NORTON STREET
ROADWAY AND DRAINAGE IMPROVEMENTS
100% PLANS

TOWN OF LONGBOAT KEY PUBLIC WORKS

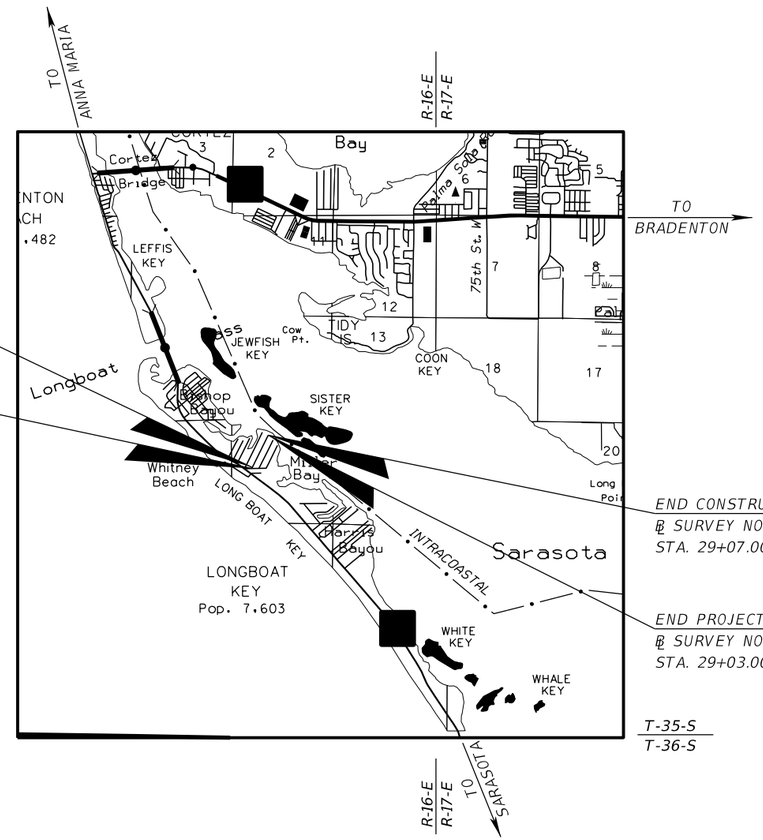
600 GENERAL HARRIS STREET
LONGBOAT KEY, FL 34228
(941) 316-1988

CONTRACT PLANS COMPONENTS

ROADWAY PLANS
EXISTING CONDITIONS LANDSCAPE PLANS
LANDSCAPE RESTORATION PLANS

INDEX OF ROADWAY PLANS

SHEET NO.	SHEET DESCRIPTION
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8	SUMMARY OF DRAINAGE STRUCTURES
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51	EROSION CONTROL DETAIL SHEET
52-54	EROSION CONTROL SHEETS
55	SEAWALL PENETRATION DETAIL



BEGIN PROJECT
℄ SURVEY NORTON STREET
STA. 10+11.00

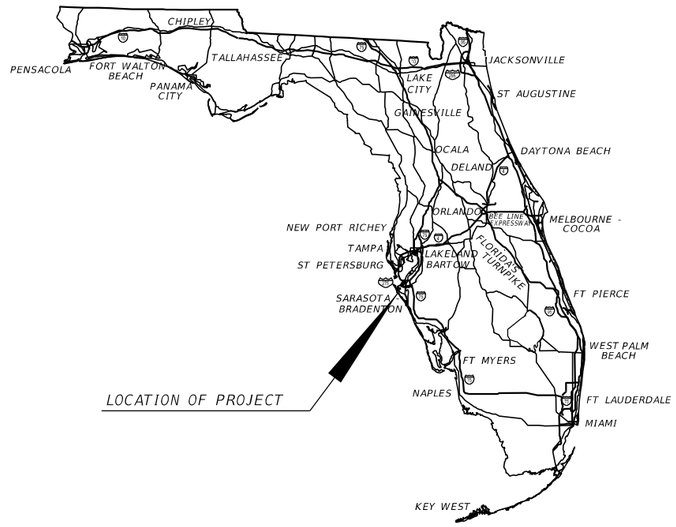
BEGIN CONSTRUCTION
℄ SURVEY NORTON STREET
STA. 9+97.00

END CONSTRUCTION
℄ SURVEY NORTON STREET
STA. 29+07.00

END PROJECT
℄ SURVEY NORTON STREET
STA. 29+03.00

T-35-S
T-36-S

T-35-S
T-36-S



TOWN OF LONGBOAT KEY COMMISSIONERS:

GARY COFFIN	DISTRICT 1
PENNY GOLD	DISTRICT 2
KEN SCHNEIER, MAYOR	DISTRICT 3
DEBRA WILLIAMS, VICE MAYOR	DISTRICT 4
SARAH KARON	DISTRICT 5
B.J. BISHOP	AT-LARGE
STEVE BRANHAM	AT-LARGE

ATTENTION IS DIRECTED TO THE FACT THAT THESE PLANS MAY HAVE BEEN REDUCED IN SIZE BY REPRODUCTION. THIS MUST BE CONSIDERED WHEN OBTAINING SCALE DATA.

GOVERNING STANDARD PLANS:

Florida Department of Transportation, FY 2024-25 Standard Plans for Road and Bridge Construction and applicable Interim Revisions (IRs).

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

GOVERNING STANDARD SPECIFICATIONS:

Florida Department of Transportation, FY 2024-25 Standard Specifications for Road and Bridge Construction at the following website: http://www.fdot.gov/programmanagement/Implemented/SpecBooks

Manatee County, Public Works Utilities Standards Manual (Sept 2023) for all utility work at the following website: https://public-works-standards-public-manateegis.hub.arcgis.com

ROADWAY PLANS ENGINEER OF RECORD:

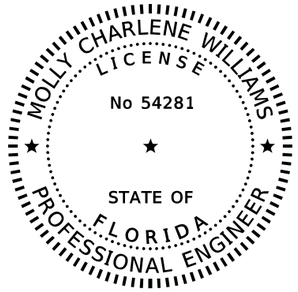
MOLLY CHARLENE WILLIAMS, P.E. NO.: 54281
KIMLEY-HORN AND ASSOCIATES, INC.
1800 SECOND STREET, SUIT 900
SARASOTA, FL 34236
PHONE (941) 379-7600

100% PLANS SUBMITTAL
SEPTEMBER 2025

CONSTRUCTION CONTRACT NO.	FISCAL YEAR	SHEET NO.
T.B.D.	25	

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

K:\SAR_Worksets\FDOT\148800021_Norton\Roadway\KEYSRD01.dgn : #USERS 9/11/202512:28:28 PM



THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY

Molly C Williams

Digitally signed by Molly C Williams
DN: CN=Molly C Williams, dnQualifier=A01410D0000018A6C1540C000030395, O=KIMLEY-HORN AND ASSOCIATES, C=US
Reason: I attest to the accuracy and integrity of this document
Date: 2025.09.12 13:26:22-04'00'

ON THE DATE ADJACENT TO THE SEAL

SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

KIMLEY-HORN & ASSOCIATES, INC.
1800 2ND STREET, SUITE 900
SARASOTA, FL 34236
MOLLY CHARLENE WILLIAMS, P.E. NO. 54281

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

ROADWAY PLANS

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1	KEY SHEET
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51	EROSION CONTROL DETAIL SHEET
52-54	EROSION CONTROL SHEETS
55	SEAWALL PENETRATION DETAIL

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Kimley»Horn

MOLLY CHARLENE WILLIAMS, P.E.
P.E. LICENSE NUMBER: 54281
1800 SECOND STREET, SUITE 900
SARASOTA, FL 34236
(941) 379-7600

TOWN OF LONGBOAT KEY

NORTON STREET

SIGNATURE SHEET

SHEET NO.

ITEM NO.	ITEM DESCRIPTION	UNIT	PROJECT QUANTITY
Roadway			
0101 1	MOBILIZATION (5%)	LS	1
0102 1	MAINTENANCE OF TRAFFIC (5%)	LS	1
0104 10 3	SEDIMENT BARRIER	LF	2660
0104 11	FLOATING TURBIDITY BARRIER	LF	40
0107 1	LITTER REMOVAL	AC	12.7
0107 2	MOWING	AC	12.7
0110 1 1	CLEARING & GRUBBING	AC	1.8
0110 4 10	REMOVAL OF EXISTING CONCRETE	SY	338
0110 7 1	MAILBOX, F&I, SINGLE	EA	44
0120 1	REGULAR EXCAVATION	CY	521
0120 6	EMBANKMENT	CY	226
0121 70	FLOWABLE FILL	CY	6.37
0160 4	TYPE B STABILIZATION	SY	1268
0285 7 11	OPTIONAL BASE, BASE GROUP 11	SY	3812
0327 70 6	MILLING EXIST ASPH PAVT, 1 1/2" AVG DEPTH	SY	3812
0334 1 53	SUPERPAVE ASPHALTIC CONCRETE, TRAFFIC C, PG 76-22	TN	314.5
0520 0000	CONCRETE CURB, 2' VALLEY GUTTER	LF	3733
0520 2100	CONCRETE CURB, RIBBON CURB	LF	72
0570 1 2	PERFORMANCE TURF, SOD	SY	3060
Signing			
0700 1 500	SINGLE COLUMN GROUND SIGN ASSEMBLY, RELOCATE	EA	1
0710 090	PAINTED PAVEMENT MARKINGS - FINAL SURFACE	LS	1
0711 11 125	THERMOPLASTIC, STANDARD, WHITE, SOLID, 24" FOR STOP LINE AND CROSSWALK	LF	10
Drainage			
0425 1521	INLETS, DT BOT, TYPE C,<10'	EA	1
0425 1711	MODIFIED VALLEY GUTTER INLET, <10'	EA	7
0425 1711	MODIFIED VALLEY GUTTER INLET, <10', UTILITY CONFLICT BOX	EA	8
0425 2 41	MANHOLES, P-7, <10'	EA	7
0425 2 43	MANHOLES (PARTIAL)	EA	3
0430 175 118	PIPE CULVERT, OPTIONAL MATERIAL, ROUND, 18" S/CD	LF	325
0430 175 124	PIPE CULVERT, OPTIONAL MATERIAL, ROUND, 24" S/CD	LF	1750
D-001	24" ROUND HDPE PIPE, SDR 11	LF	115
D-002A	SEAWALL PENETRATION (FOR 24" OUTFALL PIPE)	EA	2
D-002B	SEAWALL TIEBACKS/DEADMAN REPLACEMENT	EA	4
D-003	IN-LINE CHECK VALVE - MARINE GRADE STAINLESS STEEL	EA	2
Pump Structure (Future Pumps)			
D-STWW	WET WELL COMPLETE	EA	1
Landscape			
L-001	DRIVEWAY RESTORATION	EA	44
L-002	LANDSCAPE RESTORATION	EA	46
Utilities			
U-WM	POTABLE WATER MAIN ADJSUTMENTS OR RELOCATIONS	EA	9
U-WS	POTABLE WATER SERVICE CONNECTION ADJUSTMENTS	EA	26
U-SS	SANITARY SERVICE CONNECTION ADJUSTMENTS	EA	21

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REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION

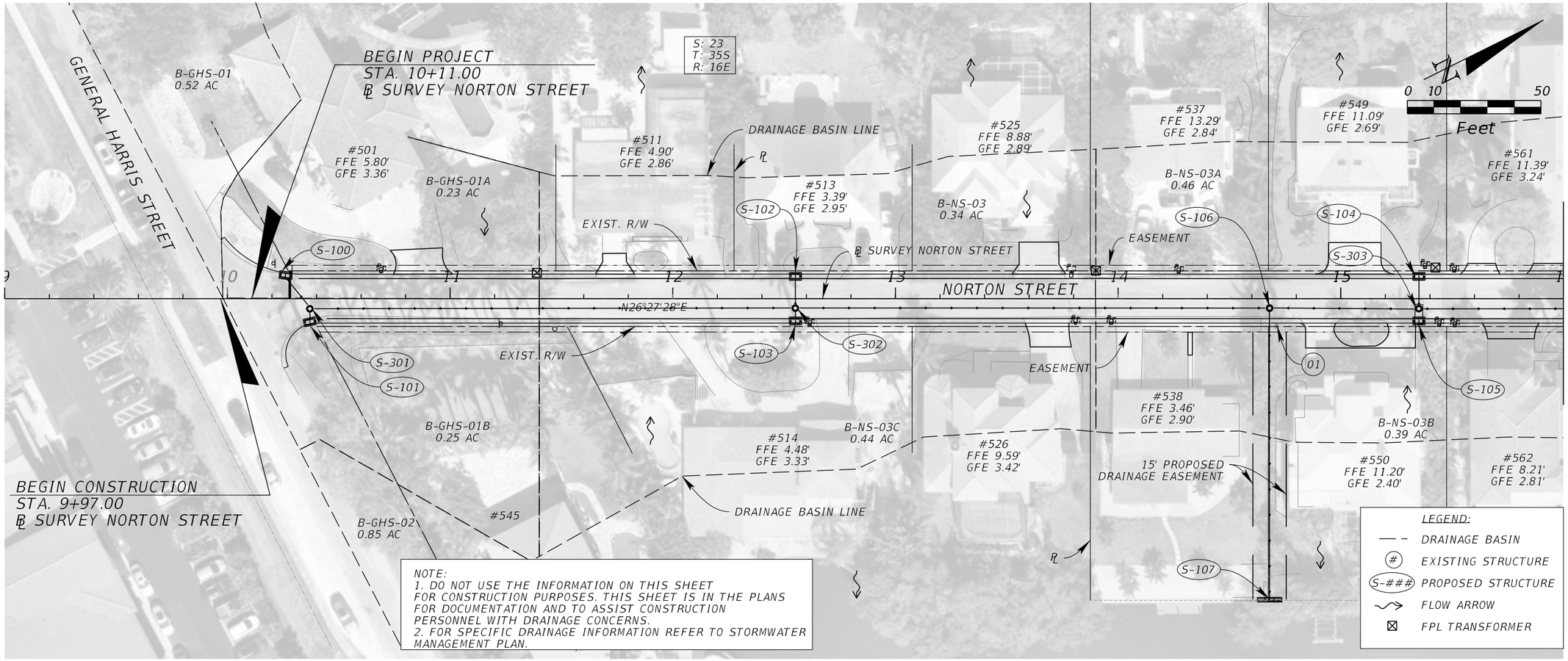
Kimley»Horn
MOLLY CHARLENE WILLIAMS, P.E.
P.E. LICENSE NUMBER: 54281
1800 SECOND STREET, SUITE 900
SARASOTA, FL 34236
(941) 379-7600

TOWN OF LONGBOAT KEY

NORTON STREET

SUMMARY OF PAY ITEMS

SHEET NO.



MATCHLINE STA. 16+00.00

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REVISIONS			
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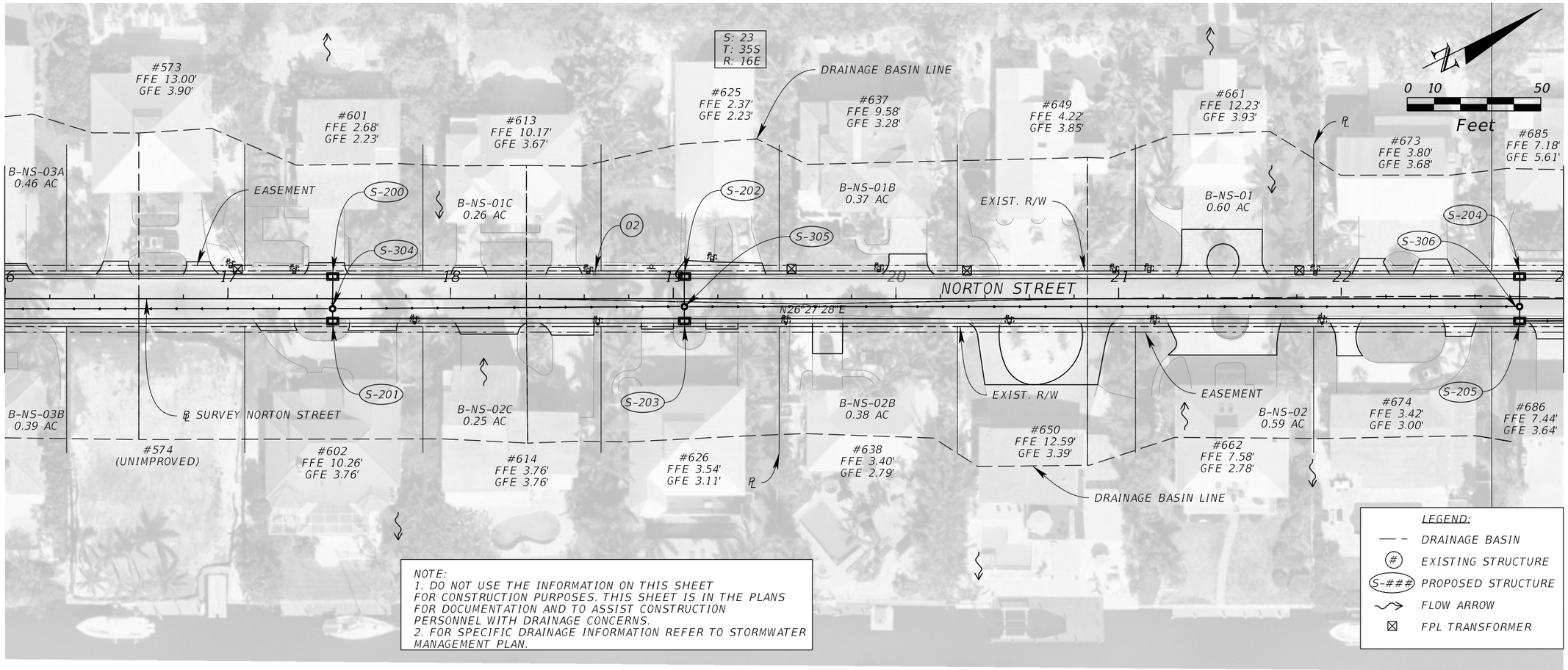
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SARASOTA, FL 34236
(941) 379-7600

TOWN OF LONGBOAT KEY

NORTON STREET

DRAINAGE MAP (1)

SHEET NO.



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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TOWN OF LONGBOAT KEY

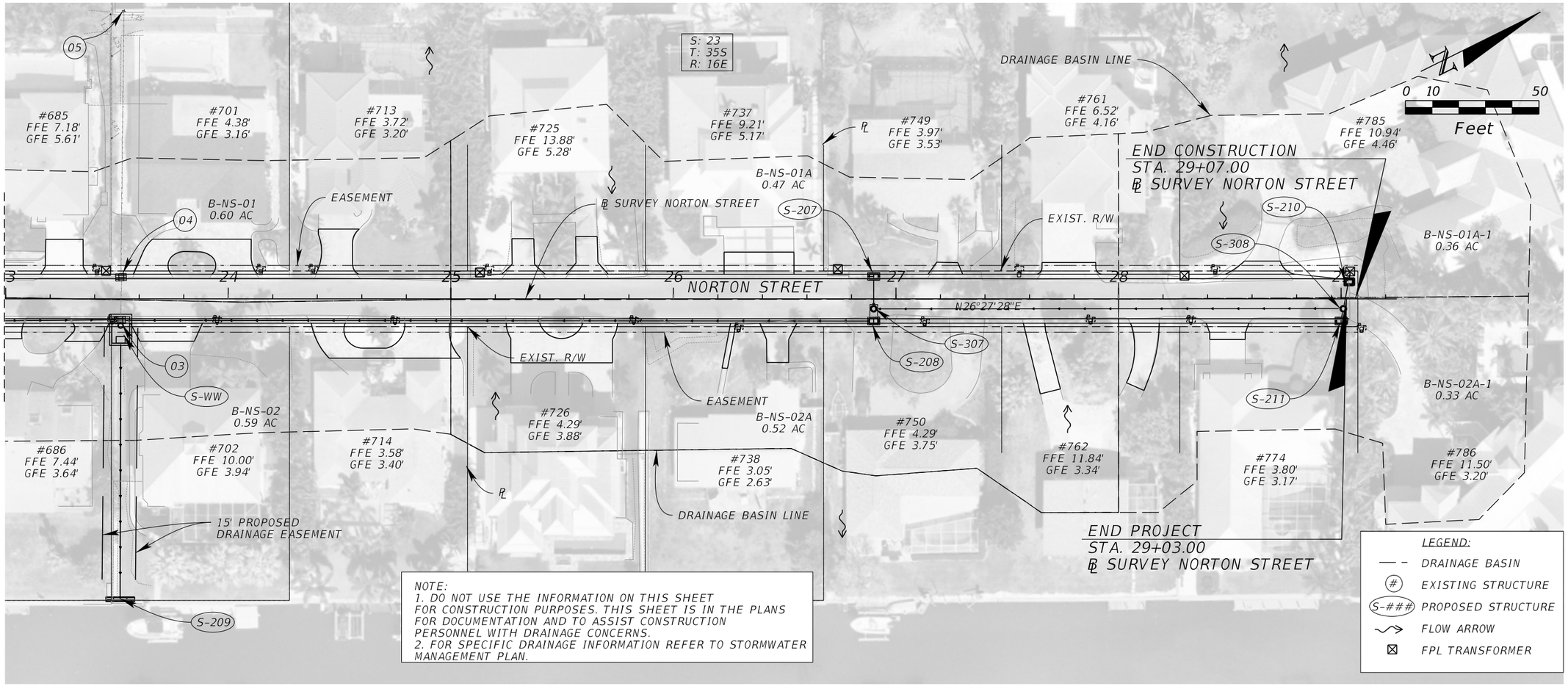
NORTON STREET

DRAINAGE MAP (2)

SHEET NO.

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K:\SAR_Worksets\FDOT\148800021_Norton\Drainage\DRMPRD01.dgn : NORTON SURVEY BASELINE - PLAN 2 [SHEET]
Brandon.Nichols 9/12/2025 10:01:54 AM



NOTE:
1. DO NOT USE THE INFORMATION ON THIS SHEET FOR CONSTRUCTION PURPOSES. THIS SHEET IS IN THE PLANS FOR DOCUMENTATION AND TO ASSIST CONSTRUCTION PERSONNEL WITH DRAINAGE CONCERNS.
2. FOR SPECIFIC DRAINAGE INFORMATION REFER TO STORMWATER MANAGEMENT PLAN.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Kimley»Horn
MOLLY CHARLENE WILLIAMS, P.E.
P.E. LICENSE NUMBER: 54281
1800 SECOND STREET, SUITE 900
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(941) 379-7600

TOWN OF LONGBOAT KEY

NORTON STREET

DRAINAGE MAP (3)

SHEET NO.

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Brandon.Nichols 9/12/2025 10:02:27 AM

EXISTING STRUCTURE INFORMATION

(01) PRIVATE YARD DRAIN
(TO REMAIN)

(02) PRIVATE YARD DRAIN
(TO REMAIN)

(03) GRATE
BK FL -1.12 (15" RCP)
(TO BE REMOVED)

(04) GRATE
AH FL -1.03' (15" RCP)
BK FL -1.05' (12" PVC)
(TO BE REMOVED)

(05) CHECK VALVE
BOTTOM FLAP INV. -1.25'
(TO REMAIN)

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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MOLLY CHARLENE WILLIAMS, P.E.
P.E. LICENSE NUMBER: 54281
1800 SECOND STREET, SUITE 900
SARASOTA, FL 34236
(941) 379-7600

TOWN OF LONGBOAT KEY

NORTON STREET

DRAINAGE STRUCTURE INFORMATION

SHEET NO.

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SUMMARY OF DRAINAGE STRUCTURES

QTY	STR. NO.	STATION	SIDE	DESCRIPTION	BARRELS	SIZE	LENGTH	STORM PIPE (LF)		MANHOLE		DITCH BOTTOM INLET	GUTTER INLET		BOX STRUCTURE	ENDWALL	SOD (SY)	REMARKS
								18"	24"	P-7 (<10')	MANHOLE TOP (2' DIA.)	C (<10')	VALLEY (MOD.) P-BOTTOM	VALLEY (MOD.) J-BOTTOM	WET WELL 8'x12'	24"		
P	S-100	10+26.00	LT	MODIFIED VALLEY GUTTER INLET	1	18"	16	16					1					P-BOTTOM (4.0' DIA.)
F																		
P	S-101	10+37.00	RT	MODIFIED VALLEY GUTTER INLET	1	18"	3	3					1					P-BOTTOM (4.0' DIA.)
F																		
P	S-102	12+55.00	LT	MODIFIED VALLEY GUTTER INLET	1	18"	11	11					1					P-BOTTOM (3.5'X3.5'), UTILITY CONFLICT BOX
F																		
P	S-103	12+55.00	RT	MODIFIED VALLEY GUTTER INLET	1	18"	3	3					1					P-BOTTOM (3.5'X3.5')
F																		
P	S-104	15+35.00	LT	MODIFIED VALLEY GUTTER INLET	1	18"	12	12						1				J-BOTTOM (5.0'X3.5' OFFSET LT), UTILITY CONFLICT BOX
F																		
P	S-105	15+35.00	RT	MODIFIED VALLEY GUTTER INLET	1	24"	64		64					1				J-BOTTOM (9.0'X3.5' OFFSET LT), UTILITY CONFLICT BOX
F																		
P	S-106	14+68.00	RT	MANHOLE	1	24"	130		130	1								P-BOTTOM (3.5'X3.5')
F																		
P	S-107	14+68.00	RT	SEAWALL	1	24"	130									1		SEAWALL PENETRATION (SEE DETAIL)
F																		
P	S-200	17+47.00	LT	MODIFIED VALLEY GUTTER INLET	1	18"	12	12						1				J-BOTTOM (5.0'X3.5' OFFSET LT), UTILITY CONFLICT BOX
F																		
P	S-201	17+47.00	RT	MODIFIED VALLEY GUTTER INLET	1	18"	3	3					1					P-BOTTOM (3.5'X3.5')
F																		
P	S-202	19+05.00	LT	MODIFIED VALLEY GUTTER INLET	1	18"	11	11					1					P-BOTTOM (3.5'X3.5')
F																		
P	S-203	19+05.00	RT	MODIFIED VALLEY GUTTER INLET	1	18"	4	4						1				J-BOTTOM (4.0'X3.5' OFFSET RT), UTILITY CONFLICT BOX
F																		
P	S-204	22+80.00	LT	MODIFIED VALLEY GUTTER INLET	1	18"	11	11						1				J-BOTTOM (4.0'X3.5' OFFSET LT), UTILITY CONFLICT BOX
F																		
P	S-205	22+80.00	RT	MODIFIED VALLEY GUTTER INLET	1	24"	68		68					1				J-BOTTOM (5.0'X3.5' OFFSET RT), UTILITY CONFLICT BOX
F																		
P	S-207	26+90.00	LT	MODIFIED VALLEY GUTTER INLET	1	18"	12	12					1					P-BOTTOM (3.5'X3.5' OFFSET RT)
F																		
P	S-208	26+90.00	RT	MODIFIED VALLEY GUTTER INLET	1	24"	335		335					1				J-BOTTOM (9.0'X3.5' OFFSET LT), UTILITY CONFLICT BOX
F																		
P	S-209	23+51.50	RT	SEAWALL	1	24"	115									1		SEAWALL PENETRATION (SEE DETAIL)
F																		
P	S-210	29+04.00	LT	DBI TYPE C	1	18"	10	10				1					8	
F																		
P	S-211	29+00.00	RT	MODIFIED VALLEY GUTTER INLET	1	18"	3	3					1					P-BOTTOM (3.5'X3.5')
F																		
P	S-301	10+37.00	RT	MANHOLE	1	18"	214	214		1								P-BOTTOM (4.0' DIA.)
F																		
P	S-302	12+55.00	RT	MANHOLE	1	24"	209		209	1								P-BOTTOM (3.5'X3.5')
F																		
P	S-303	15+35.00	RT	MANHOLE (PARTIAL)							1							MANHOLE TOP ONLY
F																		
P	S-304	17+47.00	RT	MANHOLE	1	24"	154		154	1								P-BOTTOM (3.5'X3.5')
						24"	208		208									
F																		
P	S-305	19+05.00	RT	MANHOLE	1	24"	371		371	1								P-BOTTOM (3.5'X3.5')
F																		
P	S-306	22+80.00	RT	MANHOLE	1	24"	4		4	1								P-BOTTOM (3.5'X3.5')
F																		
P	S-307	26+90.00	RT	MANHOLE (PARTIAL)							1							MANHOLE TOP ONLY
F																		
P	S-308	29+01.00	RT	MANHOLE	1	24"	207		207	1								P-BOTTOM (4.0' DIA.)
F																		
P	S-WW	23+51.72	RT	8' x 12' WET WELL	1	24"	115		115		1				1			HDPE PIPE, UTILITY CONFLICT BOX W/ ACCESS HATCH
F																		
PROJECT TOTALS - PLAN QUANTITY								325	1865	7	3	1	8	7	1	2	8	
PROJECT TOTALS - FINAL QUANTITY																		

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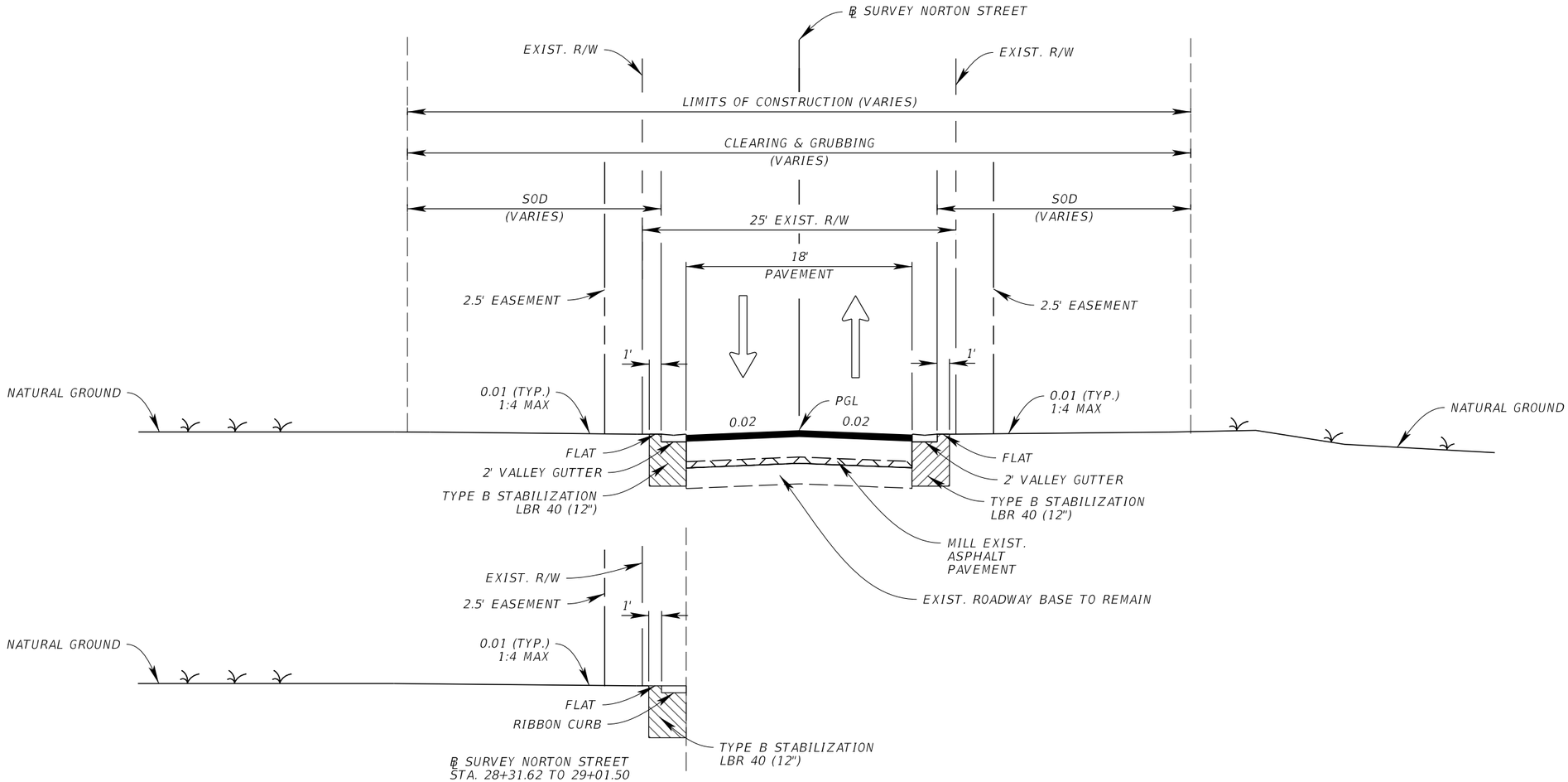
Kimley»Horn
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P.E. LICENSE NUMBER: 54281
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SARASOTA, FL 34236
(941) 379-7600

TOWN OF LONGBOAT KEY

NORTON STREET

SUMMARY OF DRAINAGE STRUCTURES

SHEET NO.



TYPICAL SECTION
NORTON STREET
STA. 9+97.00 TO STA. 29+07.00

DESIGN SPEED = 20 MPH
POSTED SPEED = 20 MPH

TRAVEL LANES

MILL 1.5" EXISTING ASPHALT
*VARIABLE DEPTH OPTIONAL BASE GROUP 11
TYPE SP STRUCTURAL COURSE (1.5")

*SEE GENERAL NOTES FOR PAY ITEM NOTE REGARDING OPTIONAL BASE GROUP 11

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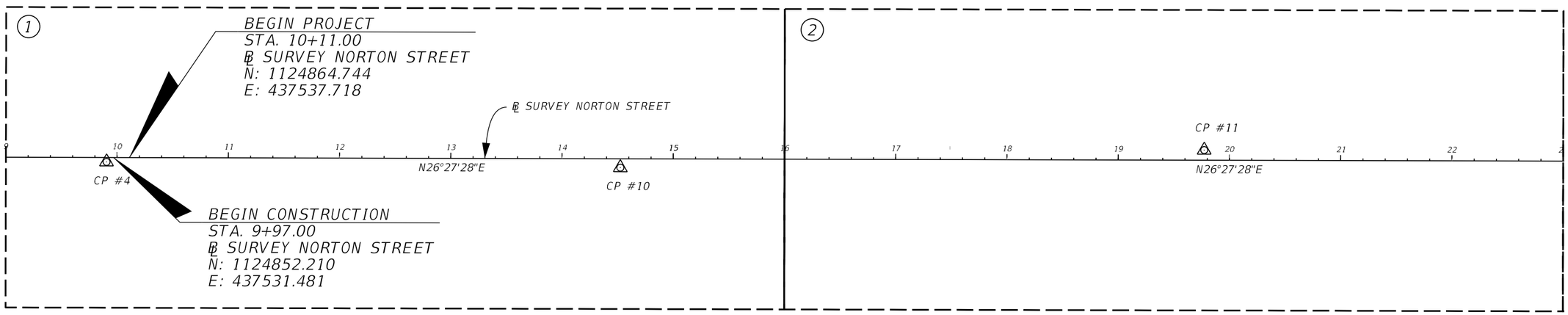
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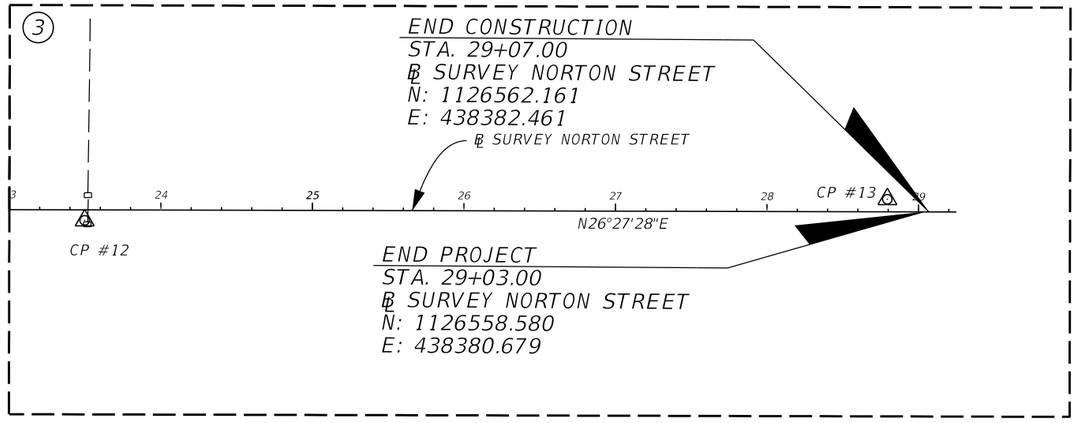
TOWN OF LONGBOAT KEY

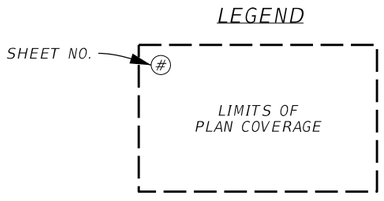
NORTON STREET

TYPICAL SECTION

SHEET NO. 9









NOTES:

1. THIS SURVEY IS REFERENCED TO A PROJECTION OF THE STATE PLANE COORDINATE SYSTEM OF FLORIDA WEST ZONE (NAD 1983/2011 ADJUSTMENT).

2. THE FOLLOWING NGS VERTICAL CONTROL POINTS WERE RECOVERED AND UTILIZED FOR THE ELEVATIONS INDICATED HEREON:
"GIS 086" NAVD 88 EL 5.04' "Z 689" NAVD 88 ELEVATION 6.47' "W 689" NAVD 88 ELEVATION 4.55'.

3. THIS SURVEY IS SUBJECT TO PERTINENT EASEMENTS, RIGHTS-OF-WAY AND RESTRICTIONS OF RECORD, IF ANY.

4. THIS DRAWING IS NOT A BOUNDARY SURVEY.

5. THIS SURVEY DRAWING WAS PREPARED FOR THE EXCLUSIVE USE OF THE PARTY OR PARTIES CERTIFIED TO FOR THE EXPRESS PURPOSE STATES HEREIN AND/OR CONTAINED IN THE CONTRACT BETWEEN HYATT SURVEY SERVICES, INC. AND THE CLIENT FOR THIS PROJECT. COPYING, DISTRIBUTING AND/OR USING THIS DRAWING IN WHOLE OR IN PART FOR ANY PURPOSE OTHER THAN ORIGINALLY INTENDED WITHOUT WRITTEN CONSENT FROM HYATT SURVEY SERVICES, INC. IS STRICTLY PROHIBITED AND RENDERS THE SURVEYOR'S CERTIFICATION, SIGNATURE, AND SEAL NULL AND VOID. ANY QUESTIONS CONCERNING THE CONTENT OR PURPOSE OF THIS DRAWING SHOULD BE DIRECTED TO HYATT SURVEY SERVICES, INC.

SITE CONTROL:

DESIGNATION	NORTHING	EASTING	ELEVATION
CP #4 (ND LB 021)	1124844.57	437532.18	2.11'
CP #10 (ND LB 7203)	1125256.28	437741.50	1.69'
CP #11 (ND LB 7203)	1125733.92	437960.07	1.72'
CP #12 (ND LB 7203)	1126060.22	438140.46	1.12'
CP #13 (ND LB 7203)	1126541.13	438362.63	1.86'

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Kimley»Horn
MOLLY CHARLENE WILLIAMS, P.E.
P.E. LICENSE NUMBER: 54281
1800 SECOND STREET, SUITE 900
SARASOTA, FL 34236
(941) 379-7600

TOWN OF LONGBOAT KEY

NORTON STREET

PROJECT LAYOUT & CONTROL

SHEET NO.
10

GENERAL NOTES

1. ALL SURVEY INFORMATION WAS OBTAINED FROM A LICENSED FLORIDA PROFESSIONAL SURVEYOR AND MAPPER AND UTILIZED AS SUPPORTING DATA IN THE PRODUCTION OF DESIGN PLANS AND FOR CONSTRUCTION ON SUBJECT PROJECT. THE PROFESSIONAL SURVEYOR AND MAPPER OF RECORD IS:

   RUSSELL P. HYATT, P.S.M.

   P.S.M. NO: 5303

   HYATT SURVEY SERVICES, INC.

   2012 LENA ROAD, BRADENTON, FL 34211

2. UTILITY/AGENCY OWNERS FOR THIS PROJECT INCLUDE:

COMPANY	CONTACT	TELEPHONE NUMBERS	EMAILS
COMCAST	KEVIN MURPHY	941-356-1489	kevin_murphy4@comcast.com
FLORIDA POWER AND LIGHT	BRIAN GARVER	941-723-4442	brian.garver@fpl.com
FRONTIER COMMUNICATIONS	DENISE HUTTON	941-906-6722	denise.hutton@ftr.com
MCI / VERIZON	MICHAEL KROL	813-410-4803	michael.krol@verizon.com
TECO PEOPLES GAS	ALEX MCFARLANE	813-275-3762	amcfarlane@tecoenergy.com
TOWN OF LONGBOAT KEY	JESSIE CAMBURN	941-316-1988	jcamburn@longboatkey.org

3. COORDINATE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEMS (NPDES) DEWATERING ACTIVITIES THROUGH THE PROJECT ENGINEER, DISTRICT CONTAMINATION IMPACT COORDINATOR, AND CONTAMINATION ASSESSMENT & REMEDIATION CONTRACTOR TO ENSURE COMPLIANCE WITH THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION AND WATER MANAGEMENT DISTRICT. SEE PROJECT'S CONTAMINATION MEMORANDUM.

4. ALL EXISTING DRAINAGE STRUCTURES WITHIN THE RIGHT-OF-WAY SHALL REMAIN UNLESS SHOWN ON THE PLANS TO BE REMOVED.

5. REPLACE EXISTING DRIVEWAY MATERIAL WITH EQUIVALENT MATERIAL TYPE IN IMPACTED AREAS AS SHOWN ON PLANS.

6. ALL HDPE PIPE CONSTRUCTED BETWEEN THE PROPOSED WET WELL AND THE PROPOSED OUTFALL MUST BE DR-11.

7. ALL ELEVATIONS SHOWN IN THE PLAN SET ARE RELATIVE TO THE NAVD88 VERTICAL DATUM

8. THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED ON THIS PROJECT. CONTRACTOR'S BID SHALL INCLUDE CONSIDERATION FOR THIS ISSUE. WHEN PERFORMING GRADING OPERATIONS DURING PERIODS OF WET WEATHER, PROVIDE ADEQUATE DEWATERING, DRAINAGE AND GROUND WATER MANAGEMENT TO CONTROL MOISTURE OF SOILS.

9. CONSTRUCTION DEWATERING SHALL BE CONDUCTED IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL REQUIREMENTS INCLUDING BUT NOT LIMITED TO CHAPTERS 62-621.300 AND 62-620 OF THE FLORIDA ADMINISTRATIVE CODE (FAC).

PAY ITEM NOTES

0285-7-11 OPTIONAL BASE GROUP 11:	DEPTH OF BASE MATERIAL VARIES THROUGHOUT THE PROJECT LIMITS BASED ON THE PROFILE. BASE GROUP 11 IS USED BECAUSE IT REPRESENTS THE DEEPEST AREA NEEDED FOR BASE MATERIAL.THE COST ASSOCIATED WITH THIS PAY ITEM IS BASED ON AVERAGE DEPTH OF BASE MATERIAL THROUGHOUT THIS PROJECT.
0120-70 FLOWABLE BACKFILL:	TO BE PLACED BETWEEN STORMWATER STRUCTURES WHERE SPACE IS LIMITED AND MEETING COMPACTION REQUIREMENTS MAY NOT BE ACHIEVED. LOCATIONS NOTED ON PLAN SHEETS

UTILITY CONFLICT BOXES

1. NO CONDUIT JOINTS SHALL BE WITHIN THE DRAINAGE STRUCTURE BOX.

2. ALL SPECIFIED UTILITY CONFLICT BOXES ARE TO ADDRESS CONFLICTS WITH BURIED ELECTRIC LINES OWNED BY FLORIDA POWER AND LIGHT (FPL). ALL OTHER UTILITIES ARE TO BE AVOIDED OR RELOCATED AS SPECIFIED IN THE UTILITY ADJUSTMENT SHEETS.

DELEGATED DESIGN

DD-1 DELEGATED ENGINEER:
A. DEFINITION - A FLORIDA PROFESSIONAL ENGINEER WHO UNDERTAKES A SPECIALTY SERVICE AND PROVIDES SERVICES OR CREATIVE WORK (DELEGATED ENGINEERING DOCUMENT) REGARDING A PORTION OF THE ENGINEERING PROJECT. THE DELEGATED ENGINEER IS THE ENGINEER OF RECORD FOR THAT PORTION OF THE ENGINEERING PROJECT.
B. SHALL BE: (1) AN INDEPENDENT CONSULTANT, (2) AN EMPLOYEE OR OFFICER OF AN ENTITY SUPPLYING COMPONENTS TO A FABRICATOR OR CONTRACTOR, SO LONG AS THE ENGINEER ACTS AS AN INDEPENDENT CONSULTANT OR THROUGH A DULY QUALIFIED ENGINEERING CORPORATION, OR (3) AN EMPLOYEE OR OFFICER OF A FABRICATOR OR CONTRACTOR, SO LONG AS THE ENGINEER ACTS AS AN INDEPENDENT CONSULTANT OR THROUGH A DULY QUALIFIED ENGINEERING CORPORATION.

DD-2 SUBMITTALS FOR CUSTOM DESIGNED, MANUFACTURED OR FABRICATED LOAD-CARRYING ITEMS AND CUSTOM FABRICATED ITEMS WHICH ARE REQUIRED BY CODES OR STANDARDS TO RESIST FORCES AND STRESSES, INCLUDING THEIR CONNECTIONS, ANCHORAGES AND ATTACHMENTS REQUIRE A DELEGATED ENGINEER.

DD-3 AS A MINIMUM, THE FOLLOWING SYSTEMS AND COMPONENTS REQUIRE FABRICATION AND ERECTION DRAWINGS WITH INPUT BY A DELEGATED ENGINEER:
A. OUTFALL PENETRATION THROUGH SEAWALL
B. TEMPORARY SEAWALL SHORING
C. TIEBACK AND DEADMAN REPLACEMENT
D. STORMWATER WET WELL
E. ACCESS HATCH
F. TRASH RACK

DD-4 FOR EACH CATEGORY OF SUBMITTALS REQUIRING INPUT FROM A DELEGATED ENGINEER, THE CONTRACTOR SHALL ATTACH TO THE FIRST SUBMITTAL A SIGNED AND SEALED LETTER FROM THE RESPONSIBLE DELEGATED ENGINEER STATING "I CERTIFY THAT THE DESIGN AND DRAFTING OF THE SHOP DRAWINGS WHICH ARE SIGNED AND SEALED BY ME WERE PREPARED UNDER MY DIRECT SUPERVISION AND CONTROL, AND TO THE BEST OF MY KNOWLEDGE, THE SHOP DRAWINGS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES AND THE CONTRACT DOCUMENTS."

DD-5 SUBMITTALS SHALL CLEARLY IDENTIFY THE SPECIFIC PROJECT AND APPLICABLE CODES, LIST THE DESIGN CRITERIA, AND SHOW ALL DETAILS AND PLANS NECESSARY FOR PROPER FABRICATION AND INSTALLATION. CALCULATIONS AND SHOP DRAWINGS SHALL IDENTIFY SPECIFIC PRODUCTS UTILIZED. GENERIC PRODUCTS WILL NOT BE ACCEPTED.

DD-6 SHOP DRAWINGS AND CALCULATIONS REQUIRE THE IMPRESSED SEAL, DATE AND SIGNATURE OF THE DELEGATED ENGINEER. COMPUTER PRINTOUTS ARE AN ACCEPTABLE SUBSTITUTE FOR MANUAL COMPUTATIONS PROVIDED THEY ARE ACCOMPANIED BY SUFFICIENT DESCRIPTIVE INFORMATION TO PERMIT THEIR PROPER EVALUATION. SUCH DESCRIPTIVE INFORMATION SHALL BEAR THE IMPRESSED SEAL AND SIGNATURE OF THE DELEGATED ENGINEER AS AN INDICATION THAT HE HAS ACCEPTED RESPONSIBILITY FOR THE RESULTS. IF ACCOMPANYING SIGNED AND SEALED BLUELINE PRINTS ARE PROVIDED, SEPIAS DO NOT REQUIRE SIGNATURE AND SEAL. THE ENGINEER WILL RETAIN 2 SIGNED AND SEALED BLUELINE PRINTS FOR HIS RECORDS.

DD-7 CALCULATIONS ARE THE SOLE RESPONSIBILITY OF THE DELEGATED ENGINEER. CALCULATIONS ARE SUBMITTED TO THE ENGINEER FOR THEIR RECORDS.

DD-8 CATALOG INFORMATION ON STANDARD PRODUCTS ("CUT SHEETS") DOES NOT REQUIRE THE SEAL OF A DELEGATED ENGINEER.

DD-9 REVIEW BY THE PROJECT ENGINEER OF RECORD OF SUBMITTALS IS LIMITED TO VERIFYING THE FOLLOWING:

A. THAT THE SPECIFIED STRUCTURAL SUBMITTALS HAVE BEEN FURNISHED.
B. THAT THE STRUCTURAL SUBMITTALS HAVE BEEN SIGNED AND SEALED BY THE DELEGATED ENGINEER.
C. THAT THE DELEGATED ENGINEER HAS UNDERSTOOD THE DESIGN INTENT AND HAS USED THE SPECIFIED STRUCTURAL CRITERIA. (NO DETAILED CHECK OF DIMENSIONS OR QUANTITIES WILL BE MADE.)

DD-10 SUBMITTALS NOT MEETING THE ABOVE CRITERIA, OR SUBMITTED AFTER FABRICATION, WILL NOT BE REVIEWED.

SHOP DRAWINGS FOR SUBMITTALS FOR STORMWATER WET WELL:

A. PLANS WERE DEVELOPED FOR THE PROPOSED KEY JOINT CONFIGURATIONS. THE CONTRACTOR HAS THE OPTION TO PROPOSE ADDITIONAL JOINTS TO FACILITATE CONSTRUCTION AND HANDLING OF THE STRUCTURES. ANY MODIFICATIONS TO THE DETAILS SHOWN IN THE PLANS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL, INCLUDING SIGNED AND SEALED CALCULATIONS BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF FLORIDA. SEE SHOP DRAWING REQUIREMENTS BELOW.

B. SUBMIT SHOP DRAWINGS FOR STORMWATER WET WELL STRUCTURE ONLY AFTER SHOP DRAWINGS FOR ACCESS HATCHES HAVE BEEN APPROVED.

C. SHOP DRAWING REQUIREMENTS FOR STORMWATER WET WELL STRUCTURE:

1. THE PRECASTER SHALL PROVIDE DESIGN CALCULATIONS SIGNED AND SEALED BY A STRUCTURAL ENGINEER REGISTERED IN THE STATE OF FLORIDA. DESIGN CALCULATIONS SHALL INCLUDE CALCULATIONS FOR THE PROPOSED LIFTING DEVICES AND CHECKING THE PRECAST ELEMENTS FOR HANDLING AND ERECTION LOADING USING THE "NO CRACKING" CRITERIA.

2. THE PRECASTER SHALL PROVIDE STRUCTURAL DRAWINGS SIGNED AND SEALED BY A STRUCTURAL ENGINEER REGISTERED IN THE STATE OF FLORIDA. EACH DRAWING SHALL BE SIGNED AND SEALED BY THE SAME STRUCTURAL ENGINEER.

3. THE DESIGN CRITERIA SHALL BE CLEARLY SHOWN ON THE PLANS PROVIDED BY THE PRECASTER'S STRUCTURAL ENGINEER.

4. PROVIDE DRAWINGS THAT SHOW, BUT NOT LIMITED TO THE FOLLOWING:

   a. STRUCTURE DIMENSIONS INCLUDING LOCATION AND SIZE AND LOCATION OF OPENINGS.
   b. REINFORCING INCLUDING ADDITIONAL REINFORCING AROUND OPENINGS.
   c. COVER TO THE PROPOSED REINFORCEMENT.
   d. HATCHES AND COVERS.
   e. PROPOSED LIFTING DEVICES (LOOPS, INSERTS, ETC). ALL EXPOSED LOOPS TO BE REMOVED AND PATCHED WITH FDOT APPROVED EPOXY MATERIAL.
   f. ADDITIONAL REINFORCEMENT REQUIRED FOR HANDLING AND ERECTION LOADING.
   g. DETAILS FOR JOINT SEALING.

REVISIONS			
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MOLLY CHARLENE WILLIAMS, P.E.
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(941) 379-7600

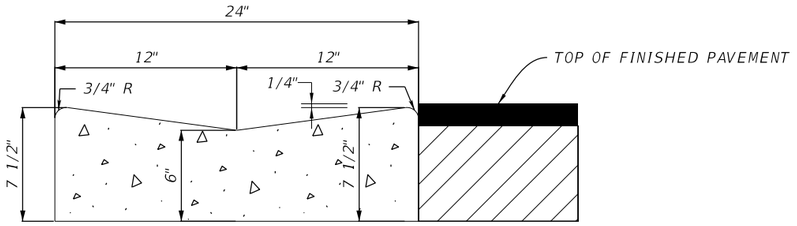
TOWN OF LONGBOAT KEY

NORTON STREET

GENERAL NOTES

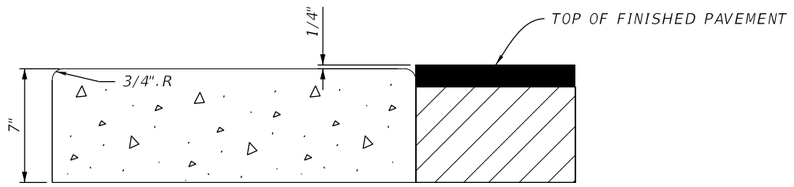
SHEET NO.

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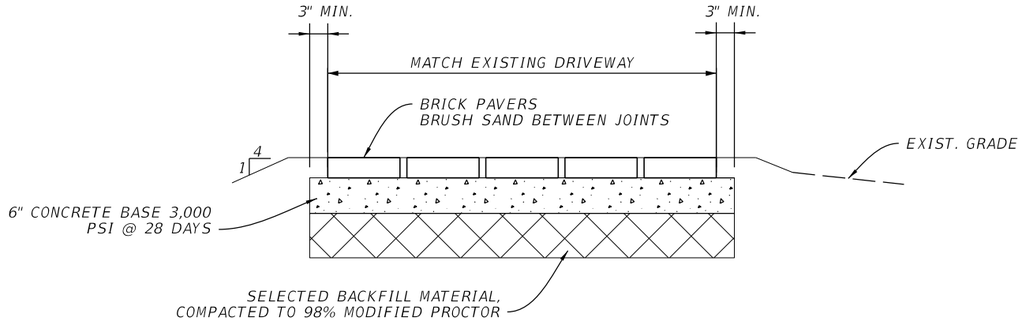
2' VALLEY CURB DETAIL

SECTION VIEW
N.T.S.



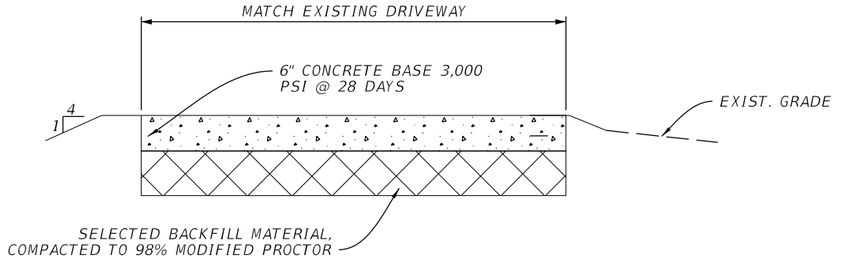
RIBBON CURB DETAIL

SECTION VIEW
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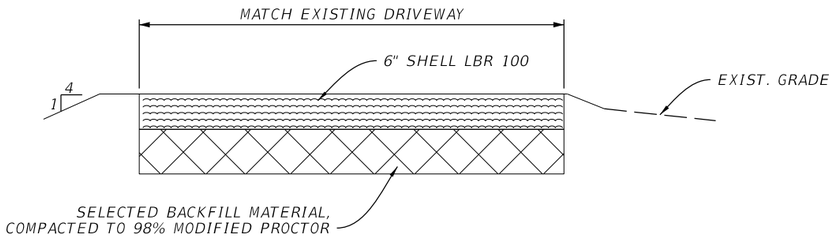
BRICK PAVER DRIVE DETAIL

SECTION VIEW
N.T.S.



CONCRETE DRIVE DETAIL

SECTION VIEW
N.T.S.



SHELL DRIVE DETAIL

SECTION VIEW
N.T.S.

NOTE: DRIVEWAY DETAILS ARE LIMITED TO AREAS WITHIN THE RIGHT-OF-WAY OR PROPOSED EASEMENT.
AREAS OUTSIDE OF THE RIGHT-OF-WAY OR EASEMENT SHALL BE ACCORDING TO OWNER AGREEMENTS.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Kimley»Horn
MOLLY CHARLENE WILLIAMS, P.E.
P.E. LICENSE NUMBER: 54281
1800 SECOND STREET, SUITE 900
SARASOTA, FL 34236
(941) 379-7600

TOWN OF LONGBOAT KEY

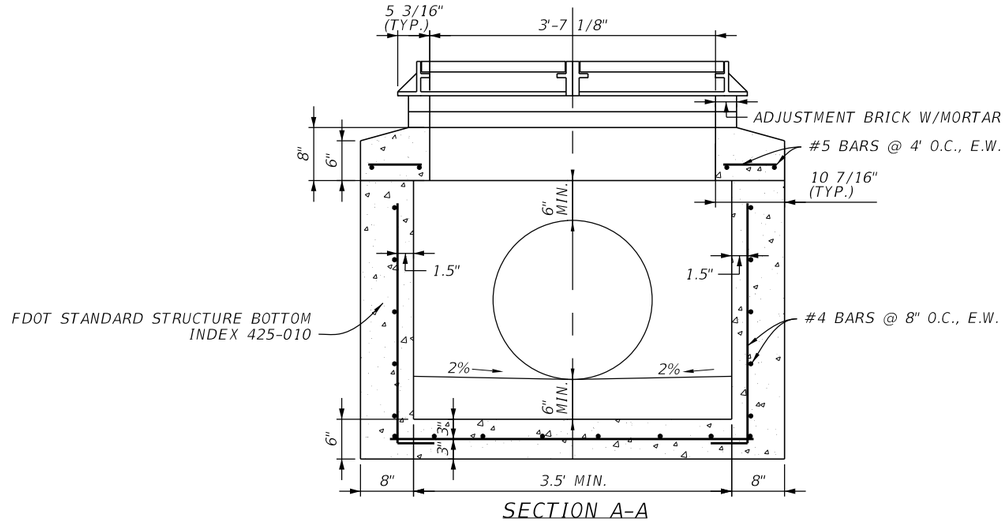
NORTON STREET

SPECIAL DETAILS

SHEET NO. 12

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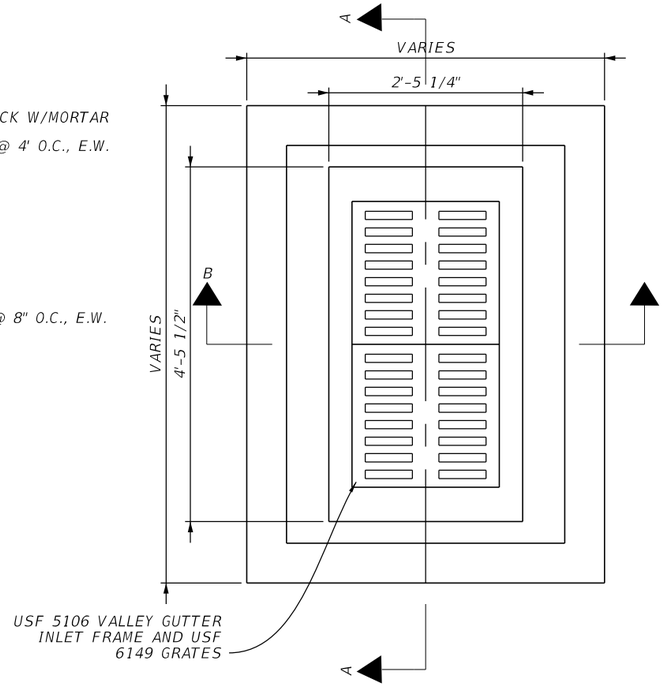
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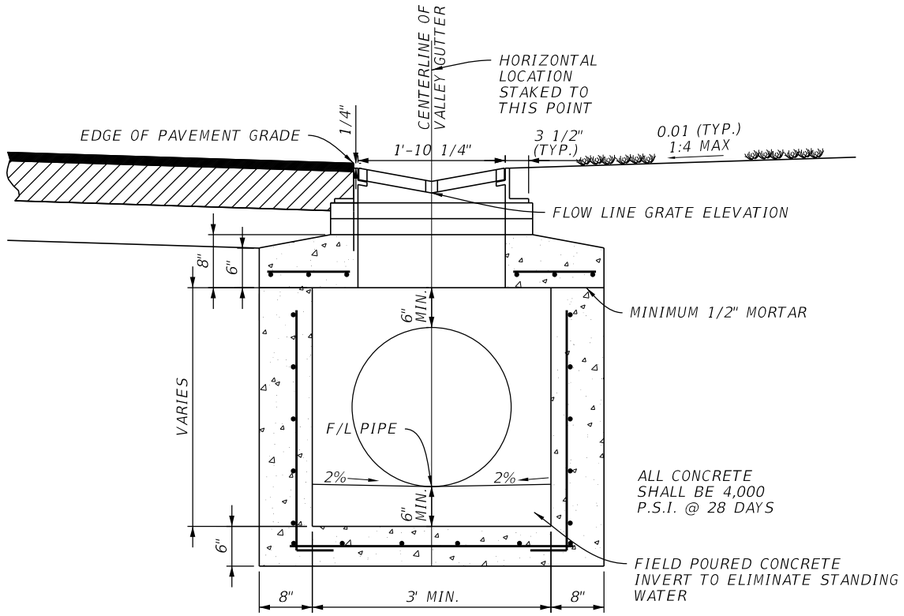
SECTION A-A

VALLEY GUTTER INLET DETAIL

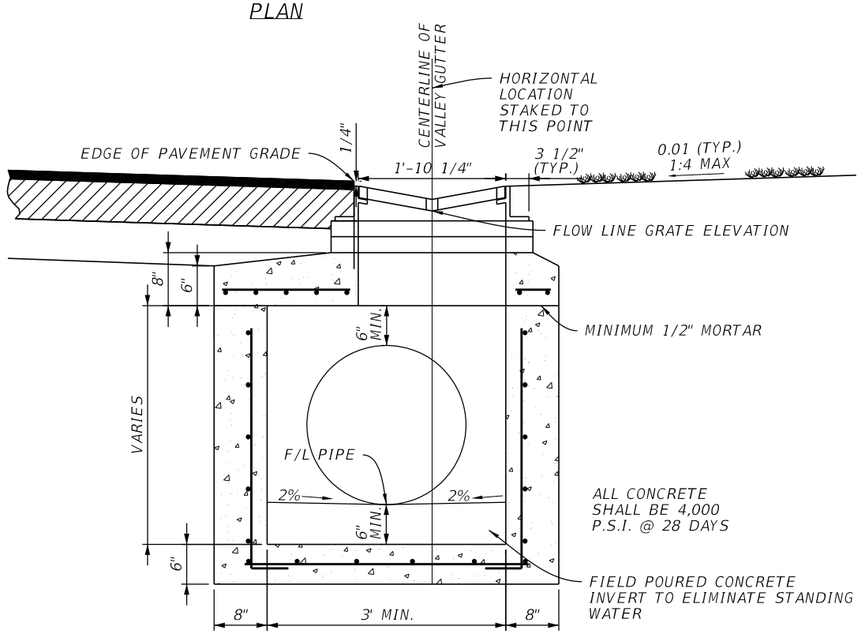
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PLAN



SECTION B-B



SECTION B-B OFFSET BOTTOM

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Kimley»Horn

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P.E. LICENSE NUMBER: 54281
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TOWN OF LONGBOAT KEY

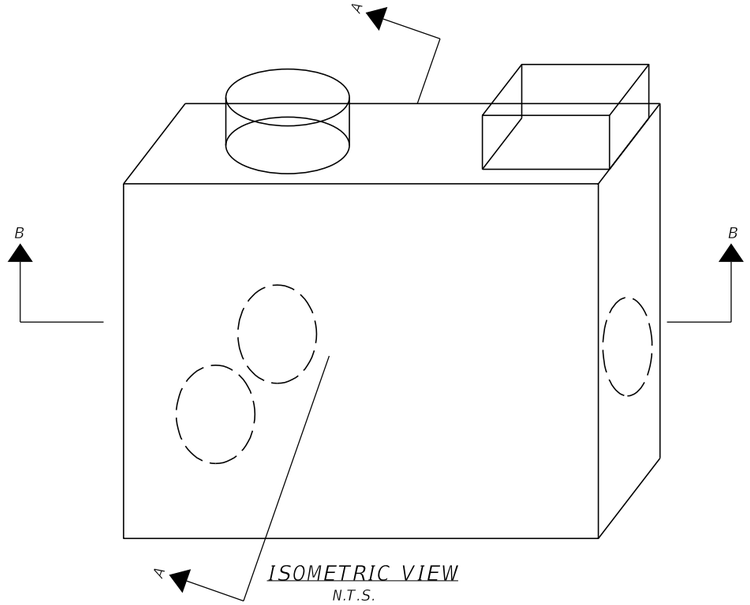
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VALLEY GUTTER INLET DETAIL

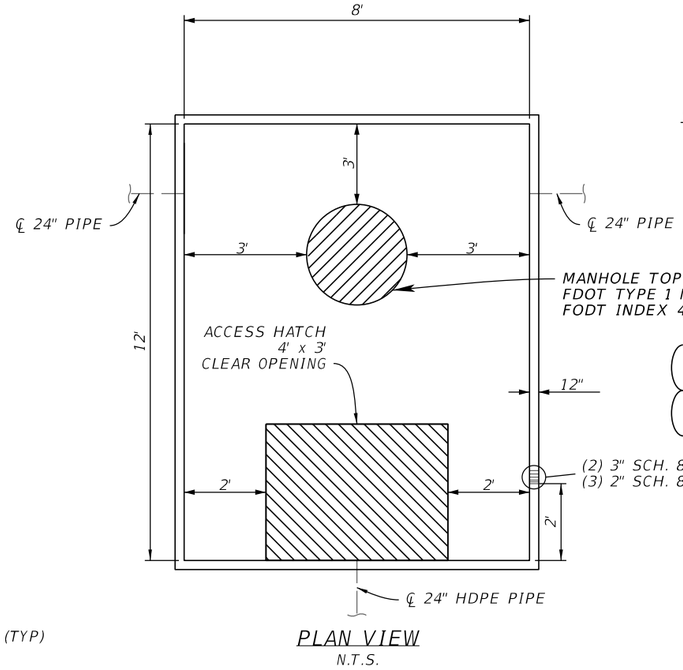
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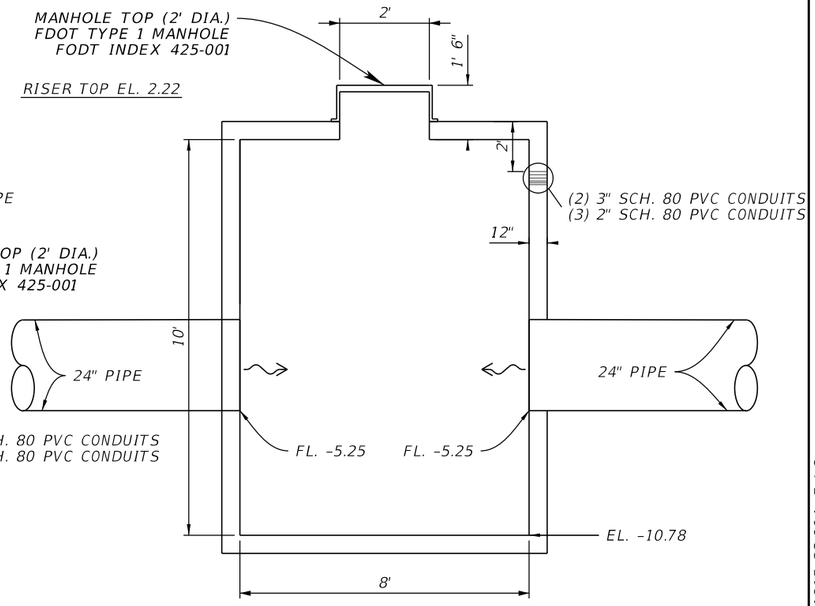
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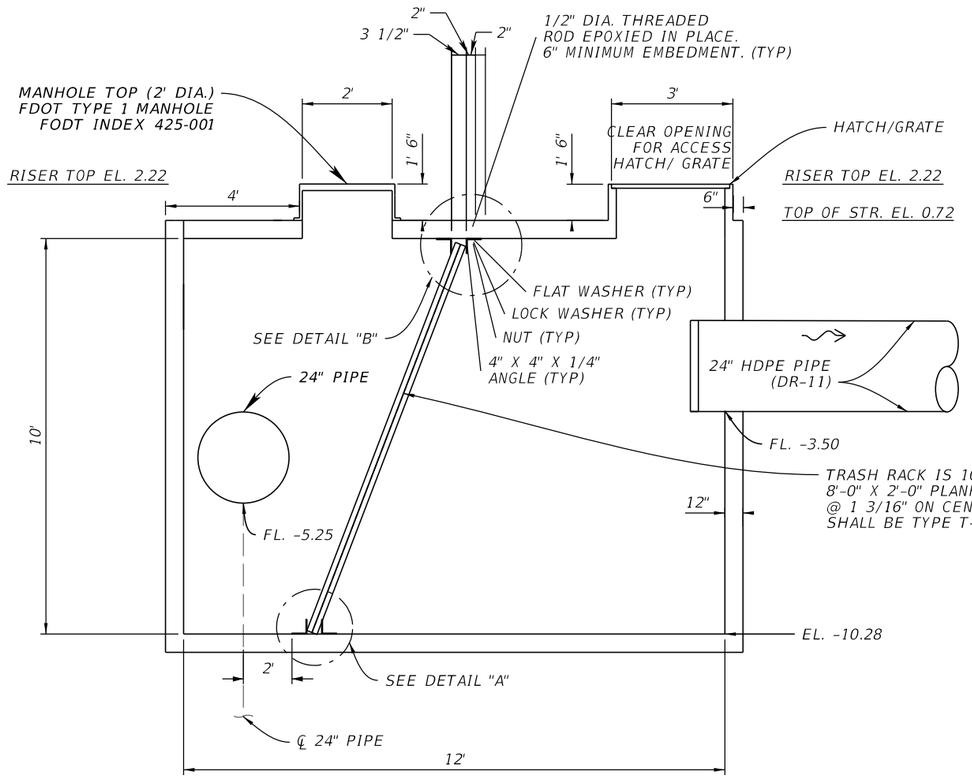
ISOMETRIC VIEW
N.T.S.



PLAN VIEW
N.T.S.



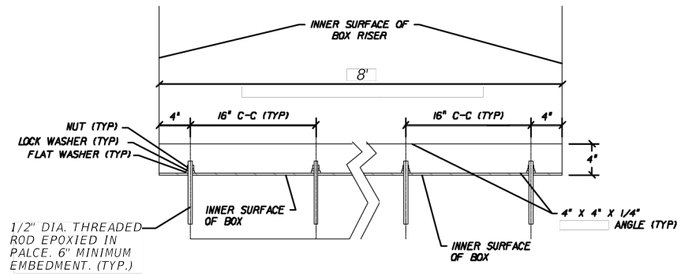
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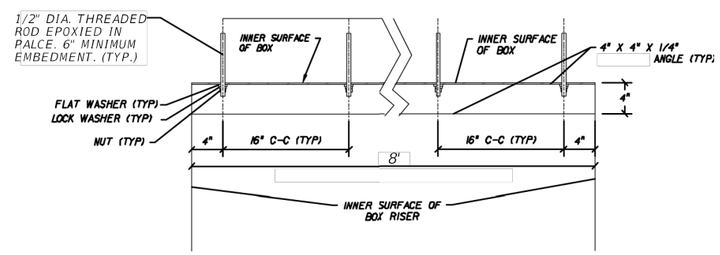
SECTION B-B
N.T.S.

NOTE: ALUMINUM SHALL BE TYPE T-6061 IR T-6063

NOTES:
1. MINIMUM CONCRETE DENSITY 150 PCF
2. TOP, BOTTOM, AND WALL THICKNESS MINIMUM 12".
3. ALL ANGLES, RODS, BOLTS, WASHERS, NUTS, AND FASTENERS SHALL BE MARINE GRADE 316 STAINLESS STEEL.
4. REFER TO DELEGATED DESIGN NOTES CHANGES ON PLAN SHEET 11
5. UTILITY CONFLICT BOX FOR FPL BURIED ELECTRIC. REFER TO FDOT INDEX 425-080.



DETAIL "A"



DETAIL "B"

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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MOLLY CHARLENE WILLIAMS, P.E.
P.E. LICENSE NUMBER: 54281
1800 SECOND STREET, SUITE 900
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TOWN OF LONGBOAT KEY

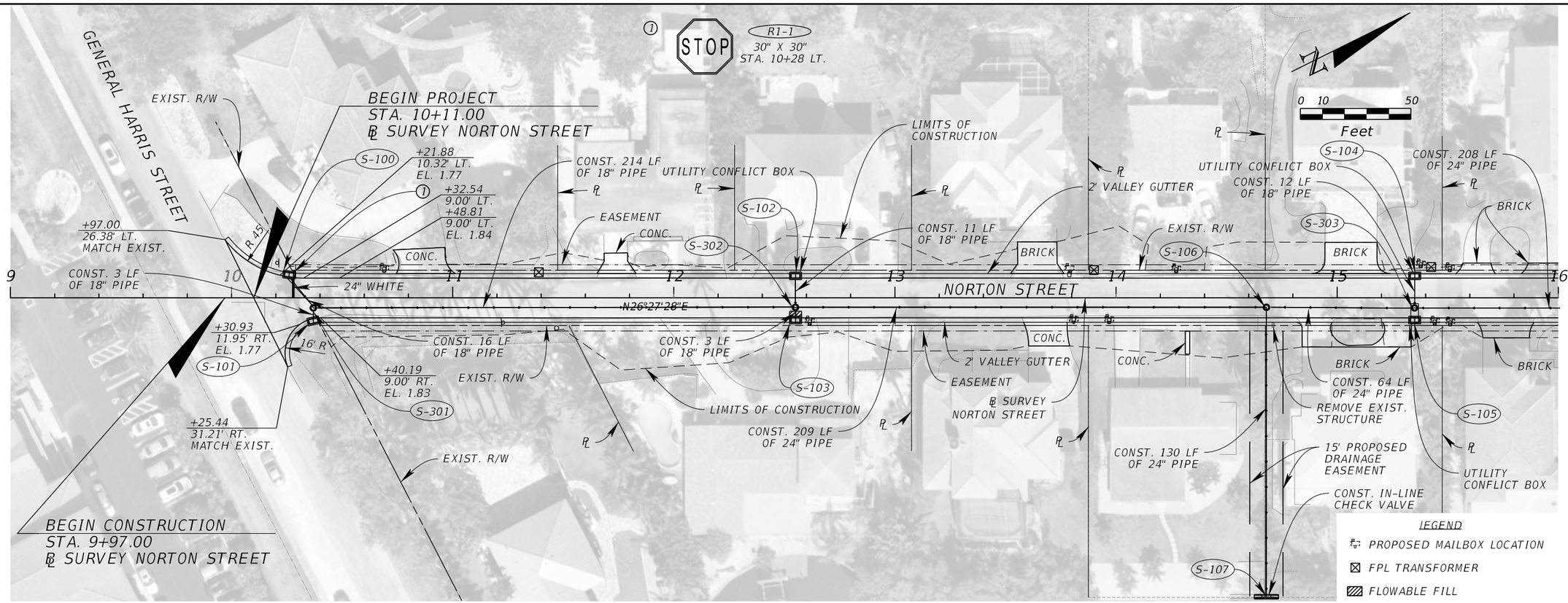
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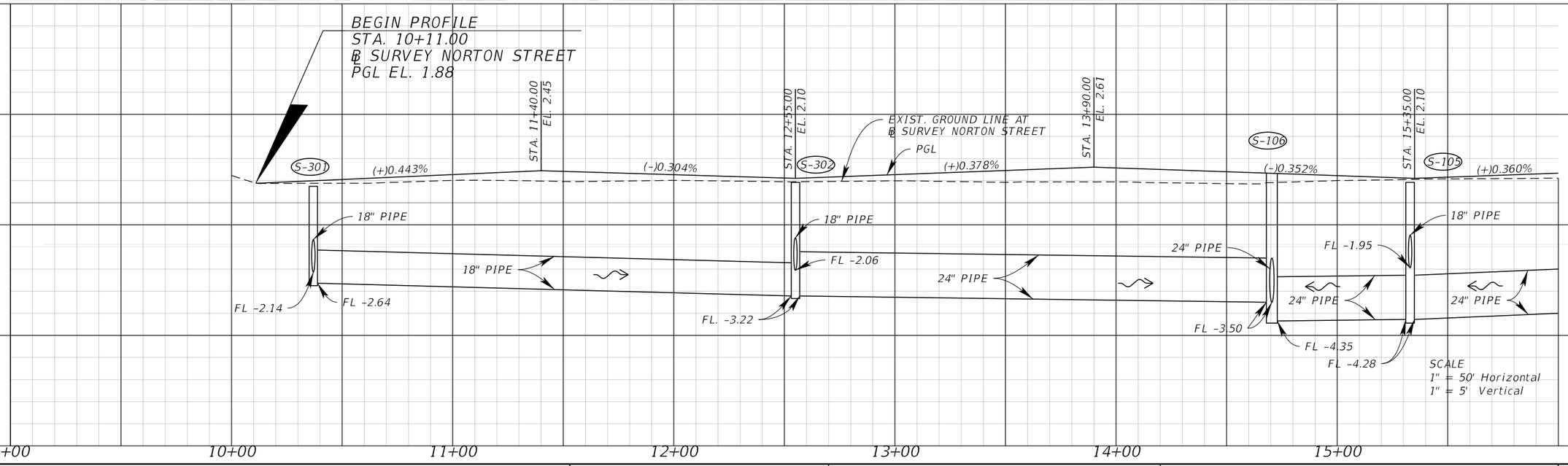
WET WELL DETAIL (S-WW)

SHEET NO.

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K:\SAR_Worksets\FDOT\148800021_Norton\Drainage\DRDTRD02.dgn : WET WELL DETAIL SHEET
Kevin.Brock 9/12/2025 9:53:31 AM





REVISIONS			
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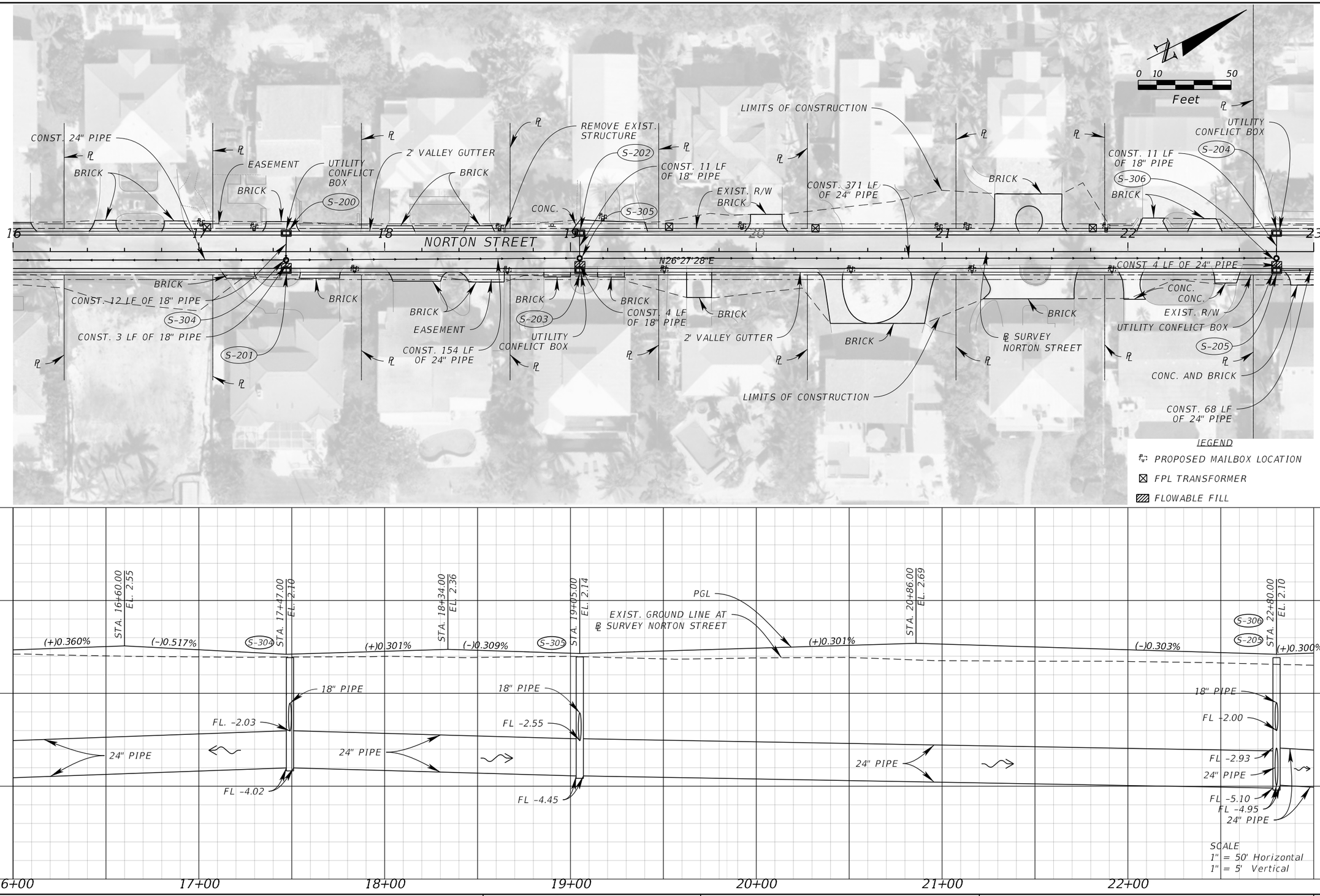
NORTON STREET

PLAN AND PROFILE (1)

SHEET NO.

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Kaleigh.Cook 9/12/2025 9:36:06 AM



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Kimley»Horn
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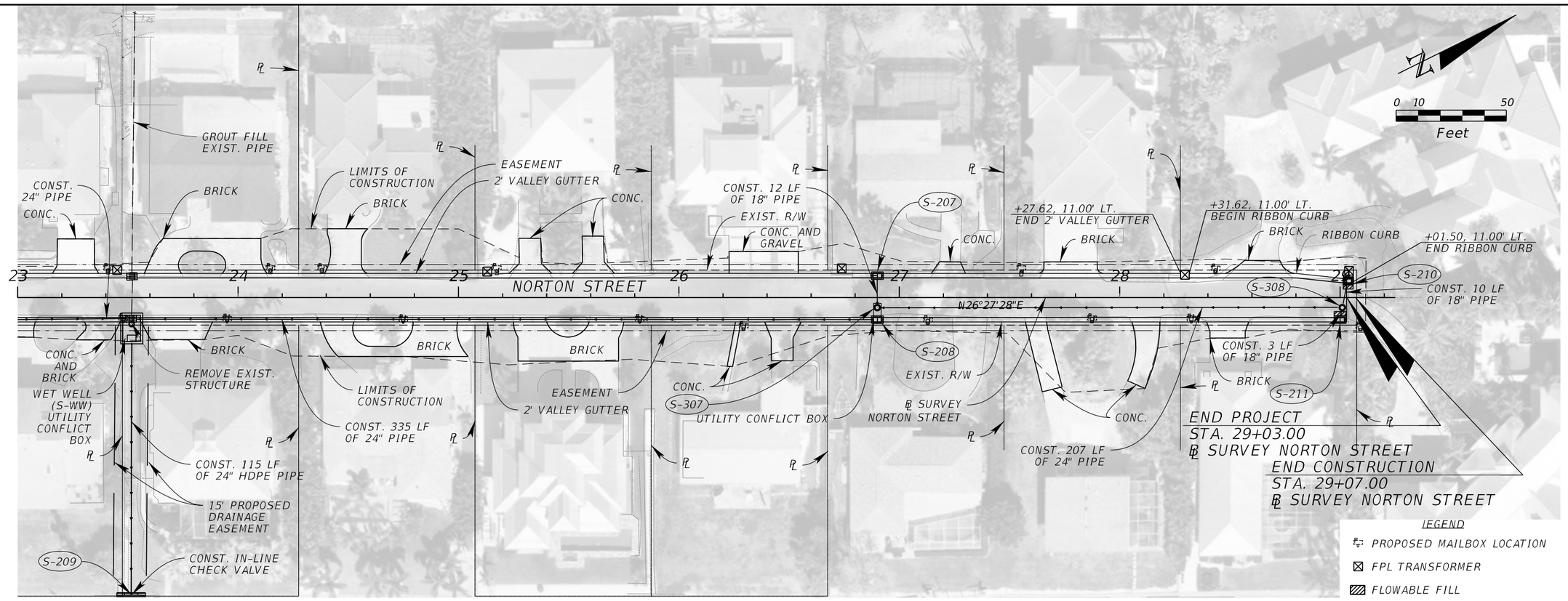
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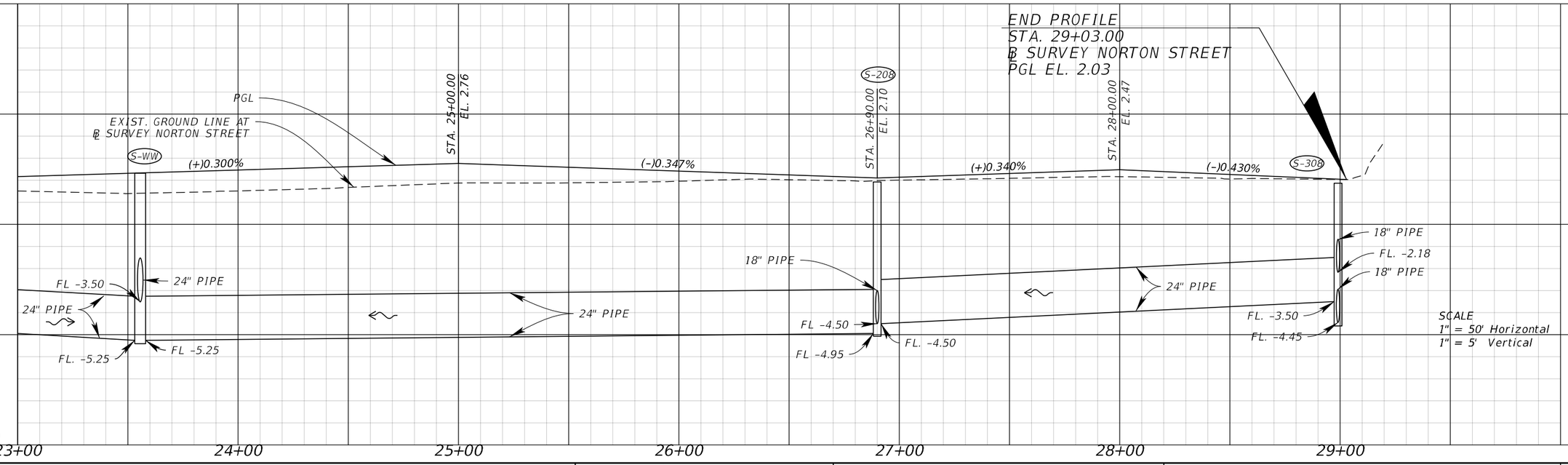
NORTON STREET

PLAN AND PROFILE (2)

SHEET NO.

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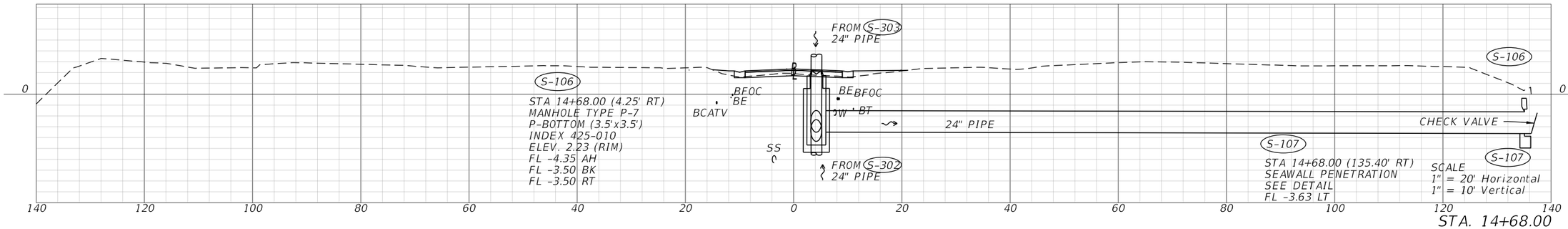
NORTON STREET

PLAN AND PROFILE (3)

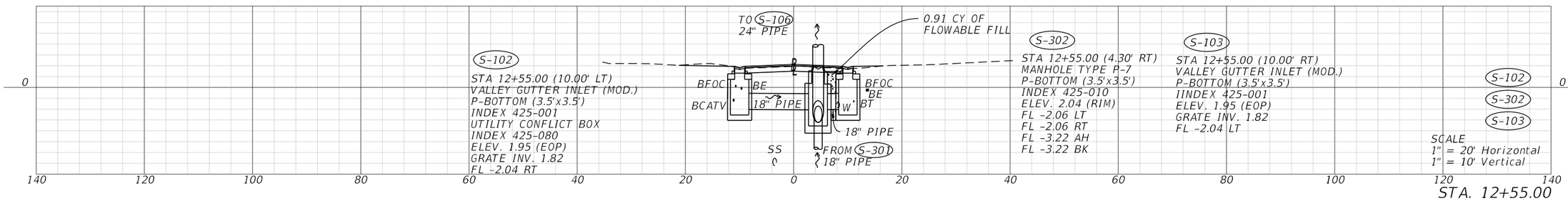
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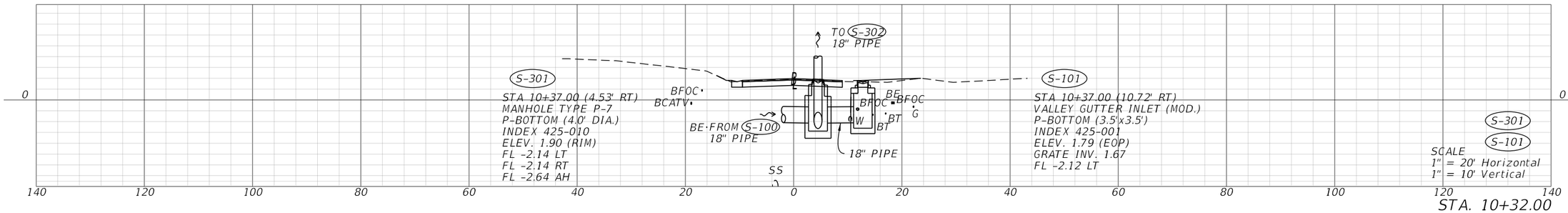
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Kaleigh.Cook 9/12/2025 9:36:21 AM



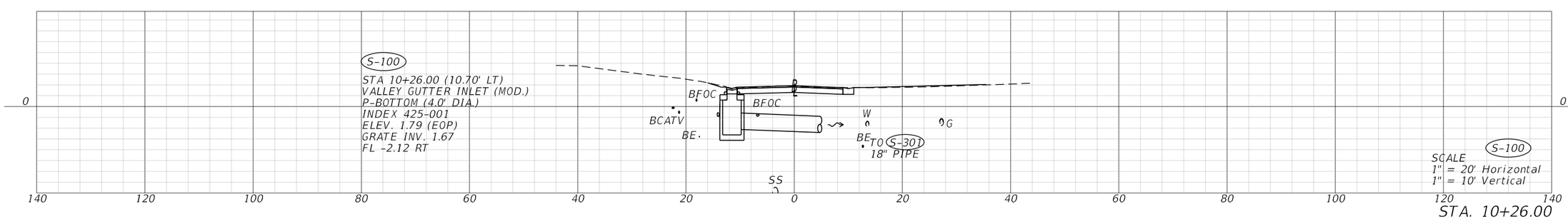
STA. 14+68.00



STA. 12+55.00



STA. 10+32.00



STA. 10+26.00

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Kimley»Horn
MOLLY CHARLENE WILLIAMS, P.E.
P.E. LICENSE NUMBER: 54281
1800 SECOND STREET, SUITE 900
SARASOTA, FL 34236
(941) 379-7600

TOWN OF LONGBOAT KEY

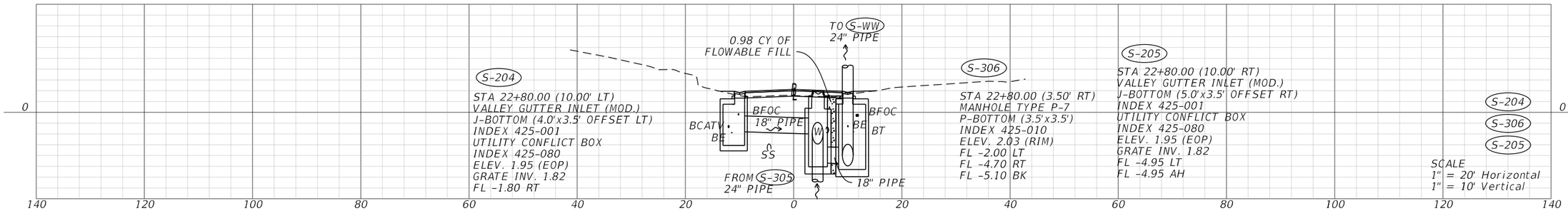
NORTON STREET

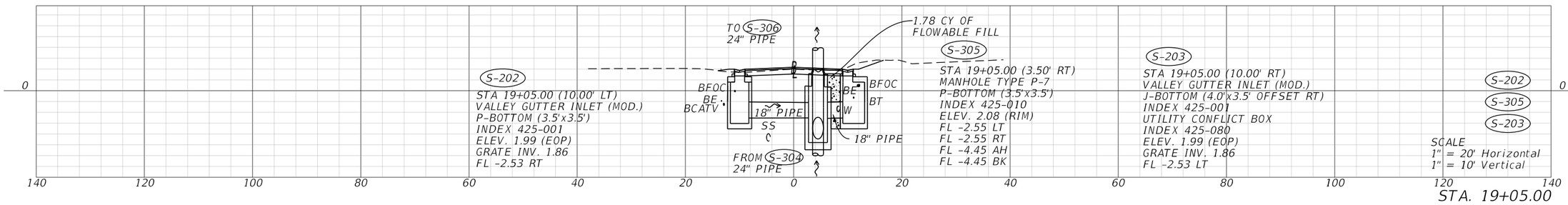
DRAINAGE STRUCTURES

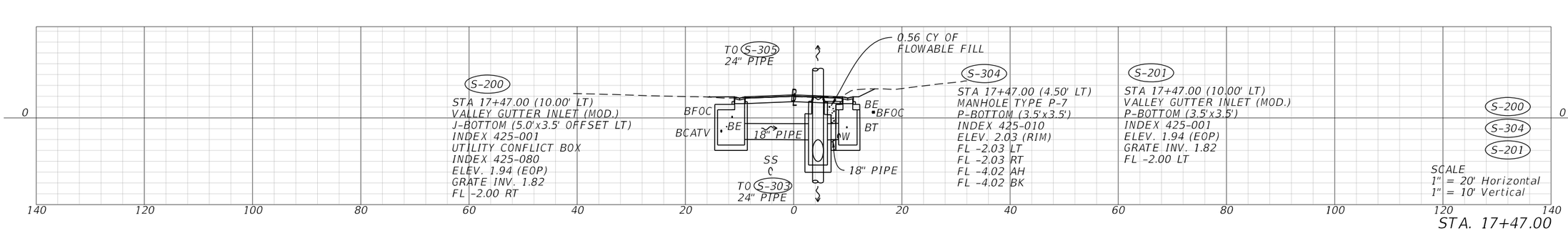
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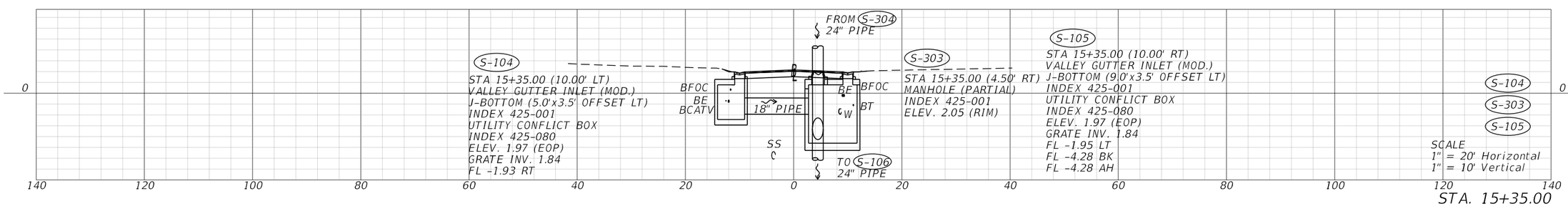
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K:\SAR_Worksets\FDOT\148800021_Norton\Roadway\PLANRD01_Border.dgn : UNTITLED SHEET
Kaleigh.Cook 9/12/2025 8:58:06 AM









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Kimley»Horn
MOLLY CHARLENE WILLIAMS, P.E.
P.E. LICENSE NUMBER: 54281
1800 SECOND STREET, SUITE 900
SARASOTA, FL 34236
(941) 379-7600

TOWN OF LONGBOAT KEY

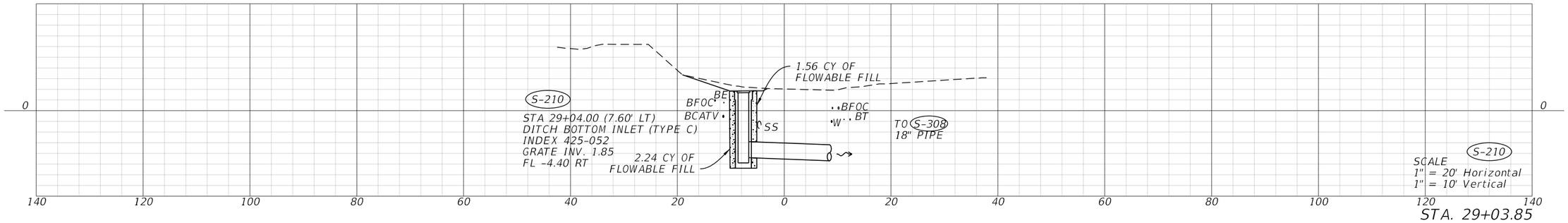
NORTON STREET

DRAINAGE STRUCTURES

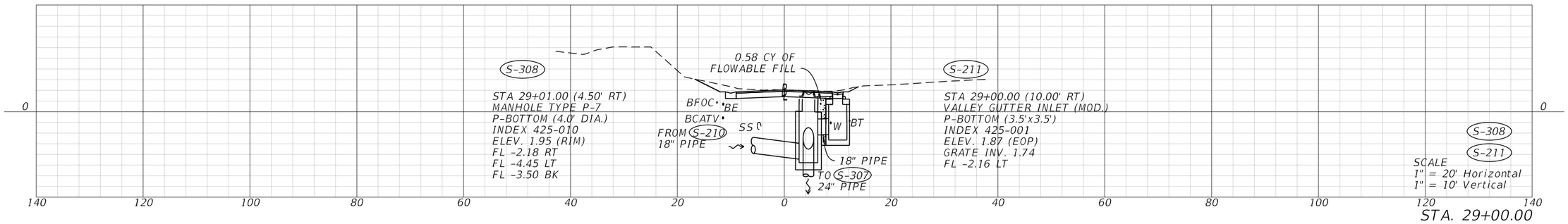
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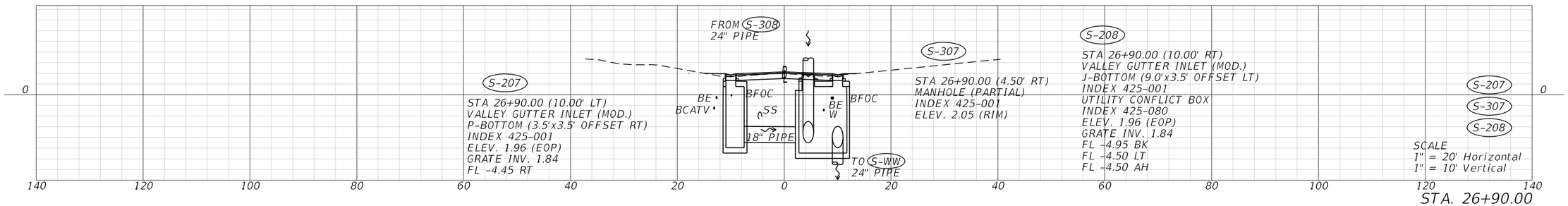
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Kaleigh.Cook 9/12/2025 8:58:06 AM



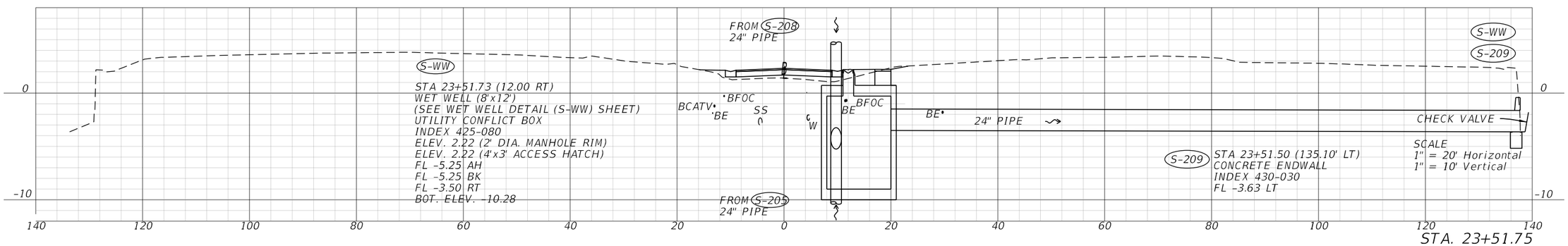
STA. 29+03.85



STA. 29+00.00



STA. 26+90.00



STA. 23+51.75

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Kimley»Horn
MOLLY CHARLENE WILLIAMS, P.E.
P.E. LICENSE NUMBER: 54281
1800 SECOND STREET, SUITE 900
SARASOTA, FL 34236
(941) 379-7600

TOWN OF LONGBOAT KEY

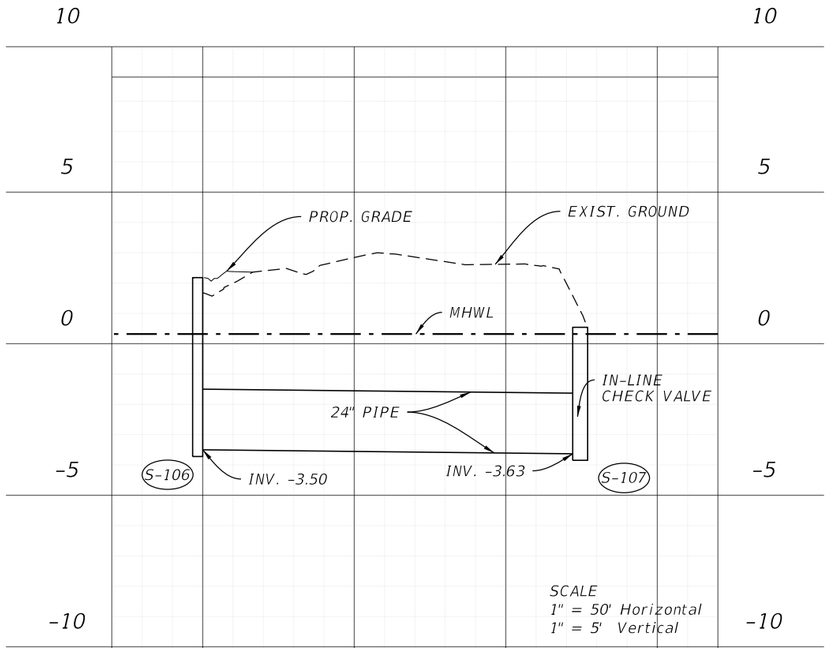
NORTON STREET

DRAINAGE STRUCTURES

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

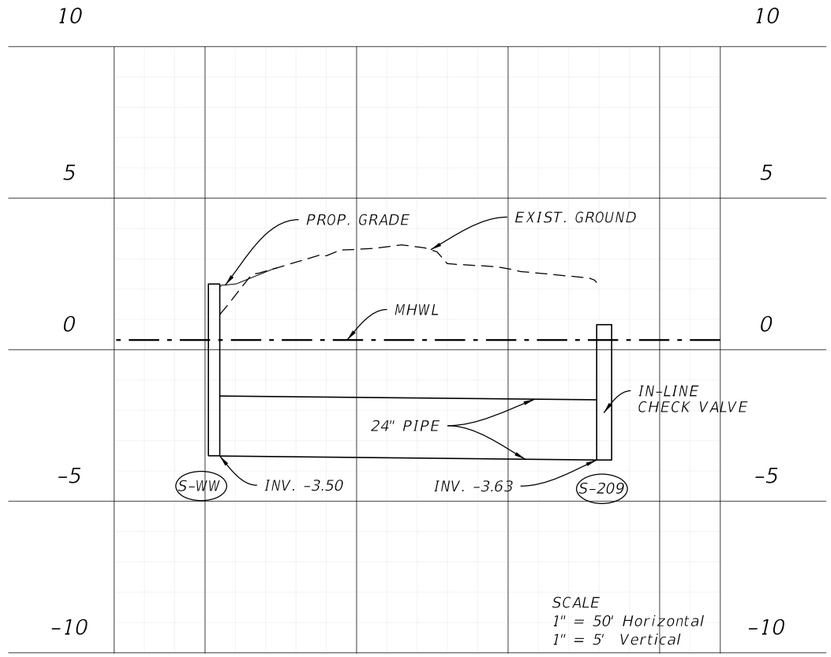
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Kaleigh.Cook 9/12/2025 8:58:07 AM



OUTFALL 1

S-106 TO S-107

STA. 14+68.00 (RT)



OUTFALL 2

S-WW TO S-209

STA. 23+51.73 (RT)

NOTE:

1. Outfall structures S-107 and S-209 will be constructed as headwalls in the existing sea wall. This will require no additional fill or cut at or below the MHWL. Drainage improvements will not extend past current limits of the existing seawalls.
2. Sea walls will be restored to exisitng elevation and condition or better.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Kimley»Horn

MOLLY CHARLENE WILLIAMS, P.E.
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SARASOTA, FL 34236
(941) 379-7600

TOWN OF LONGBOAT KEY

NORTON STREET

OUTFALL PROFILES

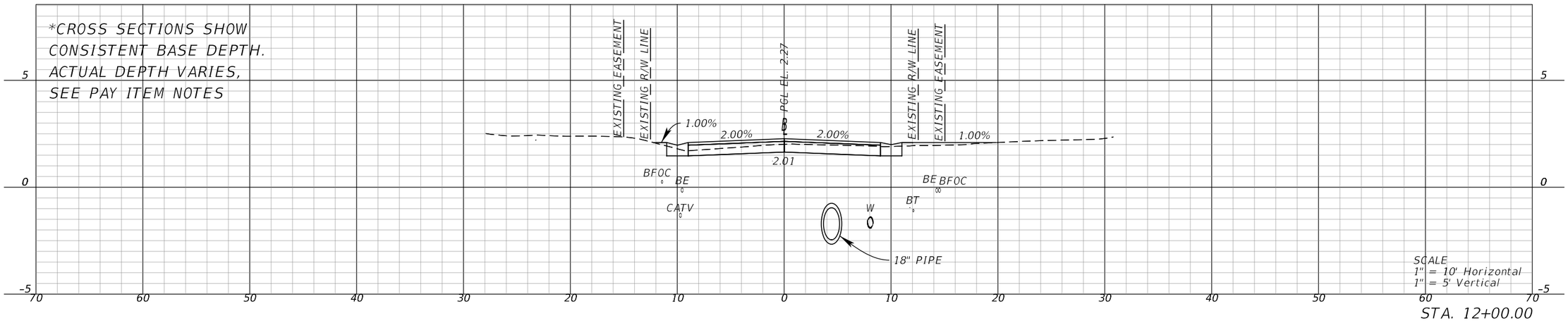
SHEET NO.

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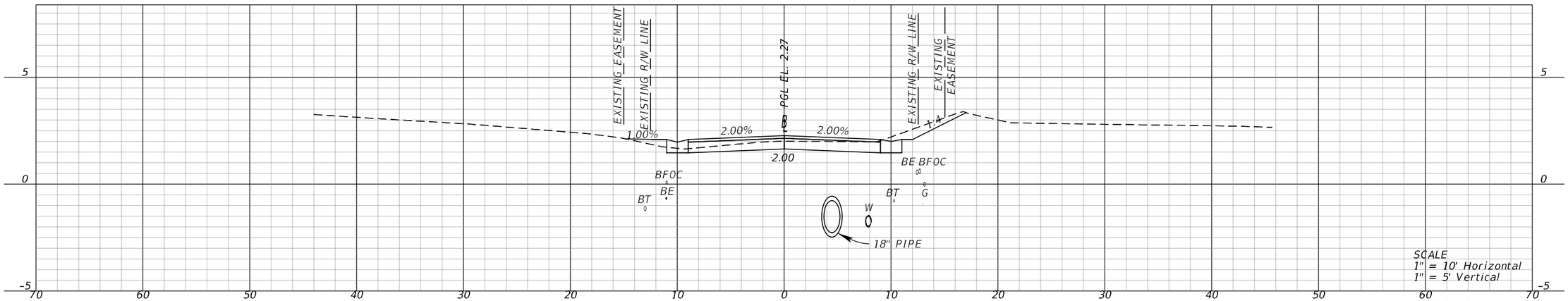
K:\SAR_Workgroup\DOT\148800021\Norton Drainage\DRR\DD01.dgn OUTFALL PROFILE SHEET
Kevin.Brock 9/12/2025 9:56:36 AM

*CROSS SECTIONS SHOW CONSISTENT BASE DEPTH. ACTUAL DEPTH VARIES, SEE PAY ITEM NOTES



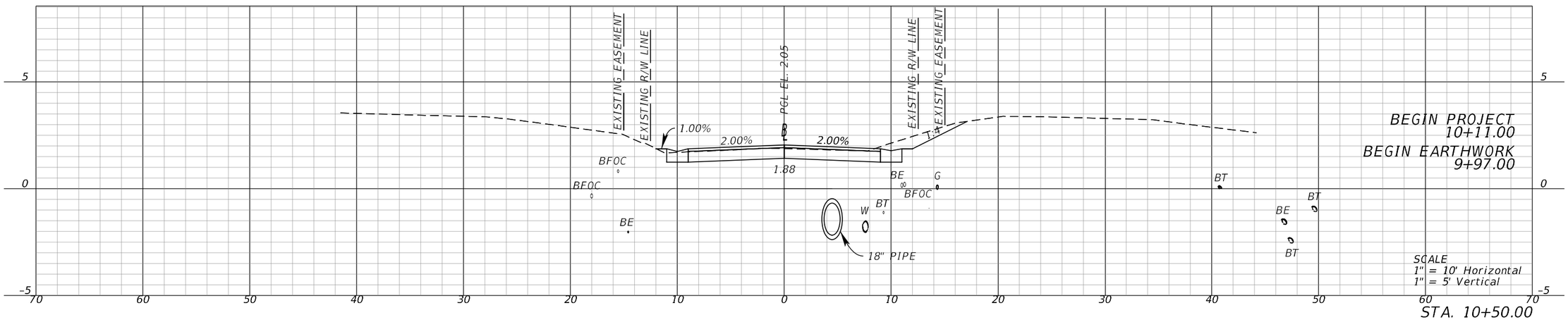
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STA. 12+00.00



SCALE
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STA. 11+00.00



BEGIN PROJECT
10+11.00
BEGIN EARTHWORK
9+97.00

SCALE
1" = 10' Horizontal
1" = 5' Vertical

STA. 10+50.00

REVISIONS			
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1800 SECOND STREET, SUITE 900
SARASOTA, FL 34236
(941) 379-7600

TOWN OF LONGBOAT KEY

NORTON STREET

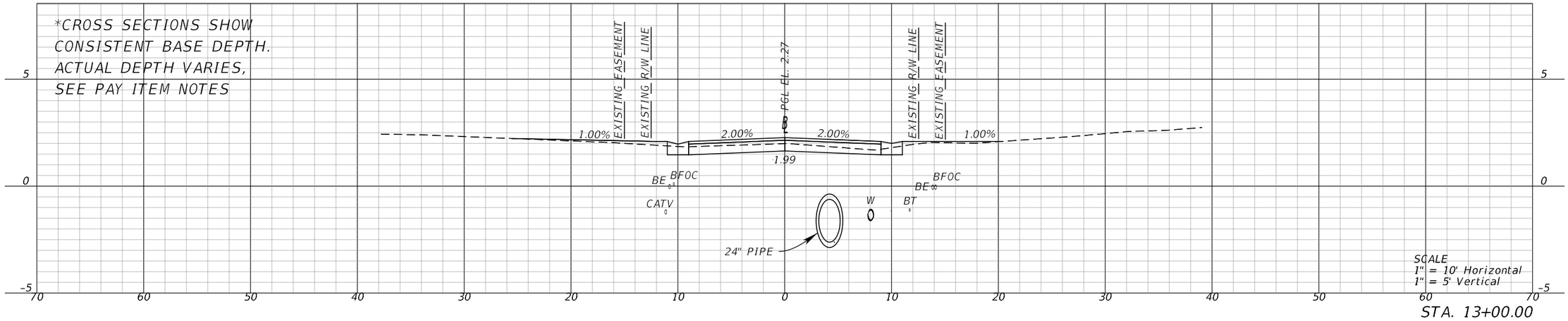
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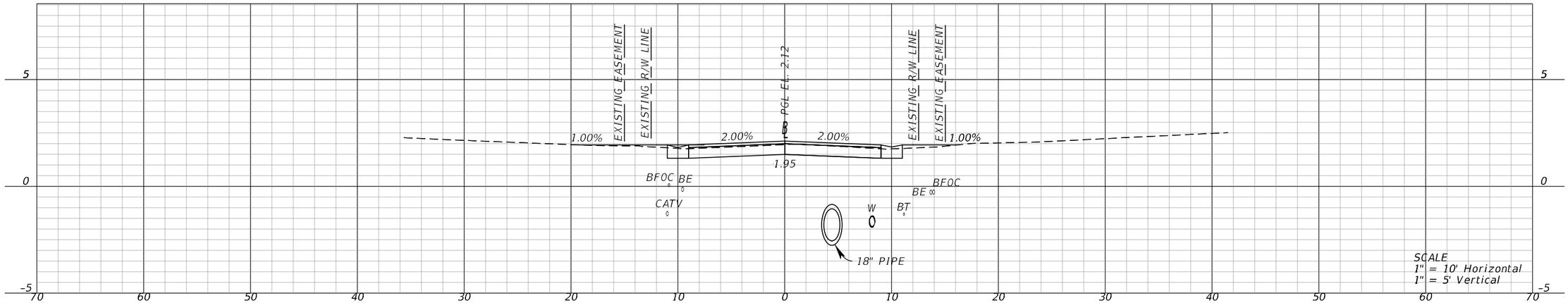
K:\SAR_Worksets\FDOT\148800021_Norton\Roadway\RDXSRD01_PT2.dgn : NORTON SURVEY BASELINE - 10+50.00 [SHEET]
Kaleigh.Cook 9/11/2025 11:30:10 AM

*CROSS SECTIONS SHOW CONSISTENT BASE DEPTH. ACTUAL DEPTH VARIES, SEE PAY ITEM NOTES



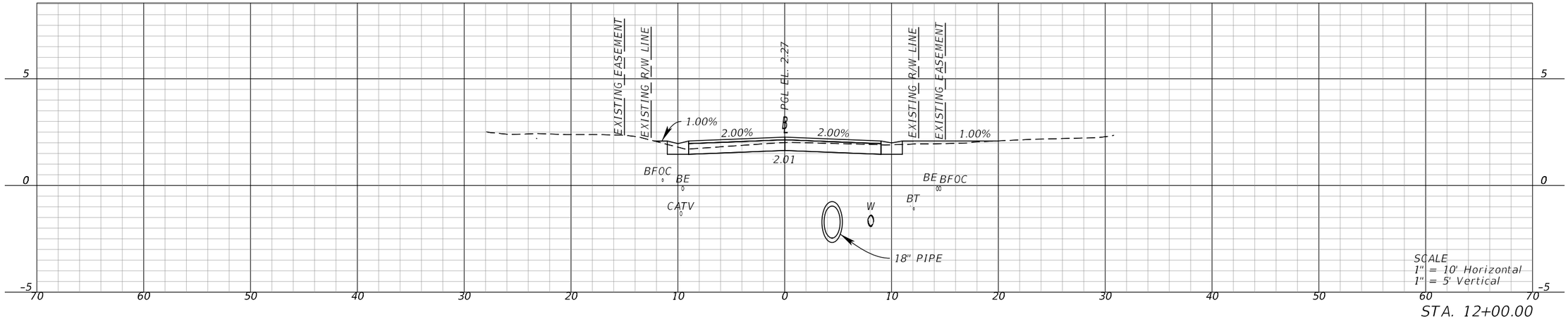
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STA. 13+00.00



SCALE
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STA. 12+50.00



SCALE
1" = 10' Horizontal
1" = 5' Vertical

STA. 12+00.00

REVISIONS			
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Kimley»Horn

MOLLY CHARLENE WILLIAMS, P.E.
P.E. LICENSE NUMBER: 54281
1800 SECOND STREET, SUITE 900
SARASOTA, FL 34236
(941) 379-7600

TOWN OF LONGBOAT KEY

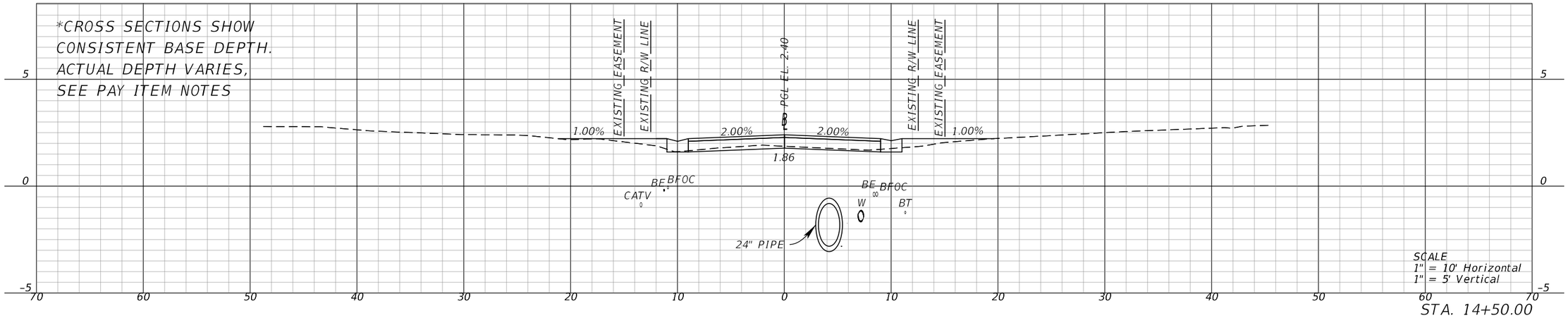
NORTON STREET

CROSS SECTIONS

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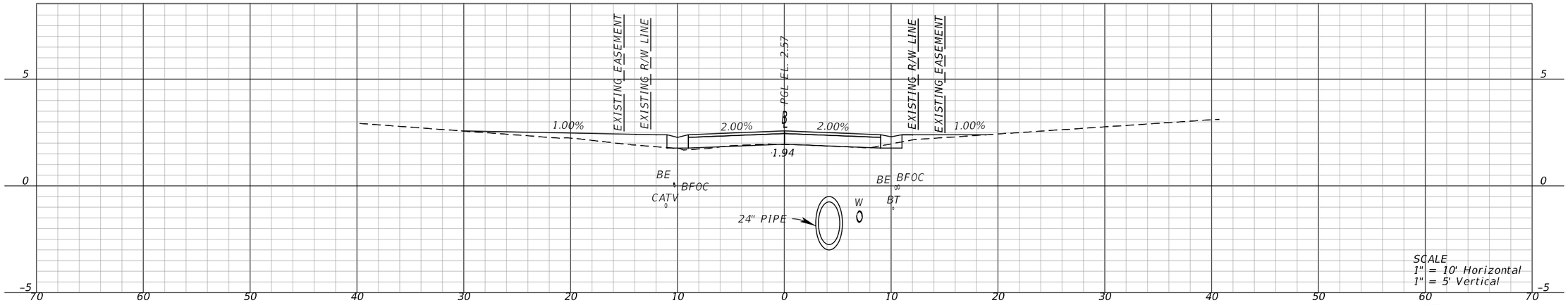
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

*CROSS SECTIONS SHOW CONSISTENT BASE DEPTH. ACTUAL DEPTH VARIES, SEE PAY ITEM NOTES



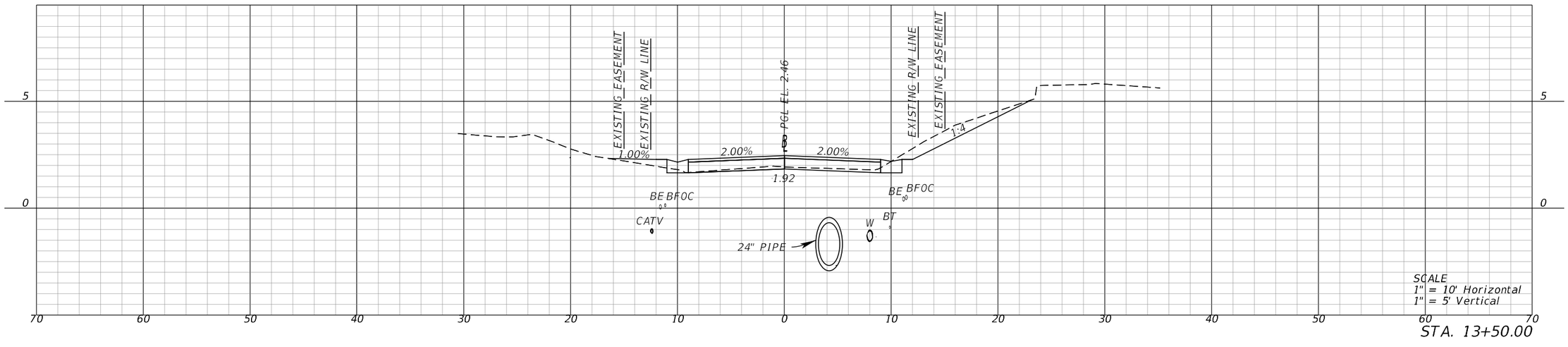
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STA. 14+50.00



SCALE
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1" = 5' Vertical

STA. 14+00.00



SCALE
1" = 10' Horizontal
1" = 5' Vertical

STA. 13+50.00

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Kimley»Horn
MOLLY CHARLENE WILLIAMS, P.E.
P.E. LICENSE NUMBER: 54281
1800 SECOND STREET, SUITE 900
SARASOTA, FL 34236
(941) 379-7600

TOWN OF LONGBOAT KEY

NORTON STREET

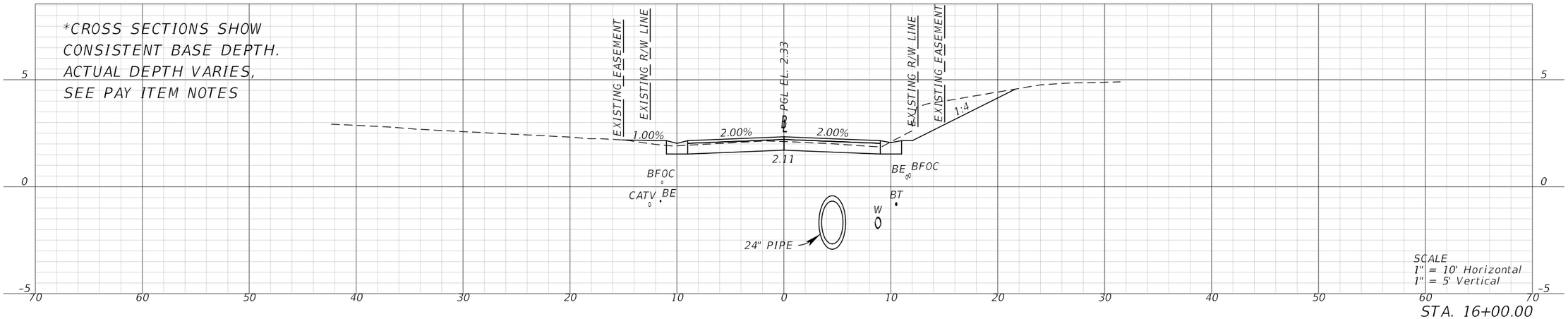
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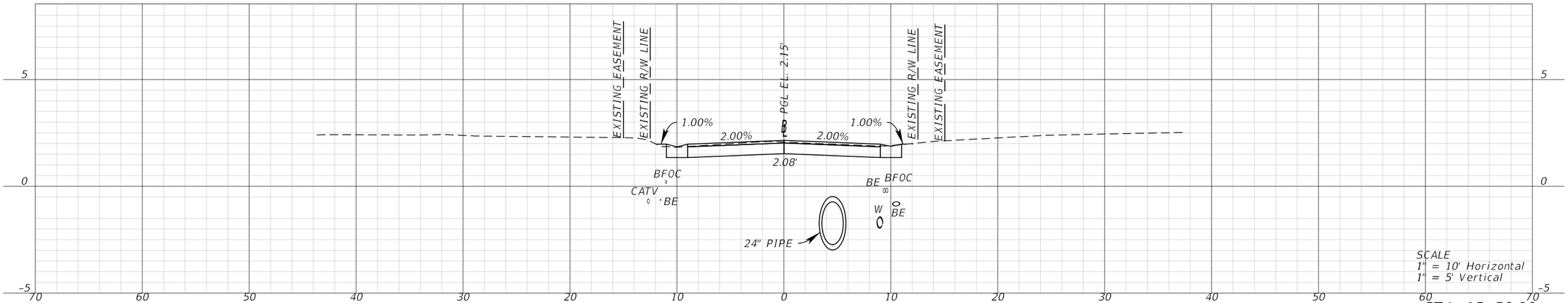
K:\SAR_Worksets\FDOT\148800021_Norton\Roadway\RDXSRD01_PT2.dgn : NORTON SURVEY BASELINE - 13+50.00 [SHEET]
Kaleigh.Cook 9/11/2025 11:26:06 AM

*CROSS SECTIONS SHOW CONSISTENT BASE DEPTH. ACTUAL DEPTH VARIES, SEE PAY ITEM NOTES



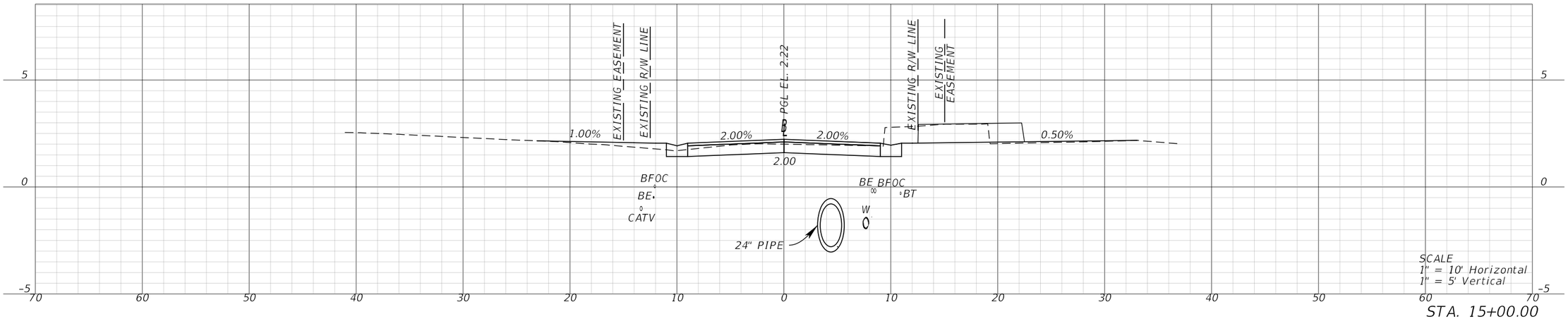
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STA. 16+00.00



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STA. 15+50.00



SCALE
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1" = 5' Vertical

STA. 15+00.00

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Kimley»Horn
MOLLY CHARLENE WILLIAMS, P.E.
P.E. LICENSE NUMBER: 54281
1800 SECOND STREET, SUITE 900
SARASOTA, FL 34236
(941) 379-7600

TOWN OF LONGBOAT KEY

NORTON STREET

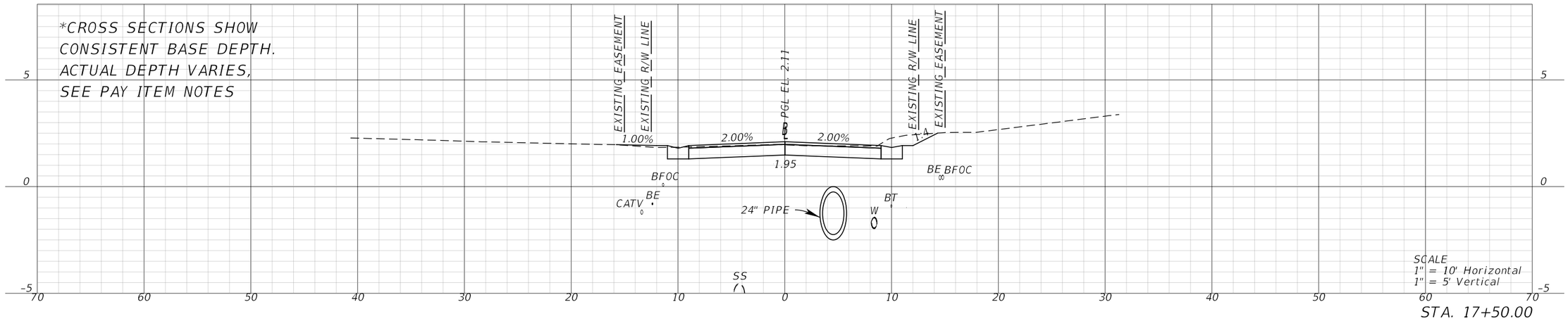
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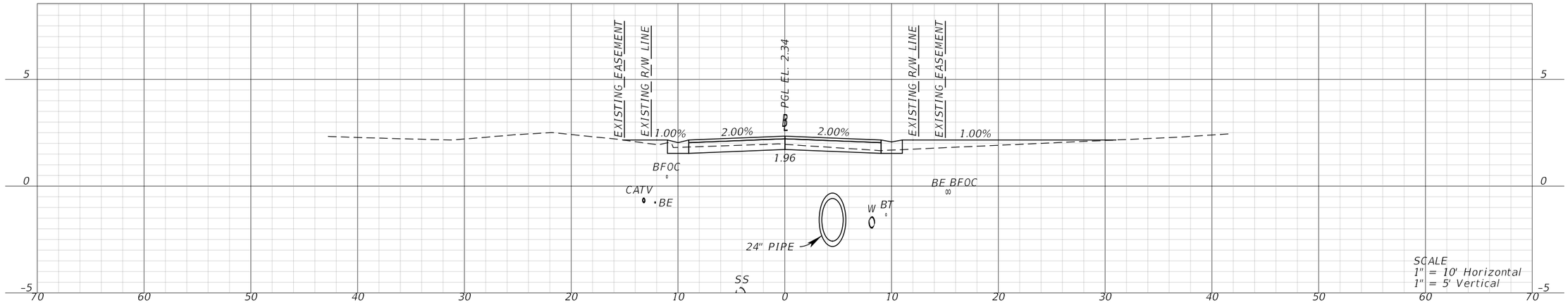
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Kaleigh.Cook 9/11/2025 11:26:08 AM

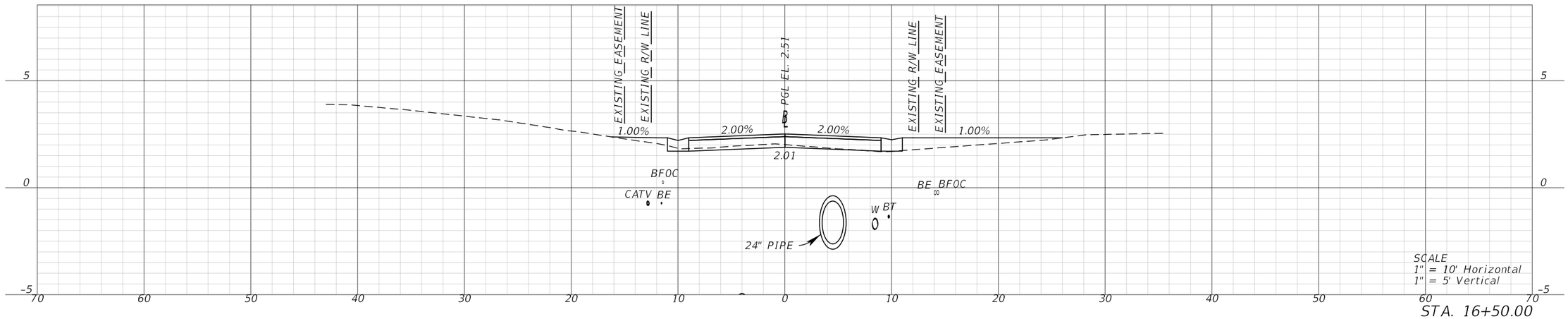
*CROSS SECTIONS SHOW CONSISTENT BASE DEPTH. ACTUAL DEPTH VARIES, SEE PAY ITEM NOTES



STA. 17+50.00



STA. 17+00.00



STA. 16+50.00

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Kimley»Horn
MOLLY CHARLENE WILLIAMS, P.E.
P.E. LICENSE NUMBER: 54281
1800 SECOND STREET, SUITE 900
SARASOTA, FL 34236
(941) 379-7600

TOWN OF LONGBOAT KEY

NORTON STREET

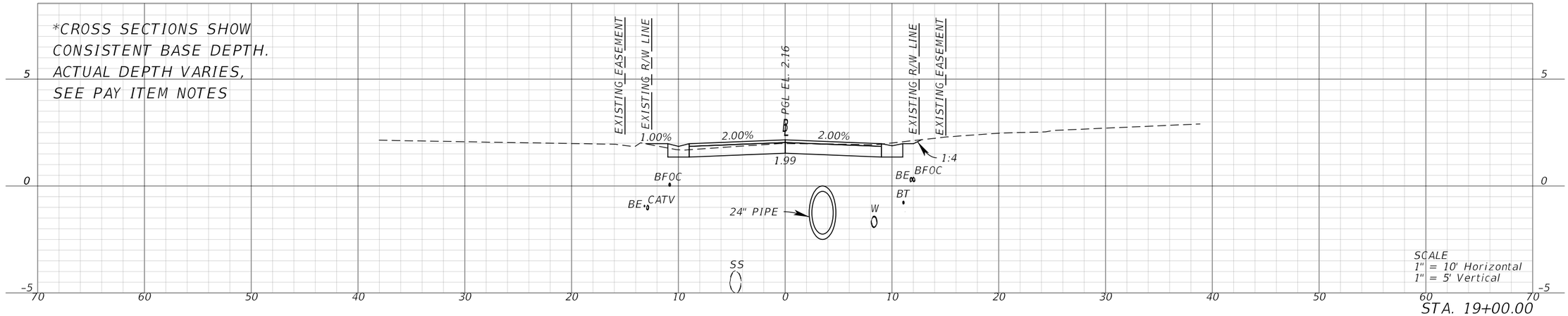
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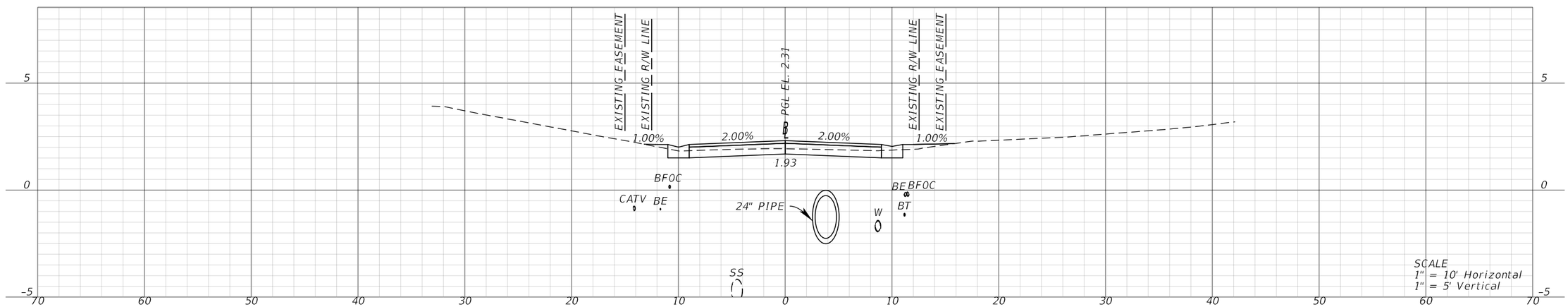
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Kaleigh.Cook 9/11/2025 11:26:09 AM

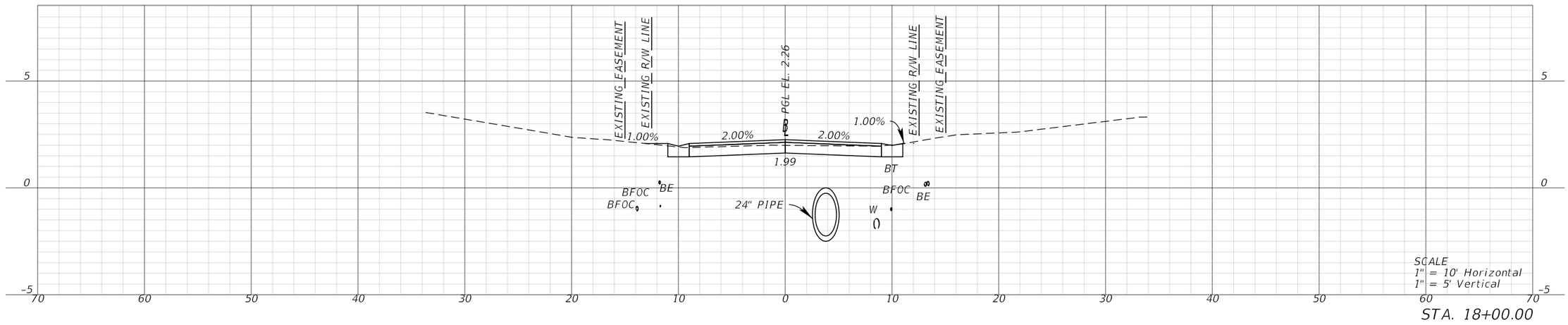
*CROSS SECTIONS SHOW CONSISTENT BASE DEPTH. ACTUAL DEPTH VARIES, SEE PAY ITEM NOTES



STA. 19+00.00



STA. 18+50.00



STA. 18+00.00

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Kimley»Horn
MOLLY CHARLENE WILLIAMS, P.E.
P.E. LICENSE NUMBER: 54281
1800 SECOND STREET, SUITE 900
SARASOTA, FL 34236
(941) 379-7600

TOWN OF LONGBOAT KEY

NORTON STREET

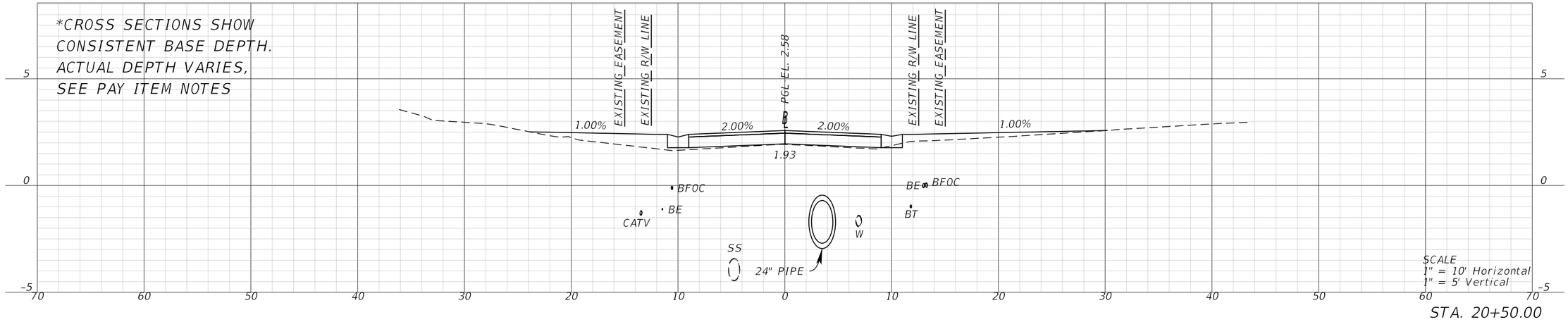
CROSS SECTIONS

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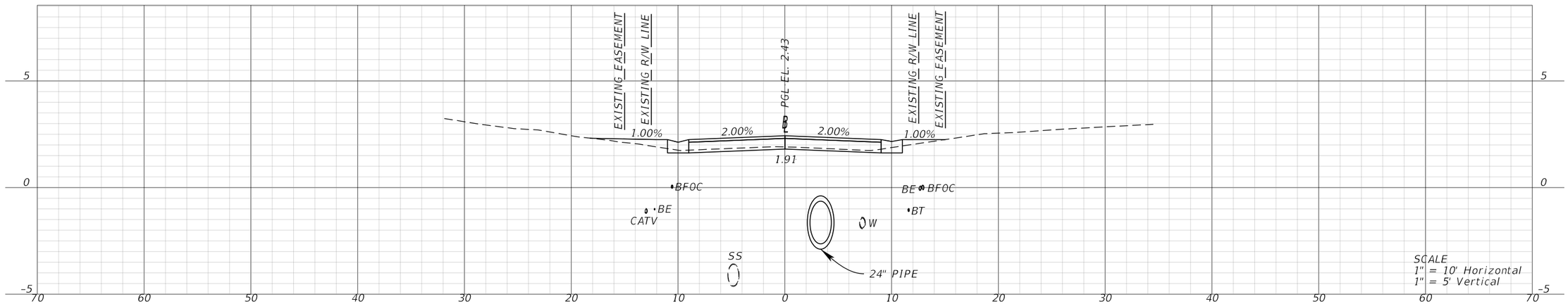
K:\SAR_Worksets\FDOT\148800021_Norton\Roadway\RDXSRD01_PT2.dgn : NORTON SURVEY BASELINE - 18+00.00 [SHEET]
Kaleigh.Cook 9/11/2025 11:26:11 AM

*CROSS SECTIONS SHOW CONSISTENT BASE DEPTH. ACTUAL DEPTH VARIES, SEE PAY ITEM NOTES



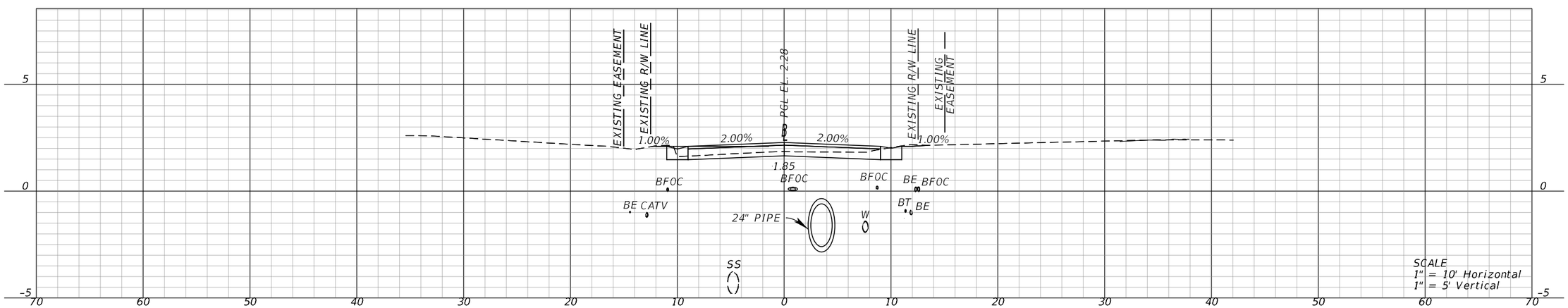
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STA. 20+50.00



SCALE
1" = 10' Horizontal
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STA. 20+00.00



SCALE
1" = 10' Horizontal
1" = 5' Vertical

STA. 19+50.00

REVISIONS			
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P.E. LICENSE NUMBER: 54281
1800 SECOND STREET, SUITE 900
SARASOTA, FL 34236
(941) 379-7600

TOWN OF LONGBOAT KEY

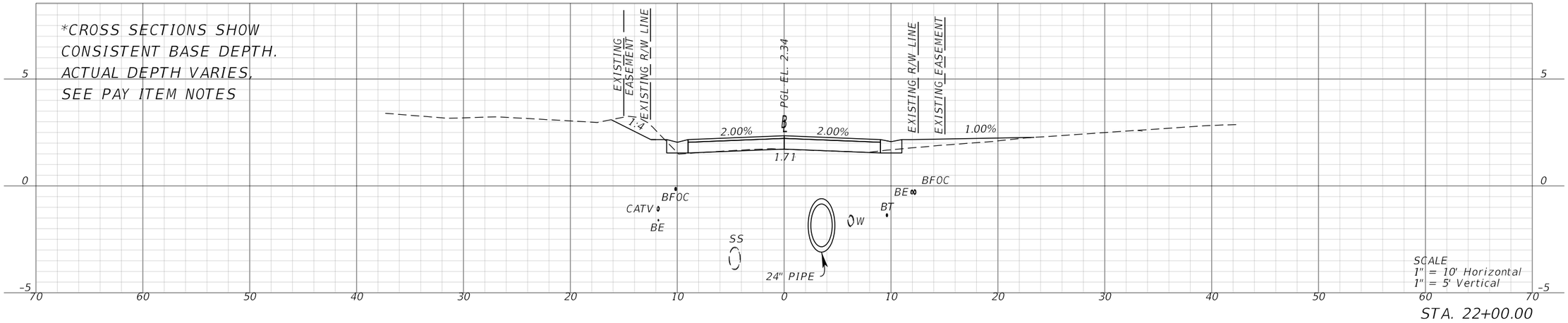
NORTON STREET

CROSS SECTIONS

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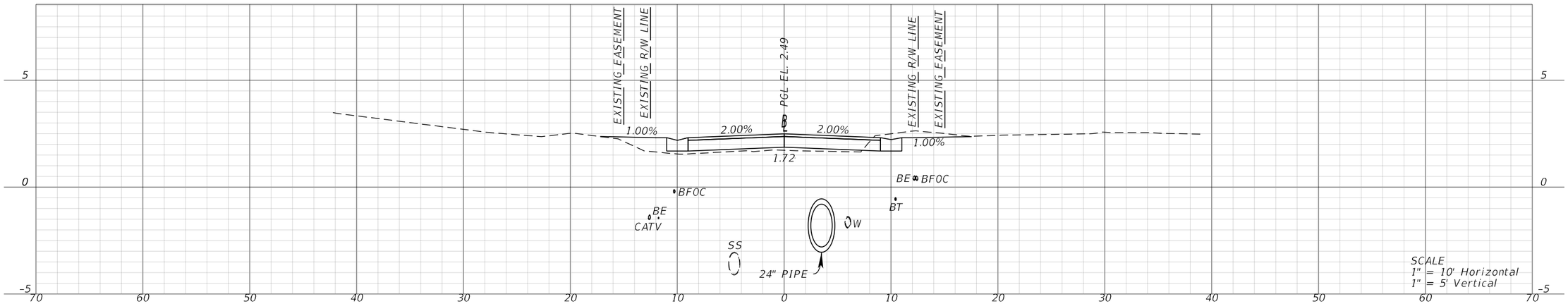
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*CROSS SECTIONS SHOW CONSISTENT BASE DEPTH. ACTUAL DEPTH VARIES, SEE PAY ITEM NOTES



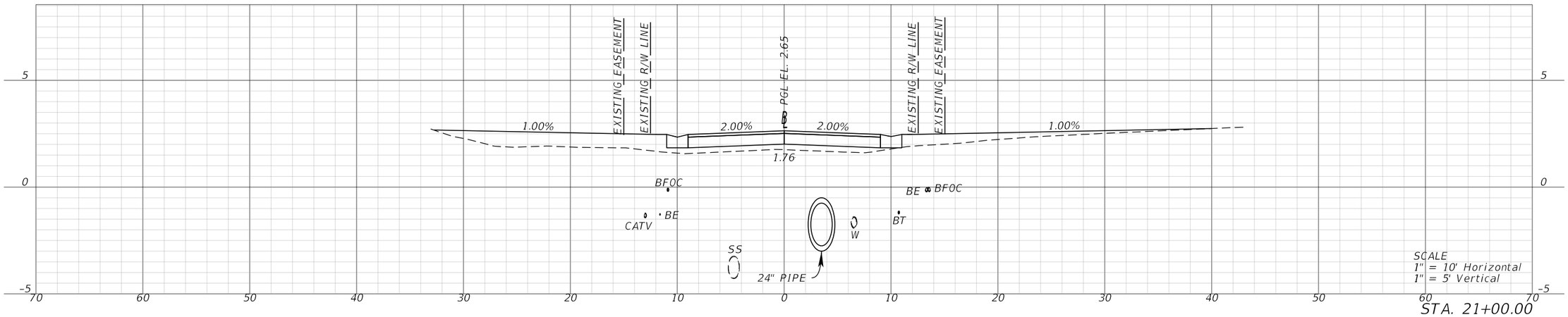
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STA. 22+00.00



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STA. 21+50.00



SCALE
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1" = 5' Vertical

STA. 21+00.00

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MOLLY CHARLENE WILLIAMS, P.E.
P.E. LICENSE NUMBER: 54281
1800 SECOND STREET, SUITE 900
SARASOTA, FL 34236
(941) 379-7600

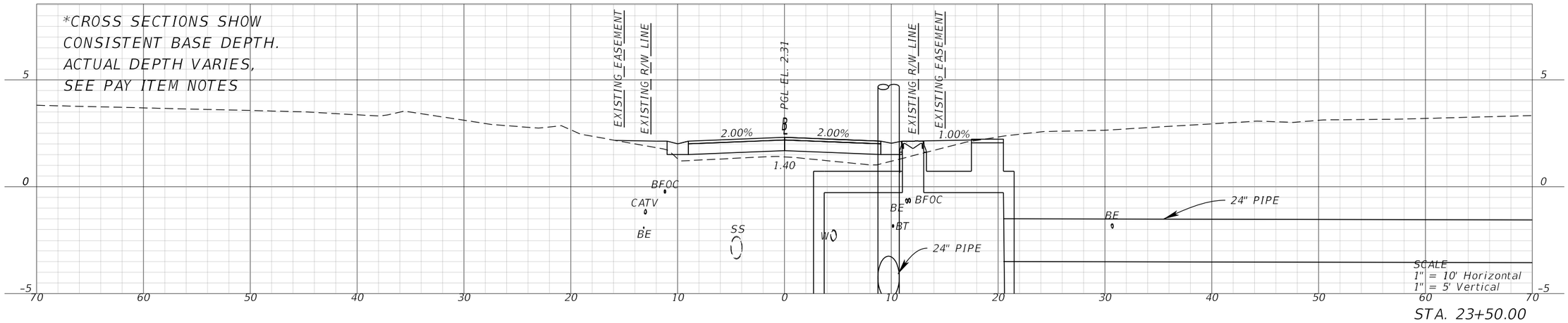
TOWN OF LONGBOAT KEY

NORTON STREET

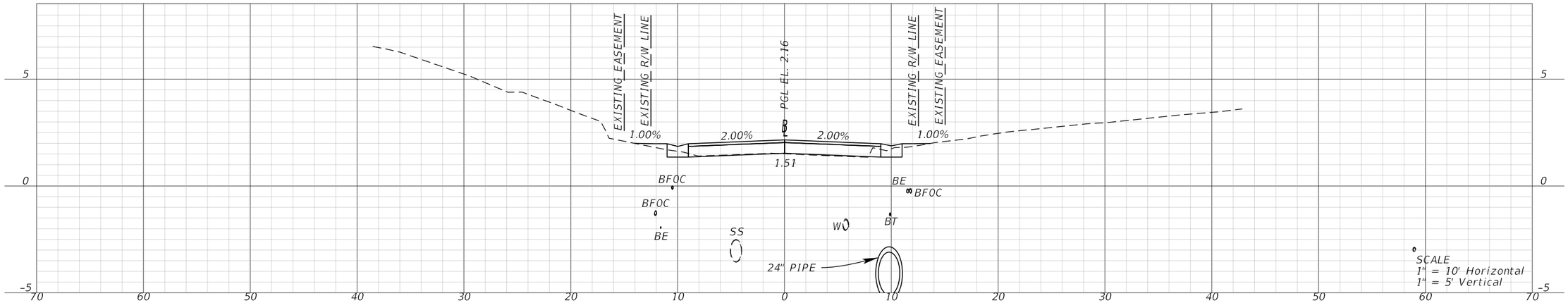
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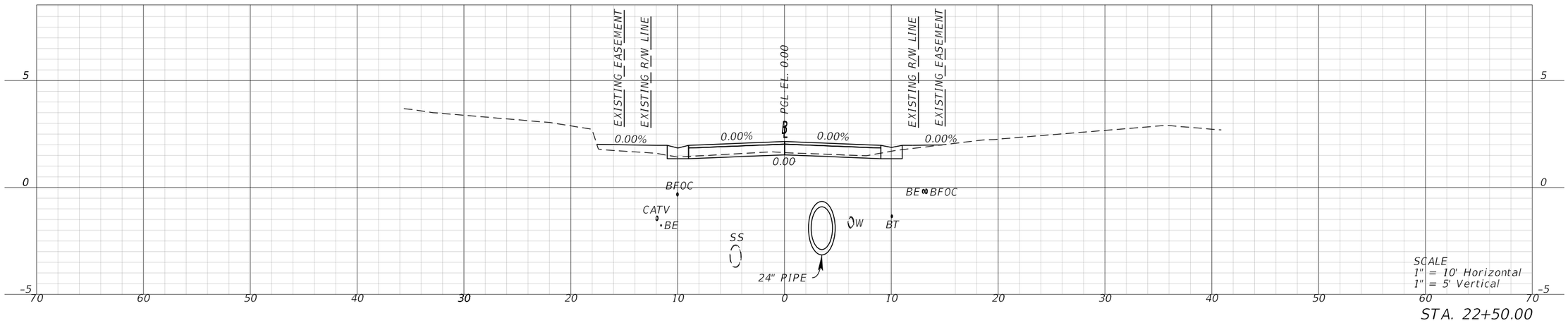
*CROSS SECTIONS SHOW CONSISTENT BASE DEPTH. ACTUAL DEPTH VARIES, SEE PAY ITEM NOTES



STA. 23+50.00



STA. 23+00.00



STA. 22+50.00

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Kimley»Horn
MOLLY CHARLENE WILLIAMS, P.E.
P.E. LICENSE NUMBER: 54281
1800 SECOND STREET, SUITE 900
SARASOTA, FL 34236
(941) 379-7600

TOWN OF LONGBOAT KEY

NORTON STREET

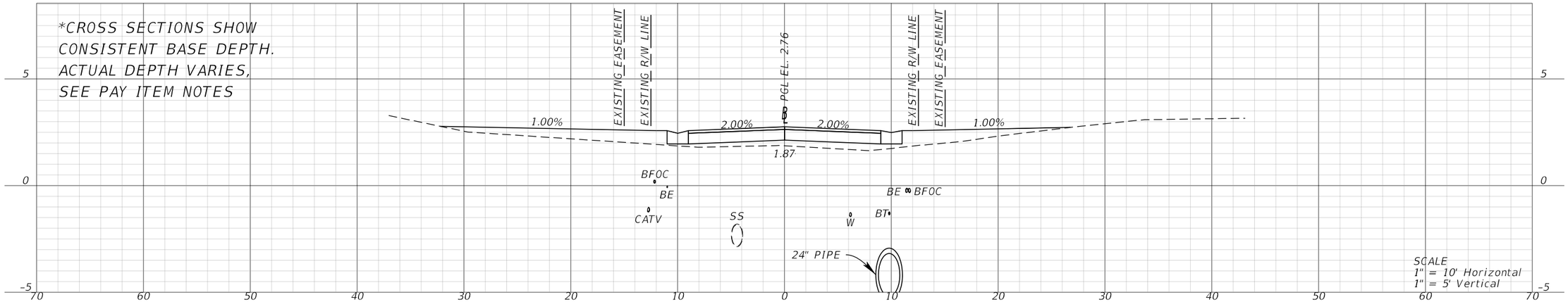
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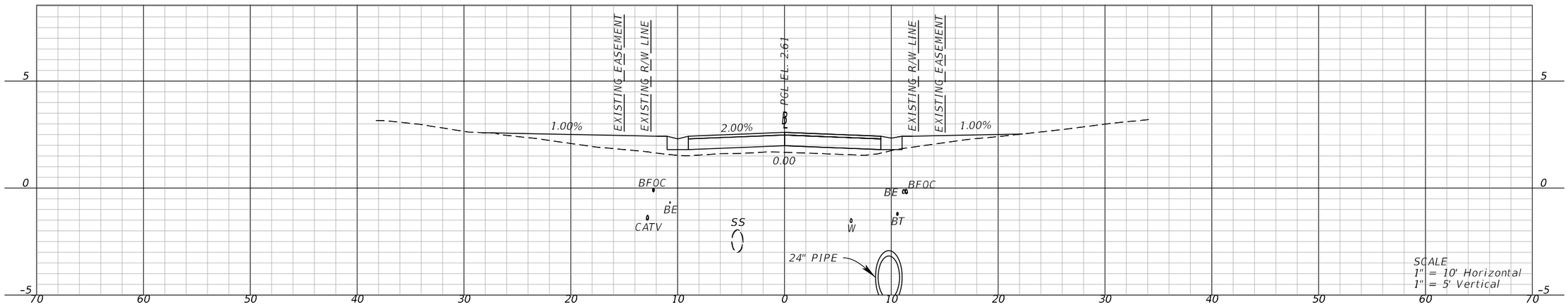
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

K:\SAR_Worksets\FDOT\148800021_Norton\Roadway\RDXSRD01_PT2.dgn : NORTON SURVEY BASELINE - 22+50.00 [SHEET]
Kevin.Brock 9/12/2025 9:46:15 AM

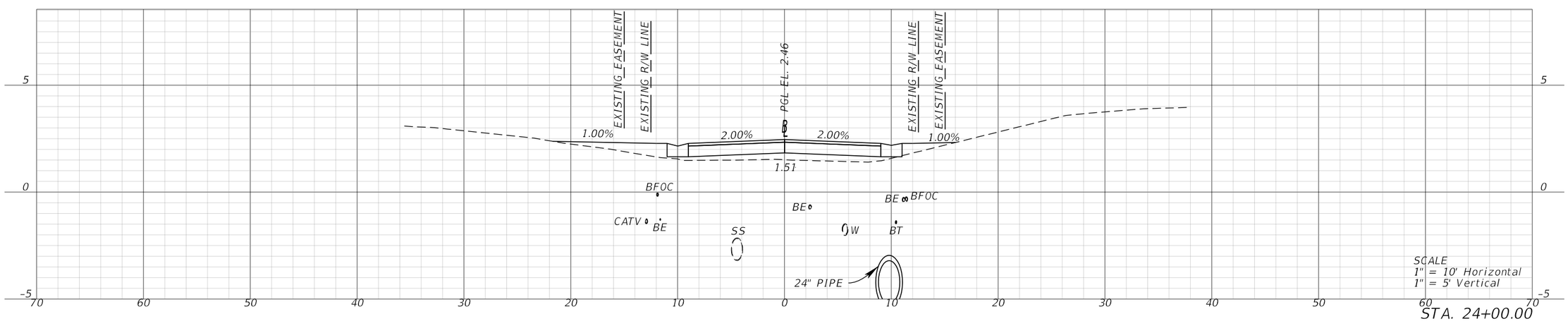
*CROSS SECTIONS SHOW CONSISTENT BASE DEPTH. ACTUAL DEPTH VARIES, SEE PAY ITEM NOTES



STA. 25+00.00



STA. 24+50.00



STA. 24+00.00

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Kimley»Horn
MOLLY CHARLENE WILLIAMS, P.E.
P.E. LICENSE NUMBER: 54281
1800 SECOND STREET, SUITE 900
SARASOTA, FL 34236
(941) 379-7600

TOWN OF LONGBOAT KEY

NORTON STREET

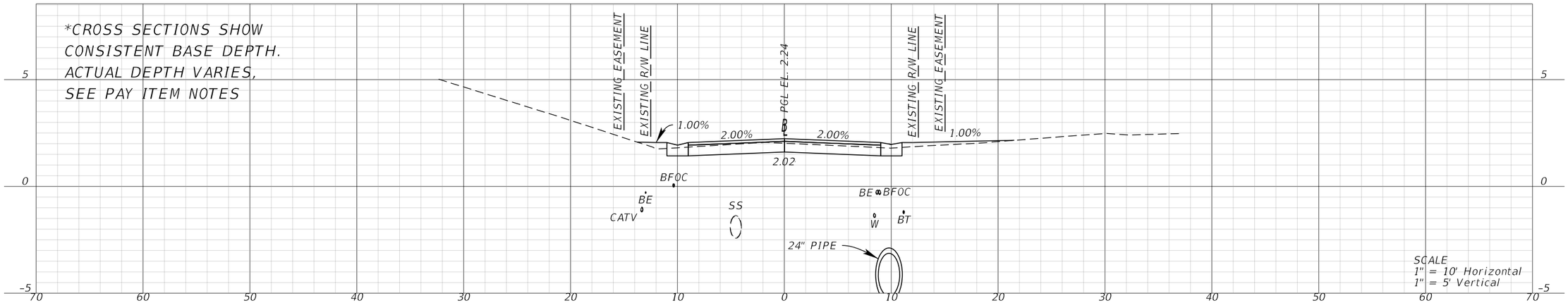
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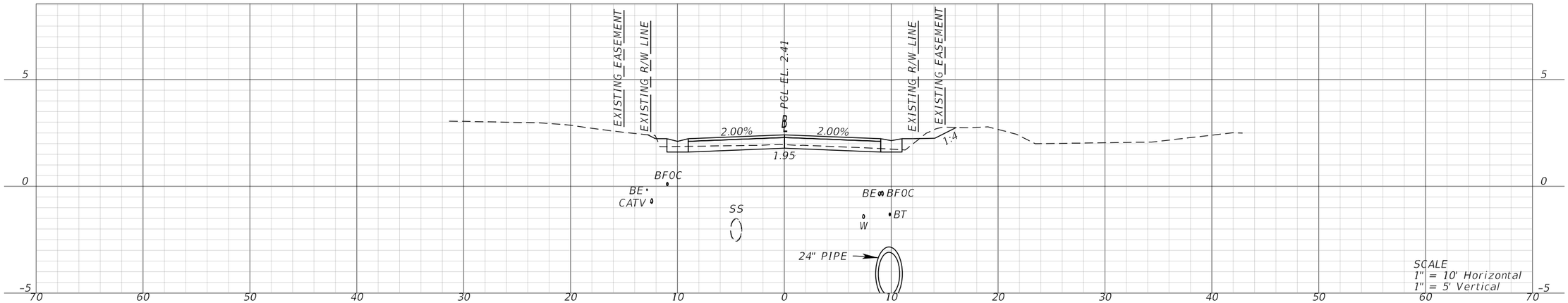
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Kaleigh.Cook 9/11/2025 11:26:42 AM

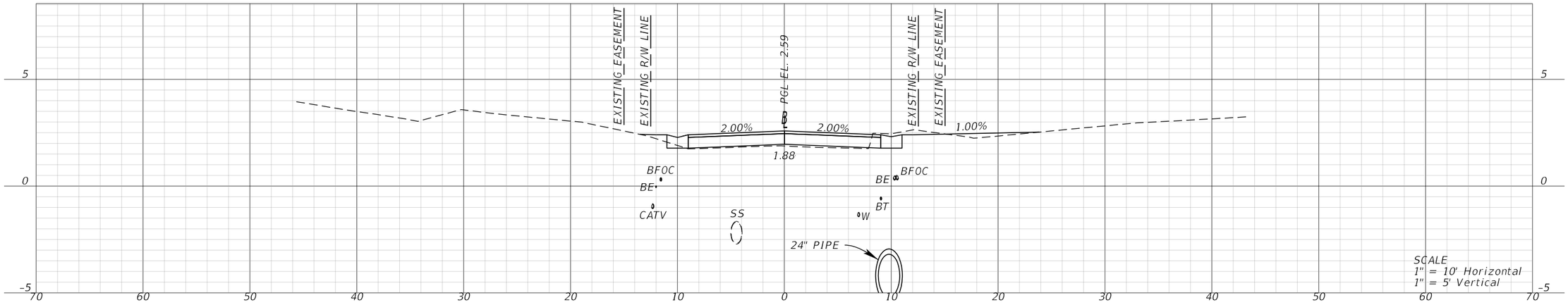
*CROSS SECTIONS SHOW CONSISTENT BASE DEPTH. ACTUAL DEPTH VARIES, SEE PAY ITEM NOTES



STA. 26+50.00



STA. 26+00.00



STA. 25+50.00

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Kimley»Horn

MOLLY CHARLENE WILLIAMS, P.E.
P.E. LICENSE NUMBER: 54281
1800 SECOND STREET, SUITE 900
SARASOTA, FL 34236
(941) 379-7600

TOWN OF LONGBOAT KEY

NORTON STREET

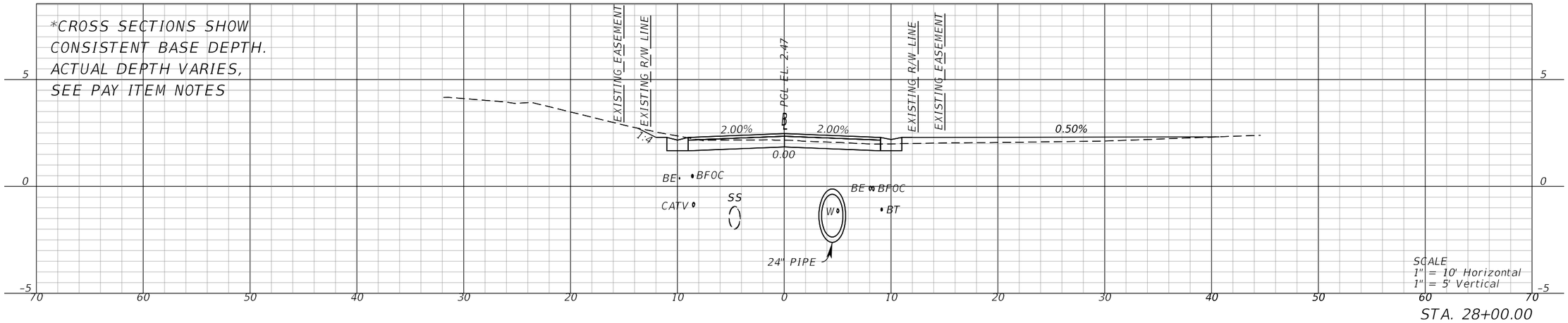
CROSS SECTIONS

SHEET NO.

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

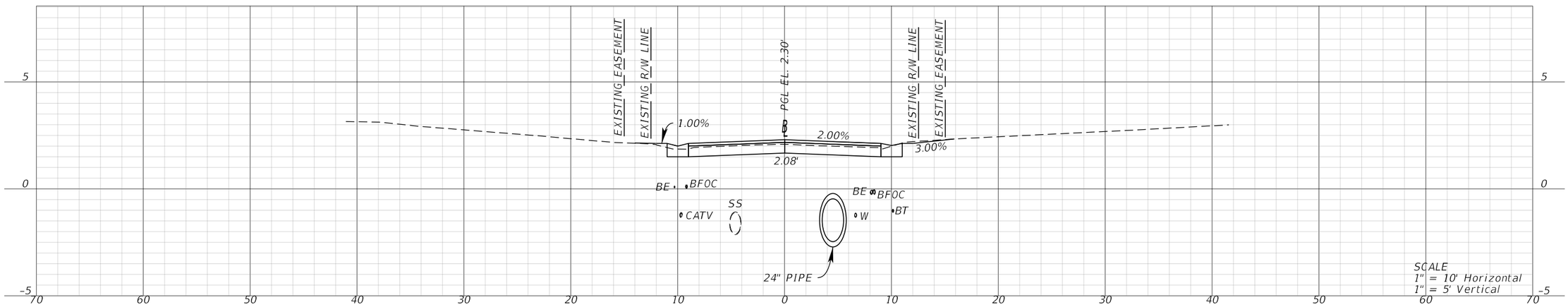
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Kaleigh.Cook 9/11/2025 11:26:52 AM

*CROSS SECTIONS SHOW CONSISTENT BASE DEPTH. ACTUAL DEPTH VARIES, SEE PAY ITEM NOTES



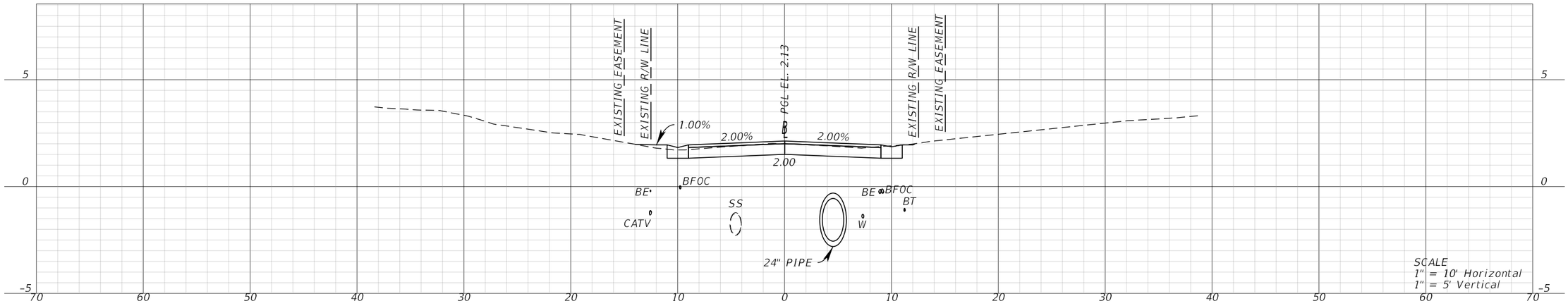
SCALE
1" = 10' Horizontal
1" = 5' Vertical

STA. 28+00.00



SCALE
1" = 10' Horizontal
1" = 5' Vertical

STA. 27+50.00



SCALE
1" = 10' Horizontal
1" = 5' Vertical

STA. 27+00.00

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Kimley»Horn
MOLLY CHARLENE WILLIAMS, P.E.
P.E. LICENSE NUMBER: 54281
1800 SECOND STREET, SUITE 900
SARASOTA, FL 34236
(941) 379-7600

TOWN OF LONGBOAT KEY

NORTON STREET

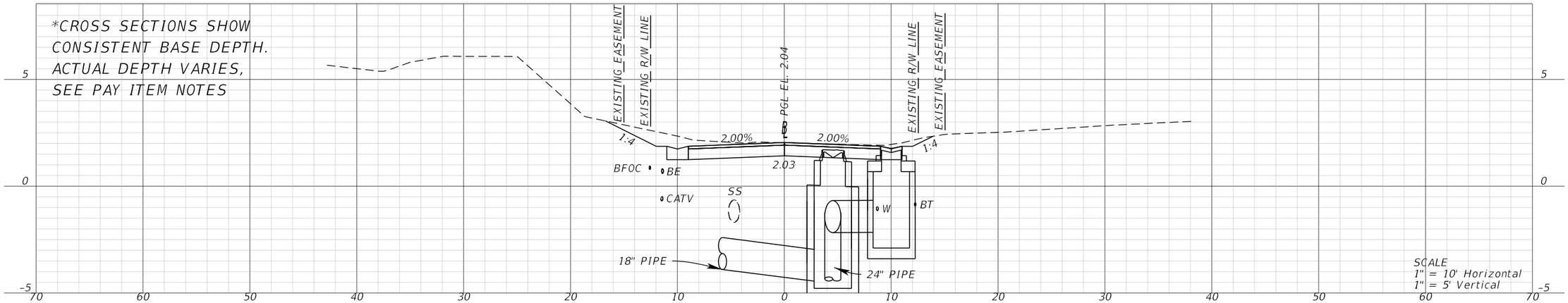
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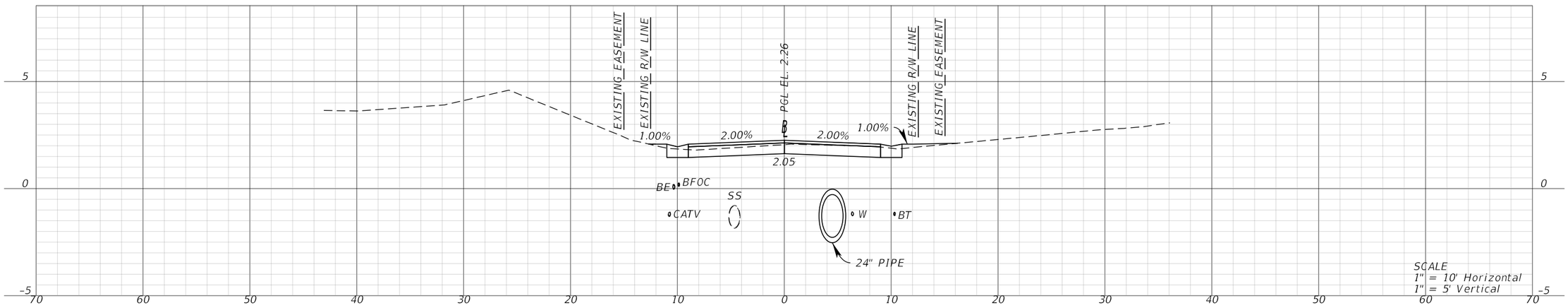
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

K:\SAR_Worksets\FDOT\148800021_Norton\Roadway\RDXSRD01_PT2.dgn : NORTON SURVEY BASELINE - 27+00.00 [SHEET]
Kaleigh.Cook 9/11/2025 11:27:02 AM

*CROSS SECTIONS SHOW CONSISTENT BASE DEPTH. ACTUAL DEPTH VARIES, SEE PAY ITEM NOTES



STA. 29+00.00



STA. 28+50.00

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Kimley»Horn
MOLLY CHARLENE WILLIAMS, P.E.
P.E. LICENSE NUMBER: 54281
1800 SECOND STREET, SUITE 900
SARASOTA, FL 34236
(941) 379-7600

TOWN OF LONGBOAT KEY

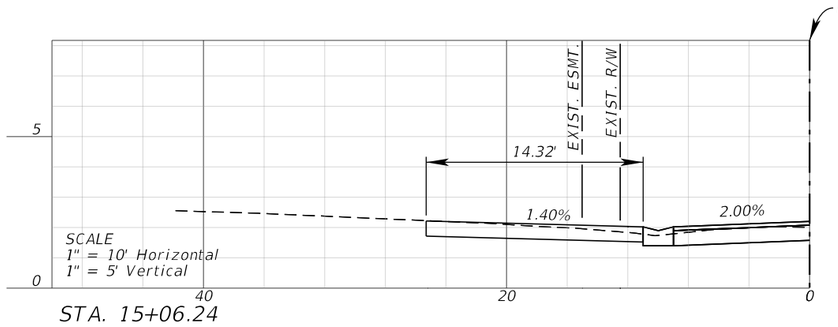
NORTON STREET

CROSS SECTIONS

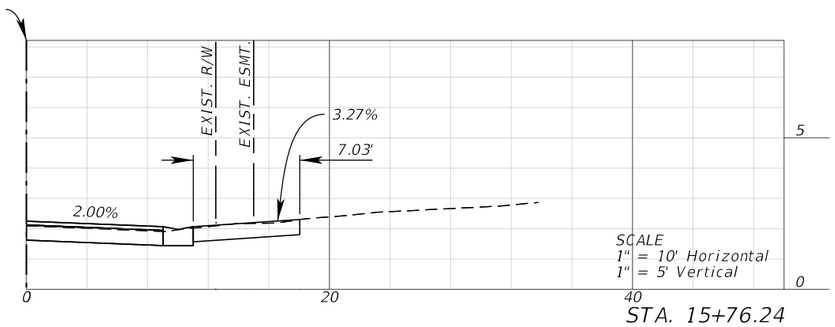
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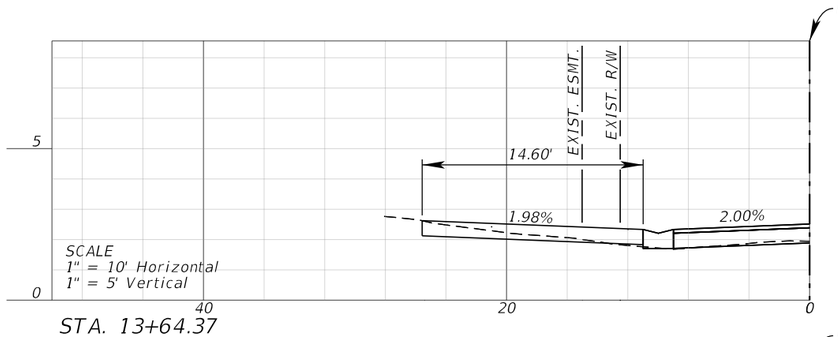
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Kaleigh.Cook 9/11/2025 11:27:10 AM



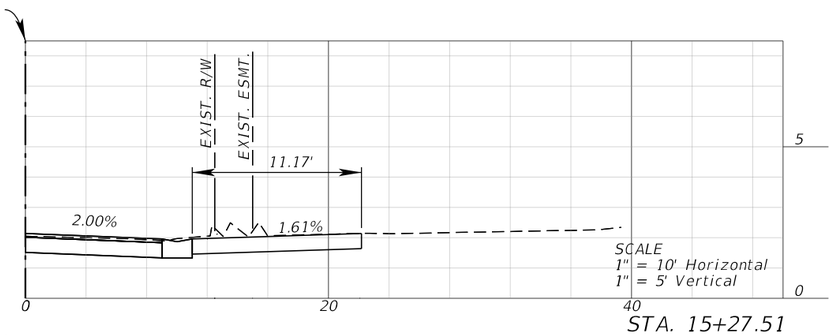
STA. 15+06.24



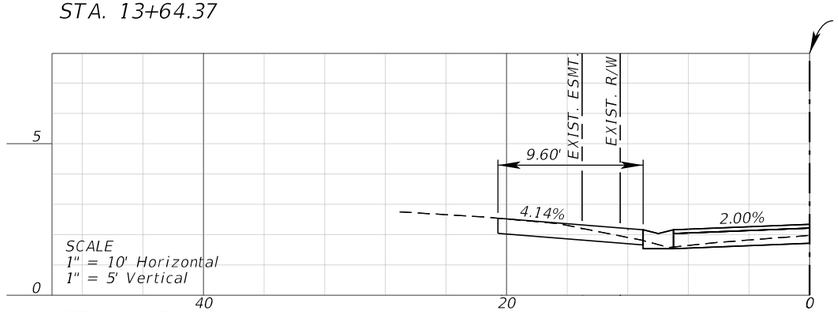
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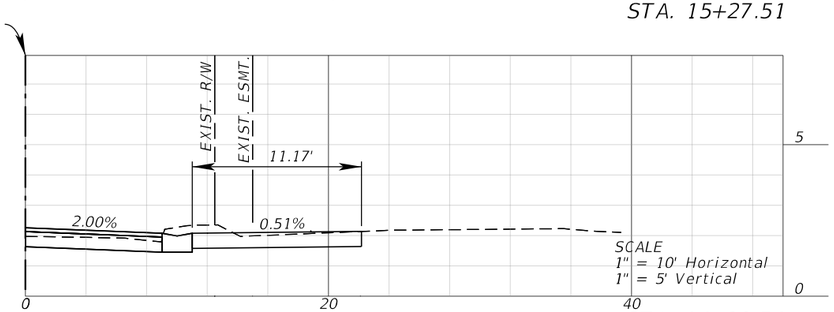
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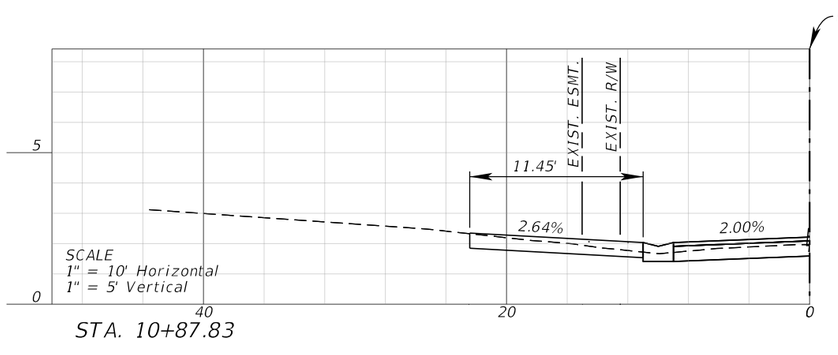
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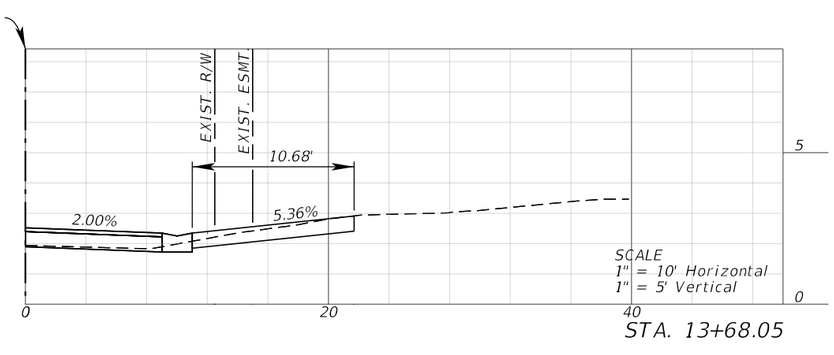
STA. 11+74.09



STA. 14+90.54



STA. 10+87.83



STA. 13+68.05

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Kimley»Horn

MOLLY CHARLENE WILLIAMS, P.E.
P.E. LICENSE NUMBER: 54201
1800 SECOND STREET, SUITE 900
SARASOTA, FL 34236
(941) 379-7600

TOWN OF LONGBOAT KEY

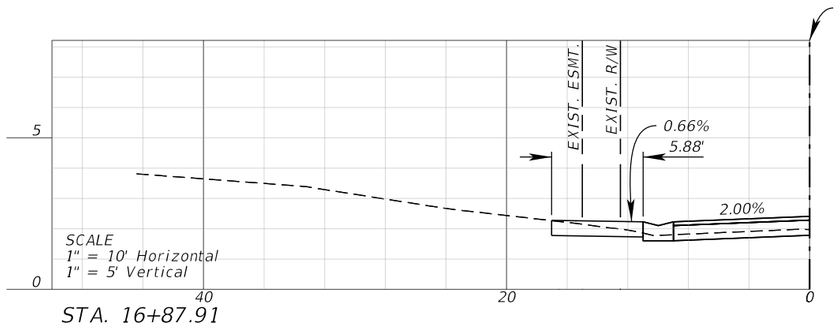
NORTON STREET

DRIVEWAY HALF SECTIONS

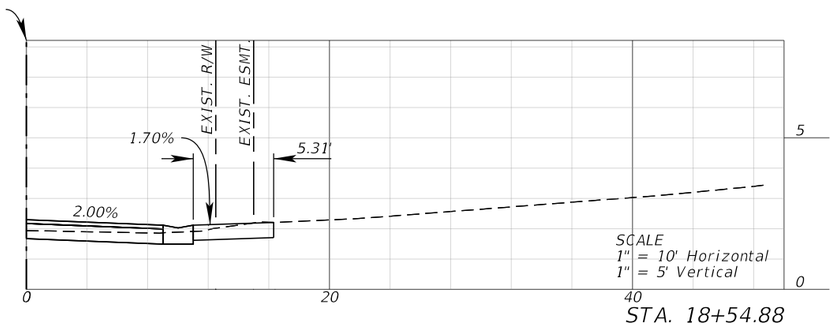
SHEET NO. 35

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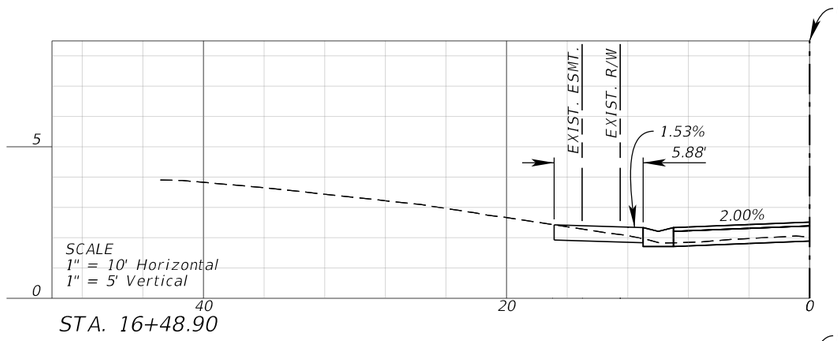
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Kaleigh.Cook 9/10/2025 11:55:44 AM



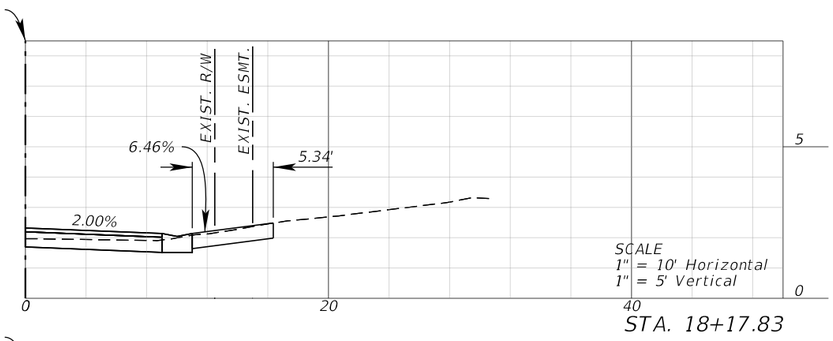
STA. 16+87.91



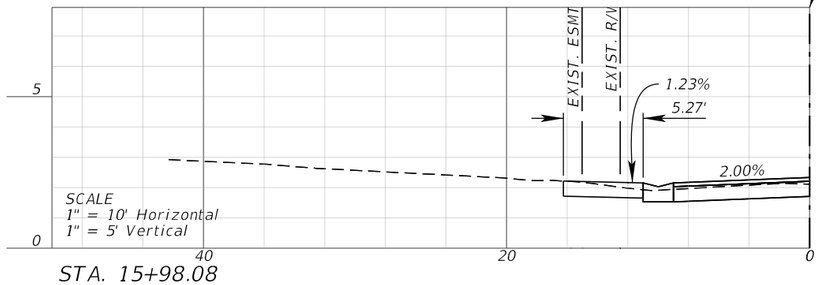
STA. 18+54.88



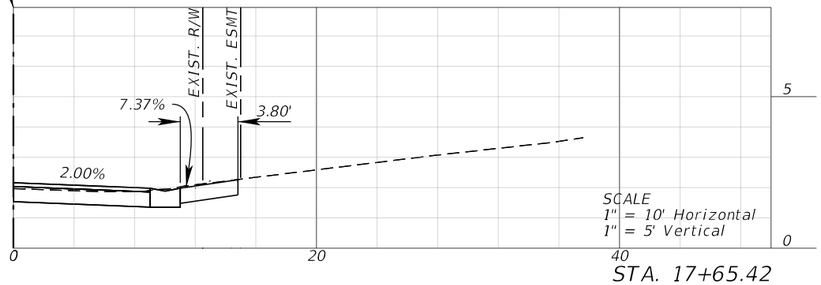
STA. 16+48.90



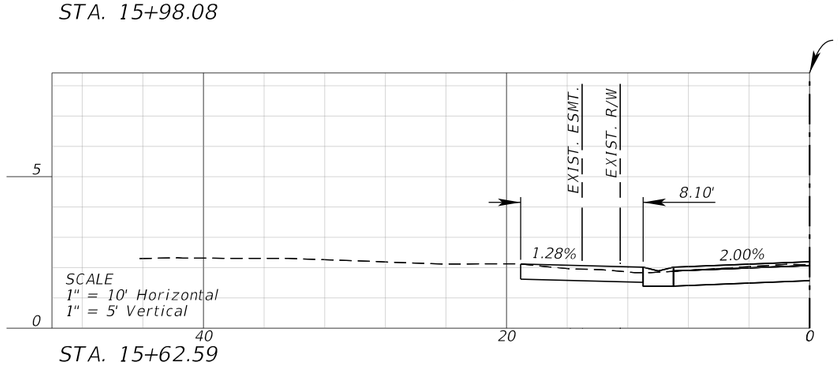
STA. 18+17.83



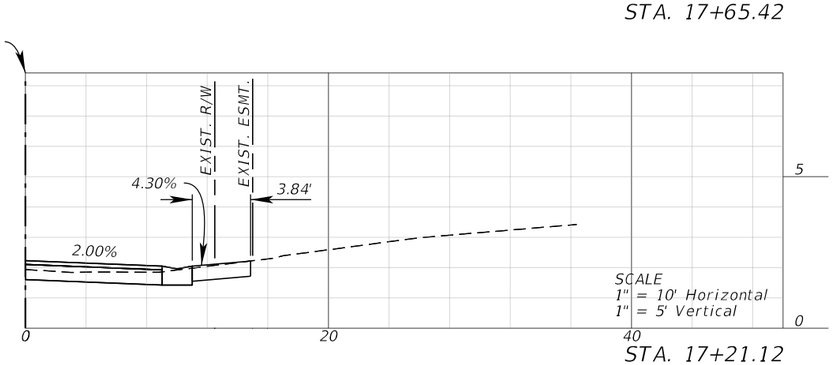
STA. 15+98.08



STA. 17+65.42



STA. 15+62.59



STA. 17+21.12

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Kimley»Horn

MOLLY CHARLENE WILLIAMS, P.E.
P.E. LICENSE NUMBER: 54281
1800 SECOND STREET, SUITE 900
SARASOTA, FL 34236
(941) 379-7600

TOWN OF LONGBOAT KEY

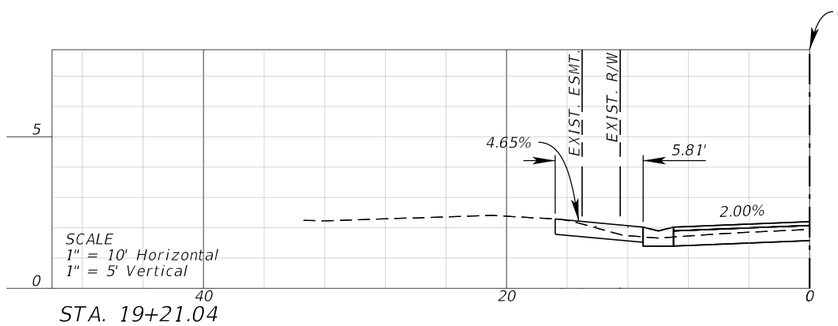
NORTON STREET

DRIVEWAY HALF SECTIONS

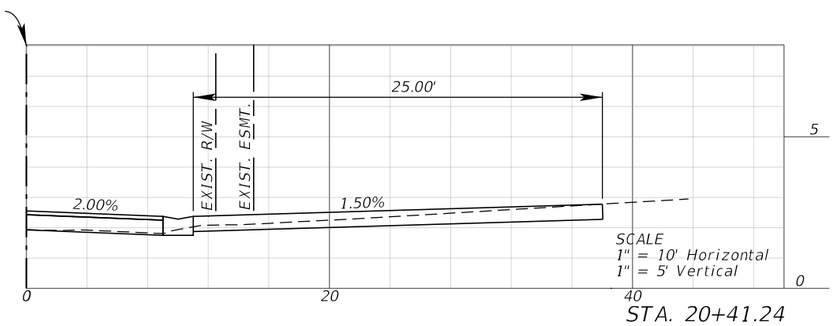
SHEET NO. 36

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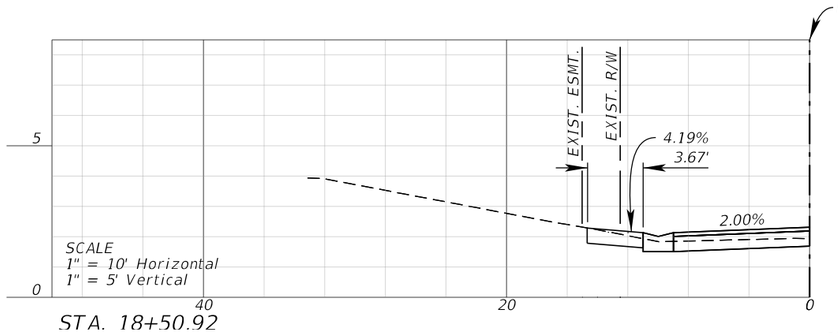
K:\SAR_Worksets\FDOT\148800021_Norton\Roadway\RDXSRD05_DWY.dgn : DWY HALF SECTIONS - [SHEET 2]
Kaleigh.Cook 9/10/2025 12:01:17 PM



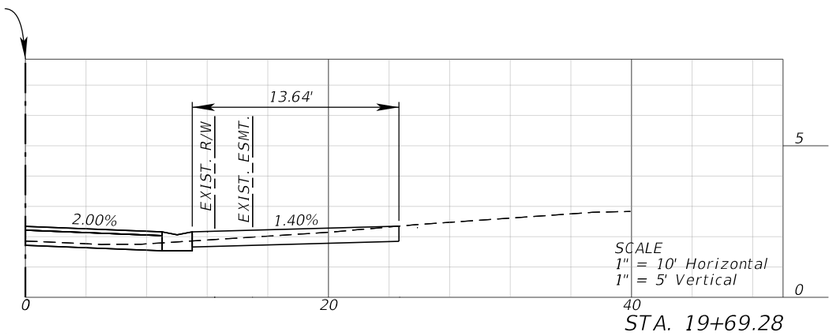
STA. 19+21.04



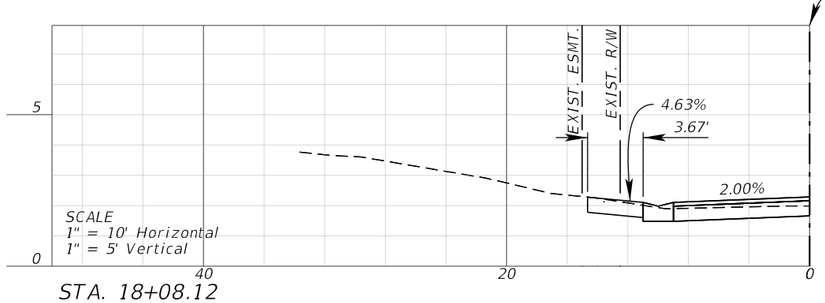
STA. 20+41.24



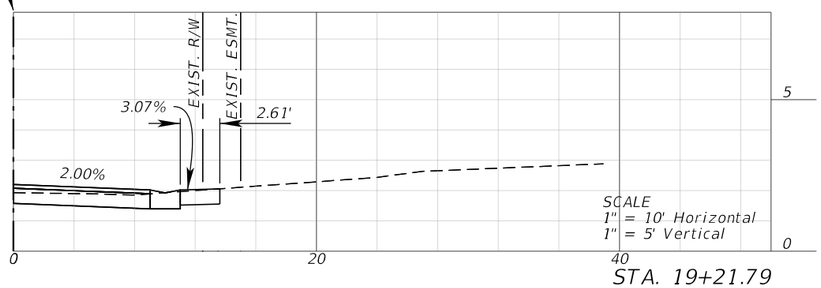
STA. 18+50.92



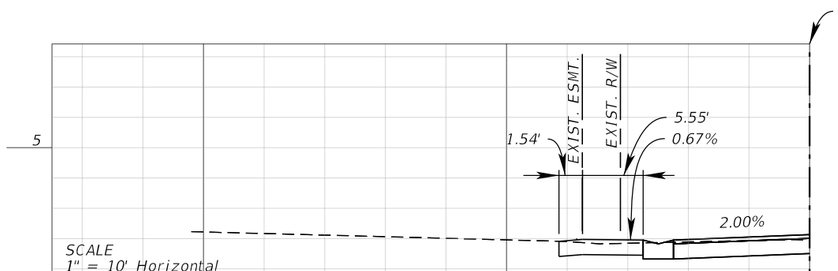
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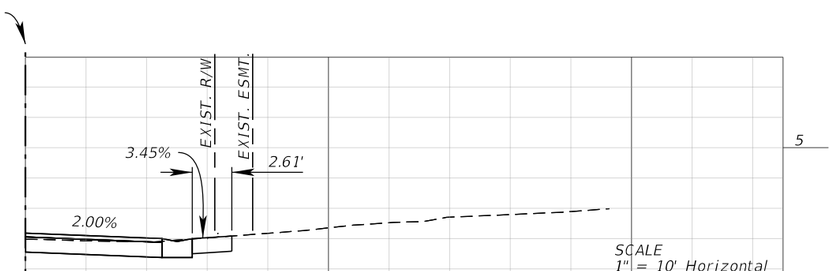
STA. 18+08.12



STA. 19+21.79



STA. 17+44.28



STA. 18+92.90

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

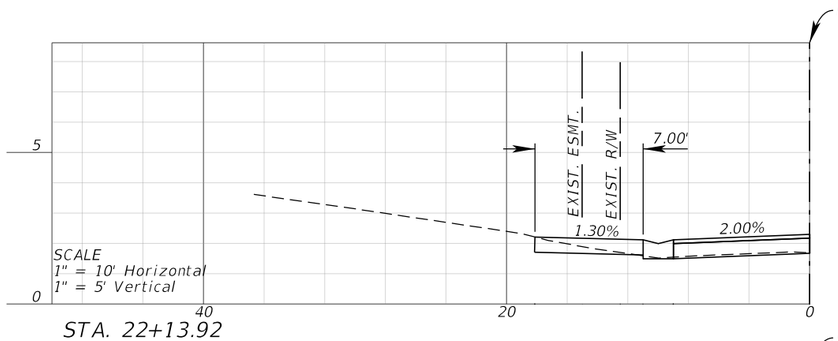
Kimley»Horn
MOLLY CHARLENE WILLIAMS, P.E.
P.E. LICENSE NUMBER: 54281
1800 SECOND STREET, SUITE 900
SARASOTA, FL 34236
(941) 379-7600

TOWN OF LONGBOAT KEY

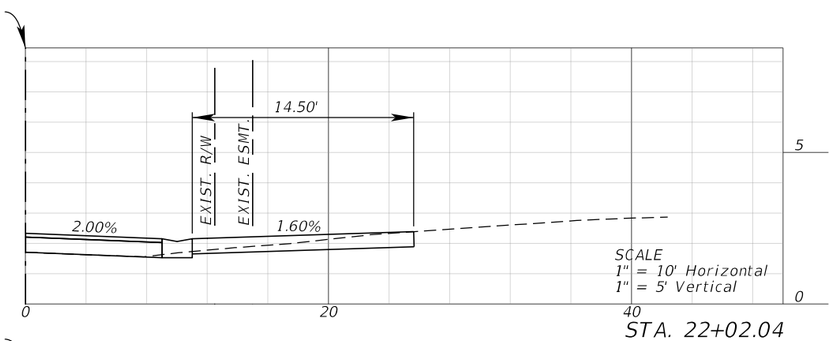
NORTON STREET

DRIVEWAY HALF SECTIONS

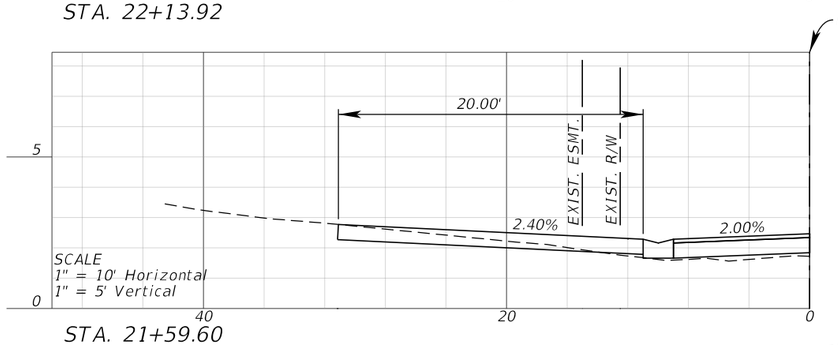
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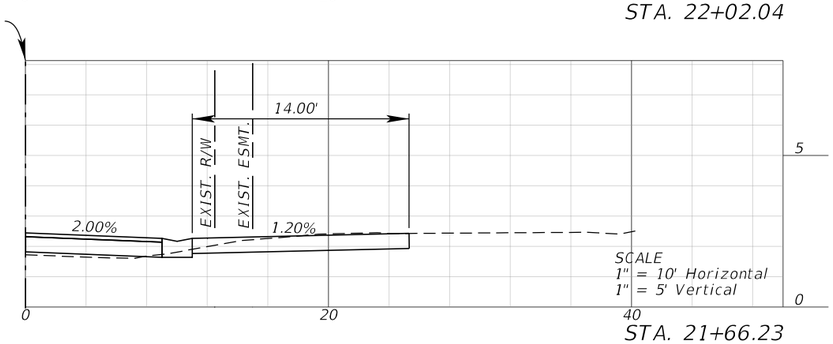
STA. 22+13.92



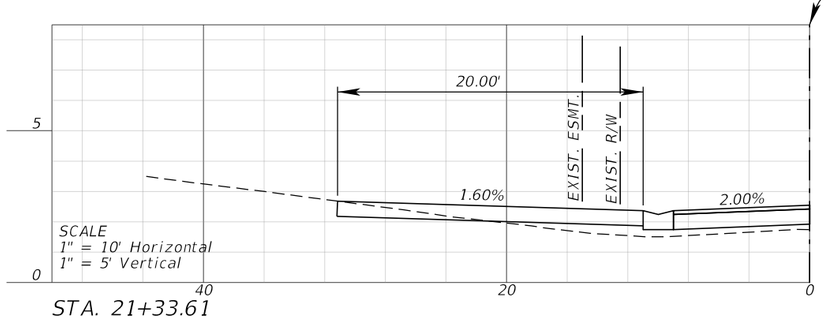
STA. 22+02.04



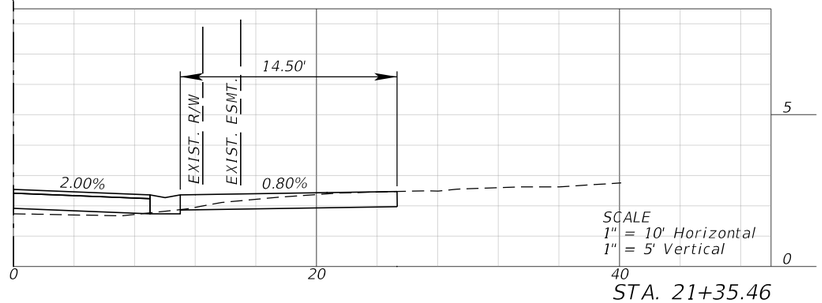
STA. 21+59.60



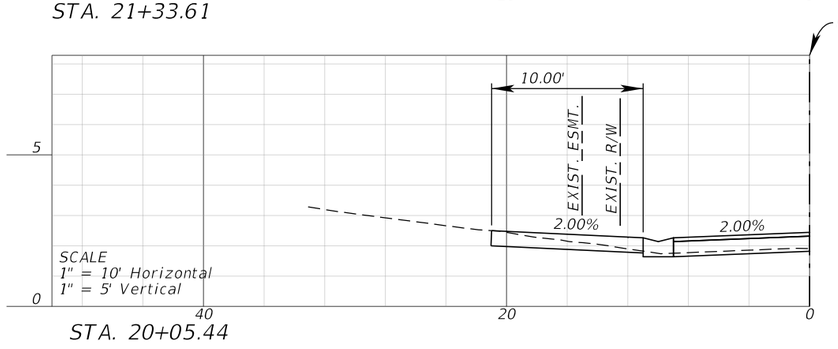
STA. 21+66.23



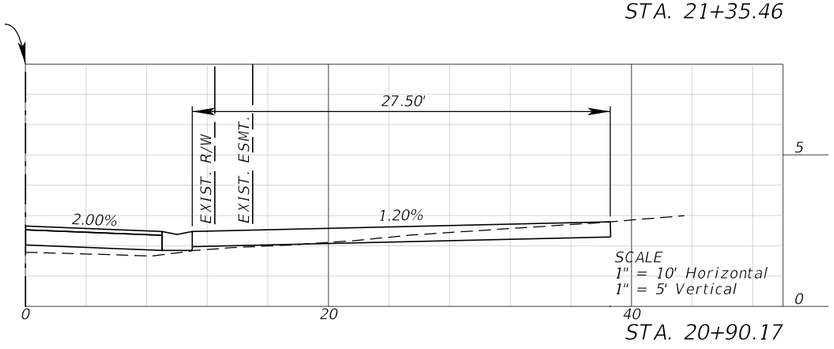
STA. 21+33.61



STA. 21+35.46



STA. 20+05.44



STA. 20+90.17

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Kimley»Horn

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SARASOTA, FL 34236
(941) 379-7600

TOWN OF LONGBOAT KEY

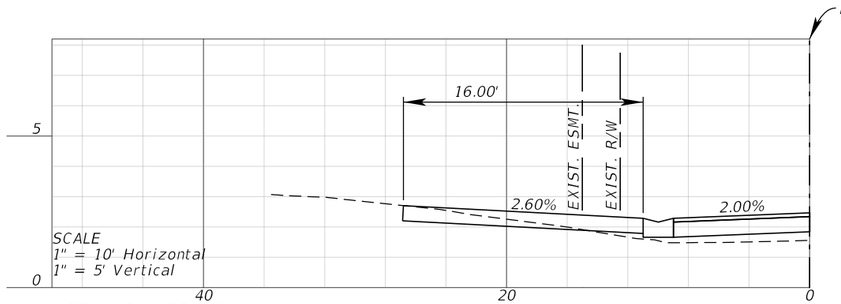
NORTON STREET

DRIVEWAY HALF SECTIONS

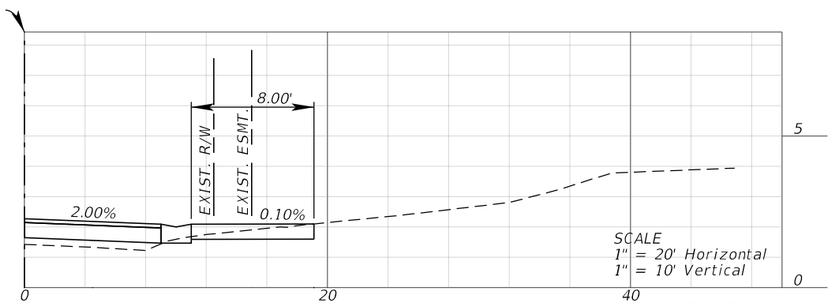
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Kaleigh.Cook 9/10/2025 12:09:23 PM



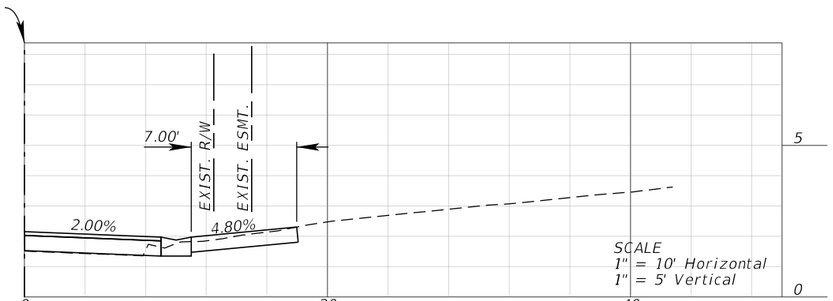
STA. 24+02.77



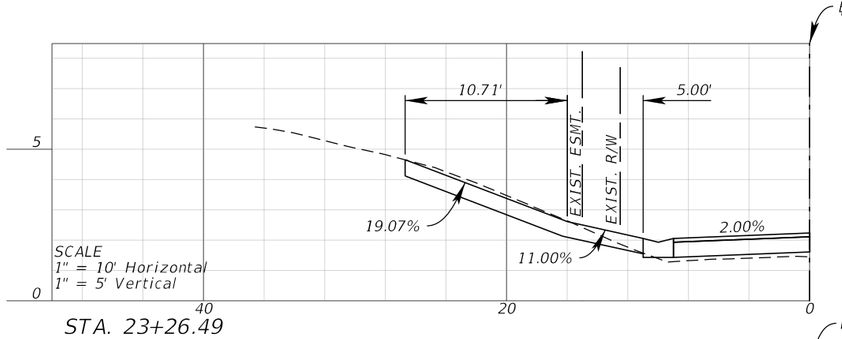
STA. 23+37.47



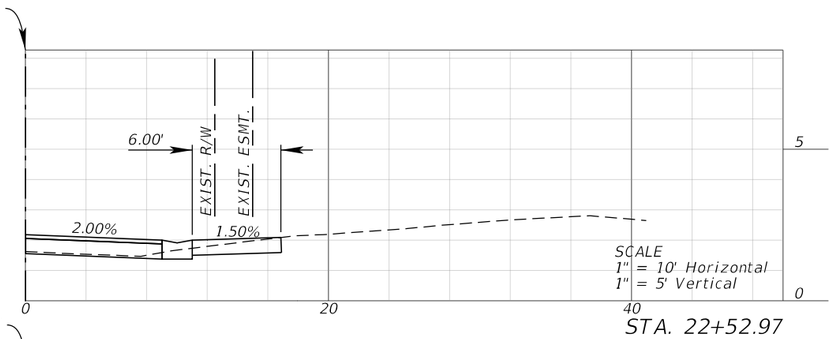
STA. 23+66.30



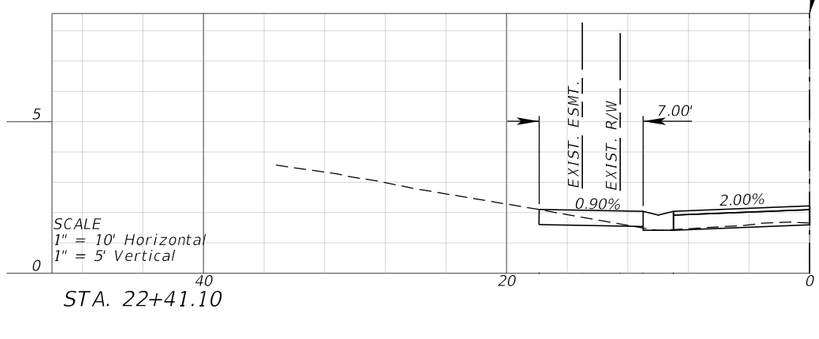
STA. 22+97.14



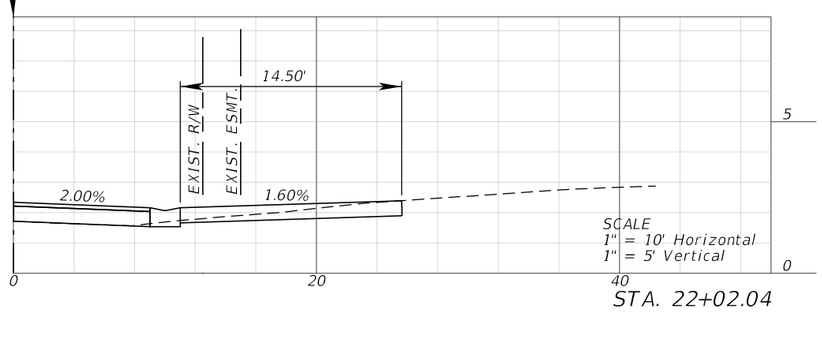
STA. 23+26.49



STA. 22+52.97



STA. 22+41.10



STA. 22+02.04

REVISIONS			
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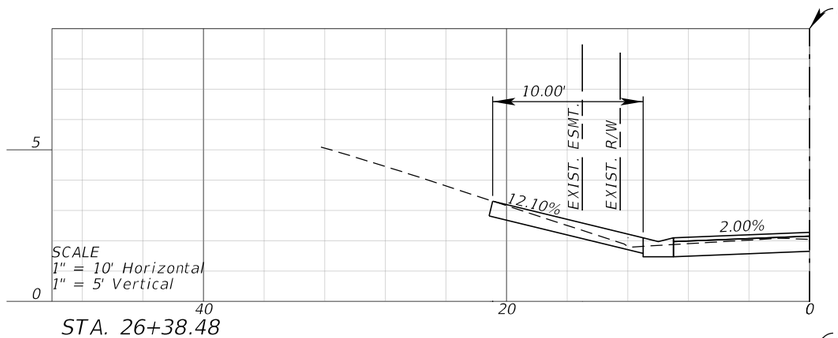
TOWN OF LONGBOAT KEY

NORTON STREET

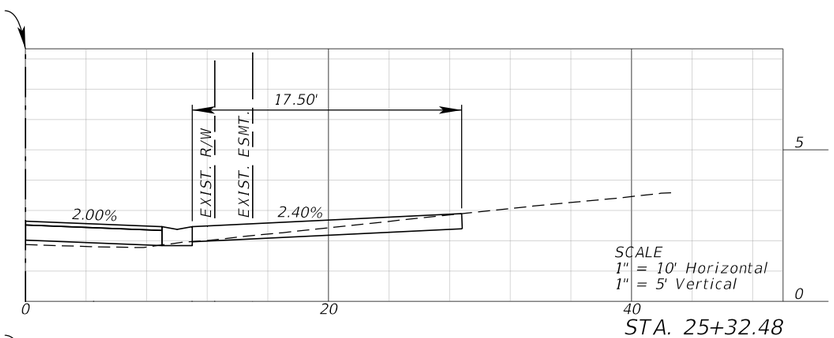
DRIVEWAY HALF SECTIONS

SHEET NO. 39

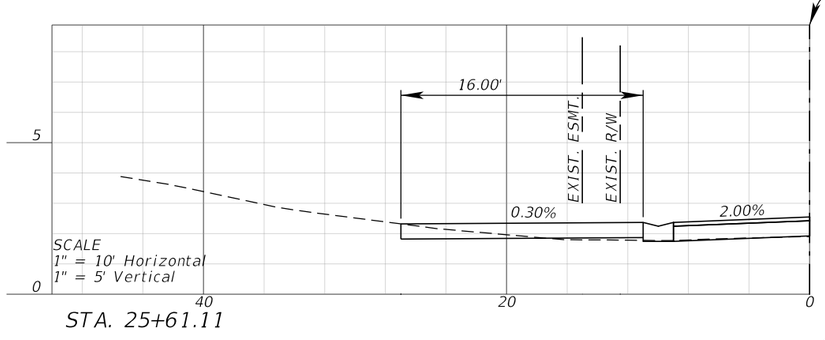
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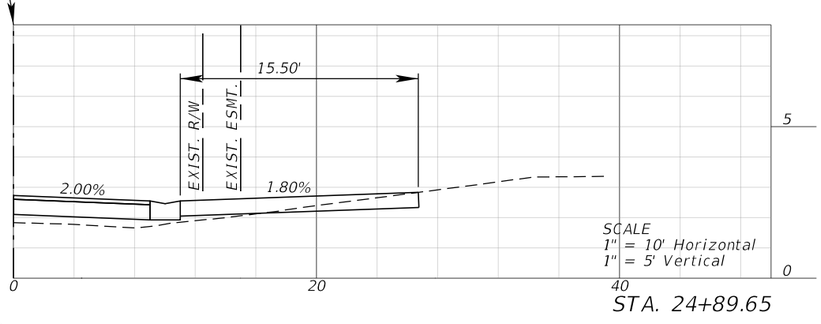
STA. 26+38.48



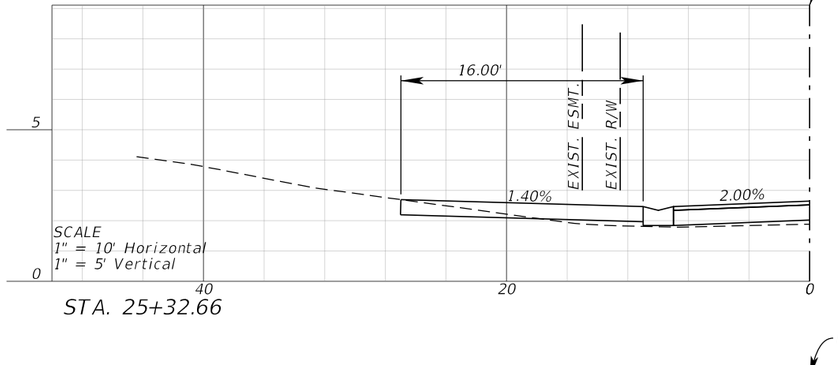
STA. 25+32.48



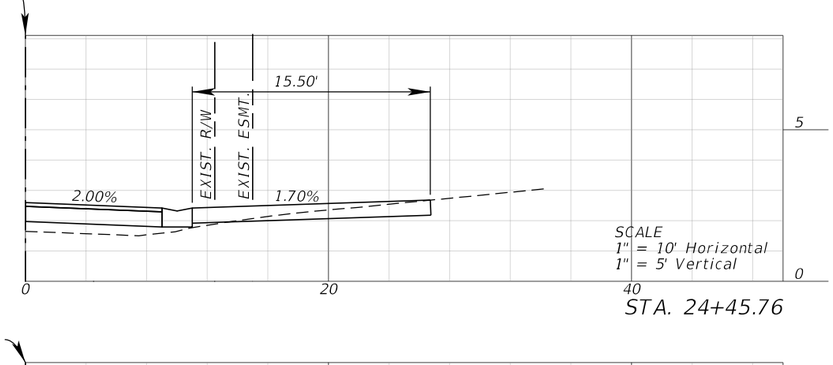
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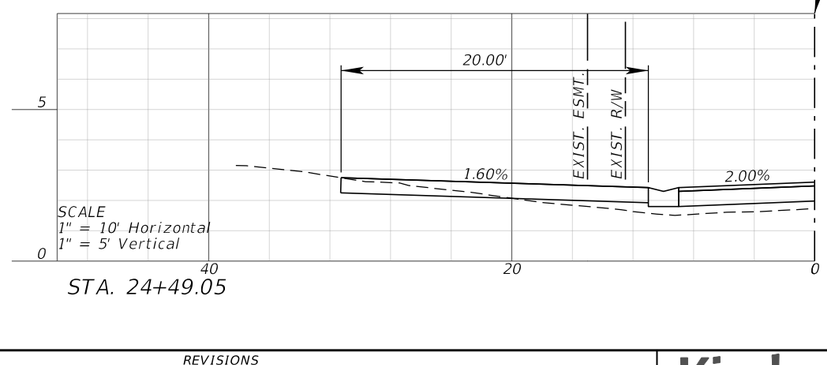
STA. 24+89.65



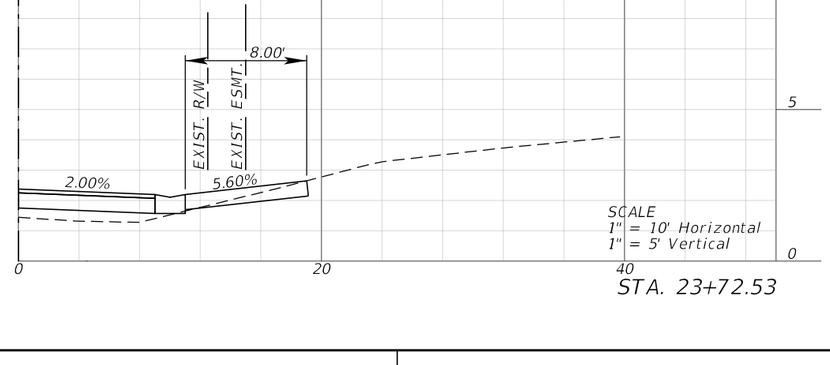
STA. 25+32.66



STA. 24+45.76



STA. 24+49.05



STA. 23+72.53

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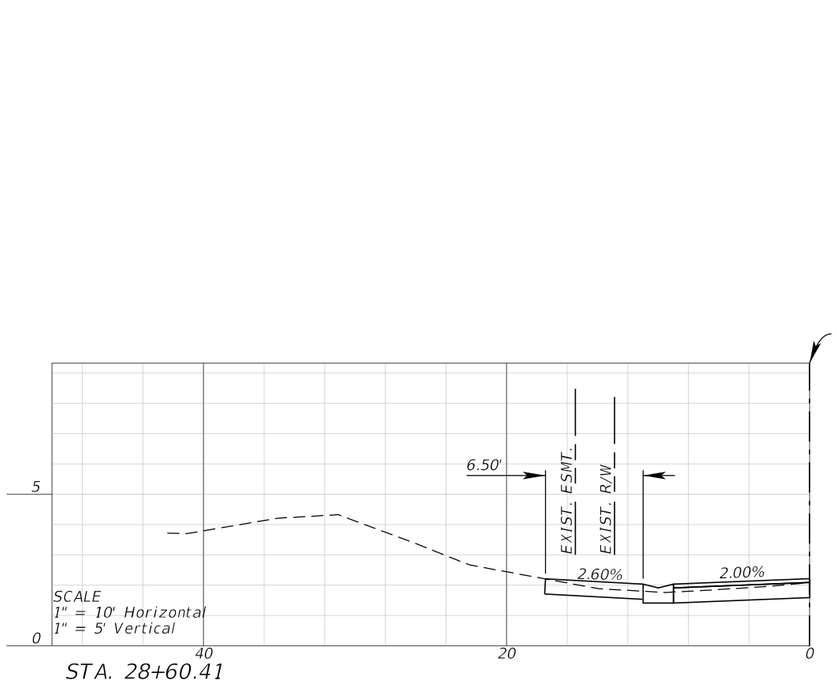
Kimley»Horn
MOLLY CHARLENE WILLIAMS, P.E.
P.E. LICENSE NUMBER: 54281
1800 SECOND STREET, SUITE 900
SARASOTA, FL 34236
(941) 379-7600

TOWN OF LONGBOAT KEY

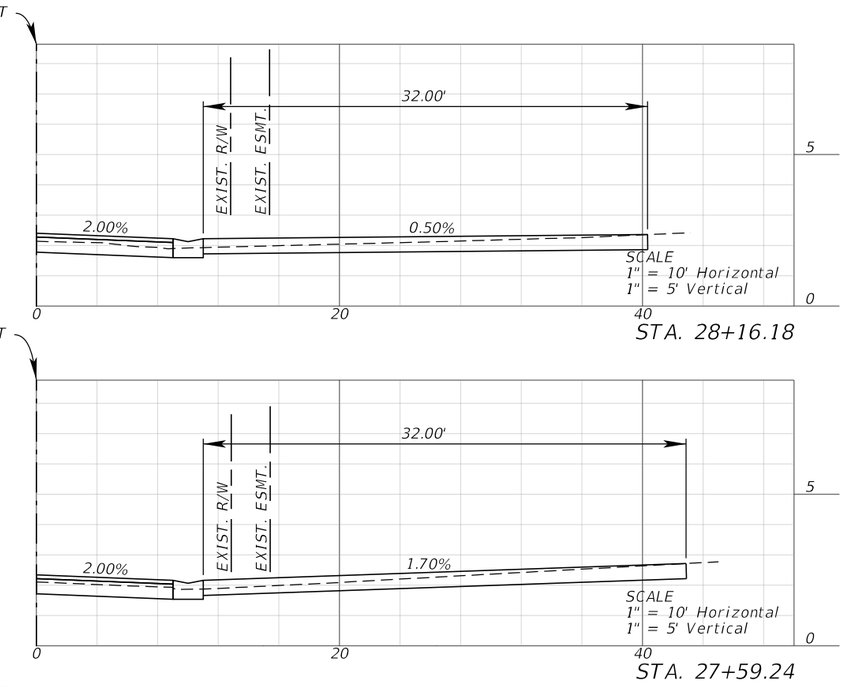
NORTON STREET

DRIVEWAY HALF SECTIONS

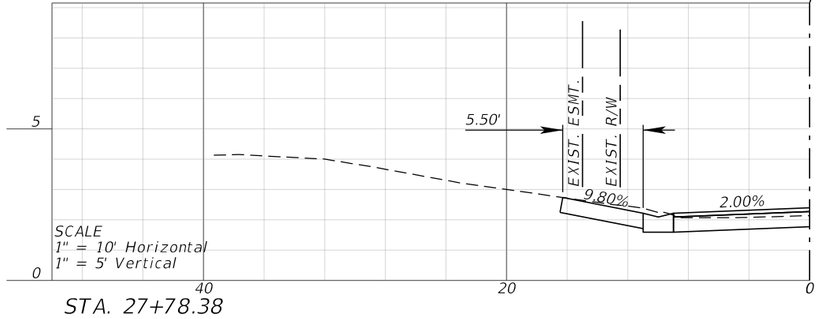
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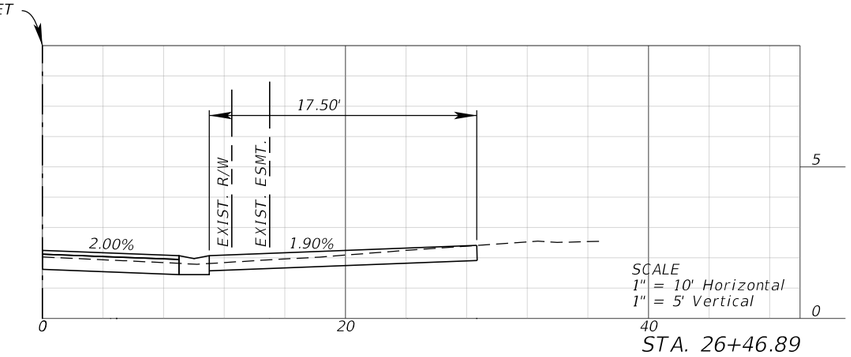
STA. 28+60.41



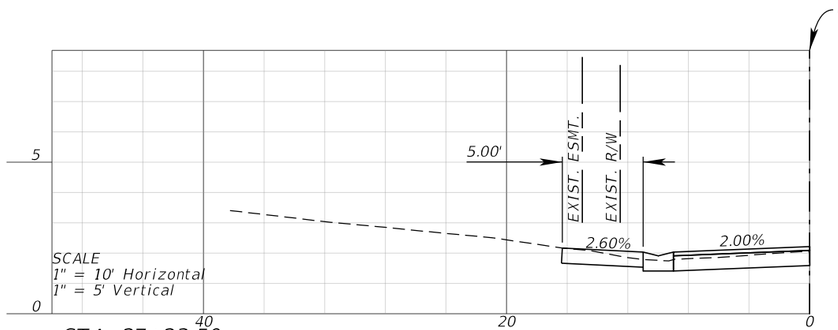
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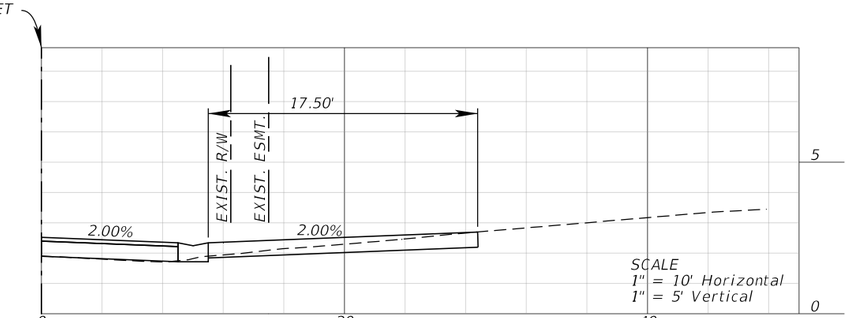
STA. 27+78.38



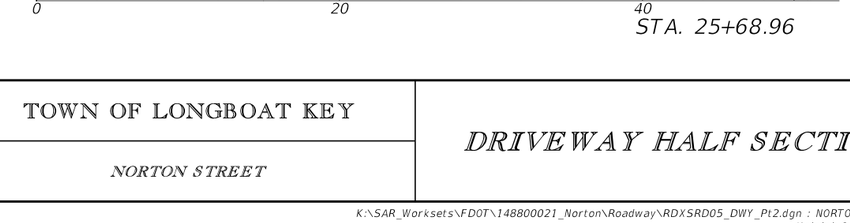
STA. 27+59.24



STA. 27+23.50



STA. 26+46.89



STA. 25+68.96

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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TOWN OF LONGBOAT KEY

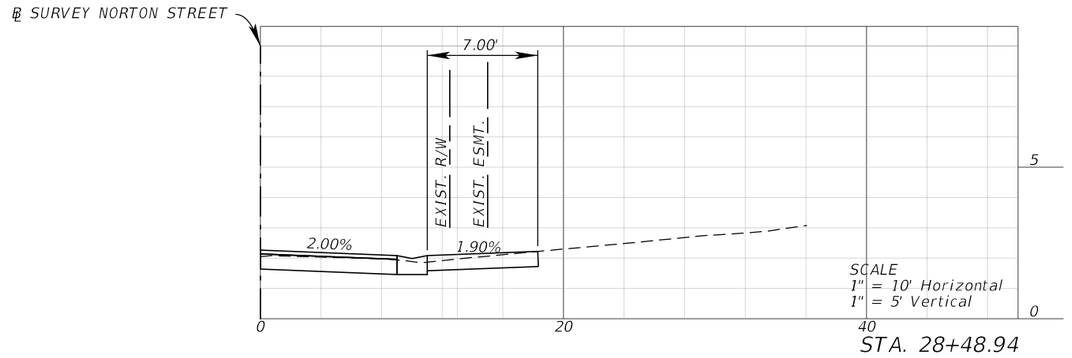
NORTON STREET

DRIVEWAY HALF SECTIONS

SHEET NO. 41

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K:\SAR_Worksets\FDOT\148800021_Norton\Roadway\RDXSRD05_DWY_Pt2.dgn : NORTON DWY HALF SECTIONS-4 - [SHEET]
Kaleigh.Cook 9/10/2025 12:10:32 PM



STA. 28+48.94

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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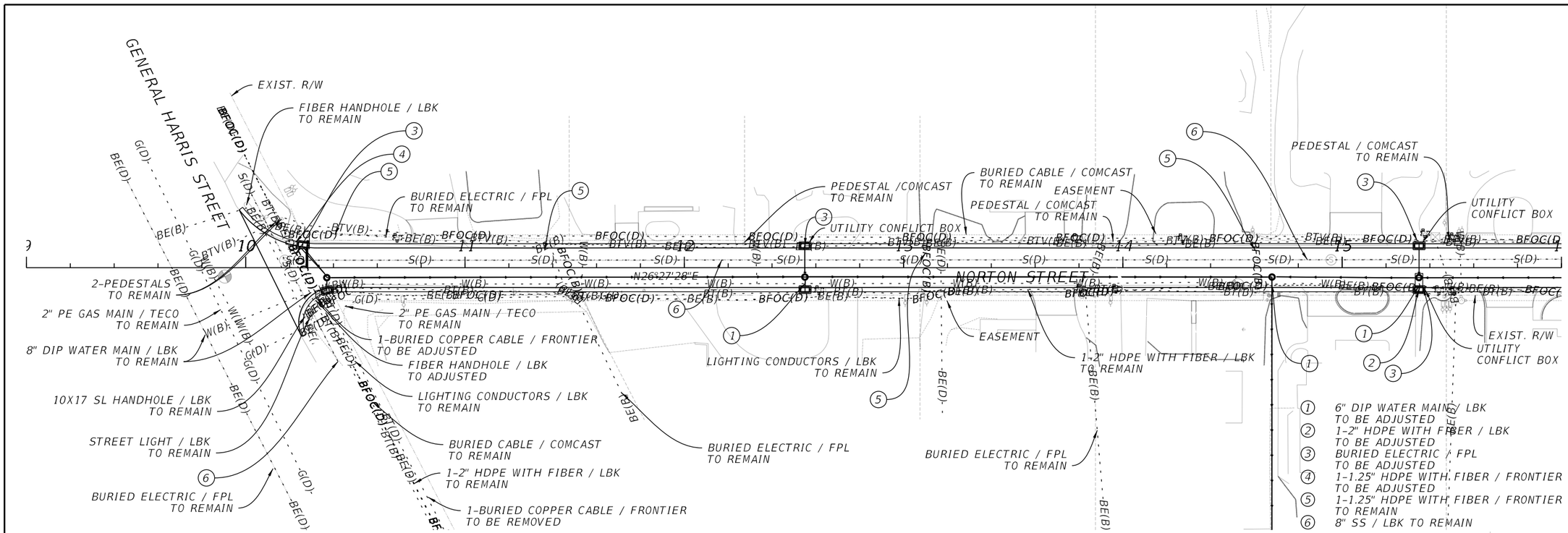
NORTON STREET

DRIVEWAY HALF SECTIONS

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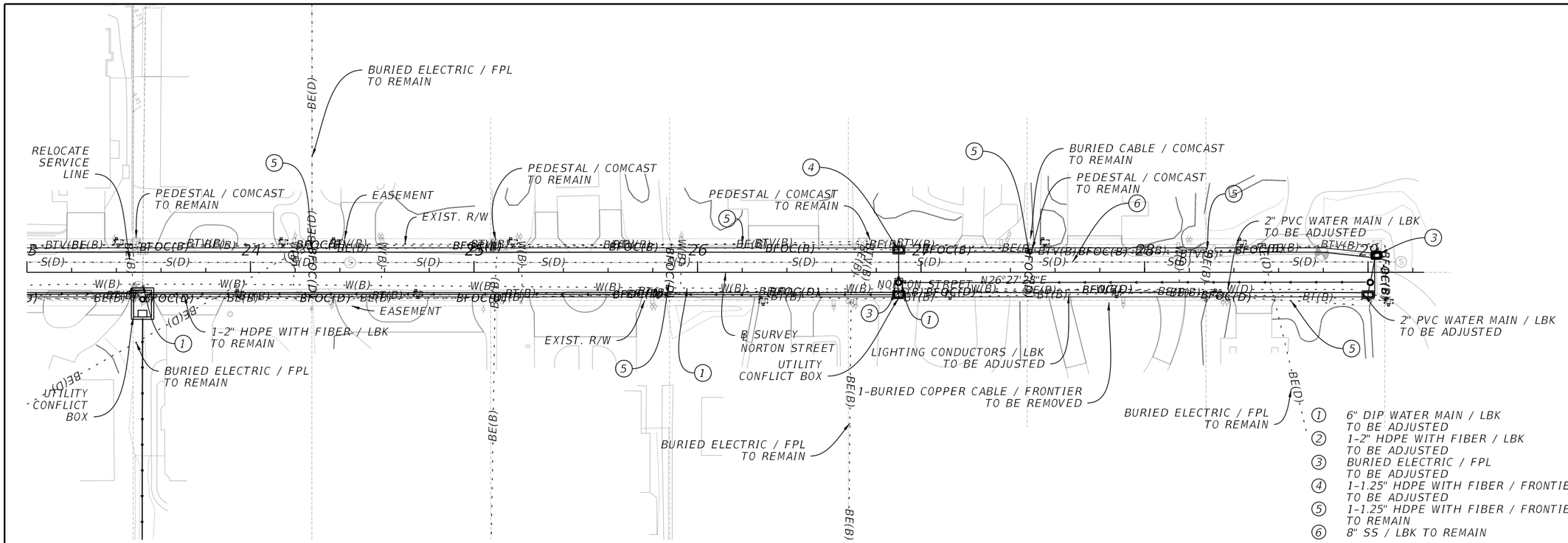
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MOLLY CHARLENE WILLIAMS, P.E.
P.E. LICENSE NUMBER: 54281
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SARASOTA, FL 34236
(941) 379-7600

TOWN OF LONGBOAT KEY

NORTON STREET

UTILITY ADJUSTMENT SHEET (1)

SHEET NO.



REVISIONS			
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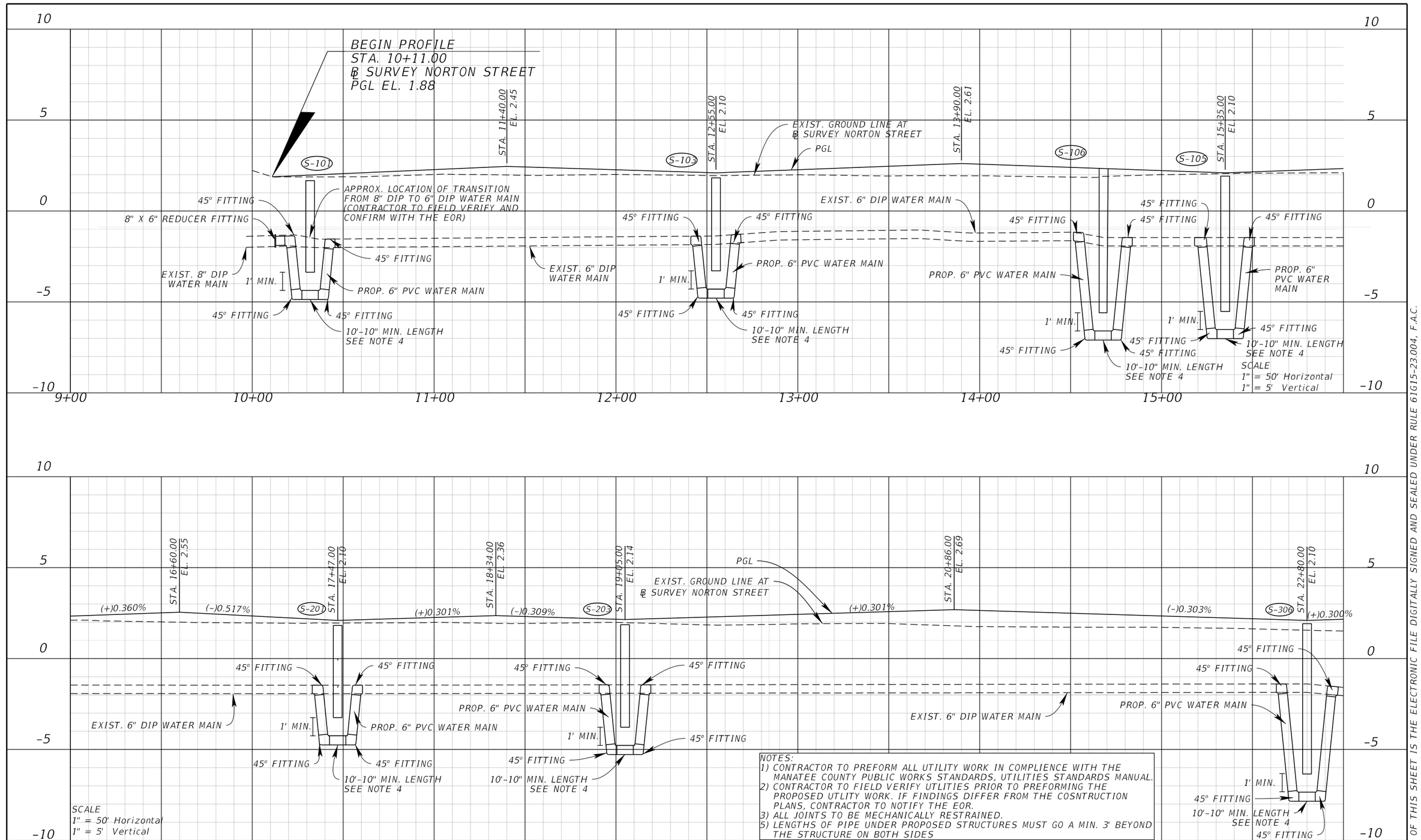
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NORTON STREET

UTILITY ADJUSTMENT SHEET (2)

SHEET NO.

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SARASOTA, FL 34236
(941) 379-7600

TOWN OF LONGBOAT KEY

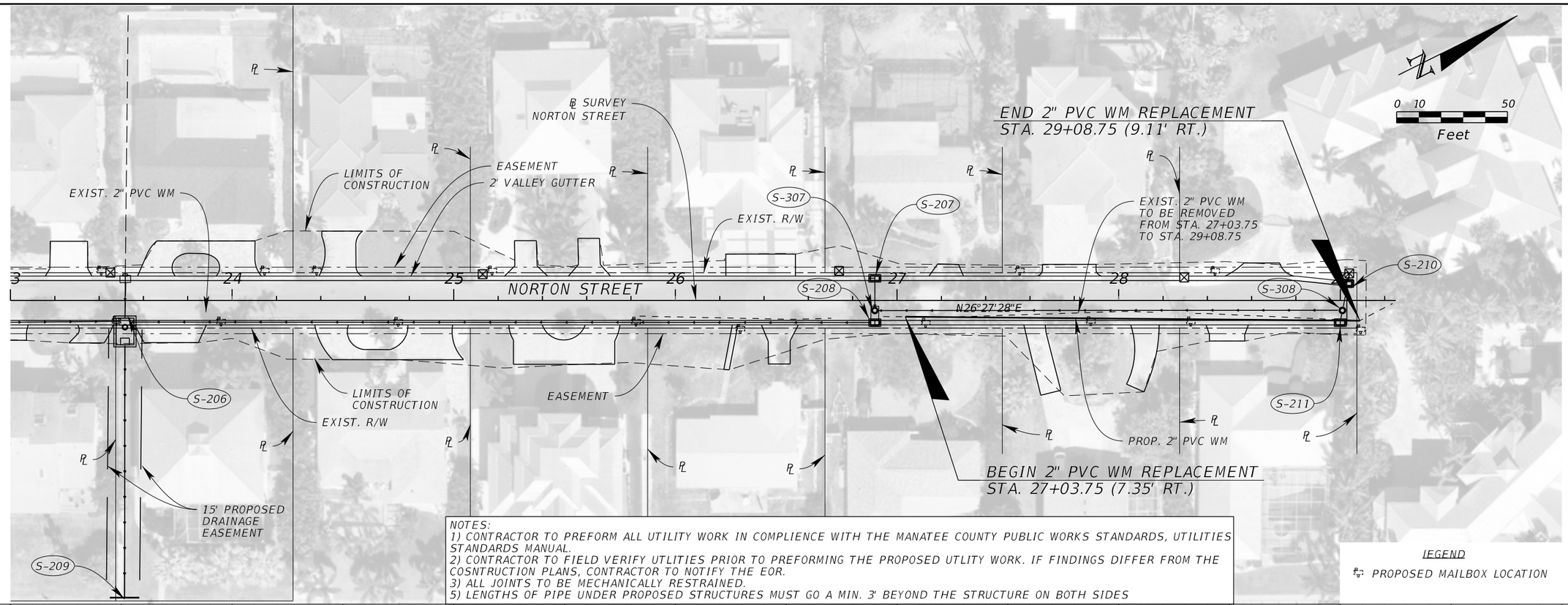
NORTON STREET

WATER MAIN PROFILE (1)

SHEET NO.

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K:\SAR_Worksets\FDOT\148800021_Norton\Roadway\UTIL_RELOPR.dgn : NORTON SURVEY BASELINE - PLAN 1 [SHEET]
Brandon.Nichols 9/12/2025 9:24:42 AM



REVISIONS			
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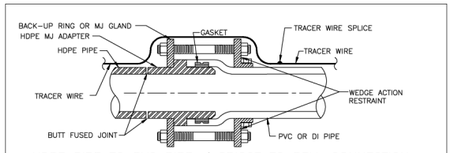
NORTON STREET

WATER MAIN PROFILE (2)

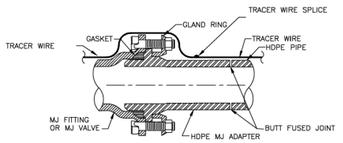
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Brandon.Nichols 9/11/2025 6:56:11 PM

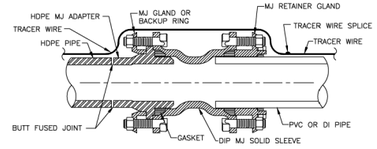


HDPE PIPE TO PVC PIPE / SPIGOT TO BELL CONNECTION



NOTE: SCHEMATIC SHOWN FOR STANDARD MJ FITTINGS AND GATE VALVES.

HDPE PIPE TO MJ FITTING TRANSITION



HDPE PIPE TO PVC PIPE SPIGOT TO SPIGOT CONNECTION

NOTES:

1. ONE TRACER WIRE SHALL BE SECURED TO THE PIPE FOR ALL TYPES OF PIPELINE INSTALLATIONS.
2. CONTRACTOR SHALL NOT USE MECHANICAL MEANS TO ALIGN PIPE AND FITTINGS FOR ATTACHMENT. THE PIPE SHALL NOT BE "SPRING" LOADED.

MANATEE COUNTY PUBLIC WORKS DEPARTMENT			
REV.BY	DATE	SEPT 12, 2023 DATE OF APPROVAL	HDPE TO PVC OR DI PIPE ADAPTER
			UG-6

THRUST BLOCK DIMENSIONS B ft. x d inches

PIPE SIZE (IN.)	90°BEND		45°BEND		22.5°BEND		11.25°BEND		DEAD END & TEE		45° WYE	
	B	d	B	d	B	d	B	d	B	d	B	d
4	1.5	3 ½	1.1	3 ½	0.8	3 ½	0.6	3 ½	1.3	3 ½	1.1	3 ½
6	2.2	5 ¼	1.6	3 ¾	1.2	3 ½	0.8	3 ½	1.9	4 ½	1.6	3 ¾
8	2.9	7	2.1	5	1.5	3 ½	1.1	3 ½	2.4	5 ¾	2.0	4 ¾
10	3.5	8 ½	2.6	6 ¼	1.9	4 ½	1.3	3 ½	3.0	7 ¼	2.5	6
12	4.2	10	3.1	7 ½	2.2	5 ¼	1.6	3 ¾	3.5	8 ¼	3.0	7 ¼
14	4.9	11 ¾	3.6	8 ¾	2.6	6 ¼	1.8	4 ¼	4.1	9 ¾	3.4	8 ¼
16	5.5	13 ¼	4.1	9 ¾	2.9	7	2.1	5	4.7	11 ¼	3.9	9 ¼
18	6.2	15	4.6	11	3.3	8	2.3	5 ½	5.2	12 ½	4.4	10 ½
20	6.9	16 ½	5.0	12	3.6	8 ¾	2.6	6 ¼	5.8	14	4.9	11 ¾
24	8.2	19 ¾	6.0	14 ½	4.3	10 ¼	3.1	7 ½	6.9	16 ½	5.8	14
30	10.1	24 ¼	7.5	18	5.3	12 ¾	3.8	9	8.5	20 ½	7.2	17 ¼
36	12.1	29	8.9	21 ¼	6.4	15 ¼	4.5	10 ¾	10.2	24 ½	8.6	20 ¾



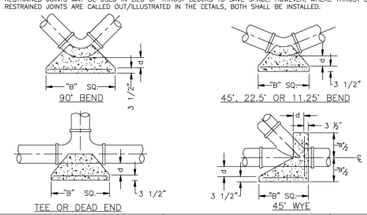
REINFORCEMENT MAT SCHEDULE

FOR DIM. "B" BETWEEN 5.75' & 12.5' USE #4 @ 8" EACH WAY

FOR DIM. "B" LESS THAN 5.75' USE #3 @ 8" EACH WAY

NOTES:

1. ALL THRUST BLOCKS SHALL BE CAST IN PLACE. FITTINGS ADJACENT TO THRUST BLOCKS SHALL BE WRAPPED IN POLYETHYLENE.
2. THIS TABLE IS BASED ON WATER PRESSURE=180 PSI WITH 4N ALLOWABLE SOIL BEARING PRESSURE=2000 PSF, CONCRETE STRENGTH f_c =3000 PSI, REINFORCEMENT f_y =60.0 KSI. THRUST BLOCK SHALL BE CAST AGAINST FIRM UNDISTURBED SOIL.
3. FOR LARGER "B" DIMENSIONS IT IS NECESSARY TO CHECK THAT PIPE IS SUFFICIENTLY DEEP TO ALLOW 15" MIN. SOIL COVER OVER TOP EDGE OF THRUST BLOCK.
4. RESTRAINED JOINTS MAY BE USED IN LIEU OF THRUST BLOCKS TO SAVE SPACE. HOWEVER, WHERE THRUST BLOCKS AND RESTRAINED JOINTS ARE CALLED OUT/ILLUSTRATED IN THE DETAILS, BOTH SHALL BE INSTALLED.



MANATEE COUNTY PUBLIC WORKS DEPARTMENT			
REV.BY	DATE	SEPT 12, 2023 DATE OF APPROVAL	CONCRETE THRUST BLOCKS
			UG-7

REQUIRED LENGTH OF RESTRAINED JOINT PIPE FOR C900-16 PVC PIPE (DR-18)

MAIN PIPE SIZE	HORIZ. BENDS			TEES						REDUCERS				PLUGS & VALVES
	90°	45°	22.5°	SIZE / LENGTH						SIZE / LENGTH				
24	90	38	18	X24 169	X20 132	X16 90	X12 38	X10 6	X8 1	X20 64	X16 117	X12 158		214
20	78	32	16	X20 141	X16 101	X12 53	X10 24	X8 1		X16 65	X12 115	X10 149		184
16	66	27	13	X16 111	X12 67	X10 41	X8 12			X12 64	X10 107	X8 111		151
12	52	22	10	X12 80	X10 56	X8 31	X6 7			X10 58	X8 62	X6 86		118
10	44	18	9	X10 63	X8 40	X6 7				X8 53	X6 61	X4 81		100
8	37	15	7	X8 49	X6 18	X4 1				X8 55	X4 60			83
6	29	12	6	X6 29	X4 1					X4 33				63
4	21	8	4	X4 12										45

NOTES:

1. RESTRAIN 11.25° BENDS 50% OF LENGTH FOR 22.5° BENDS.
2. ALL VALVES AND FITTINGS SHALL BE RESTRAINED TO THE CONNECTING SECTIONS OF PIPE.
3. ALL ISOLATION VALVES MUST BE PROPERLY ANCHORED OR RESTRAINED TO RESIST A 180 PSI TEST PRESSURE IN EITHER DIRECTION.
4. PIPE SIZES ARE GIVEN IN INCHES.
5. RESTRAINED PIPE LENGTHS ARE GIVEN IN FEET.
6. LENGTHS SHOWN ARE FOR A TEST PRESSURE OF 180 PSI.
7. THE RESTRAINED LENGTHS SHOWN IN THESE TABLES ARE BASED ON SOIL CLASSIFICATION SP WITH AWWA TYPE 3 TRENCH CONDITIONS, 180 PSI TEST PRESSURE, 3 FEET OF COVER AND 1.5 FACTOR OF SAFETY. ACTUAL BURY CONDITIONS MUST BE DETERMINED BY THE ENGINEER OF RECORD AND THE RESTRAINED LENGTHS MODIFIED ACCORDINGLY.
8. RESTRAINED LENGTHS TO BE APPLIED TO PIPELINES PER DETAIL UG-10 RESTRAINED LENGTHS FOR PIPE.
9. ALL RESTRAINED JOINT HARDWARE SHALL CONFORM TO 1.11.17 OF THE PUBLIC WORKS UTILITIES STANDARDS MANUAL.
10. ALL THREE "LEGS" OF TEES SHALL BE RESTRAINED PER THE STATED LENGTH IN THE TABLE.

MANATEE COUNTY PUBLIC WORKS DEPARTMENT			
REV.BY	DATE	SEPT 12, 2023 DATE OF APPROVAL	RESTRAINED LENGTHS FOR PVC PIPE
			UG-8

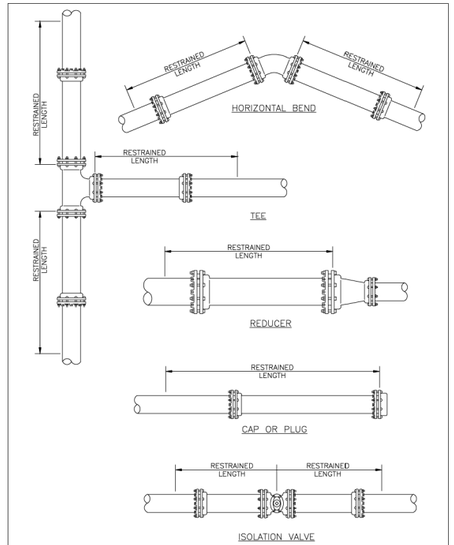
REQUIRED LENGTH OF RESTRAINED JOINT PIPE FOR DIP (POLY-WRAPPED)

MAIN PIPE SIZE	HORIZ. BENDS			TEES						REDUCERS				PLUGS & VALVES
	90°	45°	22.5°	SIZE / LENGTH						SIZE / LENGTH				
36	142	59	28	X36 353	X30 318	X24 232	X20 165	X16 84	X12 1	X30 137	X24 243	X20 309	X16 356	453
30	124	51	25	X30 313	X24 252	X20 189	X16 115	X12 33	X10 1	X24 213	X20 276	X16		391
24	106	44	21	X24 270	X20 211	X16 143	X12 81	X10 10	X8 1	X20 178	X16 241	X12		327
20	92	38	18	X20 225	X16 161	X12 85	X10 39	X8 1		X16 176	X12 227	X10		280
16	77	32	15	X16 177	X12 107	X10 65	X8 19	X6 1		X12 163	X10 169	X8		231
12	61	25	12	X12 127	X10 89	X8 50	X6 11			X10 96	X8 131	X6		181
10	52	22	10	X10 101	X8 64	X6 11				X8 94	X6 125	X4		153
8	44	18	9	X8 78	X6 30	X4 1				X6 92	X4			128
6	34	14	7	X6 46	X4 1					X4 50				98
4	24	10	5	X4 19										69

NOTE:

1. SEE UG-8, RESTRAINED LENGTHS FOR PVC PIPE DETAIL FOR NOTES 1 THROUGH 10 THAT ARE ALSO APPLICABLE TO RESTRAINED LENGTHS FOR DIP.

MANATEE COUNTY PUBLIC WORKS DEPARTMENT			
REV.BY	DATE	SEPT 12, 2023 DATE OF APPROVAL	RESTRAINED LENGTHS FOR DIP
			UG-9



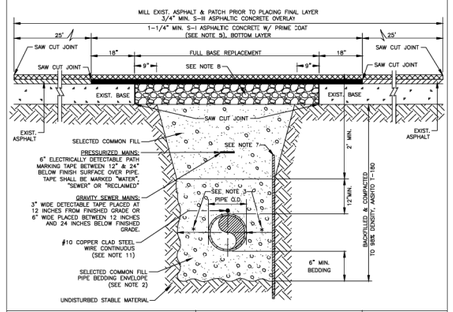
NOTE:

1. SEE DETAIL UG-8 RESTRAINED LENGTHS FOR PVC PIPE FOR NOTES 1 THROUGH 10 THAT ARE ALSO APPLICABLE TO RESTRAINED LENGTHS FOR PIPE.

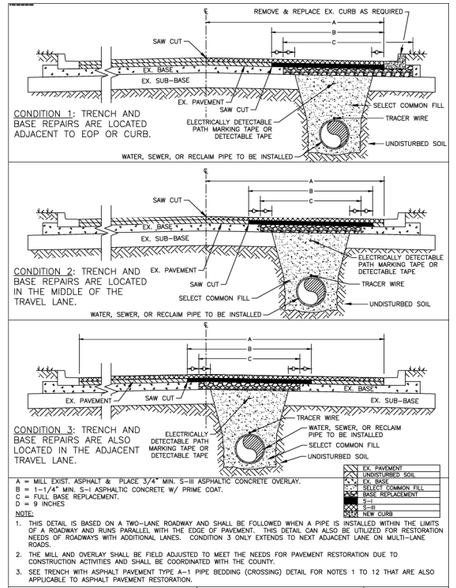
MANATEE COUNTY PUBLIC WORKS DEPARTMENT			
REV.BY	DATE	SEPT 12, 2023 DATE OF APPROVAL	RESTRAINED LENGTHS FOR PIPE
			UG-10

NOTES:

1. BITUMINOUS PAVEMENT SHALL BE REMOVED IN CLEAN STRAIGHT LINES BY SAW CUTTING. WHERE BITUMINOUS PAVEMENT ADJOINS A TRENCH, THE EDGES ADJACENT TO THE TRENCH SHALL BE TRIMMED TO A NEAT STRAIGHT LINES BEFORE RESURFACING TO ENSURE THAT ALL AREAS TO BE RESURFACED ARE ACCESSIBLE TO ROLLERS OR TAMPERS USED TO COMPACT THE SUB-GRADE OR PAVING MATERIALS.
2. USE OF TYPE A-2 AND A-3 PIPE BEDDING TO BE DETERMINED IN THE FIELD BY THE ENGINEER.
3. PROVIDE ADEQUATE CLEARANCE TO PLACE AND COMPACT STAGE 1 BEDDING MATERIAL IN TRENCH AREA BELOW PIPE SPRINGLINE. PIPE EMBEDMENT MUST BE COMPACTED OUT TO THE TRENCH WALL OR 2.5 TIMES THE PIPE OD, WHICHEVER IS LESS.
4. PIPE INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS.
5. ASPHALTIC CONCRETE STRUCTURE COURSE WITH PRIME COAT SHALL BE THE SAME DEPTH AND TYPE AS EXISTING OR A MINIMUM OF 1-1/4 INCH S-I, WHICHEVER IS GREATER.
6. MILL 25' BACK FROM TRENCH CROSSING SAW CUTS. ADJUST MILLING PER NDIVIDUAL SITE TO NOT IMPACT BASE. BUTT JOINT TO EXIST ASPHALT. FINAL OVERLAY TO MATCH EXISTING WITH NO DISCERNABLE "BUMP" AT JOINT. MILLING LIMITS THAT IMPACT INTERSECTION SHALL BE ADDRESSED ON A CASE BY CASE BASIS AND APPROVED BY MANATEE COUNTY.
7. SHEETING ORDERED LEFT IN PLACE TO BE CUT OFF 24" BELOW FINISHED GRADE OR 12" BELOW SUBGRADE.
8. NEW BASE SHALL MATCH EXISTING; OR BE CRUSHED CONCRETE, 8" MIN. THICKNESS, LBR ≥150, WHICHEVER IS GREATER.
9. TEMPORARY PATCHES WILL BE INSTALLED TO PROVIDE A SMOOTH ALL WEATHER SURFACE AT ALL TIMES. PERMANENT REPLACEMENT TO BE MADE AS SOON AS POSSIBLE.
10. RESTORE SIGNAGE & MARKING WITH THERMOPLASTIC PER FDOT S'ANDARDS, LATEST EDITION.
11. TRACER WIRE NOT REQUIRED FOR GRAVITY SEWERS.
12. NOTES 5. THRU 10. ARE MINIMUM REQUIREMENTS FOR A TRENCH IN A LOCAL ROAD. REFER TO LATEST EDITION OF MANATEE COUNTY HIGHWAY AND TRAFFIC STANDARDS FOR ADDITIONAL REQUIREMENTS.



MANATEE COUNTY PUBLIC WORKS DEPARTMENT			
REV.BY	DATE	SEPT 12, 2023 DATE OF APPROVAL	TRENCH WITH ASPHALT PAVEMENT SURFACE TYPE A-1 PIPE BEDDING (CROSSING)
			UG-12

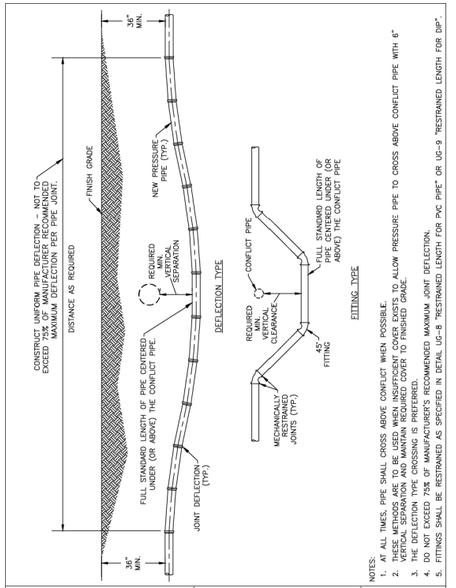


A = MILL EXIST. ASPHALT & PLACE 3/4" MIN. S-III ASPHALTIC CONCRETE OVERLAY.
B = 1-1/4" MIN. S-I ASPHALTIC CONCRETE W/ PRIME COAT.
C = FULL BASE REPLACEMENT.
D = 9 INCHES

NOTE:

1. THIS DETAIL IS BASED ON A TWO-LANE ROADWAY AND SHALL BE FOLLOWED WHEN A PIPE IS INSTALLED WITHIN THE LIMITS OF A ROADWAY AND RUNS PARALLEL WITH THE EDGE OF PAVEMENT. THIS DETAIL CAN ALSO BE UTILIZED FOR RESTORATION NEEDS OF ROADWAYS WITH ADDITIONAL LANES. CONDITION 3 ONLY EXTENDS TO NEXT ADJACENT LANE ON MULTI-LANE ROADS.
2. THE MILL AND OVERLAY SHALL BE FIELD ADJUSTED TO MEET THE NEEDS FOR PAVEMENT RESTORATION DUE TO CONSTRUCTION ACTIVITIES AND SHALL BE COORDINATED WITH THE COUNTY.
3. SEE TRENCH WITH ASPHALT PAVEMENT TYPE A-1 PIPE BEDDING (CROSSING) DETAIL FOR NOTES 1 TO 12 THAT ARE ALSO APPLICABLE TO ASPHALT PAVEMENT RESTORATION.

MANATEE COUNTY PUBLIC WORKS DEPARTMENT			
REV.BY	DATE	SEPT 12, 2023 DATE OF APPROVAL	TRENCH WITH ASPHALT PAVEMENT SURFACE TYPE A-1 PIPE BEDDING (LONGITUDINAL)
			UG-13



NOTES:

1. AT ALL TIMES, PIPE SHALL CROSS ABOVE CONFLICT WHEN POSSIBLE.
2. THESE METHODS ARE TO BE USED WHEN INSUFFICIENT COVER EXISTS TO ALLOW PRESSURE PIPE TO CROSS ABOVE CONFLICT PIPE WITH 6" VERTICAL SEPARATION AND MAINTAIN REQUIRED COVER TO FINISHED GRADE.
3. THE DEFLECTION TYPE CROSSING IS PREFERRED.
4. DO NOT EXCEED 75% OF MANUFACTURER'S RECOMMENDED MAXIMUM JOINT DEFLECTION.
5. FITTINGS SHALL BE RESTRAINED AS SPECIFIED IN DETAIL UG-8 "RESTRAINED LENGTH FOR PVC PIPE" OR UG-9 "RESTRAINED LENGTH FOR DIP".

MANATEE COUNTY PUBLIC WORKS DEPARTMENT			
REV.BY	DATE	SEPT 12, 2023 DATE OF APPROVAL	PRESSURE PIPE DEFLECTION AT UTILITY CROSSING
			UG-19

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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TOWN OF LONGBOAT KEY

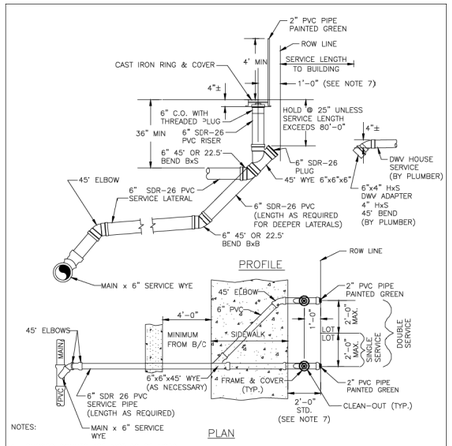
NORTON STREET

UTILITY DETAIL SHEET (1)

SHEET NO.

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

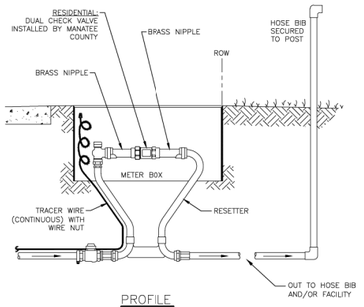
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NOTES:

1. RUBBER DONUTS ARE NOT TO BE USED.
2. "S" SHALL BE IMPRESSED INTO THE NEWLY-POURED CONCRETE CURB (OR ROUTED INTO EXISTING CONCRETE CURB USING AN APPROVED TEMPLATE) AND INSTALL AN ALUMINUM GREEN DISC WITH "S" AND THE FOOTAGE FROM THE DISC TO THE CLEAN-OUT USING A 1/8" X 1" GALVANIZED STEEL SCREW IN THE EDGE OF PAVEMENT. LETTERS SHALL COMPLY WITH TEMPLATE DETAIL UG-21.
3. SANITARY SEWER CLEAN-OUTS SHALL NOT BE LOCATED IN DRAINAGE SWALES, EASEMENTS, SIDEWALKS OR DRIVEWAYS.
4. NO SERVICE CONNECTIONS TO BE MADE TO TH E CLEAN-OUT RISER. ALL DOMESTIC CONNECTIONS SHALL BE MADE TO THE STUB-OUT PROVIDED.
5. SEWER SERVICE SHALL BE 5' MIN. FROM WATER SERVICE OR FIRE HYDRANT.
6. CLEAN-OUT ADAPTER TO BE SOLVENT-WELDED TO RISER TOP. CLEAN-OUT THREADS SHALL BE WRAPPED WITH TEFLON PLUMBERS TAPE TO SEAL PLUG WATERTIGHT.
7. WHEN THE DISTANCE BETWEEN THE EDGE OF THE SIDEWALK & THE ROW LINE IS ONE FOOT (CUL-DE-SAC W/MEDIAN) THE DISTANCE BETWEEN THE CENTER OF THE CLEAN-OUT RISER & THE ROW LINE SHALL BE 6".

MANATEE COUNTY PUBLIC WORKS DEPARTMENT			
REV.BY	DATE	SINGLE AND DOUBLE SERVICE CONNECTION	US-16
		SEPT 12, 2023 DATE OF APPROVAL	



NOTES:

SEC. 2-31-253 – GENERAL REQUIREMENTS

(a) DIRECT CONNECTION.

(1) THE BOARD MAY ADOPT, BY REGULATION, FEES AND CHARGES FOR DIRECT CONNECTION, INCLUDING, BUT NOT LIMITED TO, AN INITIAL PERIOD AND ANY ADDITIONAL PERIODS.

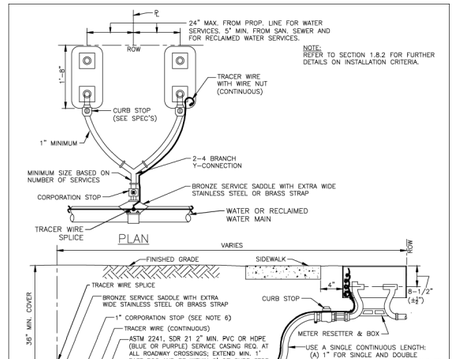
(2) URING CONSTRUCTION OF NEW SINGLE-FAMILY RESIDENCES, CONTRACTORS SHALL BE REQUIRED TO USE POTABLE WATER THROUGH UNMETERED DIRECT CONNECTION TO POTABLE WATER DISTRIBUTION LINES. EXCEPTIONS TO THE REQUIREMENT FOR DIRECT CONNECTION MAY BE GRANTED BY THE COUNTY ADMINISTRATOR FOR GOOD CAUSE SHOWN.

(3) AN APPROVED BACKFLOW PREVENTION ASSEMBLY SHALL BE INSTALLED PRIOR TO ANY DIRECT CONNECTION.

(4) A DIRECT CONNECTION SHALL CONTINUE UNTIL INSTALLATION OF A PERMANENT METER AND ISSUANCE OF A CERTIFICATE OF OCCUPANCY FOR THE RESIDENCE. THE PERMANENT METER SHALL NOT BE INSTALLED UNTIL THE RESIDENCE IS READY FOR THE METER AND ALL REQUIRED FEES AND CHARGES ARE PAID. IF A PERMANENT METER IS NOT INSTALLED WITHIN ONE YEAR FROM THE COMMENCEMENT DATE OF A DIRECT CONNECTION, INSPECTION OF THE DIRECT CONNECTION BY THE COUNTY IS REQUIRED PRIOR TO EXTENSION FOR ANY ADDITIONAL PERIOD. AT THE DISCRETION OF THE COUNTY ADMINISTRATOR, A DIRECT CONNECTION MAY BE EXTENDED FOR ADDITIONAL PERIODS UNTIL THE RESIDENCE MEETS THE REQUIREMENTS OF THE PARAGRAPH.

(5) CONTRACTOR SHALL CONTACT UTILITY CUSTOMER SERVICE, 4410 66TH STREET WEST, BRADENTON, FL 34210, 941.792.8811 TEMPORARY RESIDENTIAL DIRECT CONNECTION INSTALLATION.

MANATEE COUNTY PUBLIC WORKS DEPARTMENT			
REV.BY	DATE	TEMPORARY RESIDENTIAL DIRECT CONNECTION	UW-21
		SEPT 12, 2023 DATE OF APPROVAL	



NOTES:

1. ALL SERVICE TAPS TO BE LOCATED IN THE FIELD. TAPS SHALL BE NO CLOSER THAN 2'-0" STAGGERED INTERVALS OR WITHIN 2'-0" FROM BELL OR SPIGOT ENDS.
2. METER BOXES & RESETTERS ARE TO BE INSTALLED BY THE INFRASTRUCTURE CONTRACTOR AND SHALL NOT BE SET IN DRAINAGE SWALES, SIDEWALKS OR DRIVEWAYS. WITH PRIOR APPROVAL BY COUNTY, METER BOXES WITH LOCKABLE LIDS MAY BE LOCATED IN SIDEWALKS.
3. "W" OR "R" SHALL BE IMPRESSED INTO THE NEWLY POURED CONCRETE CURB (OR ROUTED INTO EXISTING CONCRETE CURB USING AN APPROVED TEMPLATE) AND INSTALL AN ALUMINUM BLUE DISC WITH "W" OR ALUMINUM PURPLE DISC WITH "R" AND THE FOOTAGE FROM THE DISC TO THE METER USING A 1/8"x 1" GALVANIZED STEEL SCREW IN THE EDGE OF PAVEMENT. LETTER SHALL COMPLY WITH TEMPLATE DETAIL UG-21.
4. INSULATED CODED TRACER WIRE SHALL BE INSTALLED WITH WATER AND RECLAIMED MAIN, AND ALL SERVICES. SERVICE WIRE SHALL BE CONNECTED TO THE TRACER WIRE ALONG THE MAIN, ON DOUBLE SERVICES, WHEN SECOND METER IS OVER 8 FT APART, TWO TRACER WIRES SHALL BE INSTALLED; ONE FOR EACH METER.
5. WATER AND RECLAIMED WATER SERVICE LINES TO BE 5' MINIMUM FROM SEWER SERVICE PIPES.
6. FOR 2" SERVICES, REPLACE CORPORATION STOP WITH A 2" RESILIENT WEDGE FIP GATE VALVE W/BOX, LID & TAG.
7. WHEN THE DISTANCE BETWEEN THE EDGE OF THE SIDEWALK AND THE ROW IS ONE FOOT (CUL-DE-SAC W/MEDIAN) A 10-FOOT-WIDE PUBLIC UTILITY EASEMENT SHALL BE LOCATED IN THE FRONT OF THE LOTS, ADJACENT TO THE ROW.
8. TEMPORARY RESIDENTIAL USE CAN BE PROVIDED BY CONTACTING THE UTILITY CUSTOMER SERVICE. SEE DETAIL UW-21.
9. SERVICE TUBING SHALL NOT BE CRIMPED OR KINKED TO RE-ADJUST CURB STOP LOCATION.

MANATEE COUNTY PUBLIC WORKS DEPARTMENT			
REV.BY	DATE	TYPICAL SERVICE CONNECTION	UW-23
		SEPT 12, 2023 DATE OF APPROVAL	

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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MOLLY CHARLENE WILLIAMS, P.E.
P.E. LICENSE NUMBER: 54281
1800 SECOND STREET, SUITE 900
SARASOTA, FL 34236
(941) 379-7600

TOWN OF LONGBOAT KEY

NORTON STREET

UTILITY DETAIL SHEET (2)

SHEET NO.

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

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SWPPP / EROSION CONTROL PLAN
PROJECT NAME: NORTON STREET

1.0 Site Description

1.a Nature of Construction Activity:

The project is the renovation of Norton Street in Manatee County. This involves elevating the roadway surface, adding valley gutter, and adding storm drain systems, The project extends from General Harris Street to the end of Norton Street.

The project length is approximately 2000 feet.

1.b Sequence of Major Soil Disturbing Activities:

In the Section 104 Erosion Control Plan, the Contractor shall provide a detailed sequence of construction for all construction activities. The Contractor shall follow the sequence of major activities described below, unless the Contractor proposes a different sequence that is equal or better at controlling erosion and trapping sediment and is approved by the Engineer.

For each construction phase, install perimeter controls after clearing and grubbing necessary for installation of controls but before beginning other work for the construction phase. Remove perimeter controls only after all upstream areas are stabilized.

1. Clearing and grubbing, earthwork, utilitties, and storm drain construction for the roadway improvements.
2. Storm drain construction. Construct the storm drain pipe in the upstream direction.
3. Earthwork associated with roadway, and construction of curb, subgrade, base, pavement, and sidewalk.

1.c Area Estimates:

Total project area: 6.22 Acres
Total area to be disturbed: 6.22 Acres

1.d Runoff Data:

Runoff Coefficients
Before: Ranges between 0.2 and 0.83
During: Ranges between 0.2 and 0.83
After: 0.83

Soils Data: The results of the soil borings along the roadway are shown in the Subsurface Soil Exploration and Hydrogeologic Evaluation report.

Outfall Information:

There are 3 outfalls.

#1 Description: Proposed Outfall 1

Location: Long: 27.427631 Lat: -82.672973
Est. Drainage Area Size: 2.09 Acres
Receiving Water Name: Open Canal Connected to Sarasota Bay

#2 Description: Proposed Outfall 2

Location: Long: 27.430106 Lat: -82.672479
Est. Drainage Area Size: 4.09 Acres
Receiving Water Name: Open Canal Connected to Sarasota Bay

#3 Description: Existing Outfall 1

Location: Long: 27.430127 Lat: -82.672513
Est. Drainage Area Size: 4.09 Acres
Receiving Water Name: Open Canal Connected to Sarasota Bay

1.e Site Map:

The construction plans are being used as the site maps. The location of the required information is described below. The sheet numbers for the plan sheets referenced are identified on the Key Sheet of these construction plans.

* Approximate Slopes: The slopes of the site can be seen in the Cross Section Sheets, Plan Sheets and Profile Sheets.
* Areas of Soil Disturbance: The areas to be disturbed are indicated on the Plan Sheets, the Cross Section Sheets, and the Detail Sheets. Any area of new construction will be disturbed.
* Areas Not To Be Disturbed: The areas not to be disturbed are the existing banks beyond the limits of construction.
* Locations of Temporary Controls: These are shown on the Erosion Control Plans.
* Areas To Be Stabilized: Temporary stabilization practices are shown in the same location as the temporary controls mentioned above. Permanent stabilization is shown on the Typical Section Sheets and the Plan Sheets.
* Discharge Points To Surface Waters: The discharge points are shown on the plan sheets.

1.f Receiving Waters:

See item 1.d for the outfall locations and receiving water names.

1.g Sequence of Construction:

The sequence of constuction shown above is a general overview and is intended to convey the general concepts of the eroision control design and should not be relied upon for constrcution purposes. The contractor is soley responsible for detailed phasing and construction sequencing necessary to construct the proposed improvements included in these plans. The contractor shall notify the engineer in writting immediately prior to and/or during construction if any additional information on the construction sequence is necessary. The contractor is soley responsible for complying with the requirments of the authority having jurisdiction and all other applicable laws.

2.0 CONTROLS:

2.a Erosion And Sediment Controls:

In the Section 104 Erosion Control Plan, the Contractor shall describe the proposed stablization and structural practices based on the Contractor's proposed Traffic Control Plan. The following recommended guidelines are based on the Erosion Control Plans outlined in the construction plans. The Contractor may choose to accept the following guidelines or modify them in the Section 104 Erosion Control Plan, subject to approval of the Engineer. As work progresses, the Contractor shall modify the plan to adapt to seasonal variation, changes in construction activities, and the need for better practices.

* Sediment Barrier.
* Staked and Floating Turbidity Barrier.
* Sandbags to control erosion and trap silt.
* Inlet protection in accordance with Design Standard 102.
* No Hay Bales shall be used for inlet protection or in roads. Only synthetic hay bales or other types of inlet protection shall be used.

Permanent:

* All sod shall be placed within seven working days of final grading in areas that are to be sodded.

2.b Stormwater Management:

Contractor will be responsible for taking all required measures to ensure that all stormwater runoff from Contractor's work site fully complies with volume and water quality criteria as established in the site-wide SWPPP and all stormwater permits. Contractor will be required to implement all necessary measures to ensure that stormwater runoff from Contractor's work site does not adversely impact other Contractors or property. The Contractor must clean all new and existing storm structures and pipes of debris and sediments when construction is completed. In addition, Contractor must clean any off-site structures and pipes of sediment and debris, if these were the result of construction activity.

2.c Other Controls:

2.c.1 Waste Disposal:

In the Section 104 Erosion Control Plan, the Contractor shall describe the proposed methods to prevent the discharge of solid materials, including building materials, to waters of the United States. The proposed methods shall include at least the following, unless otherwise approved by the Engineer.

* Providing litter control and collection within the project during construction activities.
* Disposing of all fertilizer or other chemical containers according to EPA's standard practices as detailed by the manufacturer.
* Disposing of solid materials including building and construction materials off the project site but not in surface waters, or wetlands.

2.c.2 Off-Site Vehicle Tracking & Dust Control:

In the Section 104 Erosion Control Plan, the Contractor shall describe the proposed methods for minimizing offsite vehicle tracking of sediments and generating dust. The proposed methods shall include at least the following, unless otherwise approved by the Engineer.

* Covering loaded haul trucks with tarpaulins.
* Removing excess dirt from paved areas daily.
* Using roadway sweepers during dust generating activities such as excavation and milling operations.

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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TOWN OF LONGBOAT KEY

NORTON STREET

STORMWATER POLLUTION PREVENTION PLAN (1)

SHEET NO. 49

SWPPP / EROSION CONTROL PLAN
PROJECT NAME: NORTON STREET

2.c.3 State and Local Regulations For Waste Disposal, Sanitary Sewer, Or Septic Tank Regulations:

In the Section 104 Erosion Control Plan, the Contractor shall describe the proposed procedures to comply with applicable state and local regulations for waste disposal, and sanitary sewer or septic systems.

2.c.4 Fertilizers and Pesticides:

In the Section 104 Erosion Control Plan, the Contractor shall describe the procedures for applying fertilizers and pesticides. The proposed procedures shall comply with applicable subsections of either Section 570 or 571 of the Specifications.

2.c.5 Toxic/Hazardous Substances:

The Contractor shall provide to the Engineer and the Owner's Representative current copies of Safety Data Sheets (SDS's) for all toxic/hazardous substances and materials that Contractor plans to use on the job and provide a plan addressing the generation, application, migration and storage of these substances.

2.d Approved State and Local Plans and Permits:

* SWFWMD Environmental Resource Permit Exemption

3.0 MAINTENANCE:

In the Section 104 Erosion Control Plan, the Contractor shall provide a plan for maintaining all erosion and sediment controls throughout construction. The maintenance plan shall at a minimum, comply with the following:

* Silt Fence: Maintain per specification section 104. Anticipate replacing silt fence on 12 month intervals.

* Sediment Barriers: Remove sediment as per manufacturer's recommendations or when water ponds in unacceptable amounts or areas.

* Stabilized construction entrances shall be maintained to prevent clogging of rock bedding which may impede the usefullness of the structure.

4.0 INSPECTIONS:

The Contractor shall inspect the following items at least once every seven calendar days and within 24 hours of the end of a storm that is 0.50 inches or greater. To comply, the Contractor shall install and maintain rain gages and record daily rainfall. Where sites have been permanently stabilized, inspections shall be conducted at least once every month. The Contractor shall also inspect that controls installed in the field agree with the latest Stormwater Pollution Prevention Plan.

* Points of discharge to waters of the United States.

* Points of discharge to municipal separate storm drain systems.

* Disturbed areas of the site that have not been finally stabilized.

* Areas used for storage of materials that are exposed to precipitations.

* Structural controls.

* Stormwater management systems.

* Locations where vehicles enter or exit the site.

The Contractor shall initiate repairs within 24 hours of inspections that indicate items are not in good working order.

If inspections indicate that the installed stabilization and structural practices are not sufficient to minimize erosion, retain sediment, and prevent discharging pollutants, the Contractor shall provide additional measures, as approved by the Engineer.

5.0 NON-STORMWATER DISCHARGES:

In the Section 104 Erosion Control Plan, the Contractor shall identify all anticipated non-stormwater discharges (except flows from fire fighting activities). The Contractor shall describe the proposed measures to prevent pollution of these non-stormwater discharges. If the contractor encounters contaminated soil or groundwater, contact Dave Letterman, District Hazardous Materials Coordinator, at (888) 274-5343.

6.0 WATER QUALITY MONITORING:

Monitoring for turbidity as measured in nephelometric turbidity units (NTUs) shall be conducted for the duration of construction activities in accordance with the National Pollutant Discharge Elimination System (NPDES) Construction General Permit (CGP)

6.b The following information must be recorded for each sample taken in a monitoring report:

6.b.1 Site number;
6.b.2 Dates and time of day when sample was collected;
6.b.3 Total depth and sample depth
6.b.4 Antecedent weather conditions, including wind direction and velocity; and,
6.b.5 Tidal stage and/or flow direction

6.c In addition to the above mentioned, each monitoring report must include the following:

6.c.1 A statement of methodology including types of sampling equipment and analytical instrumentation, preservation, and handling;
6.c.2 Permit number;
6.c.3 A map indicating numbered locations of all sampling sites;
6.c.4 Copies of the quality assurance/quality control log; and,
6.c.5 A statement by the quality control officer as to the authenticity of the data.

6.d All turbidity monitoring reports shall be submitted to the SWFWMD Sarasota Regulation Department attention environmental manager within seven days of sample collection. All correspondence should include the permittee name and permit number. Failure to submit reports in a timely manner constitutes a violation of the permit and may be grounds for revocation.

6.e The following QA/QC protocol is required for each sample collected:

6.e.1 All turbidity analysis shall be performed on instruments that can perform nephelometric measurements;
6.e.2 The instrument must be calibrated each morning and each time the instrument is turned on, and recalibrated every four hours thereafter;
6.e.3 Calibrations must be performed against a blank sample, and at least one formalin or gel-type standard. The standard value should be in the same range as the sample readings;
6.e.4 All calibration procedures must be recorded in a permanent logbook, and copies must be submitted with the data; and,
6.e.5 Date and time of collection, date and time of analyses, warm-up time, and the name of the analyst must be included in the log.

6.f If 29 NTUs exceed background ambient water quality, all construction activities shall immediately cease. Any violations shall be immediately reported to SWFWMD (the district) at (941) 377-3722. The violation report shall include the description of the corrective actions being taken or proposed to be taken. If violations are noted after normal business hours, on holidays or on weekends, the report shall be made to the District as soon as normal business hours resume. A copy of all monitoring data sheets, which indicate violations, shall be forwarded immediately to the Sarasota Regulation Department of the District, attention environmental manager and include a copy to Manatee County Department of Public Works, infrastructure engineering division: at janice.haas@mymanatee.org or (941) 708-7450.

6.g When a turbidity violation is found, construction operations may not resume until a compliance inspection by district personnel has been conducted and a set of samples has been taken which demonstrates that water quality standards designated above are no longer exceeded. Interim samples taken following the violation shall be taken in the same manner as the routine monitoring and the same locations. If samples demonstrate the water quality standards specified above for turbidity are still being violated, sampling shall continue at two-hour intervals until the interim sample demonstrated the no violation is occurring.

6.h Failure to report violations or to follow correct procedures before resuming work will constitute grounds for revocation of the district permit and may also render the permittee subject to enforcement action.

7.0 TRACKING AND REPORTING:

7.a The contractor shall submit a weekly report to the county documenting the inspections and maintenance or repairs to the erosion and sediment control devices. The contractor shall maintain all required reports and complete all SWPPP inspection forms.

7.b Preparation of all the contractor's reports of inspection, maintenance and repairs required for the control and abatement of erosion and water pollution, shall be included in the individual costs of the erosion and sediment control devices of the project.

7.c The contractor shall use the FDOT's standard SWPPP construction inspection report form #650-040-03, for inspections

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

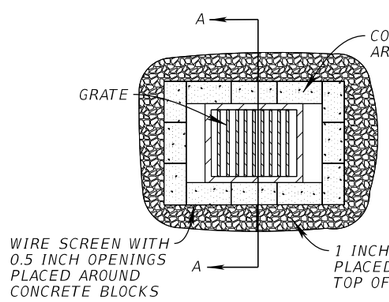
Kimley»Horn
MOLLY CHARLENE WILLIAMS, P.E.
P.E. LICENSE NUMBER: 54281
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SARASOTA, FL 34236
(941) 379-7600

TOWN OF LONGBOAT KEY

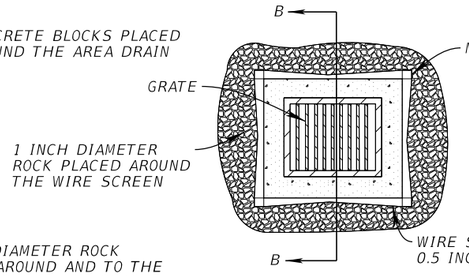
NORTON STREET

STORMWATER POLLUTION PREVENTION PLAN (2)

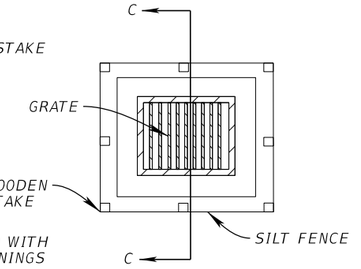
SHEET NO. 50



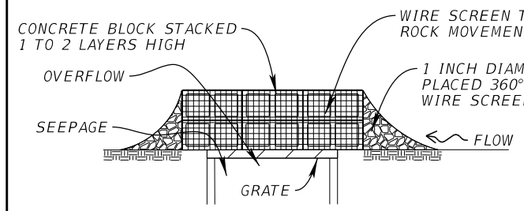
OPTION 1 - PLAN VIEW



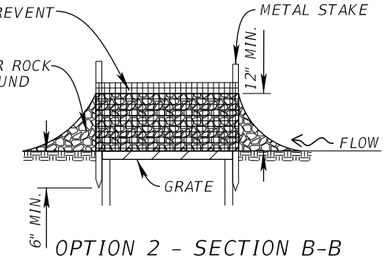
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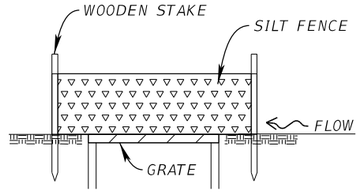
OPTION 3 - PLAN VIEW



OPTION 1 - SECTION A-A

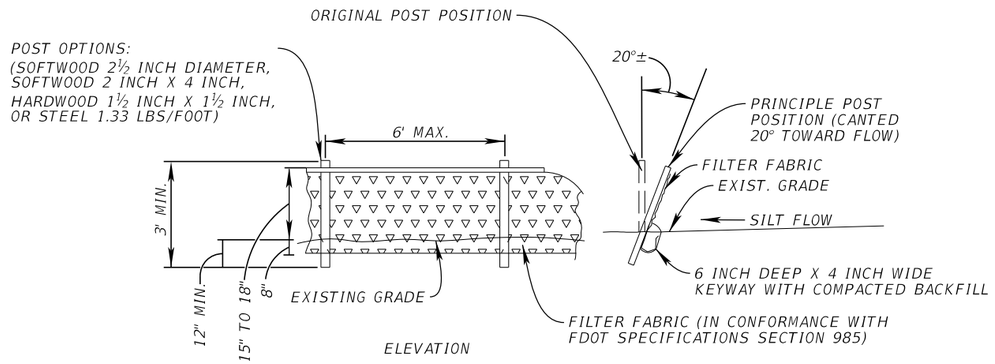


OPTION 2 - SECTION B-B

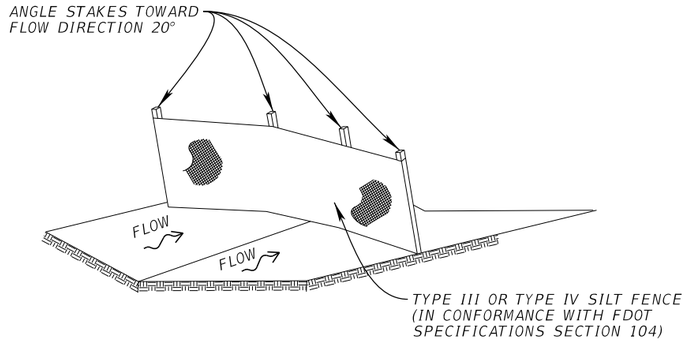


OPTION 3 - SECTION C-C

DITCH BOTTOM INLET PROTECTION



TYPE III SILT FENCE DETAIL



SILT FENCE CHECK DAM

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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TOWN OF LONGBOAT KEY

NORTON STREET

EROSION CONTROL DETAIL SHEET

SHEET NO. 51

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BEGIN PROJECT
STA. 10+11.00
℄ SURVEY NORTON STREET

℄ SURVEY
NORTON STREET

GENERAL HARRIS STREET

NORTON STREET

N26°27'28"E

MATCHLINE STA. 16+00.00

0 10 50
Feet

501
+25.93 14.30' LT.
+49.46 13.72' LT.
+72.98 21.72' LT.
+96.64 20.59' LT.

511
+24.33 16.04' LT.
+50.21 21.16' LT.
+68.38 17.67' LT.
+79.09 20.40' LT.

513
+23.94 14.10' LT.
+38.66 22.44' LT.
+01.59 25.97' LT.
+24.51 16.04' LT.

525
+55.48 22.94' LT.
+73.24 26.06' LT.

537
+03.99 33.80' LT.
+13.66 12.50' LT.

+40.43 12.64' LT.

549
+18.03 25.17' LT.
+51.96 25.49' LT.
+94.47 25.86' LT.

561
+56.86 15.80' LT.
+69.58 16.42' LT.
+85.89 17.00' LT.
+22.29 13.54' LT.

545
+45.09 22.13' RT.
+50.22 17.79' RT.
+52.65 16.05' RT.
+76.05 32.64' RT.
+09.33 30.38' RT.

514
+21.46 31.77' RT.
+51.97 17.68' RT.
+65.80 16.31' RT.
+79.05 17.10' RT.
+99.68 24.18' RT.

526
+50.56 23.60' RT.
+60.26 21.68' RT.

538
+47.82 27.37' RT.
+79.09 21.93' RT.
+99.28 23.53' RT.
+10.72 24.44' RT.

550
+20.06 9.64' RT.
+84.16 22.42' RT.
+97.72 9.29' RT.

562
+33.48 22.46' RT.
+49.12 12.75' RT.
+65.85 18.34' RT.
+86.94 18.03' RT.

LEGEND

INLET PROTECTION
SEDIMENT BARRIER
FLOATING TURBIDITY BARRIER

NOTE:
SEDIMENT BARRIER TO BE ADJUSTED TO ALLOW SITE ACCESS TO RESIDENTIAL PROPERTIES

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Kimley»Horn
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TOWN OF LONGBOAT KEY

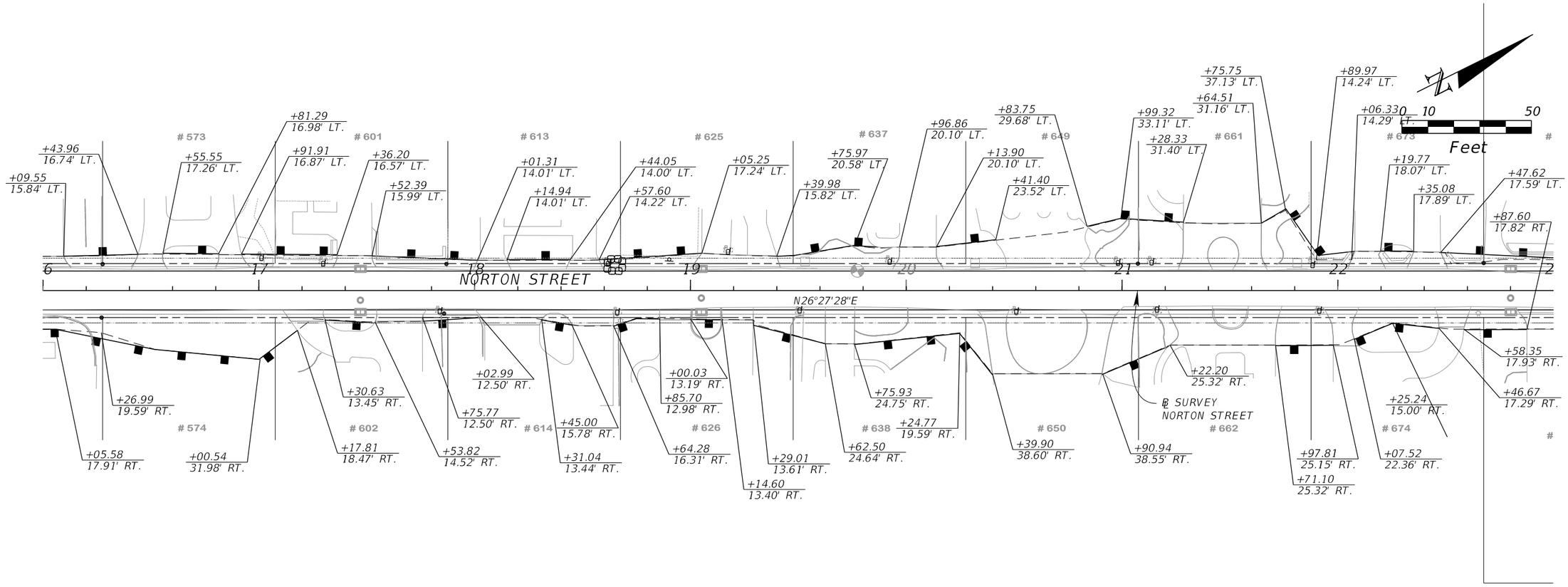
NORTON STREET

EROSION CONTROL SHEET (1)

SHEET NO. 52

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LEGEND

- INLET PROTECTION
- SEDIMENT BARRIER
- FLOATING TURBIDITY BARRIER

NOTE:
SEDIMENT BARRIER TO BE ADJUSTED TO ALLOW SITE ACCESS TO RESIDENTIAL PROPERTIES

REVISIONS			
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NORTON STREET

EROSION CONTROL SHEET (2)

SHEET NO. 53

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END PROJECT
STA. 29+03.00
℄ SURVEY NORTON STREET

0 10 50
Feet

685 # 701 # 713 # 725 # 737 # 749 # 761 # 785

+17.70 14.23' LT.
+34.74 14.82' LT.
+59.65 16.09' LT.
+10.24 26.94' LT.
+24.22 31.32' LT.
+40.39 31.30' LT.
+58.78 31.27' LT.
+99.89 31.20' LT.
+27.45 18.15' LT.
+37.33 26.98' LT.
+56.11 26.98' LT.
+65.84 26.98' LT.
+22.80 20.90' LT.
+54.05 20.91' LT.
+74.28 24.69' LT.
+01.15 16.48' LT.
+18.22 16.28' LT.
+27.69 16.17' LT.
+65.53 16.08' LT.
+72.85 16.12' LT.
+56.58 17.07' LT.
+89.68 16.31' LT.
+11.66 17.93' LT.

3 24 25 26 27 28 29

NORTON STREET

N26°27'28"E

+07.30 18.04' RT.
+26.27 19.12' RT.
+42.02 19.39' RT.
+60.32 19.33' RT.
+84.66 19.02' RT.
+00.00 17.11' RT.
+24.71 26.48' RT.
+78.70 15.00' RT.
+05.24 29.09' RT.
+51.97 15.00' RT.
+45.09 26.62' RT.
+26.88 30.28' RT.
+72.52 27.52' RT.
+24.23 31.29' RT.
+41.83 25.66' RT.
+51.70 22.50' RT.
+67.70 17.38' RT.
+81.09 16.34' RT.
+98.48 15.00' RT.
+24.20 15.54' RT.
+39.23 15.89' RT.
+49.06 16.12' RT.
+61.31 28.66' RT.
+74.09 41.72' RT.
+40.87 18.34' RT.
+16.61 23.06' RT.
+01.40 41.72' RT.
+56.82 18.31' RT.
+11.35 15.67' RT.
+76.78 14.32' RT.

686 # 702 # 714 # 726 # 738 # 750 # 762 # 774 # 786

℄ SURVEY NORTON STREET

LEGEND

INLET PROTECTION
SEDIMENT BARRIER
FLOATING TURBIDITY BARRIER

NOTE:
SEDIMENT BARRIER TO BE ADJUSTED TO ALLOW SITE ACCESS TO RESIDENTIAL PROPERTIES

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REVISIONS			
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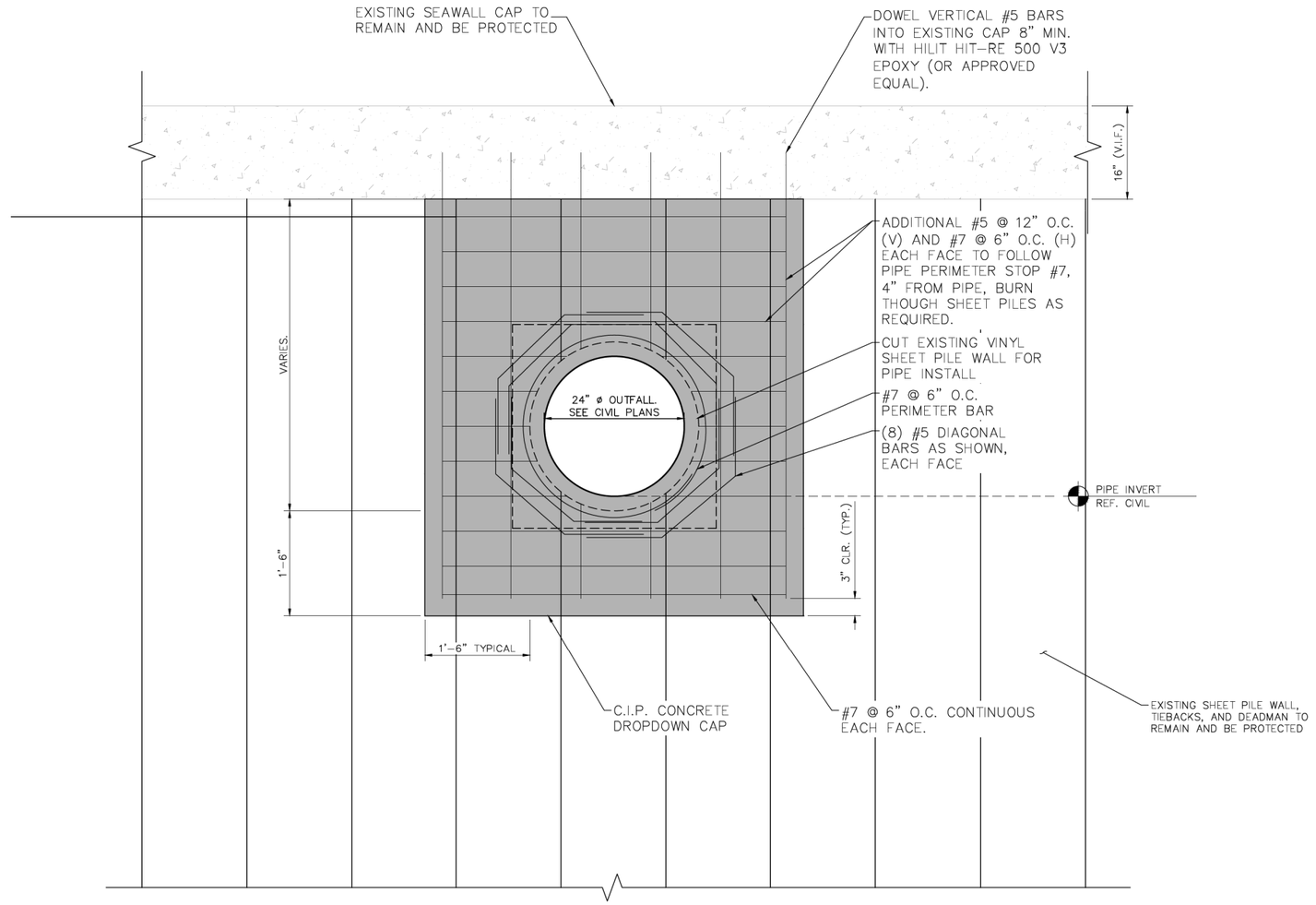
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TOWN OF LONGBOAT KEY

NORTON STREET

EROSION CONTROL SHEET (3)

SHEET NO. 54



1 PIPE PENETRATION
N.T.S.

NOTES:
1. ALL CONCRETE SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 4,000 PSI.
2. ALL CONCRETE SHALL BE PLACED IN THE DRY. DEWATERING MAY BE REQUIRED.
3. ALL REINFORCING STEEL SHALL BE MANUFACTURED IN ACCORDANCE WITH ASTM A615 WITH SUPPLEMENT, GRADE 60, MAX. WORKING STRESS OF 24,000 PSI
4. CONTRACTOR SHALL PROTECT EXISTING SEAWALL, SEAWALL CAP, TIE RODS, AND DEADMAN.
5. COVER TO REINFORCING SHALL BE 3" U.O.N.
6. *REFER TO DELEGATED DESIGN NOTES ON PLAN SHEET 11*

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Kimley»Horn
MOLLY CHARLENE WILLIAMS, P.E.
P.E. LICENSE NUMBER: 54281
1800 SECOND STREET, SUITE 900
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(941) 379-7600

TOWN OF LONGBOAT KEY

NORTON STREET

SEAWALL PENETRATION DETAIL

SHEET NO.

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