	
F																					
P	S-32	116+40.00	RT	INLET/PIPE	1		10									1				1	
F																					
P	S-32A	116+40.00	RT	INLET/PIPE	1		81													1	
F																					
P	S-33	116+40.00	RT	MES	1							1									
F																					
P	S-40	204+24.92	RT	INLET/PIPE	1				8											1	
F																					
P	S-41	204+35.00	RT	INLET/PIPE	1				67							1				1	
F																					
P	S-42	204+35.00	LT	INLET/PIPE	1				31							1				1	
F																					
P	S-43	205+04.92	RT	INLET/PIPE	1	78														1	
F																					
P	S-44	205+85.00	RT	INLET/PIPE	1		47													1	
F																					
P	S-45	205+85.00	LT	INLET/PIPE	1		12									1				1	
F																					
P	S-46	205+85.01	LT	INLET/PIPE	1			126												1	
F																					
P	S-47	206+64.92	RT	INLET/PIPE	1	78														1	
F																					
P	S-48	207+14.62	LT	INLET/PIPE	1			96												1	
F																					
TOTAL						853	382	235	133	106	20	193	1	1	1	10	2	1	2	9	4

100% Plans Submittal

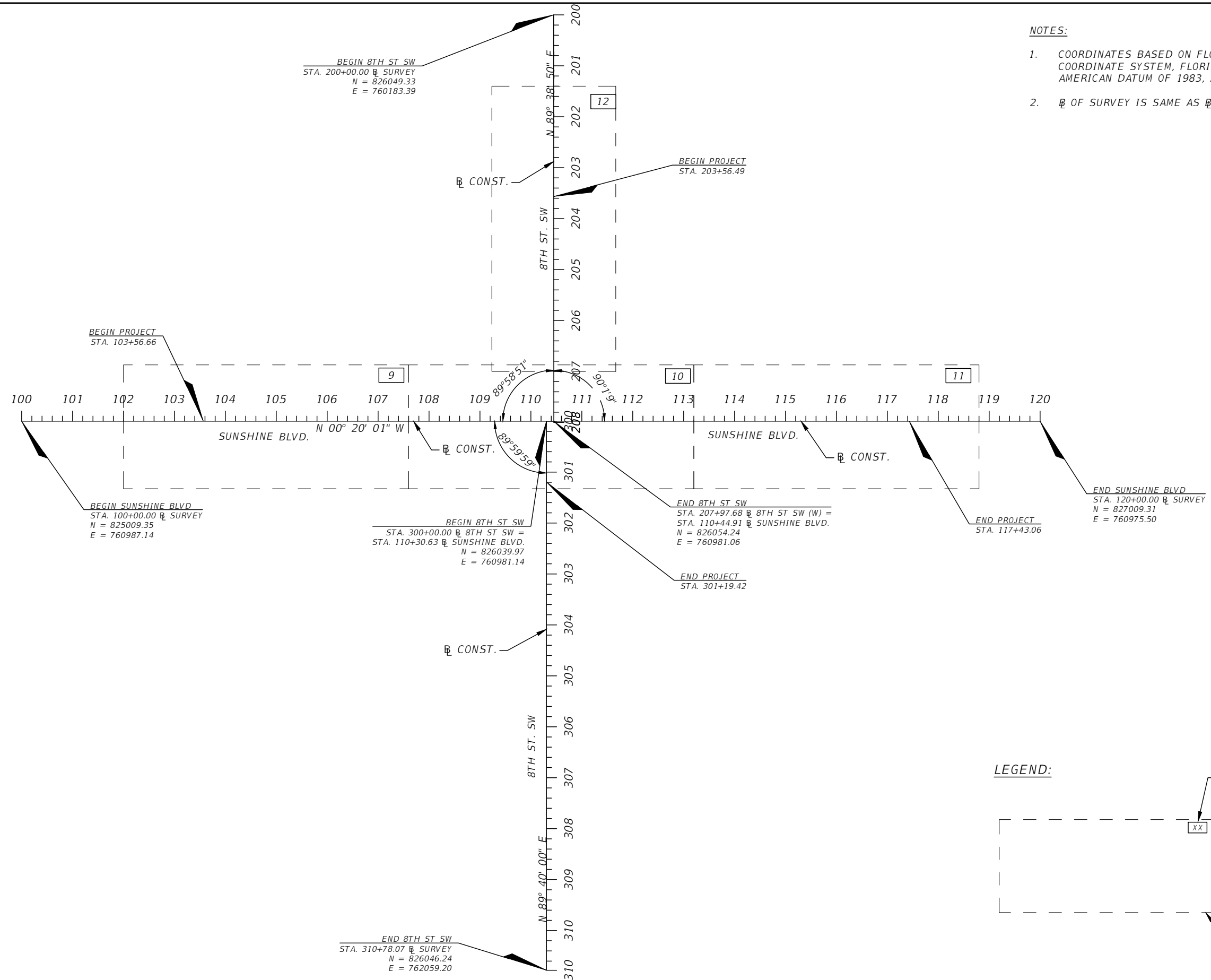
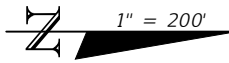
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
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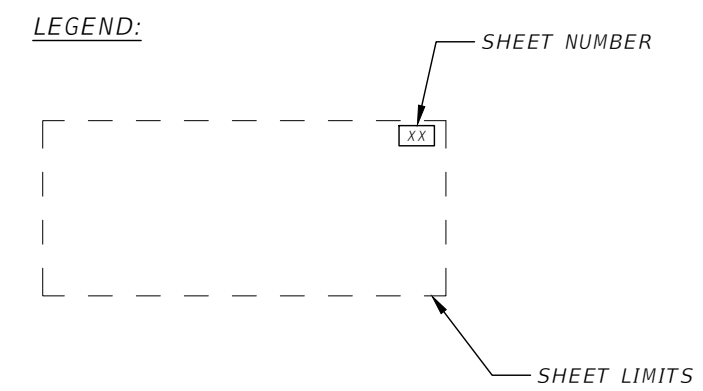
LEE COUNTY DEPARTMENT OF TRANSPORTATION		
ROAD NAME SUNSHINE BLVD.	COUNTY LEE	LEE COUNTY NO. CN160311

**SUMMARY OF DRAINAGE STRUCTURES**

SHEET NO.  
**6**



- NOTES:**
- COORDINATES BASED ON FLORIDA STATE PLANE COORDINATE SYSTEM, FLORIDA WEST ZONE; NORTH AMERICAN DATUM OF 1983, 2011 ADJUSTMENTS.
  - ℄ OF SURVEY IS SAME AS ℄ OF CONSTRUCTION.



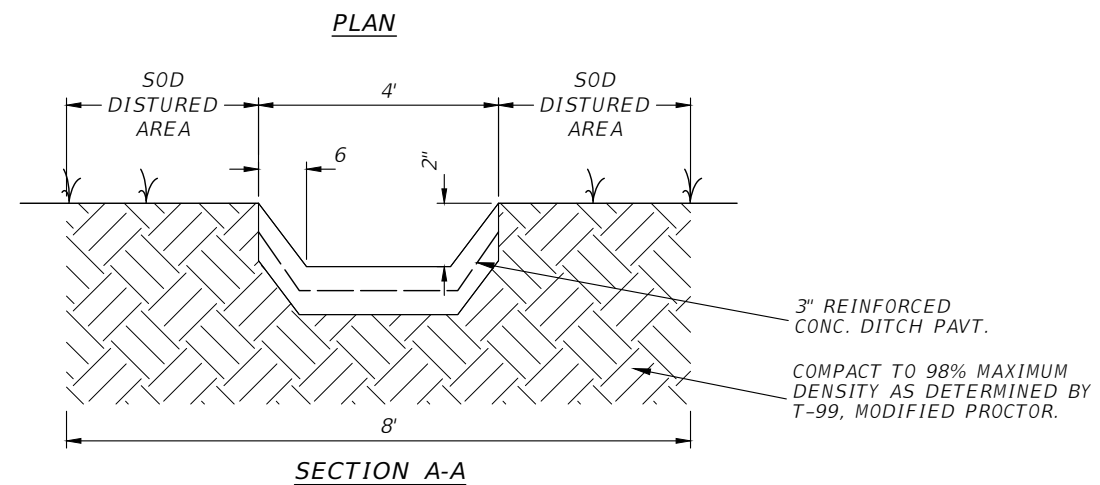
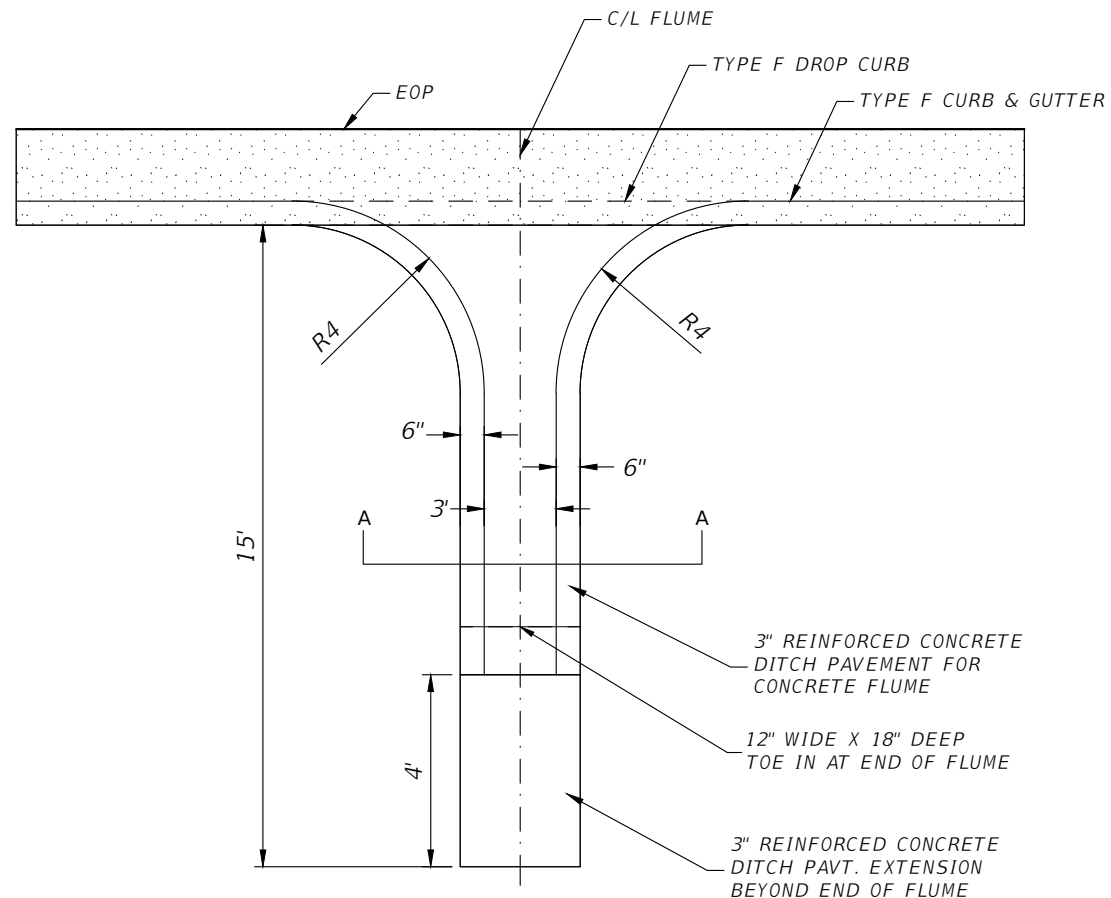
REVISIONS				DANIEL M. CRAIG, P.E. P.E. LICENSE NUMBER 38590 DAVID DOUGLAS ASSOCIATES, INC. 1821 VICTORIA AVE FORT MYERS, FLORIDA 33901 CERTIFICATE OF AUTHORIZATION 7568	LEE COUNTY DEPARTMENT OF TRANSPORTATION			PROJECT LAYOUT	SHEET NO.  7
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NAME	COUNTY	LEE COUNTY NO.		
---	---	---	---		SUNSHINE BLVD.	LEE	CN160311		

100% Plans Submittal

**GENERAL NOTES:**

- BENCHMARKS ELEVATIONS SHOWN ON THE PLANS ARE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88), INFORMATION SUPPLIED BY CARDNO, INC., PROJECT SURVEYOR.
- SAILFISH CANAL WEIR (S-SF-2) HAS A CONTROL ELEVATION OF 19.5 UPSTREAM & 17.5 DOWNSTREAM. THE 25-YR/3 DAY MAX ELEVATIONS ARE 21.88 UPSTREAM (S) AND 20.51 DOWNSTREAM (N). INFORMATION SUPPLIED BY AIM ENGINEERING, INC., DATED 2013.
- EXISTING STORM DRAINS WITHIN THE LIMITS OF CONSTRUCTION ARE TO BE REMOVED, UNLESS OTHERWISE NOTED ON THE PLANS. SEE TABLE BELOW FOR EXISTING STORM INFORMATION.
- ANY PRIVATE OR PUBLIC PROPERTY AFFECTED BY THIS WORK SHALL BE RESTORED TO A CONDITION EQUAL TO OR BETTER THAN EXISTING CONDITIONS. CONTRACTOR TO EXERCISE CAUTION WHEN REPLACING DRIVEWAYS, CONSTRUCTING SWALES, GRADING, ETC. TO AVOID CONFLICT WITH SEPTIC SYSTEM DRAIN FIELDS. AT NO ADDITIONAL COST, THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY DAMAGE TO EXISTING FACILITIES TO A CONDITION EQUAL OR BETTER THAN EXISTING, ABOVE OR BELOW GROUND, THAT MAY OCCUR AS A RESULT OF THE WORK PERFORMED BY THE CONTRACTOR.
- THE CONTRACTOR SHALL UTILIZE A PROFESSIONAL LAND SURVEYOR LICENSED IN THE STATE OF FLORIDA TO LOCATE AND FLAG ALL PROPERTY CORNERS PRIOR TO CONSTRUCTION AND FINAL ENGINEERING INSPECTION AND CERTIFICATION. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO HAVE PROPERTY CORNERS, WHICH HAVE BEEN LOST DURING CONSTRUCTION, REESTABLISHED BY A PROFESSIONAL LAND SURVEYOR LICENSED IN THE STATE OF FLORIDA. ALL (P.R.M'S) IRONS AND MONUMENTS SHOWN ON THE PLANS OR FOUND SHALL BE PRESERVED. ANY PUBLIC LAND CORNERS WITHIN LIMITS OF CONSTRUCTION SHALL BE PROTECTED. IF ANY CORNER MONUMENT IS IN DANGER OF BEING DESTROYED OR DISTURBED, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER WITHOUT DELAY.
- DISCREPANCIES IN FIELD CONDITIONS, PLAN CONDITIONS, OR CODES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY.
- THESE DRAWINGS DO NOT INCLUDE INSTRUCTIONS FOR THE CONTRACTOR REGARDING CONSTRUCTION SAFETY. DURING THE CONSTRUCTION AND/OR MAINTENANCE OF THIS PROJECT, ALL SAFETY REGULATIONS ARE TO BE ENFORCED BY THE CONTRACTOR. THE CONTRACTOR OR HIS REPRESENTATIVE SHALL BE RESPONSIBLE FOR THE CONTROL AND SAFETY OF THE PUBLIC AND THE SAFETY OF HIS PERSONNEL.
- WHEN WORKING ON OR ADJACENT TO EXISTING STRUCTURES OR APPURTENANCES, ALL PRECAUTIONS FOR CONTINUED SAFETY OF STRUCTURES AND ALL PERSONNEL SHALL BE EXERCISED IN ACCORDANCE WITH THE FLORIDA TRENCH SAFETY ACT AT A MINIMUM.
- THE CONTRACTOR SHALL MAINTAIN A COPY OF THE APPROVED PLANS AND PERMITS AT THE CONSTRUCTION SITE AT ALL TIMES. THE CONTRACTOR IS RESPONSIBLE TO READ AND UNDERSTAND ALL PERMITS INCLUDING ALL GENERAL AND SPECIAL CONDITIONS. AT OWNER'S OR ENGINEER'S REQUEST, THE CONTRACTOR SHALL PROVIDE APPROPRIATE DOCUMENTATION THAT ALL CONSTRUCTION RELATED CONDITIONS ARE ADHERED TO.
- GREEN OPEN SPACE ELEVATIONS SHOWN ARE TO TOP OF SOD. FINISH GRADE TO WITHIN 2" OF PAVEMENT ELEVATIONS BEFORE LAYING SOD (STRICTLY ENFORCED). ALL AREAS TO BE GRADED AND SODDED MUST DRAIN WITHOUT ANY NOTICEABLE PONDING. THE CONTRACTOR WILL BE REQUIRED TO REGRADE AND RESOD ANY AREAS WHICH DO NOT COMPLY WITH POSITIVE DRAINAGE WITHOUT PONDING.
- NO DEWATERING PERMIT HAS BEEN ISSUED BY THE ENGINEER FOR THE PROPOSED CONSTRUCTION. IN THE EVENT DEWATERING IS REQUIRED THE CONTRACTOR SHALL APPLY FOR ALL APPLICABLE WATER USE PERMITS AT THAT TIME.
- THE CONTRACTOR SHALL SUBMIT FOR APPROVAL TO THE OWNER'S ENGINEER, SHOP DRAWINGS ON ALL PROPOSED PRECAST AND MANUFACTURED STRUCTURES. FAILURE TO OBTAIN APPROVAL BEFORE INSTALLATION MAY RESULT IN REMOVAL AND REPLACEMENT AT THE CONTRACTOR'S EXPENSE. ALL SHOP DRAWINGS ARE TO BE REVIEWED AND APPROVED BY CONTRACTOR SIGNATURE PRIOR TO SUBMITTAL TO THE OWNER'S ENGINEER.
- CONTRACTOR SHALL NOTIFY THE LEHIGH ACRES MUNICIPAL SERVICES IMPROVEMENT DISTRICT (LAMSID) ENGINEER, AIM ENGINEERING, AT 239-332-4569 FORTY-EIGHT (48) HOURS PRIOR TO COMMENCEMENT OF THE PERMITTED ACTIVITY. THE LAMSID ENGINEER SHALL ESTABLISH POINTS OF CONSTRUCTION, IF APPLICABLE, WHICH WILL REQUIRE INSPECTION BY THE LAMSID ENGINEER PRIOR TO CONSTRUCTION OF THE PERMITTED ACTIVITY. WHEN THE CONTRACTOR CONSIDERS THE PERMITTED ACTIVITY COMPLETE, THE CONTRACTOR SHALL NOTIFY THE LAMSID ENGINEER AND SCHEDULE AN ON-SITE FINAL INSPECTION WHICH SHALL BE HELD IN THE PRESENCE OF A LCDOT REPRESENTATIVE AND/OR THE ENGINEER OF RECORD AND THE LAMSID ENGINEER.
- CONTRACTOR SHALL BE AWARE THAT LIMESTONE/CAPROCK MAYBE ENCOUNTERED IN THIS AREA. EXCAVATION INTO AND/OR THROUGH LIMESTONE/CAPROCK WILL BE DIFFICULT AND WILL REQUIRE NON CONVENTIONAL CONSTRUCTION TECHNIQUES AND SPECIALIZED EQUIPMENT. NO SEPARATE PAYMENT WILL BE MADE IF ROCK IS ENCOUNTERED.

EXISTING STORM INFORMATION			
REFERENCE NUMBER	PIPE SIZE/MATERIAL	INVERT EL.	INVERT EL.
①	12" X 18" ERCP	25.03	25.68
②	19" X 30" ERCP	24.32	24.72
③	12" X 18" ERCP	25.55	25.63
④	12" X 18" ERCP	25.79	25.73



**CONCRETE FLUME DETAIL**  
NTS

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
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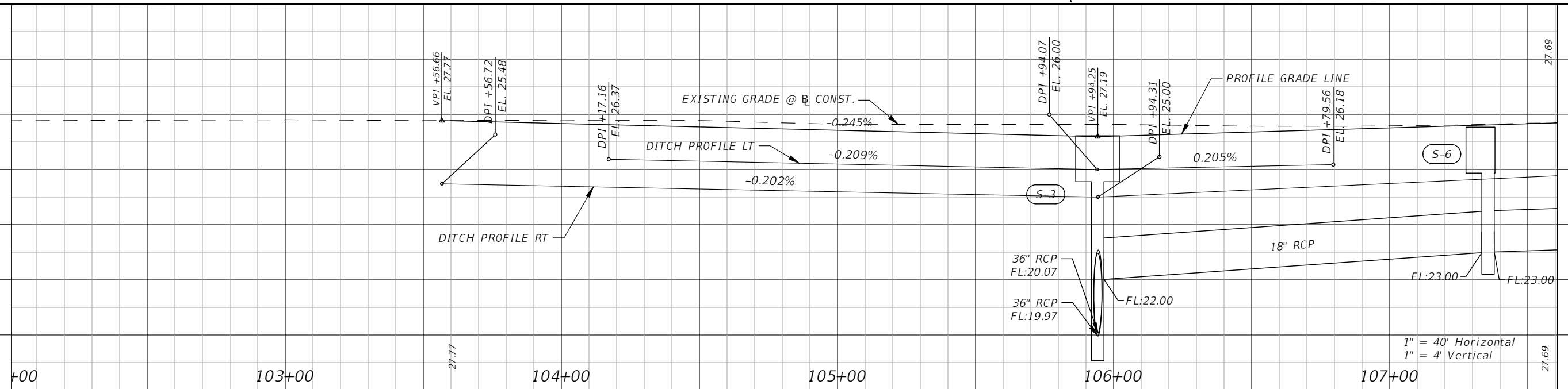
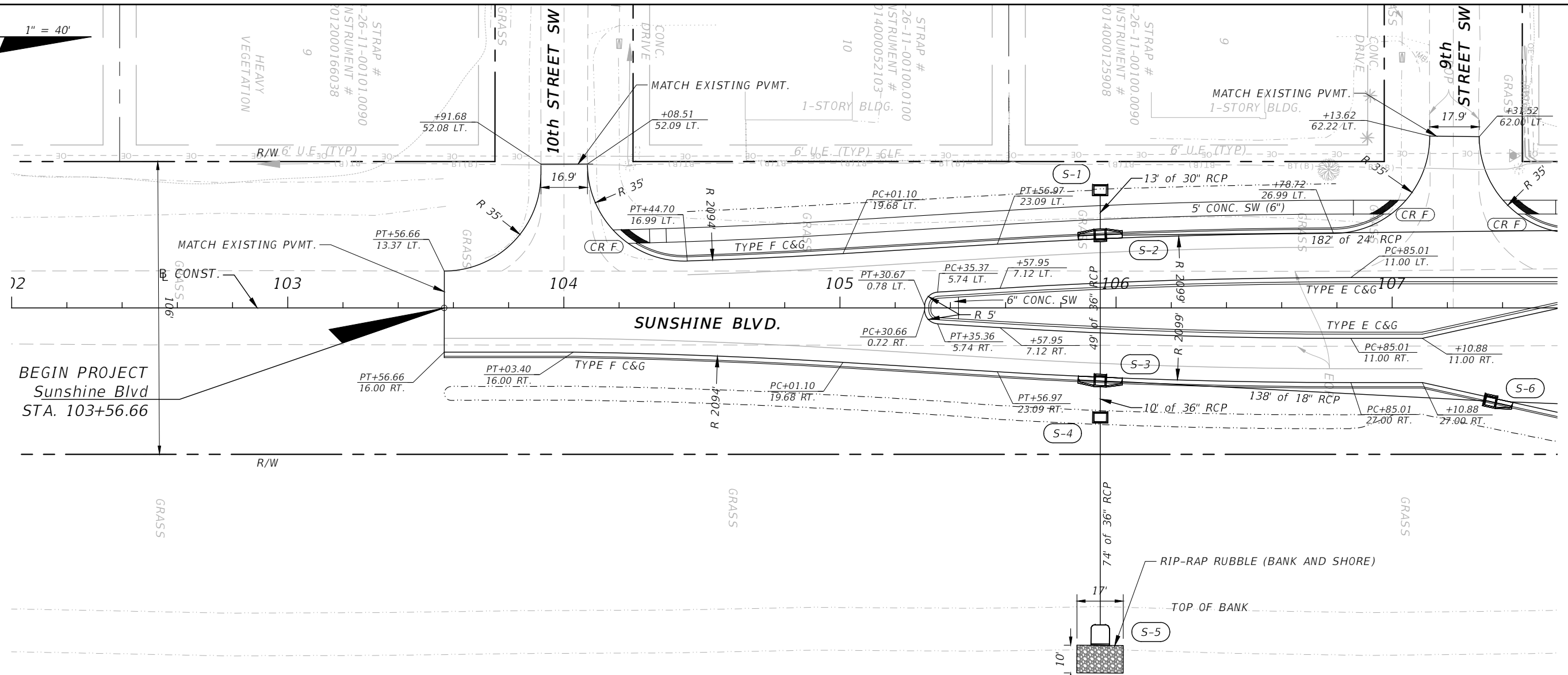
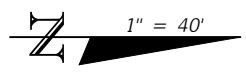
LEE COUNTY DEPARTMENT OF TRANSPORTATION		
ROAD NAME	COUNTY	LEE COUNTY NO.
SUNSHINE BLVD.	LEE	CN160311

**GENERAL NOTES & DETAILS**

SHEET NO.  
**8**

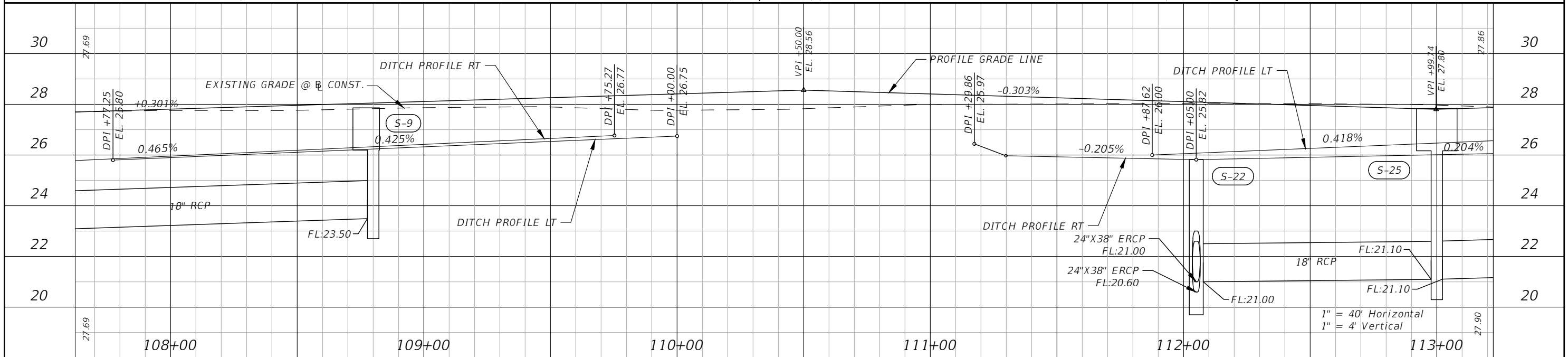
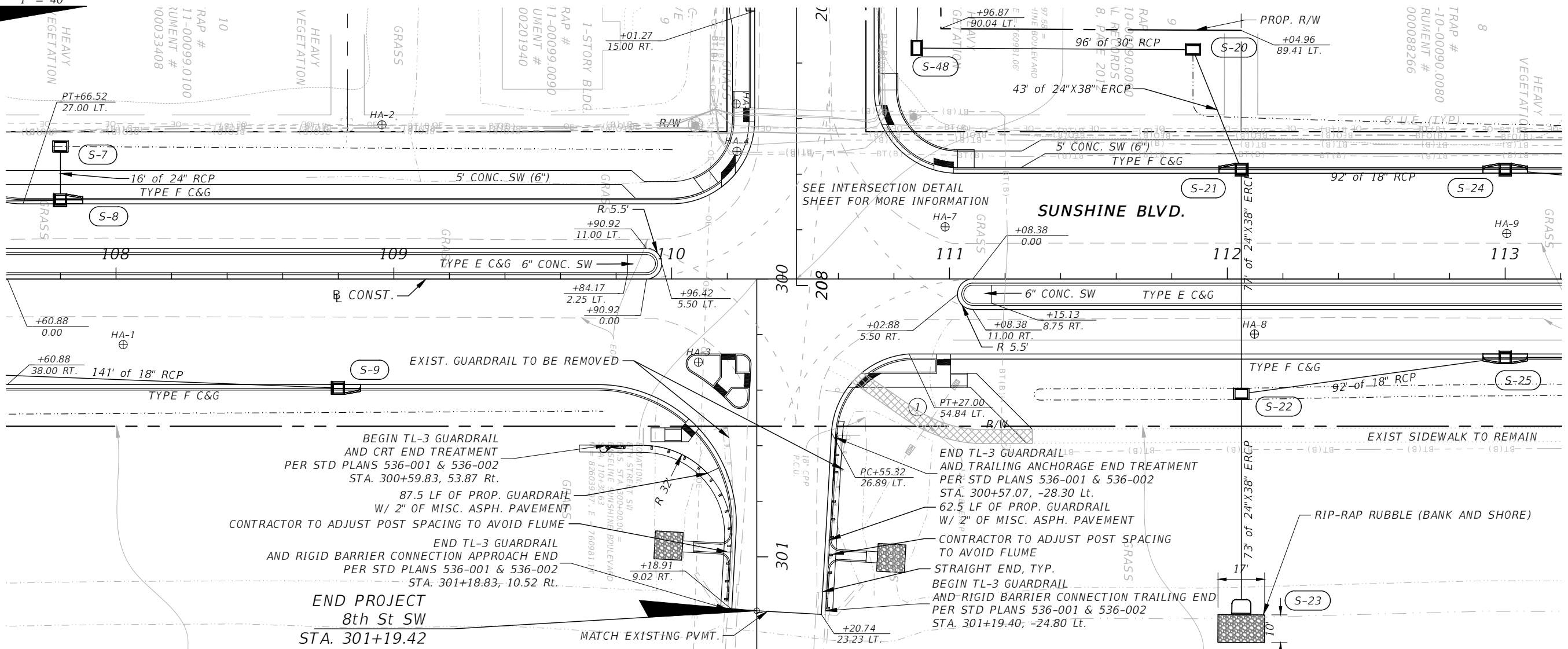
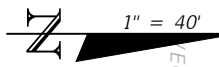
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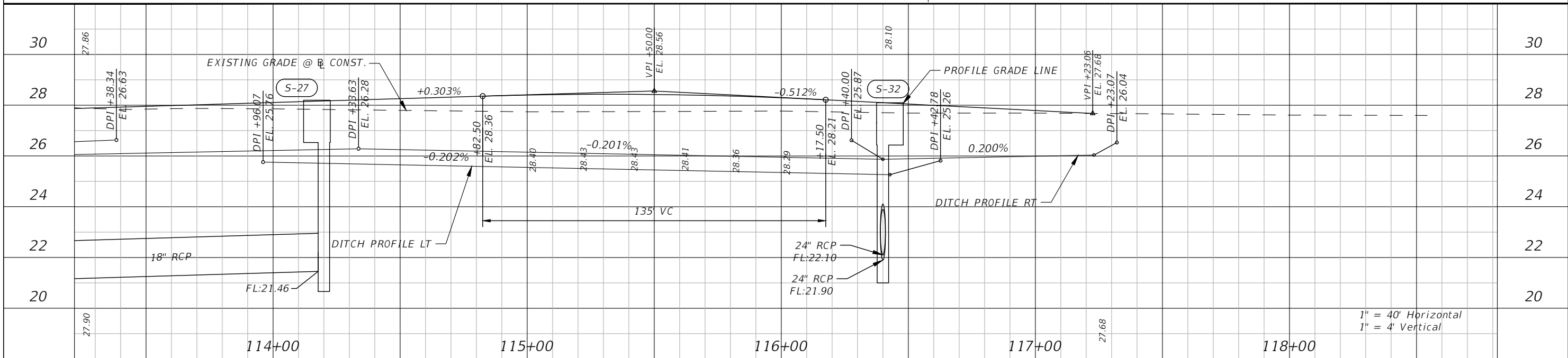
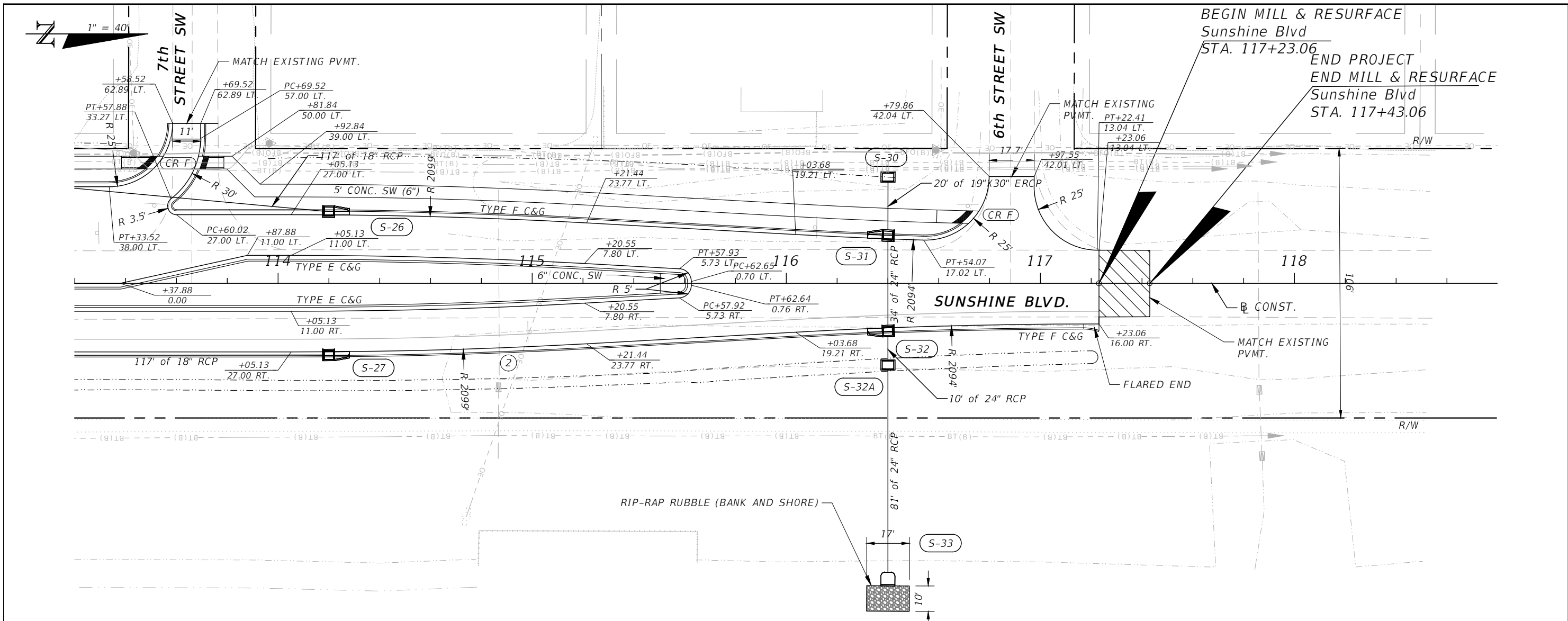
REVISIONS				DANIEL M. CRAIG, P.E. P.E. LICENSE NUMBER 38590 DAVID DOUGLAS ASSOCIATES, INC. 1821 VICTORIA AVE FORT MYERS, FLORIDA 33901 CERTIFICATE OF AUTHORIZATION 7568	<b>LEE COUNTY</b> <b>DEPARTMENT OF TRANSPORTATION</b>			<b>ROADWAY PLAN &amp; PROFILE</b>	SHEET NO. 9
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NAME	COUNTY	LEE COUNTY NO.		
				SUNSHINE BLVD.	LEE	CN160311			

100% Plans Submittal



REVISIONS				DANIEL M. CRAIG, P.E. P.E. LICENSE NUMBER 38590 DAVID DOUGLAS ASSOCIATES, INC. 1821 VICTORIA AVE FORT MYERS, FLORIDA 33901 CERTIFICATE OF AUTHORIZATION 7568	LEE COUNTY DEPARTMENT OF TRANSPORTATION			<b>ROADWAY PLAN &amp; PROFILE</b>  SHEET NO. 10
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NAME	COUNTY	LEE COUNTY NO.	
----	----	----	----		SUNSHINE BLVD.	LEE	CN160311	

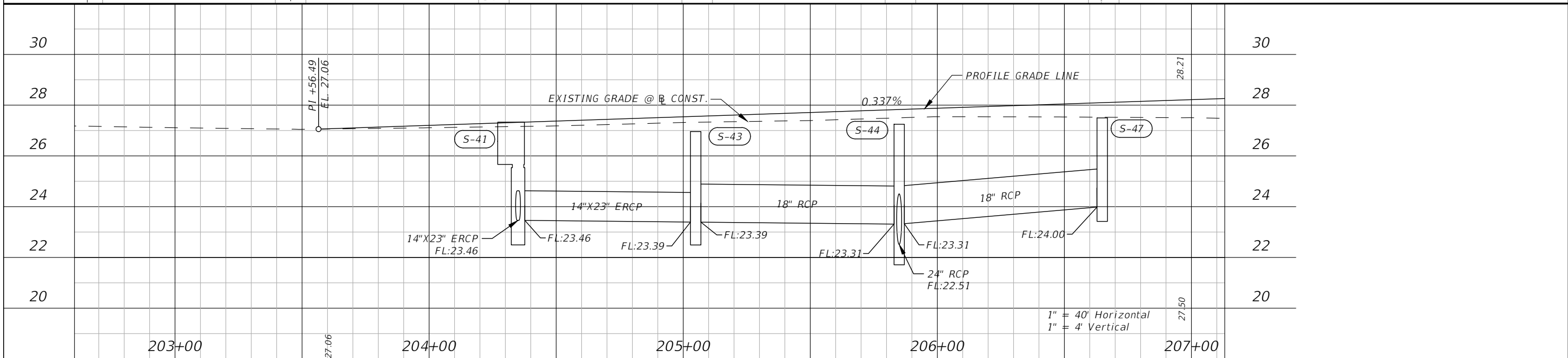
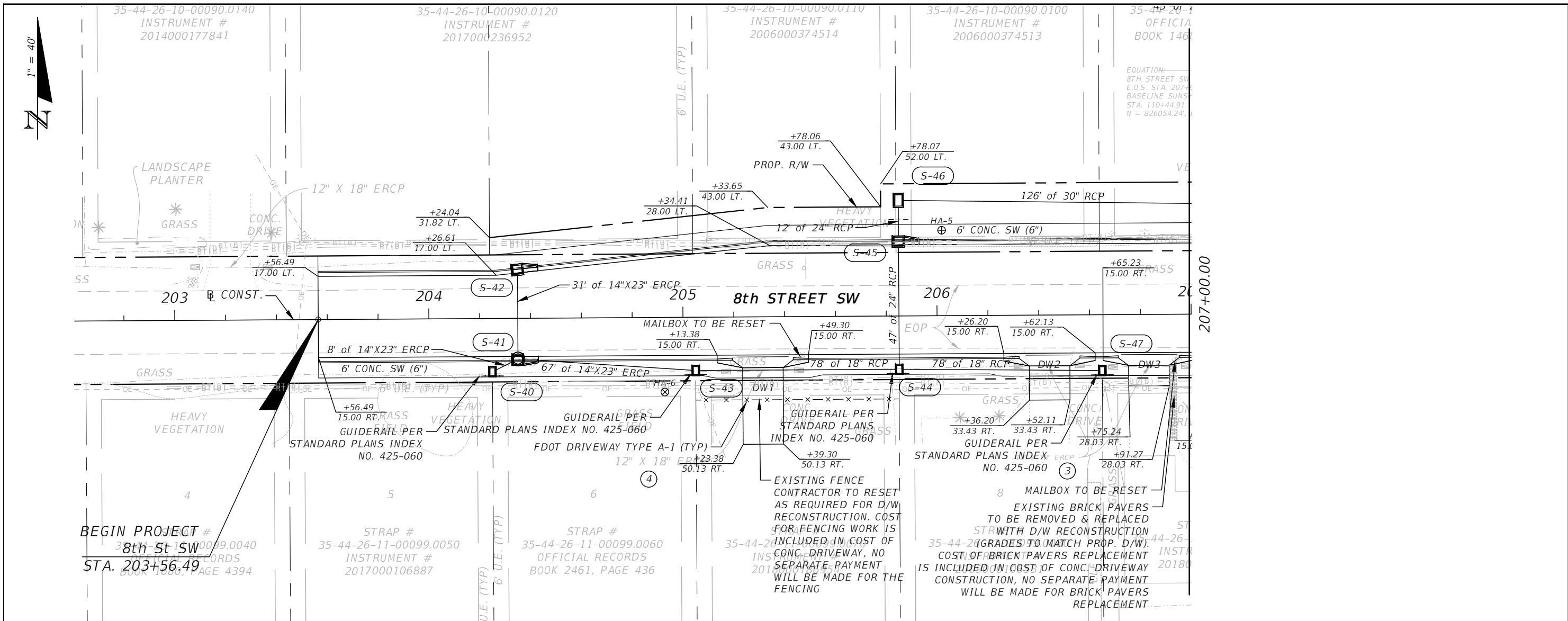
100% Plans Submittal



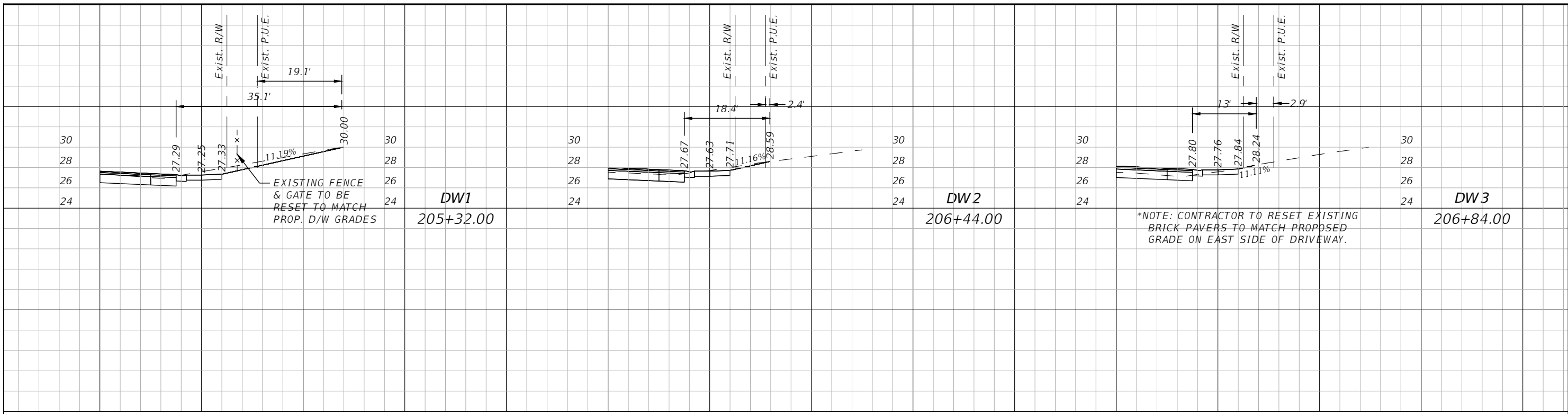
REVISIONS				DANIEL M. CRAIG, P.E. P.E. LICENSE NUMBER 38590 DAVID DOUGLAS ASSOCIATES, INC. 1821 VICTORIA AVE FORT MYERS, FLORIDA 33901 CERTIFICATE OF AUTHORIZATION 7568	LEE COUNTY DEPARTMENT OF TRANSPORTATION			ROADWAY PLAN & PROFILE	SHEET NO. 11
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NAME	COUNTY	LEE COUNTY NO.		
					SUNSHINE BLVD.	LEE	CN160311		

100% Plans Submittal

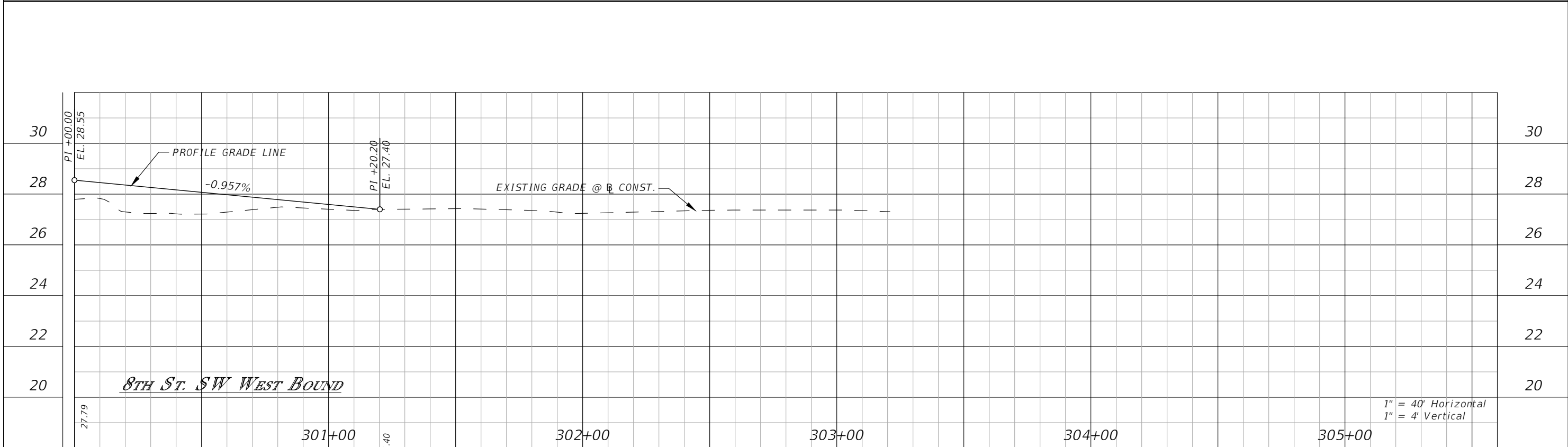
100% Plans Submittal



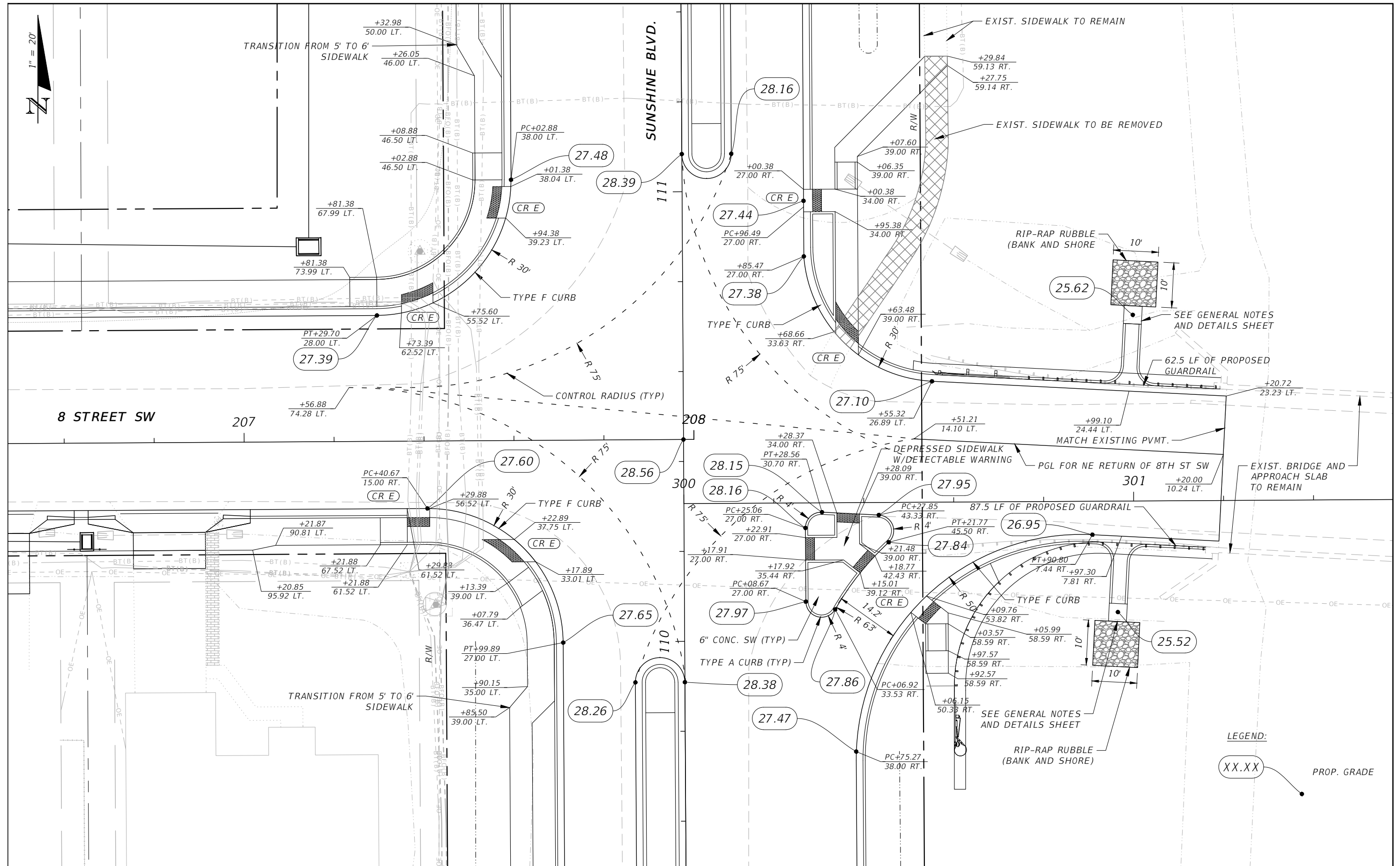
REVISIONS				DANIEL M. CRAIG, P.E. P.E. LICENSE NUMBER 38590 DAVID DOUGLAS ASSOCIATES, INC. 1821 VICTORIA AVE FORT MYERS, FLORIDA 33901 CERTIFICATE OF AUTHORIZATION 7568	LEE COUNTY DEPARTMENT OF TRANSPORTATION			ROADWAY PLAN & PROFILE	SHEET NO. 12
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NAME	COUNTY	LEE COUNTY NO.		
				SUNSHINE BLVD.	LEE	CN160311			



DRIVEWAY SECTIONS



REVISIONS				DANIEL M. CRAIG, P.E. P.E. LICENSE NUMBER 38590 DAVID DOUGLAS ASSOCIATES, INC. 1821 VICTORIA AVE FORT MYERS, FLORIDA 33901 CERTIFICATE OF AUTHORIZATION 7568	LEE COUNTY DEPARTMENT OF TRANSPORTATION			<b>ROADWAY PROFILE</b>	SHEET NO.  13
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NAME	COUNTY	LEE COUNTY NO.		
					SUNSHINE BLVD.	LEE	CN160311		



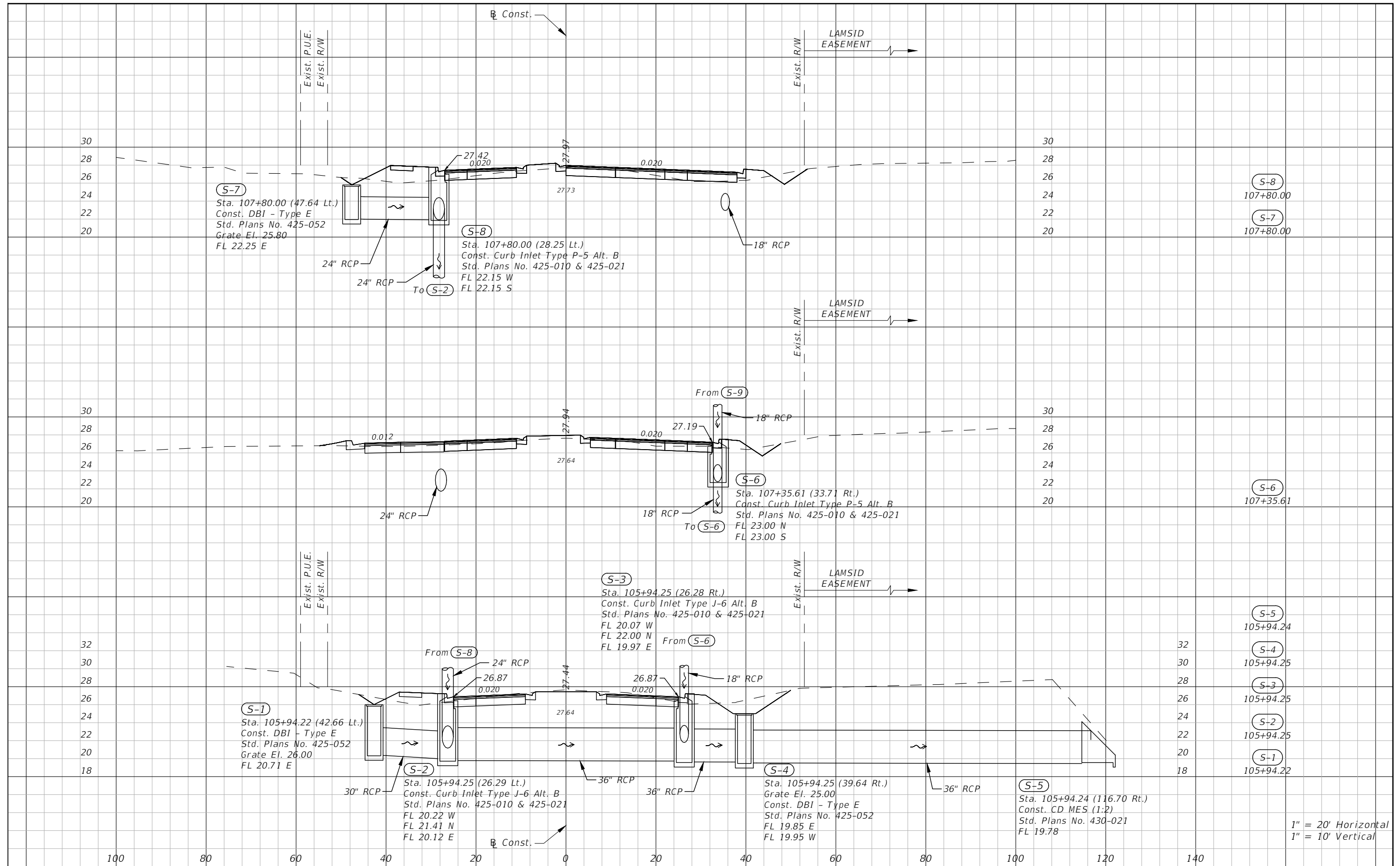
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DANIEL M. CRAIG, P.E.  
P.E. LICENSE NUMBER 38590  
DAVID DOUGLAS ASSOCIATES, INC.  
1821 VICTORIA AVE  
FORT MYERS, FLORIDA 33901  
CERTIFICATE OF AUTHORIZATION 7568

<b>LEE COUNTY</b> <b>DEPARTMENT OF TRANSPORTATION</b>		
ROAD NAME	COUNTY	LEE COUNTY NO.
SUNSHINE BLVD.	LEE	CN160311

*INTERSECTION DETAIL*

SHEET NO.
14



<b>DATE</b>	<b>DESCRIPTION</b>	<b>DATE</b>	<b>DESCRIPTION</b>

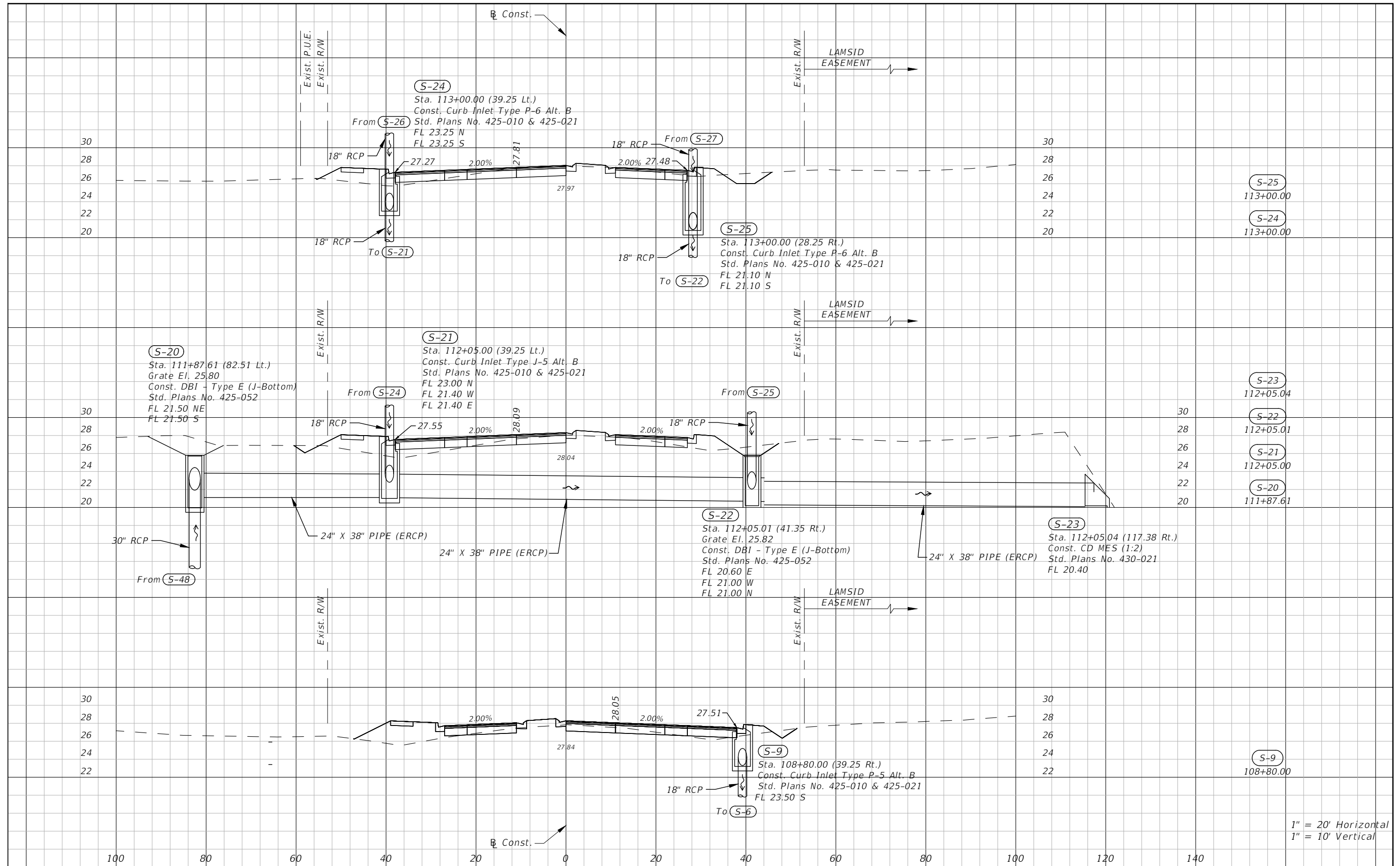
DANIEL M. CRAIG, P.E.  
P.E. LICENSE NUMBER 38590  
DAVID DOUGLAS ASSOCIATES, INC.  
1821 VICTORIA AVE  
FORT MYERS, FLORIDA 33901  
CERTIFICATE OF AUTHORIZATION 7568

**LEE COUNTY**  
**DEPARTMENT OF TRANSPORTATION**

ROAD NAME	COUNTY	LEE COUNTY NO.
SUNSHINE BLVD.	LEE	CN160311

**SHEET NO.**

15



DATE	DESCRIPTION	DATE	DESCRIPTION

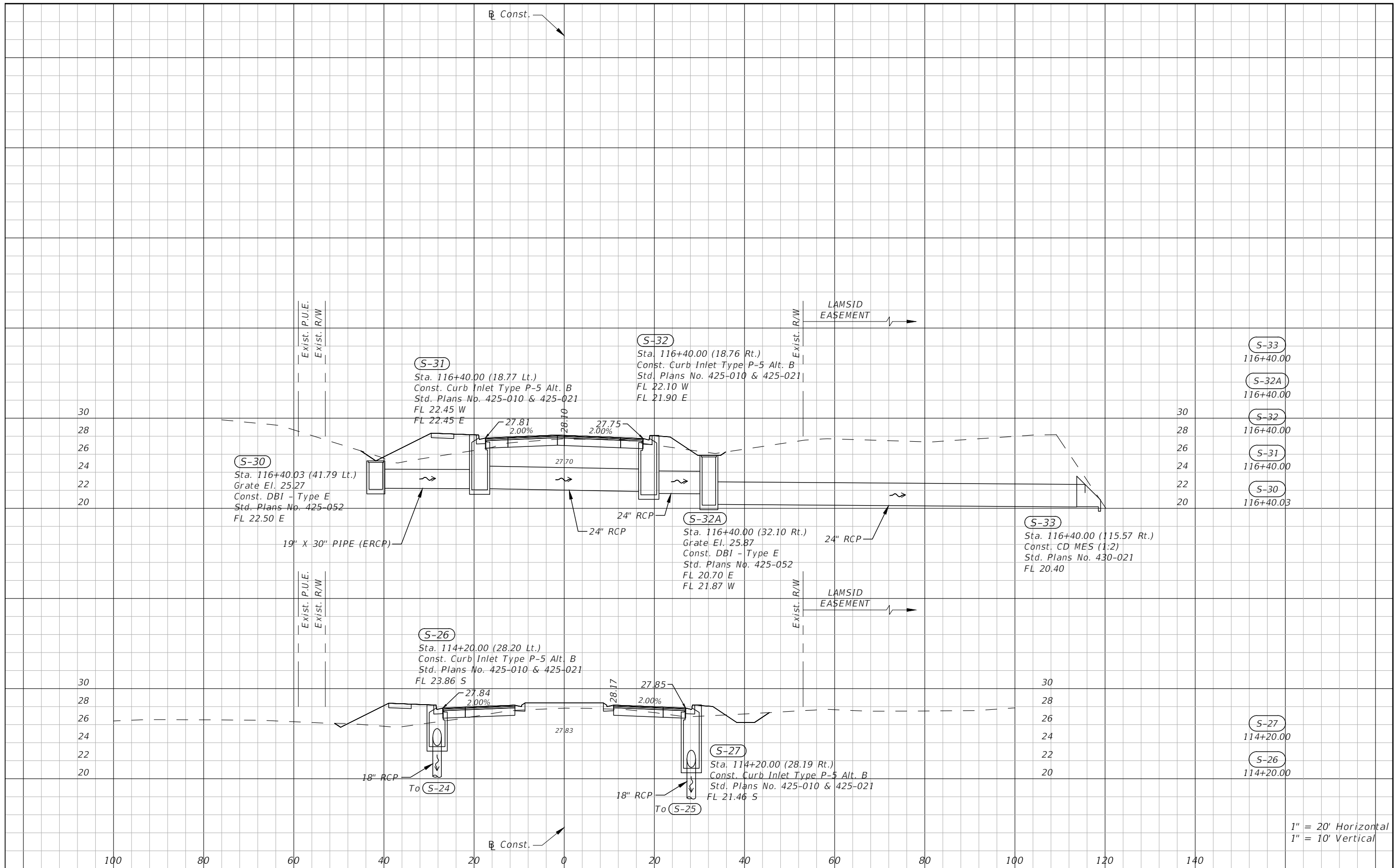
DANIEL M. CRAIG, P.E.  
P.E. LICENSE NUMBER 38590  
DAVID DOUGLAS ASSOCIATES, INC.  
1821 VICTORIA AVE  
FORT MYERS, FLORIDA 33901  
CERTIFICATE OF AUTHORIZATION 7568

LEE COUNTY DEPARTMENT OF TRANSPORTATION		
ROAD NAME	COUNTY	LEE COUNTY NO.
SUNSHINE BLVD.	LEE	CN160311

**DRAINAGE STRUCTURES**

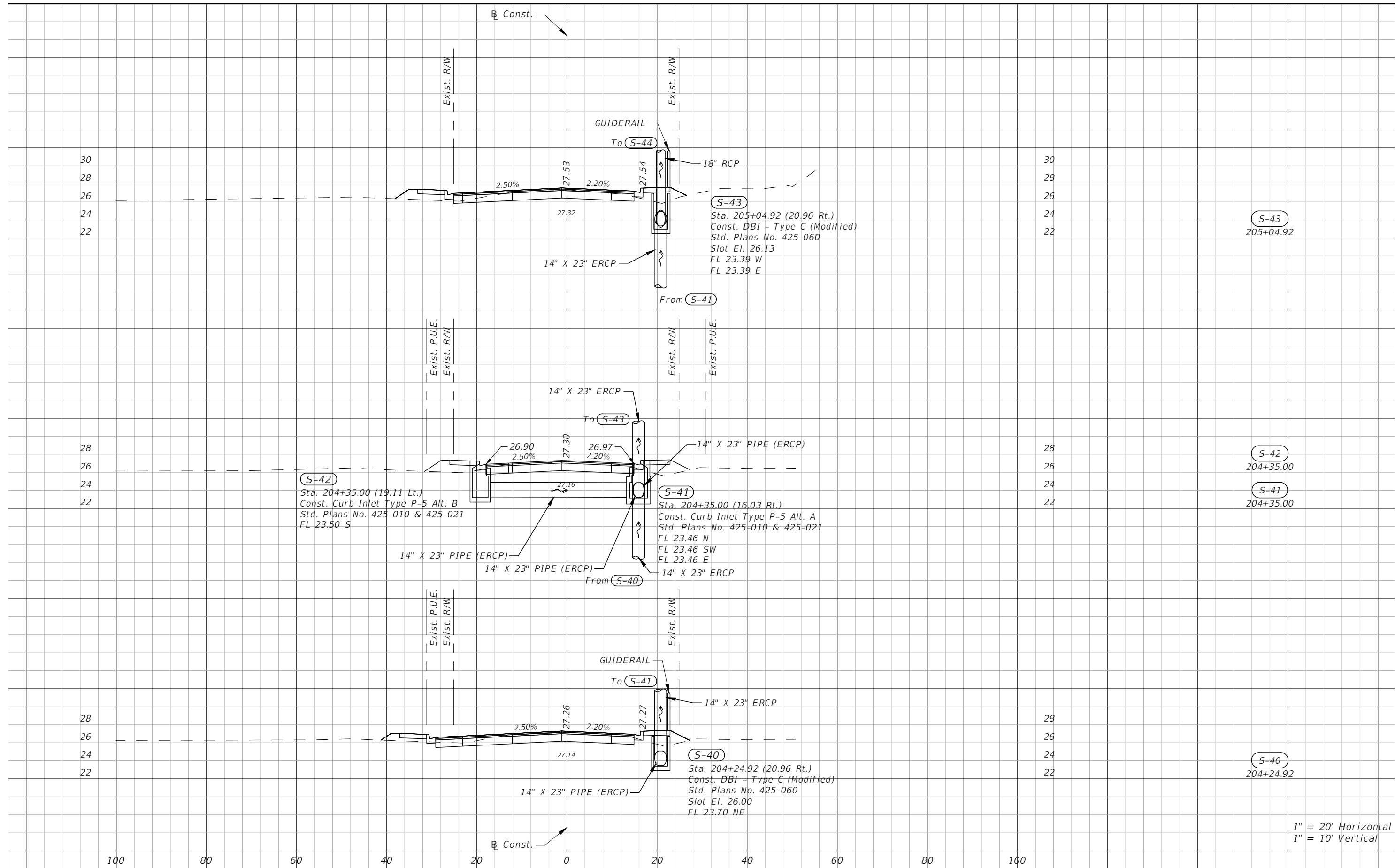
SHEET NO.
16





1" = 20' Horizontal  
1" = 10' Vertical

DATE	DESCRIPTION	DATE	DESCRIPTION	DANIEL M. CRAIG, P.E. P.E. LICENSE NUMBER 38590 DAVID DOUGLAS ASSOCIATES, INC. 1821 VICTORIA AVE FORT MYERS, FLORIDA 33901 CERTIFICATE OF AUTHORIZATION 7568	<b>LEE COUNTY</b> DEPARTMENT OF TRANSPORTATION			<b>DRAINAGE STRUCTURES</b>	SHEET NO.
					ROAD NAME SUNSHINE BLVD.	COUNTY LEE	LEE COUNTY NO. CN160311		17



1" = 20' Horizontal  
1" = 10' Vertical

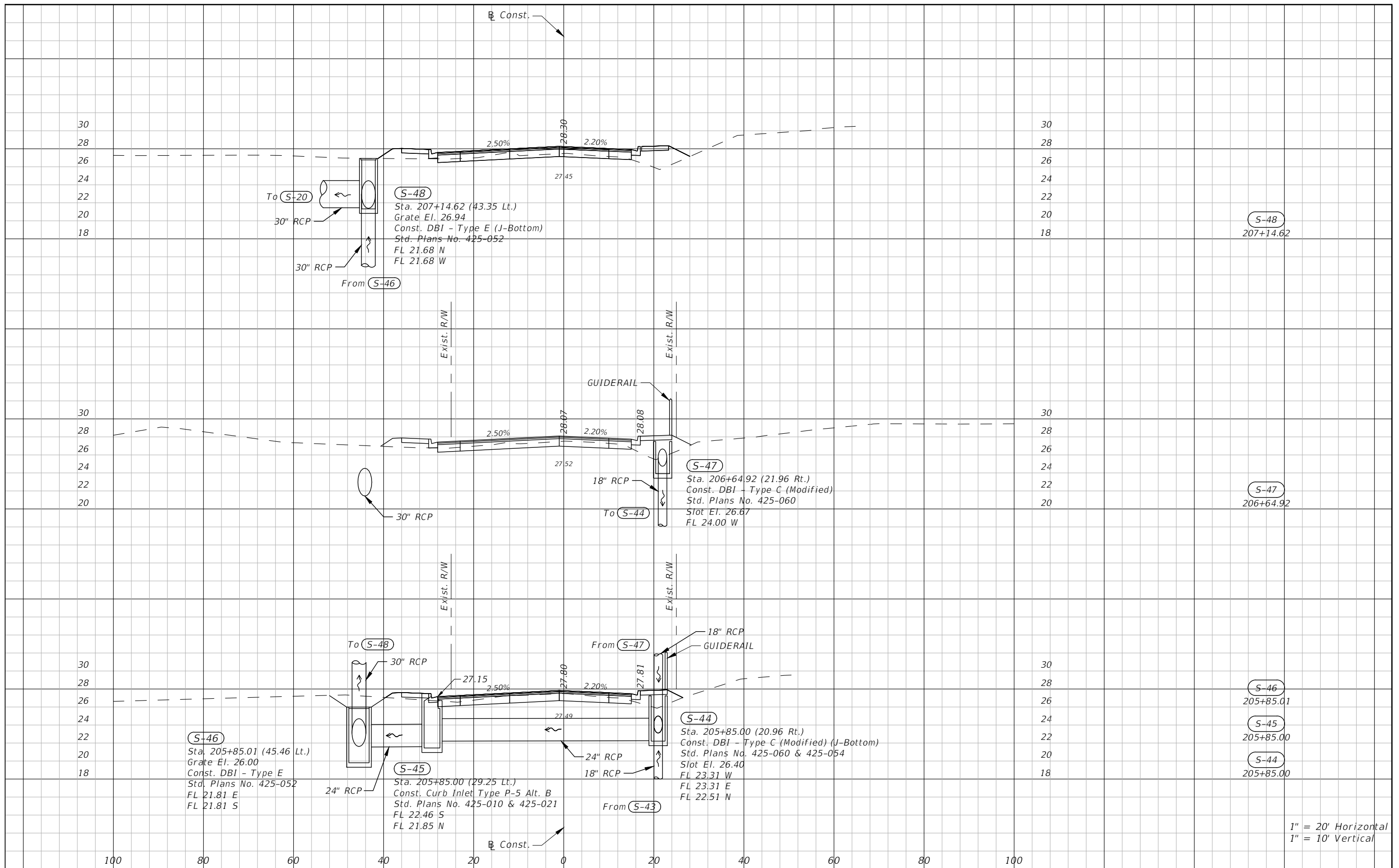
DATE	DESCRIPTION	DATE	DESCRIPTION
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DANIEL M. CRAIG, P.E.  
P.E. LICENSE NUMBER 38590  
DAVID DOUGLAS ASSOCIATES, INC.  
1821 VICTORIA AVE  
FORT MYERS, FLORIDA 33901  
CERTIFICATE OF AUTHORIZATION 7568

<b>LEE COUNTY DEPARTMENT OF TRANSPORTATION</b>		
ROAD NAME	COUNTY	LEE COUNTY NO.
SUNSHINE BLVD.	LEE	CN160311

**DRAINAGE STRUCTURES**

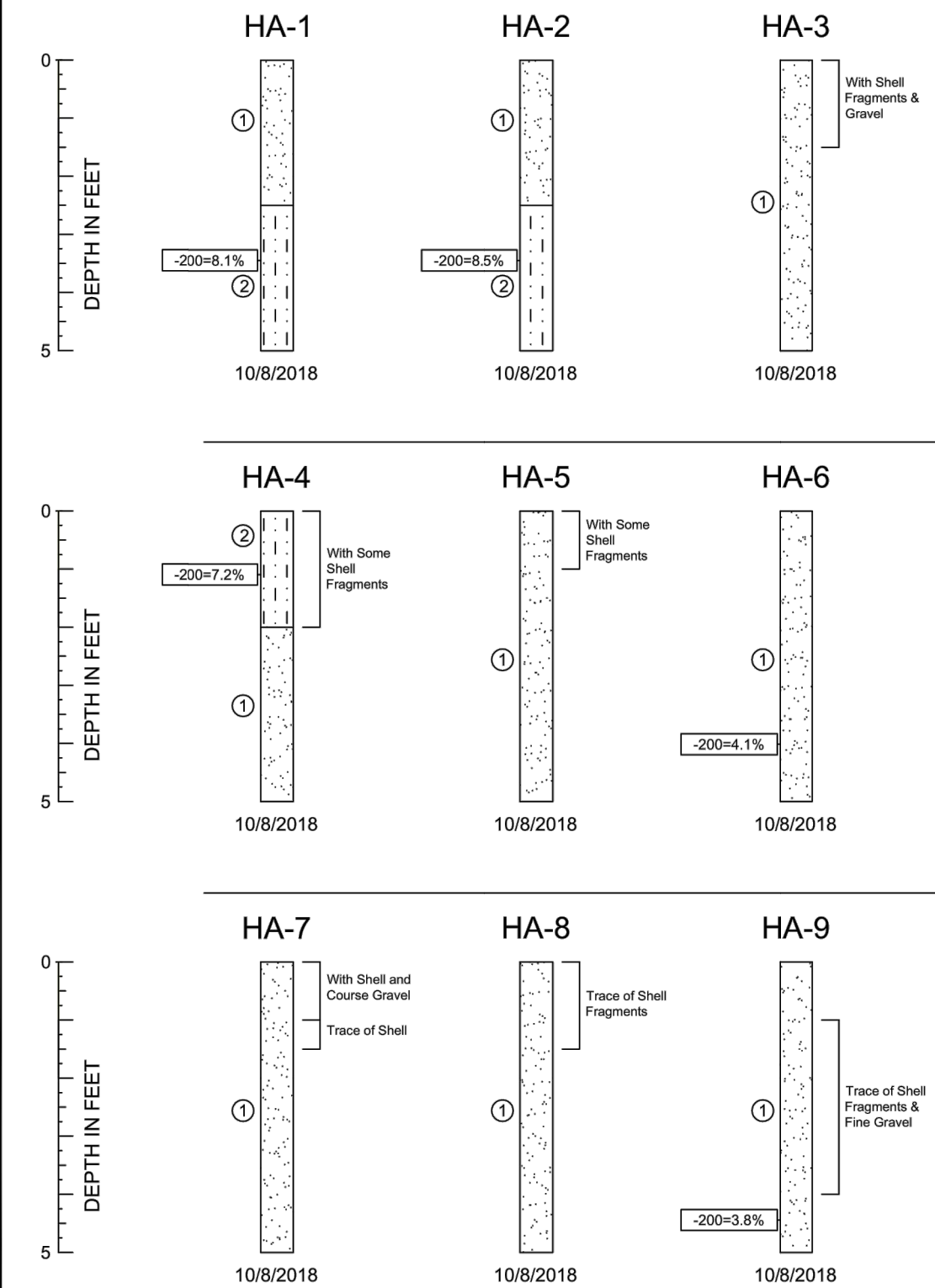
SHEET NO.  
18



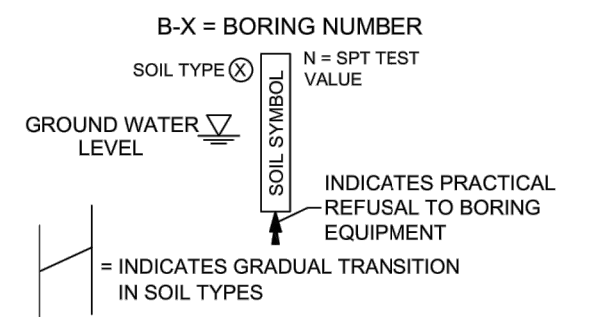
1" = 20' Horizontal  
1" = 10' Vertical

DATE	DESCRIPTION	DATE	DESCRIPTION	DANIEL M. CRAIG, P.E. P.E. LICENSE NUMBER 38590 DAVID DOUGLAS ASSOCIATES, INC. 1821 VICTORIA AVE FORT MYERS, FLORIDA 33901 CERTIFICATE OF AUTHORIZATION 7568	LEE COUNTY DEPARTMENT OF TRANSPORTATION			SHEET NO.  19
					ROAD NAME	COUNTY	LEE COUNTY NO.	
					SUNSHINE BLVD.	LEE	CN160311	

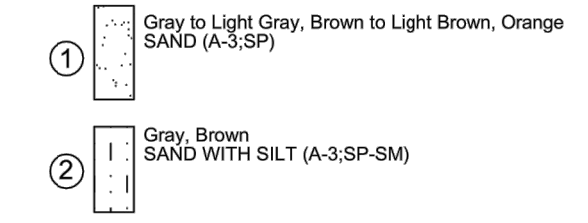
### SOIL PROFILES



### SOIL PROFILE LEGEND



### SOIL LEGEND



#### NOTES:

N - STANDARD PENETRATION RESISTANCE TEST (SPT) VALUE. NUMBERS TO THE LEFT OF BORINGS INDICATE SPT VALUE FOR 12-INCHES OF PENETRATION (UNLESS OTHERWISE NOTED).

WOH - BORING INTERVAL ADVANCED UNDER WEIGHT OF HAMMER.

HA - HAND AUGER

#### SOIL CLASSIFICATION

CORRELATION OF N - VALUES WITH RELATIVE DENSITY AND CONSISTENCY

COHESIONLESS SOIL		SILTS AND CLAYS	
N - VALUE	RELATIVE DENSITY	N - VALUE	CONSISTENCY
0 - 3	VERY LOOSE	0 - 1	VERY SOFT
4 - 8	LOOSE	2 - 4	SOFT
9 - 24	MEDIUM DENSE	5 - 6	FIRM
25 - 40	DENSE	7 - 12	STIFF
OVER 40	VERY DENSE	13 - 24	VERY STIFF
		OVER 24	HARD

CORRELATION OF N - VALUES WITH HARDNESS DESCRIPTION

LIMESTONE	
N - VALUE	RELATIVE DENSITY
0 - 19	VERY SOFT
20 - 49	SOFT
50 - 100	MEDIUM HARD
50 FOR 3 TO 5"	MODERATELY HARD
50 FOR 0 TO 2"	HARD

#### APPROXIMATE FINES CONTENT

FINES CONTENT	MODIFIERS
5% TO 15%	SLIGHTLY SILTY OR SLIGHTLY CLAYEY
16% TO 25%	SILTY OR CLAYEY
26% TO 49%	VERY SILTY OR VERY CLAYEY

#### APPROXIMATE SHELL CONTENT

SHELL CONTENT	MODIFIERS
0% TO 5%	WITH A TRACE OF SHELL
6% TO 12%	SLIGHTLY SHELLY
13% TO 30%	SHELLY
31% TO 50%	VERY SHELLY

#### APPROXIMATE ORGANIC CONTENT

ORGANIC CONTENT	MODIFIERS
0% TO 5%	WITH A TRACE
5% TO 20%	WITH ORGANICS
20% TO 75%	HIGHLY ORGANIC
75% TO 100%	PEAT

DEFINITION OF DESCRIPTIVE TERMS OF MODIFIERS FOR SILTS/CLAYS/SHELLS/GRAVELS ARE DESCRIBED AS FOLLOWS :

#### PERCENTAGE OF MODIFIER MATERIAL

0 - 5
5 - 12
12 - 30
30 - 50

#### FIRST QUALIFIER

WITH A TRACE OF + MODIFIER
SLIGHTLY + MODIFIER + Y
MODIFIER + Y
VERY + MODIFIER + Y

#### SECOND QUALIFIER

WITH A TRACE
WITH SOME
WITH
AND

### RECORD OF TEST BORINGS

	GFA International, Inc. 5851 Country Lakes Drive Fort Myers, Florida 33905 239-489-2443 * TeamGFA.com	Client: David Douglas Associates, Inc. Project: Sunshine Blvd. S. and 8th St. SW Lehigh Acres, Lee County, Florida	Date: 10/24/2018 Job No: 18-5333
		Approved by: PJD	Drawn By: CAC

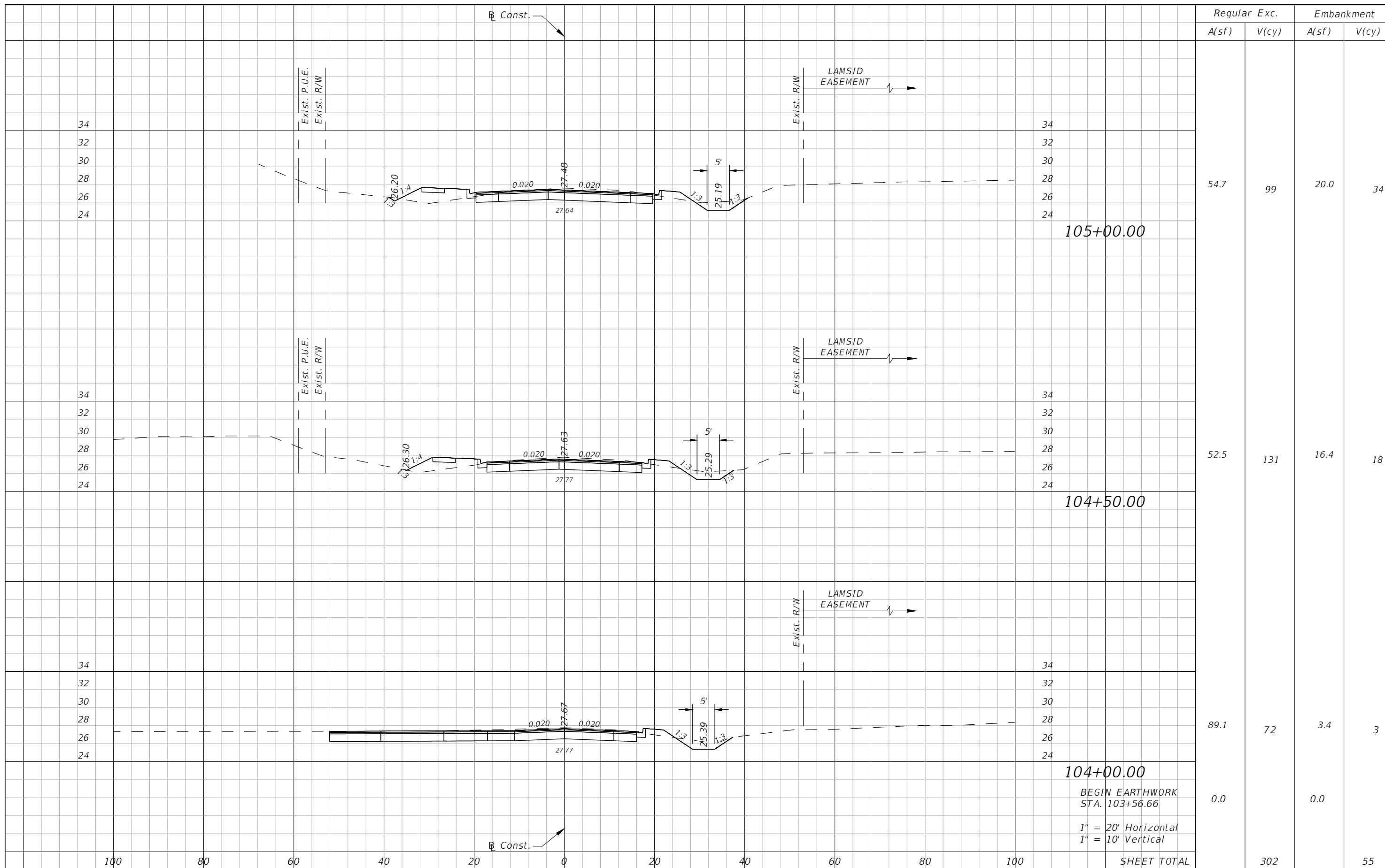
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DANIEL M. CRAIG, P.E.  
 P.E. LICENSE NUMBER 38590  
 DAVID DOUGLAS ASSOCIATES, INC.  
 1821 VICTORIA AVE  
 FORT MYERS, FLORIDA 33901  
 CERTIFICATE OF AUTHORIZATION 7568

LEE COUNTY DEPARTMENT OF TRANSPORTATION		
ROAD NAME	COUNTY	LEE COUNTY NO.
SUNSHINE BLVD.	LEE	CN160311

**ROADWAY SOIL SURVEY**

SHEET NO.  
20



100% Plans Submittal

DATE	DESCRIPTION	DATE	DESCRIPTION
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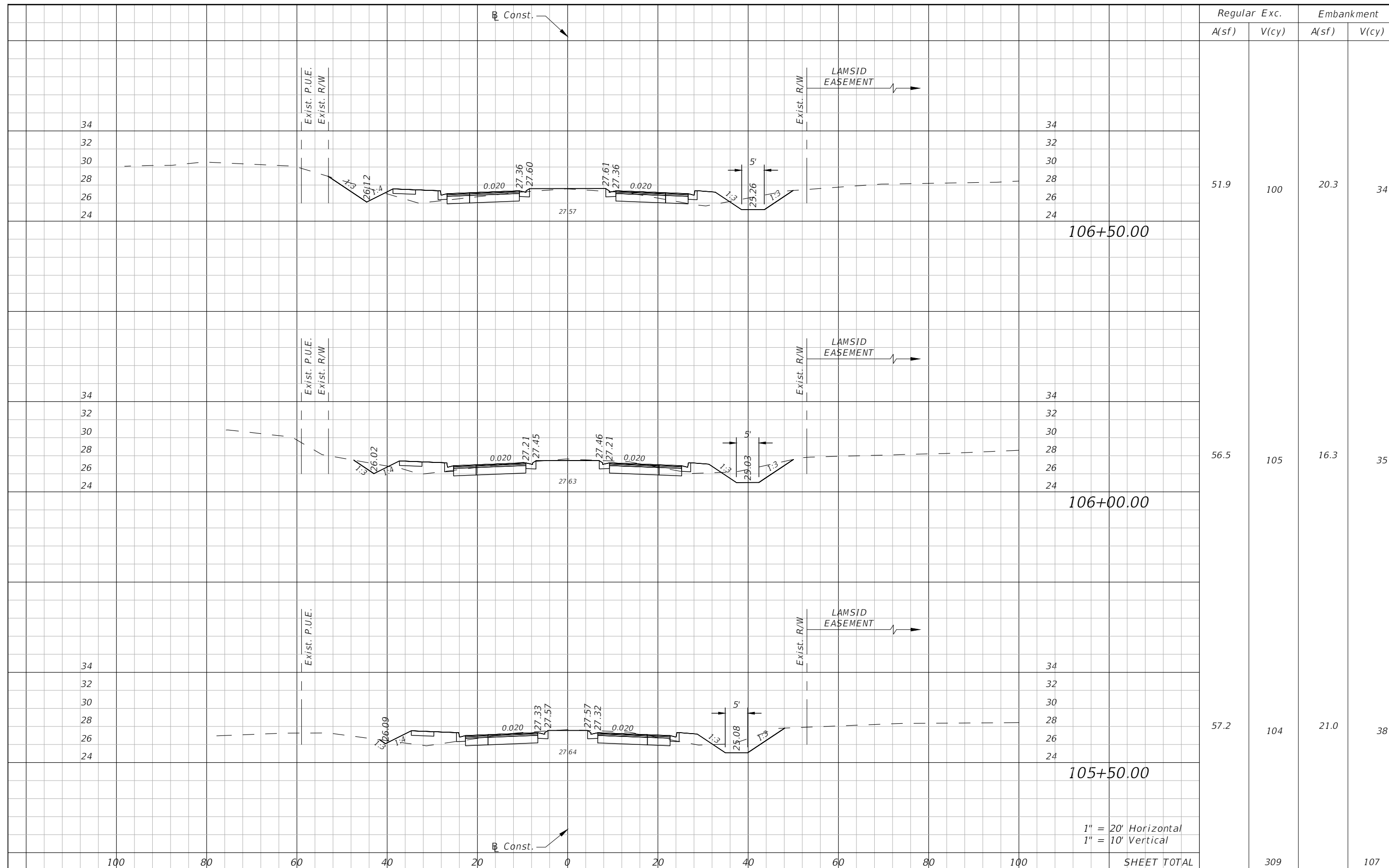
DANIEL M. CRAIG, P.E.  
P.E. LICENSE NUMBER 38590  
DAVID DOUGLAS ASSOCIATES, INC.  
1821 VICTORIA AVE  
FORT MYERS, FLORIDA 33901  
CERTIFICATE OF AUTHORIZATION 7568

**LEE COUNTY**  
**DEPARTMENT OF TRANSPORTATION**

ROAD NAME	COUNTY	LEE COUNTY NO.
SUNSHINE BLVD.	LEE	CN160311

**ROADWAY CROSS SECTIONS**  
**SUNSHINE BLVD.**

SHEET NO.  
21



1" = 20' Horizontal  
1" = 10' Vertical

DATE	DESCRIPTION	DATE	DESCRIPTION
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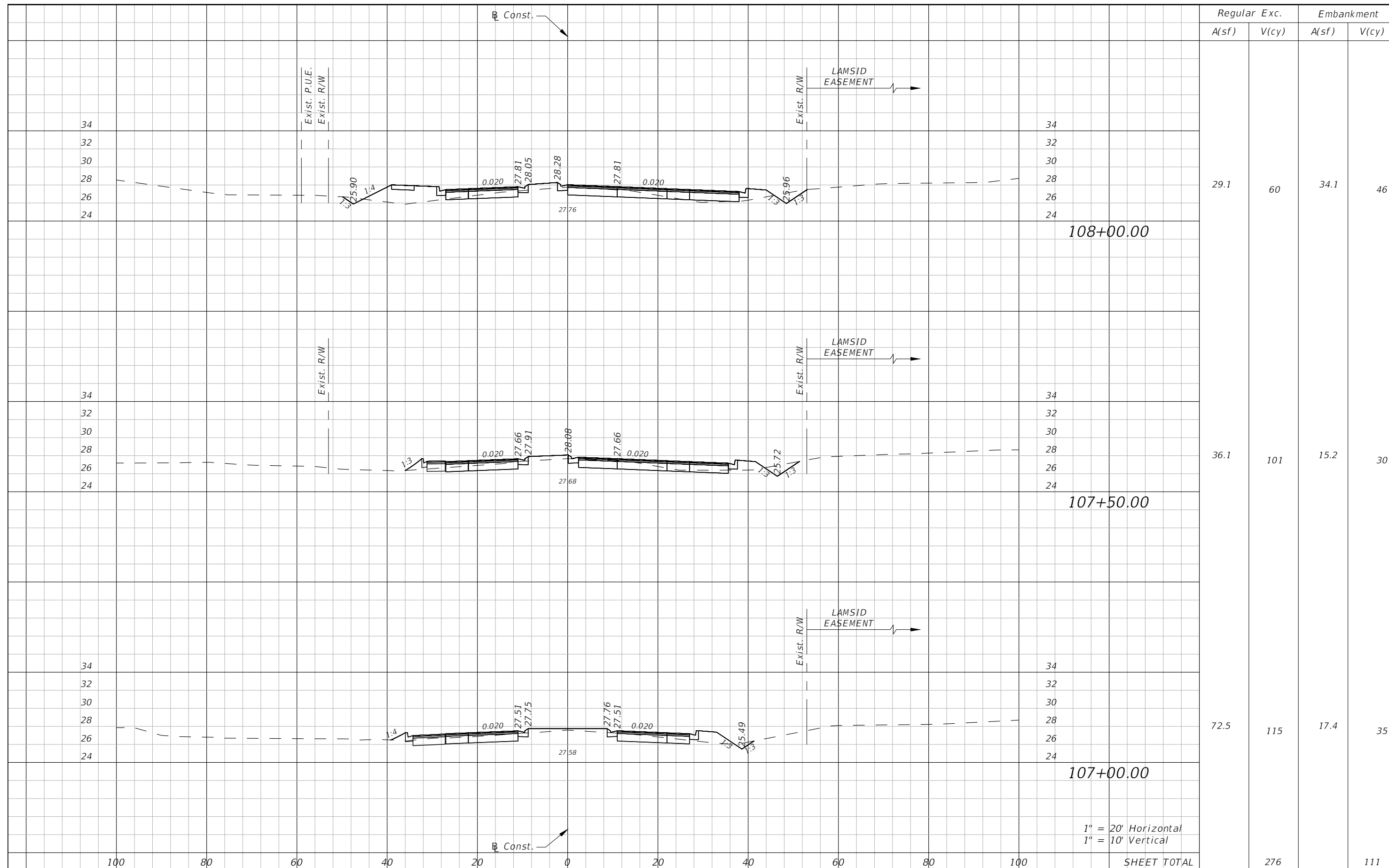
DANIEL M. CRAIG, P.E.  
P.E. LICENSE NUMBER 38590  
DAVID DOUGLAS ASSOCIATES, INC.  
1821 VICTORIA AVE  
FORT MYERS, FLORIDA 33901  
CERTIFICATE OF AUTHORIZATION 7568

LEE COUNTY DEPARTMENT OF TRANSPORTATION		
ROAD NAME	COUNTY	LEE COUNTY NO.
SUNSHINE BLVD.	LEE	CN160311

**ROADWAY CROSS SECTIONS  
SUNSHINE BLVD.**

SHEET NO.  
22

100% Plans Submittal



1" = 20' Horizontal  
1" = 10' Vertical

DATE	DESCRIPTION	DATE	DESCRIPTION
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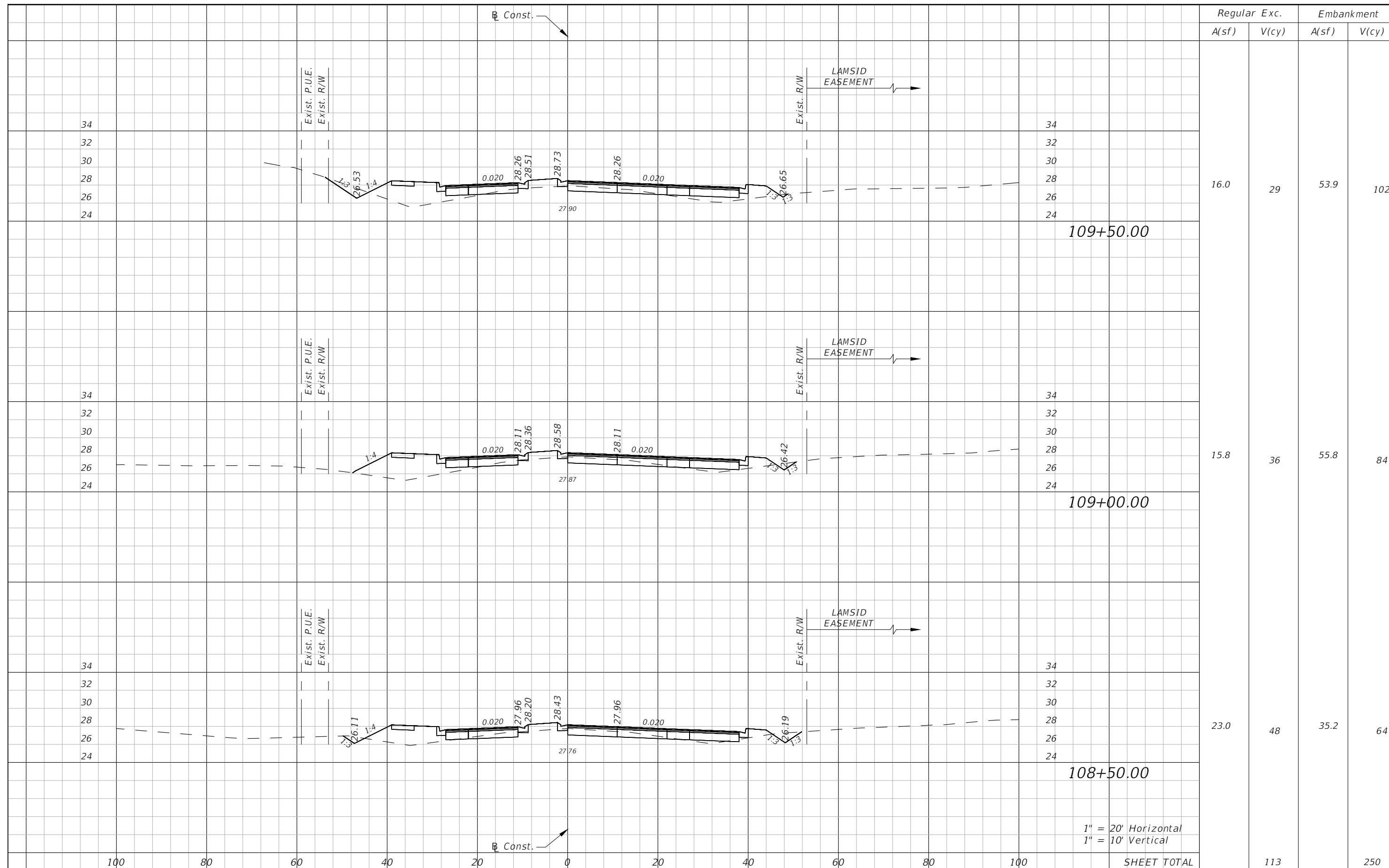
DANIEL M. CRAIG, P.E.  
P.E. LICENSE NUMBER 38590  
DAVID DOUGLAS ASSOCIATES, INC.  
1821 VICTORIA AVE  
FORT MYERS, FLORIDA 33901  
CERTIFICATE OF AUTHORIZATION 7568

LEE COUNTY DEPARTMENT OF TRANSPORTATION		
ROAD NAME	COUNTY	LEE COUNTY NO.
SUNSHINE BLVD.	LEE	CN160311

**ROADWAY CROSS SECTIONS  
SUNSHINE BLVD.**

SHEET NO.  
23

100% Plans Submittal



1" = 20' Horizontal  
1" = 10' Vertical

DATE	DESCRIPTION	DATE	DESCRIPTION
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DANIEL M. CRAIG, P.E.  
P.E. LICENSE NUMBER 38590  
DAVID DOUGLAS ASSOCIATES, INC.  
1821 VICTORIA AVE  
FORT MYERS, FLORIDA 33901  
CERTIFICATE OF AUTHORIZATION 7568

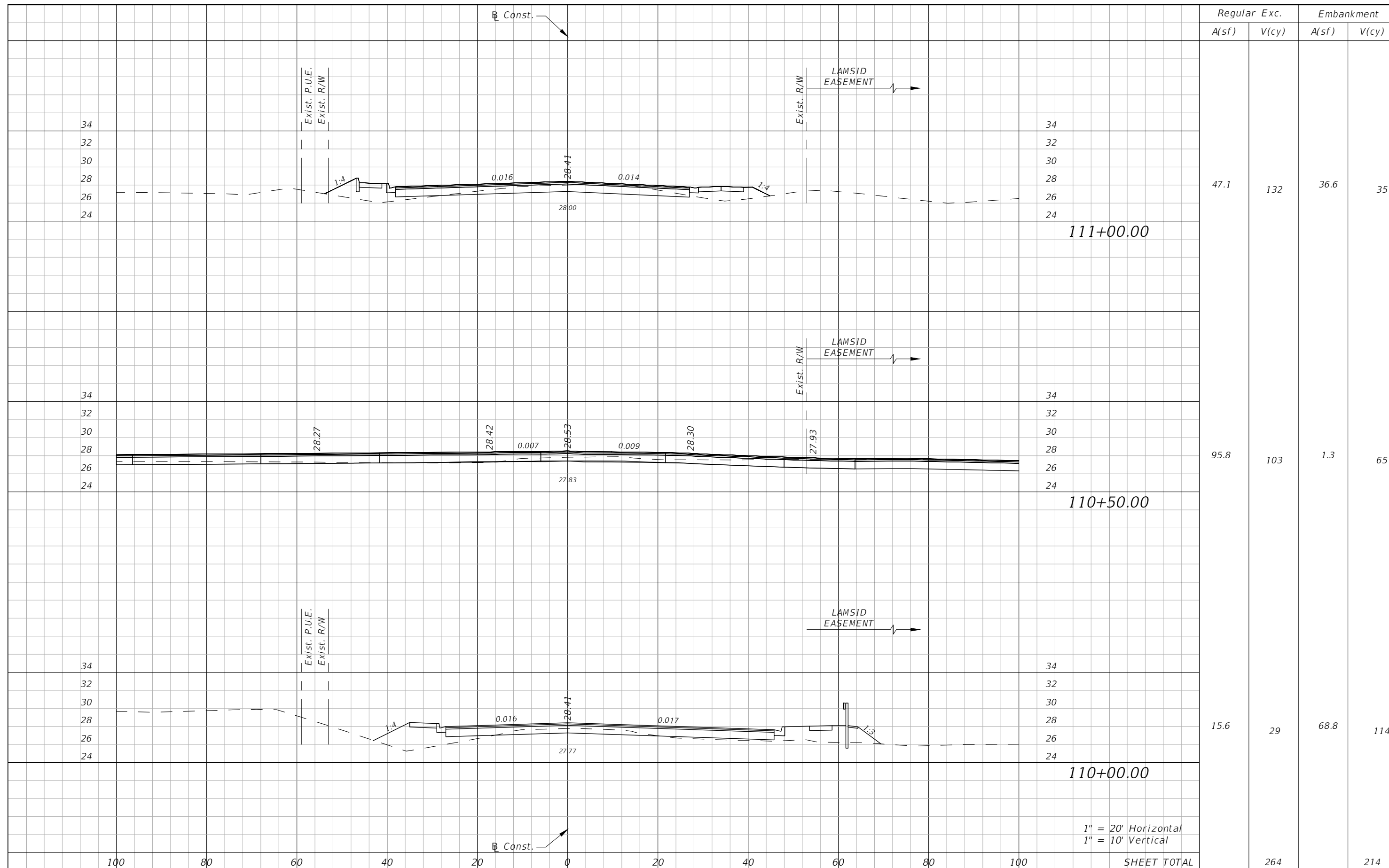
LEE COUNTY DEPARTMENT OF TRANSPORTATION		
ROAD NAME	COUNTY	LEE COUNTY NO.
SUNSHINE BLVD.	LEE	CN160311

**ROADWAY CROSS SECTIONS  
SUNSHINE BLVD.**

SHEET NO.  
24

100% Plans Submittal





100% Plans Submittal

<b>DATE</b>	<b>DESCRIPTION</b>	<b>DATE</b>	<b>DESCRIPTION</b>
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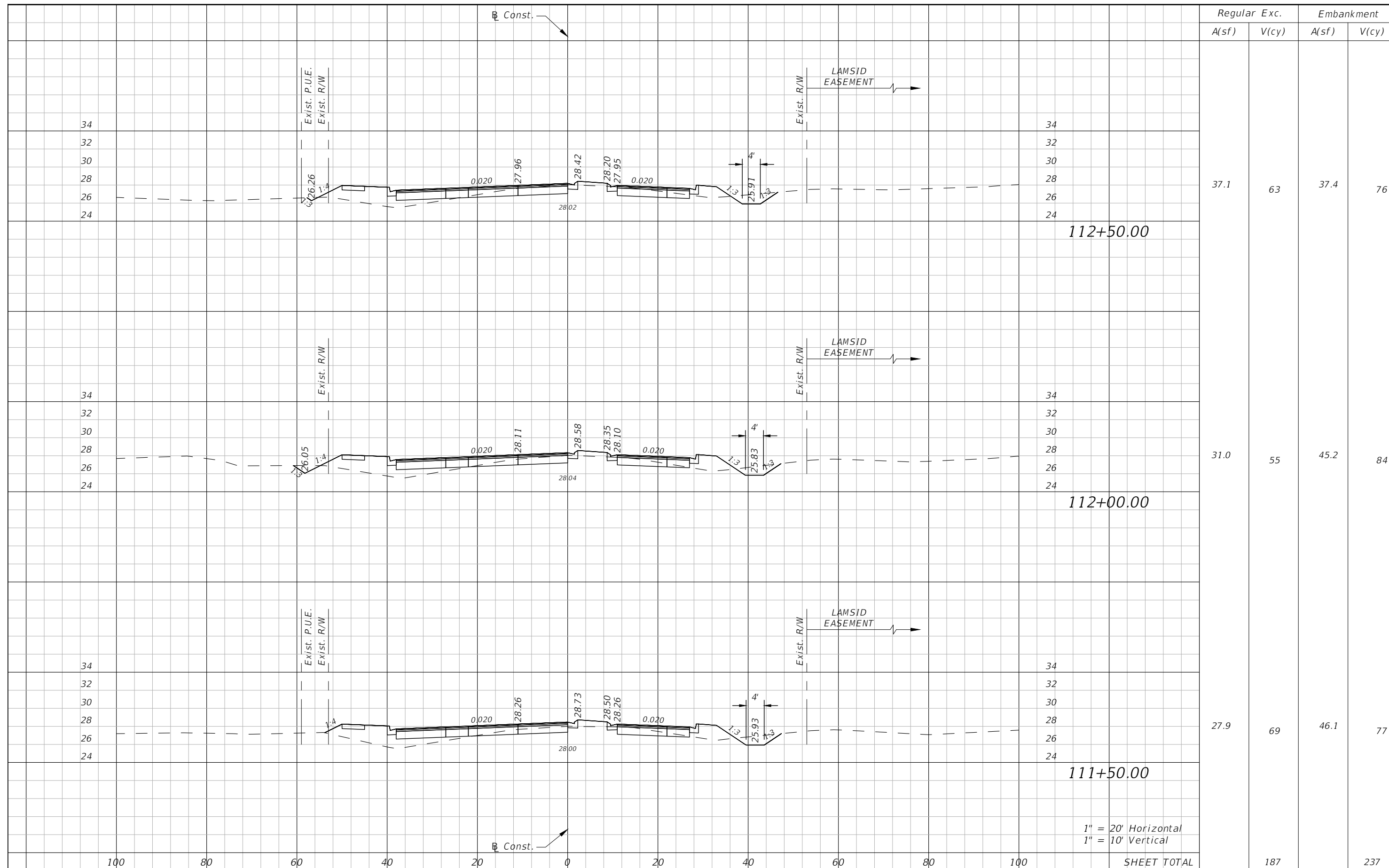
DANIEL M. CRAIG, P.E.  
 P.E. LICENSE NUMBER 38590  
 DAVID DOUGLAS ASSOCIATES, INC.  
 1821 VICTORIA AVE  
 FORT MYERS, FLORIDA 33901  
 CERTIFICATE OF AUTHORIZATION 7568

**LEE COUNTY**  
**DEPARTMENT OF TRANSPORTATION**

ROAD NAME	COUNTY	LEE COUNTY NO.
SUNSHINE BLVD.	LEE	CN160311

**ROADWAY CROSS SECTIONS**  
**SUNSHINE BLVD.**

<b>SHEET NO.</b>	25
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1" = 20' Horizontal  
1" = 10' Vertical

DATE	DESCRIPTION	DATE	DESCRIPTION
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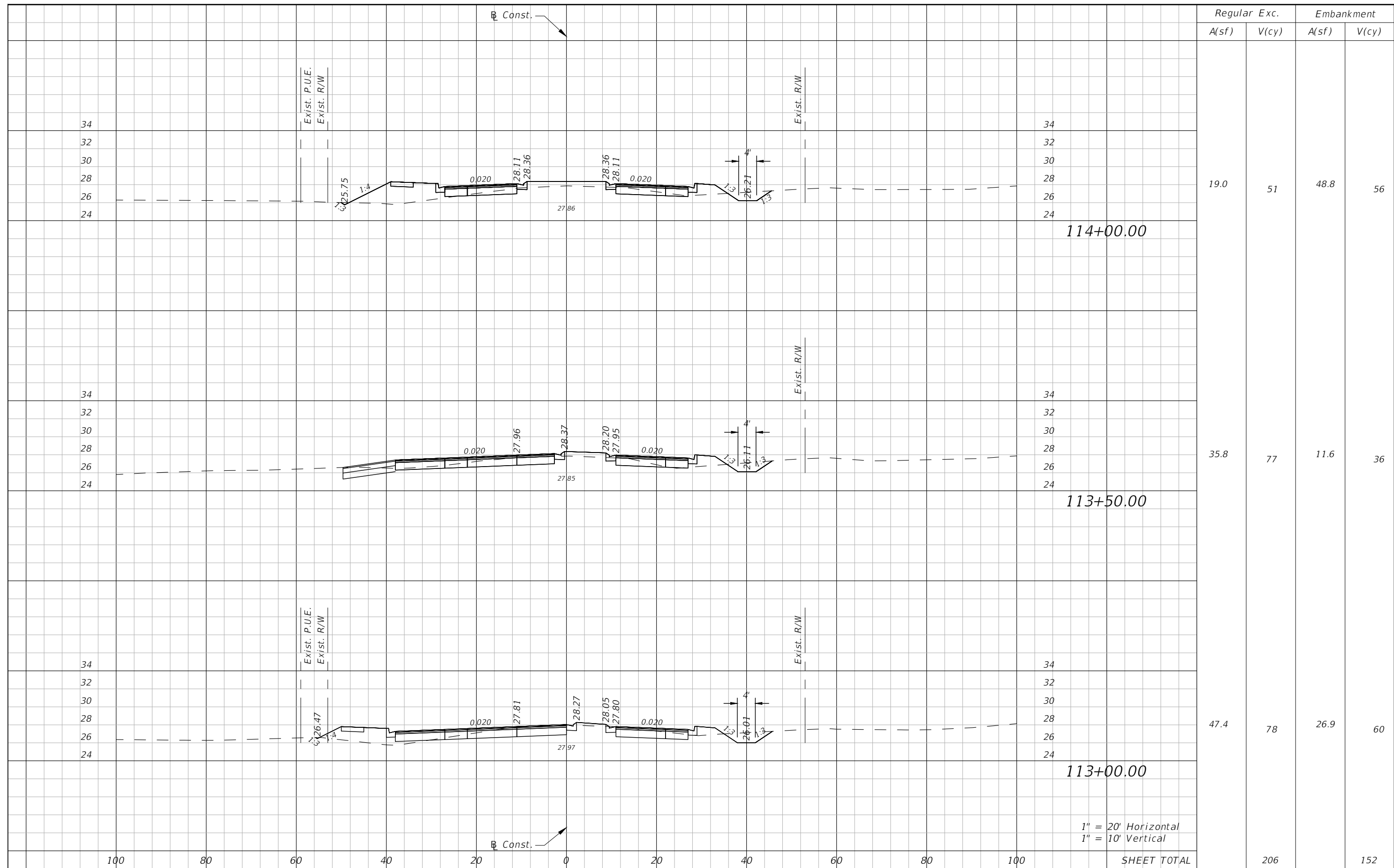
DANIEL M. CRAIG, P.E.  
P.E. LICENSE NUMBER 38590  
DAVID DOUGLAS ASSOCIATES, INC.  
1821 VICTORIA AVE  
FORT MYERS, FLORIDA 33901  
CERTIFICATE OF AUTHORIZATION 7568

LEE COUNTY DEPARTMENT OF TRANSPORTATION		
ROAD NAME	COUNTY	LEE COUNTY NO.
SUNSHINE BLVD.	LEE	CN160311

**ROADWAY CROSS SECTIONS  
SUNSHINE BLVD.**

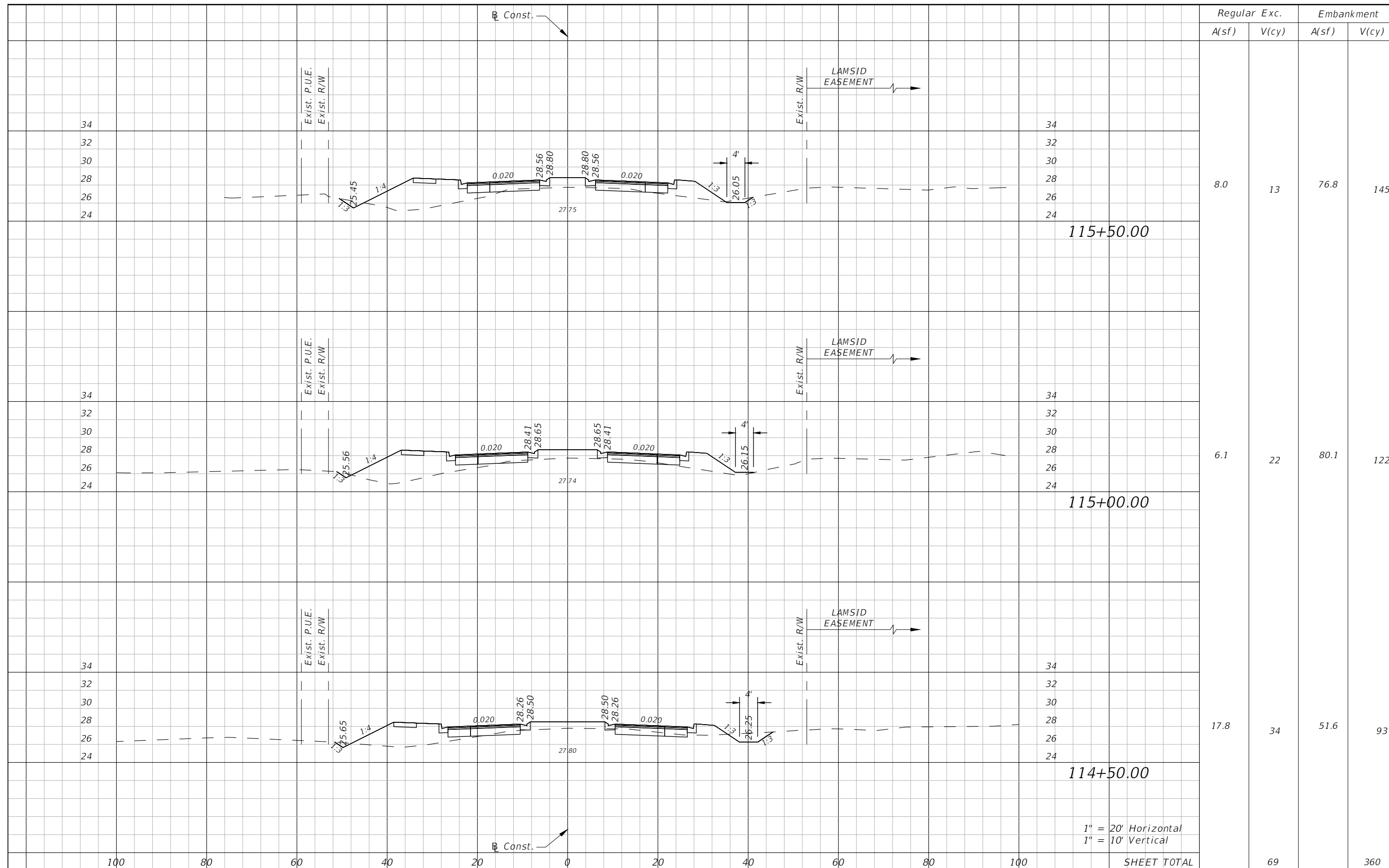
SHEET NO.  
26

100% Plans Submittal



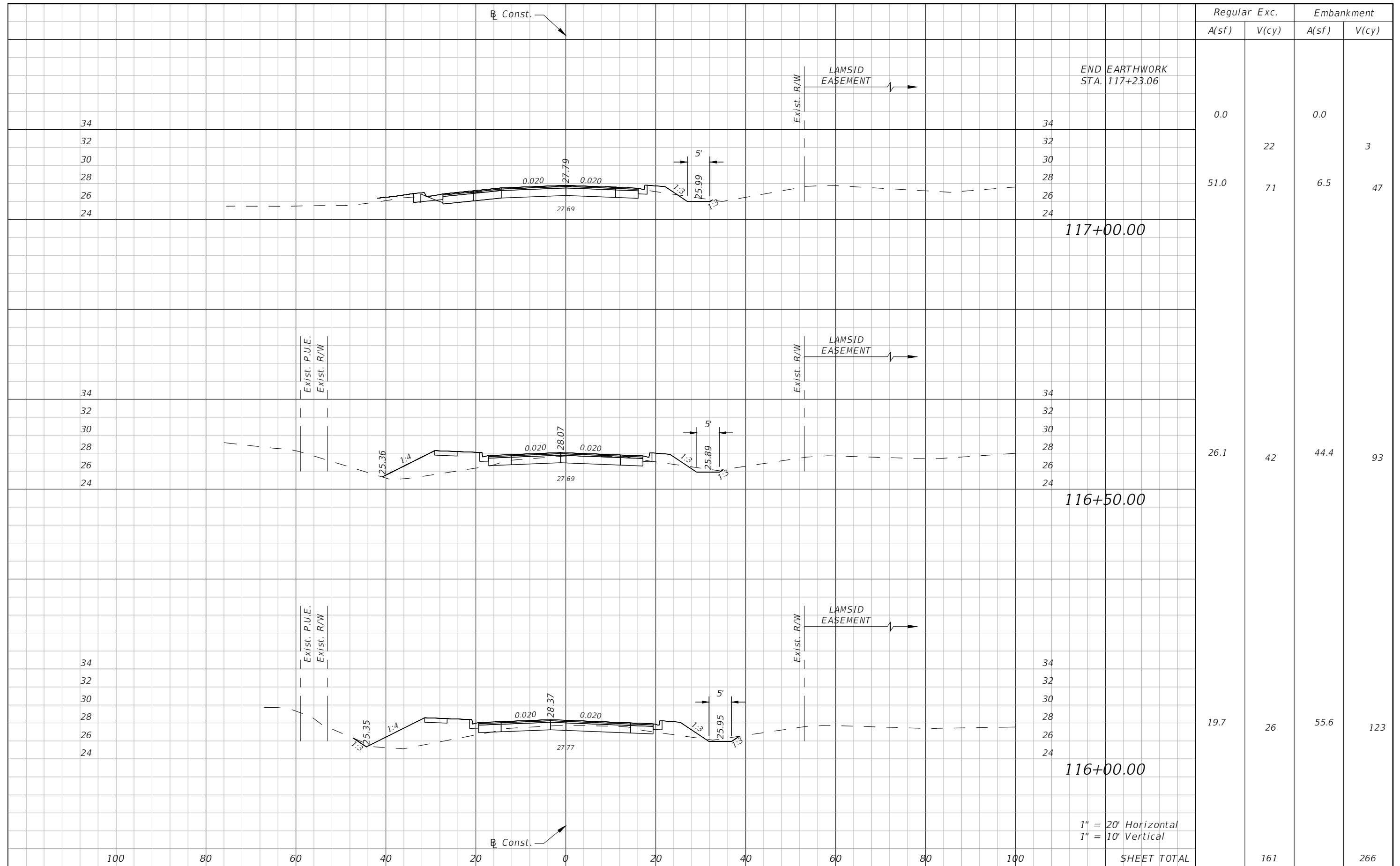
100% Plans Submittal

DATE		DESCRIPTION		DATE		DESCRIPTION		DANIEL M. CRAIG, P.E. P.E. LICENSE NUMBER 38590 DAVID DOUGLAS ASSOCIATES, INC. 1821 VICTORIA AVE FORT MYERS, FLORIDA 33901 CERTIFICATE OF AUTHORIZATION 7568			<b>LEE COUNTY</b> <b>DEPARTMENT OF TRANSPORTATION</b> ROAD NAME      COUNTY      LEE COUNTY NO. SUNSHINE BLVD.      LEE      CN160311			<b>ROADWAY CROSS SECTIONS</b> <b>SUNSHINE BLVD.</b>		SHEET NO. 27
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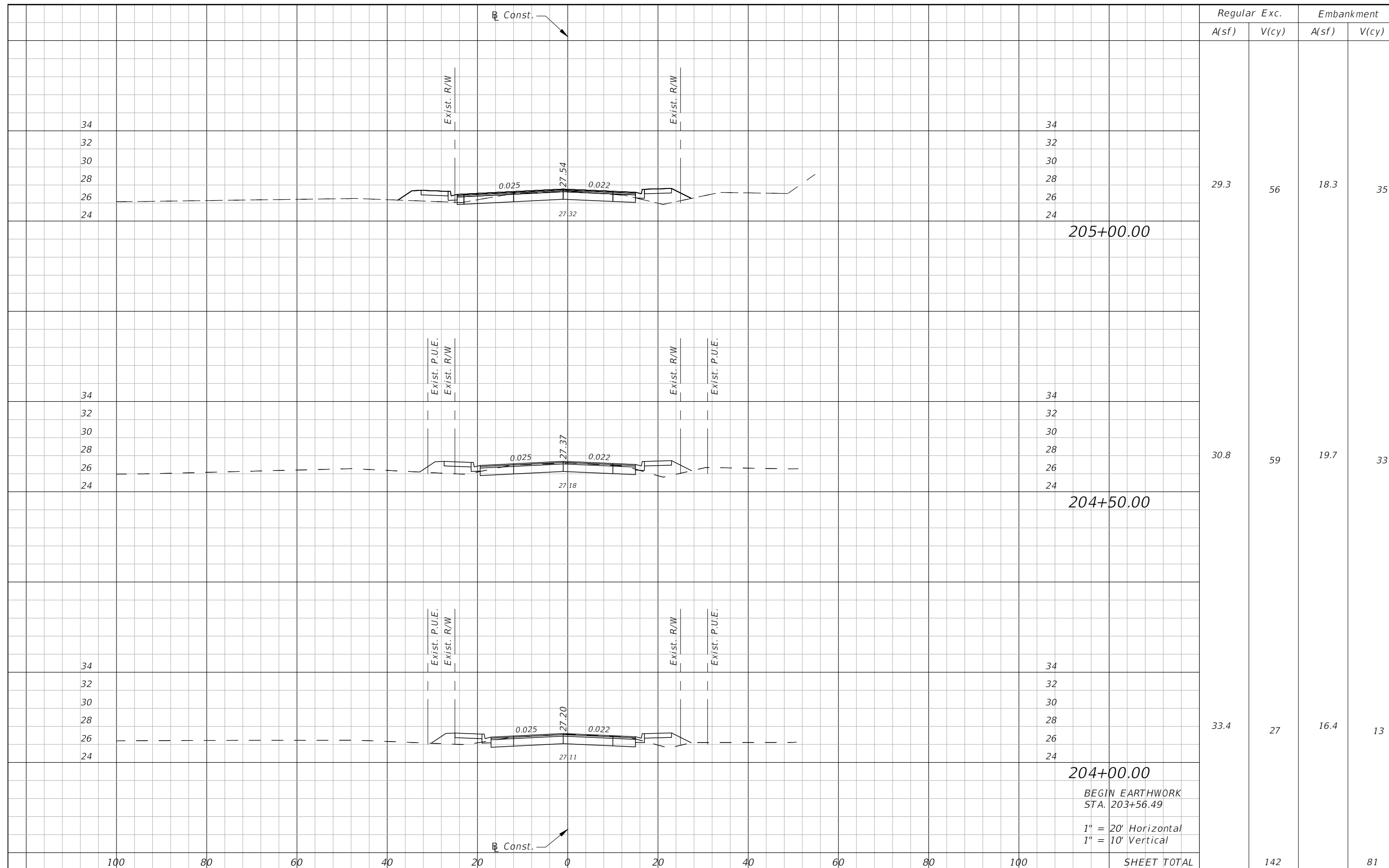
100% Plans Submittal

DATE	DESCRIPTION	DATE	DESCRIPTION	DANIEL M. CRAIG, P.E. P.E. LICENSE NUMBER 38590 DAVID DOUGLAS ASSOCIATES, INC. 1821 VICTORIA AVE FORT MYERS, FLORIDA 33901 CERTIFICATE OF AUTHORIZATION 7568	<b>LEE COUNTY</b> <b>DEPARTMENT OF TRANSPORTATION</b>			<b>ROADWAY CROSS SECTIONS</b> <b>SUNSHINE BLVD.</b>	SHEET NO.
					ROAD NAME	COUNTY	LEE COUNTY NO.		28
					SUNSHINE BLVD.	LEE	CN160311		



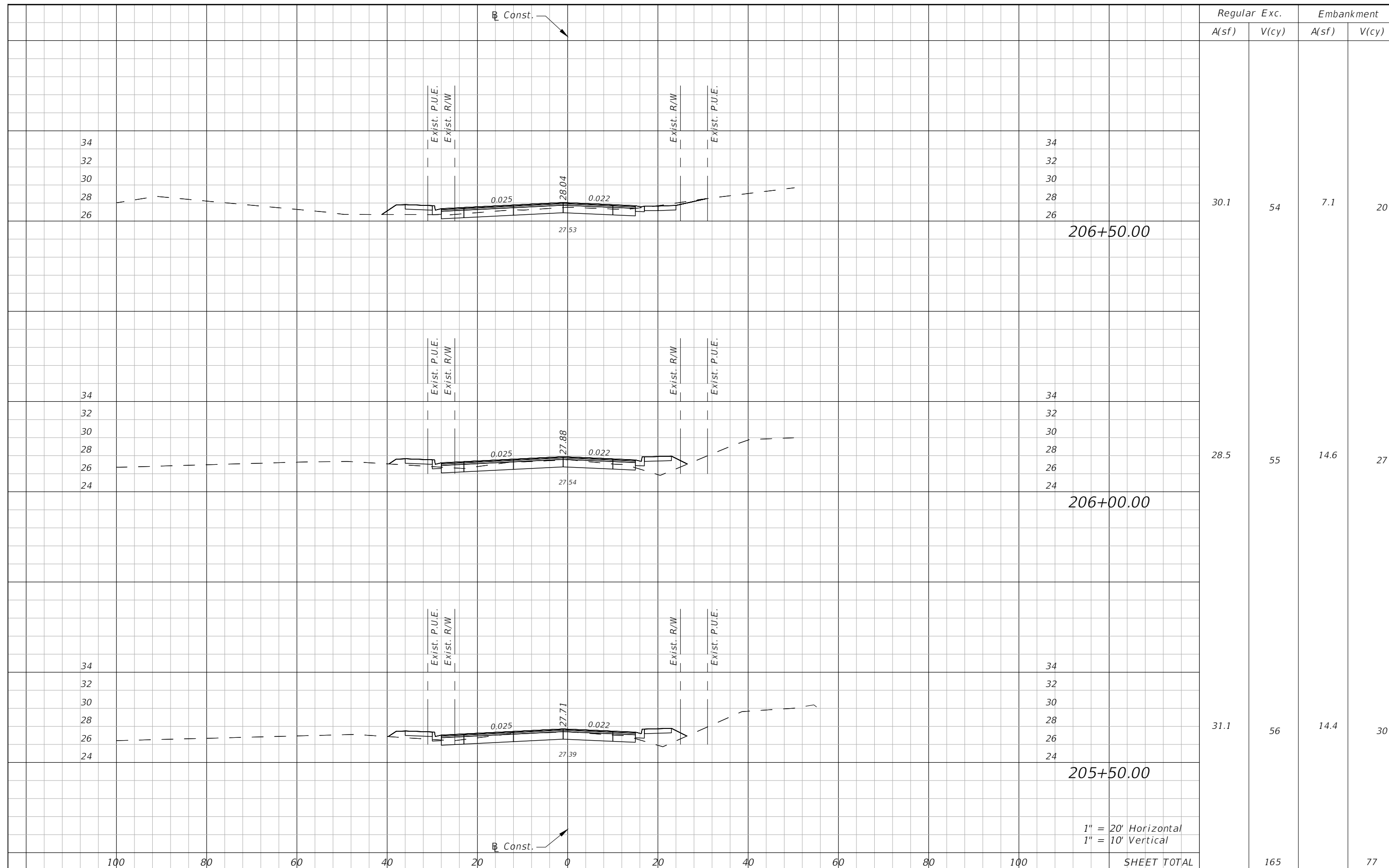
100% Plans Submittal

DATE	DESCRIPTION	DATE	DESCRIPTION	DANIEL M. CRAIG, P.E. P.E. LICENSE NUMBER 38590 DAVID DOUGLAS ASSOCIATES, INC. 1821 VICTORIA AVE FORT MYERS, FLORIDA 33901 CERTIFICATE OF AUTHORIZATION 7568	<b>LEE COUNTY</b> <b>DEPARTMENT OF TRANSPORTATION</b>			<b>ROADWAY CROSS SECTIONS</b> <b>SUNSHINE BLVD.</b>	SHEET NO.
					ROAD NAME	COUNTY	LEE COUNTY NO.		29
					SUNSHINE BLVD.	LEE	CN160311		



100% Plans Submittal

DATE	DESCRIPTION	DATE	DESCRIPTION	DANIEL M. CRAIG, P.E. P.E. LICENSE NUMBER 38590 DAVID DOUGLAS ASSOCIATES, INC. 1821 VICTORIA AVE FORT MYERS, FLORIDA 33901 CERTIFICATE OF AUTHORIZATION 7568	<b>LEE COUNTY</b> <b>DEPARTMENT OF TRANSPORTATION</b>			<b>ROADWAY CROSS SECTIONS</b> <b>8TH ST.</b>	SHEET NO.
					ROAD NAME SUNSHINE BLVD.	COUNTY LEE	LEE COUNTY NO. CN160311		30



1" = 20' Horizontal  
1" = 10' Vertical

DATE	DESCRIPTION	DATE	DESCRIPTION
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DANIEL M. CRAIG, P.E.  
P.E. LICENSE NUMBER 38590  
DAVID DOUGLAS ASSOCIATES, INC.  
1821 VICTORIA AVE  
FORT MYERS, FLORIDA 33901  
CERTIFICATE OF AUTHORIZATION 7568

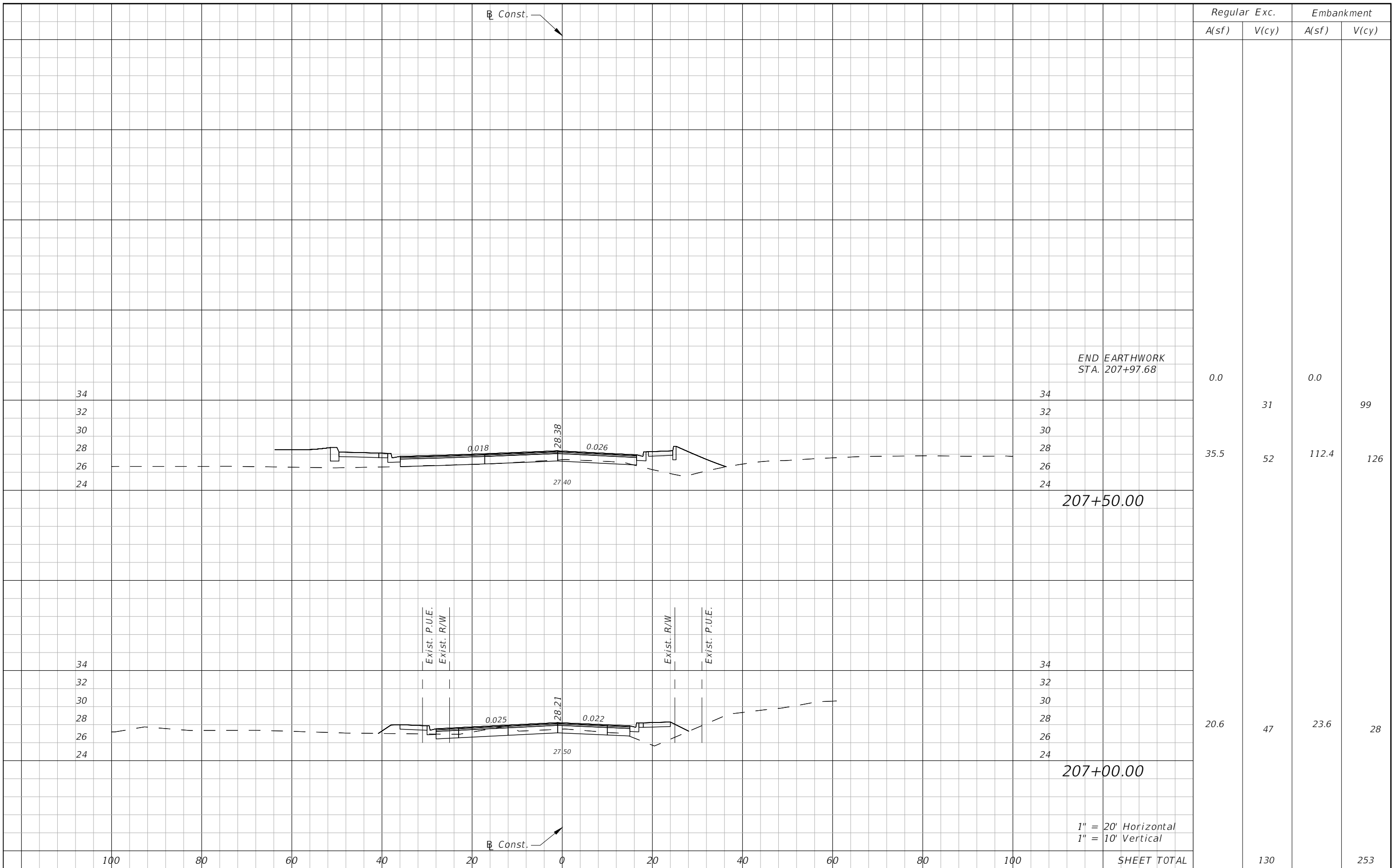
LEE COUNTY DEPARTMENT OF TRANSPORTATION		
ROAD NAME	COUNTY	LEE COUNTY NO.
SUNSHINE BLVD.	LEE	CN160311

**ROADWAY CROSS SECTIONS**  
**8TH ST.**

SHEET NO.  
31

100% Plans Submittal

100% Plans Submittal



DATE	DESCRIPTION	DATE	DESCRIPTION

DANIEL M. CRAIG, P.E.  
 P.E. LICENSE NUMBER 38590  
 DAVID DOUGLAS ASSOCIATES, INC.  
 1821 VICTORIA AVE  
 FORT MYERS, FLORIDA 33901  
 CERTIFICATE OF AUTHORIZATION 7568

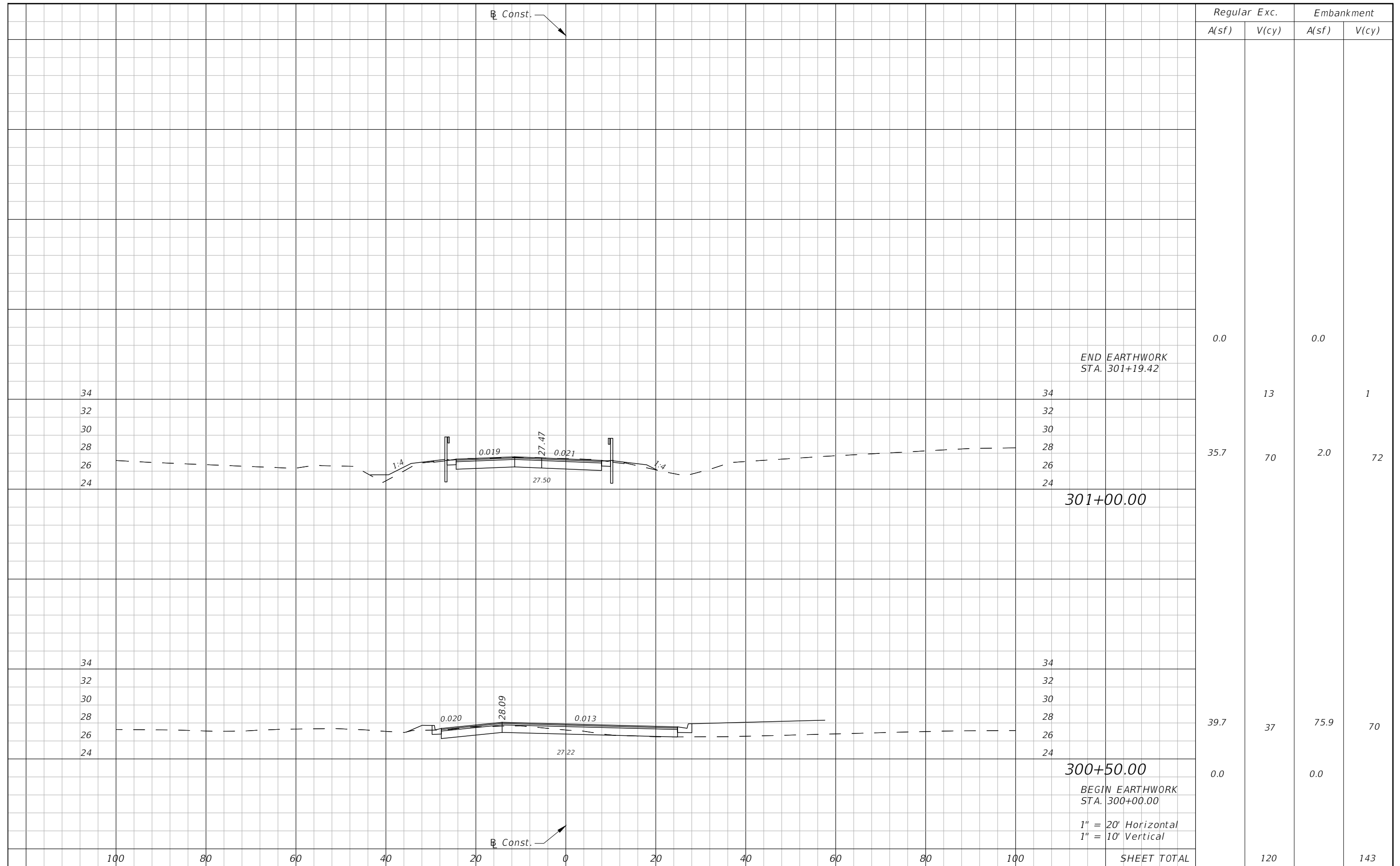
LEE COUNTY DEPARTMENT OF TRANSPORTATION		
ROAD NAME	COUNTY	LEE COUNTY NO.
SUNSHINE BLVD.	LEE	CN160311

**ROADWAY CROSS SECTIONS**  
**8TH ST.**

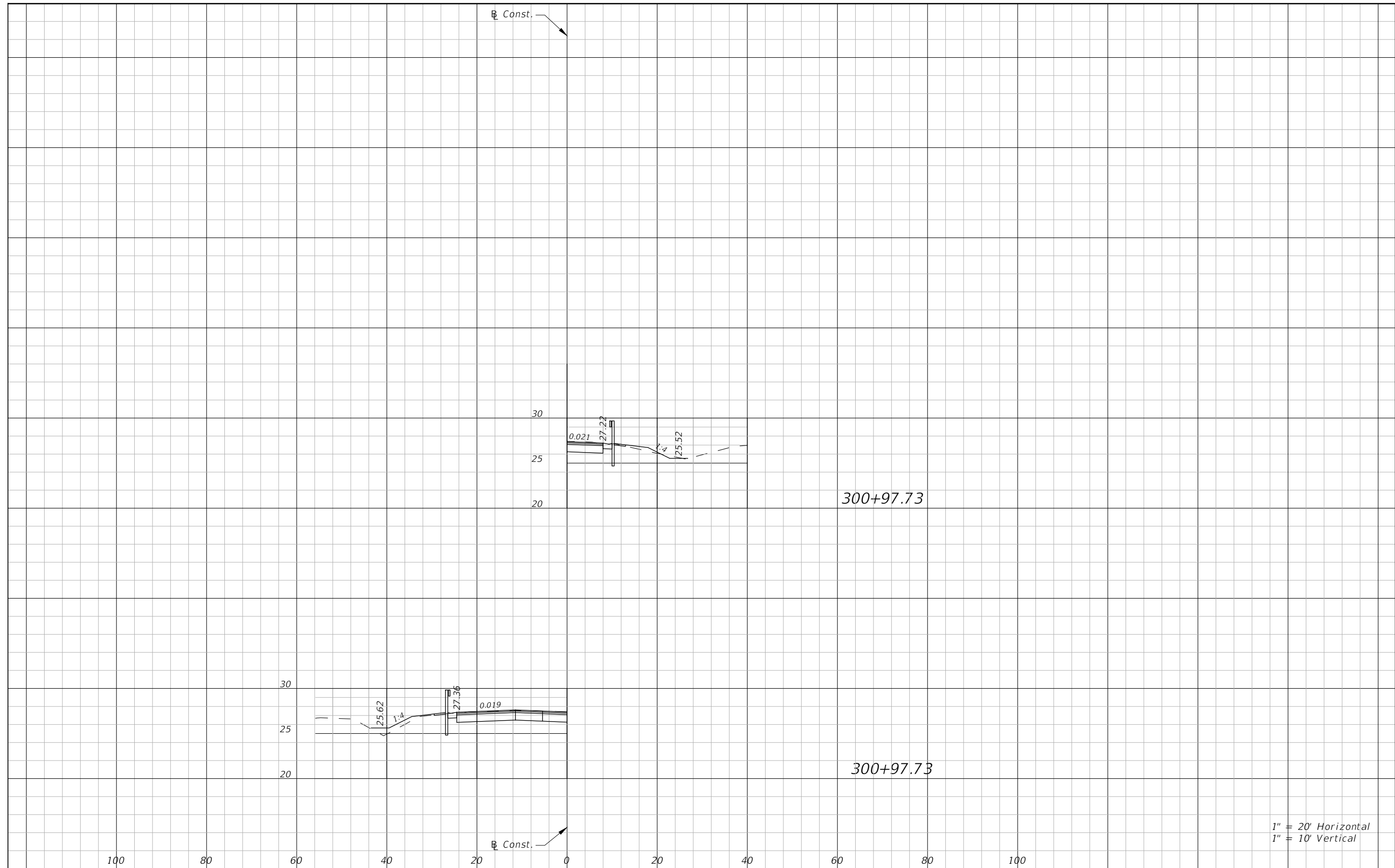
SHEET NO.
32



100% Plans Submittal

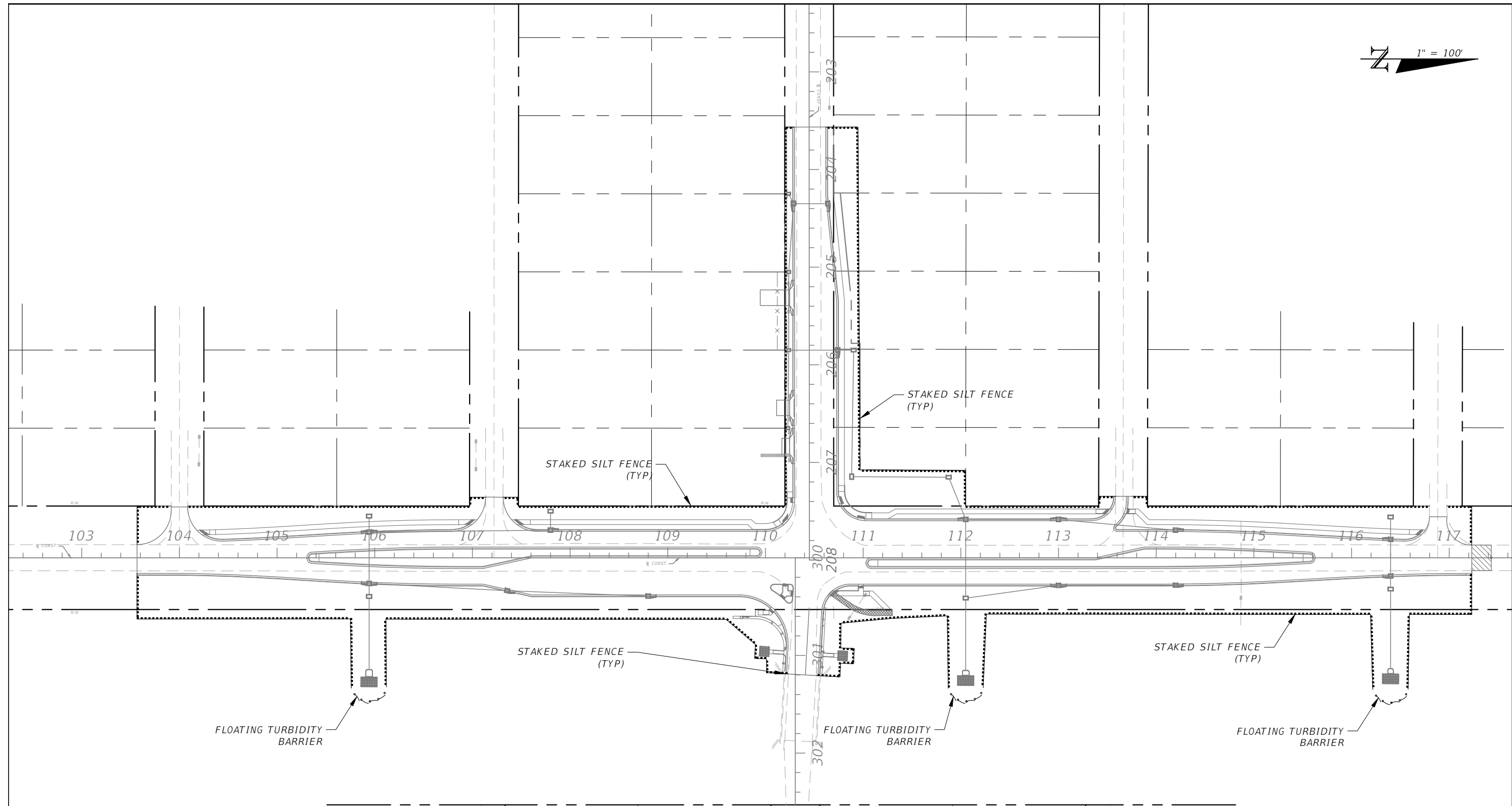
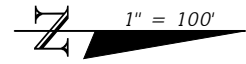


				<b>DANIEL M. CRAIG, P.E.</b> P.E. LICENSE NUMBER 38590 DAVID DOUGLAS ASSOCIATES, INC. 1821 VICTORIA AVE FORT MYERS, FLORIDA 33901 CERTIFICATE OF AUTHORIZATION 7568	<b>LEE COUNTY</b> <b>DEPARTMENT OF TRANSPORTATION</b> ROAD NAME: SUNSHINE BLVD. COUNTY: LEE LEE COUNTY NO.: CN160311	<b>ROADWAY CROSS SECTIONS</b> <b>8TH ST.</b>	SHEET NO. 33
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1" = 20' Horizontal  
1" = 10' Vertical

DATE	DESCRIPTION	DATE	DESCRIPTION	DANIEL M. CRAIG, P.E. P.E. LICENSE NUMBER 38590 DAVID DOUGLAS ASSOCIATES, INC. 1821 VICTORIA AVE FORT MYERS, FLORIDA 33901 CERTIFICATE OF AUTHORIZATION 7568	<b>LEE COUNTY</b> <b>DEPARTMENT OF TRANSPORTATION</b> ROAD NAME      COUNTY      LEE COUNTY NO. SUNSHINE BLVD.      LEE      CN160311	<b>FLUME CROSS SECTIONS</b> <b>8TH ST.</b>	SHEET NO. 34
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NOTE: INLET PROTECTION SYSTEM IS INCLUDED IN THE COST OF PROPOSED DRAINAGE STRUCTURES.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DANIEL M. CRAIG, P.E.  
 P.E. LICENSE NUMBER 38590  
 DAVID DOUGLAS ASSOCIATES, INC.  
 1821 VICTORIA AVE  
 FORT MYERS, FLORIDA 33901  
 CERTIFICATE OF AUTHORIZATION 7568

<b>LEE COUNTY</b> <b>DEPARTMENT OF TRANSPORTATION</b>		
ROAD NAME	COUNTY	LEE COUNTY NO.
SUNSHINE BLVD.	LEE	CN160311

***EROSION CONTROL PLAN***

SHEET NO.  
35

100% Plans Submittal

**PROJECT TRAFFIC CONTROL REQUIREMENTS:**

THE CONTRACTOR IS HEREBY ADVISED THE FOLLOWING NOTES, SKETCHES AND DIAGRAMS ARE INTENDED AS ONLY GUIDELINES FOR THE CONTRACTOR'S TRAFFIC CONTROL PLAN. THE INFORMATION PRESENTED IS NOT TO BE CONSIDERED A COMPLETE AND DETAILED TRAFFIC CONTROL PLAN. THE CONTRACTOR SHALL PROVIDE THE LABOR, EQUIPMENT AND MATERIAL NECESSARY TO PROVIDE AND IMPLEMENT A COMPLETE TRAFFIC CONTROL PLAN PER THE GUIDELINES AND STANDARDS NOTED TO FACILITATE THE CONSTRUCTION OF THE PROJECT.

THE CONTRACTOR'S TRAFFIC CONTROL PLAN SHALL BE SIGNED & SEALED BY AN ENGINEER REGISTERED IN THE STATE OF FLORIDA WITH ADVANCED MOT CERTIFICATION. THE TRAFFIC CONTROL PLAN SHALL BE APPROVED BY LCDOT PRIOR TO CONSTRUCTION. ALL COSTS ASSOCIATED WITH THE TRAFFIC CONTROL PLAN, INCLUDING PREPARATION OF THE PLAN SHALL BE INCLUDED WITH THE LUMP SUM MAINTENANCE OF TRAFFIC PAY ITEM.

**GENERAL NOTES**

1. THE CONTRACTOR'S TRAFFIC CONTROL PLAN SHALL CONFORM TO THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), THE 2018-19 FDOT STANDARD PLANS (102-600 SERIES), AND THE 2018 FDOT STANDARD SPECIFICATIONS FOR ROADWAY AND BRIDGE CONSTRUCTION.
2. REGULATORY SPEED ESTABLISHED DURING CONSTRUCTION FOR SUNSHINE BLVD. AND FOR 8 ST. SW SHALL BE 35 M.P.H.
3. ARROWS IN THE TRAFFIC CONTROL PLANS DENOTE DIRECTION OF TRAFFIC ONLY AND DO NOT REFLECT PAVEMENT MARKINGS, UNLESS OTHERWISE NOTED.
4. LOCATIONS OF ADVANCE WARNING AND OTHER RELATED CONSTRUCTION SIGNS SHALL BE POSITIONED APPROPRIATELY CONSIDERING THE EXISTING FIELD CONDITIONS.
5. THE CONTRACTOR SHALL COORDINATE ALL SEASONAL, WEEKEND AND SPECIAL EVENTS AS THEY OCCUR. DURING GOVERNMENT CELEBRATED HOLIDAYS, HURRICANE OR OTHER CATASTROPHIC EVENTS, NO LANE CLOSURES ARE ALLOWED. ALL OTHER LANES MUST BE OPEN FOR TRAFFIC DURING AN EVACUATION NOTICE OF A HURRICANE OR OTHER CATASTROPHIC EVENT AND SHALL REMAIN OPEN FOR THE DURATION OF THE EVACUATION OR EVENT AS DIRECTED BY THE COUNTY.
6. THE CONTRACTOR IS TO MAINTAIN SAFE ACCESS FOR PEDESTRIANS, PEDESTRIAN CROSSWALKS, BICYCLISTS, AND BUS OPERATIONS DURING CONSTRUCTION, UNLESS OTHERWISE NOTED. IF CLOSURES ARE NECESSARY, THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE COUNTY TO DO SO. IF APPROVAL IS GRANTED THE CONTRACTOR SHALL SIGN APPROPRIATELY USING THE APPROPRIATE FDOT STANDARD INDEXES.
7. THE CONTRACTOR SHALL MAINTAIN SAFE VEHICULAR ACCESS TO ALL ADJACENT PROPERTY AT ALL TIMES. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER ON ANY TEMPORARY CLOSING OF ACCESS PRIOR TO CONSTRUCTION. EXISTING STOP SIGNS SHALL BE UTILIZED IN ALL PHASES AND RELOCATED AS REQUIRED.
8. TRAFFIC DISRUPTIONS WHICH ARE NOT SHOWN BY THE TRAFFIC CONTROL PLAN, BUT WHICH ARE NECESSARY TO CONSTRUCT THE PROJECT, SHALL BE SUBMITTED IN WRITING TO THE COUNTY AND APPROVAL SHALL BE OBTAINED 72 HOURS PRIOR TO COMMENCEMENT OF WORK. SUBMITTAL MATERIAL SHALL INCLUDE SKETCHES, CALCULATIONS AND OTHER DATA AS REQUIRED BY THE COUNTY.
9. THE CONTRACTOR SHALL PROVIDE A CREW, ON CALL 24 HOURS PER DAY, TO BE RESPONSIBLE TO ERECT, INSTALL, CONSTRUCT, RELOCATE, MAINTAIN AND REMOVE ALL TRAFFIC CONTROL SIGNING, PAVEMENT MARKING, BARRIERS, BARRICADES AND OTHER DEVICES AS NECESSARY THROUGHOUT THE PROJECT AREA. SAID CREW SHALL RESPOND WITHIN 2 HOURS OF NOTIFICATION BY THE COUNTY.
10. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING POSITIVE DRAINAGE THROUGHOUT CONSTRUCTION SO AS NOT TO ALLOW THE ACCUMULATION OF WATER ON THE TRAVEL WAY. THIS INCLUDES MAINTAINING THE TEMPORARY AND PERMANENT DRAINAGE FACILITIES.
11. UTILITY/DRAINAGE RELOCATIONS INCLUDED WITHIN THE PROJECT LIMITS SHALL BE SPECIFICALLY PHASED INTO THIS TRAFFIC CONTROL PLAN AND COORDINATED WITH THE APPROPRIATE COMPANIES.
12. THE CONTRACTOR SHALL PROVIDE 4 MESSAGE BOARDS TO BE LOCATED ON EACH DIRECTION OF TRAFFIC 4 WEEKS PRIOR TO CONSTRUCTION. CONTRACTOR TO COORDINATE WITH LCDOT FOR SPECIFIC REQUIREMENTS.
13. DAY TIME LANE CLOSURES SHALL NOT OCCUR ON EITHER ROADWAY. AUTHORIZATION, WHICH MAY OR MAY NOT BE GRANTED, FROM LEE COUNTY WILL BE REQUIRED FOR LANE CLOSURES.

**SUNSHINE BLVD. PHASING NOTES**

**PHASE I**

1. PRIOR TO SETUP OF FULL PHASE I WORK ZONE ON SUNSHINE BLVD., USE FDOT STANDARD PLANS 102 AND ESTABLISH WORK ZONE FROM STA.103+56.66 TO STA.117+23.01.
2. PLACE ADVANCE WARNING SIGNS AND ESTABLISH PHASE I WORK ZONE.
3. MAINTAIN TWO-LANE/TWO-WAY TRAFFIC ON THE EXISTING SUNSHINE BLVD. WHILE CONSTRUCTING WEST SIDE OF ROADWAY ON THE NORTHBOUND SIDE AND EAST SIDE OF ROADWAY ON THE SOUTHBOUND SIDE. MAINTAIN ACCESS TO ALL SIDE STREETS.
4. PLACE TEMPORARY PAVEMENT MARKINGS (PAINT) FOR TWO-LANE/TWO-WAY TRAFFIC ON SUNSHINE BLVD. FOR PHASE II.

**PHASE II**

1. ADJUST ADVANCE WARNING SIGNS AS NECESSARY AND ESTABLISH PHASE II WORK ZONE.
2. SHIFT SOUTHBOUND TRAFFIC FROM THE EXISTING SUNSHINE BLVD. ROADWAY ONTO THE NEWLY CONSTRUCTED ROADWAY AND RELOCATE NORTHBOUND TRAFFIC TO THE EXISTING SOUTHBOUND SUNSHINE BLVD. ROADWAY.
3. CONSTRUCT EAST SIDE OF ROADWAY ON THE NORTHBOUND SIDE AND THE WEST SIDE OF ROADWAY ON THE SOUTHBOUND SIDE. MAINTAIN ACCESS TO ALL SIDE STREETS.
4. PLACE TEMPORARY PAVEMENT MARKINGS (PAINT) FOR PHASE III.

**PHASE III**

1. ADJUST ADVANCE WARNING SIGNS AS NECESSARY AND ESTABLISH PHASE III WORK ZONE.
2. SHIFT NORTHBOUND TRAFFIC TO THE NEWLY CONSTRUCTED ROADWAY, INCLUDING RIGHT TURN LANES.
3. CONSTRUCT MEDIAN WORK ALONG WITH REMAINING ROADWAY.

**PHASE IV**

1. PLACE FRICTION COURSE ON ROADWAY.
2. PLACE TEMPORARY PAVEMENT MARKINGS (PAINT) IN THE FINAL LOCATION PER THE SIGNING AND PAVEMENT MARKING PLANS.

**PHASE V**

1. PLACE THERMOPLASTIC FINAL PAVEMENT MARKINGS IN THE FINAL LOCATION PER THE SIGNING AND PAVEMENT MARKING PLANS.
2. REMOVE ANY REMAINING TRAFFIC CONTROL DEVICES.

**TYPICAL SECTION NOTES:**

1. TYPICAL SECTION FOR SUNSHINE BLVD. IS MIRRORED FROM OUTSIDE CURB LINE TO OUTSIDE CURB LINE BEGINNING AT STA. 110+44.91 TO STA. 117+23.01.

**8th St SW PHASING NOTES (WEST OF SUNSHINE BLVD.)**

**PHASE I**

1. PRIOR TO SETUP OF FULL PHASE I WORK ZONE ON 8 ST. SW., USE FDOT STANDARD PLANS 102 AND ESTABLISH WORK ZONE FROM STA.203+56.49 TO STA.207+44.68.
2. PLACE ADVANCE WARNING SIGNS AND ESTABLISH PHASE I WORK ZONE.
3. PLACE TEMPORARY PAVEMENT MARKINGS (PAINT) TO ESTABLISH TRAFFIC FLOW ALONG EXISTING SOUTHERN SIDE OF 8TH ST SW.
4. MAINTAIN TWO-LANE/TWO-WAY TRAFFIC ON THE EXISTING 8TH ST SW ROADWAY.
5. PLACE TEMPORARY PAVEMENT MARKINGS (PAINT) FOR TWO-LANE/TWO-WAY TRAFFIC ON 8TH ST SW FOR PHASE II.

**PHASE II**

1. ADJUST ADVANCE WARNING SIGNS AS NECESSARY AND ESTABLISH PHASE II WORK ZONE.
2. SHIFT TRAFFIC TO THE NEWLY CONSTRUCTED ROADWAY.
3. CONSTRUCT SOUTH SIDE OF ROADWAY IMPROVEMENTS.

**PHASE III**

1. PLACE TEMPORARY PAVEMENT MARKINGS (PAINT) IN THE FINAL LOCATION PER THE SIGNING AND PAVEMENT MARKING PLANS.
2. PLACE FRICTION COURSE ON ROADWAY.

**PHASE IV**

1. PLACE THERMOPLASTIC FINAL PAVEMENT MARKINGS IN THE FINAL LOCATION PER THE SIGNING AND PAVEMENT MARKINGS PLANS.
2. REMOVE ANY REMAINING TRAFFIC CONTROL DEVICES.

**8th St SW PHASING NOTES (EAST SIDE OF SUNSHINE BLVD.)**

**PHASE I**

1. PRIOR TO SETUP OF FULL PHASE I WORK ZONE ON 8 ST. SW., USE FDOT STANDARD PLANS 102 AND ESTABLISH WORK ZONE FROM STA.300+53.00 TO STA.301+19.42.
2. PLACE ADVANCE WARNING SIGNS AND ESTABLISH PHASE I WORK ZONE.
3. PLACE TEMPORARY PAVEMENT MARKINGS (PAINT) TO ESTABLISH TRAFFIC FLOW ALONG EXISTING NORTHERN SIDE OF 8TH ST SW.
4. MAINTAIN ONE-LANE/TWO-WAY TRAFFIC ON THE EXISTING 8TH ST SW ROADWAY WITH FLAGGER DURING CONSTRUCTION OPERATIONS AND TEMPORARY SIGNALIZATION DURING ALL OTHER TIMES.
5. PLACE TEMPORARY PAVEMENT MARKINGS (PAINT) FOR ONE-LANE/TWO-WAY TRAFFIC ON 8TH ST SW FOR PHASE II.

**PHASE II**

1. ADJUST ADVANCE WARNING SIGNS AS NECESSARY AND ESTABLISH PHASE II WORK ZONE.
2. SHIFT TRAFFIC TO THE NEWLY CONSTRUCTED ROADWAY.
3. CONSTRUCT NORTH SIDE OF ROADWAY IMPROVEMENTS.

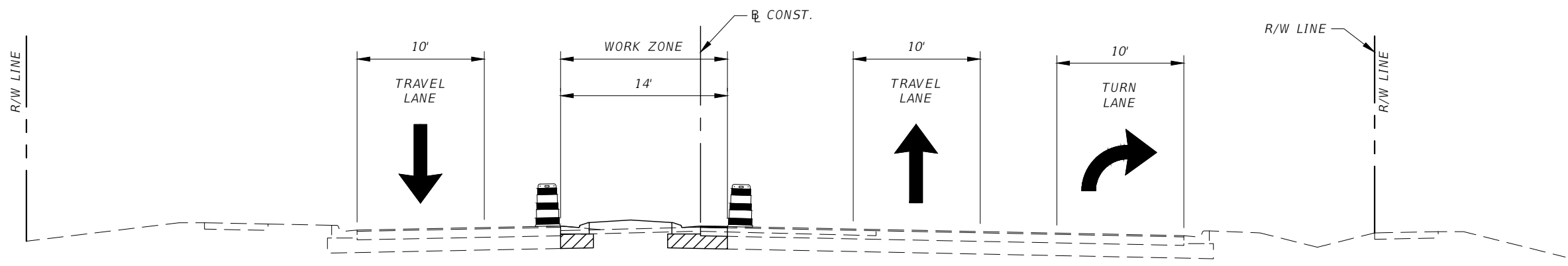
**PHASE III**

1. PLACE TEMPORARY PAVEMENT MARKINGS (PAINT) IN THE FINAL LOCATION PER THE SIGNING AND PAVEMENT MARKING PLANS.
2. PLACE FRICTION COURSE ON ROADWAY.

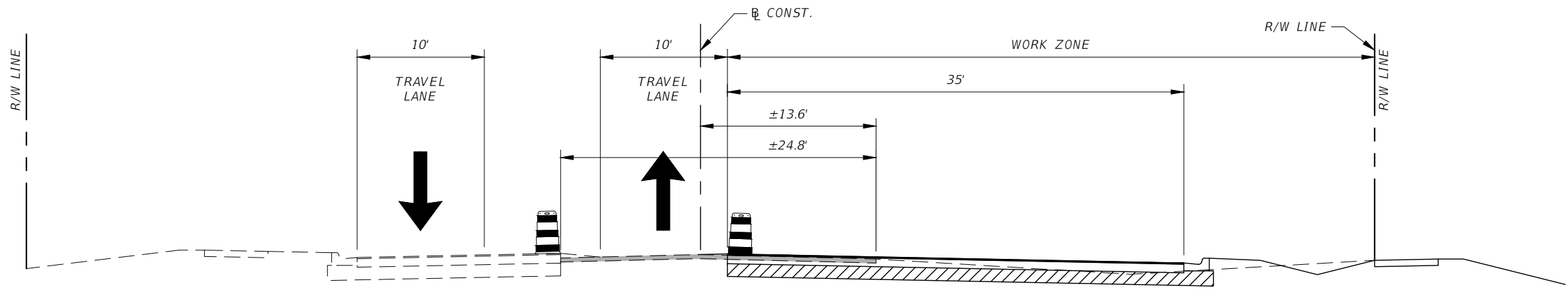
**PHASE IV**

1. PLACE THERMOPLASTIC FINAL PAVEMENT MARKINGS IN THE FINAL LOCATION PER THE SIGNING AND PAVEMENT MARKINGS PLANS.
2. REMOVE ANY REMAINING TRAFFIC CONTROL DEVICES.

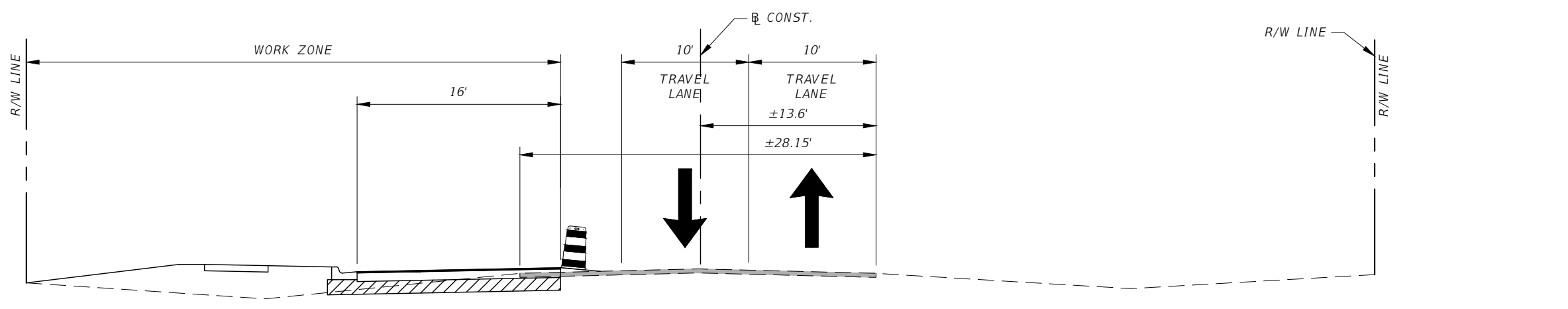
REVISIONS				DANIEL M. CRAIG, P.E. P.E. LICENSE NUMBER 38590 DAVID DOUGLAS ASSOCIATES, INC. 1821 VICTORIA AVE FORT MYERS, FLORIDA 33901 CERTIFICATE OF AUTHORIZATION 7568	LEE COUNTY DEPARTMENT OF TRANSPORTATION			TRAFFIC CONTROL GENERAL NOTES & PHASING NOTES	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NAME	COUNTY	LEE COUNTY NO.		
---	---				SUNSHINE BLVD.	LEE	CN160311		36



**SUNSHINE BLVD.**  
**TRAFFIC CONTROL PHASE III**  
 NTS

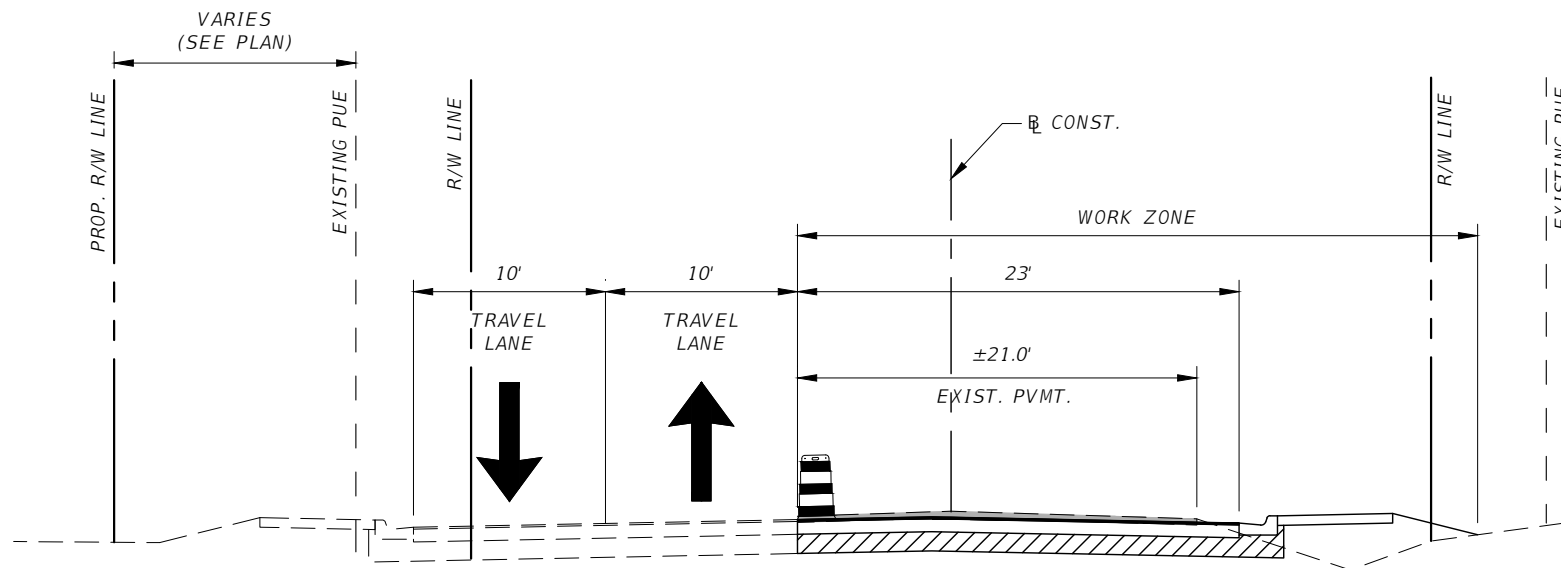


**SUNSHINE BLVD.**  
**TRAFFIC CONTROL PHASE II**  
 NTS

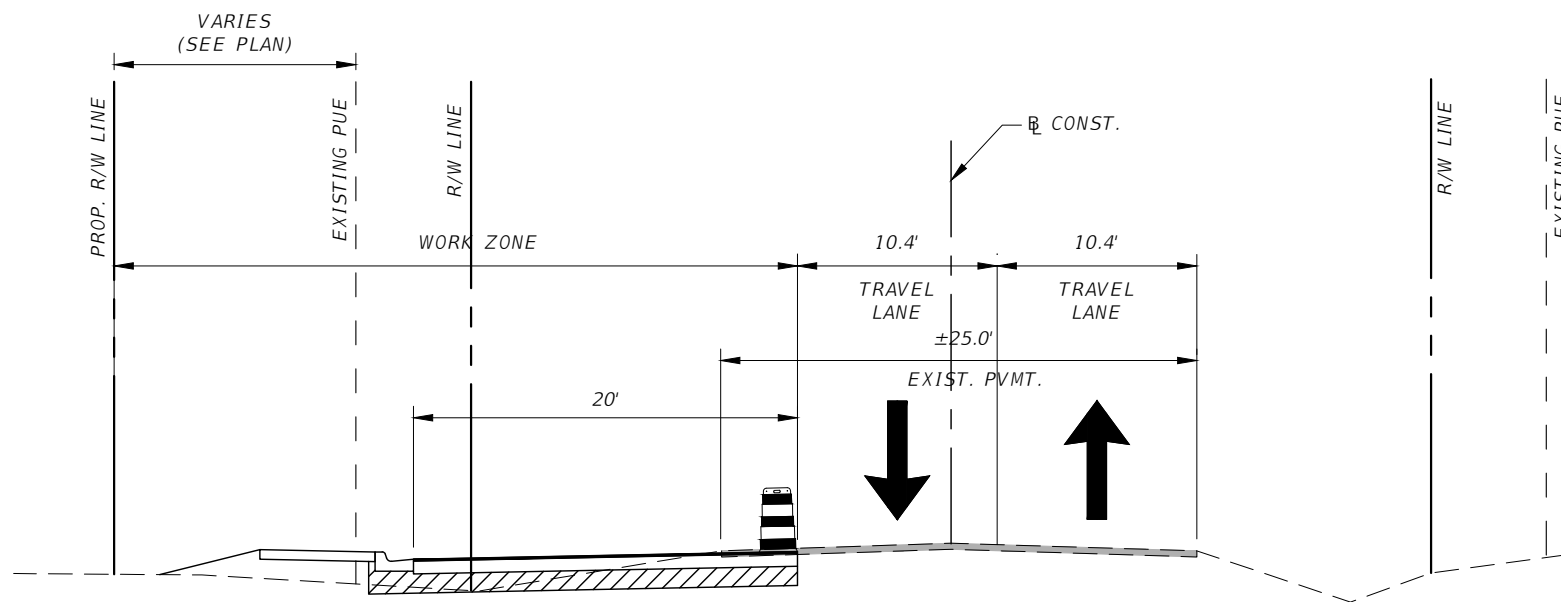


**SUNSHINE BLVD.**  
**TRAFFIC CONTROL PHASE I**  
 NTS

REVISIONS				DANIEL M. CRAIG, P.E. P.E. LICENSE NUMBER 38590 DAVID DOUGLAS ASSOCIATES, INC. 1821 VICTORIA AVE FORT MYERS, FLORIDA 33901 CERTIFICATE OF AUTHORIZATION 7568	LEE COUNTY DEPARTMENT OF TRANSPORTATION			<b>TRAFFIC CONTROL PLAN</b> <b>TYPICAL SECTIONS</b>	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NAME	COUNTY	LEE COUNTY NO.		37
---	---	---	---		SUNSHINE BLVD.	LEE	CN160311		

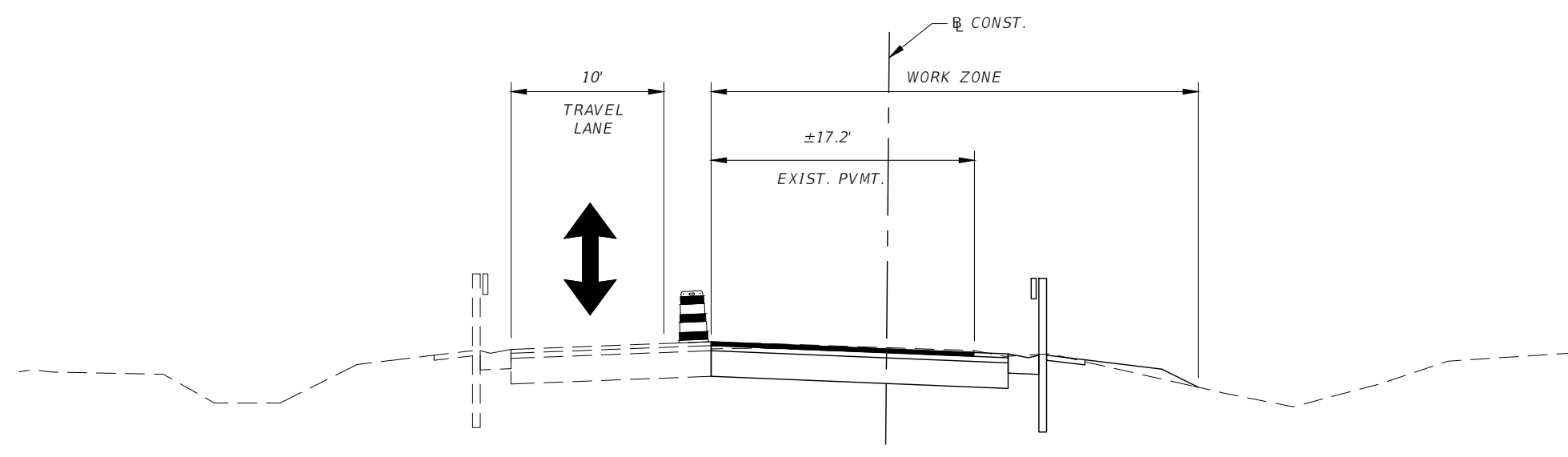


**8th St SW (WEST OF SUNSHINE BLVD.)**  
**TRAFFIC CONTROL PHASE II**  
 NTS

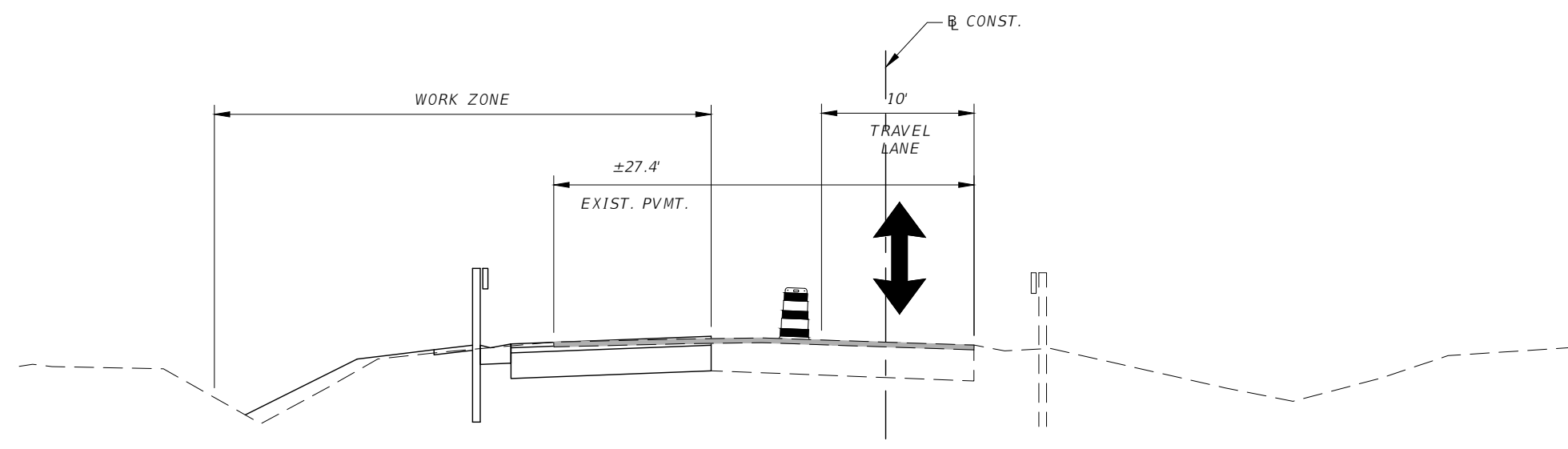


**8th St SW (WEST OF SUNSHINE BLVD.)**  
**TRAFFIC CONTROL PHASE I**  
 NTS

REVISIONS				DANIEL M. CRAIG, P.E. P.E. LICENSE NUMBER 38590 DAVID DOUGLAS ASSOCIATES, INC. 1821 VICTORIA AVE FORT MYERS, FLORIDA 33901 CERTIFICATE OF AUTHORIZATION 7568	LEE COUNTY DEPARTMENT OF TRANSPORTATION			<b>TRAFFIC CONTROL PLAN</b> <b>TYPICAL SECTIONS</b>	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NAME	COUNTY	LEE COUNTY NO.		38
---	---	---	---		SUNSHINE BLVD.	LEE	CN160311		

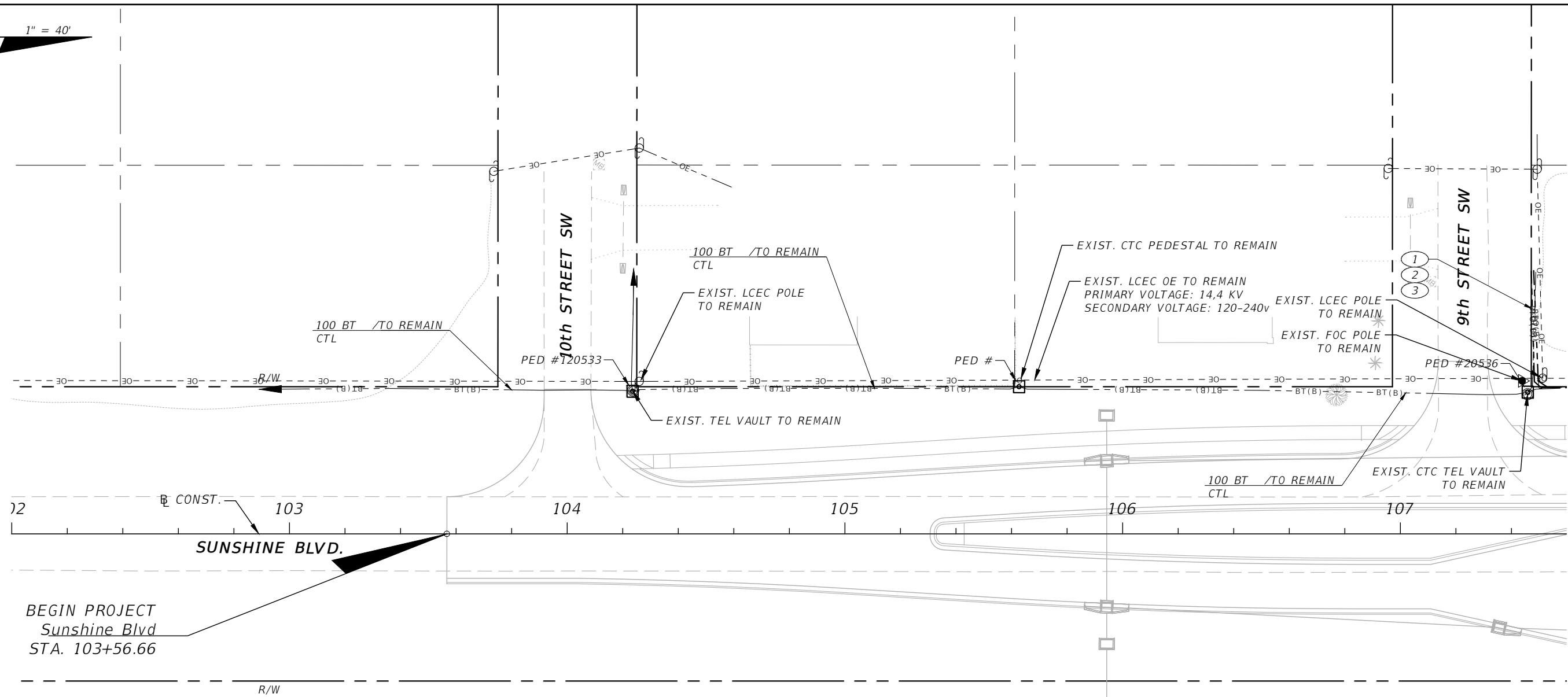
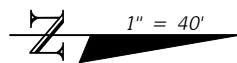


**8th St SW (EAST OF SUNSHINE BLVD.)**  
**TRAFFIC CONTROL PHASE II**  
 NTS



**8th St SW (EAST OF SUNSHINE BLVD.)**  
**TRAFFIC CONTROL PHASE I**  
 NTS

REVISIONS				DANIEL M. CRAIG, P.E. P.E. LICENSE NUMBER 38590 DAVID DOUGLAS ASSOCIATES, INC. 1821 VICTORIA AVE FORT MYERS, FLORIDA 33901 CERTIFICATE OF AUTHORIZATION 7568	LEE COUNTY DEPARTMENT OF TRANSPORTATION			TRAFFIC CONTROL PLAN TYPICAL SECTIONS	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NAME	COUNTY	LEE COUNTY NO.		39
---	---	---	---		SUNSHINE BLVD.	LEE	CN160311		



- ① = 48 BFO /TO REMAIN CTL
- ② = 1500 BT /TO REMAIN CTL
- ③ = 50 BT /TO REMAIN CTL

PROJECT NOTES  
=====

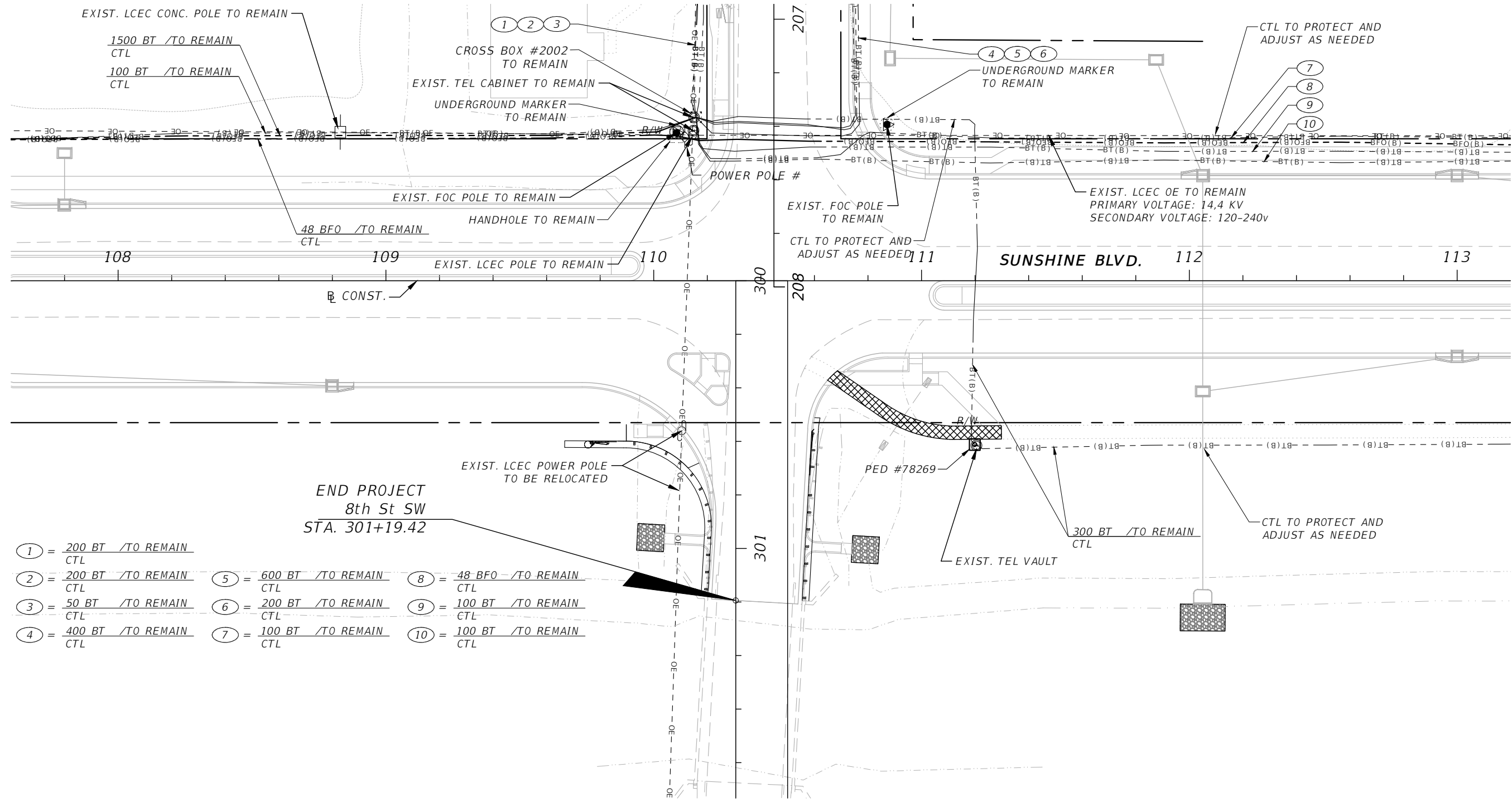
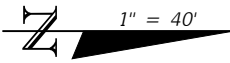
1. THE LOCATION(S) OF THE UTILITIES SHOWN IN THE PLANS (INCLUDING THOSE DESIGNATED Vv, Vh, AND Vvh) ARE BASED ON LIMITED INVESTIGATION TECHNIQUES AND SHOULD BE CONSIDERED APPROXIMATE ONLY. THE VERIFIED LOCATIONS/ELEVATIONS APPLY ONLY AT THE POINTS SHOWN. INTERPOLATIONS BETWEEN THESE POINTS HAVE NOT BEEN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

COMPANY	CENTURLINK (CTL)	CONTACT	JIM NOTTINGHAM	TELEPHONE NUMBERS	239-336-2035
	LCEC		KEITH LANMAN		239-656-2413

REVISIONS				DANIEL M. CRAIG, P.E. P.E. LICENSE NUMBER 38590 DAVID DOUGLAS ASSOCIATES, INC. 1821 VICTORIA AVE FORT MYERS, FLORIDA 33901 CERTIFICATE OF AUTHORIZATION 7568	<b>LEE COUNTY</b> <b>DEPARTMENT OF TRANSPORTATION</b>			<b>UTILITY ADJUSTMENTS</b>	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NAME	COUNTY	LEE COUNTY NO.		40
					SUNSHINE BLVD.	LEE	CN160311		

100% Plans Submittal

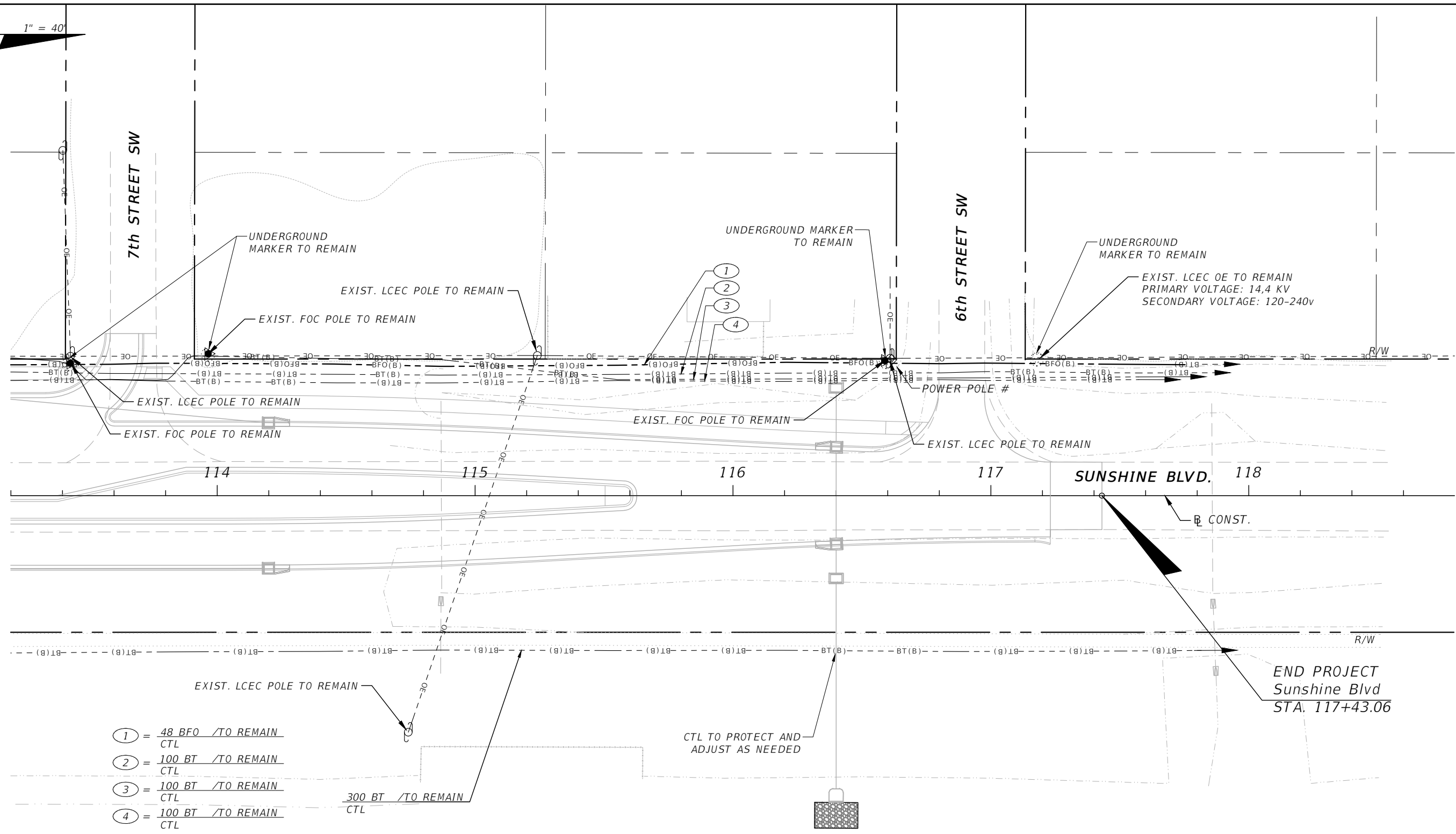
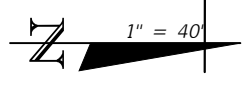




- ① = 200 BT /TO REMAIN CTL
- ② = 200 BT /TO REMAIN CTL
- ③ = 50 BT /TO REMAIN CTL
- ④ = 400 BT /TO REMAIN CTL
- ⑤ = 600 BT /TO REMAIN CTL
- ⑥ = 200 BT /TO REMAIN CTL
- ⑦ = 100 BT /TO REMAIN CTL
- ⑧ = 48 BFO /TO REMAIN CTL
- ⑨ = 100 BT /TO REMAIN CTL
- ⑩ = 100 BT /TO REMAIN CTL

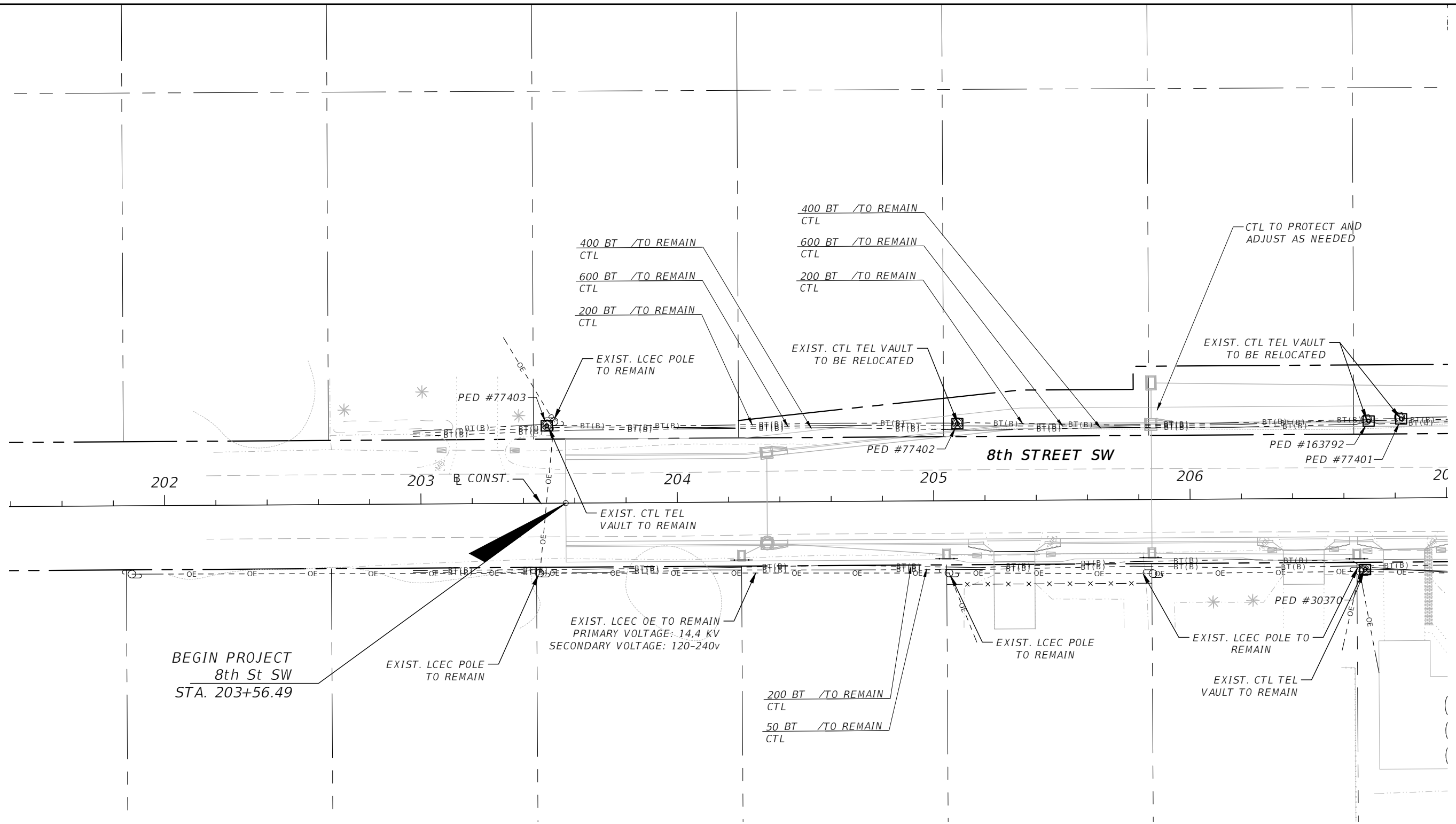
REVISIONS				DANIEL M. CRAIG, P.E. P.E. LICENSE NUMBER 38590 DAVID DOUGLAS ASSOCIATES, INC. 1821 VICTORIA AVE FORT MYERS, FLORIDA 33901 CERTIFICATE OF AUTHORIZATION 7568	<b>LEE COUNTY</b> <b>DEPARTMENT OF TRANSPORTATION</b>			<b>UTILITY ADJUSTMENTS</b>	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NAME	COUNTY	LEE COUNTY NO.		41
					SUNSHINE BLVD.	LEE	CN160311		

100% Plans Submittal



REVISIONS				DANIEL M. CRAIG, P.E. P.E. LICENSE NUMBER 38590 DAVID DOUGLAS ASSOCIATES, INC. 1821 VICTORIA AVE FORT MYERS, FLORIDA 33901 CERTIFICATE OF AUTHORIZATION 7568	<b>LEE COUNTY</b> <b>DEPARTMENT OF TRANSPORTATION</b>			<b>UTILITY ADJUSTMENTS</b>	SHEET NO.  42
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NAME	COUNTY	LEE COUNTY NO.		
---	---	---	---	SUNSHINE BLVD.	LEE	CN160311			

100% Plans Submittal



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DANIEL M. CRAIG, P.E.  
 P.E. LICENSE NUMBER 38590  
 DAVID DOUGLAS ASSOCIATES, INC.  
 1821 VICTORIA AVE  
 FORT MYERS, FLORIDA 33901  
 CERTIFICATE OF AUTHORIZATION 7568

<b>LEE COUNTY DEPARTMENT OF TRANSPORTATION</b>		
ROAD NAME	COUNTY	LEE COUNTY NO.
SUNSHINE BLVD.	LEE	CN160311

**UTILITY ADJUSTMENTS**

SHEET NO.  
43

100% Plans Submittal

*LEE COUNTY  
DEPARTMENT OF TRANSPORTATION*

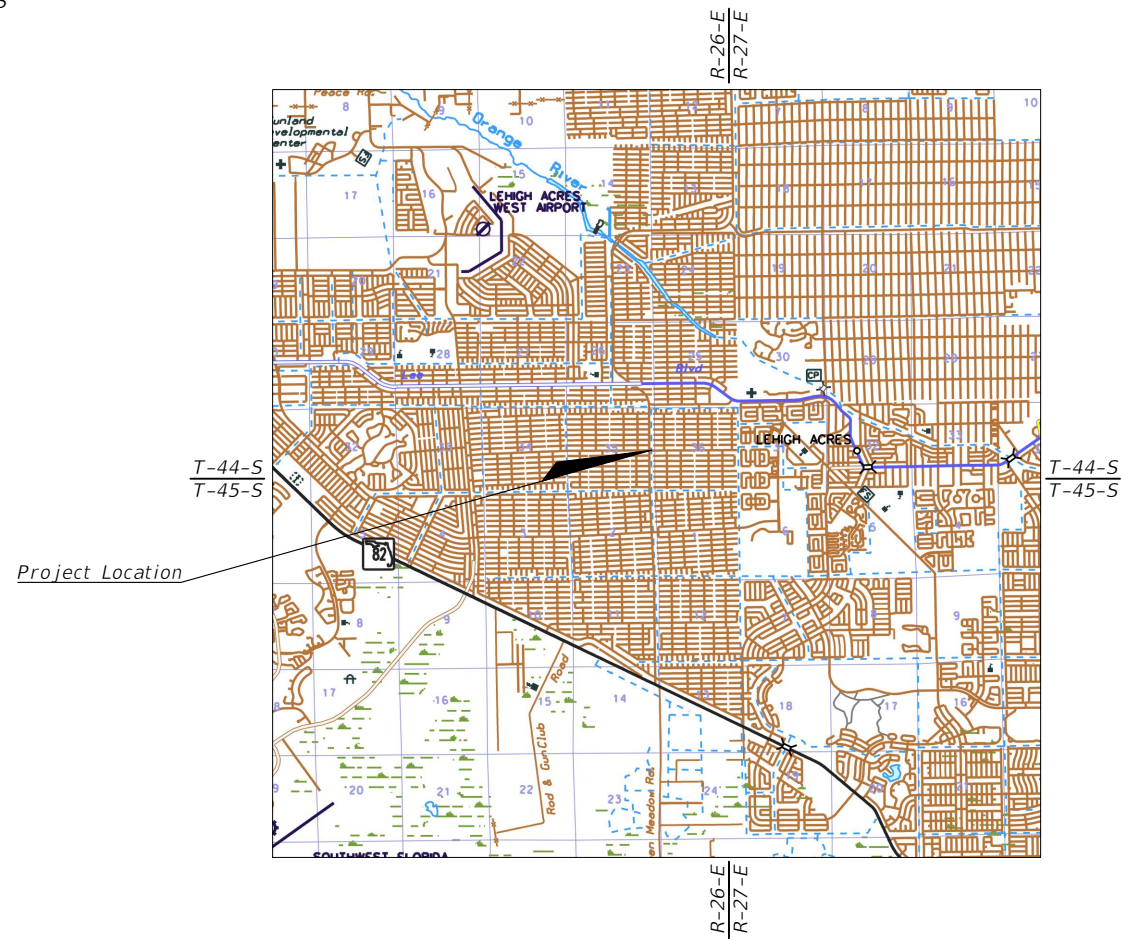
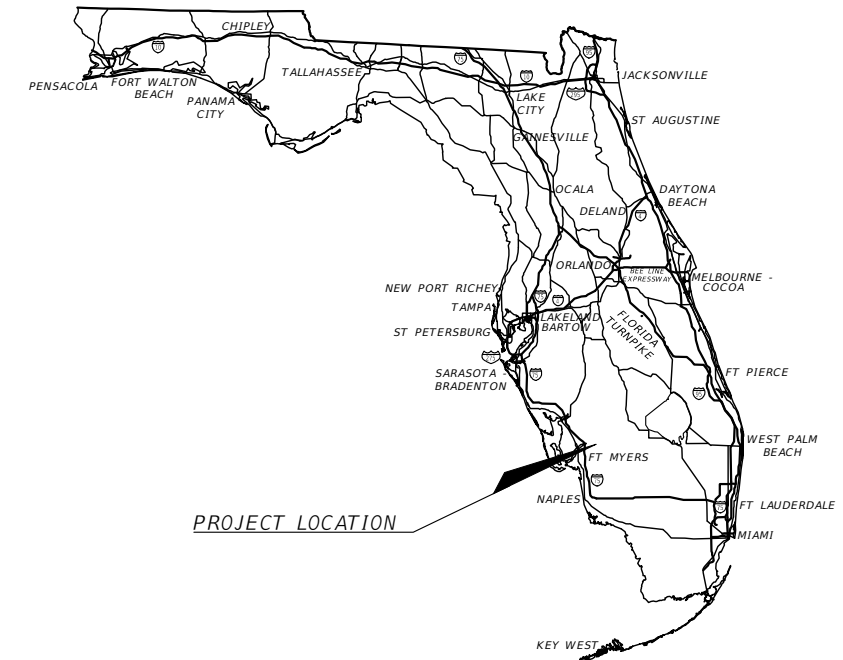
*CONTRACT PLANS*

LEE COUNTY

*SUNSHINE BLVD & 8TH STREET SW  
INTERSECTION  
SIGNING AND PAVEMENT MARKING PLANS*

INDEX OF SIGNING AND PAVEMENT MARKING PLANS

SHEET NO.	SHEET DESCRIPTION
1	KEY SHEET
2	TABULATION OF QUANTITIES
3	GENERAL NOTES AND PAY ITEM NOTES
4 - 7	SIGNING AND PAVEMENT MARKING PLANS



GOVERNING STANDARD PLANS:  
Florida Department of Transportation, FY2018-19 Standard plans for Road and Bridge Construction and applicable Interim Revisions (Irs).

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

APPLICABLE IRs: IR536-001-01, IR521-001-01

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

GOVERNING STANDARD SPECIFICATIONS:  
Florida Department of Transportation, July, 2018 Standard Specifications for Road and Bridge Construction at the following website:  
<http://www.fdot.gov/programmanagement/Implemented/SpecBooks>

SIGNING AND PAVEMENT MARKING PLANS  
ENGINEER OF RECORD:

DANIEL M. CRAIG, P.E.  
P.E. NO.: 38590  
DAVID DOUGLAS ASSOCIATES, INC.  
1821 VICTORIA AVE  
FORT MYERS, FL 33901  
CERTIFICATE OF AUTHORIZATION NO.: 7568

LCDOT PROJECT MANAGER:  
ALEJANDRO SLAIBE, P.E.

LEE COUNTY SOLICITATION NO.	FISCAL YEAR	SHEET NO.
CN160311	18	S-1

100% Plans Submittal

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

**TABULATION OF QUANTITIES**

PAY ITEM NO.	DESCRIPTION	UNIT	SHEET NUMBERS																SUBTOTALS	TOTALS
			S-4		S-5		S-6		S-7		PLAN		PLAN		PLAN		PLAN			
			PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL		
700-1-11	SINGLE POST SIGN, F&I, GROUND MOUNT, <=12SF	AS	3		4		4		1										12	12
700-1-50	SINGLE POST SIGN, RELOCATE	AS			1														1	1
700-1-60	SINGLE POST SIGN, REMOVE	AS	4		2		5		2										13	13
705-11-3	DELINEATOR, FLEXIBLE, HIGH VISIBILITY MEDIAN	EA	1				1												2	2
706-3	RETRO-REFLECTIVE PAVEMENT MARKERS	EA																	237	237
	RETRO-REFLECTIVE PAVEMENT MARKERS (W/R)	EA			76		1		12										89	89
	RETRO-REFLECTIVE PAVEMENT MARKERS (Y/Y)	EA	42		4		34		50										130	130
	RETRO-REFLECTIVE PAVEMENT MARKERS (MD/W)	EA			10														10	10
	RETRO-REFLECTIVE PAVEMENT MARKERS (MD/Y)	EA			8														8	8
710-11-209	PAINT, STD., YELLOW, ISLAND NOSE	SF	8				8												16	16
710-90	PAINTED PAVEMENT MARKINGS, FINAL SURFACE	LS																		
*	PAINTED PAVEMENT MARKINGS, STD. WHITE, SOLID, CROSSWALK/RA, 12"	LF	58		444		30												532	532
*	PAINTED PAVEMENT MARKINGS, STD., WHITE, SOLID, DIAG./CHEVRONS, 18"	LF	28																28	28
*	PAINTED PAVEMENT MARKINGS, STD. WHITE, SOLID, STOP LINE 24"	LF	25		127		22												174	174
*	PAINTED PAVEMENT MARKINGS, STD., WHITE, GUIDE LINE, 6" (2/4)	GM	0.034		0.014		0.015												0.063	0.063
*	PAINTED PAVEMENT MARKINGS, STD., ARROWS	EA																	18	18
*	PAINTED PAVEMENT MARKINGS, STD., ARROWS (LEFT)	EA			7				2										9	
*	PAINTED PAVEMENT MARKINGS, STD., ARROWS (RIGHT)	EA			6														6	
*	PAINTED PAVEMENT MARKINGS, STD., ARROWS (RIGHT/THRU)	EA			1				2										3	
*	PAINTED PAVEMENT MARKINGS, STD., YELLOW, SOLID, DIAG./CHEVRONS, 18"	LF	54		23		76		63										216	216
*	PAINTED PAVEMENT MARKINGS, STD., YELLOW, 2-4 DOTTED GUIDE LINE, 6"	GM	0.047		0.097		0.051												0.195	0.195
*	PAINTED PAVEMENT MARKINGS, STD. - OTHER, WHITE, SOLID, 6"	GM	0.131		0.347		0.135		0.153										0.766	0.766
*	PAINTED PAVEMENT MARKINGS, STD. - WHITE, SOLID, 8"	GM			0.028														0.028	0.028
*	PAINTED PAVEMENT MARKINGS, STD. - OTHER, YELLOW, SOLID, 6"	GM	0.164		0.232		0.187		0.182										0.765	0.765
711-11-123	THERMO., STD. WHITE, SOLID, CROSSWALK/RA, 12"	LF	58		444		30												532	532
711-11-124	THERMO., STD., WHITE, SOLID, DIAG./CHEVRONS, 18"	LF	28																28	28
711-11-125	THERMO., STD. WHITE, SOLID, STOP LINE 24"	LF	25		105		22												152	152
711-11-141	THERMO., STD., WHITE, GUIDE LINE, 6" (2/4)	GM	0.034		0.014		0.015												0.063	0.063
711-11-170	THERMO., STD., ARROWS	EA																	18	18
	THERMO., STD., ARROWS (LEFT)	EA			7				2										9	
	THERMO., STD., ARROWS (RIGHT)	EA			6														6	
	THERMO., STD., ARROWS (RIGHT/THRU)	EA			1				2										3	
711-11-224	THERMO., STD., YELLOW, SOLID, DIAG./CHEVRONS, 18"	LF	54		23		76		63										216	216
711-11-241	THERMO., STD., YELLOW, 2-4 DOTTED GUIDE LINE, 6"	GM	0.047		0.097		0.051												0.195	0.195
711-16-101	THERMO., STD. - OTHER, WHITE, SOLID, 6"	GM	0.131		0.347		0.135		0.153										0.766	0.766
711-16-102	THERMO., STD. - OTHER, WHITE, SOLID, 8"	GM			0.028														0.028	0.028
711-16-201	THERMO., STD. - OTHER, YELLOW, SOLID, 6"	GM	0.164		0.232		0.187		0.182										0.765	0.765

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

REVISIONS				DANIEL M. CRAIG, P.E. P.E. LICENSE NUMBER 38590 DAVID DOUGLAS ASSOCIATES, INC. 1821 VICTORIA AVE FORT MYERS, FLORIDA 33901 CERTIFICATE OF AUTHORIZATION 7568	LEE COUNTY DEPARTMENT OF TRANSPORTATION			SHEET NO.  S-2
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NAME	COUNTY	LEE COUNTY NO.	
---	---				SUNSHINE BLVD.	LEE	CN160311	

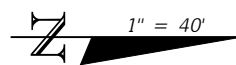
**TABULATION OF QUANTITIES**

GENERAL SIGNING AND PAVEMENT MARKING NOTES:

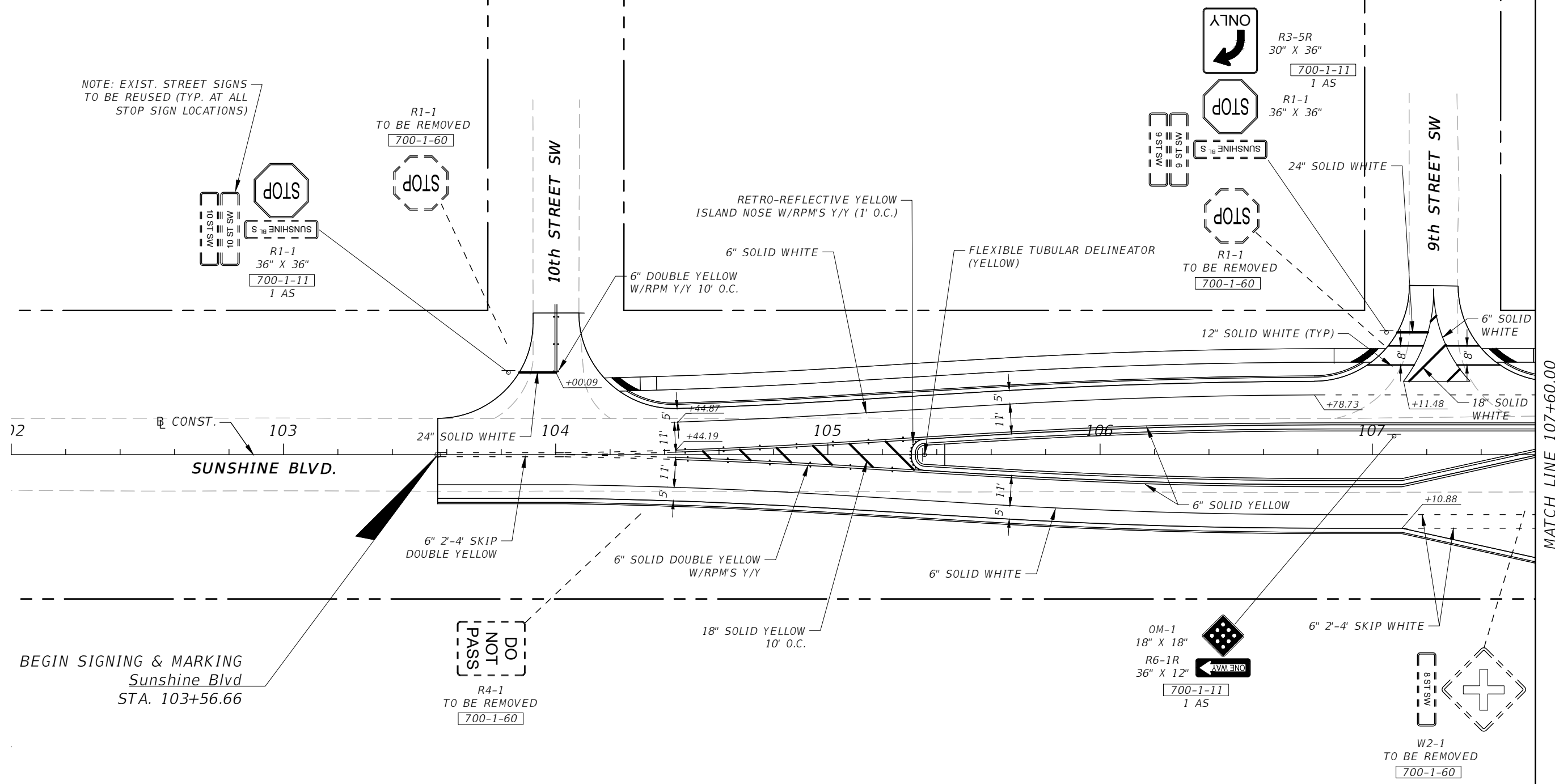
1. EXISTING SIGNS SHALL BE REMOVED UNLESS OTHERWISE NOTED ON PLANS.
2. ALL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC.
3. ALL EXISTING PAVEMENT MARKINGS THAT ARE IN CONFLICT WITH THE PROPOSED MARKINGS SHALL BE REMOVED BY AN FDOT ACCEPTABLE METHOD.
4. REFER TO FDOT STANDARD PLANS FOR ADDITIONAL DETAILS.

100% Plans Submittal

R E V I S I O N S				DANIEL M. CRAIG, P.E. P.E. LICENSE NUMBER 38590 DAVID DOUGLAS ASSOCIATES, INC. 1821 VICTORIA AVE FORT MYERS, FLORIDA 33901 CERTIFICATE OF AUTHORIZATION 7568	<b>LEE COUNTY</b> <b>DEPARTMENT OF TRANSPORTATION</b>			<b>GENERAL NOTES AND</b> <b>PAY ITEM NOTES</b>	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NAME	COUNTY	LEE COUNTY NO.		S-3
----	----	----	----		SUNSHINE BLVD.	LEE	CN160311		



NOTE: EXIST. STREET SIGNS TO BE REUSED (TYP. AT ALL STOP SIGN LOCATIONS)

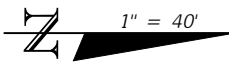


BEGIN SIGNING & MARKING  
Sunshine Blvd  
STA. 103+56.66

MATCH LINE 107+60.00

REVISIONS				DANIEL M. CRAIG, P.E. P.E. LICENSE NUMBER 38590 DAVID DOUGLAS ASSOCIATES, INC. 1821 VICTORIA AVE FORT MYERS, FLORIDA 33901 CERTIFICATE OF AUTHORIZATION 7568	LEE COUNTY DEPARTMENT OF TRANSPORTATION			SIGNING AND PAVEMENT MARKING PLAN	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NAME	COUNTY	LEE COUNTY NO.		
---	---	---	---		SUNSHINE BLVD.	LEE	CN160311		S-4

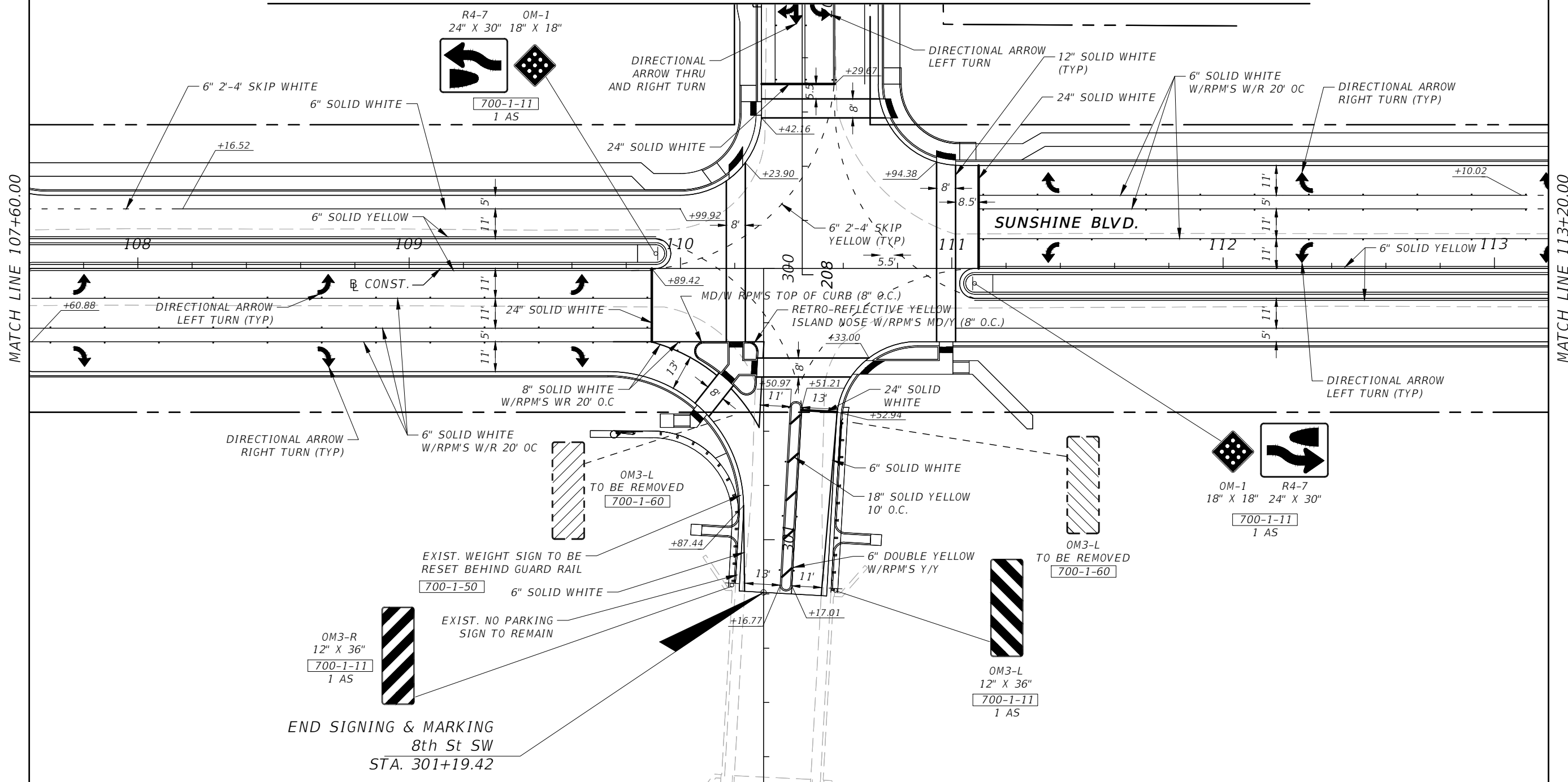
100% Plans Submittal



MATCH LINE 207+00.00

MATCH LINE 107+60.00

MATCH LINE 113+20.00



END SIGNING & MARKING  
8th St SW  
STA. 301+19.42

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DANIEL M. CRAIG, P.E.  
P.E. LICENSE NUMBER 38590  
DAVID DOUGLAS ASSOCIATES, INC.  
1821 VICTORIA AVE  
FORT MYERS, FLORIDA 33901  
CERTIFICATE OF AUTHORIZATION 7568

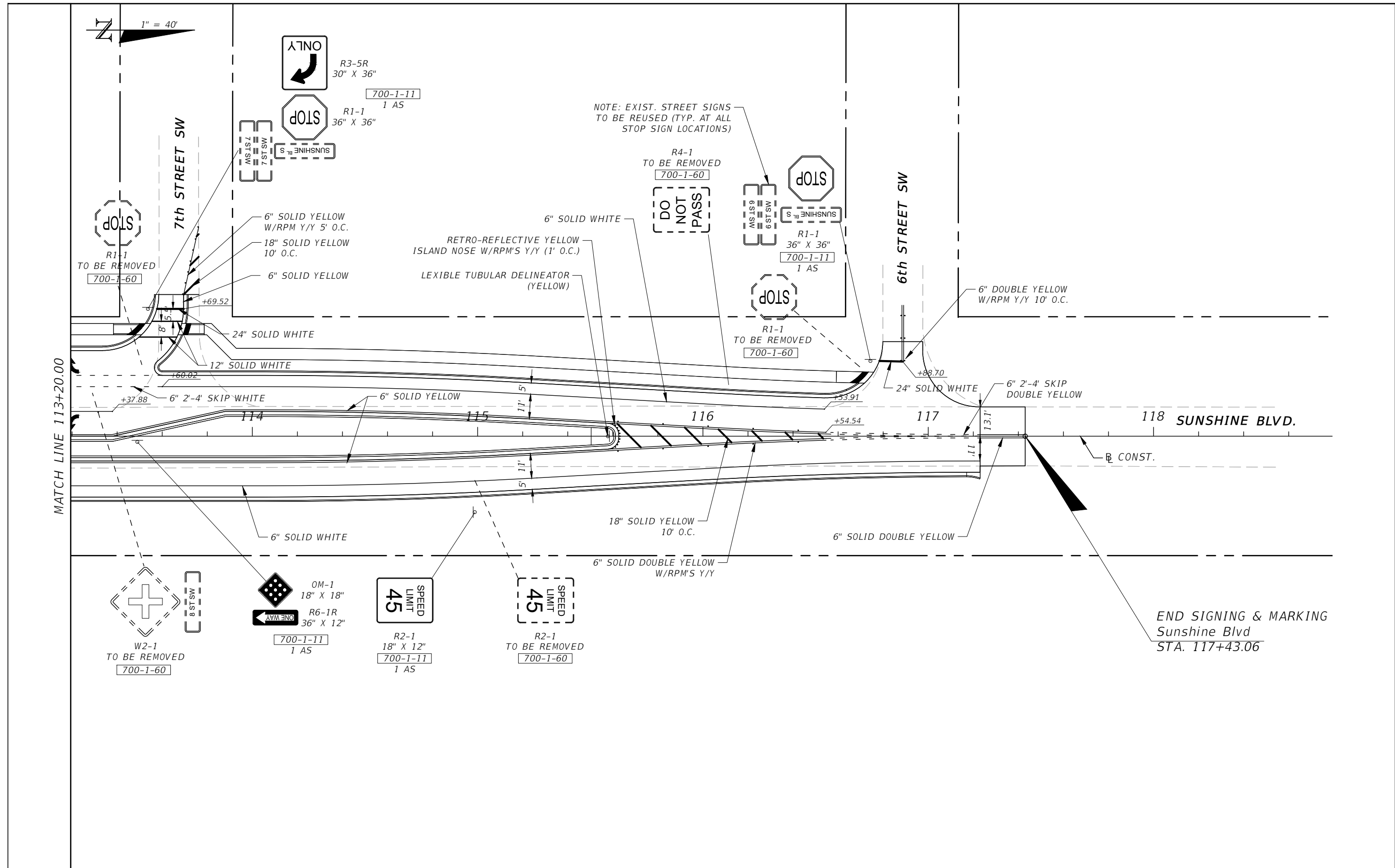
<b>LEE COUNTY</b> <b>DEPARTMENT OF TRANSPORTATION</b>		
ROAD NAME	COUNTY	LEE COUNTY NO.
SUNSHINE BLVD.	LEE	CN160311

***SIGNING AND PAVEMENT  
MARKING PLAN***

SHEET NO.  
S-5

100% Plans Submittal





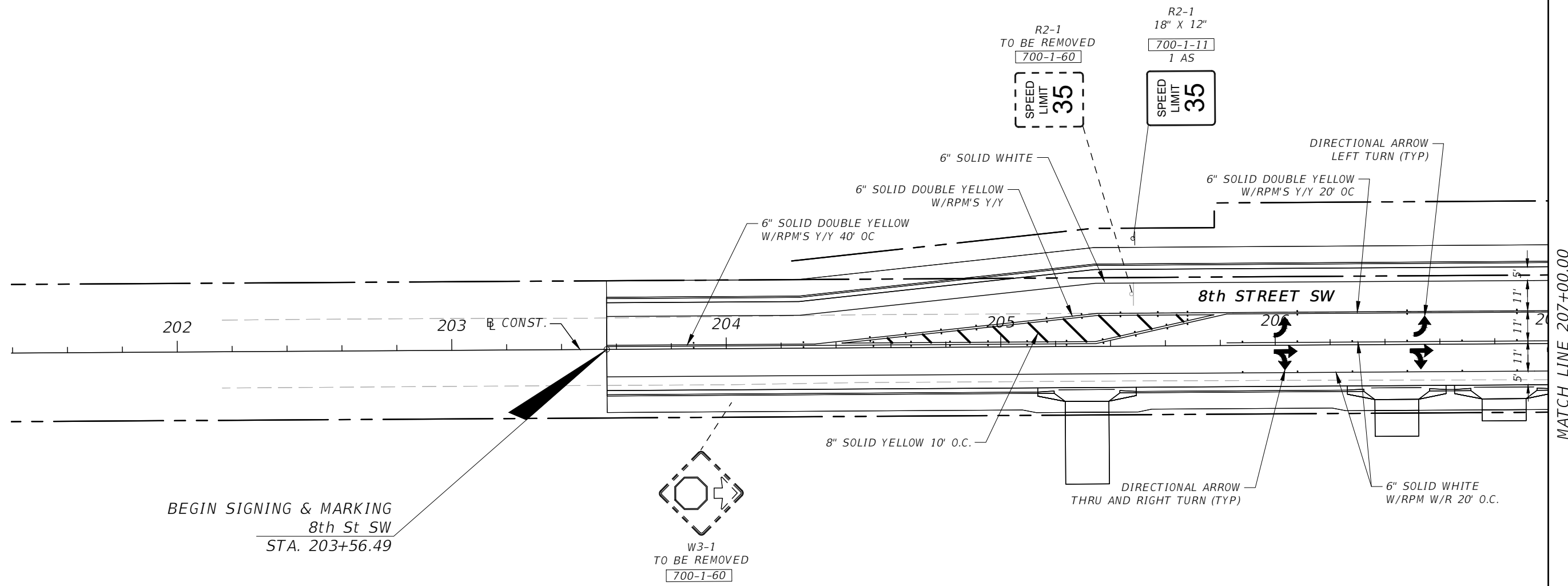
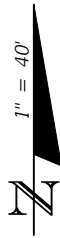
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DANIEL M. CRAIG, P.E.  
P.E. LICENSE NUMBER 38590  
DAVID DOUGLAS ASSOCIATES, INC.  
1821 VICTORIA AVE  
FORT MYERS, FLORIDA 33901  
CERTIFICATE OF AUTHORIZATION 7568

<b>LEE COUNTY</b> DEPARTMENT OF TRANSPORTATION		
ROAD NAME	COUNTY	LEE COUNTY NO.
SUNSHINE BLVD.	LEE	CN160311

***SIGNING AND PAVEMENT  
MARKING PLAN***

SHEET NO.
S-6



BEGIN SIGNING & MARKING  
8th St SW  
STA. 203+56.49

W3-1  
TO BE REMOVED  
700-1-60

R2-1  
TO BE REMOVED  
700-1-60

R2-1  
18" X 12"  
700-1-11  
1 AS

MATCH LINE 207+00.00

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DANIEL M. CRAIG, P.E.  
P.E. LICENSE NUMBER 38590  
DAVID DOUGLAS ASSOCIATES, INC.  
1821 VICTORIA AVE  
FORT MYERS, FLORIDA 33901  
CERTIFICATE OF AUTHORIZATION 7568

<b>LEE COUNTY</b> <b>DEPARTMENT OF TRANSPORTATION</b>		
ROAD NAME	COUNTY	LEE COUNTY NO.
SUNSHINE BLVD.	LEE	CN160311

**SIGNING AND PAVEMENT  
MARKING PLAN**

SHEET NO.  
S-7

100% Plans Submittal

*LEE COUNTY  
DEPARTMENT OF TRANSPORTATION*

*CONTRACT PLANS*

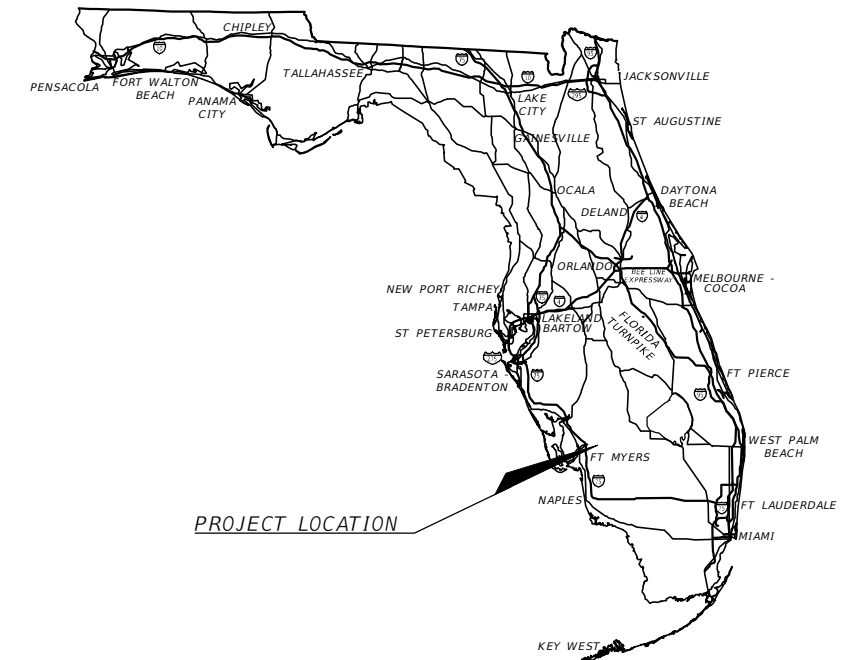
*LEE COUNTY*

*SUNSHINE BLVD & 8TH STREET SW  
INTERSECTION*

*SIGNALIZATION PLANS*

*INDEX OF SIGNALIZATION PLANS*

<i>SHEET NO.</i>	<i>SHEET DESCRIPTION</i>
<i>T-1</i>	<i>KEY SHEET</i>
<i>T-2</i>	<i>SIGNATURE SHEET</i>
<i>T-3</i>	<i>TABULATION OF QUANTITIES</i>
<i>T-4 TO T-6</i>	<i>GENERAL NOTES</i>
<i>T-7</i>	<i>SIGNALIZATION PLAN</i>
<i>T-8</i>	<i>CONCRETE STRAIN POLE SCHEDULE</i>
<i>T-9</i>	<i>GUIDE SIGN WORK SHEET</i>
<i>T-10</i>	<i>REPORT OF TEST BORINGS</i>

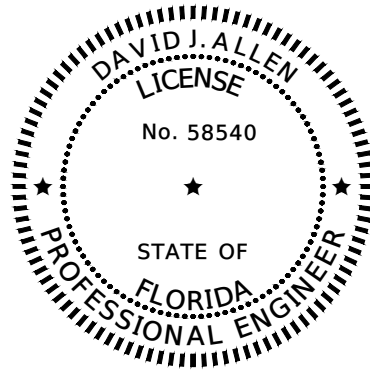


*SIGNALIZATION PLANS  
ENGINEER OF RECORD:*

*DAVID J. ALLEN, P.E.  
P.E. NO.: 58540  
CARDNO  
3905 CRESCENT PARK DRIVE  
RIVERVIEW, FLORIDA 33578  
CERTIFICATE OF AUTHORIZATION NO.: 29915*

*LCDOT PROJECT MANAGER:  
ALEJANDRO SLAIBE, P.E.*

<i>LEE COUNTY SOLICITATION NO.</i>	<i>FISCAL YEAR</i>	<i>SHEET NO.</i>
<i>CN160311</i>	<i>19</i>	<i>T-1</i>



THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY:

ON THE DATE ADJACENT TO THE SEAL

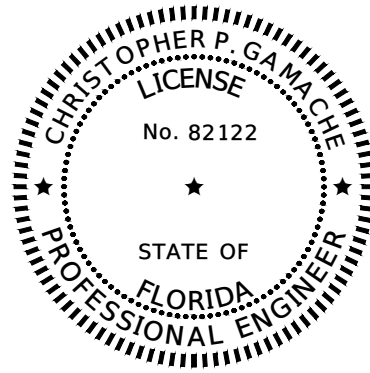
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CARDNO  
3905 CRESCENT PARK DRIVE  
RIVERVIEW, FL 33578  
CERTIFICATE OF AUTHORIZATION: 29915  
DAVID J. ALLEN, P.E. NO. 58540

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

**INDEX OF SIGNALIZATION**

SHEET NO.	SHEET DESCRIPTION
T-1	KEY SHEET
T-2	SIGNATURE SHEET
T-3	TABULATION OF QUANTITIES
T-4 TO T-6	GENERAL NOTES
T-7	SIGNALIZATION PLAN
T-9	GUIDE SIGN WORK SHEET



THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY:

ON THE DATE ADJACENT TO THE SEAL

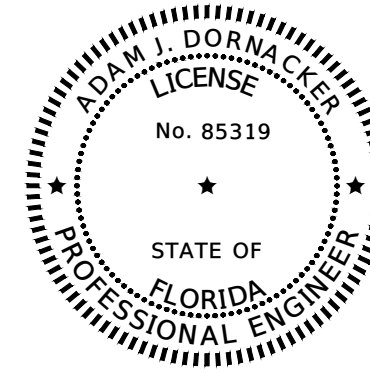
PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

CARDNO  
380 PARK PLACE BOULEVARD, SUITE 300  
CLEARWATER, FL 33759  
PHONE NUMBER: (727) 531-3505  
CHRISTOPHER P. GAMACHE, P.E. NO. 82122

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

**INDEX OF SIGNALIZATION**

SHEET NO.	SHEET DESCRIPTION
T-2	SIGNATURE SHEET
T-8	CONCRETE STRAIN POLE SCHEDULE



THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY:

ON THE DATE ADJACENT TO THE SEAL

PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

GFA INTERNATIONAL  
201 WALDO AVE NORTH  
LEHIGH ACRES, FL 33971  
CERTIFICATE OF AUTHORIZATION NO. 4930  
ADAM J. DORNACKER, P.E. NO. 85319

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

**INDEX OF SIGNALIZATION**

SHEET NO.	SHEET DESCRIPTION
T-2	SIGNATURE SHEET
T-10	REPORT OF TEST BORINGS

REVISIONS				DAVID J. ALLEN, P.E. P.E. LICENSE NUMBER 58540 CARDNO 3905 CRESCENT PARK DRIVE RIVERVIEW, FLORIDA 33578 CERTIFICATE OF AUTHORIZATION 29915	LEE COUNTY DEPARTMENT OF TRANSPORTATION			SHEET NO.  <b>SIGNATURE SHEET</b>  T-2
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NAME	COUNTY	LEE COUNTY NO.	
					SUNSHINE BLVD.	LEE	CN160311	

**TABULATION OF QUANTITIES**

PAY ITEM NO.	DESCRIPTION	UNIT	SHEET NUMBERS														TOTAL THIS SHEET		GRAND TOTAL	
			T-7														PLAN	FINAL	PLAN	FINAL
			PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL						
630-2-11	CONDUIT, FURNISH & INSTALL, OPEN TRENCH	LF	170														170		170	
630-2-12	CONDUIT, FURNISH & INSTALL, DIRECTIONAL BORE	LF	310														310		310	
632-7-1	SIGNAL CABLE- NEW OR RECONSTRUCTED INTERSECTION, FURNISH & INSTALL	PI	1														1		1	
634-4-153	SPAN WIRE ASSEMBLY, F&I, TWO POINT, BOX OR DROP BOX	PI	1														1		1	
635-2-11	PULL & SPLICE BOX, F&I, 17" x 30" COVER SIZE	EA	18														18		18	
639-1-112	ELECTRICAL POWER SERVICE, F&I, OVERHEAD METER PURCHASED BY CONTRACTOR FROM POWER COMPANY	AS	1														1		1	
639-2-1	ELECTRICAL SERVICE WIRE, FURNISH & INSTALL	LF	20														20		20	
641-2-18	PRESTRESSED CONCRETE POLE, F&I, TYPE P-VIII	EA	4														4		4	
646-1-11	ALUMINUM SIGNALS POLE, PEDESTAL	EA	8														8		8	
650-1-14	VEHICULAR TRAFFIC SIGNAL, FURNISH & INSTALL ALUMINUM, 3 SECTION, 1 WAY	AS	8														8		8	
650-1-16	VEHICULAR TRAFFIC SIGNAL, FURNISH & INSTALL ALUMINUM, 4 SECTION, 1 WAY	AS	2														2		2	
653-1-11	PEDESTRIAN SIGNAL, FURNISH & INSTALL LED COUNTDOWN, 1 WAY	AS	8														8		8	
660-3-11	VEHICLE DETECTION SYSTEM- MICROWAVE, FURNISH & INSTALL CABINET EQUIPMENT	EA	1														1		1	
660-3-12	VEHICLE DETECTION SYSTEM- MICROWAVE, FURNISH & INSTALL, ABOVE GROUND EQUIPMENT	EA	2														2		2	
660-4-11	VEHICLE DETECTION SYSTEM- VIDEO, FURNISH & INSTALL CABINET EQUIPMENT	EA	1														1		1	
660-4-12	VEHICLE DETECTION SYSTEM- VIDEO, FURNISH & INSTALL ABOVE GROUND EQUIPMENT	EA	4														4		4	
665-1-12	PEDESTRIAN DETECTOR, FURNISH & INSTALL, ACCESSIBLE	EA	8														8		8	
670-5-110	TRAFFIC CONTROLLER ASSEMBLY, F&I, NEMA	AS	1														1		1	
685-1-13	UNINTERRUPTIBLE POWER SUPPLY, FURNISH AND INSTALL, LINE INTERACTIVE WITH CABINET	EA	1														1		1	
700-3-201	SIGN PANEL, FURNISH & INSTALL OVERHEAD MOUNT, UP TO 12 SF	EA	2														2		2	
700-3-202	SIGN PANEL, FURNISH & INSTALL OVERHEAD MOUNT, 12-20 SF	EA	4														4		4	
715-1-12	LIGHTING CONDUCTORS, F&I, INSULATED, NO. 8 - 6	LF	1374														1374		1374	
715-5-31	LUMINAIRE & BRACKET ARM - ALUMINUM, FURNISH & INSTALL NEW LUMINAIRE AND ARM ON NEW/EXISTING POLE	EA	4														4		4	

<b>REVISIONS</b>				DAVID J. ALLEN, P.E. P.E. LICENSE NUMBER 58540 CARDNO 3905 CRESCENT PARK DRIVE RIVERVIEW, FLORIDA 33578 CERTIFICATE OF AUTHORIZATION 29915	<b>LEE COUNTY</b>			<b>TABULATION OF QUANTITIES</b>	SHEET NO. <b>T-3</b>
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NAME	COUNTY	LEE COUNTY NO.		
					SUNSHINE BLVD.	LEE	CN160311		

100% Plans Submittal

GENERAL NOTES

1. ADHERE TO REQUIREMENTS IN "LEE COUNTY DEPARTMENT OF TRANSPORTATION PLAN SPECIFICATIONS FOR SIGNAL & STREET LIGHTING", DATE REVISED APRIL 15, 2014. CONTACT LEE COUNTY DEPARTMENT OF TRANSPORTATION (LCDOT) FOR ANY QUESTIONS REGARDING EQUIPMENT OR INSTALLATION REQUIREMENTS.
2. CABINET/CONTROLLER/VIDEO DETECTION PREPARATION:  
LEE COUNTY SIGNALS WILL ASSIST THE CONTRACTOR IN THE SETUP OF NEW SIGNAL CABINET/CONTROLLERS/CAMERAS WHEN THE FOLLOWING CONDITIONS ARE MET: DELIVERY OF EQUIPMENT TO 5650 ENTERPRISE PARKWAY BY CONTRACTOR OR SHIPPER. SEND A QUALIFIED TECHNICIAN TO THE SIGNAL SHOP TO SET UP THE EQUIPMENT WITH THE AID OF A SENIOR SIGNAL TECH, GIVING MINIMUM OF 48 HOURS NOTICE. AFTER SET UP, ARRANGE TO PICK UP THE EQUIPMENT WITHIN ONE WEEK. AT TIME OF REMOVAL FROM THE LEE COUNTY SIGNAL SHOP, THE EQUIPMENT SHALL BE SIGNED OUT BY THE CONTRACTOR REPRESENTATIVE AS COMPLETE. LEE COUNTY WILL NOT STORE CONTRACTOR EQUIPMENT. UNDER THESE CONDITIONS, LEE COUNTY SIGNALS WILL ASSIST THE CONTRACTOR ON "TURN ON" DAY IN THE FIELD. SHOULD THE CONTRACTOR ELECT TO SET UP, BURN IN, AND TEST THE EQUIPMENT WITHOUT LEE COUNTY ASSISTANCE, A MANUFACTURER'S REPRESENTATIVE SHALL BE ONSITE, AT CONTRACTOR'S EXPENSE, ON THE DAY OF TURN ON TO ASSIST THE CONTRACTOR AND TO VERIFY PROPER OPERATION.
3. SPECIAL NOTE REGARDING NEW CONTROLLERS:  
LEE COUNTY RESERVES THE RIGHT TO SUBSTITUTE DIFFERENT CONTROL EQUIPMENT IN THE EVENT THAT DELIVERED EQUIPMENT IS NOT COMPATIBLE WITH THE EXISTING SYSTEM. SINCE SYSTEM UPGRADES MAY BE BEHIND CONTROLLER TECHNOLOGY, AS THE MAINTAINING AGENCY, LEE COUNTY SIGNALS WILL DECIDE EQUIPMENT PLACEMENT AND TIMING AND MAY PROVIDE AN ALTERNATE CONTROLLER TEMPORARILY UNTIL FUTURE UPGRADES ARE MADE. IF THERE IS A COST DIFFERENTIAL, PAYMENT WILL BE MADE TO THE CONTRACTOR PER PLAN QUANTITY AND SPECIFICATION.
4. INSPECTIONS:  
IT IS REQUIRED TO HAVE AN AUTHORIZED REPRESENTATIVE AND THE NECESSARY EQUIPMENT TO COMPLETE THE INSPECTIONS ONSITE AT ALL SIGNAL AND LIGHTING INSPECTIONS. FAILURE TO HAVE A REPRESENTATIVE ONSITE WILL RESULT IN THE CANCELLATION OF THE INSPECTION AND THE WITHHOLDING OF FINAL PAYMENT. AUTHORIZED REPRESENTATIVE IS A PERSON WITH THE KNOWLEDGE AND ABILITY TO MAKE CORRECTIONS AS NEEDED. THIS IS A REQUIREMENT AND IS NECESSARY TO ELIMINATE COSTLY RE-INSPECTIONS AND TO SPEED UP THE CLOSE OUT OF THE PROJECT.
5. GROUNDING:  
EACH SIGNAL POLE SHALL HAVE A MINIMUM OF TWENTY (20) FEET OF GROUND ROD DRIVEN. GROUND RODS MUST READ LESS THAN 15 OHMS WHEN TESTED AFTER INSTALLATION.  
EACH PEDESTRIAN POLE SHALL HAVE MINIMUM OF TWENTY (20) FEET OF GROUND ROD DRIVEN. GROUND RODS MUST READ LESS THAN 15 OHMS WHEN TESTED AFTER INSTALLATION.  
  
EACH CABINET SHALL HAVE MINIMUM OF FIFTY (50) FEET OF GROUND ROD DRIVEN. GROUND RODS MUST READ LESS THAN 5 OHMS WHEN TESTED AFTER INSTALLATION. NO GROUND RODS INSTALLED IN CABINET BASE.  
  
EACH ELECTRICAL SERVICE SHALL HAVE MINIMUM OF TWENTY (20) FEET OF GROUND ROD DRIVEN. GROUND RODS MUST READ LESS THAN 15 OHMS WHEN TESTED AFTER INSTALLATION.  
  
ALL GROUND WIRE SHALL BE #6 STRANDED COPPER.  
  
ENSURE THAT ALL GROUNDED ELEMENTS AT AN INTERSECTION ARE BONDED TOGETHER TO FORM AN INTERSECTION GROUNDING NETWORK (620-3.1). SPAN WIRE GROUND BOND AT CONCRETE POLES: USE BI-METAL SPLIT BOLT (CU-AL RATED) TO BOND ALL CABLES TOGETHER. KEEP COPPER WIRE SEPARATED FROM STEEL CABLES ON ONE SIDE OF THE SPLIT BOLT.  
  
ALL SIGNAL POLES, PEDESTRIAN POLES SHALL BE TIED INTO A NETWORK GROUND SYSTEM AND BROUGHT BACK TO THE CABINET.  
  
ALL GROUND RODS SHALL BE INSTALLED IN A PULL BOX. TOP OF GROUND ROD SHALL BE TWO (2) INCHES ABOVE TOP OF ROCK IN PULL BOX, FOR A CONCRETE STRAIN POLE, INSTALL GROUND ROD IN PULL BOX NEXT TO POLE.  
  
GROUND SPARE CONDUCTORS INSIDE CABINET ON CABINET GROUND BAR.  
  
ALL GROUND ROD READINGS SHALL BE VERIFIED BY LEE COUNTY DOT SIGNAL INSPECTOR BEFORE FINAL CONNECTION.  
  
ALL GROUND ROD READINGS SHALL BE NOTED ON A GROUND ROD SHEET. ROUND ROD READINGS SHALL BE RECORDED AT 10 FOOT INTERVALS (620-3.2).

PAY ITEM NOTES

- 630-2-11, 630-2-12:  
SUPPLY A ONE (1) INCH SCHEDULE 40 PVC CONDUIT FROM CABINET BASE TO OUTSIDE OF NEAREST CONCRETE SIGNAL POLE. (FOR TELEPHONE LINE) STUB UP TWO (2) FEET.
- CONDUIT STREET CROSSINGS SHALL BE MINIMUM OF FIVE (5) EACH TWO (2) INCH PVC CONDUITS. PVC CONDUIT SHALL BE SCHEDULE 40 OR 80 APPROVED FOR ELECTRICAL USE (GRAY). NO THIN WALL CONDUIT IS ALLOWED. TWENTY (20) FOOT LENGTHS ON RUNS OVER TWENTY (20) FEET SHALL BE USED.
- CONDUIT RUNS FOR STREET LIGHTING SHALL BE TWO (2) INCH MINIMUM.
- ANY CONDUIT ABOVE GROUND SHALL BE RIGID GALVANIZED STEEL CONDUIT.
- CONDUIT SHALL BE INSTALLED AT A MINIMUM DEPTH OF THIRTY-SIX (36) INCHES.
- ALL ROCKS AND TRASH SHALL BE REMOVED FROM THE TRENCH. BACKFILL SHALL BE CLEAN AND CONTAIN NO ROCKS.
- OBSERVE MAXIMUM NUMBER OF CONDUITS ALLOWED IN A PULL BOX PER NEC. INSTALL PER FDOT STANDARD INDEX.
- CONDUIT TWO (2) INCH AND LARGER SHALL HAVE A THREADED BUSHING INSTALLED AT EACH END, OR A SLIP OVER BUSHING TO PROTECT CABLE.
- BOTH ENDS OF ALL CONDUITS SHALL BE SEALED WITH DUCT SEAL.
- DIRECTIONAL BORE CONDUIT SHALL BE A MINIMUM OF SDR 13.5 AND SHALL BE GRAY IN COLOR. BLACK CONDUIT CAN BE SUBSTITUTED IF APPROVED BY THE LEE COUNTY TRAFFIC ENGINEER. NO OTHER CONDUIT COLOR CAN BE USED UNLESS APPROVED BY LEE COUNTY TRAFFIC ENGINEER.
- ALL MINOR STREET ROAD CROSSINGS SHALL HAVE A MINIMUM OF FOUR (4) TWO (2) INCH PVC CONDUIT. ALL MAJOR ROAD CROSSINGS SHALL HAVE A MINIMUM OF FIVE (5) TWO (2) INCH PVC CONDUIT.
- NO POTHOLES CUT IN PAVEMENT ARE ALLOWED TO LOCATE EXISTING UTILITIES UNLESS APPROVAL IS OBTAINED FROM ENGINEERING SERVICE DIRECTOR.
- ANY BORES THAT FAIL, ARE TO BE REMOVED. IF REMOVAL IS NOT POSSIBLE, ENDS SHALL BE CUT OFF AT A DEPTH OF 36" BELOW GROUND AND THE CONDUIT FILLED WITH GROUT.
- ALL ROAD AND DRIVEWAY CROSSINGS SHALL BE A MINIMUM OF 36" DEEP.
- ALL HOLES CAUSED BY EQUIPMENT SHALL BE BACKFILLED AND GROUND RESTORED.
- IF THE DISTANCE IS TOO FAR TO COMPLETE THE BORE IN ONE ATTEMPT, THEN THE CONTRACTOR SHALL USE "E LOCK" COUPLINGS TO CONNECT THE BORES TOGETHER.
- IF CONTRACTOR IS INSTALLING CONDUIT IN A PULL BOX, RIDGED GALVANIZED 90 DEGREE SWEEPS SHALL BE INSTALLED ON ALL CONDUIT LARGER THAN TWO (2) INCH, AND A THREADED PLASTIC BUSHING SHALL BE INSTALLED ON SWEEP.
- IF CONDUIT IS INSTALLED IN A PULL BOX, OR CABINET, DUCT SEAL SHALL BE USED TO SEAL THE ENDS.
- 632-7-1:  
EACH SIGNAL CABLE SHALL HAVE FOUR (4) SPARE WIRES OVER THE ENTIRE LENGTH ON SPAN WIRE INSTALLATION.
- EACH SIGNAL PHASE SHALL HAVE ITS OWN NEUTRAL. SHARING OF A NEUTRAL IS NOT ALLOWED.
- EACH PEDESTRIAN PHASE SHALL HAVE ITS OWN NEUTRAL. SHARING OF A NEUTRAL IS NOT ALLOWED.
- SIGNAL CABLE SHALL BE #14 AWG STRANDED COPPER USED UNLESS OTHERWISE SPECIFIED, AND SHALL MEET IMSA SPECIFICATIONS #19-1.
- ALL PEDESTRIAN DETECTORS SHALL BE WIRED WITH A (2) CONDUCTOR SHIELDED CABLE (BELDEN/HOMERUN TYPE CABLE). EACH BUTTON TO HAVE ITS OWN CABLE FROM THE SIGNAL CABINET. NO SPLICING IS ALLOWED.

100% Plans Submittal

REVISIONS				DAVID J. ALLEN, P.E. P.E. LICENSE NUMBER 58540 CARDNO 3905 CRESCENT PARK DRIVE RIVERVIEW, FLORIDA 33578 CERTIFICATE OF AUTHORIZATION 29915	LEE COUNTY DEPARTMENT OF TRANSPORTATION			GENERAL NOTES (1)	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NAME	COUNTY	LEE COUNTY NO.		
						SUNSHINE BLVD.	LEE		CN160311

PAY ITEM NOTES (CONT.)

THE COLOR CODE OF SIGNAL CABLE SHALL BE VERIFIED WITH LEE COUNTY TRAFFIC SECTION PRIOR TO WIRING INTERSECTION. THE COLOR CODE CAN BE OBTAINED FROM LEE COUNTY TRAFFIC SECTION.

SIGNAL CABLE SHALL BE ATTACHED TO THE MESSENGER BY MEANS OF TIE WRAPS AND LASHING ROD. LASHING ROD SHALL THREAD THROUGH THE DRIP LOOP.

ALL IMSA 19-1 SIGNAL CABLE OUTER BLACK JACKET SHALL EXTEND INTO DISCONNECTS A MINIMUM OF 3".

634-4-153:  
THE CATENARY SHALL BE INSTALLED AT THE SPECIFIED DESIGN SAG WITH A MINIMUM OF 12" AND A MAXIMUM OF 24" SEPARATION FROM THE BOTTOM MESSENGER WIRE. THE BOTTOM MESSENGER SHALL BE INSTALLED WITHOUT SAG AT THE SPECIFIED LOCATION ON THE CONCRETE POLE.

2-POINT ATTACHMENT SPANS SHALL BE INSTALLED PER FDOT STANDARDS USING BREAKAWAY HINGE.

IF A HIGHER GRADE AND/OR RATED LOAD IS SPECIFIED FOR THE BOTTOM MESSENGER WIRE BY THE DESIGNER, THE BOTTOM MESSENGER SHALL HAVE A RATED LOAD THAT IS LESS THAN THE TOP CATENARY.

635-2-11:  
PULL BOXES SHALL BE COMPOSITE CONSTRUCTION (QUAZITE) AND LOAD RATED 20,000 LBS. NO EXCEPTIONS WILL BE APPROVED.

PULL BOX LIDS SHALL BE COMPOSITE CONSTRUCTION (QUAZITE) AND MARKED APPROPRIATELY, "TRAFFIC SIGNAL" OR "STREET LIGHT".

NO CONCRETE PULL BOXES OR STEEL LIDS SHALL BE ALLOWED.

PULL BOXES SHALL BE SIZED TO ACCOMMODATE MAXIMUM NUMBER OF PIPES ALLOWED PER NEC AND TO COMPLY WITH CABLE MANUFACTURER'S BEND RADIUS.

A PULL BOX WITH A MINIMUM COVER MEASUREMENT OF 17" X 30" X 12" SHALL BE USED ON TRAFFIC SIGNALS AND STREET LIGHTS. COVER SHALL BE MARKED "TRAFFIC SIGNAL, OR STREET LIGHT".

PULL BOXES SHALL BE INSTALLED ON A BED OF GRAVEL WITH A MINIMUM DEPTH OF TWELVE (12) INCHES. GRAVEL SHALL BE 57 STONE OR EQUIVALENT. GRAVEL SHALL BE INSTALLED INSIDE THE PULL BOX TO A LEVEL OF TWO (2) INCHES BELOW TOP OF CONDUITS.

CONDUIT IN A PULL BOX SHALL BE NO HIGHER THAN HALF THE DEPTH OF THE PULL BOX.

ALL PULL BOXES SHALL HAVE A CONCRETE APRON. APRON SHALL BE 1 FOOT WIDE X 6 INCHES DEEP.

639-1-112:  
SERVICE SHALL BE MINIMUM 60 AMP, 120/240 VOLT THREE-WIRE.

DISCONNECT SHALL BE A SQUARE D Q06-12L100RB.

ALL SERVICES SHALL BE METERED. A BY-PASS METER CAN SHALL BE INSTALLED ON EACH ELECTRIC SERVICE WHERE POWER IS SUPPLIED BY LCEC. INSTALL A JOSLYN LDP20-120-2 OR EQUIVALENT SURGE ARRESTOR TO ELECTRIC SERVICE DISCONNECT.

GALVANIZED RIGID CONDUIT SHALL BE USED FOR RISER AND WHERE EXPOSED ABOVE GROUND. MINIMUM OF 1" CONDUIT FOR RISERS.

CIRCUIT BREAKER FOR CABINET SHALL BE 120V, 30 AMP; CIRCUIT BREAKER FOR STREET LIGHTS SHALL BE 120V, 15 AMP. EACH 15 AMP BREAKER TO HAVE OWN PHOTOCCELL. PHOTOCCELL SHALL BE A MINIMUM OF 1800 WATTS.

GROUND WIRE SHALL BE IN 1/2 INCH SCHEDULE 80 PVC OR 1/2 INCH RIGID GALVANIZED CONDUIT. CONDUIT SHALL EXTEND MINIMUM OF 6 INCHES BELOW FINISH GRADE.

RISER CONDUIT SHALL BE CONNECTED TOGETHER BY USE OF GALVANIZED THREADED COUPLINGS OR COMPRESSION NO-THREAD COUPLINGS.

641-2-18:  
EACH SIGNAL POLE SHALL HAVE A MINIMUM OF THREE (3) EACH TWO (2) INCH CONDUITS INSTALLED IN EACH POLE, EXTEND CONDUITS WITHIN POLE TO 1 INCH BELOW HANDHOLE.

CONCRETE FOR POLE FOUNDATION SHALL BE TWELVE (12) INCHES BELOW EXISTING GRADE.

CALCULATIONS FOR DESIGN SHALL BE SUBMITTED TO TRAFFIC ENGINEER FOR APPROVAL PRIOR TO ORDERING OF POLES.

SIGNAL POLES SHALL COMPLY WITH TYPICAL DRAWINGS, AS TO PLACEMENT OF ATTACHMENT POINTS, NIPPLE PLACEMENT, HANDHOLE AND MOUSE HOLE SIZE. MOUSE HOLE SHALL BE CUT AT 45° TO FACILITATE INSTALLATION OF CONDUITS.

ENSURE ALL CONCRETE SIGNAL POLES COMPLY WITH STANDARD DESIGN AND LEE COUNTY SPECIFICATIONS PRIOR TO INSTALLING.

CONCRETE POLES ARE TO BE DESIGNED BY THE POLE MANUFACTURER TO MEET FDOT STANDARDS AND LEE COUNTY'S SPECIFICATIONS AND DETAILS.

646-1-11:  
USE FOUR (4) INCH ID ALUMINUM CONDUIT FOR PEDESTALS. USE PELCO OR EQUAL BREAKAWAY BASES WITH LOCKING SET SCREW AND GROUND LUG.

650-1-14, 650-1-16:  
ALL SIGNAL HEADS SHALL HAVE A ONE-PIECE METAL LOUVERED REFLECTORIZED BACKPLATE. BACKPLATES SHALL BE REFLECTORIZED FOR ALL DIRECTIONS. PLASTIC BACKGROUNDS REQUIRE SUBMITTAL AND DEPARTMENT APPROVAL.

ALL DISPLAYS SHALL BE EXTENDED VIEW LED DISPLAYS.

TERMINAL BLOCKS AND JONES PLUGS SHALL BE REMOVED FROM EACH DISCONNECT PRIOR TO INSTALLATION. NO WIRING HARNESSSES SHALL BE USED IN SIGNAL HEADS. USE #14 STRANDED (THHN) COPPER RED, YELLOW, GREEN, AND WHITE WIRE.

NO ARROW INSERTS ALLOWED.

HUBS SHALL BE SILICONE SEALED TO SIGNAL HEADS.

DIE-CAST METAL HEADS SHALL BE USED UNLESS OTHERWISE APPROVED BY LEE COUNTY.

TWO (2) EACH 1/4 INCH DRAIN HOLE SHALL BE DRILLED IN BOTTOM OF SIGNAL HEADS.

THE SIGNAL PHASE SHALL BE MARKED IN SIGNAL HEAD.

IMSA 19-1 SIGNAL CABLE OUTER JACKET SHALL REMAIN INTACT THROUGH ASSEMBLY, EXTENDED A MINIMUM OF THREE (3) INCHES INTO TRAFFIC SIGNAL DISCONNECT ON SPAN WIRE INSTALLATION.

MESSENGER CLAMPS SHALL BE CORRECT SIZE FOR CABLE USED. MESSENGER CLAMPS SHALL BE 2-INCHES BY 6-INCHES WITH 2 (TWO) EACH 3/8 INCH HOLES.

ALL ATTACHING HARDWARE FOR MESSENGER WIRE SHALL BE STAINLESS STEEL 304 OR 316. SPLICES IN DISCONNECTS SHALL BE DONE BY USING BUCHANAN B2 RED WIRE NUTS.

TRI STUD HANGER SHALL BE SILICONE SEALED WHERE IT ATTACHES TO DISCONNECT.

CABLE ENTRANCES IN DISCONNECTS, WHEN NOT USED, SHALL BE SEALED.

NEOPRENE GROMMETS SHALL BE INSTALLED IN BOTH SIDES OF DISCONNECTS.

SIGNAL CABLE OUT JACKET TO BE INSERTED A MINIMUM OF THREE (3) INCHES INTO DISCONNECT.

653-1-11:  
USE INTERNATIONAL SYMBOL LED COUNTDOWN WITH DIFFUSER HEADS ONLY, WITH EGG CRATE VISOR.

REVISIONS				DAVID J. ALLEN, P.E. P.E. LICENSE NUMBER 58540 CARDNO 3905 CRESCENT PARK DRIVE RIVERVIEW, FLORIDA 33578 CERTIFICATE OF AUTHORIZATION 29915	LEE COUNTY DEPARTMENT OF TRANSPORTATION			GENERAL NOTES (2)	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NAME	COUNTY	LEE COUNTY NO.		
						SUNSHINE BLVD.	LEE		CN160311

PAY ITEM NOTES (CONT.)

ALL ATTACHING HARDWARE SHALL BE STAINLESS STEEL 304 OR 316.

MOUNTING HEIGHT OF PEDESTRIAN HEADS SHALL BE NINE (9) FEET SIX (6) INCHES ABOVE GRADE TO BOTTOM OF HEAD.

SEAL WITH SILICONE AROUND TOP CAPS AND PED BUTTONS.

PLACEMENT OF PED SIGNS SHALL BE "PUSH TO WALK" ABOVE BUTTON AND INSTRUCTION BELOW BUTTON. EXPLANATORY SIGNS BE MOUNTED ABOVE THE BUTTONS. EACH SIGN IS TO IDENTIFY THE CROSSWALK TO WHICH EACH BUTTON APPLIES.

SIGNAL CABLE SHALL BE SPLICED IN BASE OF PEDESTAL AND NOT IN PEDESTRIAN HEAD. SPLICE CABLE WITH RED BUCHANAN B2 B-CAP WIRE NUTS.

660-3-11, 660-3-12:  
THE PROPOSED DILEMMA ZONE DETECTION SYSTEM SHALL BE MICROWAVE CONTROLLED WITH A DETECTION RANGE OF UP TO 900 FEET. THE CONTROLLER ASSEMBLY DILEMMA ZONE DETECTION SYSTEM CONTROL UNIT SHALL BE SHELF MOUNTED WITH TS2 SDLC AND ETHERNET COMMUNICATIONS. THIS PAY ITEM NUMBER INCLUDES ALL MATERIALS REQUIRED FOR A COMPLETE AND ACCEPTED INSTALLATION. ALL MATERIALS AND EQUIPMENT USED SHALL BE AS PER MANUFACTURER'S RECOMMENDATIONS. DETECTION ZONES SHALL BE SET UP AS INDICATED IN THE PLANS AND PER LEE COUNTY SPECIFICATIONS.

660-4-11, 660-4-12:  
AUTOSCOPE ENCORE OR ALDIS GRID SMART ARE THE PREFERRED VIDEO DETECTION FOR LEE COUNTY. THESE ARE GENERAL SPECIFICATIONS FOR SOLO TERRA OR ALDIS GRID SMART INSTALLATIONS AT AN AVERAGE INTERSECTION, IF ANY QUESTIONS CALL LCDOT AT (239) 533-9500.

AUTOSCOPE ENCORE POWER CABLE INSTALLATION  
USE A 3 CONDUCTOR #18 STRANDED CABLE WITH POLYETHYLENE JACKET FOR INDIVIDUAL RUNS FROM THE TERRA INTERFACE PANEL (TIP) TO EACH CAMERA. MUST USE SJOOW #18 (FROM YOUR LOCAL ELECTRICAL SUPPLY HOUSE) OR ECONOLITE PART #1175-011.

A WEATHER HEAD AND DRIP LOOP MUST BE USED COMING FROM THE CONCRETE POLE TO THE SPAN.

LABEL ALL CABLES ENTERING THE HAND HOLE AND CABINET SO THAT IT CORRESPONDS TO THE SOLO TERRA TO WHICH IT IS CONNECTED. YELLOW WIRE NUTS (NOT SILICONE FILL) MUST BE USED IN ALL SPLICES. IN THE CABINET, USE THE TERMINAL STRIP PROVIDED ON THE TIP. UP TO TWO TERRAS CAN BE INSTALLED ON EACH CONNECTION. ON THE AUTOSCOPE ENCORE CAMERA CONNECTION USE THE "EASY LOCK" POWER CONNECTOR SUPPLIED WITH EACH CAMERA. FOLLOW AUTOSCOPE SOLO TERRA INSTALLATION GUIDE CHAPTER NUMBER 4 OR ECONOLITE BULLETIN #AN2098.

USE ONE CAMERA PER POLE MOUNTED DIAGONALLY FROM THE STOP BAR. FOR ANY QUESTION IN CAMERA PLACEMENT CALL LCDOT AT (239) 533- 9500 BEFORE INSTALLATION.

SEE LCDOT SPECIFICATIONS FOR MORE ADDITIONAL INFORMATION AND INSTALLATION REQUIREMENTS.

665-1-12:  
DETECTORS SHALL BE POLARA EZ COMM NAVIGATOR 2-WIRE (EN2) AND EZ COMMUNICATOR CENTRAL CONTROL UNIT W/ ETHERNET (CCU2EN).

POLARA EN2 TO HAVE STREET NAMES PROGRAMMED BY POLARA, AND LEE COUNTY SHALL RECEIVE THE VOICE FILES FOR INTERSECTION. EACH INSTALL SHALL INCLUDE AN EZ COMM NAVIGATOR CONFIGURATOR. CONTRACTOR SHALL BRING ALL EN2'S AND CCU2EN'S TO LEE COUNTY FOR LEE COUNTY AUDIBLE PED SPECS PROGRAMMING AND SW UPGRADE IF NEEDED AND TO PROGRAM IP ADDRESS. LEE COUNTY WILL LABEL WHERE EACH EN2'S GOES AFTER BEING PROGRAMMED. BELDEN (SHIELDED) CABLE SHALL BE INSTALLED TO EACH EN2. PLEASE CALL LCDOT FOR ANY FURTHER QUESTIONS (239) 533-9500.

MOUNTING HEIGHT OF PEDESTRIAN BUTTON SHALL BE FORTY-TWO (42) INCHES TO CENTER OF BUTTON ABOVE GRADE. BUTTON SHOULD BE UNDER THE HEAD IT CALLS.

BELDEN (SHIELDED) CABLE SHALL BE USED AS PEDESTRIAN DETECTOR CALL WIRE. CALL WIRES SHALL BE CONNECTED TO A PED ISOLATOR BOARD AND CHASSIS GROUND IN CABINET.

670-5-110:  
THE CONTROLLER SHALL BE AN ECONOLITE ASC-3/1000 WITH TELEMETRY. SEE LEE COUNTY SPECIFICATIONS FOR MORE INFORMATION INCLUDING BUT NOT LIMITED TO TS2 TYPE 1 CABINET REQUIREMENTS.

THE CABINET BASE SHALL BE COMPOSITE CONSTRUCTION (QUAZITE). EQUAL TO QUAZITE P/N: PB40581224B24, APPROVED FOR LEE COUNTY.

THE CABINET BASE SHALL BE BURIED TO MANUFACTURER'S RECOMMENDED DEPTH. ALL FILL DIRT MUST BE COMPACTED AROUND THE CABINET BASE.

INSTALL TWELVE (12) INCH MINIMUM OF BED OF ROCK UNDER CABINET BASE. GRAVEL SHALL BE 57 STONE OR EQUIVALENT.

A PRECAST CONCRETE PAD SHALL BE PLACED IN FRONT OF THE CABINET BASE. IT SHALL BE THE LENGTH OF THE BASE AND A MINIMUM THIRTY (30) INCHES WIDE AND 4 INCHES THICK. CONTRACTOR'S OPTION TO POUR IN PLACE.

ELEVATION OF CABINET BASE SHALL BE AT THE SAME ELEVATION AS THE CENTER OF ROADWAY, BUT NO HIGHER THAN TWELVE (12) INCHES ABOVE THE CENTER OF ROADWAY.

SPARE CONDUITS FROM CABINET BASE SHALL TERMINATE AT A PULL BOX IN FRONT OF THE BASE AND SHALL BE SEALED WITH DUCT SEAL OR CAPPED.

STUB UP CONDUITS SHALL BE NO LOWER THAN TWELVE (12) INCHES AND NO HIGHER THAN SIX (6) INCHES BELOW THE ACCESS HOLE IN CABINET PAD.

700-3-202:  
A PELCO ARM FOR STREET SIGNS SHALL BE ATTACHED TO CONCRETE STRAIN POLES. RIGIDLY MOUNT THE SIGN TO ARM, NO FREE SWINGING ATTACHMENTS.

715-1-12:  
ALL CONDUCTORS SHALL USE XLP INSULATION.

NO SPLICING PERMITTED IN PULL BOXES UNLESS APPROVED BY LEE COUNTY TRAFFIC ENGINEERING. SPLICE ONLY BY USE OF USPA INLINE SPLICE.

GROUND WIRE SHALL BE RUN UP POLE TO GROUND THE FIXTURE.

BREAKAWAY RECEPTACLES WITH SET SCREW CONNECTORS AND RUBBER BOOTS SHALL BE INSTALLED IN EACH POLE.

SURGE ARRESTORS SHALL BE INSTALLED IN EACH POLE.

USE #10 STRANDED WIRE TO FEED STREET LIGHT HEAD FROM POLE BASE, HOT - HOT/NEUTRAL - GROUND.

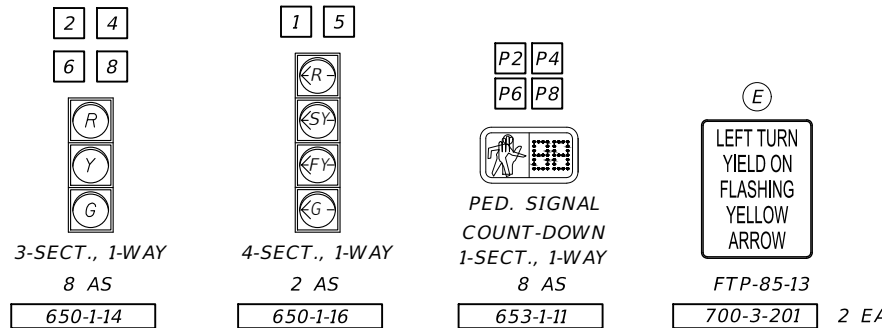
ALL CONDUCTORS INSTALLED FROM THE SERVICE PULLED THROUGH CONDUITS TO EACH STREET LIGHT LUMINAIRE SHALL HAVE THE FOLLOWING COLOR INSULATION DESIGNATIONS: THE HOT CONDUCTOR SHALL BE BLACK, THE NEUTRAL CONDUCTOR SHALL BE WHITE AND THE GROUNDING CONDUCTOR SHALL BE GREEN.

ALL CONDUCTORS SHALL BE CONTINUOUS IN COLOR FROM THE SERVICE TO EACH STREET LIGHT LUMINAIRE. UNDER NO CIRCUMSTANCES SHALL PHASE TAPE BE USED TO IDENTIFY A CONDUCTOR.

715-5-31:  
THIS PAY ITEM SHALL INCLUDE AN 8-FOOT ALUMINUM BRACKET ARM, MOUNTING HARDWARE, WIRING AND AN AEL AUTOBAHN ATB2 177 WATT LED LUMINAIRE WITH 4000K COLOR TEMPERATURE, TYPE 4 DISTRIBUTION, HOUSE SIDE SHIELDS, A FIELD ADJUSTABLE MODULE AND WIRED FOR 120 VOLTS. THE IES CURVE FOR THIS LUMINAIRE IS ATB2\_40BLEDE13\_XXXXX\_R4\_HS. THE BRACKET ARMS SHALL BE MOUNTED ON THE PROPOSED STRAIN POLES AT A LUMINAIRE MOUNTING HEIGHT OF 25 FEET ABOVE GRADE. THE BRACKET ARMS SHALL BE ORIENTATED TOWARDS THE CENTER OF THE INTERSECTION AS DEPICTED IN THE PLANS.

REVISIONS				DAVID J. ALLEN, P.E. P.E. LICENSE NUMBER 58540 CARDNO 3905 CRESCENT PARK DRIVE RIVERVIEW, FLORIDA 33578 CERTIFICATE OF AUTHORIZATION 29915	LEE COUNTY DEPARTMENT OF TRANSPORTATION			GENERAL NOTES (5)	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NAME	COUNTY	LEE COUNTY NO.		
						SUNSHINE BLVD.	LEE		CN160311





**CONTROLLER OPERATION**

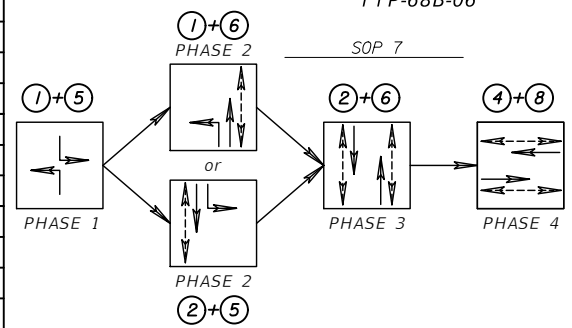
- MAJOR STREET IS SUNSHINE BOULEVARD, MINOR STREET IS 8TH STREET SW.
- THE CONTROLLER CABINET SHALL BE WIRED FOR SOP 10 AND OPERATE AS INDICATED.

**NOTES:**

- POSTED SPEED FOR SUNSHINE BLVD IS 45 MPH. POSTED SPEED FOR 8TH STREET SW IS 35 MPH FOR THE WEST APPROACH AND 30 MPH FOR THE EAST APPROACH.
- THE POWER COMPANY WILL REPLACE EXISTING LUMINAIRE WITH AN AEL AUTOBAHN ATB2 91 WATT 4000K TYPE 5 DISTRIBUTION WITH A HOUSE SIDE SHIELD AND FIELD ADJUSTABLE MODULE ON THE EXISTING BRACKET ARM. IES PHOTOMETRIC DESIGN IS ATB2\_40BLEDE70\_XXXXX\_R5.IES.
- THE POWER COMPANY WILL INSTALL A POLE WITH ARM AND LUMINAIRE. THE BRACKET ARM WILL BE 8 FEET LONG WITH A LUMINAIRE MOUNTING HEIGHT OF 25 FEET. THE LUMINAIRE WILL BE AN AEL AUTOBAHN ATB2 138 WATT 4000K TYPE 4 DISTRIBUTION WITH A HOUSE SIDE SHIELD AND FIELD ADJUSTABLE MODULE. IES PHOTOMETRIC DESIGN IS ATB2\_40BLEDE10\_XXXXX\_R4\_HS.

**VIDEO DETECTOR ZONES**

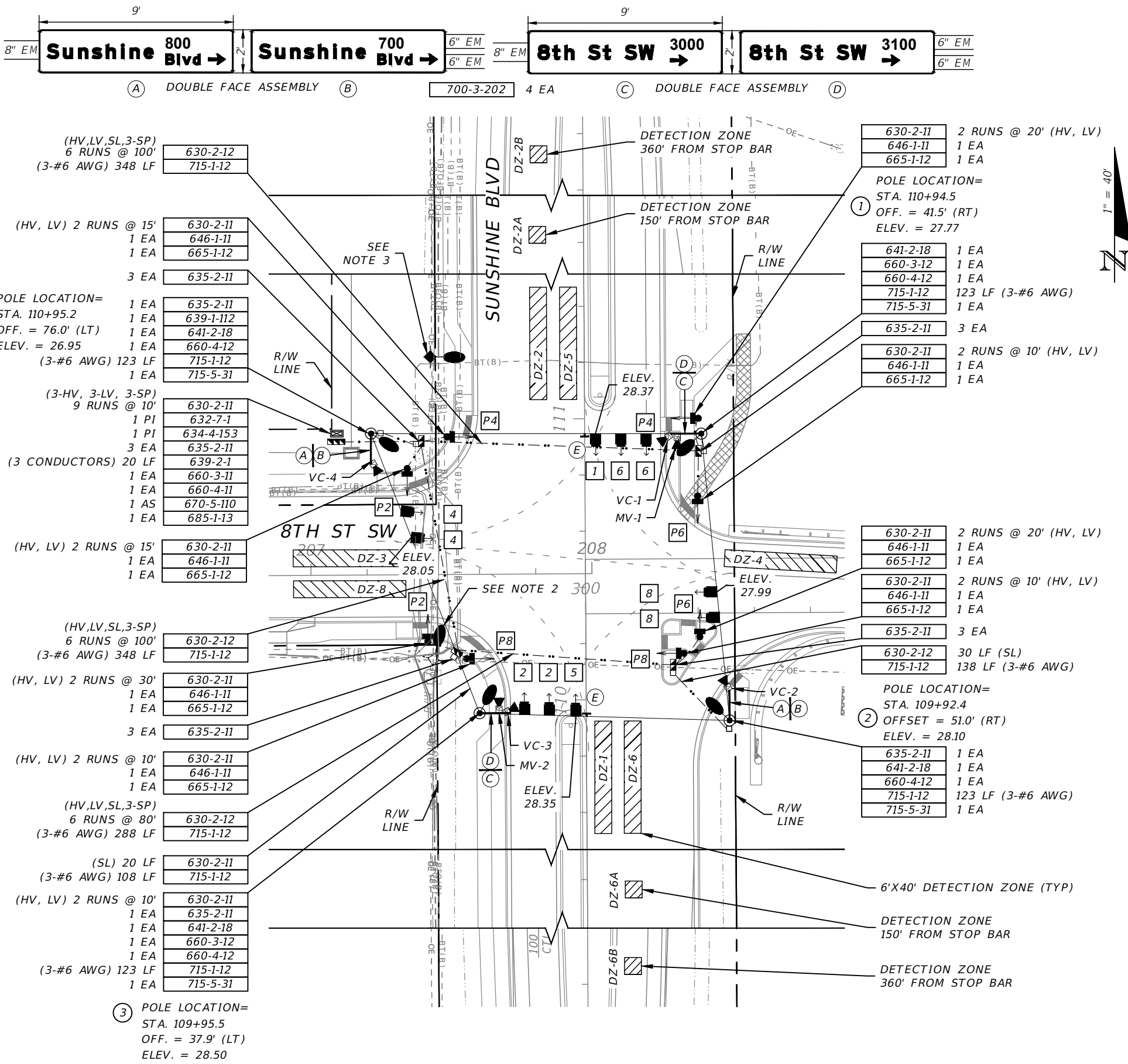
ZONE LOCATION NO.	VIDEO CAMERA/MVDS NO.	NO. OF DETECTION ZONES	DELAY TIME (SEC)
DZ-1	VC-4	1	0
DZ-2	VC-2	1	0
DZ-2A	MV-2	1	0
DZ-2B	MV-2	1	0
DZ-3	VC-1	1	0
DZ-4	VC-3	1	0
DZ-5	VC-2	1	0
DZ-6	VC-4	1	0
DZ-6A	MV-1	1	0
DZ-6B	MV-1	1	0
DZ-8	VC-1	1	0



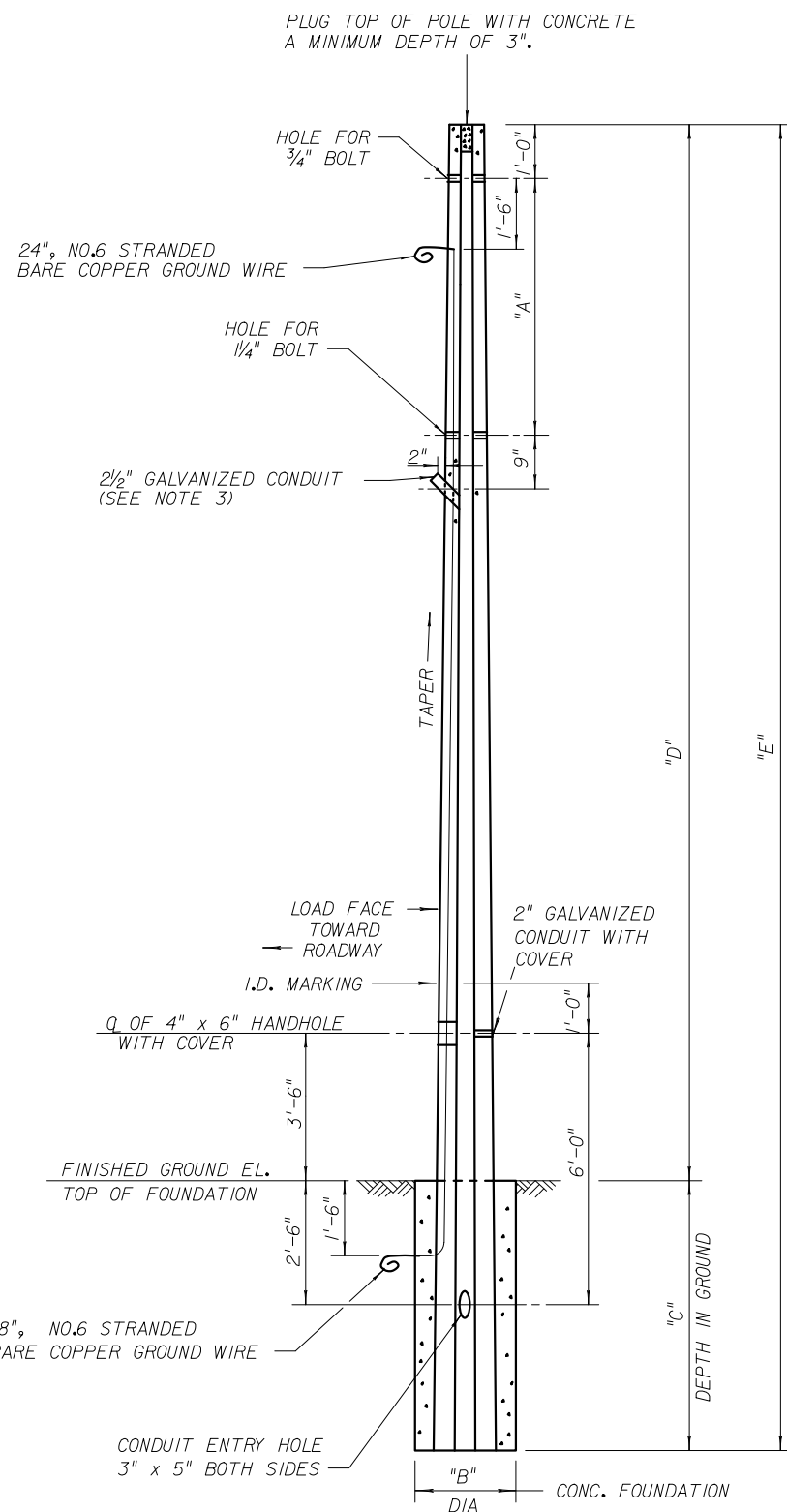
**CONTROLLER TIMINGS**

TIMING FUNCTION		1	2	3	4	5	6	7	8
MOVEMENT NUMBER									
MINIMUM GREEN		7	20		7	7	20		7
EXTENSION		2.5	2.5		2.5	2.5	2.5		2.5
MAXIMUM GREEN		12	30		20	12	30		20
MAXIMUM GREEN 2									
YELLOW CLEARANCE		4.8	4.8		4.0	4.8	4.8		4.0
ALL RED		2.0	2.2		2.0	2.0	2.2		2.0
PEDESTRIAN WALK			7			7			7
PED. CLEARANCE			31			17			31
RECALL			MIN				MIN		

TIMINGS ARE INITIAL AND MAY REQUIRE FIELD ADJUSTING AS DIRECTED BY PROJECT ENGINEER.



REVISIONS		DATE	DESCRIPTION	DAVID J. ALLEN, P.E. P.E. LICENSE NUMBER 58540 CARDNO 3905 CRESCENT PARK DRIVE RIVERVIEW, FLORIDA 33578 CERTIFICATE OF AUTHORIZATION 29915	LEE COUNTY DEPARTMENT OF TRANSPORTATION			SIGNALIZATION PLAN	SHEET NO. T-7
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NAME	COUNTY	LEE COUNTY NO.		
					SUNSHINE BLVD.	LEE	CN160311		

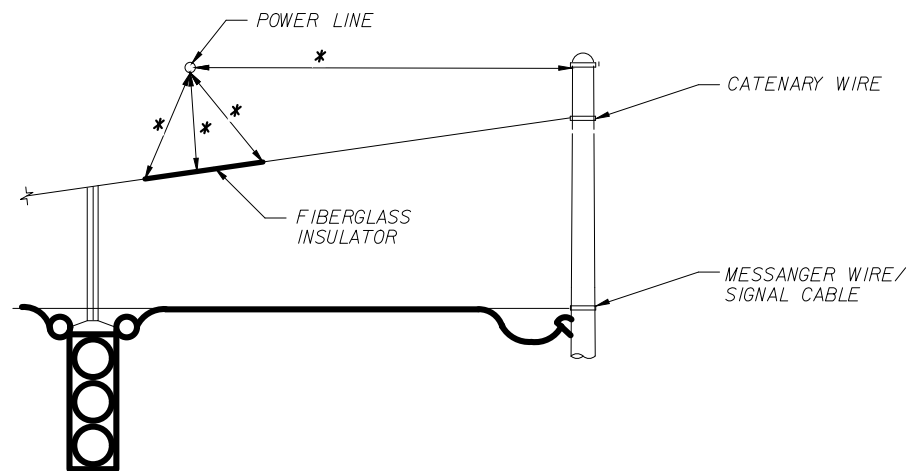


**CONCRETE POLE ELEVATION**  
N.T.S.

CONCRETE STRAIN POLE SCHEDULE													
SHEET NUMBER	POLE NO.	POLE TYPE	FINISHED GROUND EL. AT POLE	PAVEMENT EL. UNDER CRITICAL HEAD	DIM. A (FT)	DIM. B (FT)	DIM. C (FT)	DIM. D (FT)	DIM. E (FT)	CATENARY WIRE DIA. (IN.)/GRADE	MESSENGER WIRE DIA. (IN.)/GRADE	FOUNDATION DESIGN ASSUMPTIONS	
												EFFECTIVE SOIL UNIT WT. (PCF)	ANGLE OF INTERNAL FRICTION (DEG.)
T-7	1	P-VIII	27.77	28.37 (SPAN 1-4)	7.00	3.5	20	32.30	52.30	3/8	1/2	37.6	23
T-7	2		28.10	28.35 (SPAN 2-3)	6.25			31.20	51.20				
T-7	3		28.50	28.05 (SPAN 2-3)	6.25			30.80	50.80				
T-7	4		26.95	28.37 (SPAN 1-4)	7.00			33.10	53.10				

**NOTES:**

- FOR ADDITIONAL DETAILS NOT SHOWN ON THIS SHEET, REFER TO STANDARD PLAN INDEX 641-010.
- DESIGN WIND SPEED: 160 MPH.
- A PROPERLY SIZED SERVICE HEAD, (WEATHERHEAD) SHALL BE INSTALLED AND FASTENED SECURELY ONTO CONDUIT FOR EACH POLE LOCATION. AT LOCATIONS OTHER THAN SERVICE ENTRANCE, THE SERVICE HEAD FACE IS TO BE LEFT CLOSED TO OUTSIDE ATMOSPHERE. SERVICE ENTRANCE INSTALLATION PER STANDARD PLAN INDEX 634-001.
- PROVIDE SHOP DRAWINGS FOR THE LUMINAIRE BRACKET ARM.



**DETAIL OF POWER LINE CROSSING**

N.T.S.

NOTE: SIGNAL HEAD ATTACHMENT SHALL BE A MINIMUM OF 6" FROM END OF INSULATOR.

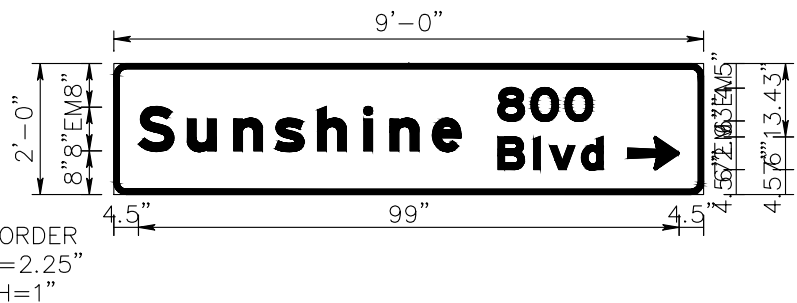
\* DISTANCE WILL VARY. THE DESIRABLE MINIMUM DISTANCE IS 6'. HOWEVER, THE DISTANCE MUST MEET MINIMUM NATIONAL ELECTRICAL CODE STANDARDS.

POWER LINES SHALL MEET NATIONAL ELECTRICAL CODE WORKING CLEARANCES FOR NON-QUALIFIED PERSONNEL, SIGNAL HEADS AND SIGNAL POLE ATTACHMENTS.

REVISIONS				CHRISTOPHER P. GAMACHE, P.E. P.E. LICENSE NUMBER 82122 CARD NO 380 PARK PLACE BLVD, SUITE 300 CLEARWATER, FLORIDA 33759 CERTIFICATE OF AUTHORIZATION 29915	LEE COUNTY DEPARTMENT OF TRANSPORTATION			CONCRETE STRAIN POLE SCHEDULE	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NAME	COUNTY	LEE COUNTY NO.		
					SUNSHINE BLVD.	LEE	CN160311		

SIGN NAME	A	QTY	2	SIGN NUMBER	STATION(S)
PANEL	BORDER				none
WIDTH	9'-0"	WIDTH	1"		
HEIGHT	2'-0"	RADII	2.25"		
LEGEND	White	COLOR	White		
COLOR	Green				
SYMBOL(S)	ANGLE	X	Y	WID	HT
AR_Type A	270	94.I	4.6	6	9.4
SIGN NUMBER		NUMBER OF POSTS	CLEARANCE Edge Of Lane	COLUMN SIZE	AVERAGE LENGTH

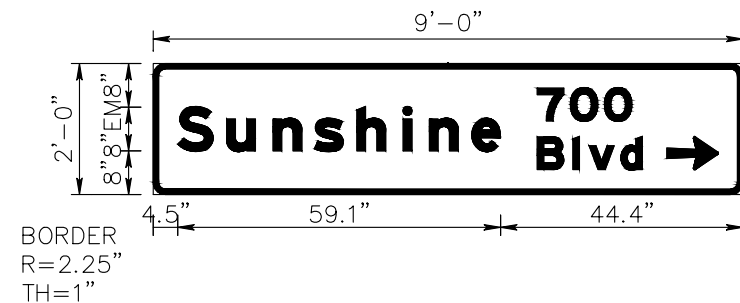
\* SIGN PANELS A AND B ARE TO BE COMBINED FOR ONE SIGN ASSEMBLY. SIGN ASSEMBLY SHALL BE DOUBLE-PANEL, TWO-WAY, ALUMINUM PANEL STREET SIGN ASSEMBLY.



NO. OF LIGHT FIXTURES	FIXTURE SPACING	PHOTOMETRIC CURVE	WATT	VOLTAGE

SIGN NAME	B	QTY	2	SIGN NUMBER	STATION(S)
PANEL	BORDER				none
WIDTH	9'-0"	WIDTH	1"		
HEIGHT	2'-0"	RADII	2.25"		
LEGEND	White	COLOR	White		
COLOR	Green				
SYMBOL(S)	ANGLE	X	Y	WID	HT
AR_Type A	270	94.I	4.6	6	9.4
SIGN NUMBER		NUMBER OF POSTS	CLEARANCE Edge Of Lane	COLUMN SIZE	AVERAGE LENGTH

\* SIGN PANELS A AND B ARE TO BE COMBINED FOR ONE SIGN ASSEMBLY. SIGN ASSEMBLY SHALL BE DOUBLE-PANEL, TWO-WAY, ALUMINUM PANEL STREET SIGN ASSEMBLY.



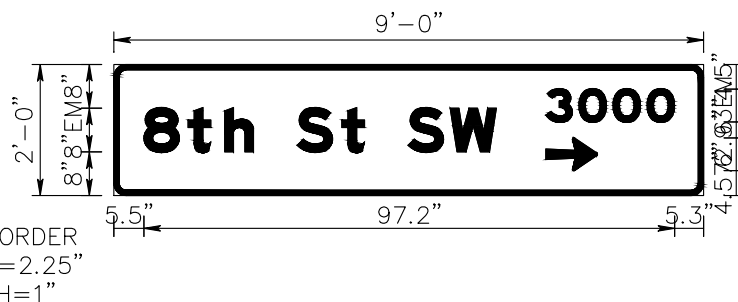
NO. OF LIGHT FIXTURES	FIXTURE SPACING	PHOTOMETRIC CURVE	WATT	VOLTAGE

COPY	8	0	0	L																
SPACE	70.3	76.4	82.6	17.3																
COPY	S	u	n	s	h	i	n	e	L											
SPACE	4.5	13.5	21.9	29.5	37.3	45.8	50.6	58.3	59.1											
COPY	B	l	v	d	L															
SPACE	70.3	76.9	79.8	85.6	19.3															
COPY																				
SPACE																				
COPY																				
SPACE																				

COPY	7	0	0	L																
SPACE	70.3	76.4	82.6	17.3																
COPY	S	u	n	s	h	i	n	e	L											
SPACE	4.5	13.5	21.9	29.5	37.3	45.8	50.6	58.3	59.1											
COPY	B	l	v	d	L															
SPACE	70.3	76.9	79.8	85.6	19.3															
COPY																				
SPACE																				
COPY																				
SPACE																				

SIGN NAME	C	QTY	2	SIGN NUMBER	STATION(S)
PANEL	BORDER				none
WIDTH	9'-0"	WIDTH	1"		
HEIGHT	2'-0"	RADII	2.25"		
LEGEND	White	COLOR	White		
COLOR	Green				
SYMBOL(S)	ANGLE	X	Y	WID	HT
AR_Type A	270	79.I	4.6	6	9.4
SIGN NUMBER		NUMBER OF POSTS	CLEARANCE Edge Of Lane	COLUMN SIZE	AVERAGE LENGTH

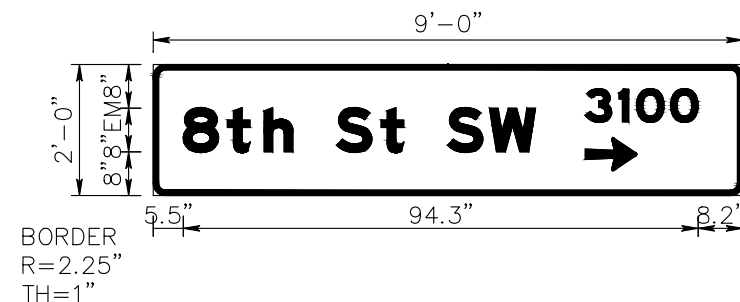
\* SIGN PANELS C AND D ARE TO BE COMBINED FOR ONE SIGN ASSEMBLY. SIGN ASSEMBLY SHALL BE DOUBLE-PANEL, TWO-WAY, ALUMINUM PANEL STREET SIGN ASSEMBLY.



NO. OF LIGHT FIXTURES	FIXTURE SPACING	PHOTOMETRIC CURVE	WATT	VOLTAGE

SIGN NAME	D	QTY	2	SIGN NUMBER	STATION(S)
PANEL	BORDER				none
WIDTH	9'-0"	WIDTH	1"		
HEIGHT	2'-0"	RADII	2.25"		
LEGEND	White	COLOR	White		
COLOR	Green				
SYMBOL(S)	ANGLE	X	Y	WID	HT
AR_Type A	270	79.I	4.6	6	9.4
SIGN NUMBER		NUMBER OF POSTS	CLEARANCE Edge Of Lane	COLUMN SIZE	AVERAGE LENGTH

\* SIGN PANELS C AND D ARE TO BE COMBINED FOR ONE SIGN ASSEMBLY. SIGN ASSEMBLY SHALL BE DOUBLE-PANEL, TWO-WAY, ALUMINUM PANEL STREET SIGN ASSEMBLY.



NO. OF LIGHT FIXTURES	FIXTURE SPACING	PHOTOMETRIC CURVE	WATT	VOLTAGE

COPY	3	0	0	0	L															
SPACE	79.1	85.2	91.4	97.7	23.6															
COPY	8	t	h	S	t	S	W	L												
SPACE	5.5	13.6	20.3	25.6	33.6	41.7	45.9	53.9	61.6	64.6										
COPY																				
SPACE																				
COPY																				
SPACE																				
COPY																				
SPACE																				

COPY	3	1	0	0	L															
SPACE	79.1	85.3	88.5	94.8	20.7															
COPY	8	t	h	S	t	S	W	L												
SPACE	5.5	13.6	20.3	25.6	33.6	41.7	45.9	53.9	61.6	64.6										
COPY																				
SPACE																				
COPY																				
SPACE																				
COPY																				
SPACE																				

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

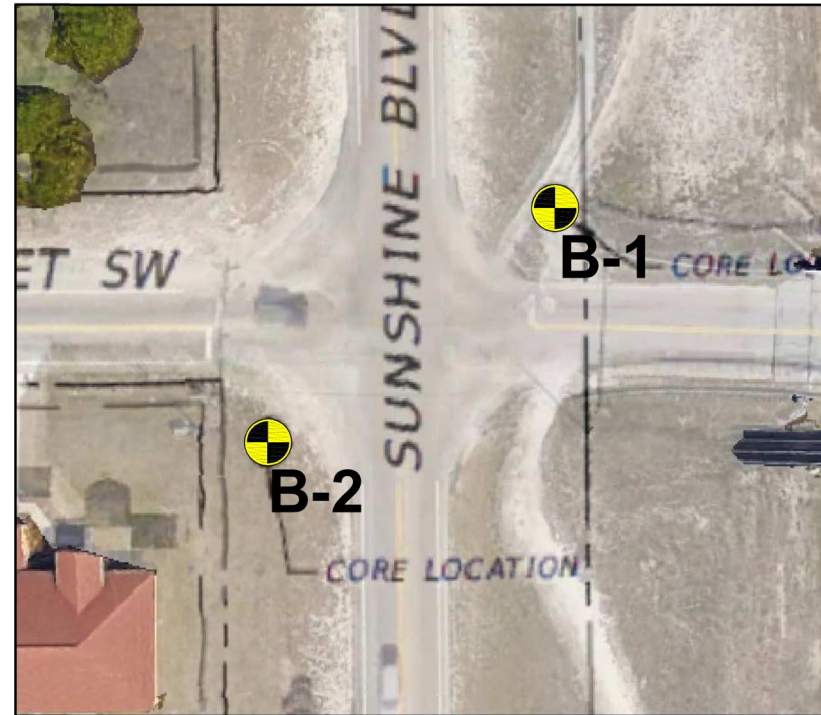
DAVID J. ALLEN, P.E.  
P.E. LICENSE NUMBER 58540  
CARDNO  
3905 CRESCENT PARK DRIVE  
RIVERVIEW, FLORIDA 33578  
CERTIFICATE OF AUTHORIZATION 29915

LEE COUNTY DEPARTMENT OF TRANSPORTATION		
ROAD NAME	COUNTY	LEE COUNTY NO.
SUNSHINE BLVD.	LEE	CN160311

GUIDE SIGN WORK SHEET

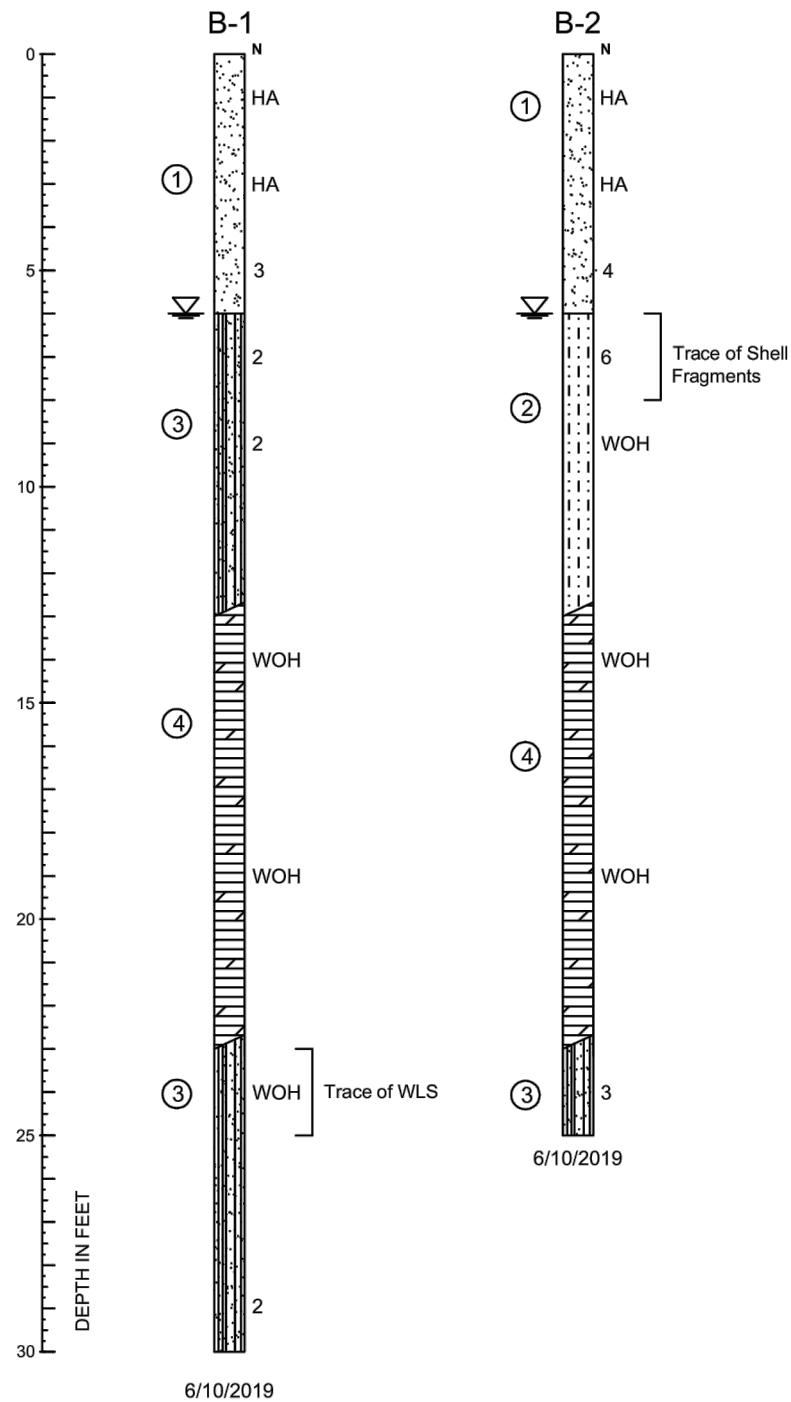
SHEET NO.  
T-9

TEST LOCATION PLAN



NOTES: SPT BORING LOCATION

SOIL PROFILES



SOIL LEGEND

- ① Light Gray to Gray, Dark Brown, SAND (SP) Very Loose to Loose
- ② Light Gray, Light Brown, Slightly Silty SAND (SP-SM) Loose
- ③ Gray, Dark Brown, Silty SAND (SM) Very Loose
- ④ Tan, WEATHERED LIMESTONE (WLS)

SOIL PROFILE LEGEND NOTES

B-X = BORING NUMBER  
 N = SPT TEST VALUE  
 GROUND WATER LEVEL  
 SOIL SYMBOL  
 INDICATES PRACTICAL REFUSAL TO BORING EQUIPMENT  
 H = INDICATES GRADUAL TRANSITION IN SOIL TYPES  
 N - STANDARD PENETRATION RESISTANCE TEST (SPT) VALUE. NUMBERS TO THE LEFT OF BORINGS INDICATE SPT VALUE FOR 12-INCHES OF PENETRATION (UNLESS OTHERWISE NOTED).  
 ALL ELEVATIONS BASED ON EXISTING GROUND LEVEL.  
 WOH = WEIGHT OF HAMMER  
 LFC = LOSS OF DRILLING FLUID CIRCULATION

SOIL CLASSIFICATION

CORRELATION OF N - VALUES WITH RELATIVE DENSITY AND CONSISTENCY				CORRELATION OF N - VALUES WITH HARDNESS DESCRIPTION			
COHESIONLESS SOIL		SILTS AND CLAYS		LIMEROCK			
N - VALUE	RELATIVE DENSITY	N - VALUE	CONSISTENCY	N - VALUE	RELATIVE DENSITY		
0 - 3	VERY LOOSE	0 - 1	VERY SOFT	0 - 19	VERY SOFT		
4 - 8	LOOSE	2 - 4	SOFT	20 - 49	SOFT		
9 - 24	MEDIUM DENSE	5 - 6	FIRM	50 - 100	MEDIUM HARD		
25 - 40	DENSE	7 - 12	STIFF	50 FOR 3 TO 5"	MODERATELY HARD		
OVER 40	VERY DENSE	13 - 24	VERY STIFF	50 FOR 0 TO 2"	HARD		

APPROXIMATE FINES CONTENT	MODIFIERS	APPROXIMATE SHELL CONTENT	MODIFIERS	APPROXIMATE ORGANIC CONTENT	MODIFIERS
5% TO 15%	SLIGHTLY SILTY OR SLIGHTLY CLAYEY	0% TO 5%	WITH A TRACE OF SHELL	0% TO 5%	WITH A TRACE WITH ORGANICS
16% TO 25%	SILTY OR CLAYEY	6% TO 12%	SLIGHTLY SHELLY	5% TO 20%	WITH ORGANICS
26% TO 49%	VERY SILTY OR VERY CLAYEY	13% TO 30%	SHELLY	20% TO 75%	HIGHLY ORGANIC
		31% TO 50%	VERY SHELLY	75% TO 100%	PEAT

DEFINITION OF DESCRIPTIVE TERMS OF MODIFIERS FOR SILTS/CLAYS/SHELLS/GRAVELS ARE DESCRIBED AS FOLLOWS :

PERCENTAGE OF MODIFIER MATERIAL	FIRST QUALIFIER	SECOND QUALIFIER
0 - 5	WITH A TRACE OF + MODIFIER	WITH A TRACE WITH A LITTLE
5 - 12	SLIGHTLY + MODIFIER + Y	WITH SOME
12 - 30	MODIFIER + Y	AND
30 - 50	VERY + MODIFIER + Y	

Boring No.	Stratum	Depth (ft)	Unit Weight (moist) (pcf)	Angle of Internal Friction (°)	Cohesion Cu (psf)	Modulus of Subgrade Reaction (k) (pci)	USCS
B1	1	0-6	110	29	-	25	SP
	2	6-13	100	23	125	20	SM
	3	13-23	115	32	200	35	WLS
	4	23-30	100	23	125	20	SM

B2	1	0-6	110	29	-	25	SP
	5	6-13	105	26	-	20	SP-SM
	3	13-23	115	32	200	35	WLS
	4	23-25	100	23	125	20	SM



100% Plans Submittal

REVISIONS					GFA INTERNATIONAL, INC. 201 WALDO AVE N. LEHIGH ACRES, FLORIDA 33905 DRAWN BY: RMG Adam J. Dornacker P.E. #85319	LEE COUNTY DEPARTMENT OF TRANSPORTATION			<b>REPORT OF TEST BORINGS</b> MAST ARM SIGNALIZATION LEHIGH ACRES, LEE COUNTY, FLORIDA	SHEET NO.
DATE	BY	DESCRIPTION	DATE	BY		DESCRIPTION	ROAD NAME	COUNTY NAME		PROJECT ID
						SUNSHINE BLVD. S. & 8TH ST. SW.	LEE	18-5333.01		