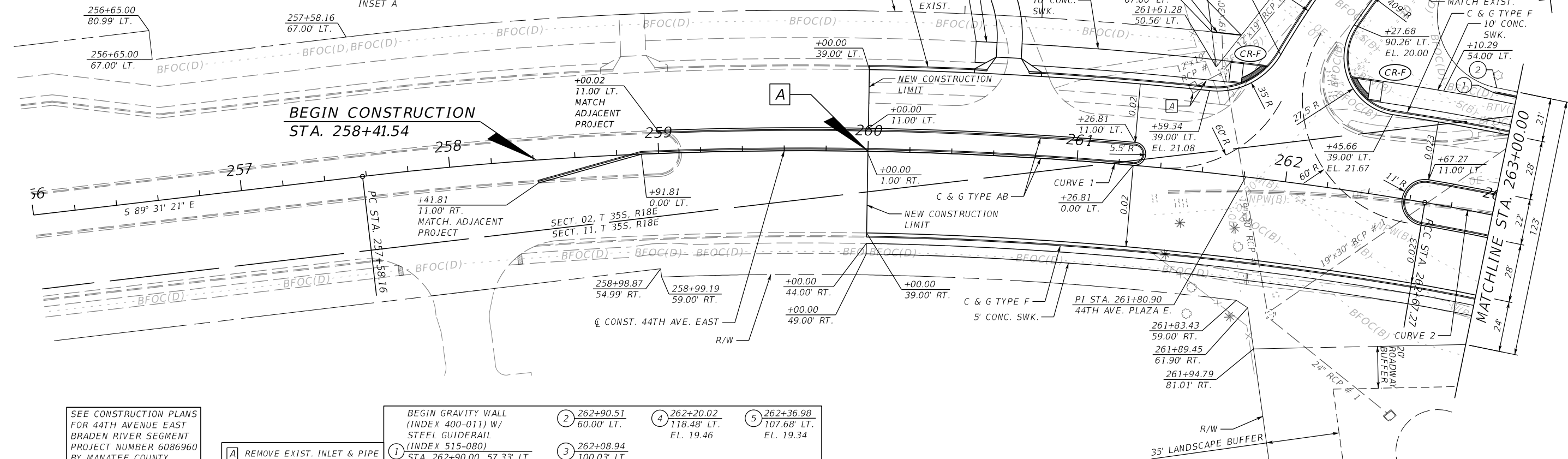
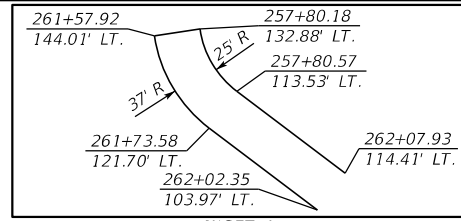
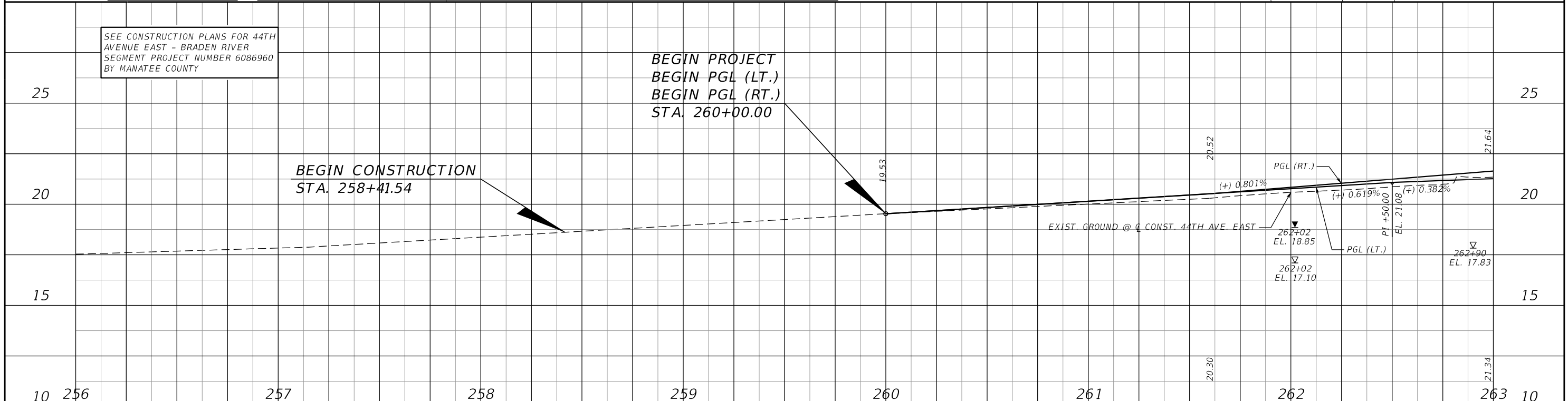


44TH AVENUE EAST

BEGIN PROJECT
 BEGIN PGL (LT.)
 BEGIN PGL (RT.)
 STA. 260+00.00

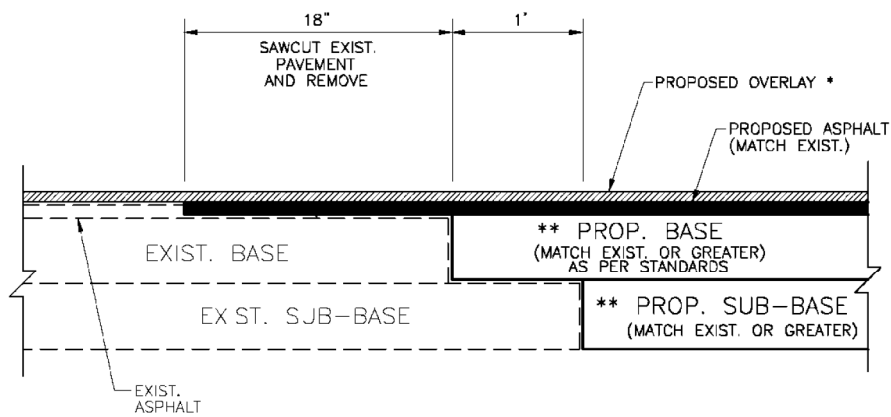


- SEE CONSTRUCTION PLANS FOR 44TH AVENUE EAST BRADEN RIVER SEGMENT PROJECT NUMBER 6086960 BY MANATEE COUNTY
- BEGIN GRAVITY WALL (INDEX 400-011) W/ STEEL GUIDERAIL (INDEX 515-080) STA. 262+90.00, 57.33' LT.
- 1 REMOVE EXIST. INLET & PIPE
- 2 262+90.51 60.00' LT.
- 3 262+08.94 100.03' LT.
- 4 262+20.02 118.48' LT. EL. 19.46
- 5 262+36.98 107.68' LT. EL. 19.34



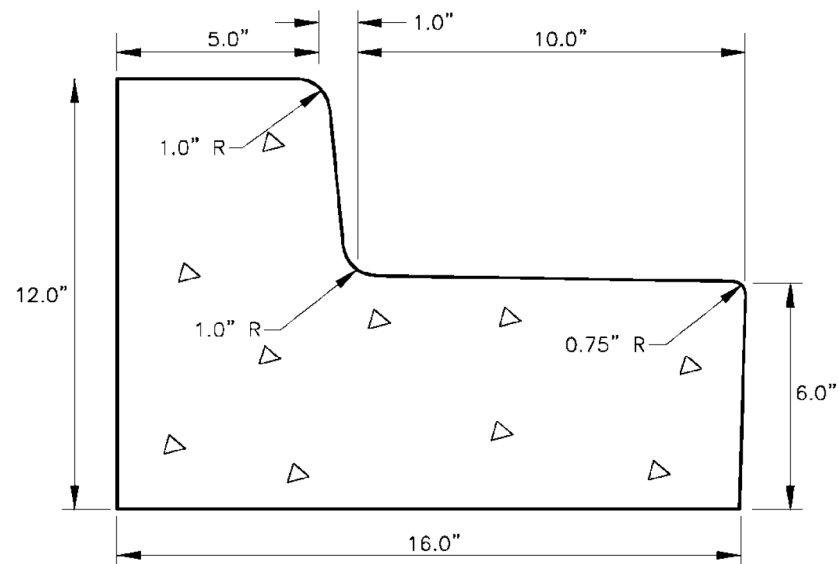
SCALE	AS NOTED	HDR ENGINEERING, INC.	DATE	09/2019	DESIGN ENGINEER	JASON L. STARR	ROADWAY PLAN AND PROFILE (1)	SHEET NO. 16
DESIGNED BY	JLS	2601 CATTLEMEN ROAD, SUITE 400	PROJECT NO.	6045662	FL. LICENSE NO.	70171		
DRAWN BY	JHC	SARASOTA, FLORIDA 34232	MANATEE COUNTY PUBLIC WORKS					
CHECKED BY	DRH	CERTIFICATE OF AUTHORIZATION 4213	Manatee County FLORIDA					

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



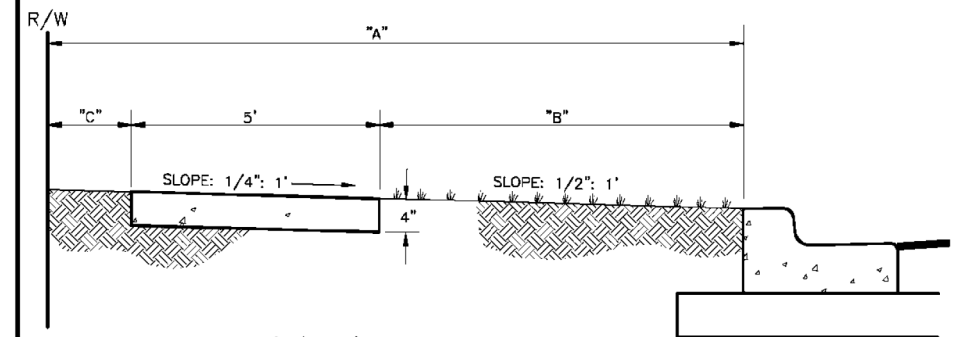
- * NOTE: LIMITS OF OVERLAY – EDGE OF PAVEMENT TO EDGE OF PAVEMENT AND 25' BEYOND LIMITS OF CONSTRUCTION.
 - ** NOTE: CONNECTION TO OLDER (SUBSTANDARD THICKNESS) ROADS MAY REQUIRE THICKER PROPOSED BASE AND SUB-BASE TO MEET CURRENT STANDARDS.
- SIGNAGE AND MARKING PLAN SHALL ACCOMPANY CONSTRUCTION PLAN.

ROAD CONNECTION DETAIL
N.T.S.



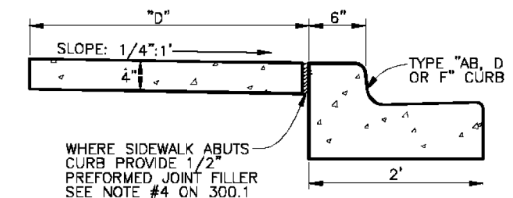
**TYPE "AB"
MODIFIED CURB & GUTTER**

- A) CLASS 1 CONCRETE 3,000 PSI AT 28 DAYS.
- B) CURB AND GUTTER SHALL MEET THE SPECIFICATIONS ESTABLISHED BY FLORIDA D.O.T. STANDARD SPECIFICATIONS PER F.D.O.T. ROADWAY AND TRAFFIC DESIGN STANDARDS INDEX NO. 300, LATEST REVISION.



- A= BACK OF CURB TO R/W (VARIES)
- B= UNPAVED AREA (VARIES). REFER TO F.D.O.T. GREEN BOOK, TABLE 3-12, LATEST REVISION.
- C= VARIES, SEE 401 SERIES

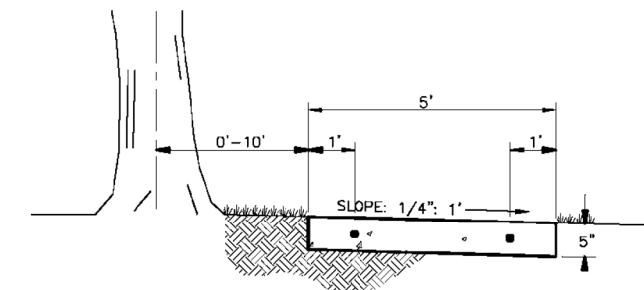
TYPICAL SIDEWALK LOCATION



- D= SIDEWALK WIDTH SHALL BE 6' STANDARD, WHERE WALK ABUTS TYPE "AB, D OR F" CURB. WHERE SPEED LIMIT IS 25 MPH OR LESS, WIDTH CAN BE 5'-6".

* SEE SHEET 300.1 "GENERAL NOTES" FOR FURTHER INFORMATION

ALTERNATE SIDEWALK LOCATION



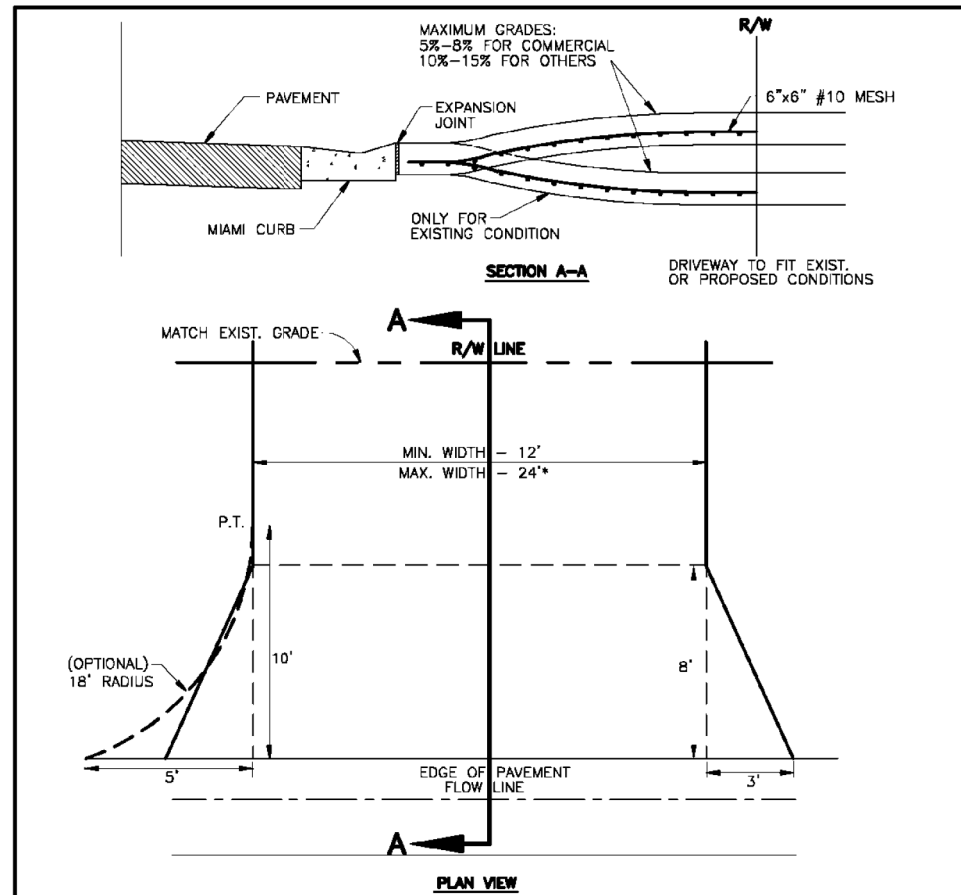
SIDEWALK LOCATION CLOSE TO TREES

MANATEE COUNTY TRANSPORTATION DEPARTMENT		ROAD CONNECTION DETAIL	403.3
REV. BY	DATE		
	6/12/07		
	DATE OF B.O.C.C. APPROVAL		

MANATEE COUNTY TRANSPORTATION DEPARTMENT		TYPE "AB" MODIFIED CURB & GUTTER	201.3
REV. BY	DATE		
	6/12/07		
	DATE OF B.O.C.C. APPROVAL		

MANATEE COUNTY TRANSPORTATION DEPARTMENT		SIDEWALK REQUIREMENTS	301.1
REV. BY	DATE		
	6/12/07		
	DATE OF B.O.C.C. APPROVAL		

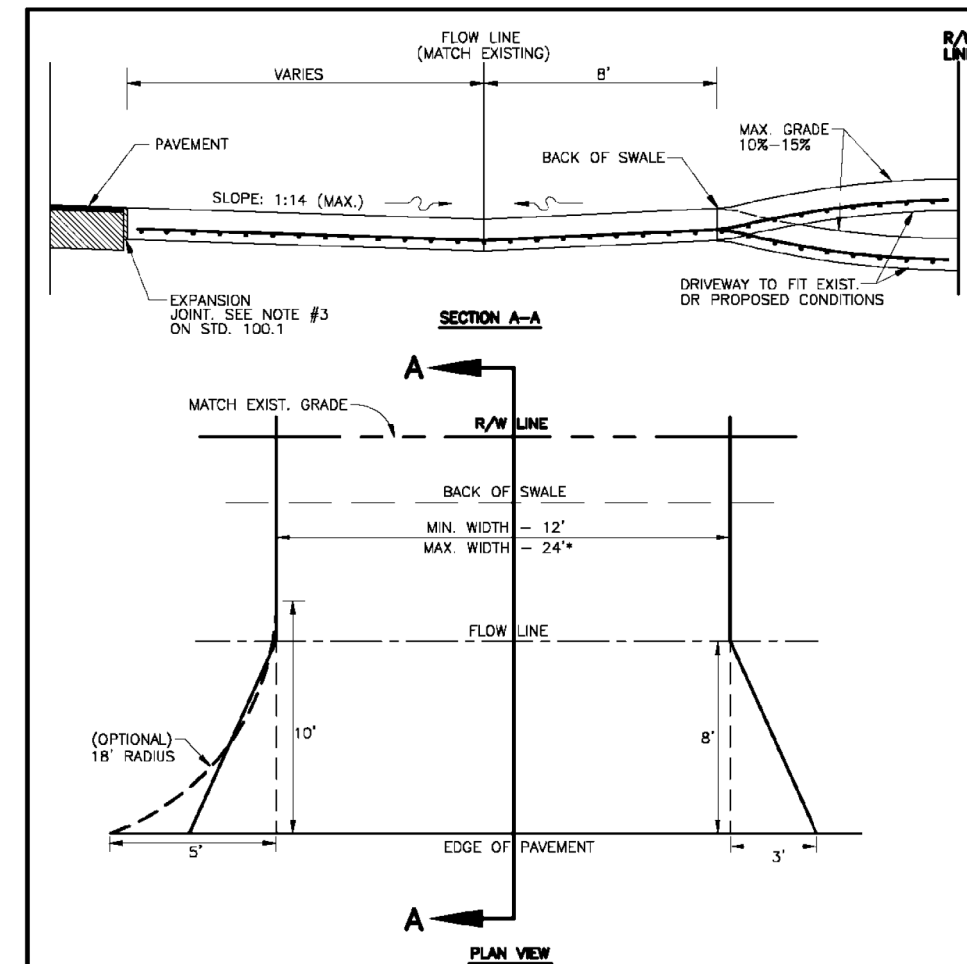
SCALE	AS NOTED	DESIGNED BY	JLS	DATE	09/2019	MANATEE COUNTY PUBLIC WORKS	DESIGN ENGINEER	DETAILS (1)	SHEET NO.	
DRAWN BY	JHC	PROJECT NO.	6045662	FL. LICENSE NO.						
CHECKED BY	TTT	CERTIFICATE OF AUTHORIZATION	4213							
No.	REVISIONS	DATE	BY							DET-1



* For driveways that can demonstrate the need for additional width, the width may not be greater than the LESSER of:
 a.) 30' total at the R/W line
 b.) 30% of the front footage as defined on the survey (or field measurement, 36' max.)

- (A) CONSTRUCT WITH 6" REINFORCED CONCRETE 3000 PSI @ 28 DAYS, 6"x6" #10 WIRE MESH FROM BACK OF CURB TO R/W LINE.
- (B) DRIVEWAYS ADJACENT TO A PAVED ROADWAY MUST HAVE THE APRON CONSTRUCTED IN COMPLIANCE WITH THE NOTE (A) ON PREVIOUS PAGE (STD. 101.0)
- (C) MAINTAIN EXISTING DRAINAGE FLOWLINE. FOR PIPING SPECIFICATIONS REFER TO F.D.O.T. STANDARD SPECIFICATIONS SECTION 430. SEE NOTE 4, PAGE 100.1. SEE SECTION 200- DRAINAGE (STD. 200.0, 202.5).
- (D) 3'x8' FLARE OR 18' RADIUS WITH CURB TRANSITION (TRANSITION FROM TYPE "F" CURB TO MIAMI CURB) SEE STD. 102.2. NO CHANGE WITH 3' VALLEY CROSSINGS - SEE STDS. 201.0, 201.1, 201.2, 201.4, 201.5, 201.6.
- (E) EXPANSION JOINT 0.50" PREFORMED JOINT FILLER OR APPROVED ALTERNATE, DRIVES WIDER THAN 12' (BEYOND FLARE) PLACE JOINT ON 10' CENTER.
- (F) LATERAL ALIGNMENT 45 DEGREES FOR DOUBLE DRIVE PER LOT, 90 DEGREES FOR SINGLE DRIVE, OFF CENTER LINE.

MANATEE COUNTY TRANSPORTATION DEPARTMENT		URBAN DRIVES	101.1
REV. BY	DATE		
	6/12/07		
	DATE OF B.O.C.C. APPROVAL		



* For driveways that can demonstrate the need for additional width, the width may not be greater than the LESSER of:
 a.) 30' total at the R/W line
 b.) 30% of the front footage as defined on the survey (or field measurements, 36' max.)

- (A) CONSTRUCT WITH 6" REINFORCED CONCRETE (3,000 psi @ 28 DAYS) WITH 6"x6" #10 MESH FROM EDGE OF PAVEMENT TO THE RIGHT-OF-WAY LINE.
- (B) DRIVEWAYS ADJACENT TO A PAVED ROADWAY MUST HAVE THE APRON CONSTRUCTED IN COMPLIANCE WITH THE NOTE (A) ABOVE.
- (C) EXISTING DRAINAGE FLOWLINE TO BE MAINTAINED. PIPING MAY BE REQUIRED AT THE COUNTY'S DISCRETION.
- (D) 3'x8' FLARED APRON IS MINIMAL, OR 18' RADIUS.
- (E) ENGINEERING DIVISION MANAGER MAY APPROVE THE USE OF A SWALE DRIVE, IF ON-SITE CONDITIONS ARE FAVORABLE.

MANATEE COUNTY TRANSPORTATION DEPARTMENT		RURAL RESIDENTIAL (SWALE DRIVE)	101.0
REV. BY	DATE		
	6/12/07		
	DATE OF B.O.C.C. APPROVAL		

No.	REVISIONS	DATE	BY	SCALE AS NOTED	DESIGNED BY JLS	DRAWN BY JHC	CHECKED BY TTT	HDR ENGINEERING, INC. 2601 CATTLEMEN ROAD, SUITE 400 SARASOTA, FLORIDA 34232 CERTIFICATE OF AUTHORIZATION 4213	DATE 09/2019	PROJECT NO. 6045662	DESIGN ENGINEER MANATEE COUNTY PUBLIC WORKS	FL. LICENSE NO.	SHEET NO. DET-2
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**MANATEE COUNTY
PUBLIC WORKS DEPARTMENT**

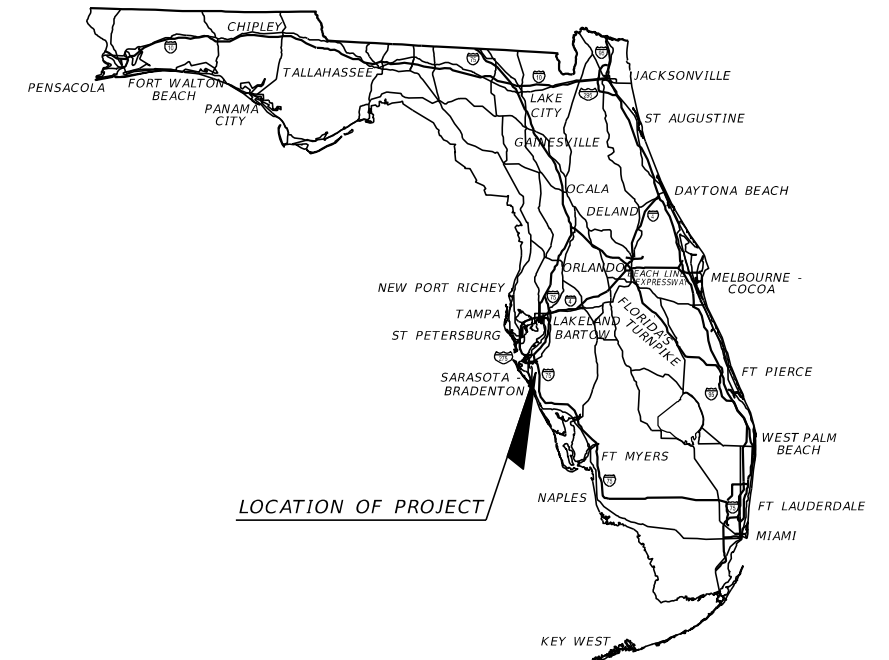
CONTRACT PLANS

**MANATEE COUNTY
PROJECT NUMBER 6045662
44TH AVENUE EAST
PHASE I
FROM 44TH AVENUE PLAZA EAST TO I-75**

SIGNALIZATION PLANS

INDEX OF SIGNALIZATION PLANS

SHEET NO.	SHEET DESCRIPTION
T-1	KEY SHEET
T-2	SIGNATURE SHEET
T-3	TABULATION OF QUANTITIES
T-4	GENERAL NOTES
T-5	PAY ITEM NOTES
T-6 THRU T-7	SIGNALIZATION PLAN
T-8 THRU T-11	ATMS PLAN
T-12	GUIDE SIGN WORKSHEET
T-13	MAST ARM TABULATION
T-14	TRAFFIC MONITORING SITE CROSS SECTION
T-15	CONCRETE APRON DETAILS
T-16	FIBER OPTIC PULL BOX DETAILS
T-17	FIBER OPTIC SPLICE BOX DETAILS
T-18	PEDESTRIAN SIGNAL AND CABINET BASE DETAILS
T-19	GENERATOR CABINET WIRING DIAGRAM
T-20	MVDS SITE INSTALLATION DETAIL
T-21	MVDS BLOCK DIAGRAM
T-22	TYPE 336S CABINET DETAILS
T-23	SIGNAL CABINET WIRING DIAGRAM
T-24	CABLE ROUTE MARKER DETAIL
T-25	SPLICING DIAGRAM
T-26	MAST ARM ASSEMBLY DATA TABLE
T-27 THRU T-28	REPORT OF CORE BORINGS



LOCATION OF PROJECT

**FINAL SUBMITTAL
09/2019**

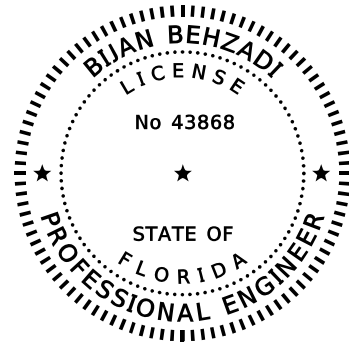
**SIGNALIZATION PLANS
ENGINEER OF RECORD:**

BIJAN BEHZADI, P.E.
P.E. NO.: 43868
HDR ENGINEERING, INC.
2601 CATTLEMEN ROAD, SUITE 400
SARASOTA, FLORIDA 34232
FBPR CERTIFICATE OF AUTHORIZATION NO. 4213
VENDOR NO. 47-0680568
CONTRACT NO. C9480

MANATEE CO. PROJECT MANAGER:
ERIC S. SHROYER, P.E.

FISCAL YEAR	SHEET NO.
19	T-1

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THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY:

ON THE DATE ADJACENT TO THE SEAL.

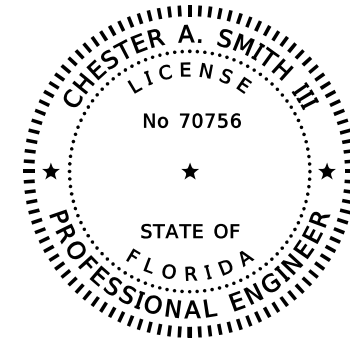
PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

HDR ENGINEERING, INC.
2601 CATTLEMEN ROAD, SUITE 400
SARASOTA, FLORIDA 34232-6212
CERTIFICATE OF AUTHORIZATION NO. 4213
BIJAN BEHZADI, PE NO. 43868

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

SIGNALIZATION PLANS

SHEET NO.	SHEET DESCRIPTION
T-1	KEY SHEET
T-2	SIGNATURE SHEET
T-3	TABULATION OF QUANTITIES
T-4	GENERAL NOTES
T-5	PAY ITEM NOTES
T-6 THRU T-7	SIGNALIZATION PLAN
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T-23	SIGNAL CABINET WIRING DIAGRAM
T-24	CABLE ROUTE MARKER DETAIL
T-25	SPLICING DIAGRAM



THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY:

ON THE DATE ADJACENT TO THE SEAL.

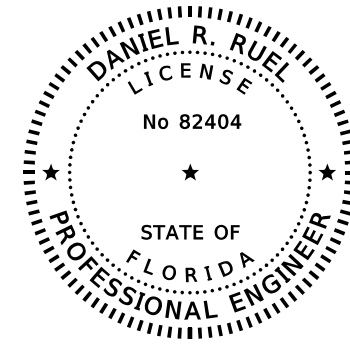
PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

HDR ENGINEERING, INC.
2601 CATTLEMEN ROAD, SUITE 400
SARASOTA, FL 34232-6212
CERTIFICATE OF AUTHORIZATION 4213
CHESTER A. SMITH III, P.E. NO. 70756

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

SIGNALIZATION PLANS

SHEET NO.	SHEET DESCRIPTION
T-2	SIGNATURE SHEET
T-26	MAST ARM ASSEMBLY DATA TABLE



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.

TIERRA, INC.
7351 TEMPLE TERRACE HIGHWAY
TAMPA, FL 33637
CERTIFICATE OF AUTHORIZATION 6486
DANIEL R. RUEL, PE NO. 82404

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

SIGNALIZATION PLANS

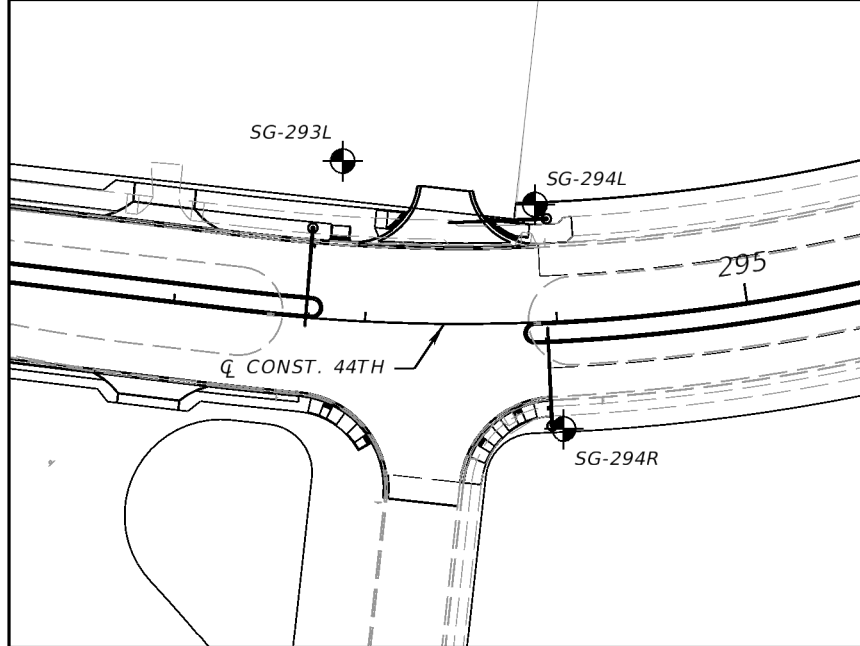
SHEET NO.	SHEET DESCRIPTION
T-2	SIGNATURE SHEET
T-27 THRU T-28	REPORT OF CORE BORINGS

SCALE	AS NOTED	HDR ENGINEERING, INC.	DATE	09/2019	DESIGN ENGINEER	BIJAN BEHZADI	SHEET NO.
DESIGNED BY	BB	2601 CATTLEMEN ROAD, SUITE 400	PROJECT NO.	6045662	FL. LICENSE NO.	43868	T-2
DRAWN BY	GS	SARASOTA, FLORIDA 34232					
CHECKED BY	MO	CERTIFICATE OF AUTHORIZATION 4213					



MANATEE COUNTY PUBLIC WORKS

SIGNATURE SHEET



BORING LOCATION PLAN

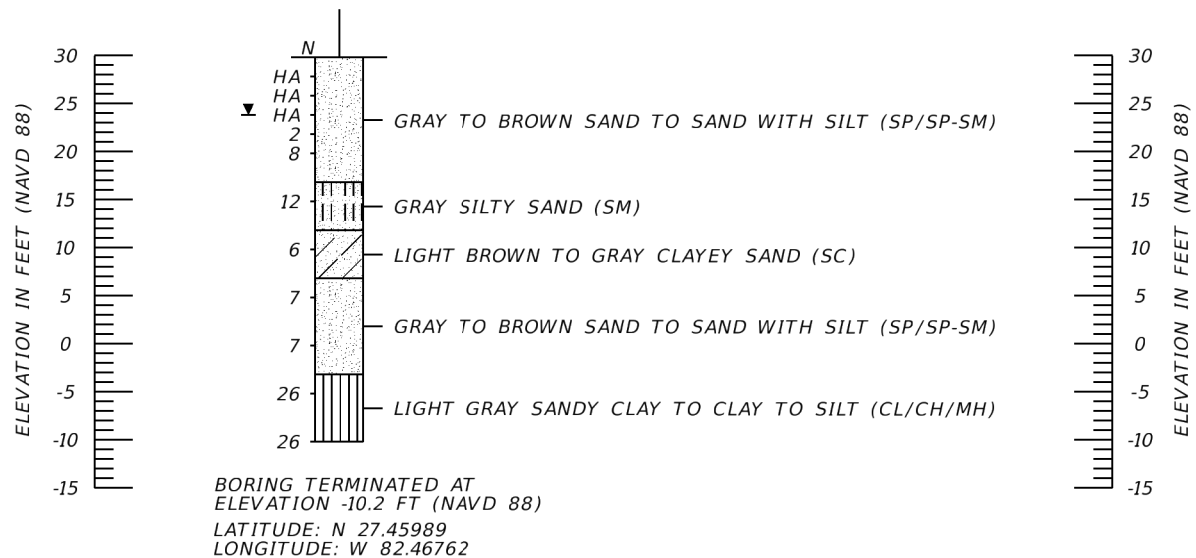
- NOTES:
1. BASED ON A REVIEW OF THE "POTENTIOMETRIC SURFACE OF THE UPPER FLORIDAN AQUIFER, WEST-CENTRAL FLORIDA" MAPS PUBLISHED BY THE USGS WITHIN THE AREA OF THE SIGNAL STRUCTURES, THE POTENTIOMETRIC SURFACE ELEVATION OF THE UPPER FLORIDAN AQUIFER IS ON THE ORDER OF APPROXIMATELY +20 FEET, NGVD 29. THE CONTRACTOR'S TOOLS AND CONSTRUCTION METHODS SHOULD INCLUDE THE ABILITY TO HANDLE A POTENTIOMETRIC HEAD ELEVATION OF +20 FEET, NGVD 29, AT NO ADDITIONAL COST TO THE DEPARTMENT.
 2. TEMPORARY CASING METHODS FOR SHAFT INSTALLATION BEYOND WHAT IS REQUIRED IN THE FDOT SPECIFICATIONS MAY BE REQUIRED IN ORDER TO PREVENT THE COLLAPSE OF THE SANDY SOILS AND/OR GROUNDWATER INTRUSION DURING SHAFT CONSTRUCTION.
 3. BORING LOCATIONS AND ELEVATIONS WERE ESTIMATED USING HAND-HELD GPS DEVICES IN CONJUNCTION WITH PROJECT DESIGN FILES PROVIDED BY HDR AND SHOULD BE CONSIDERED APPROXIMATE.

LEGEND

	GRAY TO BROWN SAND TO SAND WITH SILT (SP/SP-SM)
	GRAY SILTY SAND (SM)
	LIGHT BROWN TO GRAY CLAYEY SAND (SC)
	LIGHT GRAY SANDY CLAY TO CLAY TO SILT (CL/CH/MH)
SP	UNIFIED SOIL CLASSIFICATION SYSTEM (ASTM D 2487) GROUP SYMBOL AS DETERMINED BY VISUAL REVIEW
N	NUMBERS TO THE LEFT OF BORINGS INDICATE SPT VALUE FOR 12 INCHES OF PENETRATION (UNLESS OTHERWISE NOTED).
HA	HAND AUGERED TO VERIFY UTILITY CLEARANCE
NAVD 88	NORTH AMERICAN VERTICAL DATUM OF 1988
	GROUNDWATER LEVEL ENCOUNTERED DURING FIELD EXPLORATIONS

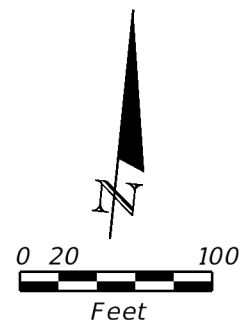
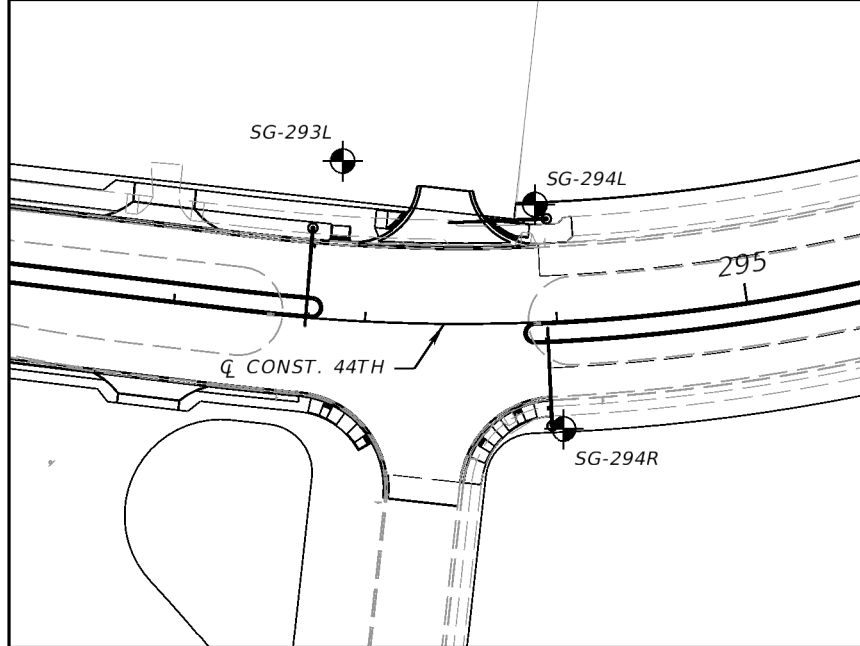
Q CONST. 44TH CENTERLINE CONSTRUCTION OF 44TH AVENUE

BOR # SG-293L
 STA. 292+83
 REF. Q CONST. 44TH
 OFF. 83' LT.
 ELEV. 29.8
 DATE 7/19/2019
 DRILLER A. JACKSON
 HAMMER AUTOMATIC
 RIG D-25



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

SCALE AS NOTED		TIERRA, INC.	DATE 09/2019	MANATEE COUNTY PUBLIC WORKS	DESIGN ENGINEER DANIEL R. RUEL	REPORT OF CORE BORINGS (1)	SHEET NO.
DESIGNED BY DRR		7351 TEMPLE TERRACE HIGHWAY	PROJECT NO. 6045662		FL. LICENSE NO. 82404		T-27
DRAWN BY BJS		TAMPA, FLORIDA 33637					
CHECKED BY DRR		CERTIFICATE OF AUTHORIZATION 6486					
No.	REVISIONS	DATE	BY				



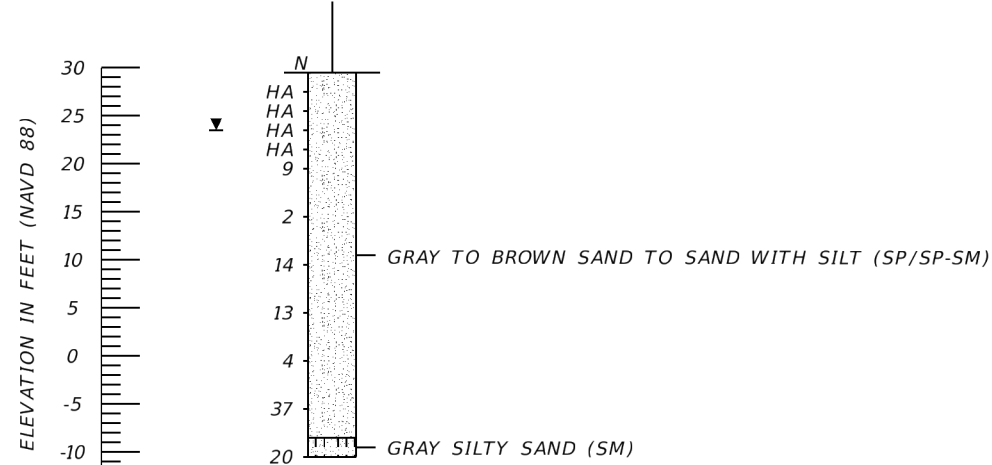
- NOTES:
1. BASED ON A REVIEW OF THE "POTENTIOMETRIC SURFACE OF THE UPPER FLORIDAN AQUIFER, WEST-CENTRAL FLORIDA" MAPS PUBLISHED BY THE USGS WITHIN THE AREA OF THE SIGNAL STRUCTURES, THE POTENTIOMETRIC SURFACE ELEVATION OF THE UPPER FLORIDAN AQUIFER IS ON THE ORDER OF APPROXIMATELY +20 FEET, NGVD 29. THE CONTRACTOR'S TOOLS AND CONSTRUCTION METHODS SHOULD INCLUDE THE ABILITY TO HANDLE A POTENTIOMETRIC HEAD ELEVATION OF +20 FEET, NGVD 29, AT NO ADDITIONAL COST TO THE DEPARTMENT.
 2. TEMPORARY CASING METHODS FOR SHAFT INSTALLATION BEYOND WHAT IS REQUIRED IN THE FDOT SPECIFICATIONS MAY BE REQUIRED IN ORDER TO PREVENT THE COLLAPSE OF THE SANDY SOILS AND/OR GROUNDWATER INTRUSION DURING SHAFT CONSTRUCTION.
 3. BORING LOCATIONS AND ELEVATIONS WERE ESTIMATED USING HAND-HELD GPS DEVICES IN CONJUNCTION WITH PROJECT DESIGN FILES PROVIDED BY HDR AND SHOULD BE CONSIDERED APPROXIMATE.

LEGEND

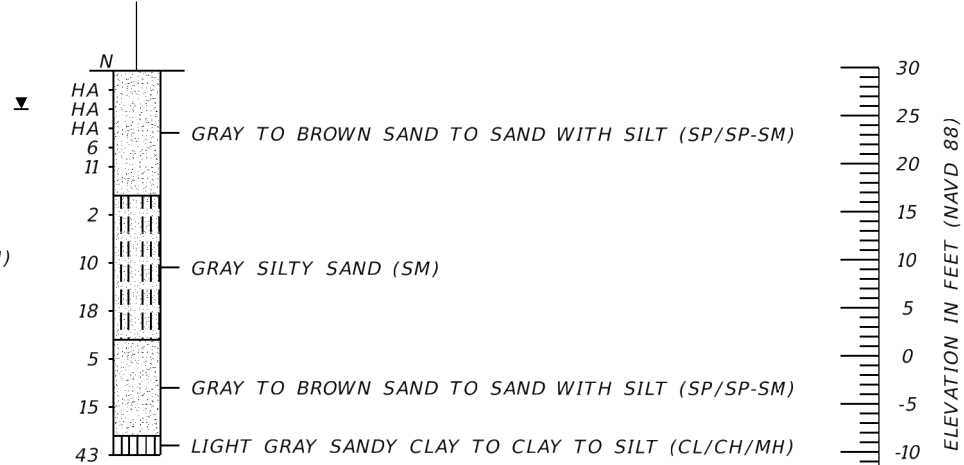
	GRAY TO BROWN SAND TO SAND WITH SILT (SP/SP-SM)
	GRAY SILTY SAND (SM)
	LIGHT BROWN TO GRAY CLAYEY SAND (SC)
	LIGHT GRAY SANDY CLAY TO CLAY TO SILT (CL/CH/MH)
SP	UNIFIED SOIL CLASSIFICATION SYSTEM (ASTM D 2487) GROUP SYMBOL AS DETERMINED BY VISUAL REVIEW
N	NUMBERS TO THE LEFT OF BORINGS INDICATE SPT VALUE FOR 12 INCHES OF PENETRATION (UNLESS OTHERWISE NOTED).
HA	HAND AUGERED TO VERIFY UTILITY CLEARANCE
NAVD 88	NORTH AMERICAN VERTICAL DATUM OF 1988
▼	GROUNDWATER LEVEL ENCOUNTERED DURING FIELD EXPLORATIONS
Q CONST. 44TH	CENTERLINE CONSTRUCTION OF 44TH AVENUE

BORING LOCATION PLAN

BOR # SG-294L
 STA. 293+91
 REF. Q CONST. 44TH
 OFF. 61' LT.
 ELEV. 29.5
 DATE 7/19/2019
 DRILLER A. JACKSON
 HAMMER AUTOMATIC
 RIG D-25



BOR # SG-294R
 STA. 294+01
 REF. Q CONST. 44TH
 OFF. 56' RT.
 ELEV. 29.7
 DATE 7/19/2019
 DRILLER A. JACKSON
 HAMMER AUTOMATIC
 RIG D-25



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

SCALE AS NOTED		TIERRA, INC.	DATE 09/2019	MANATEE COUNTY PUBLIC WORKS	DESIGN ENGINEER DANIEL R. RUEL	<p style="text-align: center;">REPORT OF CORE BORINGS (2)</p>	SHEET NO.
DESIGNED BY DRR		7351 TEMPLE TERRACE HIGHWAY	PROJECT NO. 6045662		FL. LICENSE NO. 82404		T-28
DRAWN BY BJS		TAMPA, FLORIDA 33637	CERTIFICATE OF AUTHORIZATION 6486				
CHECKED BY DRR							
No.	REVISIONS	DATE	BY				