

CONTRACT PLANS COMPONENTS

ROADWAY PLANS
EXISTING CONDITIONS LANDSCAPE PLANS
LANDSCAPE RESTORATION PLANS

INDEX OF ROADWAY PLANS

SHEET NO.	SHEET DESCRIPTION
1	KEY SHEET
2	SIGNATURE SHEET
3	SUMMARY OF PAY ITEMS
4-6	DRAINAGE MAP
7	DRAINAGE STRUCTURE INFORMATION
8	SUMMARY OF DRAINAGE STRUCTURES
9	TYPICAL SECTIONS
10	PROJECT LAYOUT AND CONTROL
11	GENERAL NOTES
12	SPECIAL DETAILS
13	VALLEY GUTTER INLET DETAIL
14	WET WELL DETAIL
15-17	PLAN AND PROFILE SHEETS
18-20	DRAINAGE STRUCTURE SECTIONS
21	OUTFALL PROFILES
22-34	CROSS SECTIONS
35-42	DRIVEWAY HALF SECTIONS
43-44	UTILITY ADJUSTMENT SHEETS
45-46	WATER MAIN PROFILE
47-48	UTILITY DETAIL SHEETS
49-50	STORMWATER POLLUTION PREVENTION PLAN
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

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:

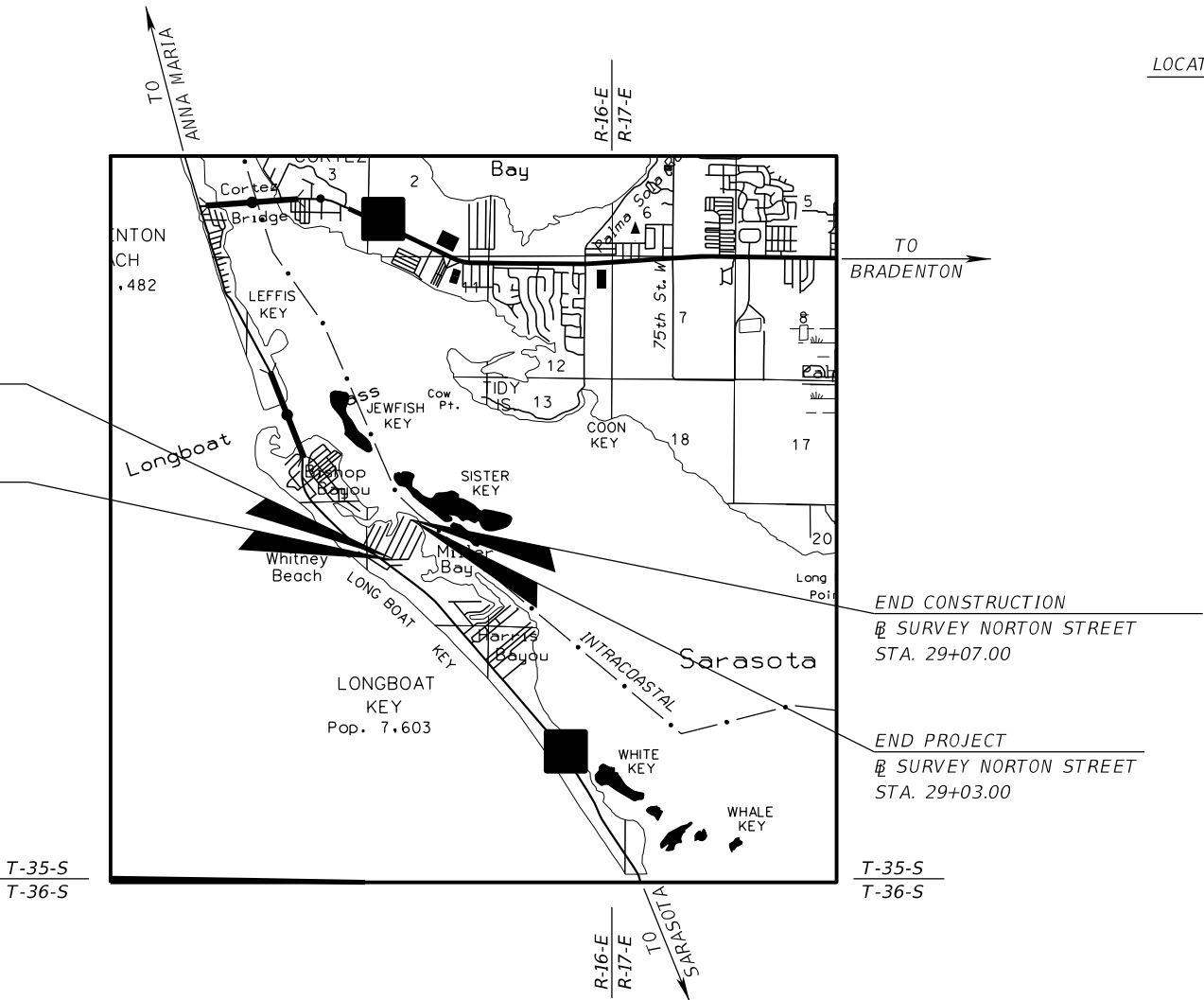
Florida Department of Transportation, FY 2024-25 Standard Specifications for Road and Bridge Construction at the following website: <http://www.fdot.gov/programmanagement/Implemented/SpecBooks>

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>

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

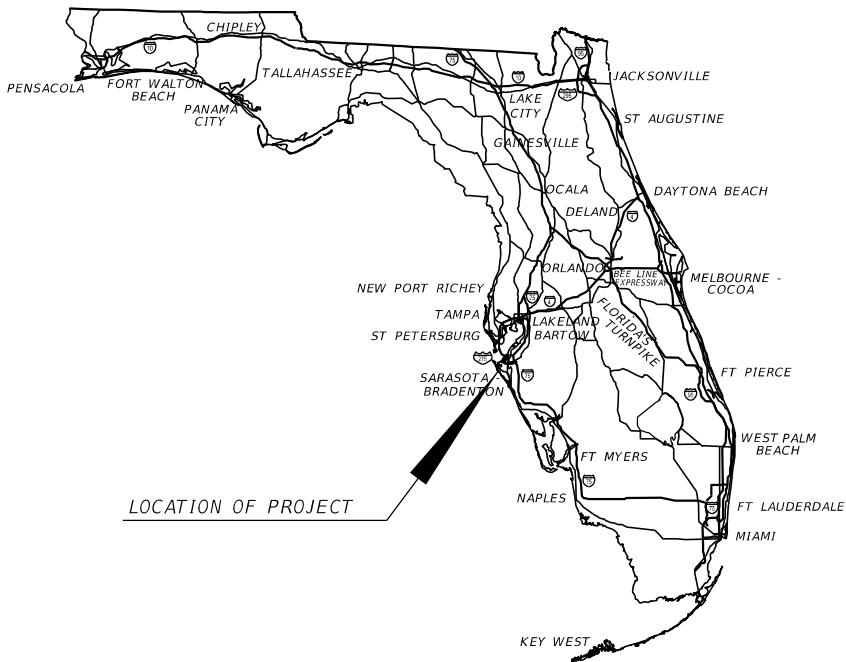


END CONSTRUCTION
@ SURVEY NORTON STREET
STA. 29+07.00

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	DISTRICT 4
SARAH KARON	DISTRICT 5
B.J. BISHOP	AT-LARGE
MIKE HAYCOCK, VICE MAYOR	AT-LARGE

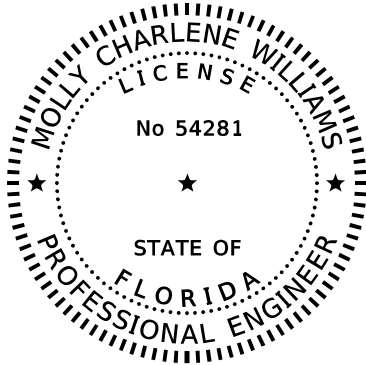
ATTENTION IS DIRECTED TO THE FACT THAT THESE PLANS MAY HAVE BEEN REDUCED IN SIZE BY REPRODUCTION. THIS MUST BE CONSIDERED WHEN OBTAINING SCALE DATA.

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
FEBRUARY 2025

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



THIS ITEM HAS BEEN DIGITALLY
SIGNED AND SEALED BY

ON THE DATE ADJACENT TO THE SEAL

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

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.

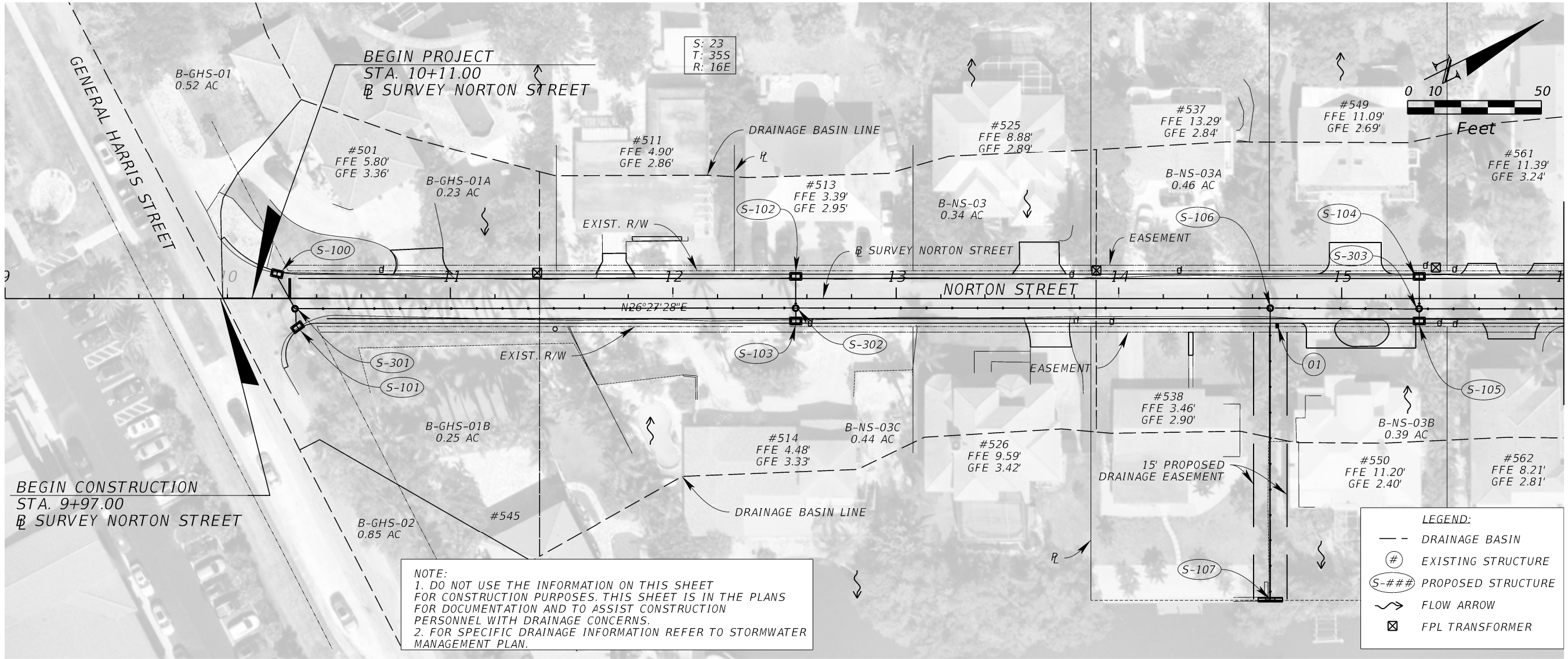
ROADWAY PLANS

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

REVISIONS				<div>Kimley»Horn</div> <div>MOLLY CHARLENE WILLIAMS, P.E. P.E. LICENSE NUMBER: 54281 1800 SECOND STREET, SUITE 900 SARASOTA, FL 34236 (941) 379-7600</div>	TOWN OF LONGBOAT KEY	SIGNATURE SHEET	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		NORTON STREET		2

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	2672
0104 11	FLOATING TURBIDITY BARRIER	LF	10
0107 1	LITTER REMOVAL	AC	3.8
0107 2	MOWING	AC	3.8
0110 1 1	CLEARING & GRUBBING	AC	1.7
0110 4 10	REMOVAL OF EXISTING CONCRETE	SY	338
0110 7 1	MAILBOX, F&I, SINGLE	EA	44
0120 1	REGULAR EXCAVATION	CY	453
0120 6	EMBANKMENT	CY	222
0121 70	FLOWABLE FILL	CY	9.33
0160 4	TYPE B STABILIZATION	SY	1268
0285 7 11	OPTIONAL BASE, BASE GROUP 11	SY	3811
0327 70 6	MILLING EXIST ASPH PAVT, 1 1/2" AVG DEPTH	SY	3811
0334 1 53	SUPERPAVE ASPHALTIC CONCRETE, TRAFFIC C, PG 76-22	TN	315
0520 0000	CONCRETE CURB, 2' VALLEY GUTTER	LF	3733
0520 2100	CONCRETE CURB, RIBBON CURB	LF	72
0570 1 2	PERFORMANCE TURF, SOD	SY	3068
Signing			
0700 1 111	SINGLE COLUMN GROUND SIGN ASSEMBLY, F&I GROUND MOUNT, LESS THAN 12 SF	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	15
0425 2 71	MANHOLES, J-7, <10'	EA	9
0430 175 112	PIPE CULVERT, OPTIONAL MATERIAL, ROUND, 12" S/CD	LF	17
0430 175 118	PIPE CULVERT, OPTIONAL MATERIAL, ROUND, 18" S/CD	LF	337
0430 175 124	PIPE CULVERT, OPTIONAL MATERIAL, ROUND, 24" S/CD	LF	1748
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	3
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	8
U-WS	POTABLE WATER SERVICE CONNECTION ADJUSTMENTS	EA	26
U-SS	SANITARY SERVICE CONNECTION ADJUSTMENTS	EA	21

REVISIONS				Kimley»Horn <small>MOLLY CHARLENE WILLIAMS, P.E. P.E. LICENSE NUMBER: 54281 1800 SECOND STREET, SUITE 900 SARASOTA, FL 34236 (941) 379-7600</small>	TOWN OF LONGBOAT KEY NORTON STREET	SUMMARY OF PAY ITEMS	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION				



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

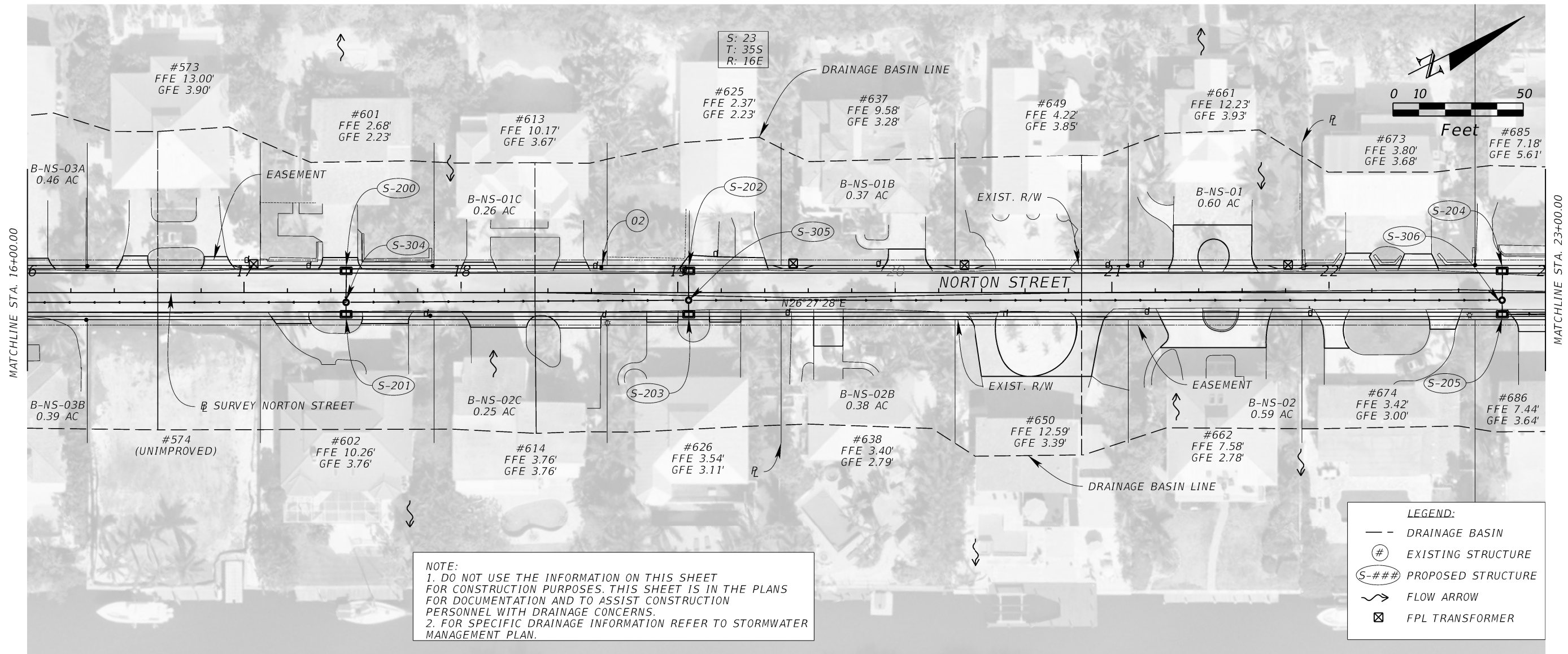
TOWN OF LONGBOAT KEY

NORTON STREET

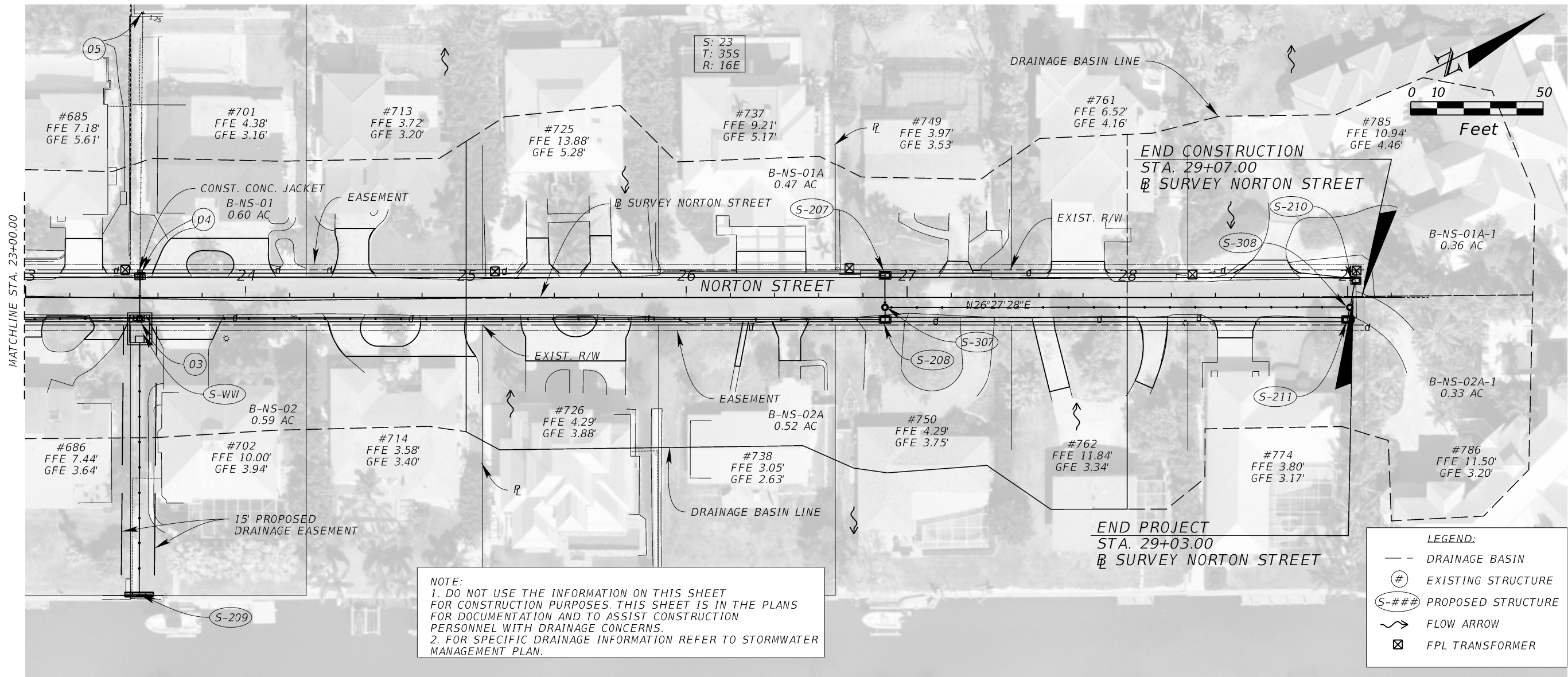
DRAINAGE MAP (1)

SHEET NO.

4



REVISIONS				Kimley»Horn	TOWN OF LONGBOAT KEY	DRAINAGE MAP (2)	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION				
				MOLLY CHARLENE WILLIAMS, P.E. P.E. LICENSE NUMBER: 54281 1800 SECOND STREET, SUITE 900 SARASOTA, FL 34236 (941) 379-7600	NORTON STREET		5



REVISIONS				Kimley»Horn	TOWN OF LONGBOAT KEY	DRAINAGE MAP (3)	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION				
				MOLLY CHARLENE WILLIAMS, P.E. P.E. LICENSE NUMBER: 54281 1800 SECOND STREET, SUITE 900 SARASOTA, FL 34236 (941) 379-7600	NORTON STREET		6

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

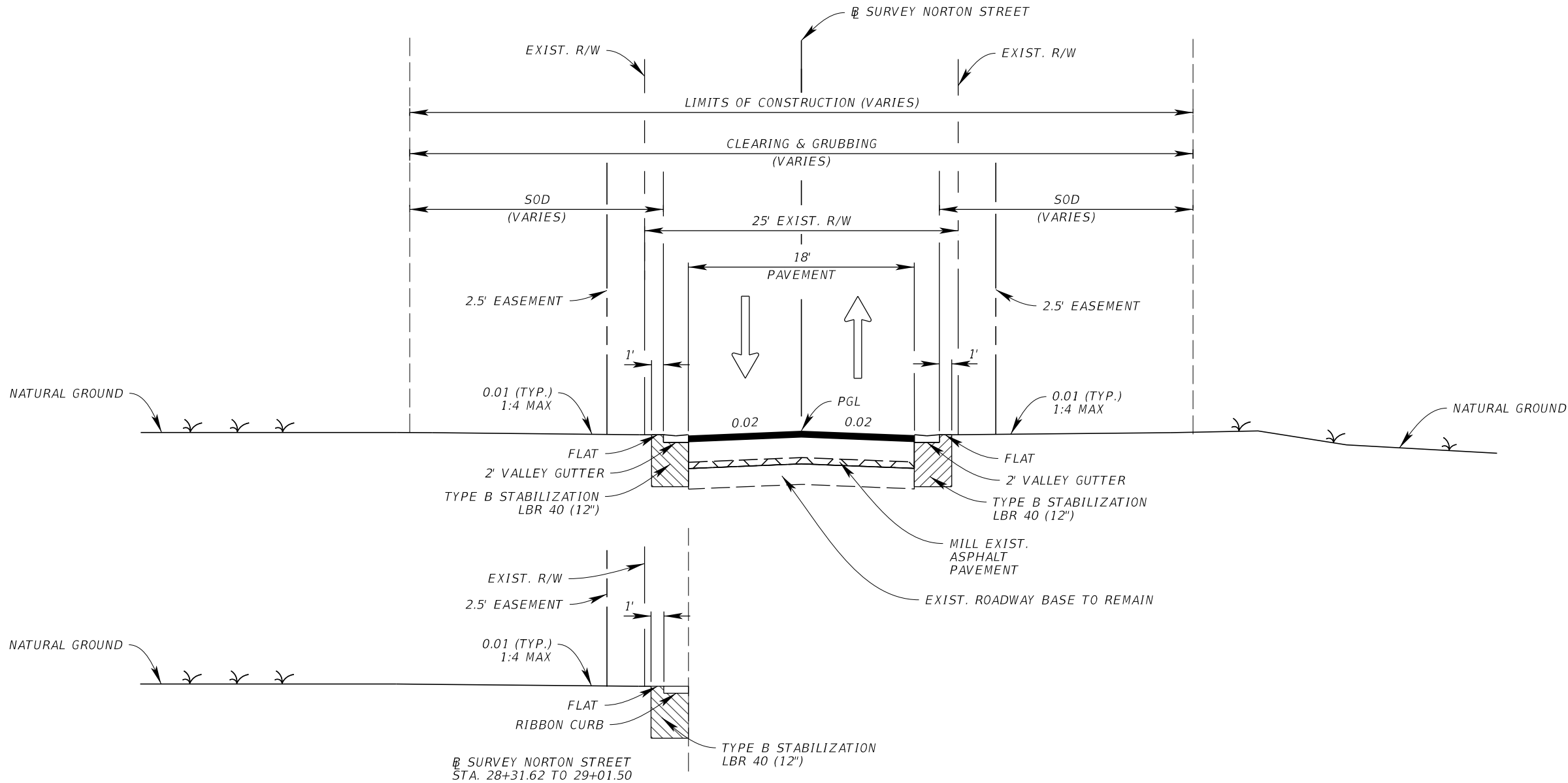
CHECK VALVE
BOTTOM FLAP INV. -1.25'
(TO BE REPLACED)

REVISIONS				<div>Kimley»Horn</div> <div>MOLLY CHARLENE WILLIAMS, P.E. P.E. LICENSE NUMBER: 54281 1800 SECOND STREET, SUITE 900 SARASOTA, FL 34236 (941) 379-7600</div>	TOWN OF LONGBOAT KEY	DRAINAGE STRUCTURE INFORMATION	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION				7
					NORTON STREET		

SUMMARY OF DRAINAGE STRUCTURES

Q T Y	STR. NO.	STATION	SIDE	DESCRIPTION	BARRELS	SIZE	LENGTH	STORM PIPE (LF)			MANHOLE		DITCH BOTTOM INLET	GUTTER INLET	BOX STRUCTURE	ENDWALL	MODIFY EXISTING STRUCTURE	SOD (SY)	RIP RAP (CY)	REMARKS
								12"	18"	24"	P-7 (<10')	MANHOLE TOP (2' DIA.)	C (<10')	VALLEY (MOD.) P- BOTTOM	WET WELL					
															8'x12'	24"				
P	S-100	10+22.35	LT	MODIFIED VALLEY GUTTER INLET	1	18"	15		15				1						P-BOTTOM (4.0' DIA.)	
F																				
P	S-101	10+31.83	RT	MODIFIED VALLEY GUTTER INLET	1	18"	6		6				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')	
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						P-BOTTOM (3.5'X3.5')	
F																				
P	S-105	15+35.00	RT	MODIFIED VALLEY GUTTER INLET	1	18"	3		3				1						P-BOTTOM (3.5'X3.5')	
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	ENDWALL	1	24"	130								1					
F																				
P	S-200	17+47.00	LT	MODIFIED VALLEY GUTTER INLET	1	18"	12		12				1						P-BOTTOM (3.5'X3.5')	
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						P-BOTTOM (3.5'X3.5')	
F																				
P	S-204	22+80.00	LT	MODIFIED VALLEY GUTTER INLET	1	18"	11		11				1						P-BOTTOM (3.5'X3.5')	
F																				
P	S-205	22+80.00	RT	MODIFIED VALLEY GUTTER INLET	1	24"	66			66			1						P-BOTTOM (3.5'X3.5')	
F																				
P	S-207	26+90.00	LT	MODIFIED VALLEY GUTTER INLET	1	18"	12		12				1						P-BOTTOM (3.5'X3.5')	
F																				
P	S-208	26+90.00	RT	MODIFIED VALLEY GUTTER INLET	1	24"	332			332			1						P-BOTTOM (3.5'X3.5')	
F																				
P	S-209	23+51.50	RT	ENDWALL	1	24"	115								1					
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+30.33	RT	MANHOLE	1	18"	221		221		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	1	24"	64			64	1								P-BOTTOM (3.5'X3.5')	
F																				
P	S-304	17+47.00	RT	MANHOLE	1	24"	208			208	1								P-BOTTOM (3.5'X3.5')	
F						24"	154			154										
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	1	24"	3			3	1								P-BOTTOM (3.5'X3.5')	
F																				
P	S-308	29+01.00	RT	MANHOLE	1	24"	207			207	1								P-BOTTOM (4.0' DIA.)	
F																				
P	S-JACKET	23+51.83	LT	CONC. JACKET	1	12"	20	17											CONNECT TO EXIST. PIPE	
F																				
P	S-WW	23+51.72	RT	8' x 12' WET WELL	1	24"	115			115		1		1					HDPE PIPE	
F																				
PROJECT TOTALS - PLAN QUANTITY								17	337	1863	9	1	1	15	1	2	0	8	0	
PROJECT TOTALS - FINAL QUANTITY																				

REVISIONS				<div>Kimley»Horn</div> <div>MOLLY CHARLENE WILLIAMS, P.E. P.E. LICENSE NUMBER: 54281 1800 SECOND STREET, SUITE 900 SARASOTA, FL 34236 (941) 379-7600</div>	TOWN OF LONGBOAT KEY	SUMMARY OF DRAINAGE STRUCTURES	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION				
							8



DESIGN SPEED = 20 MPH
POSTED SPEED = 20 MPH

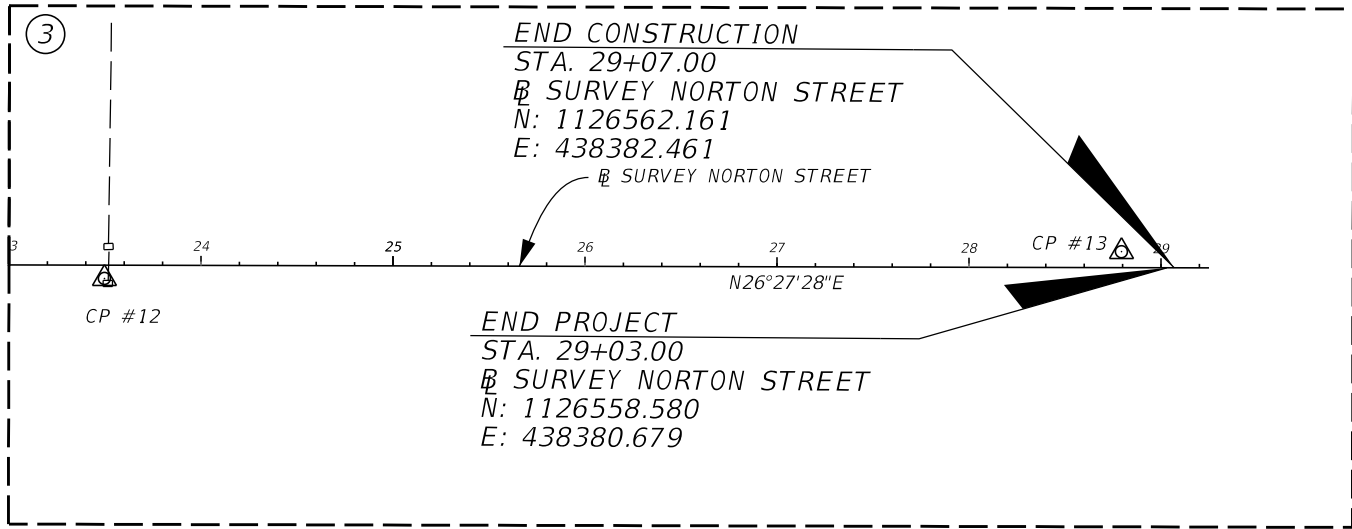
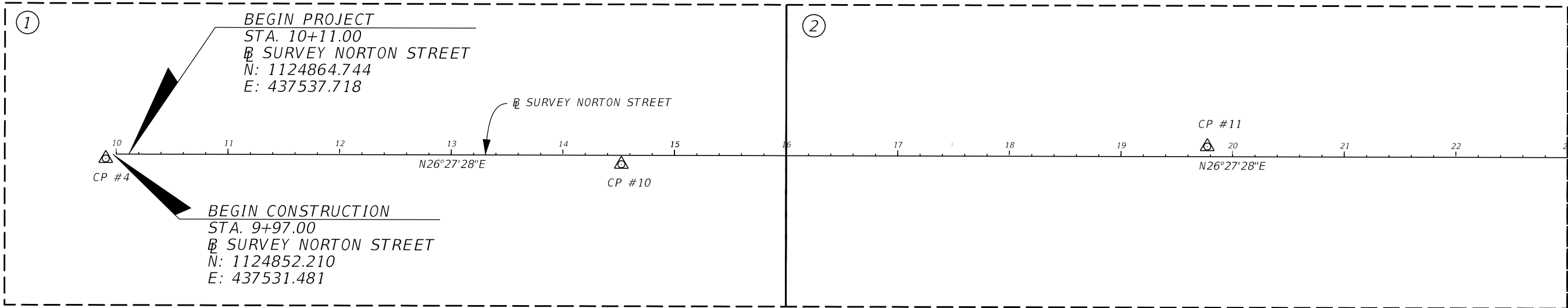
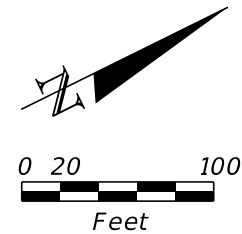
TYPICAL SECTION
NORTON STREET
STA. 9+97.00 TO STA. 29+07.00

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

REVISIONS				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	TYPICAL SECTION	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		NORTON STREET		9

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



- NOTES:
- THIS SURVEY IS REFERENCED TO A PROJECTION OF THE STATE PLANE COORDINATE SYSTEM OF FLORIDA WEST ZONE (NAD 1983/2011 ADJUSTMENT).
 - 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'.
 - THIS SURVEY IS SUBJECT TO PERTINENT EASEMENTS, RIGHTS-OF-WAY AND RESTRICTIONS OF RECORD, IF ANY.
 - THIS DRAWING IS NOT A BOUNDARY SURVEY.
 - 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'

LEGEND

SHEET NO.

LIMITS OF PLAN COVERAGE

REVISIONS				<div>Kimley»Horn</div> <div><small>MOLLY CHARLENE WILLIAMS, P.E. P.E. LICENSE NUMBER: 54281 1800 SECOND STREET, SUITE 900 SARASOTA, FL 34236 (941) 379-7600</small></div>	TOWN OF LONGBOAT KEY	PROJECT LAYOUT & CONTROL	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION				10
					NORTON STREET		

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

GENERAL NOTES

1.

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

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.

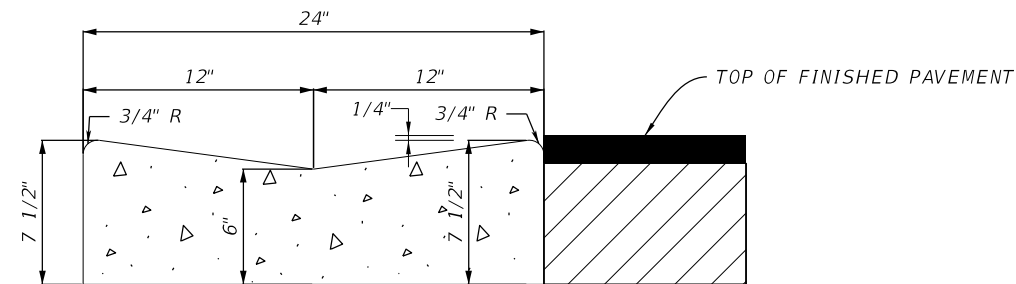
3. THE DESIGN CRITERIA SHALL BE CLEARLY SHOWN ON THE PLANS PROVIDED BY THE PRECASTER'S STRUCTURAL ENGINEER.

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.

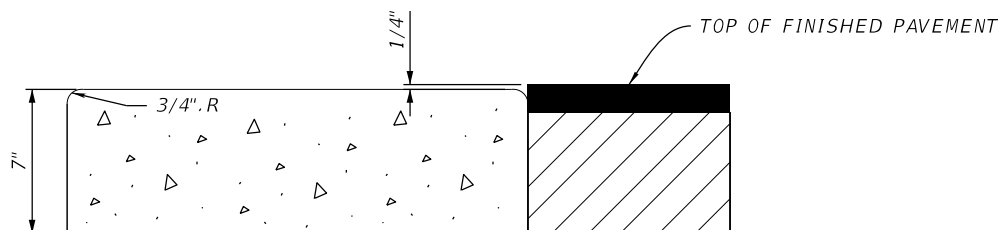
REVISIONS				Kimley»Horn MOLLY CHARLENE WILLIAMS, P.E. P.E. LICENSE NUMBER: 54281 1800 SECOND STREET, SUITE 900 SARASOTA, FL 34236 (941) 379-7600	TOWN OF LONGBOAT KEY	GENERAL NOTES	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		NORTON STREET		11

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



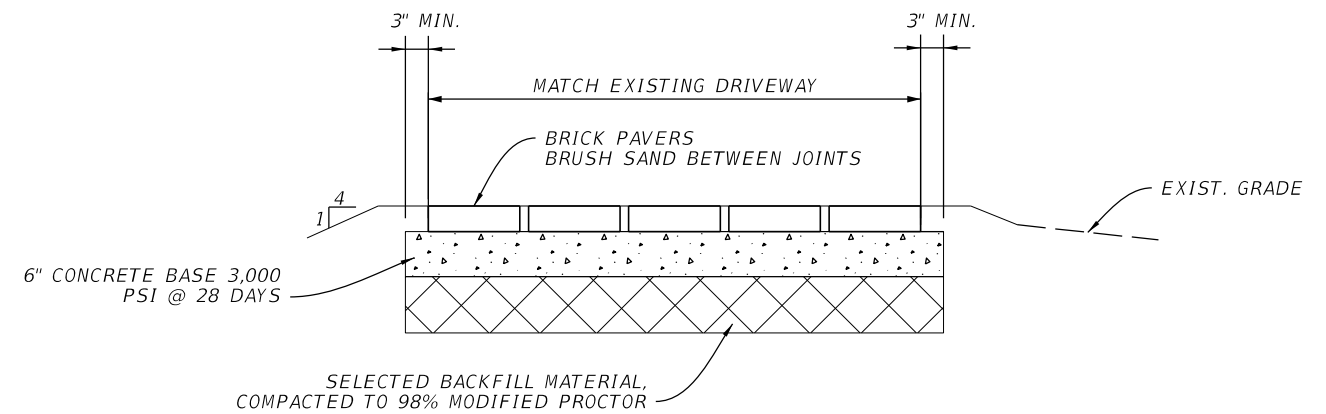
2' VALLEY CURB DETAIL

SECTION VIEW
N.T.S.



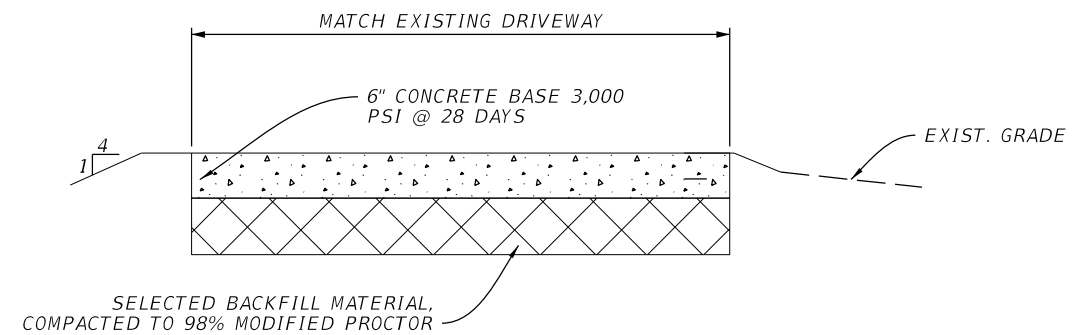
RIBBON CURB DETAIL

SECTION VIEW
N.T.S.



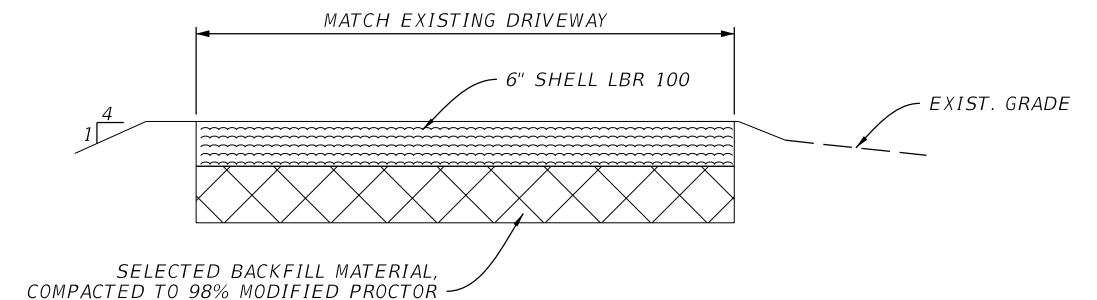
BRICK PAVER DRIVE DETAIL

SECTION VIEW
N.T.S.



CONCRETE DRIVE DETAIL

SECTION VIEW
N.T.S.

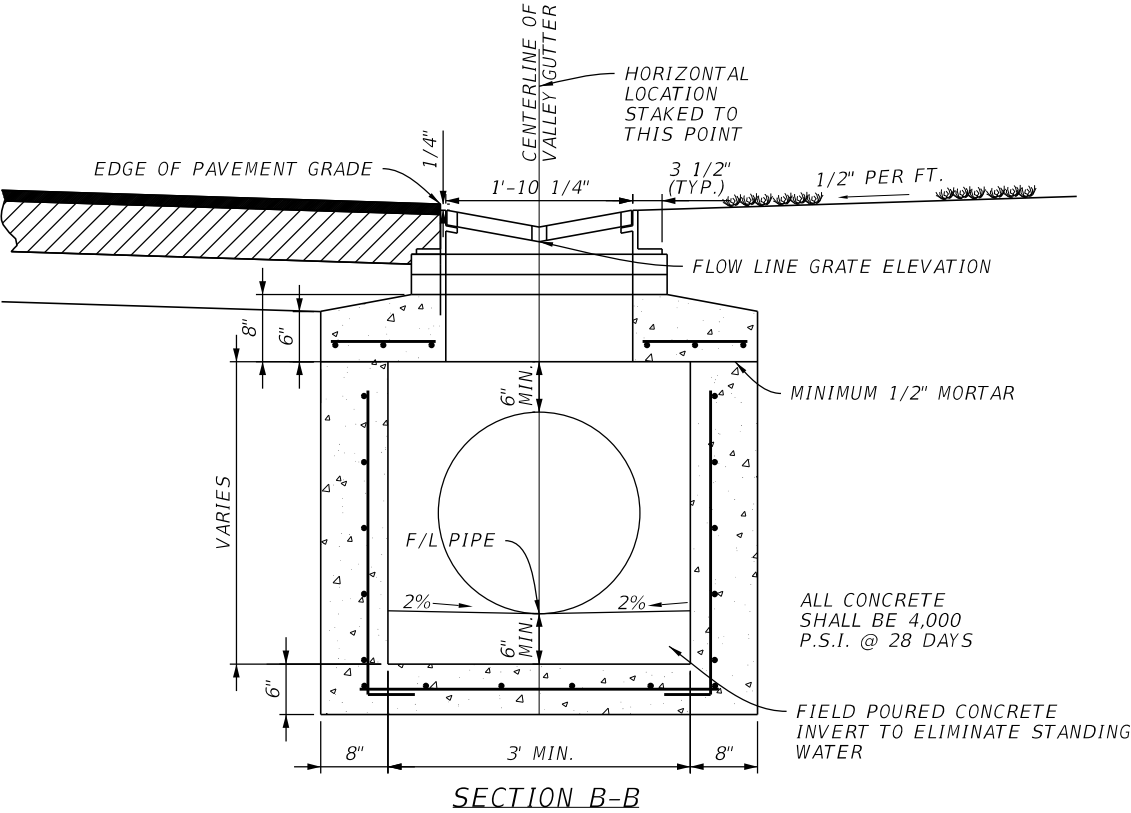
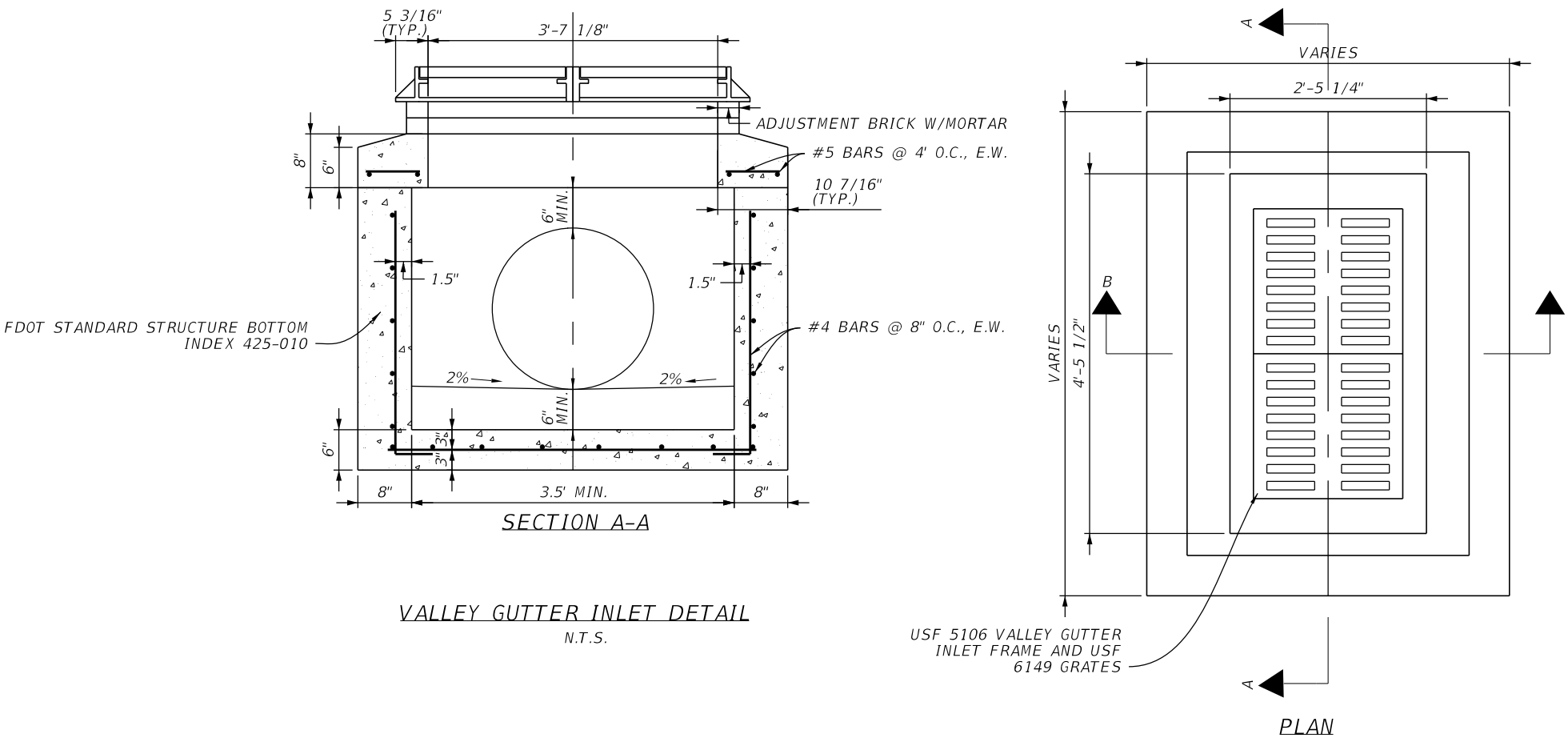


SHELL DRIVE DETAIL

SECTION VIEW
N.T.S.

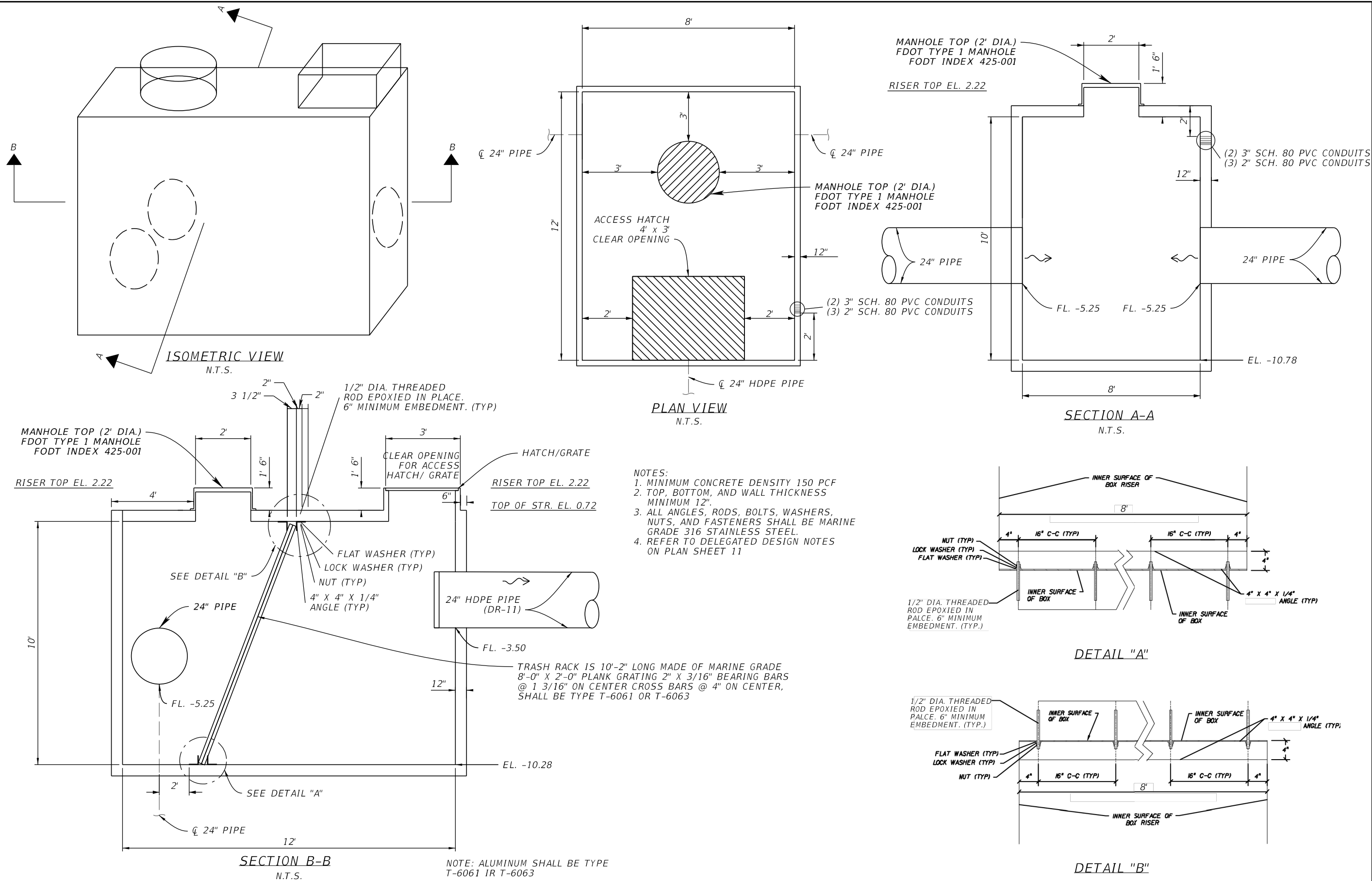
NOTE: DRIVEWAY DETAILS ARE LIMITED TO AREAS WITHIN THE RIGHT-OF-WAY OR PROPOSED EASEMENT.
AREAS OUTSIDE OF THE RIGHT-OF-WAY OR EASEMENT SHALL BE ACCORDING TO OWNER AGREEMENTS.

REVISIONS				<div>Kimley»Horn</div> <div> MOLLY CHARLENE WILLIAMS, P.E. P.E. LICENSE NUMBER: 54281 1800 SECOND STREET, SUITE 900 SARASOTA, FL 34236 (941) 379-7600 </div>	TOWN OF LONGBOAT KEY	SPECIAL DETAILS	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION				
					NORTON STREET		12



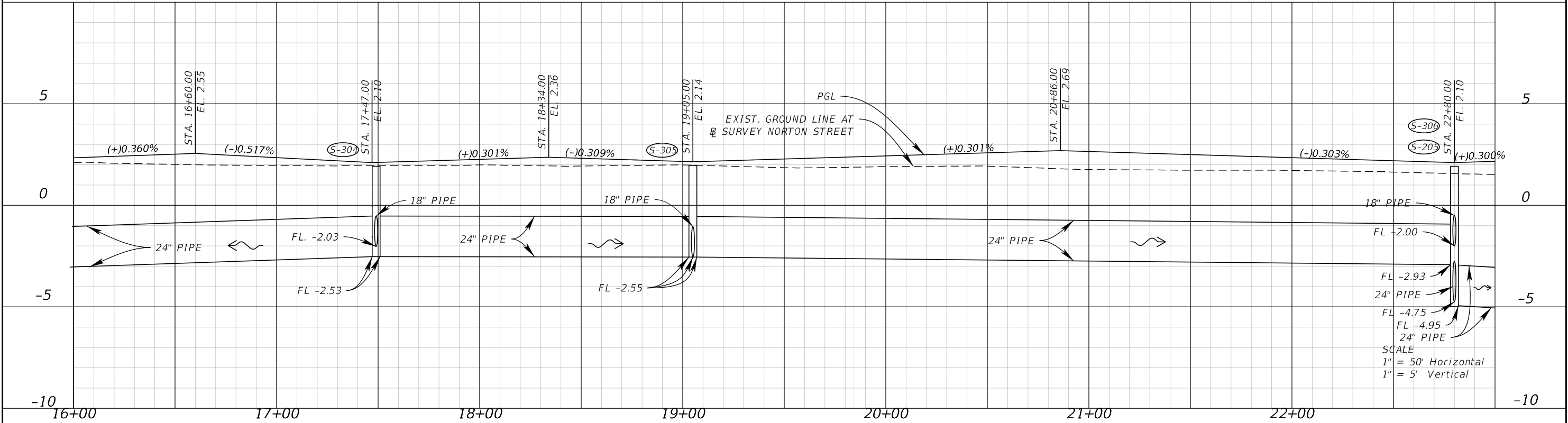
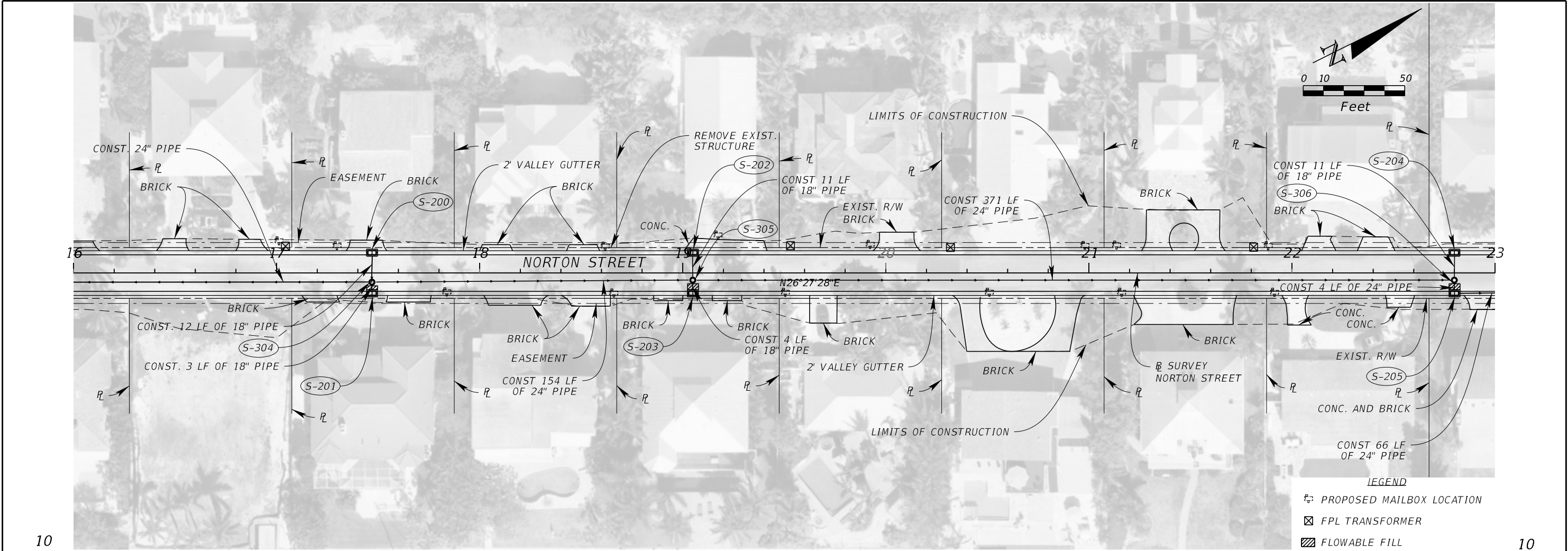
REVISIONS				Kimley»Horn	TOWN OF LONGBOAT KEY	VALLEY GUTTER INLET DETAIL	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION				
				MOLLY CHARLENE WILLIAMS, P.E. P.E. LICENSE NUMBER: 54281 1800 SECOND STREET, SUITE 900 SARASOTA, FL 34236 (941) 379-7600	NORTON STREET		13

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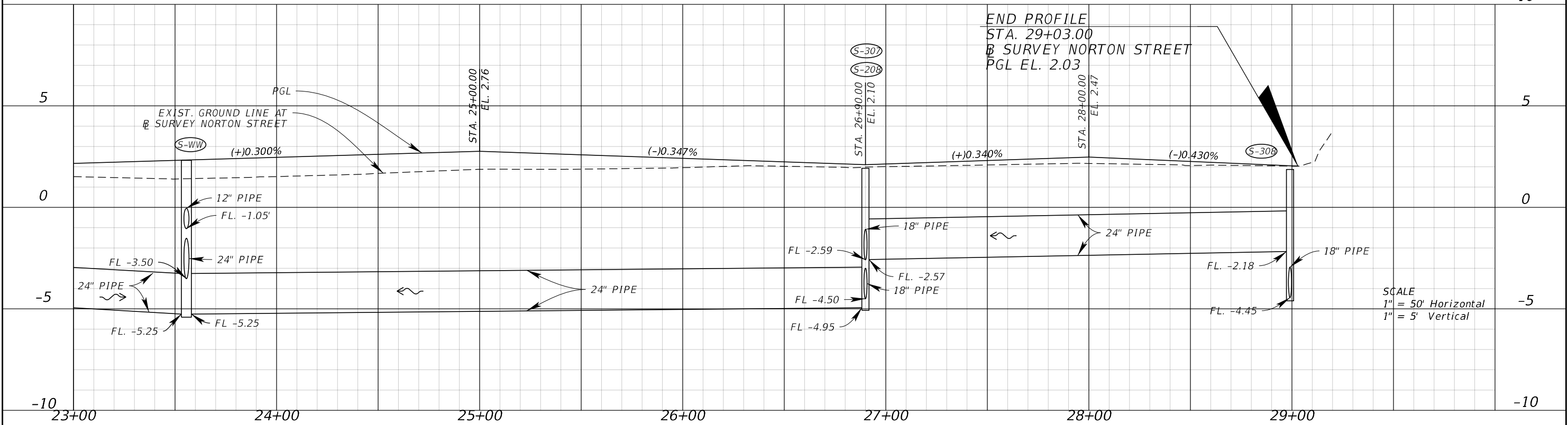
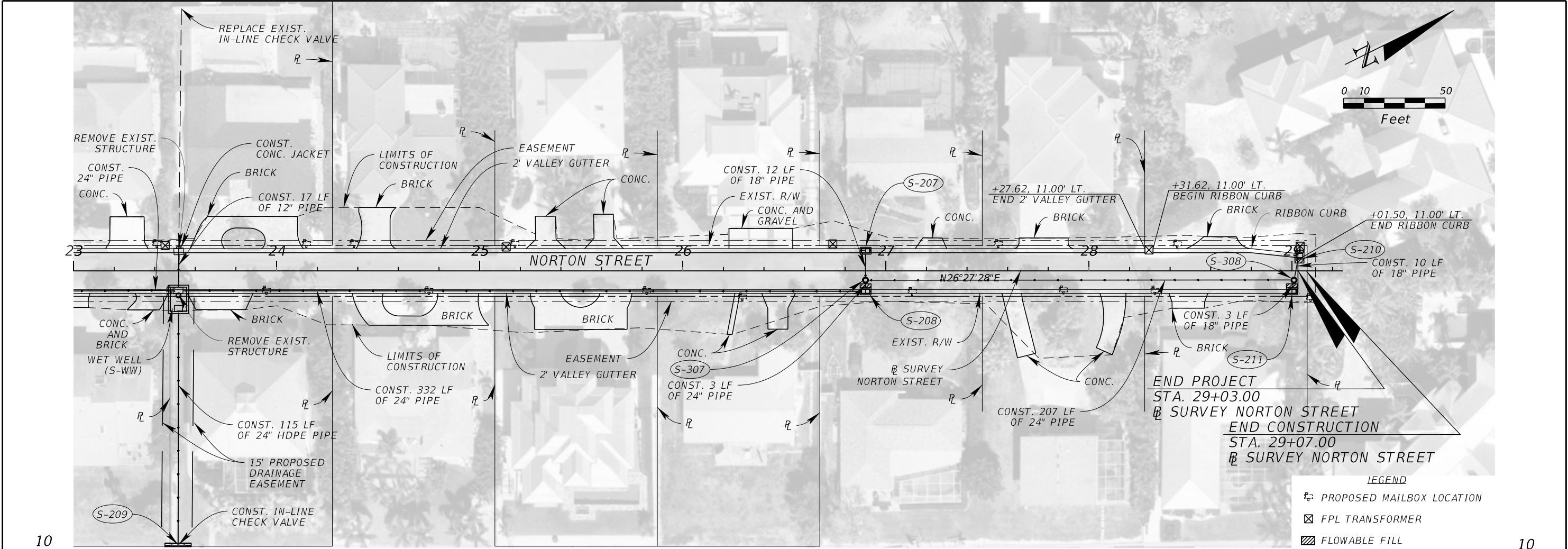
REVISIONS				Kimley»Horn	TOWN OF LONGBOAT KEY	WET WELL DETAIL (S-WW)	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION				
				MOLLY C. WILLIAMS, P.E. P.E. LICENSE NUMBER: 54281 1800 SECOND STREET, SUITE 900 SARASOTA, FL 34236 (941) 379-7600	NORTON STREET		14

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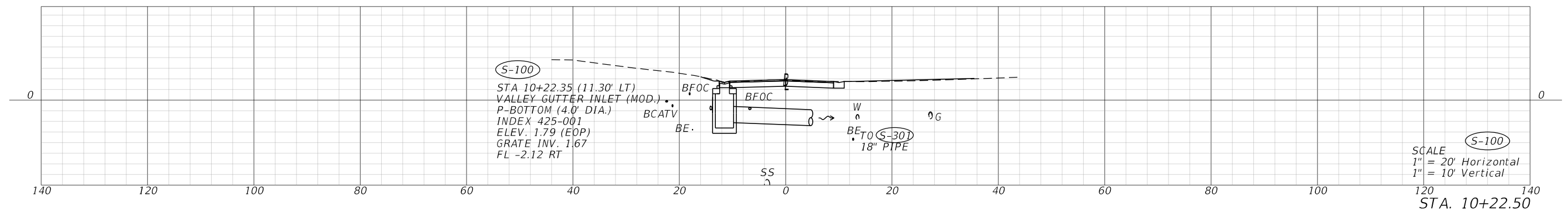
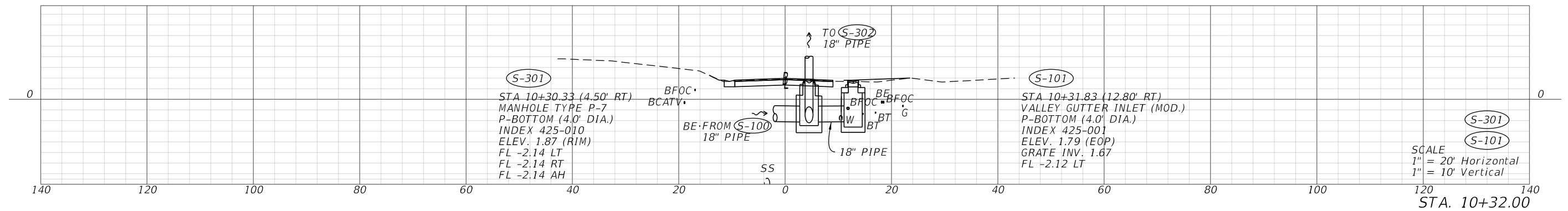
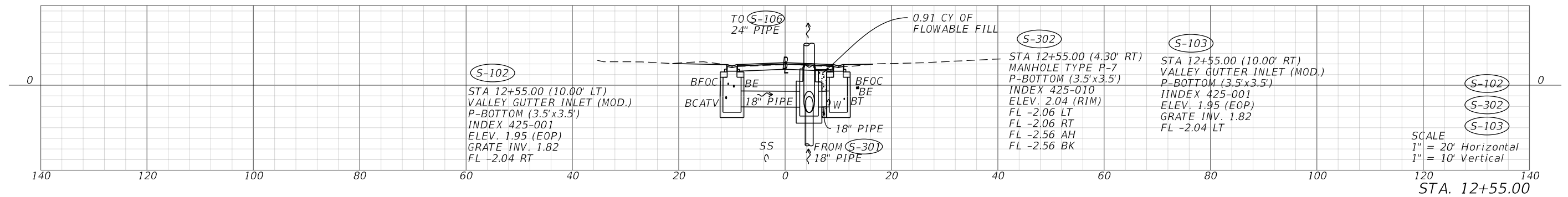
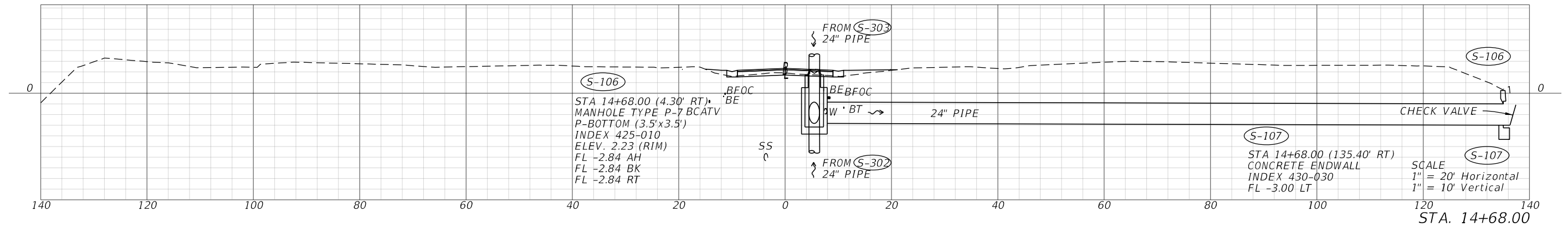
REVISIONS				Kimley»Horn	TOWN OF LONGBOAT KEY	PLAN AND PROFILE (2)	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION				
				MOLLY CHARLENE WILLIAMS, P.E. P.E. LICENSE NUMBER: 54281 1800 SECOND STREET, SUITE 900 SARASOTA, FL 34236 (941) 379-7600	NORTON STREET		16

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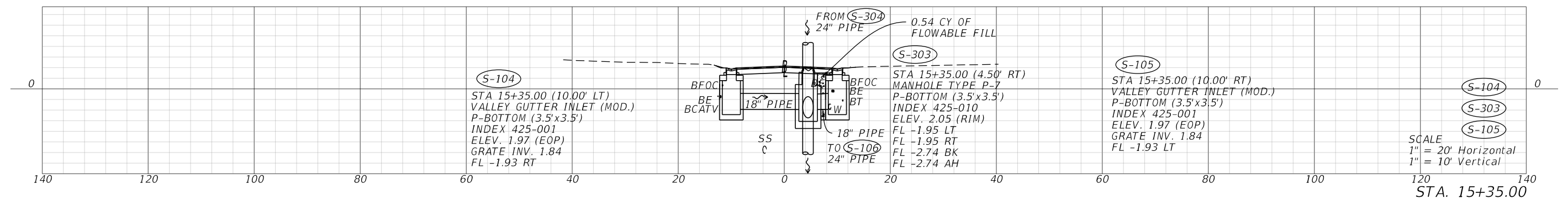
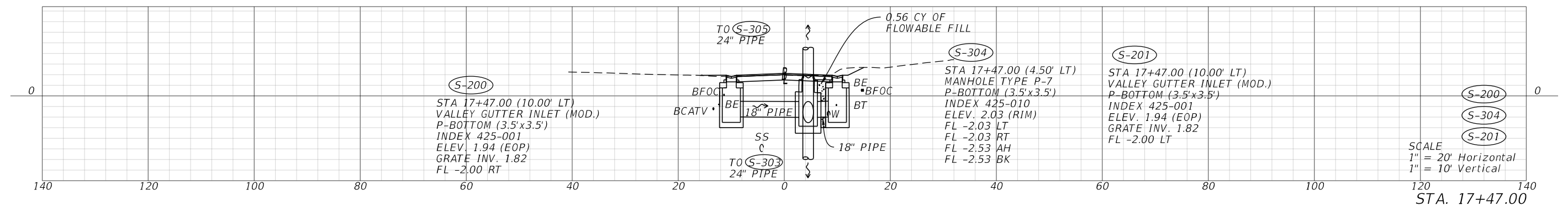
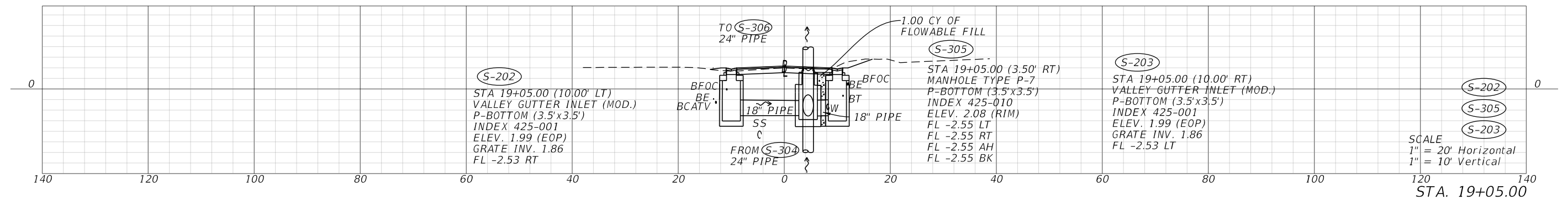
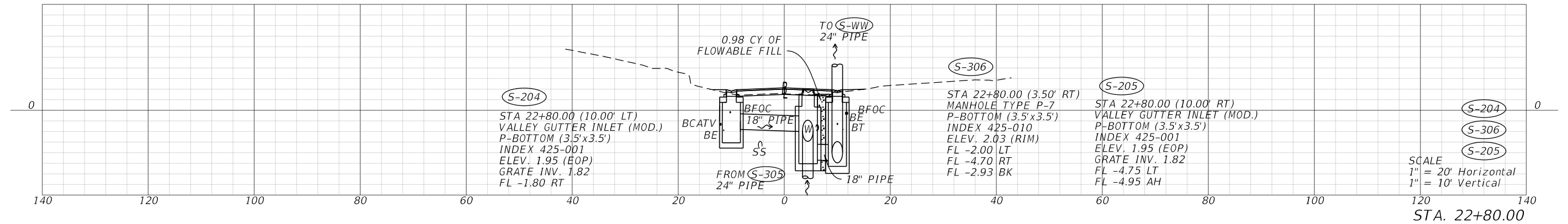


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DATE	DESCRIPTION	DATE	DESCRIPTION				
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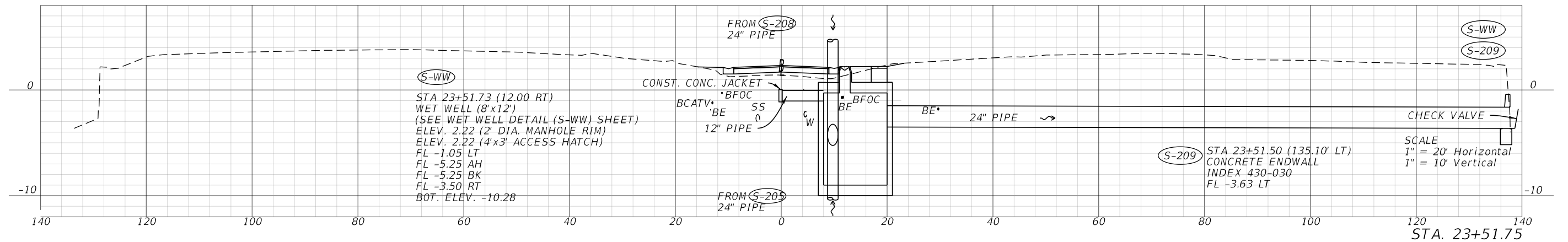
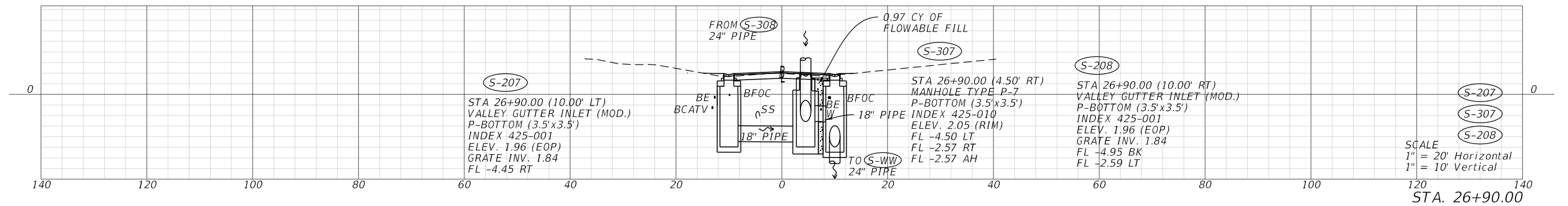
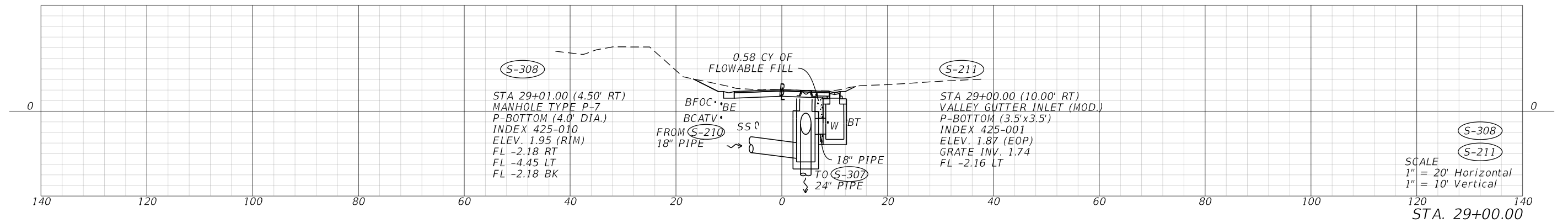
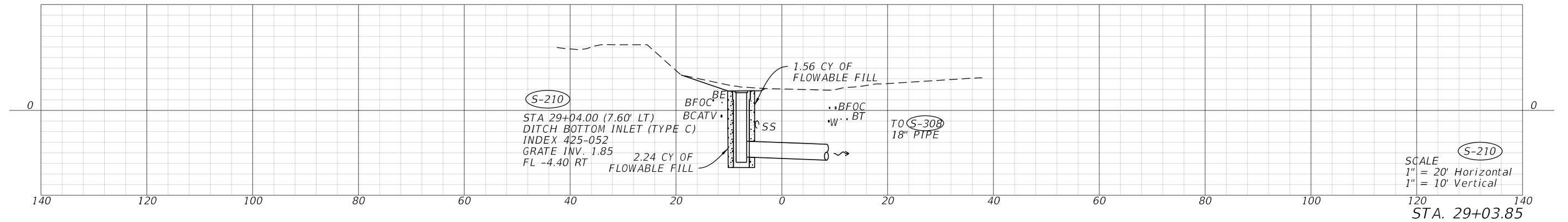
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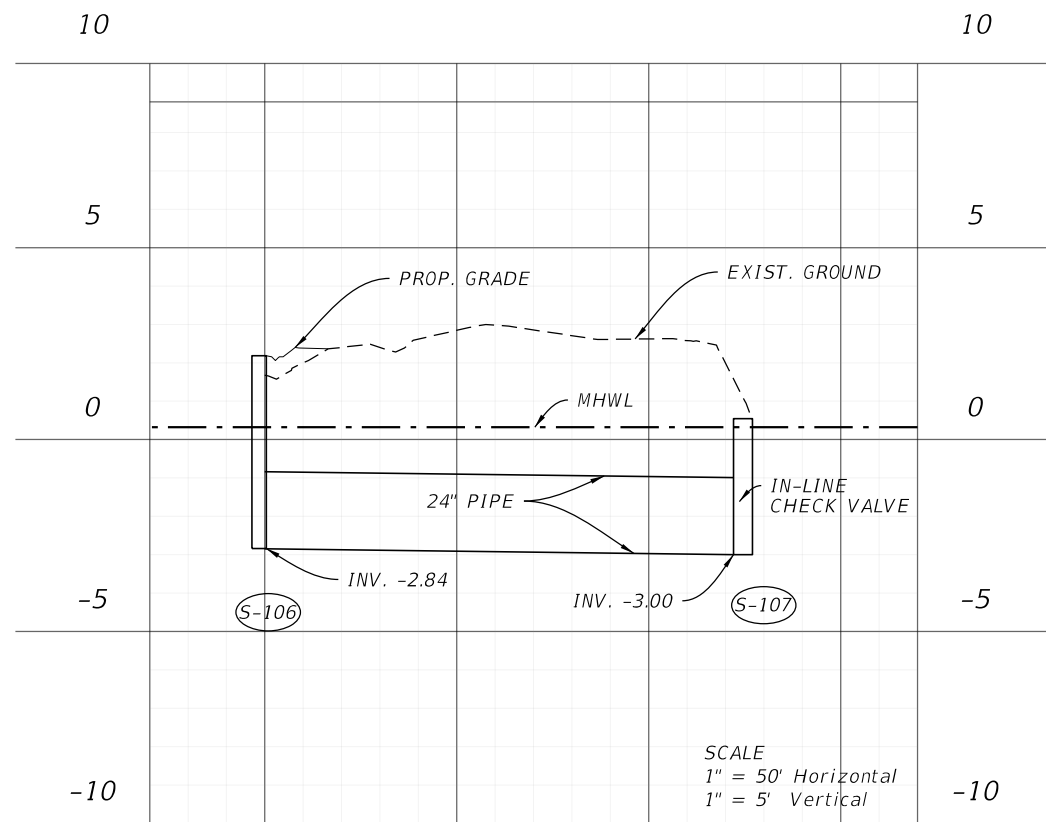
REVISIONS				Kimley»Horn	TOWN OF LONGBOAT KEY	DRAINAGE STRUCTURES	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION				
				MOLLY CHARLENE WILLIAMS, P.E. P.E. LICENSE NUMBER: 54281 1800 SECOND STREET, SUITE 900 SARASOTA, FL 34236 (941) 379-7600	NORTON STREET		18



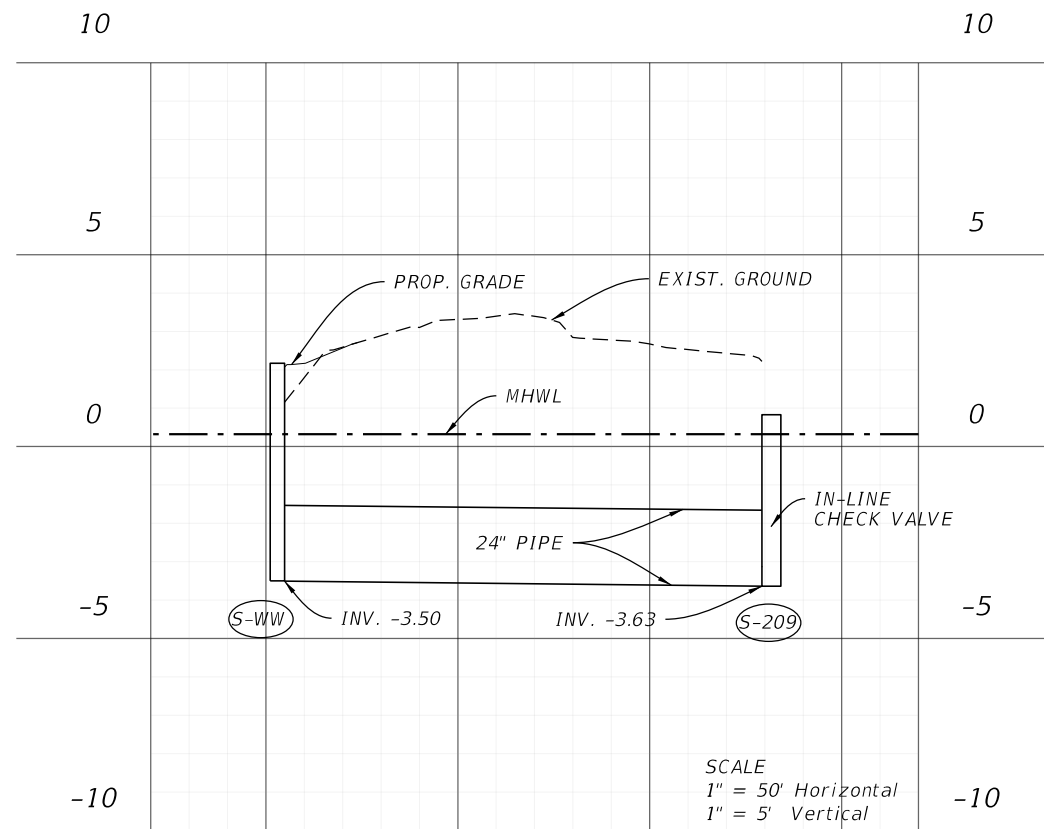
REVISIONS				<div>Kimley»Horn</div> <div> MOLLY CHARLENE WILLIAMS, P.E. P.E. LICENSE NUMBER: 54281 1800 SECOND STREET, SUITE 900 SARASOTA, FL 34236 (941) 379-7600 </div>	TOWN OF LONGBOAT KEY	DRAINAGE STRUCTURES	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION				
					NORTON STREET		19



REVISIONS				Kimley»Horn	TOWN OF LONGBOAT KEY	DRAINAGE STRUCTURES	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION				
				MOLLY CHARLENE WILLIAMS, P.E. P.E. LICENSE NUMBER: 54281 1800 SECOND STREET, SUITE 900 SARASOTA, FL 34236 (941) 379-7600	NORTON STREET		20



OUTFALL 1
S-106 TO S-107
STA. 14+68.00 (RT)

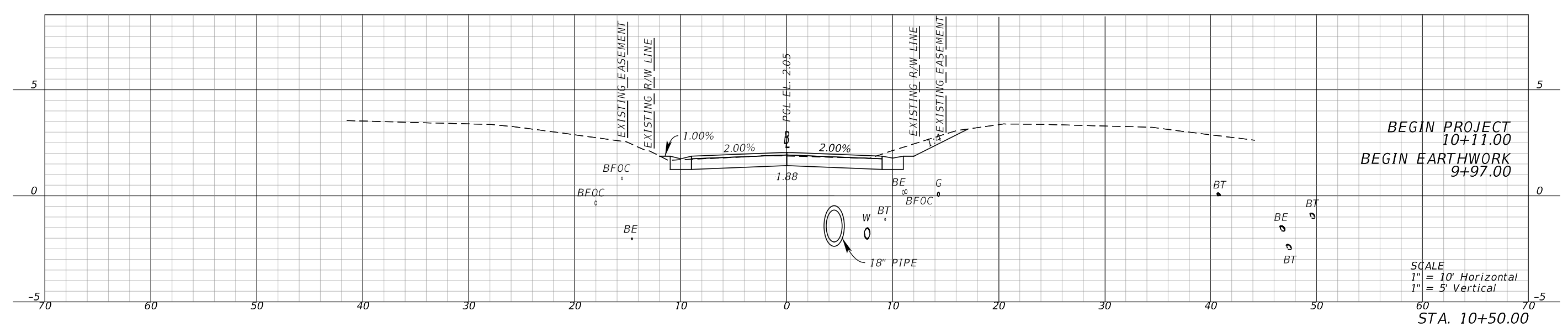
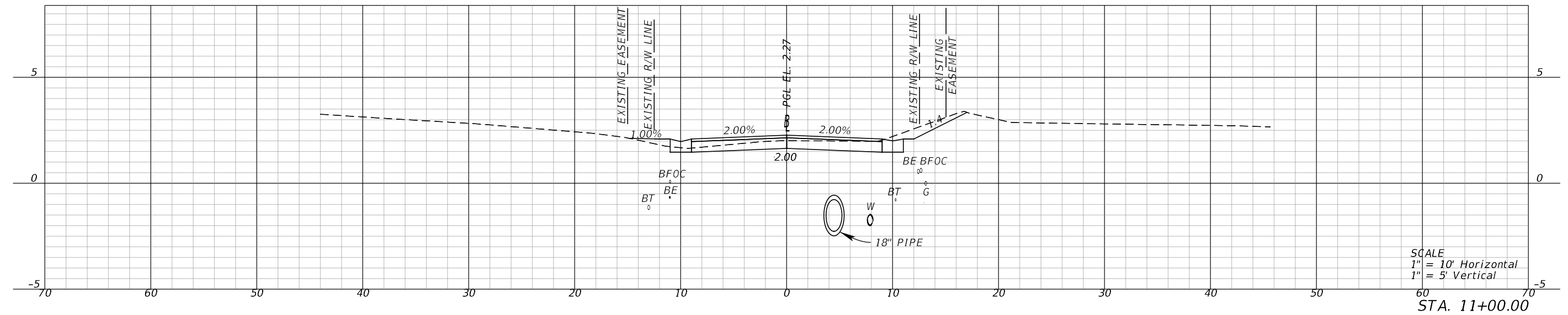
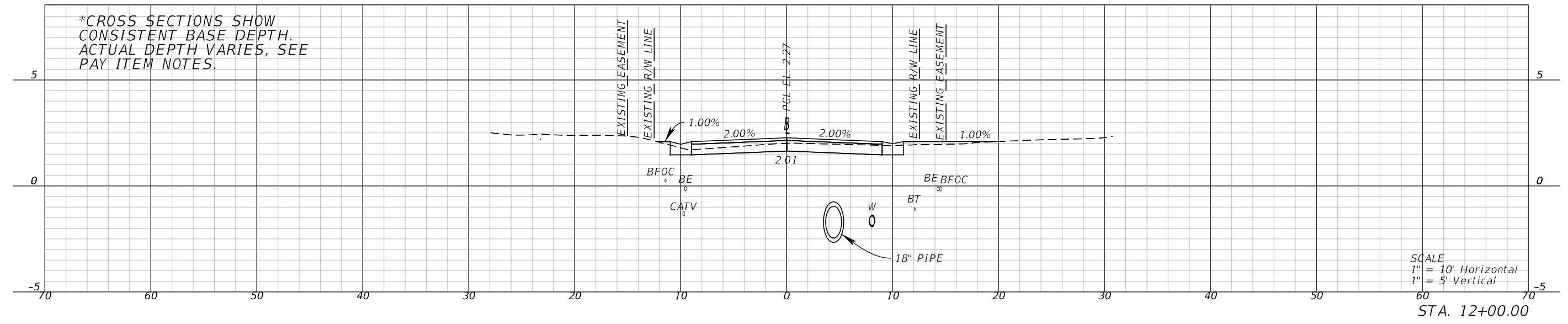


OUTFALL 2
S-206 TO S-209
STA. 23+51.73 (RT)

NOTE:

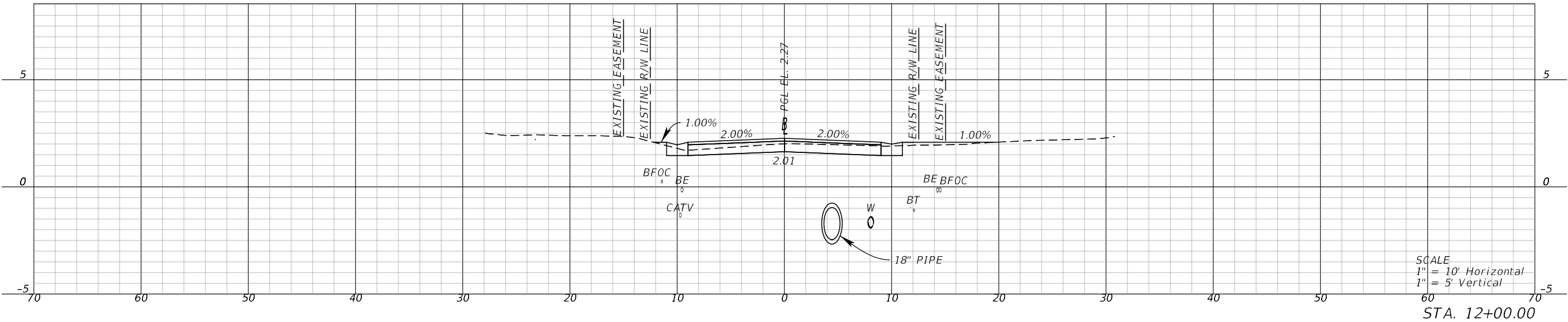
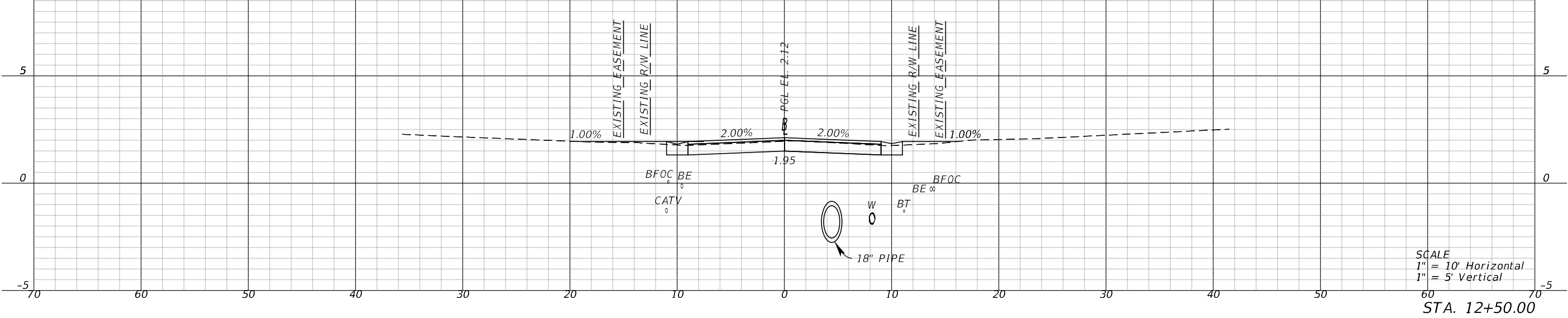
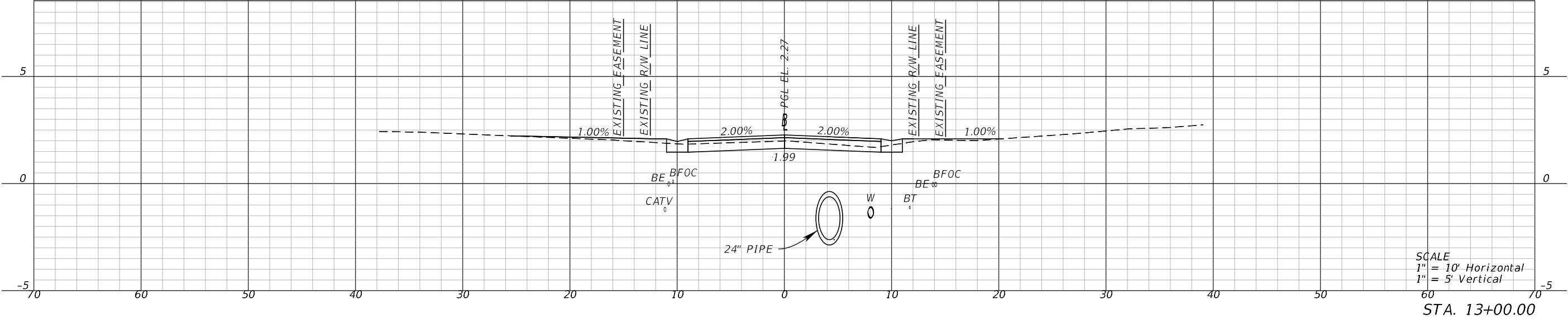
1. Outfall structures S-107 and S-209 will be constructed as headwalls in the existing sea wall. This will require no additional fill or cut at or below the MHWL. Drainage improvements will not extend past current limits of the existing seawalls.
2. Sea walls will be restored to existing elevation and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

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DATE	DESCRIPTION	DATE	DESCRIPTION				
					NORTON STREET		21



REVISIONS				Kimley»Horn	TOWN OF LONGBOAT KEY	CROSS SECTIONS	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION				
				MOLLY CHARLENE WILLIAMS, P.E. P.E. LICENSE NUMBER: 54281 1800 SECOND STREET, SUITE 900 SARASOTA, FL 34236 (941) 379-7600	NORTON STREET		22

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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

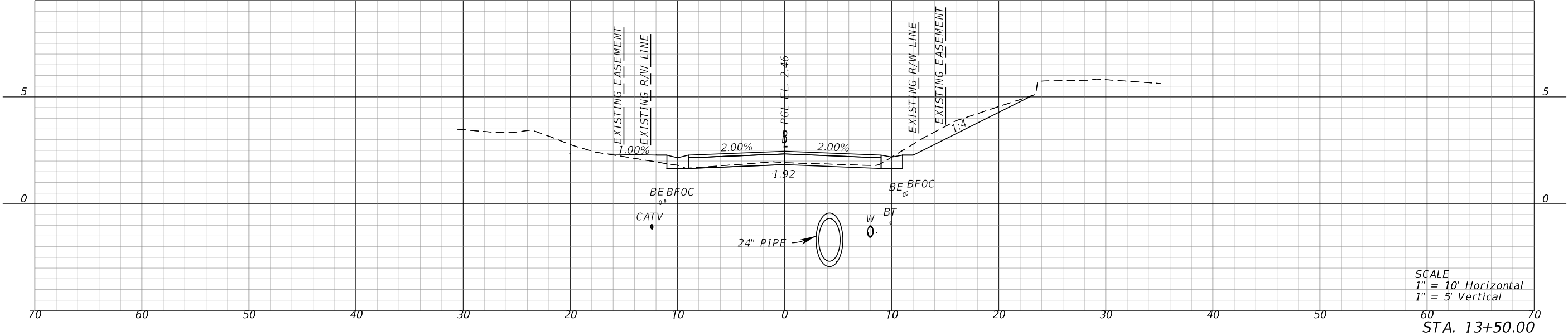
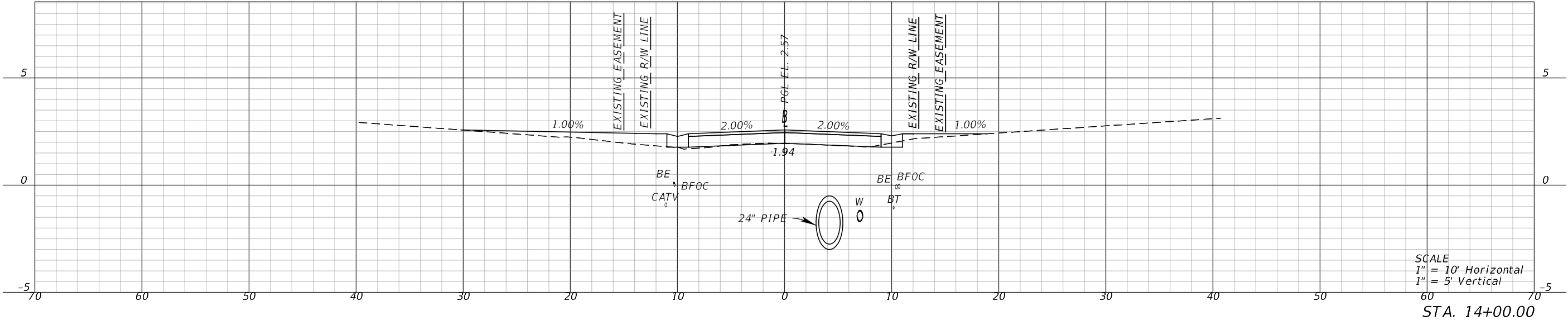
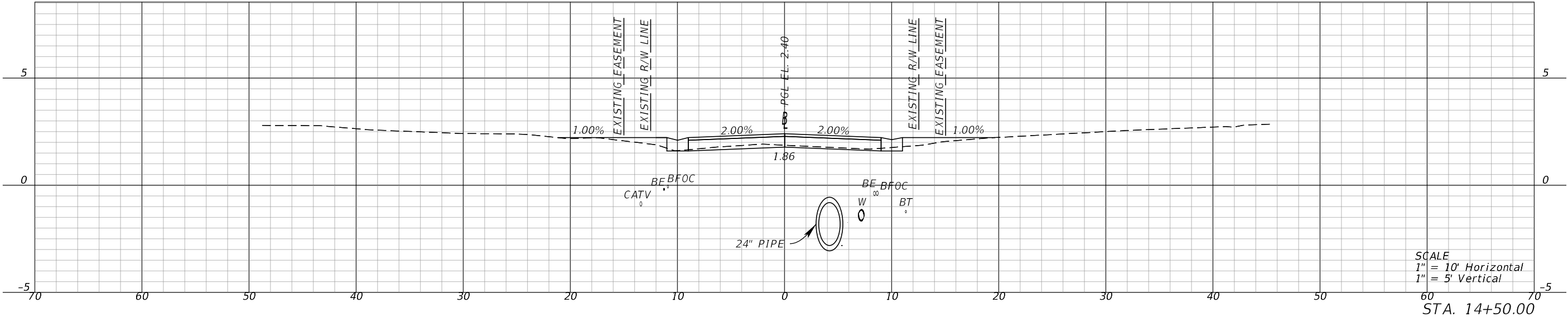
NORTON STREET

CROSS SECTIONS

23

SHEET NO.

23



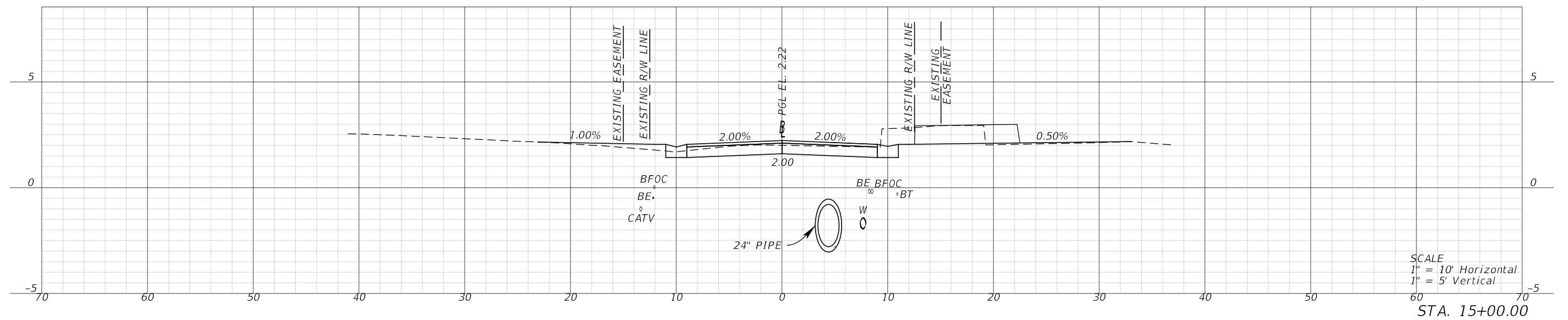
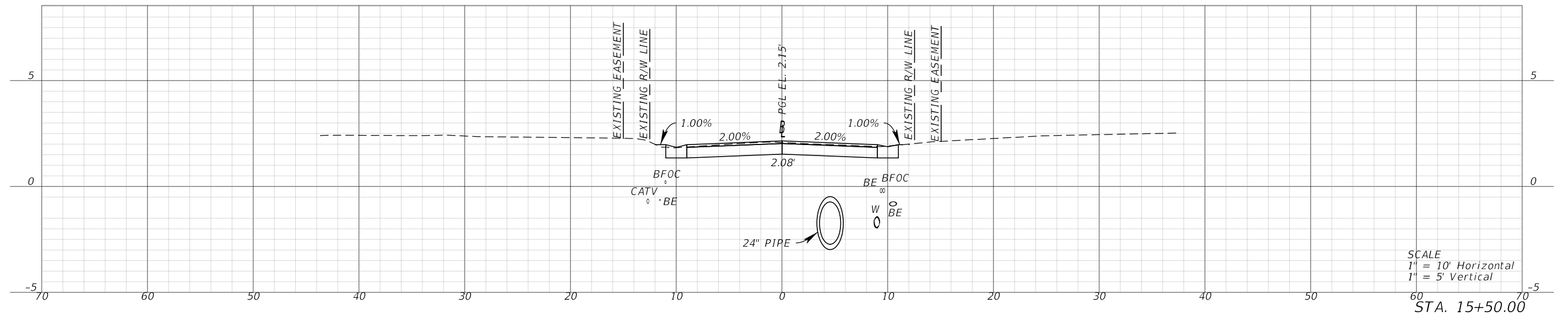
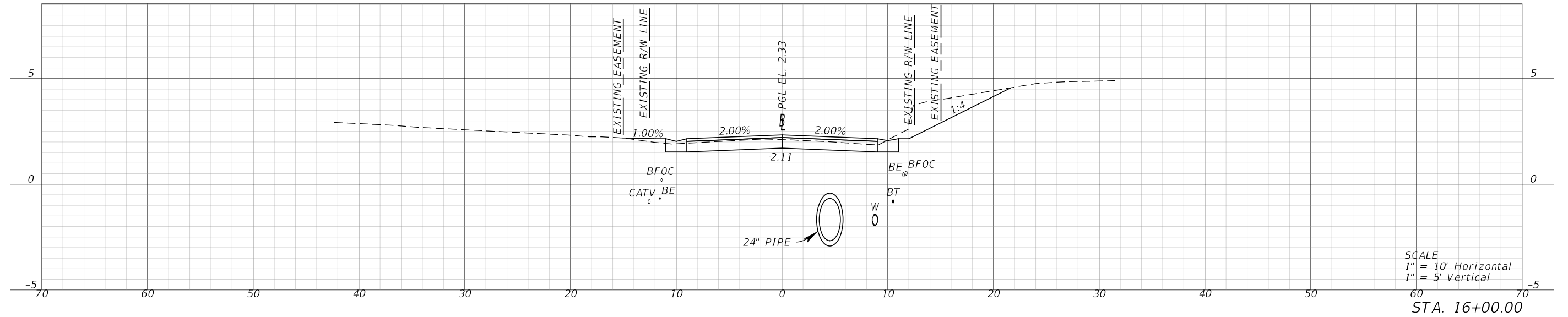
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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

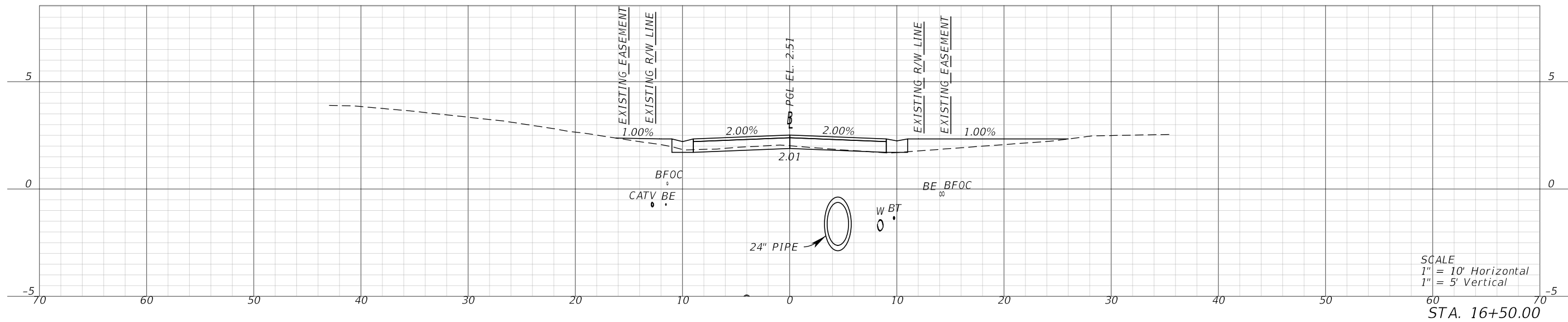
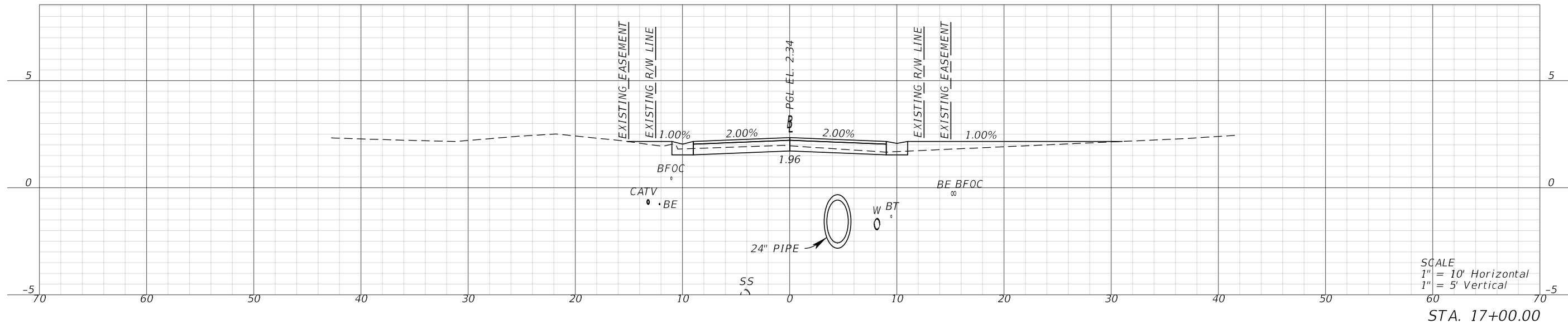
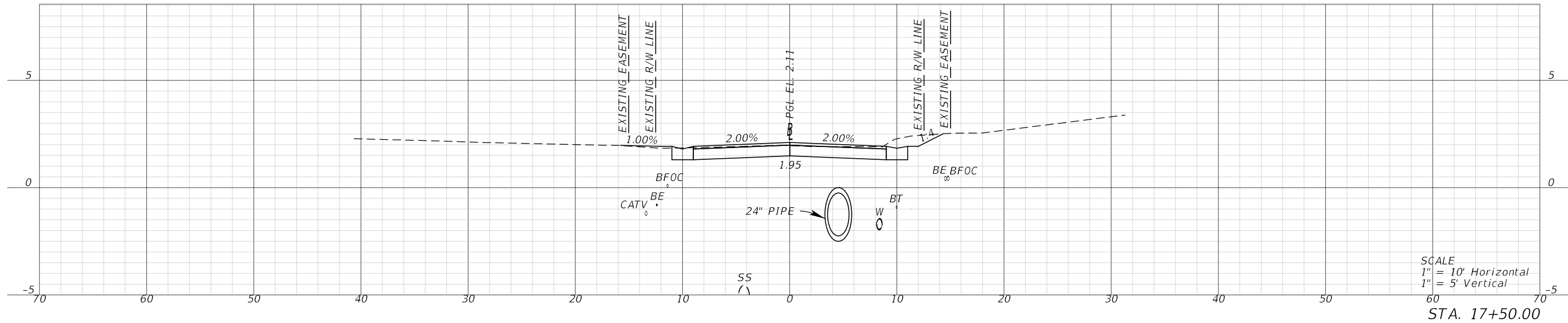
TOWN OF LONGBOAT KEY
NORTON STREET

CROSS SECTIONS
24

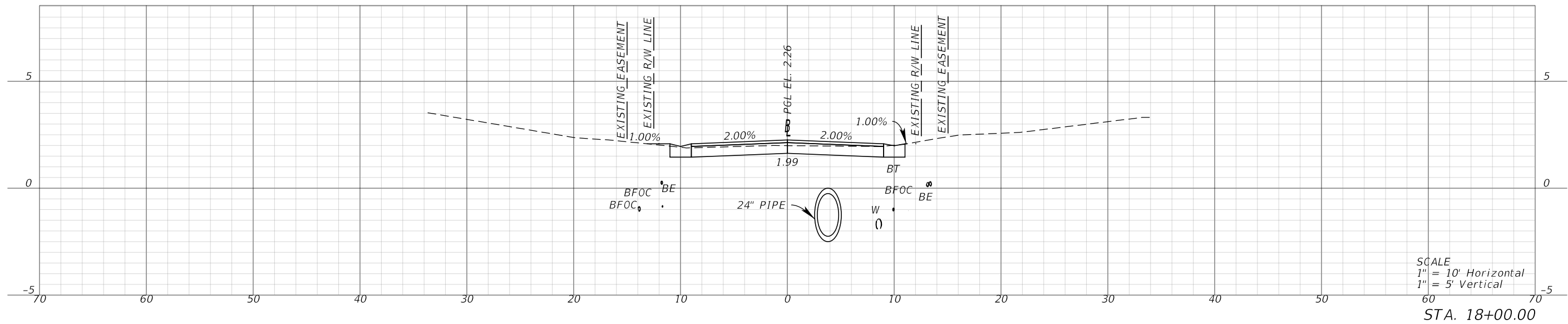
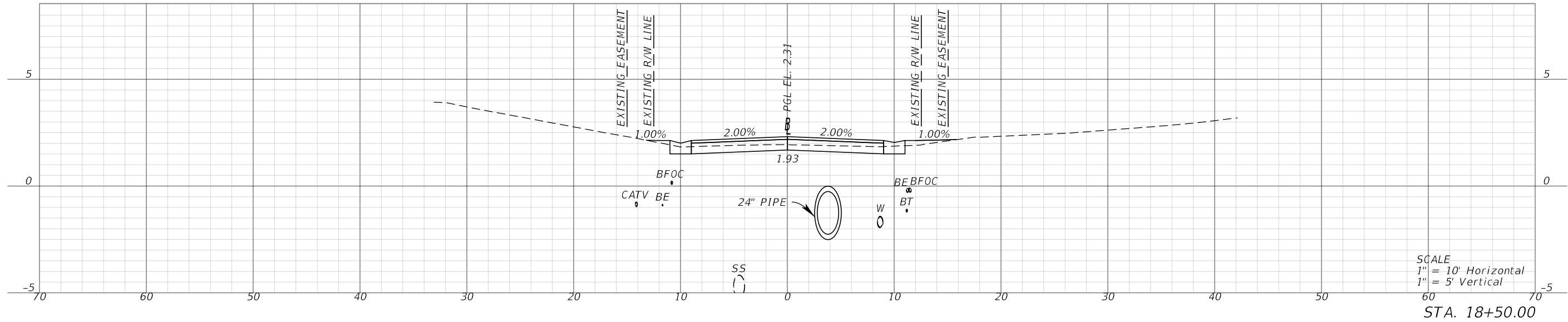
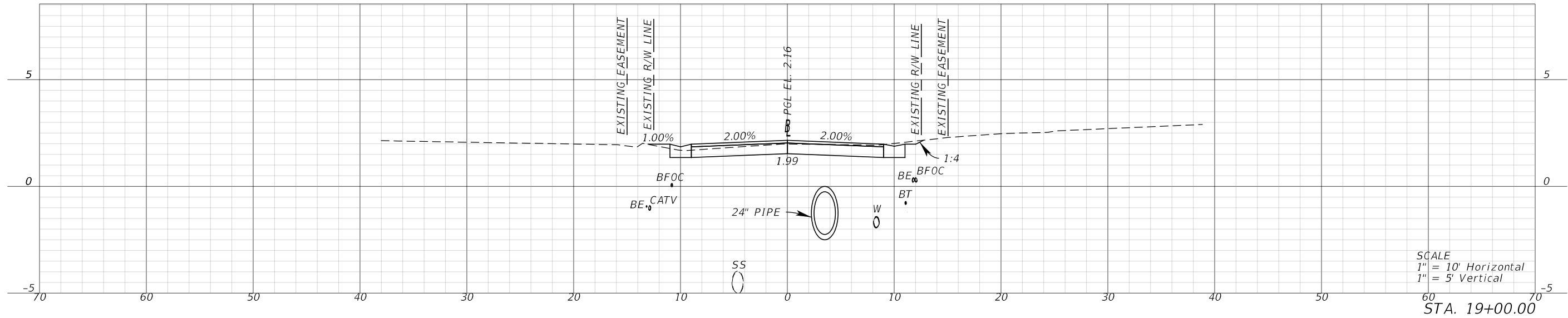
SHEET NO.
24



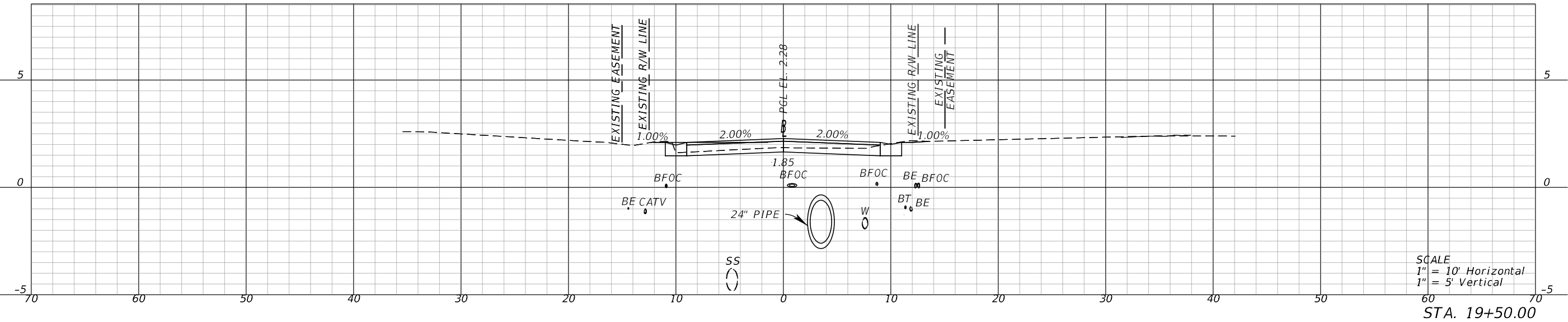
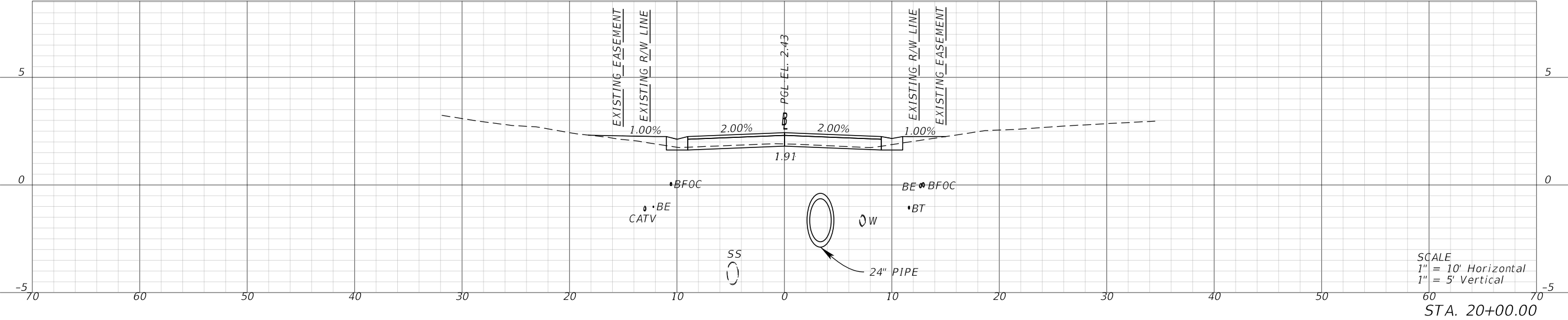
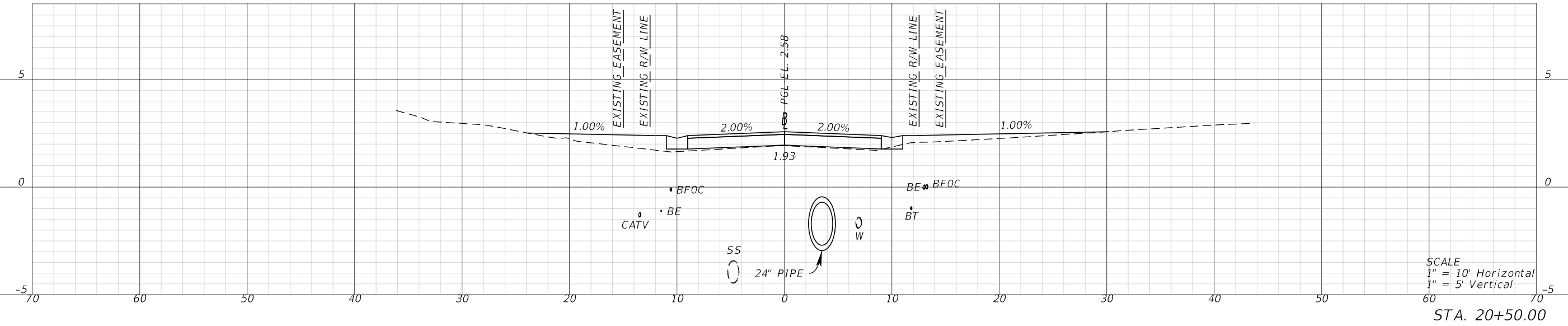
REVISIONS				<div>Kimley»Horn</div> <div> MOLLY CHARLENE WILLIAMS, P.E. P.E. LICENSE NUMBER: 54281 1800 SECOND STREET, SUITE 900 SARASOTA, FL 34236 (941) 379-7600 </div>	TOWN OF LONGBOAT KEY	CROSS SECTIONS	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION				
					NORTON STREET		25



REVISIONS				<div>Kimley»Horn</div> <div> MOLLY CHARLENE WILLIAMS, P.E. P.E. LICENSE NUMBER: 54281 1800 SECOND STREET, SUITE 900 SARASOTA, FL 34236 (941) 379-7600 </div>	TOWN OF LONGBOAT KEY	CROSS SECTIONS	SHEET NO. 26
DATE	DESCRIPTION	DATE	DESCRIPTION				
					NORTON STREET		

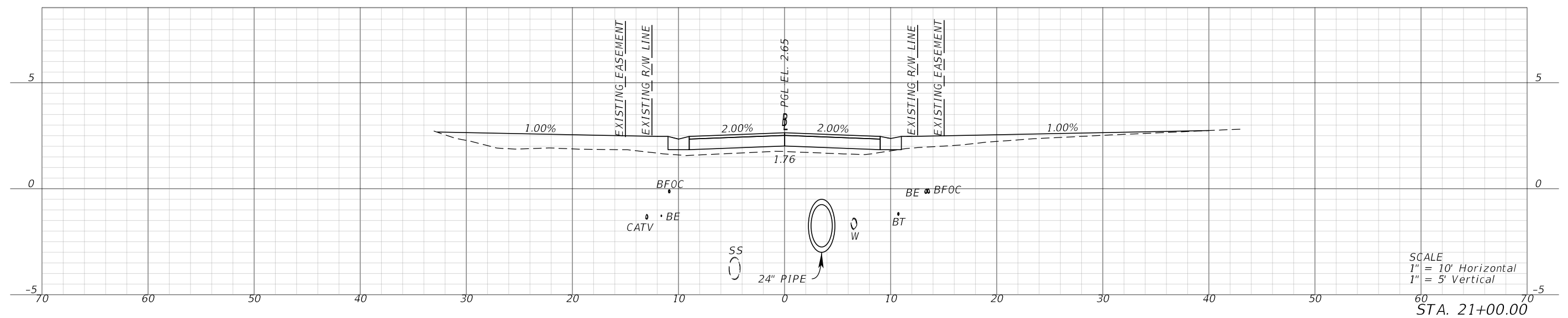
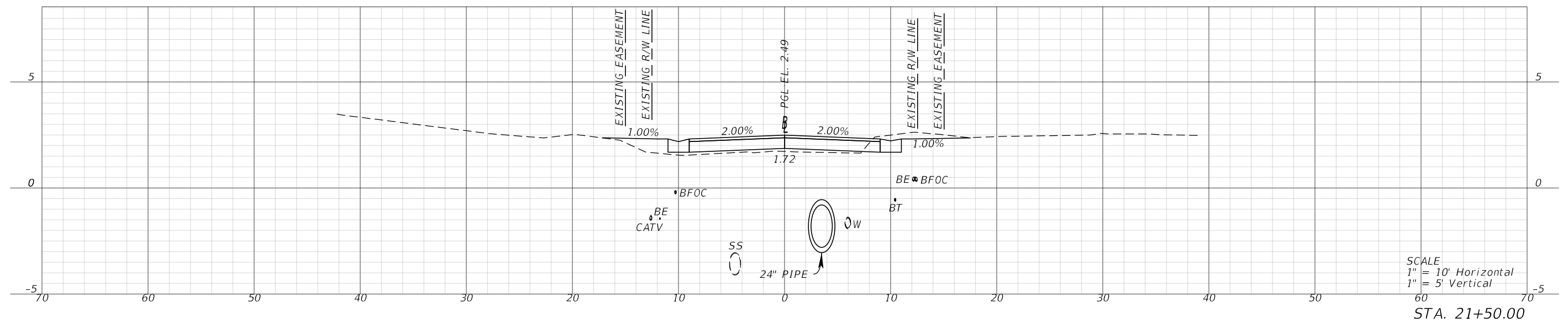
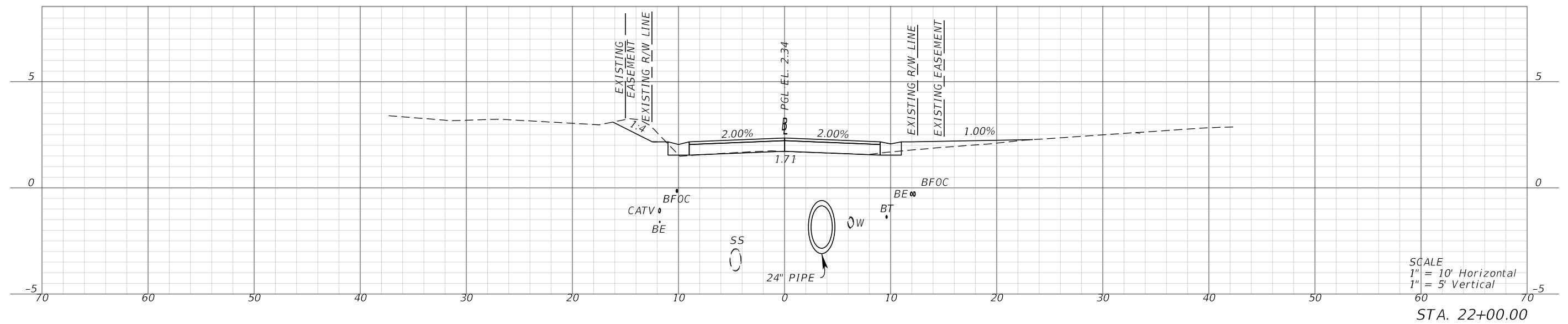


REVISIONS				Kimley»Horn	TOWN OF LONGBOAT KEY	CROSS SECTIONS	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION				
				MOLLY CHARLENE WILLIAMS, P.E. P.E. LICENSE NUMBER: 54281 1800 SECOND STREET, SUITE 900 SARASOTA, FL 34236 (941) 379-7600	NORTON STREET		27



REVISIONS				Kimley»Horn	TOWN OF LONGBOAT KEY	CROSS SECTIONS	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION				
				MOLLY CHARLENE WILLIAMS, P.E. P.E. LICENSE NUMBER: 54281 1800 SECOND STREET, SUITE 900 SARASOTA, FL 34236 (941) 379-7600	NORTON STREET		28

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

TOWN OF LONGBOAT KEY

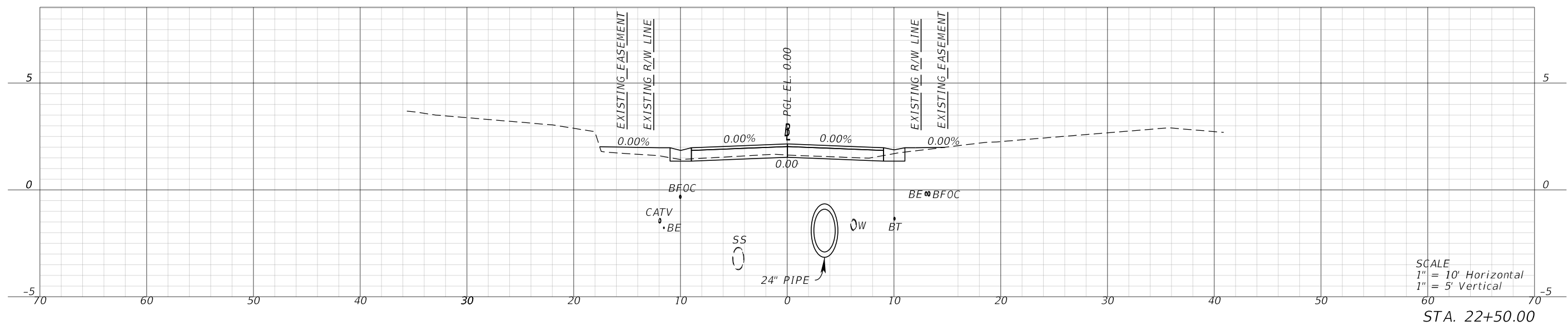
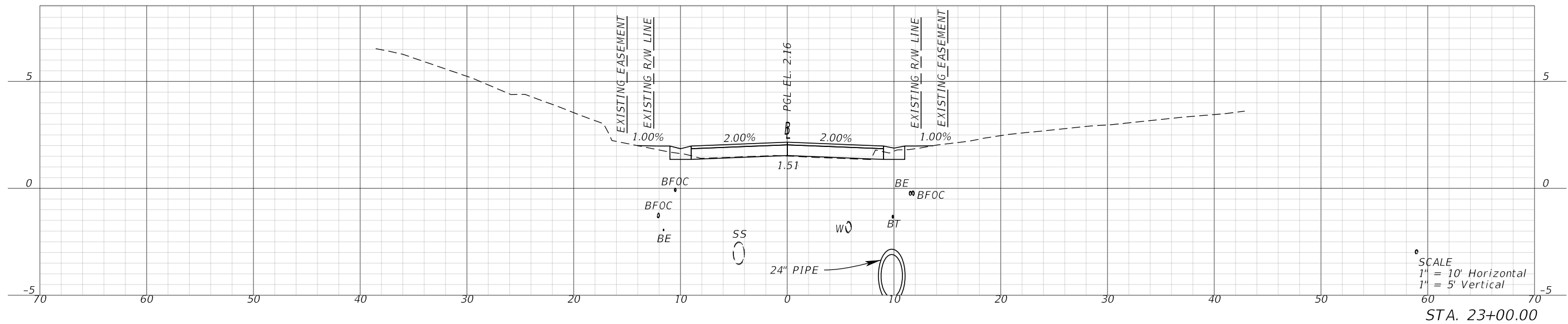
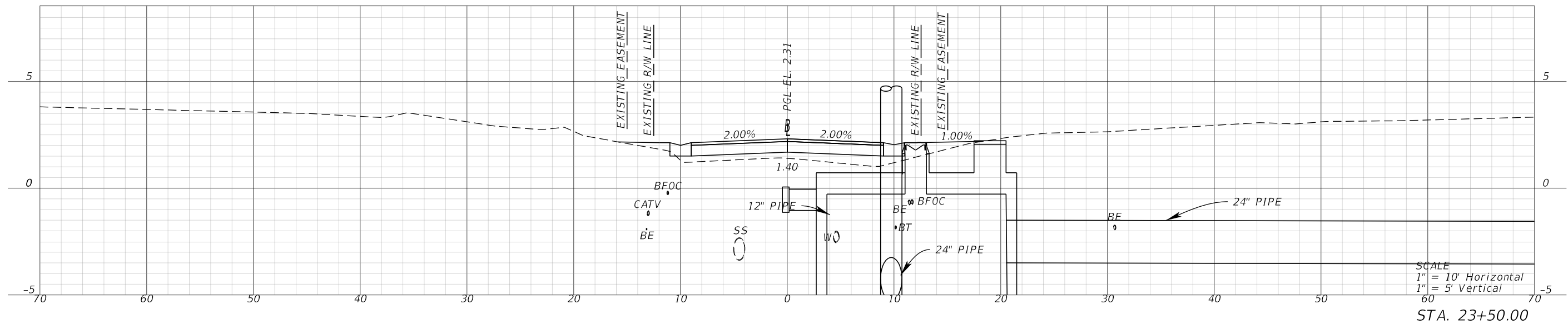
NORTON STREET

CROSS SECTIONS

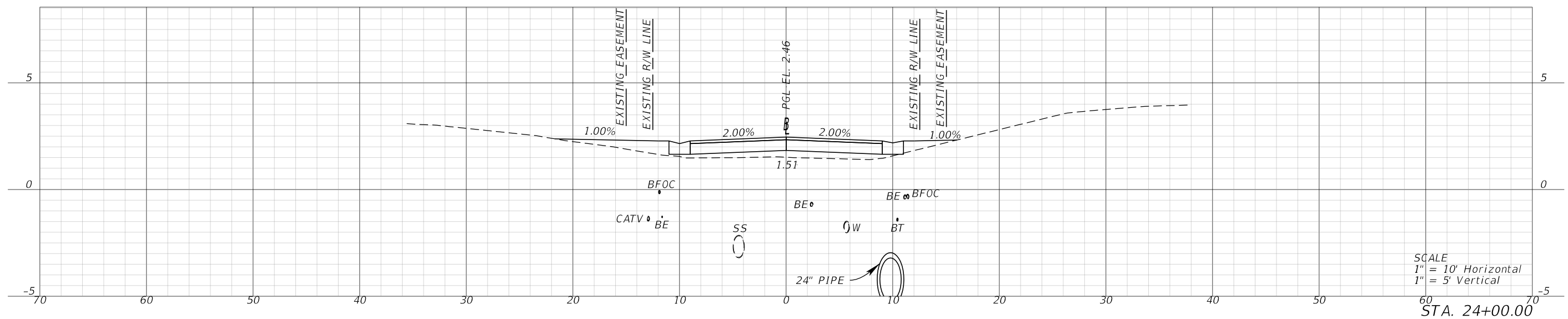
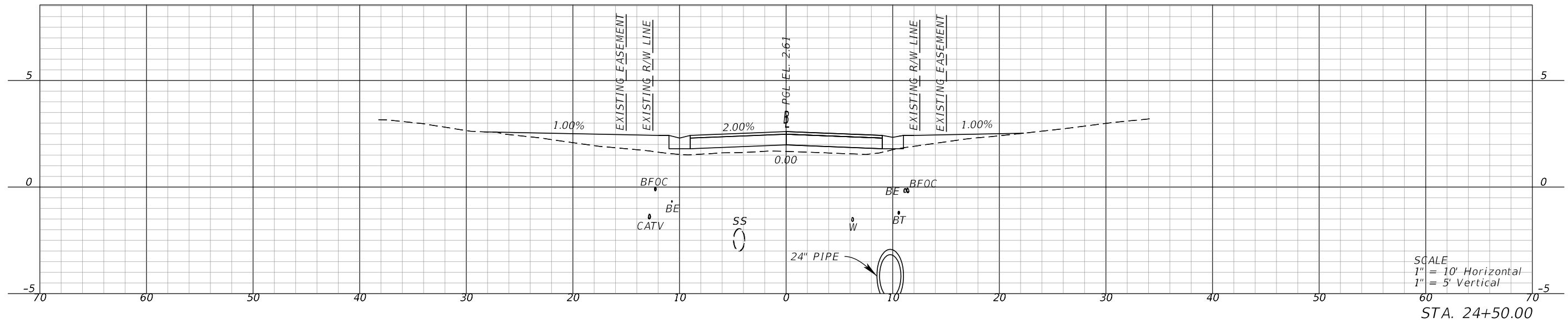
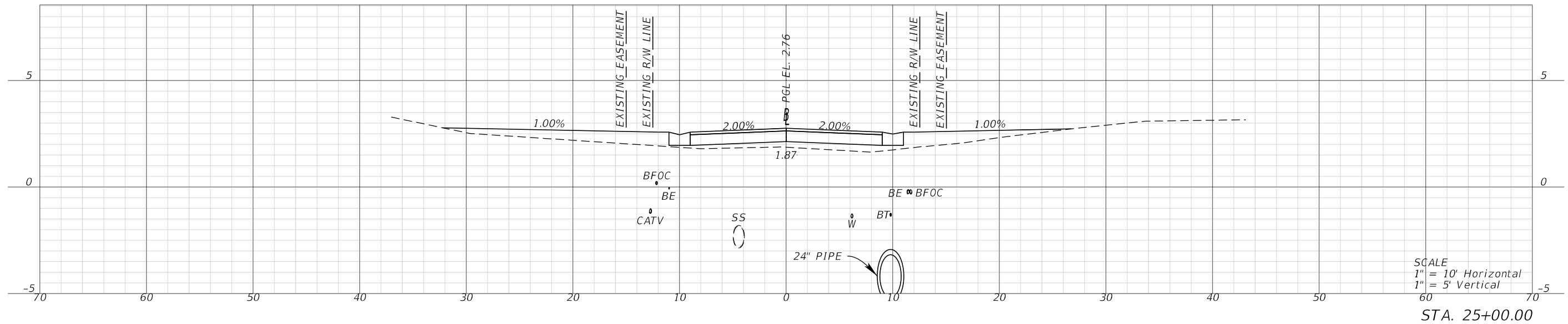
SHEET
NO.

29

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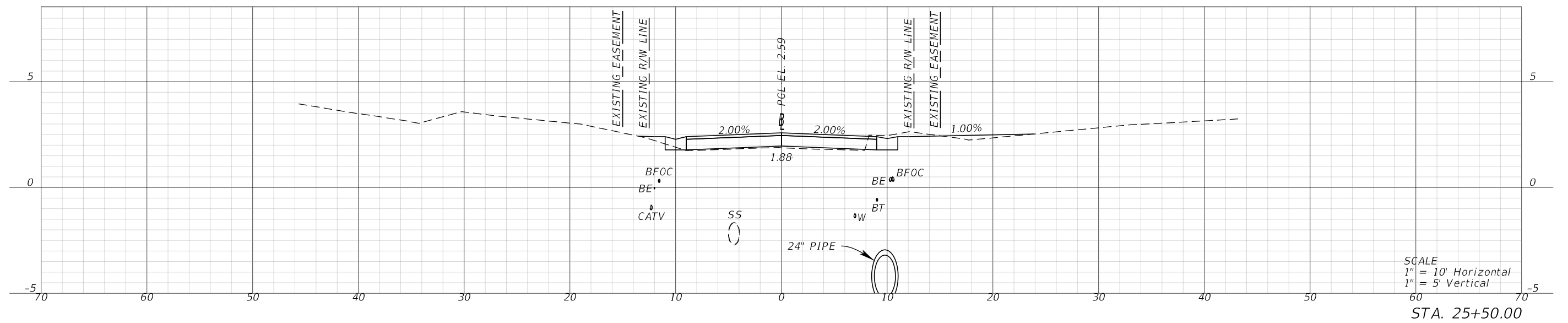
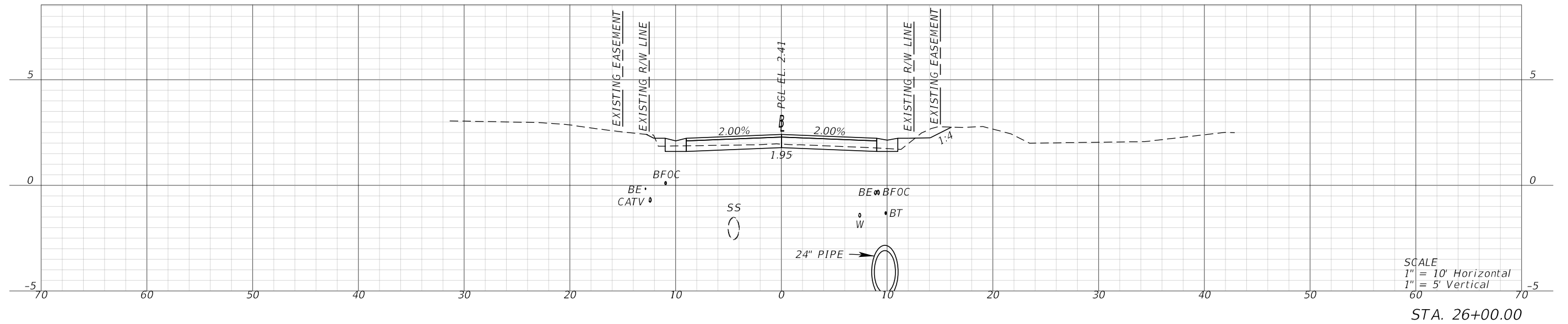
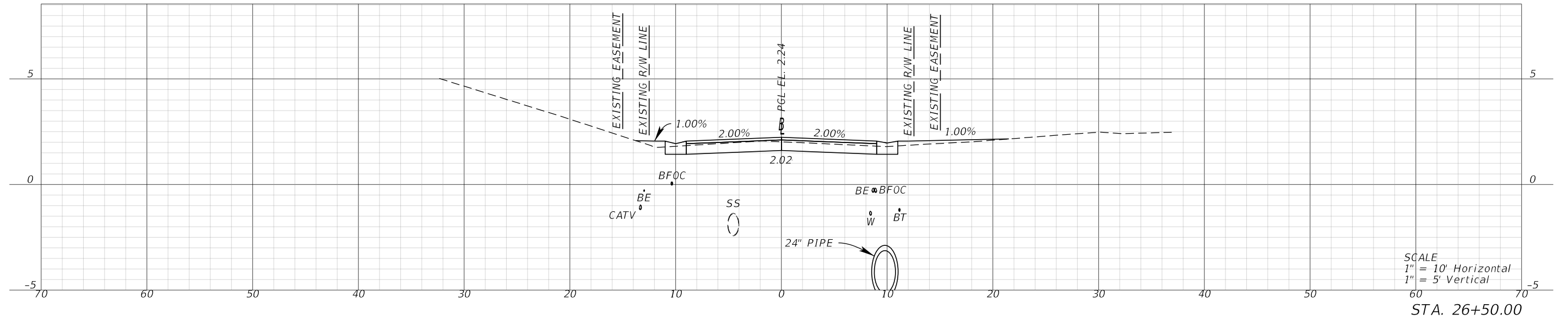


REVISIONS				<div> <div>Kimley»Horn</div> <div> MOLLY CHARLENE WILLIAMS, P.E. P.E. LICENSE NUMBER: 54281 1800 SECOND STREET, SUITE 900 SARASOTA, FL 34236 (941) 379-7600 </div> </div>	TOWN OF LONGBOAT KEY	CROSS SECTIONS	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION				
					NORTON STREET		30

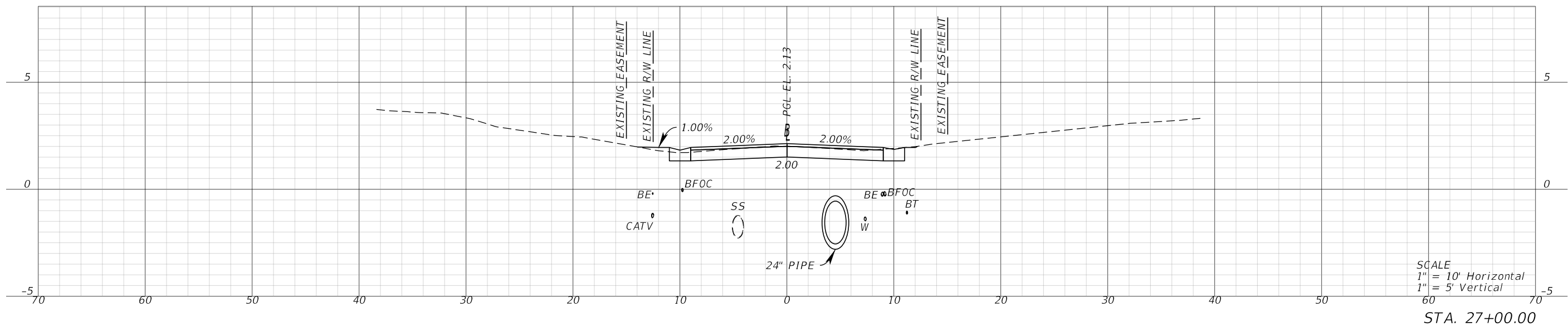
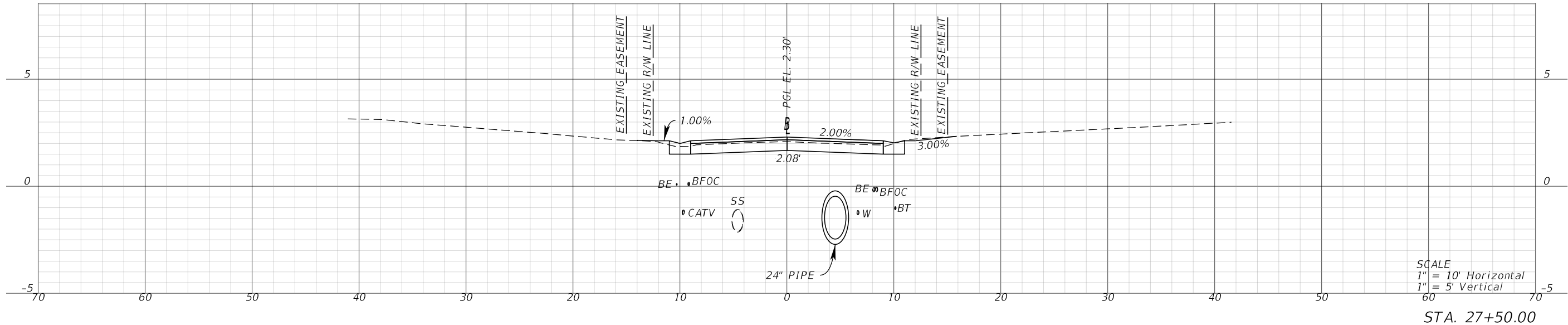
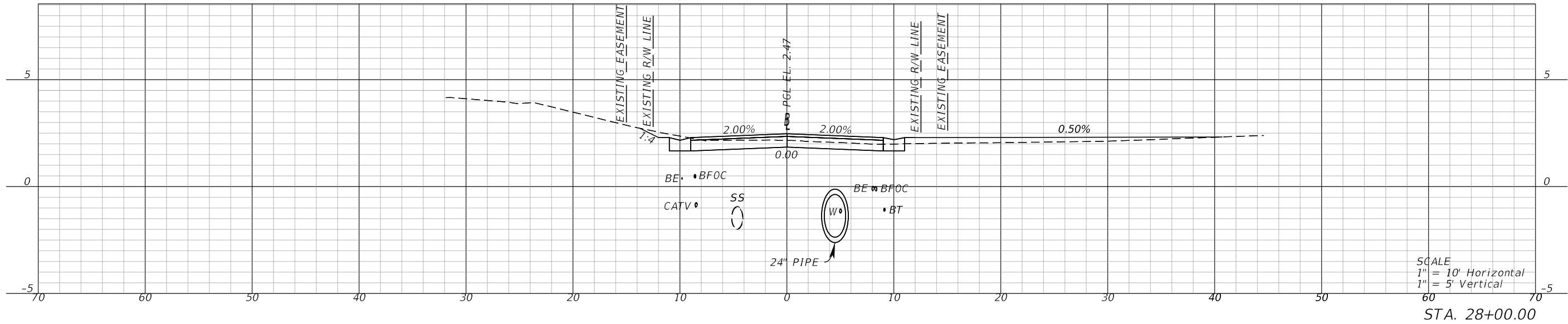


REVISIONS				Kimley»Horn	TOWN OF LONGBOAT KEY	CROSS SECTIONS	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION				
				MOLLY CHARLENE WILLIAMS, P.E. P.E. LICENSE NUMBER: 54281 1800 SECOND STREET, SUITE 900 SARASOTA, FL 34236 (941) 379-7600	NORTON STREET		31

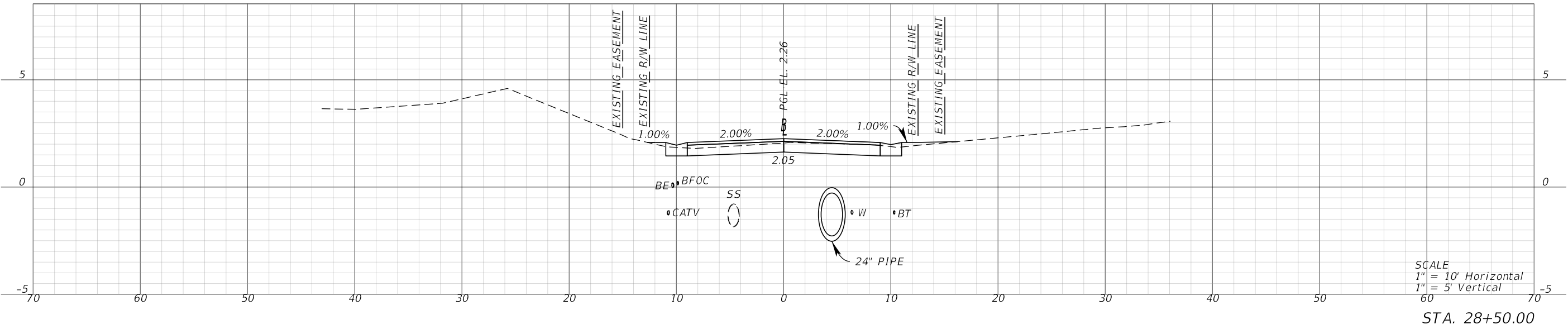
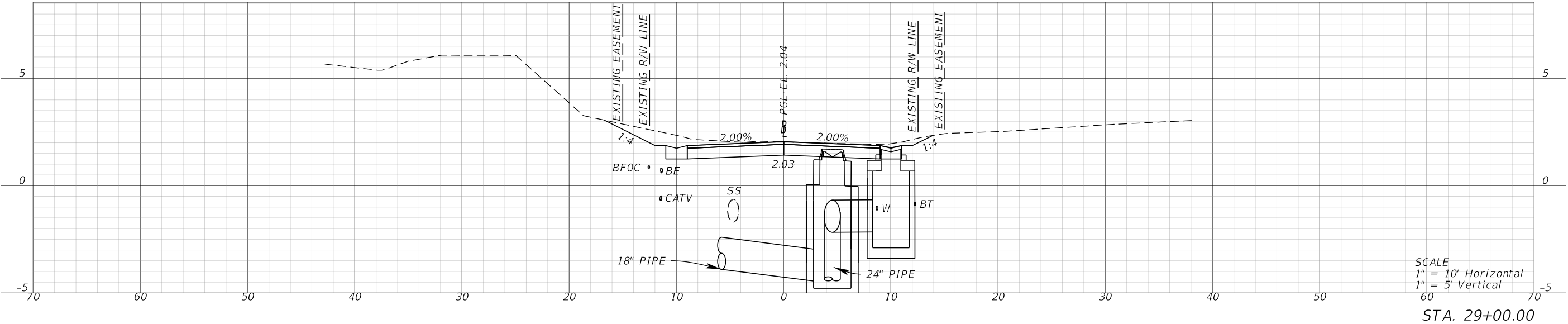
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DATE	DESCRIPTION	DATE	DESCRIPTION				
				MOLLY CHARLENE WILLIAMS, P.E. P.E. LICENSE NUMBER: 54281 1800 SECOND STREET, SUITE 900 SARASOTA, FL 34236 (941) 379-7600	NORTON STREET		32



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DATE	DESCRIPTION	DATE	DESCRIPTION				
					NORTON STREET		



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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

TOWN OF LONGBOAT KEY

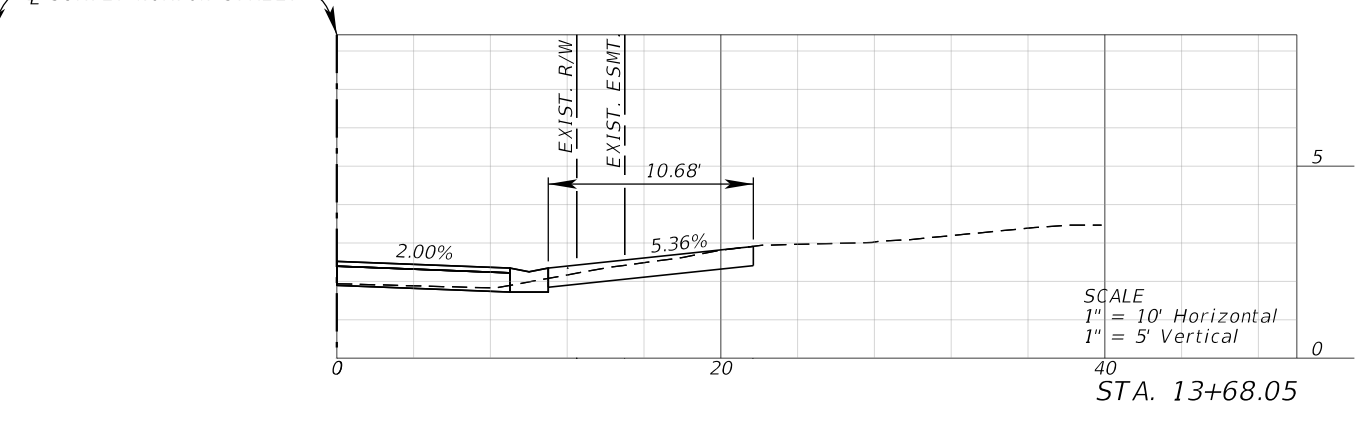
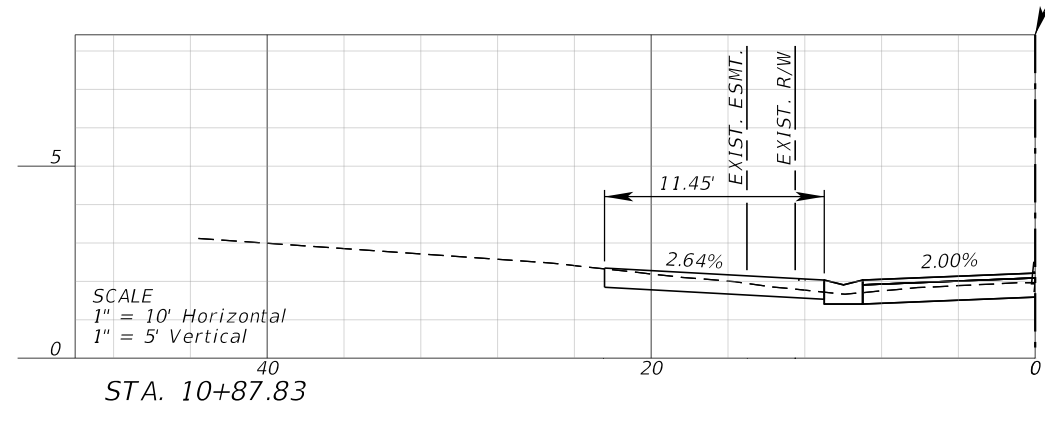
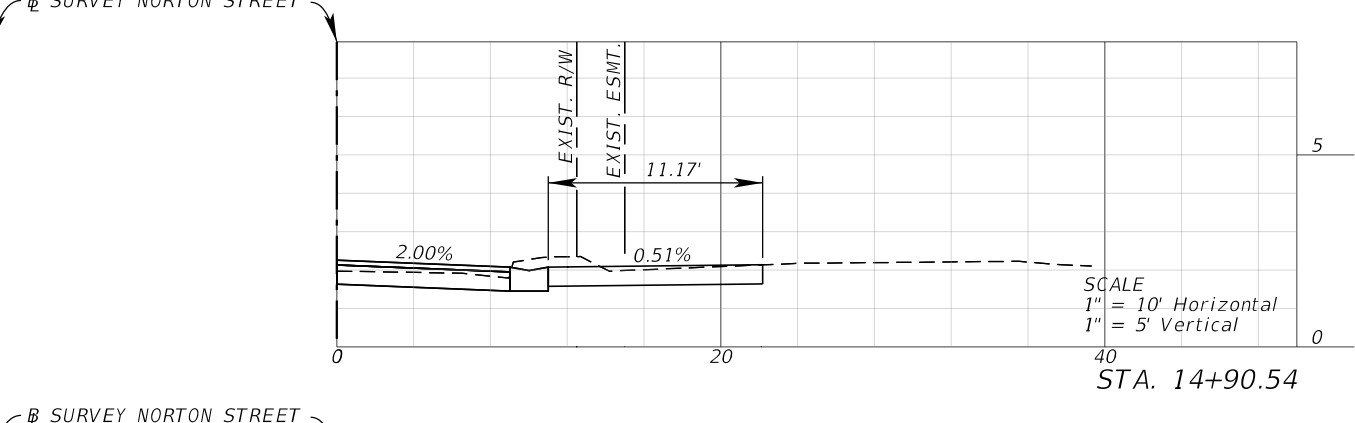
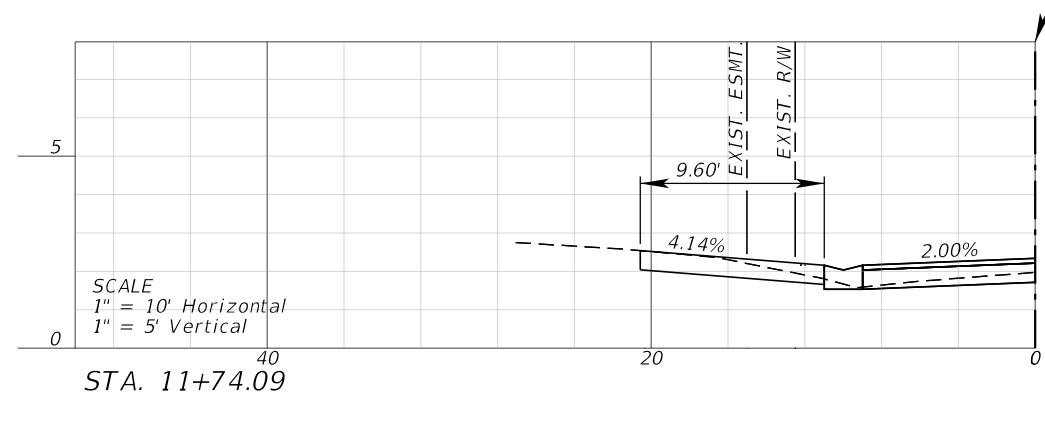
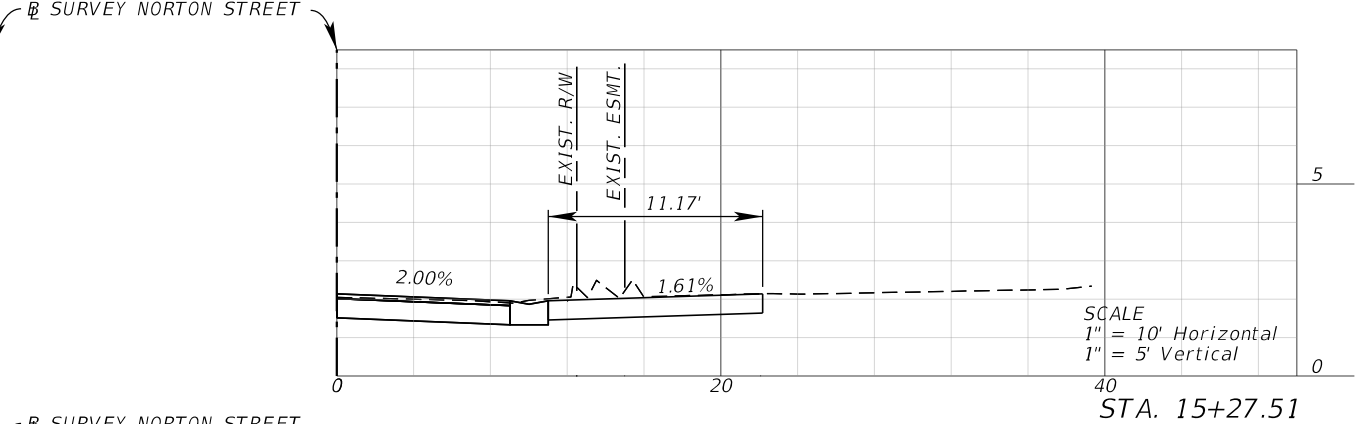
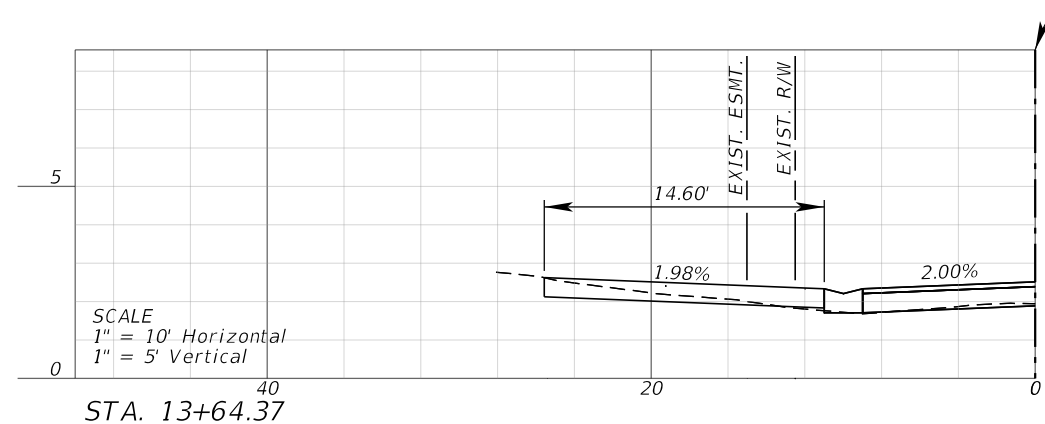
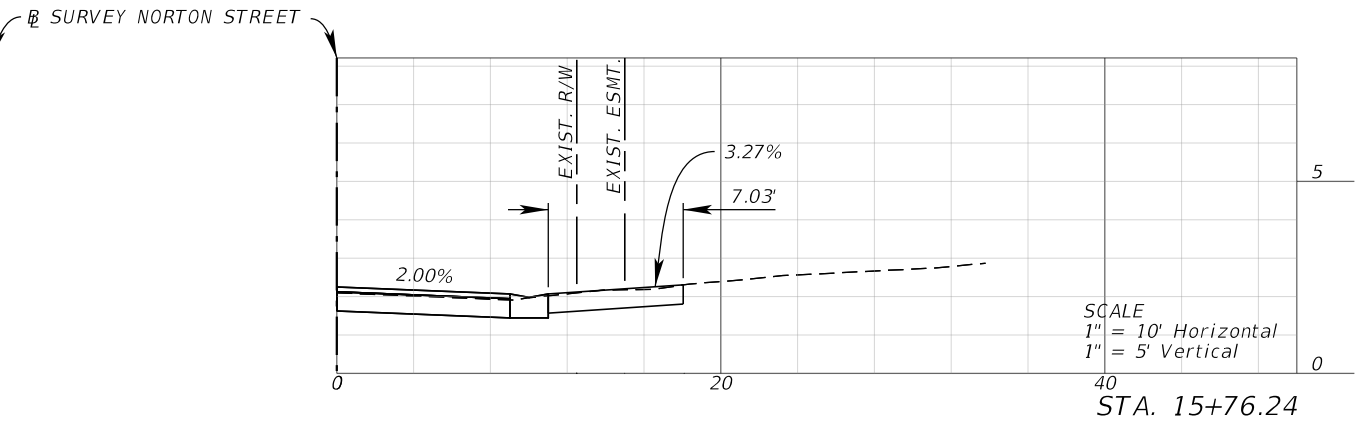
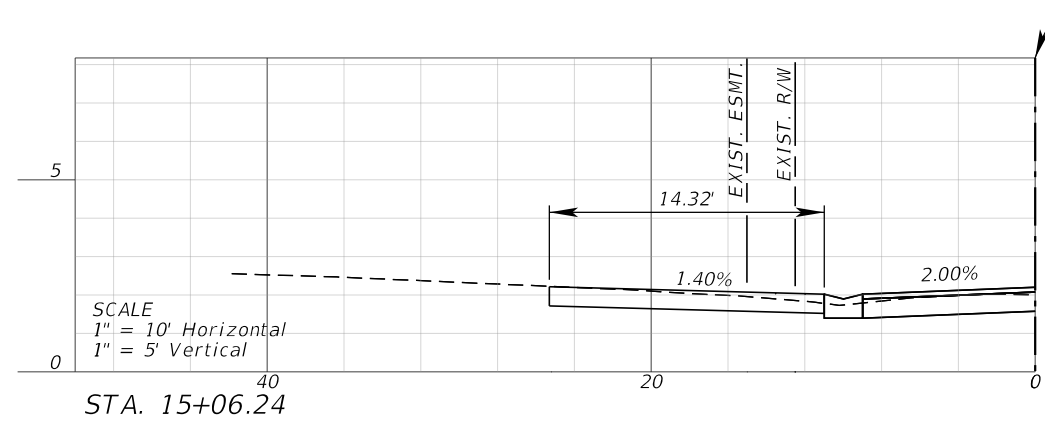
NORTON STREET

CROSS SECTIONS

SHEET NO.

34

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(941) 379-7600

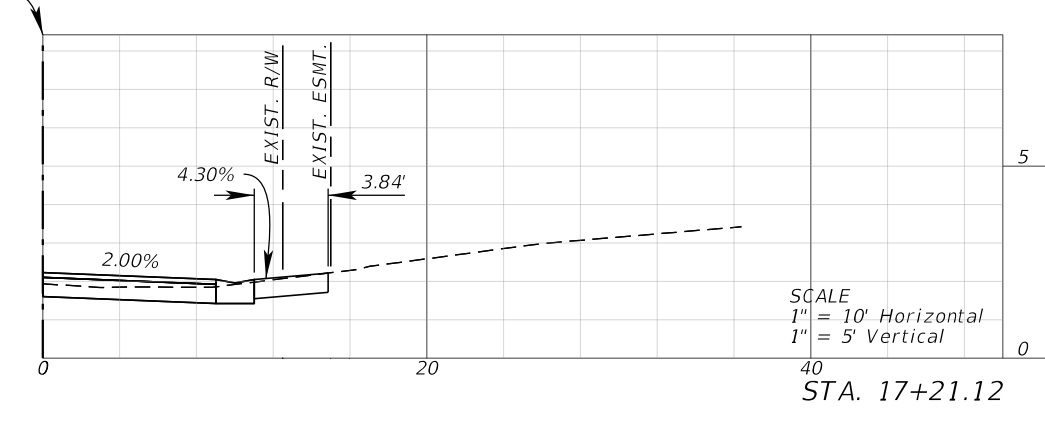
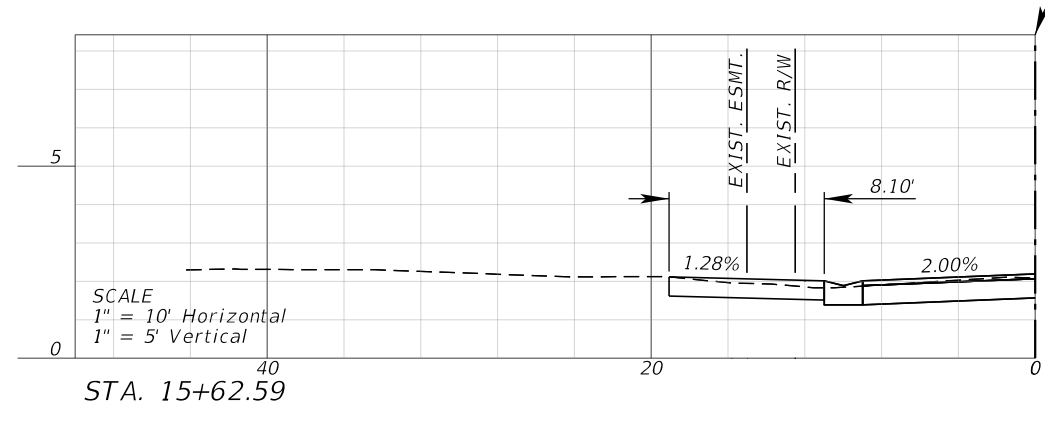
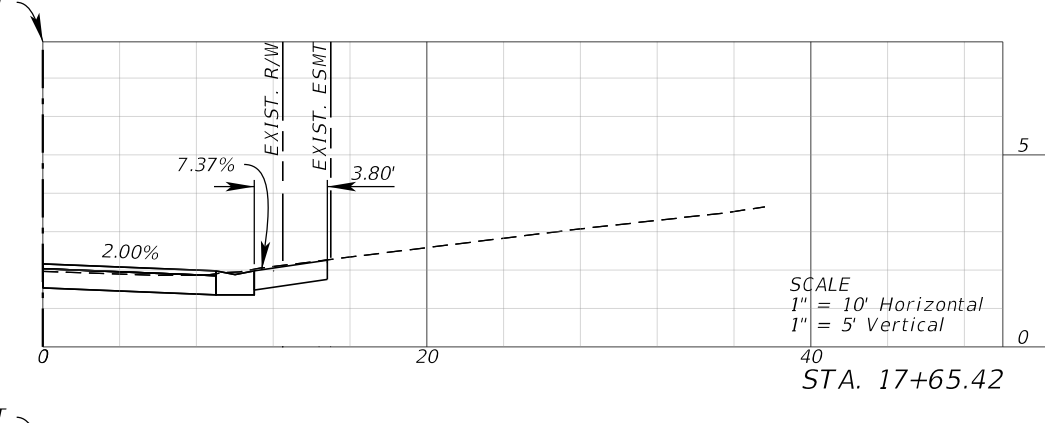
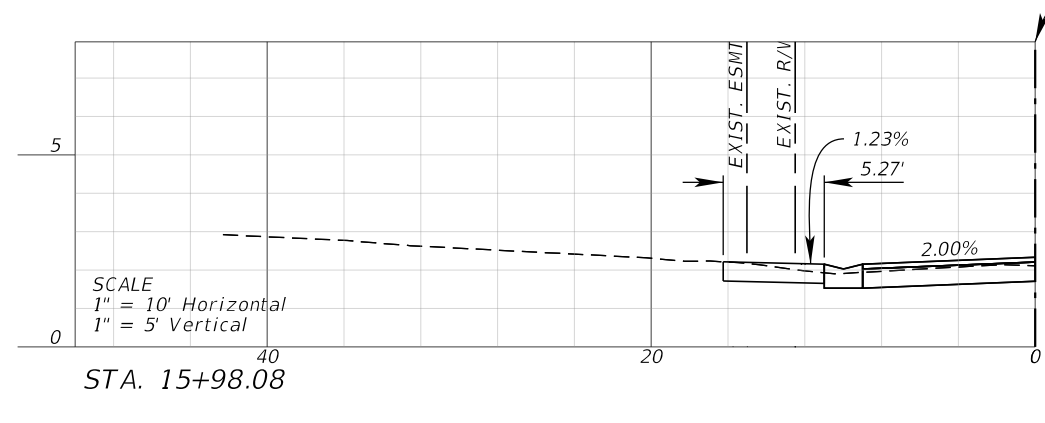
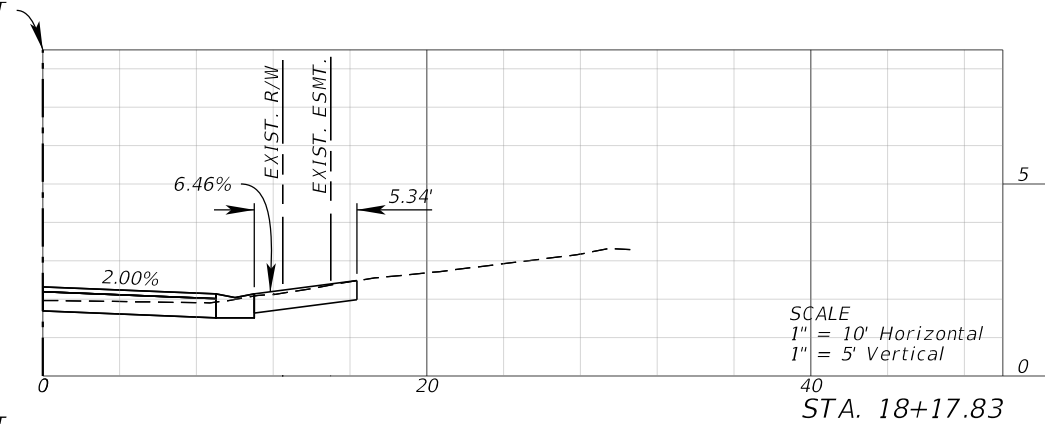
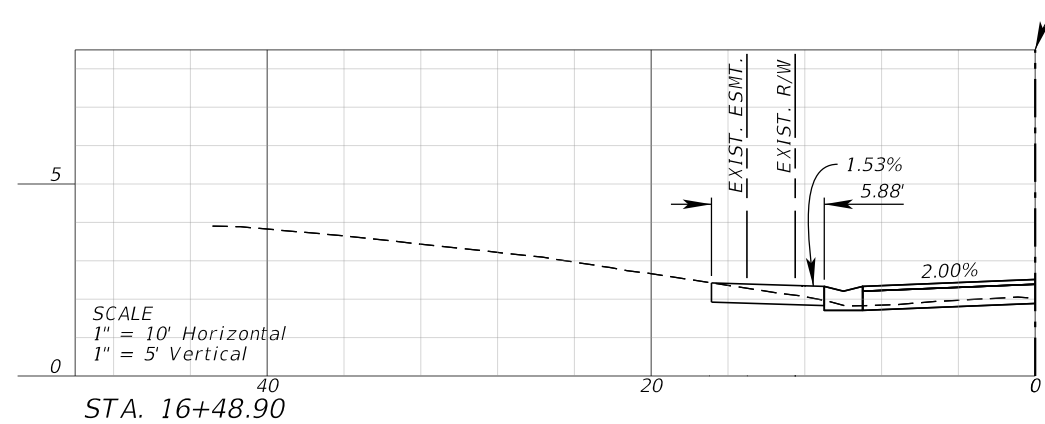
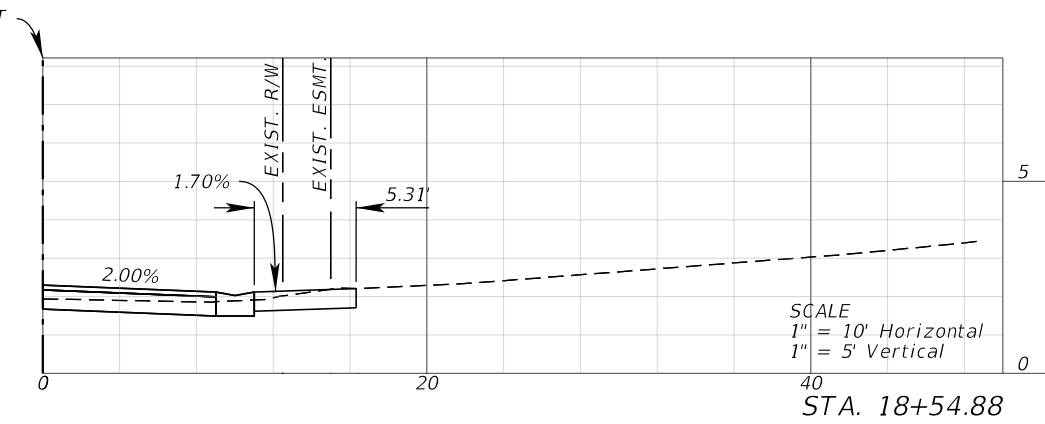
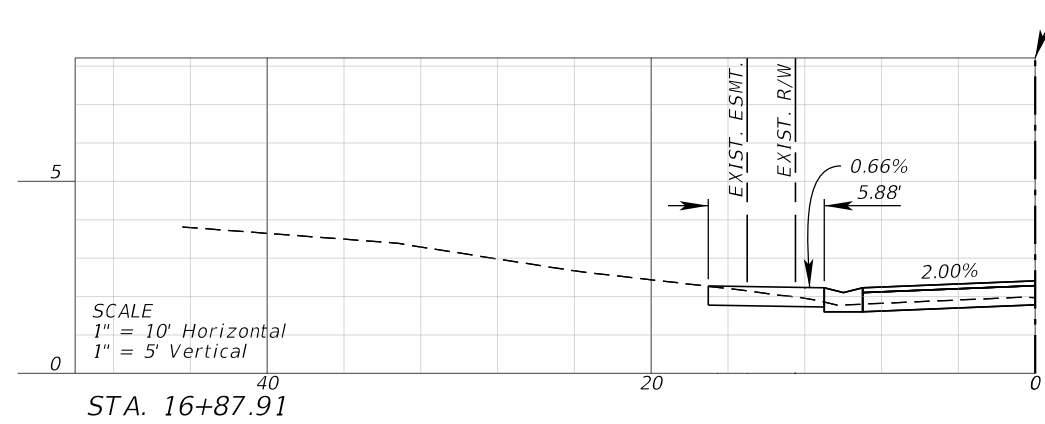
TOWN OF LONGBOAT KEY

NORTON STREET

DRIVEWAY HALF SECTIONS

SHEET NO.
35

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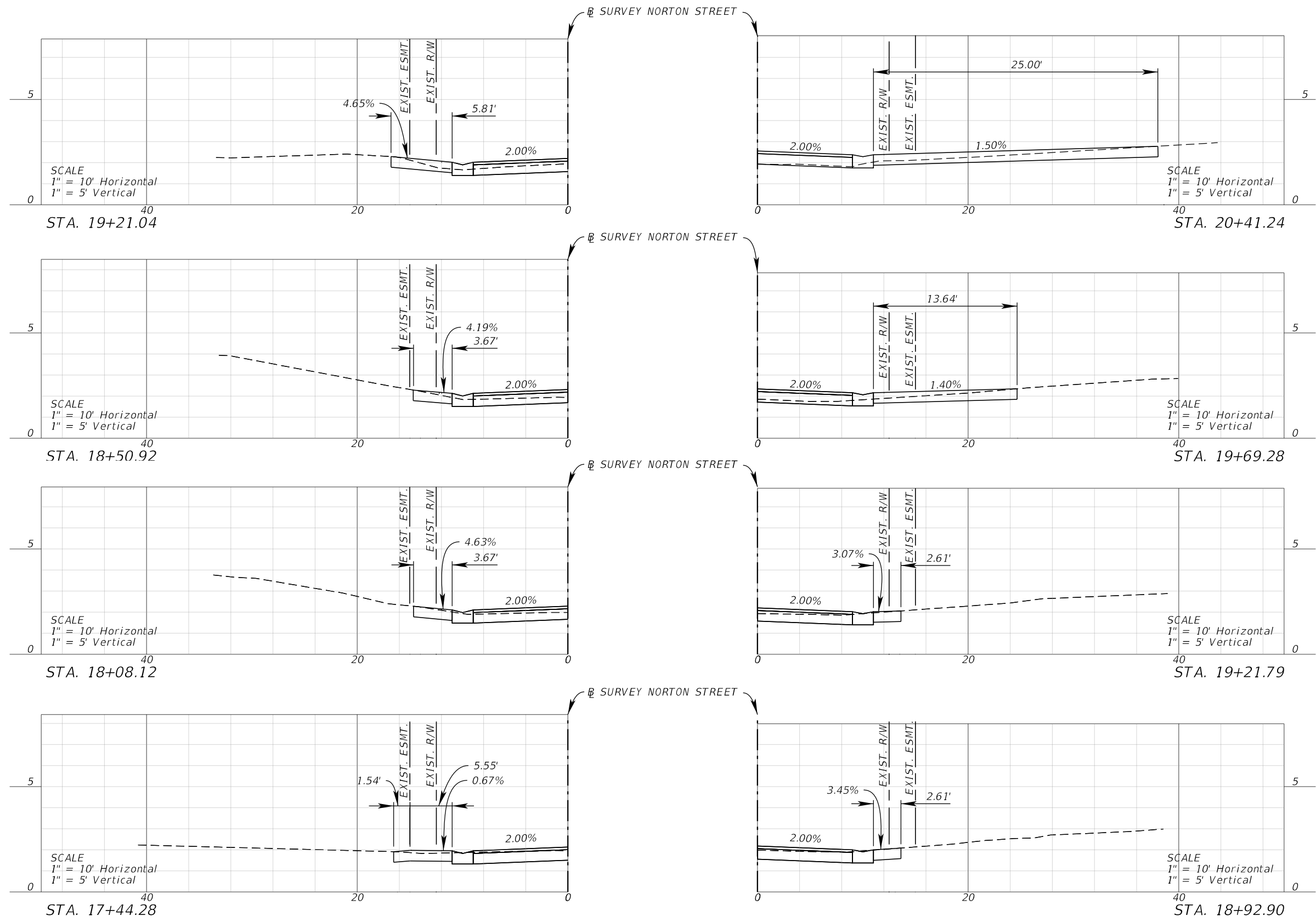
Kimley»Horn
 MOLLY CHARLENE WILLIAMS, P.E.
 P.E. LICENSE NUMBER: 54281
 1800 SECOND STREET, SUITE 900
 SARASOTA, FL 34236
 (941) 379-7600

TOWN OF LONGBOAT KEY
 NORTON STREET

DRIVEWAY HALF SECTIONS
 36

SHEET NO.
 36

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DATE	DESCRIPTION	DATE	DESCRIPTION

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

TOWN OF LONGBOAT KEY

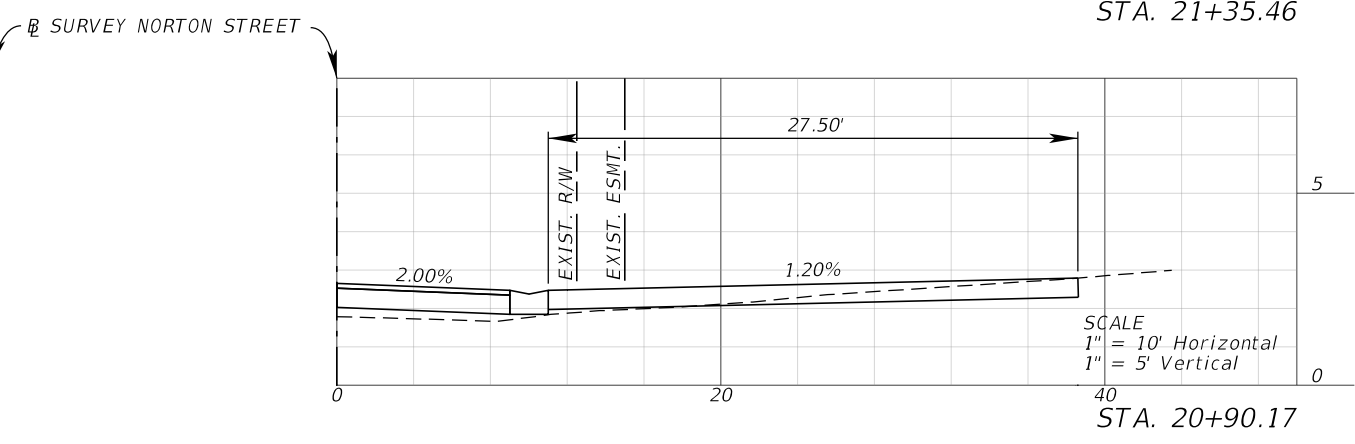
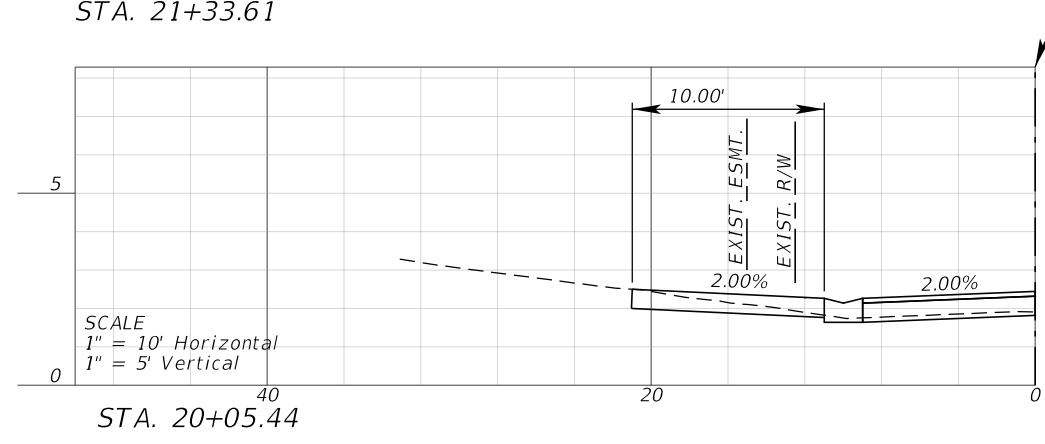
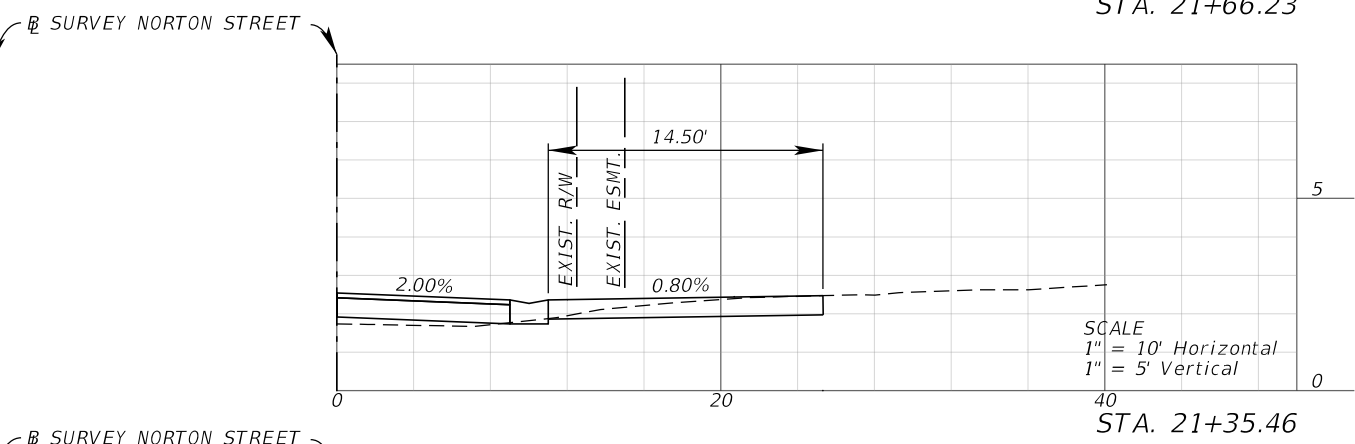
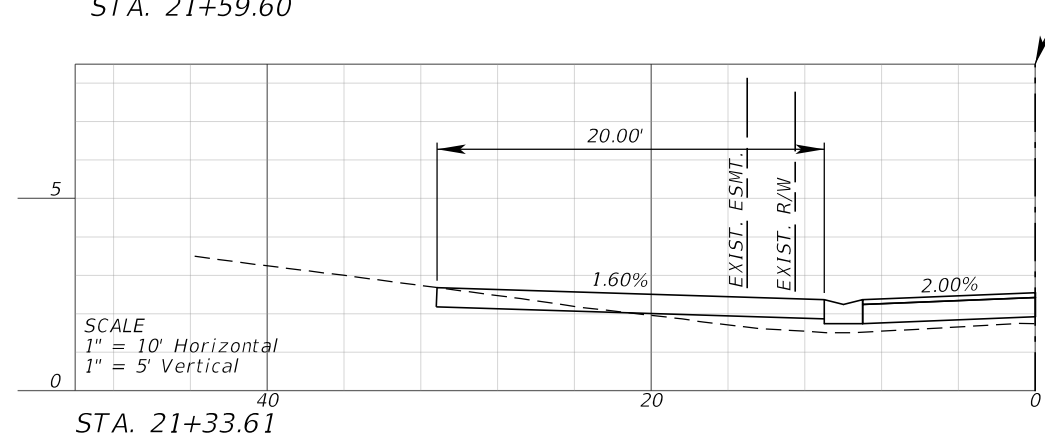
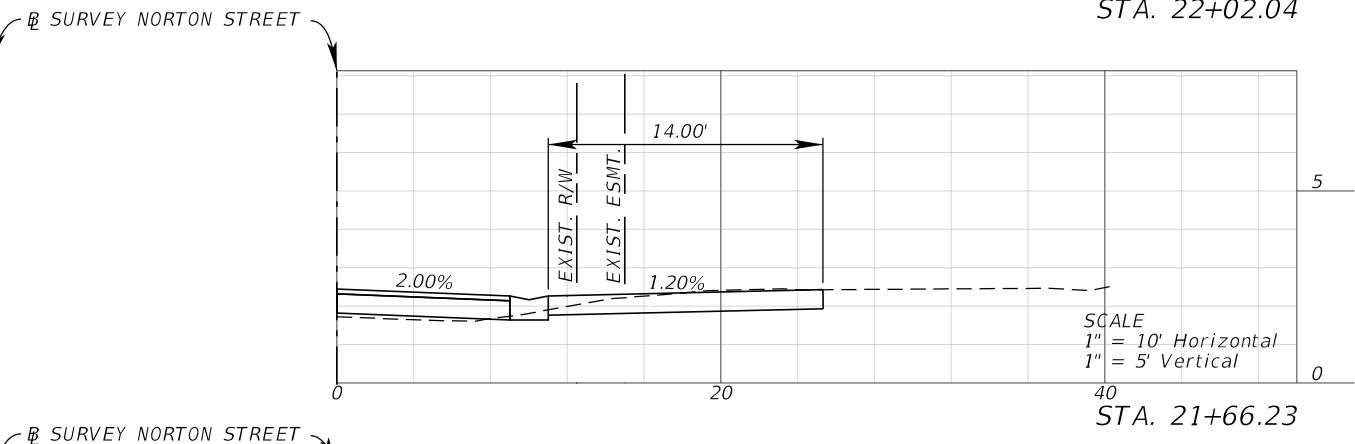
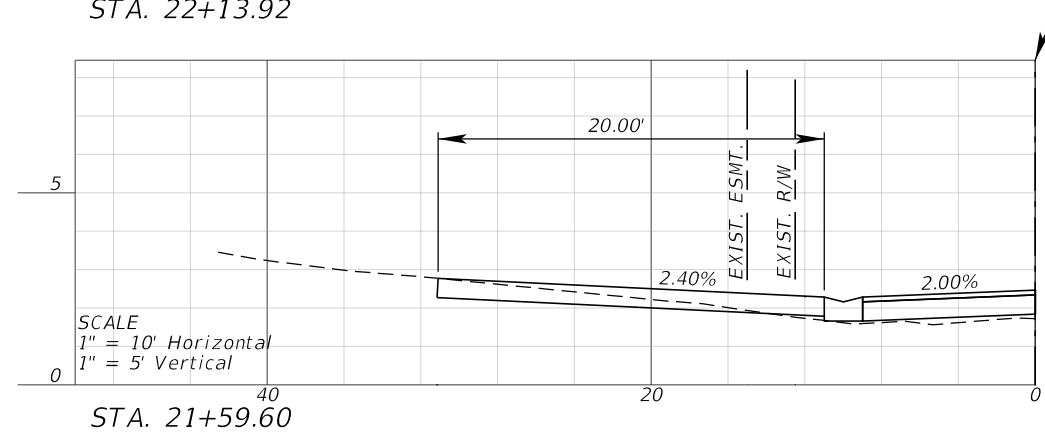
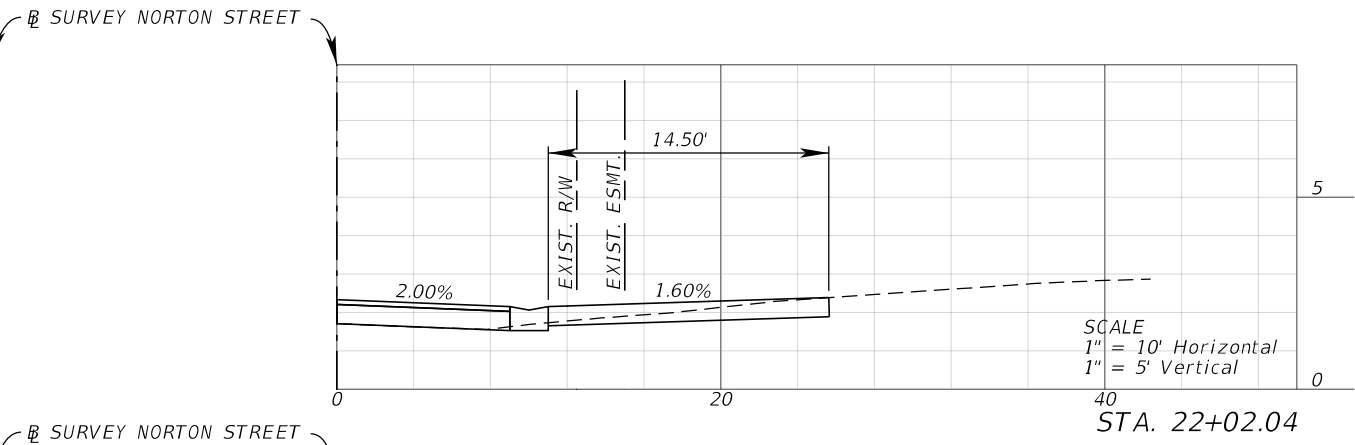
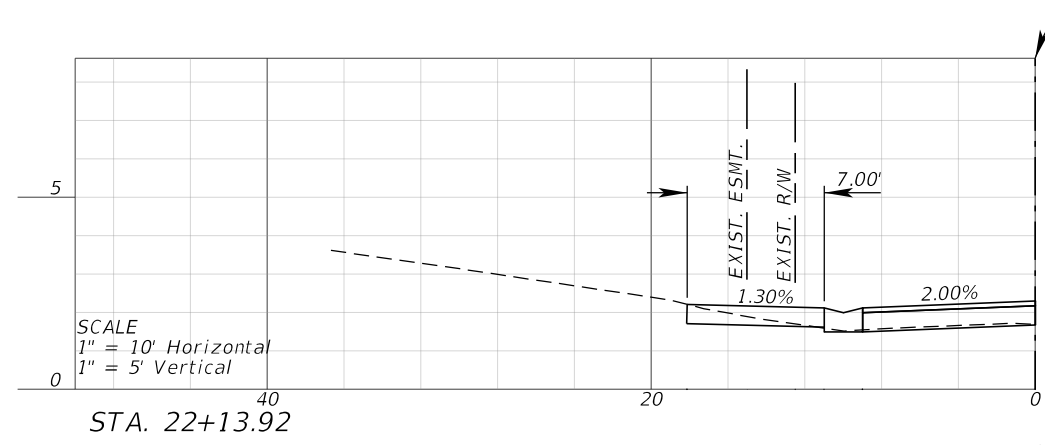
NORTON STREET

DRIVEWAY HALF SECTIONS

37

SHEET NO.

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

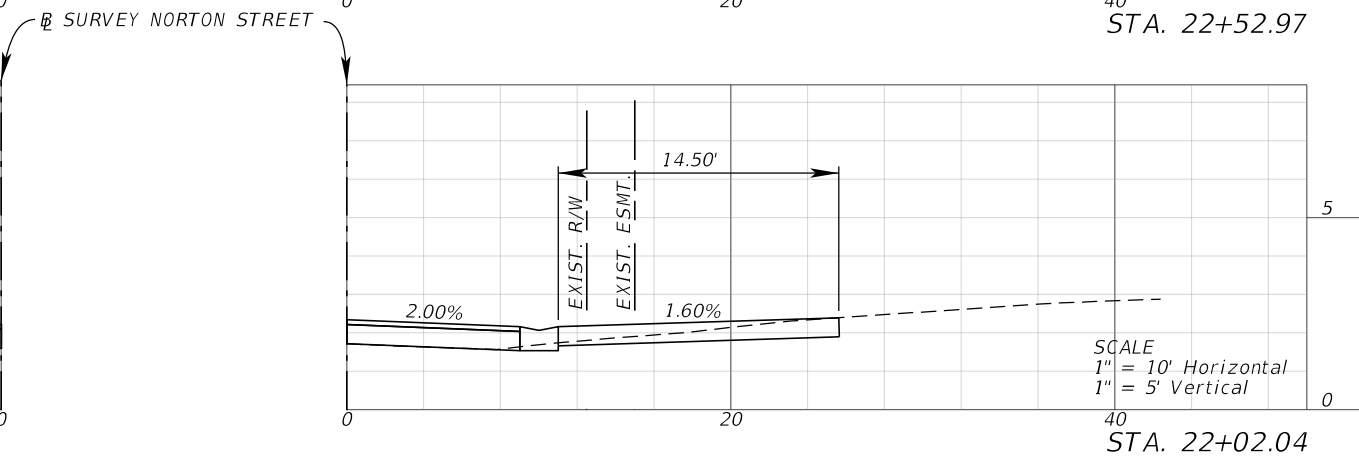
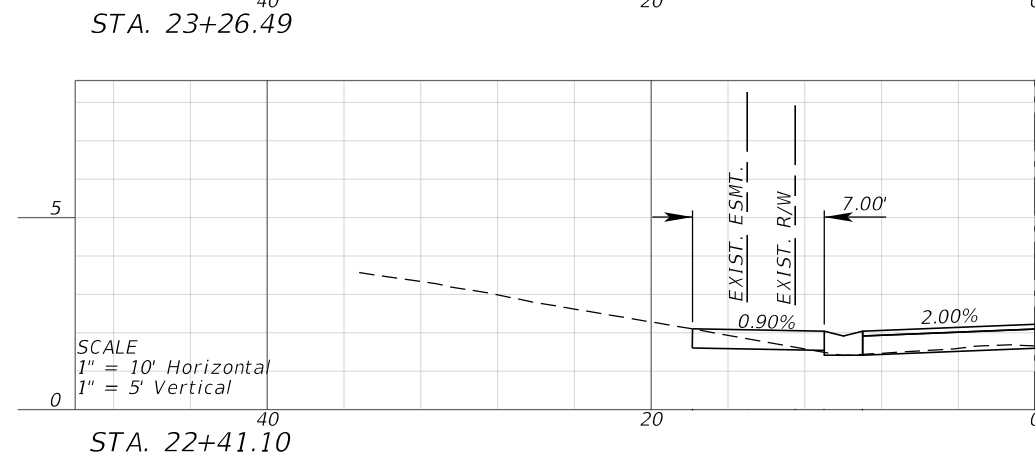
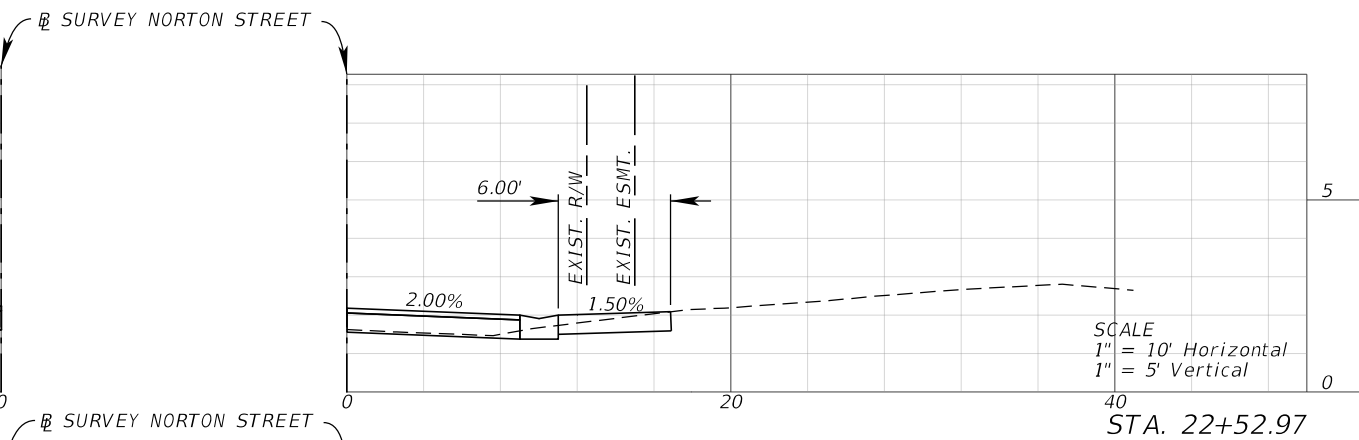
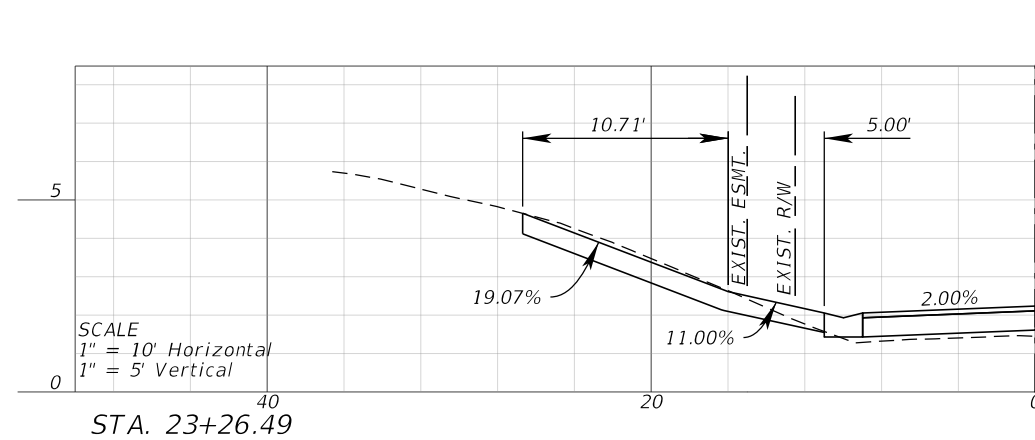
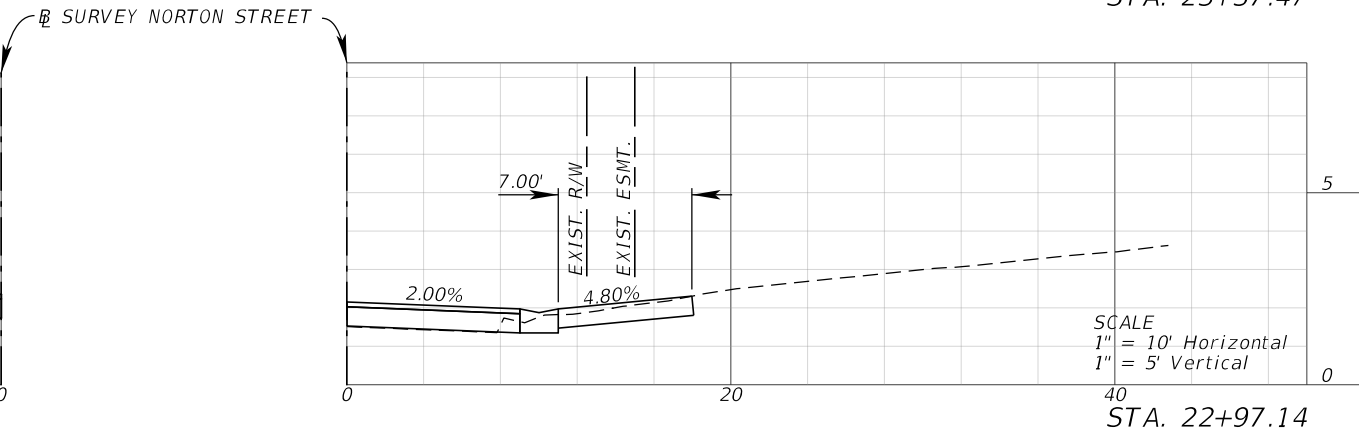
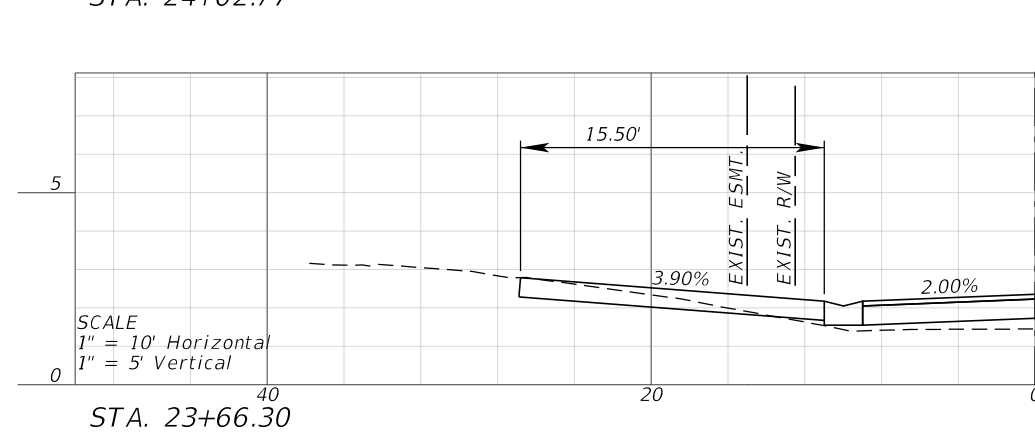
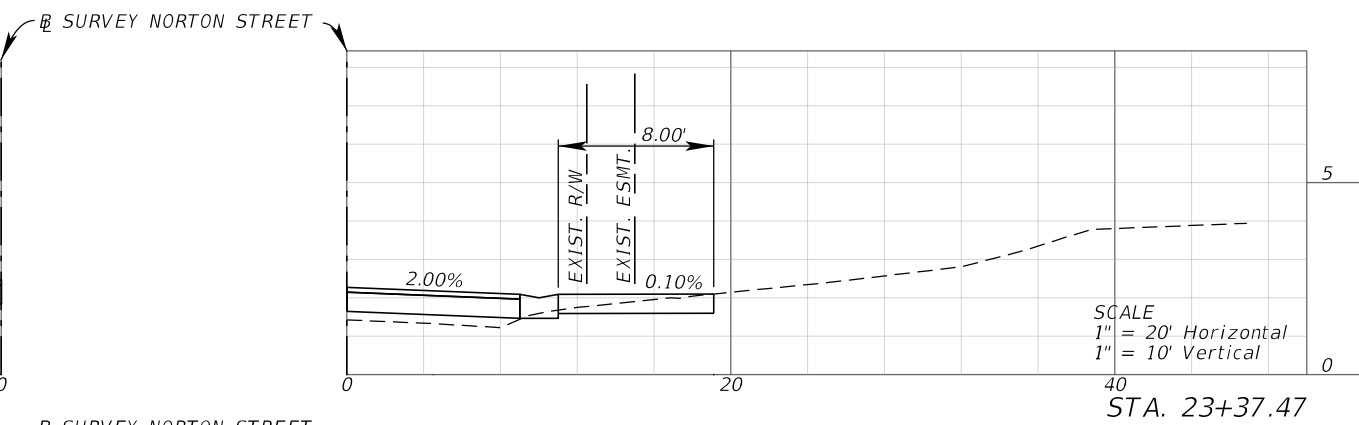
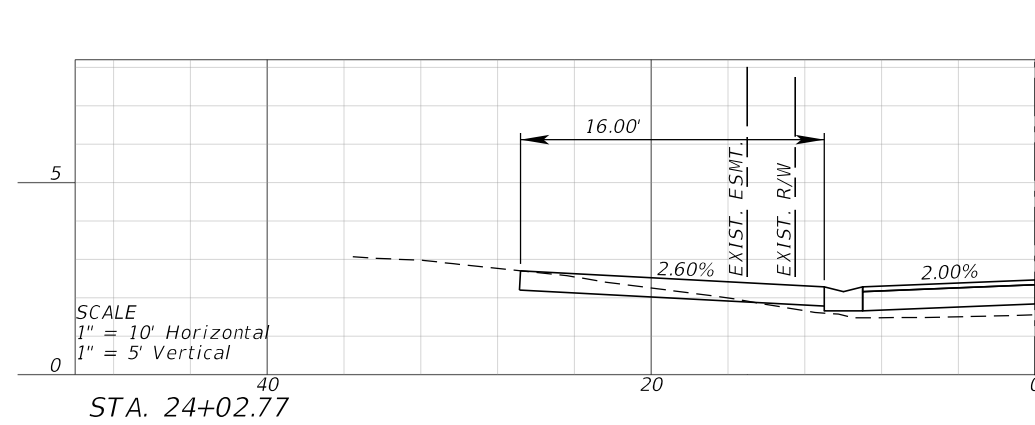
TOWN OF LONGBOAT KEY

NORTON STREET

DRIVEWAY HALF SECTIONS

38

SHEET NO.



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

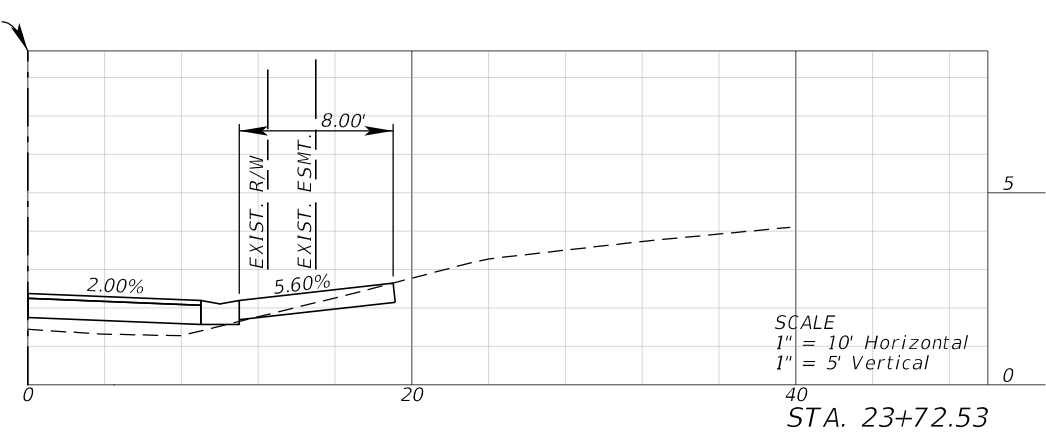
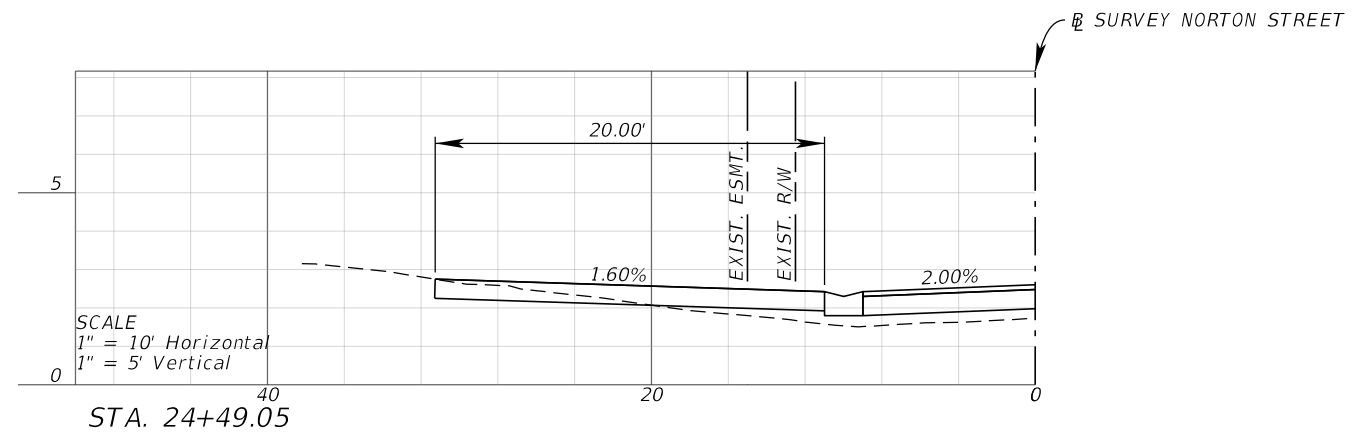
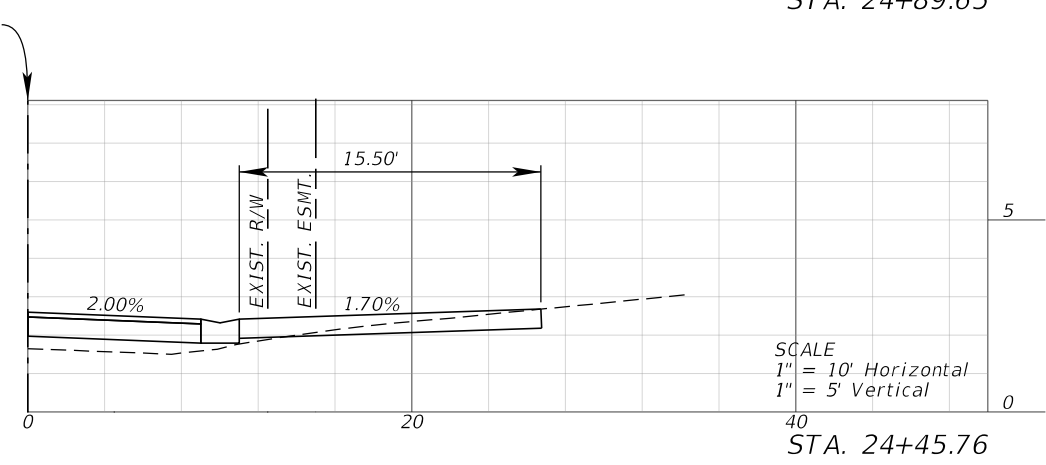
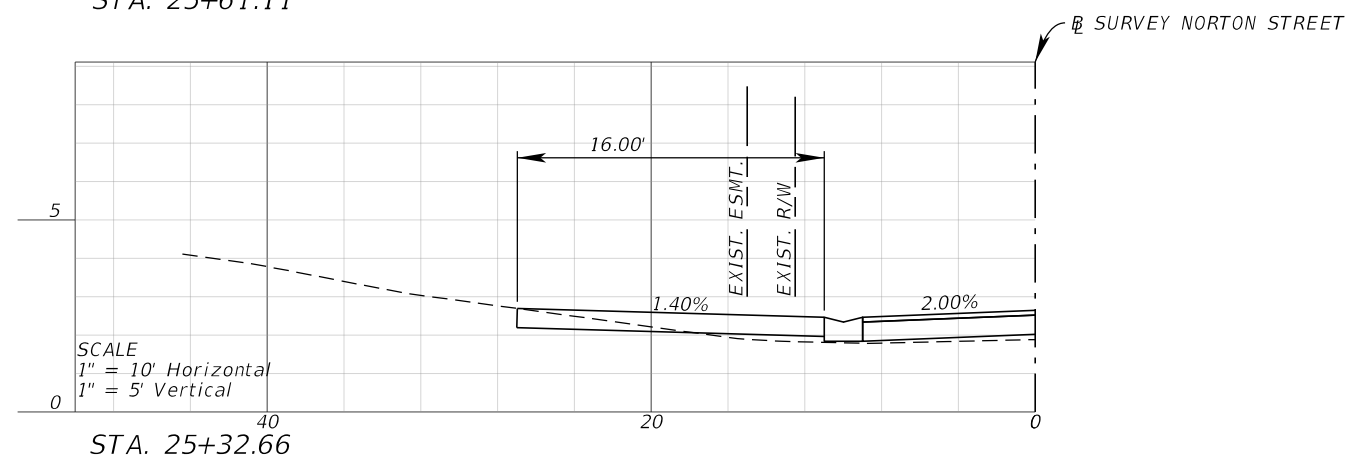
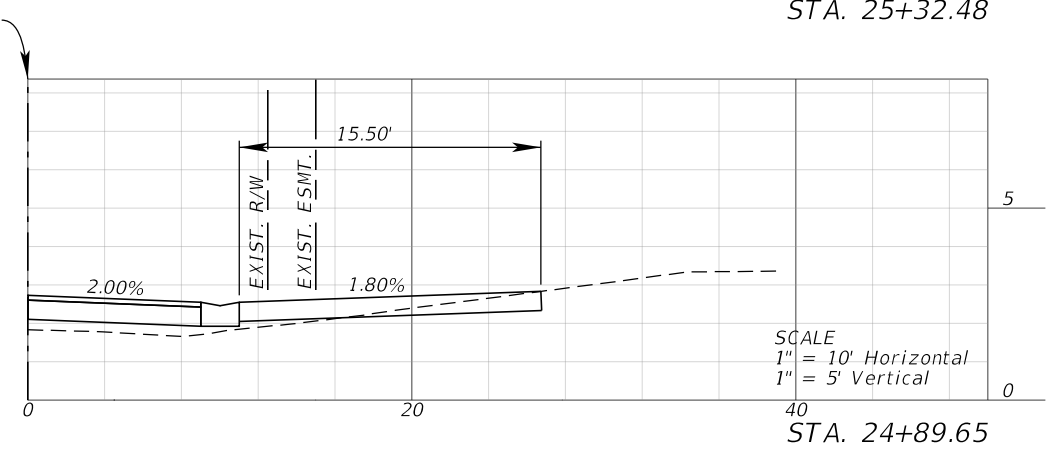
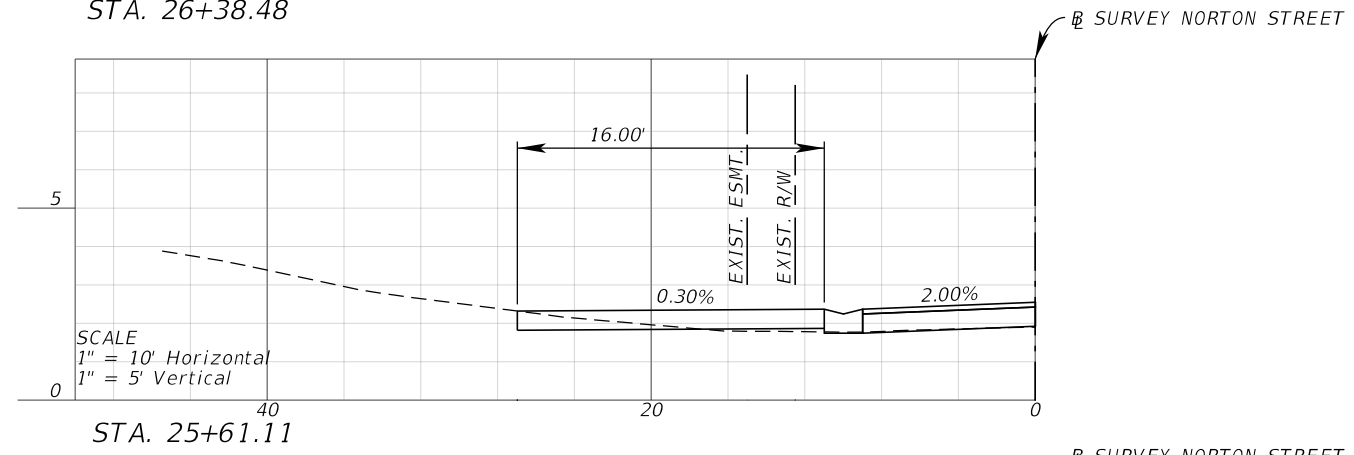
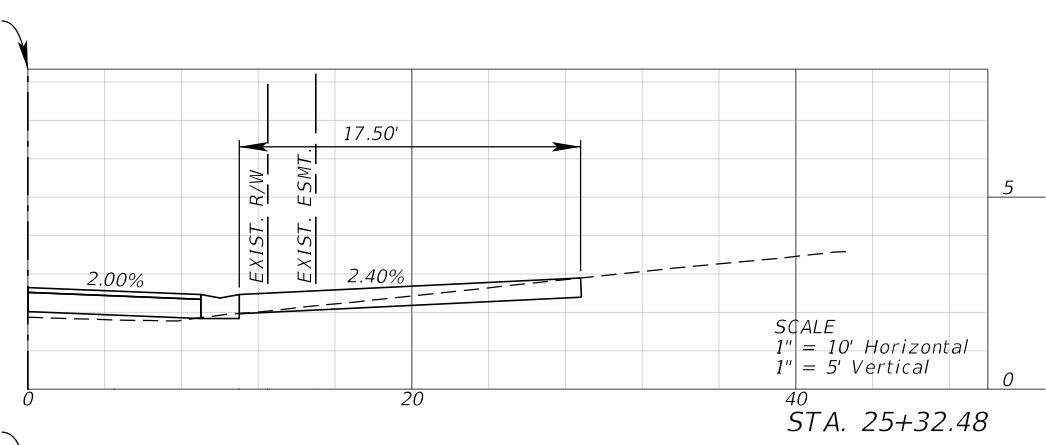
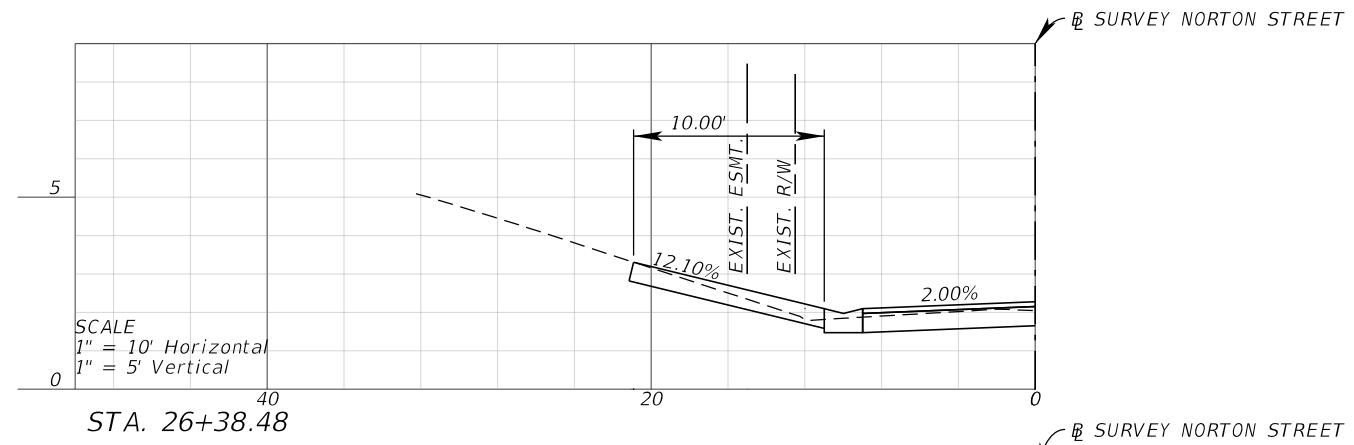
NORTON STREET

DRIVEWAY HALF SECTIONS

SHEET
NO.

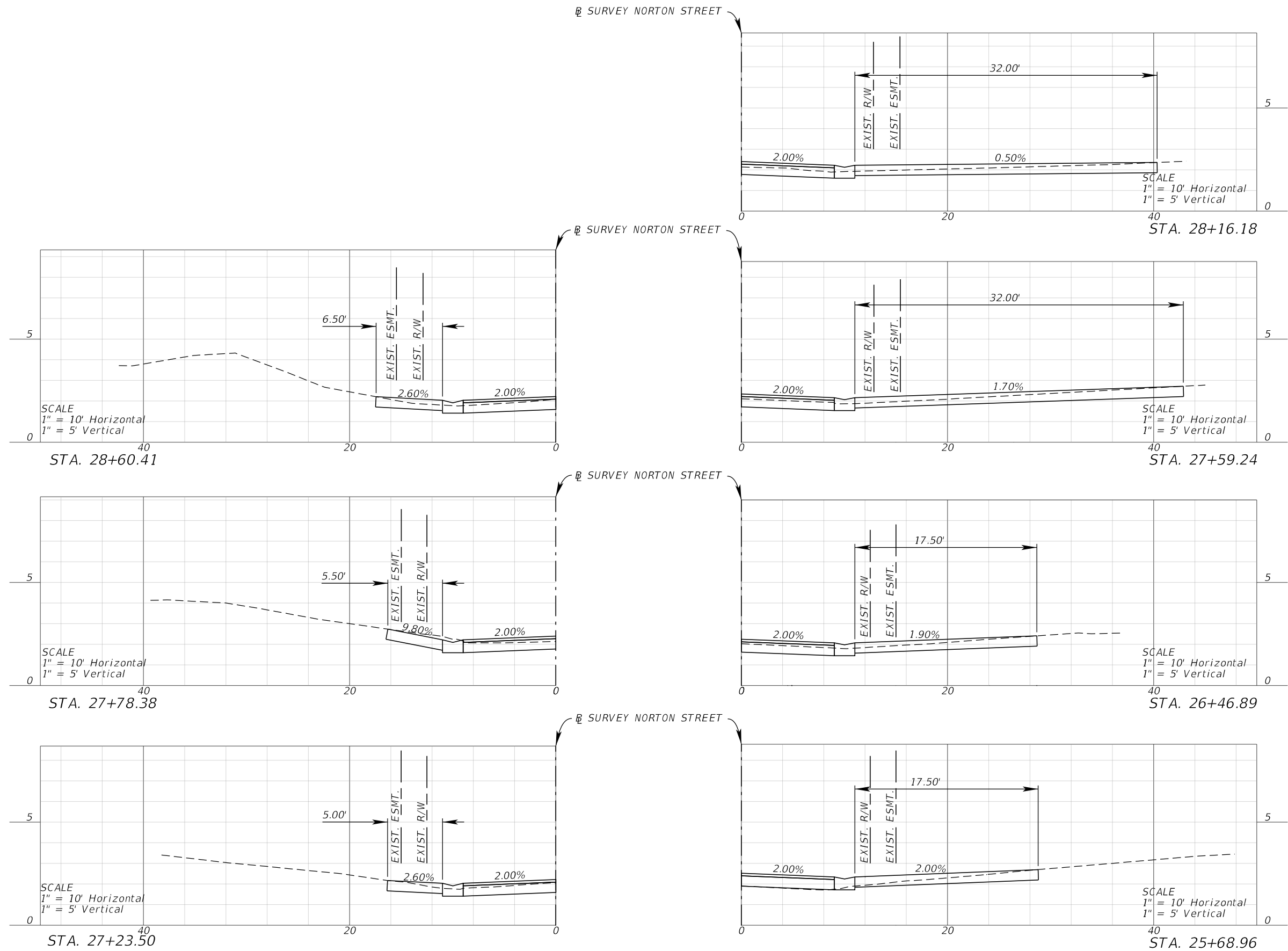
39

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DATE	DESCRIPTION	DATE	DESCRIPTION				40
					NORTON STREET		

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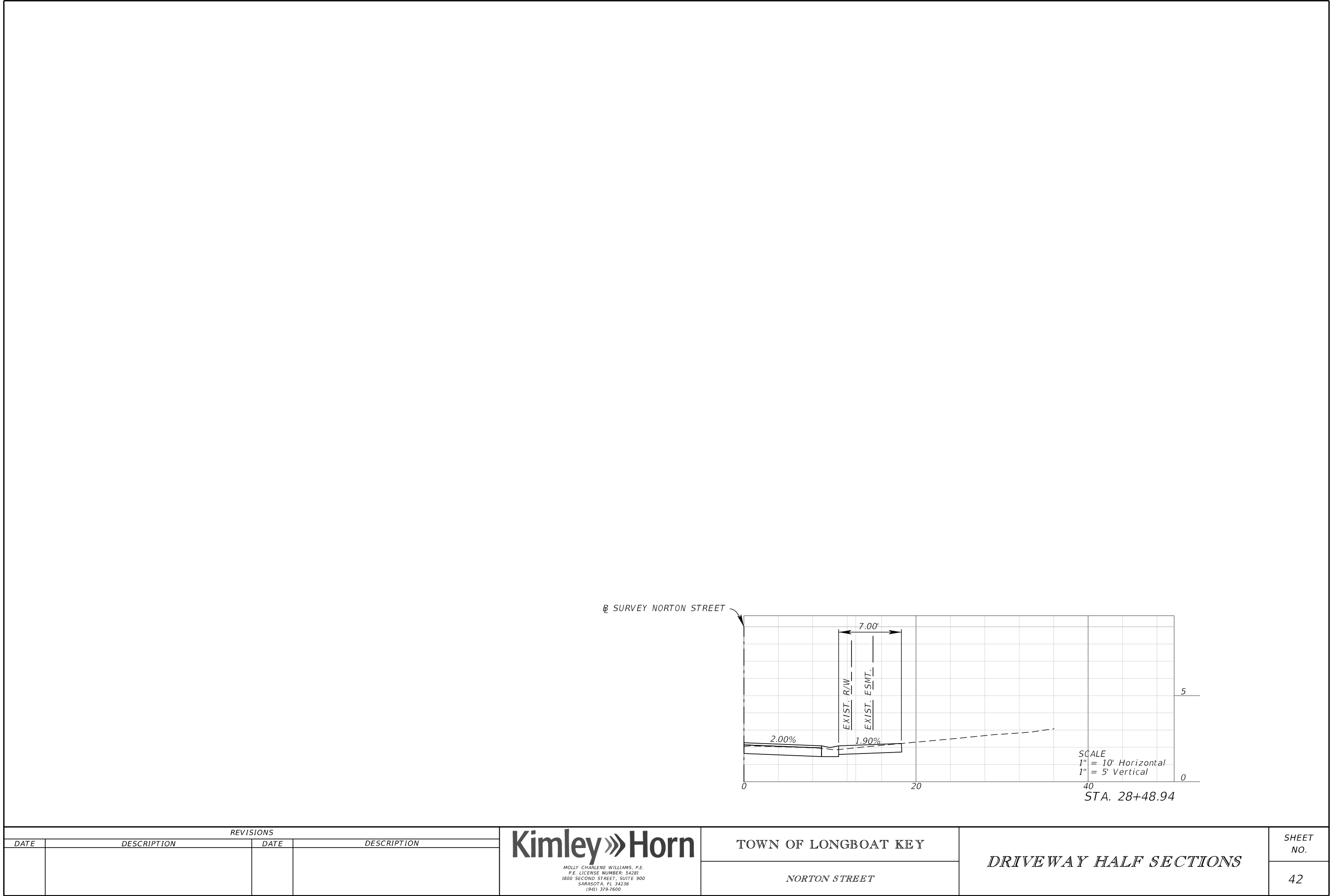
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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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	DRIVEWAY HALF SECTIONS
NORTON STREET	

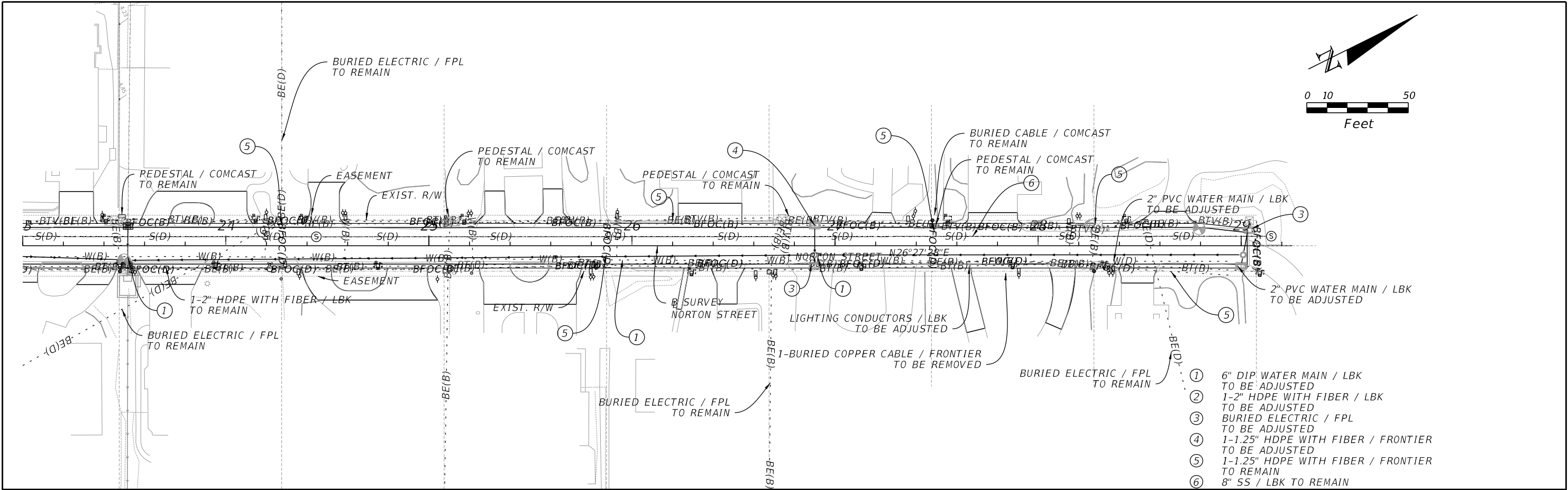
SHEET NO.
41

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DATE	DESCRIPTION	DATE	DESCRIPTION				42

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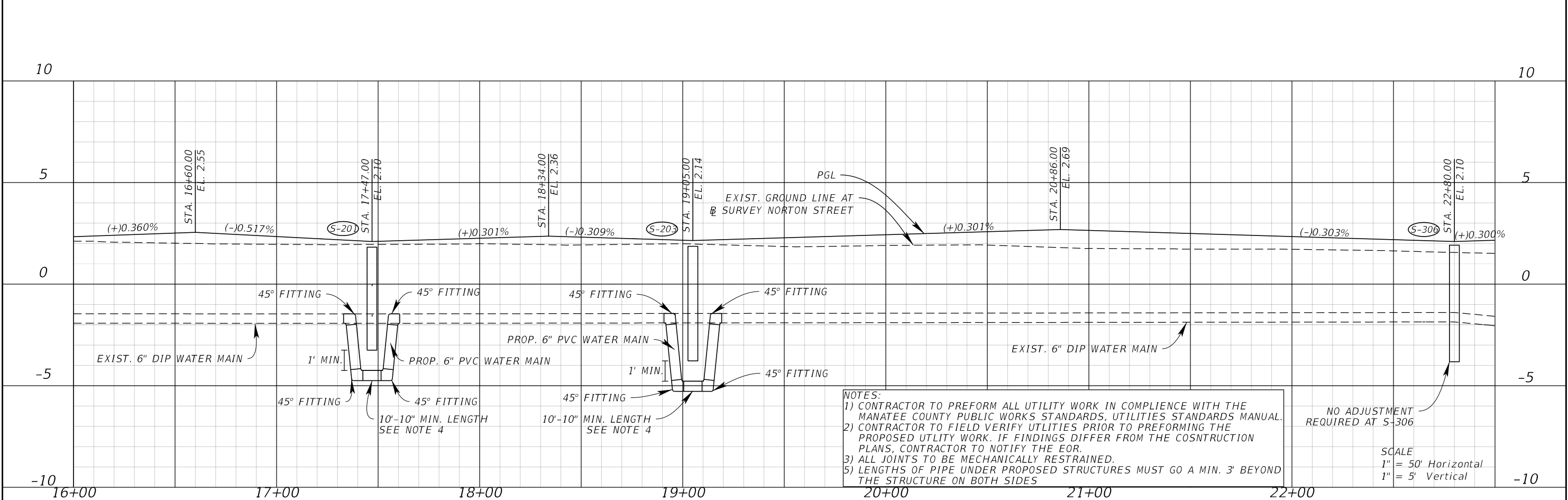
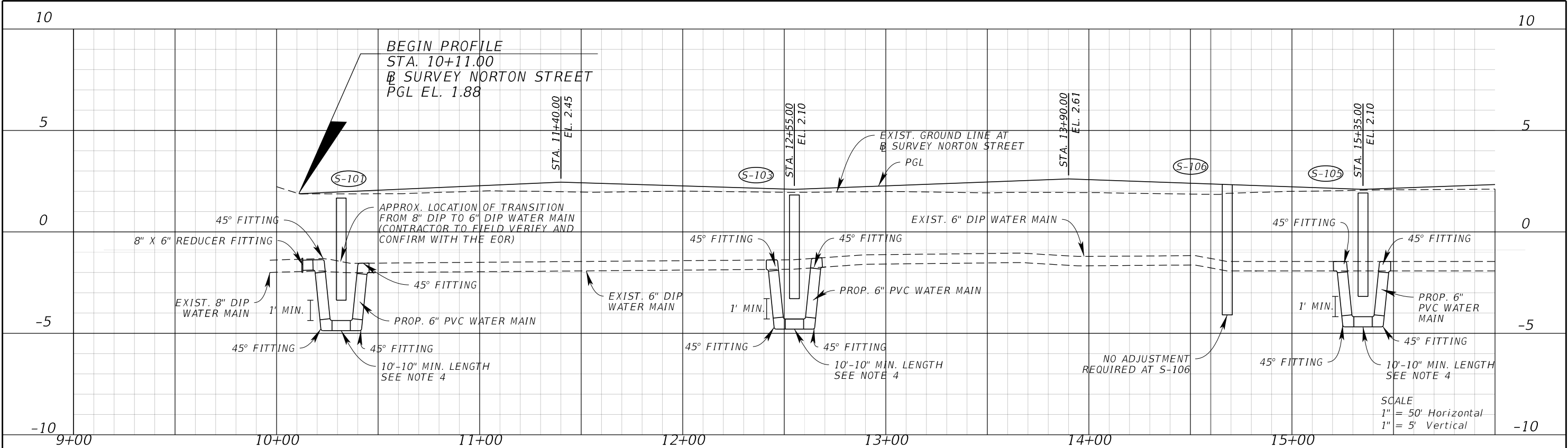
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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P.E. LICENSE NUMBER: 54281
1800 SECOND STREET, SUITE 900
SARASOTA, FL 34236
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TOWN OF LONGBOAT KEY	UTILITY ADJUSTMENT SHEET (2)	SHEET NO.
NORTON STREET		44

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

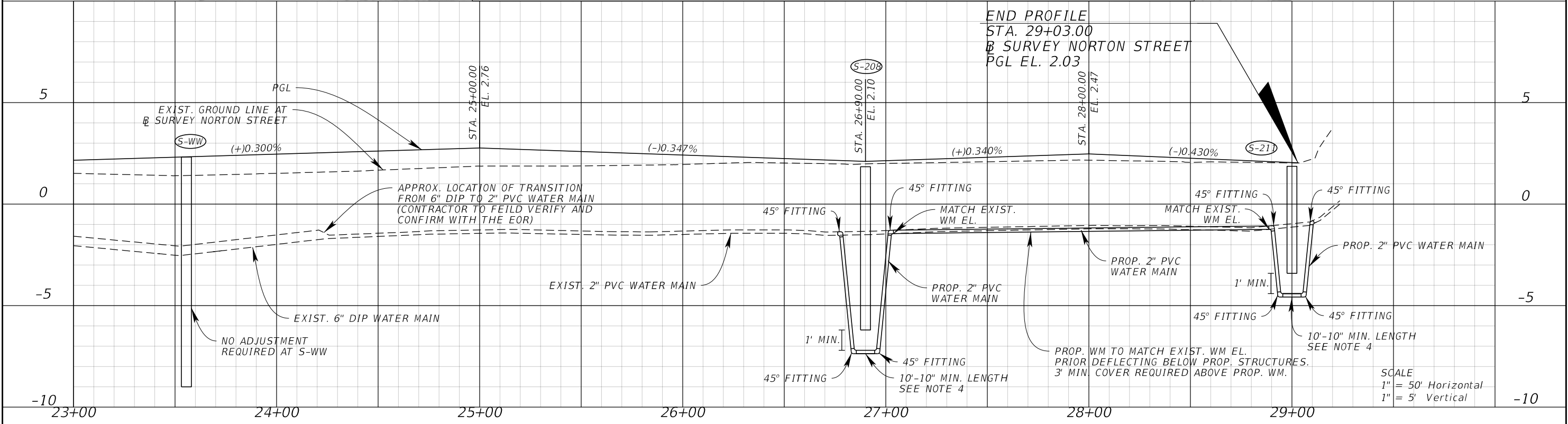
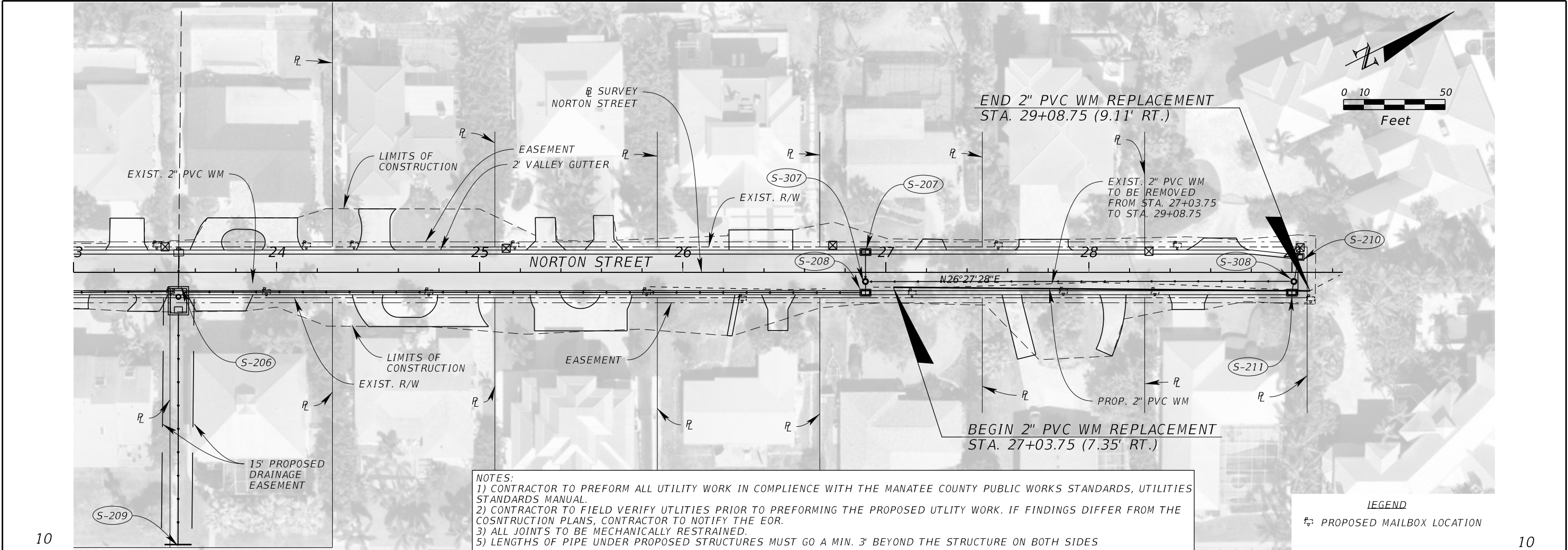
TOWN OF LONGBOAT KEY

NORTON STREET

WATER MAIN PROFILE (1)

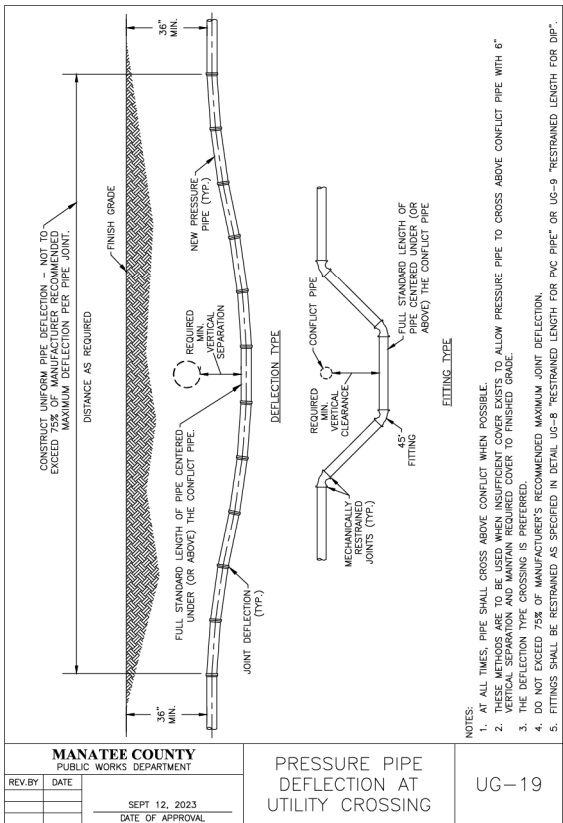
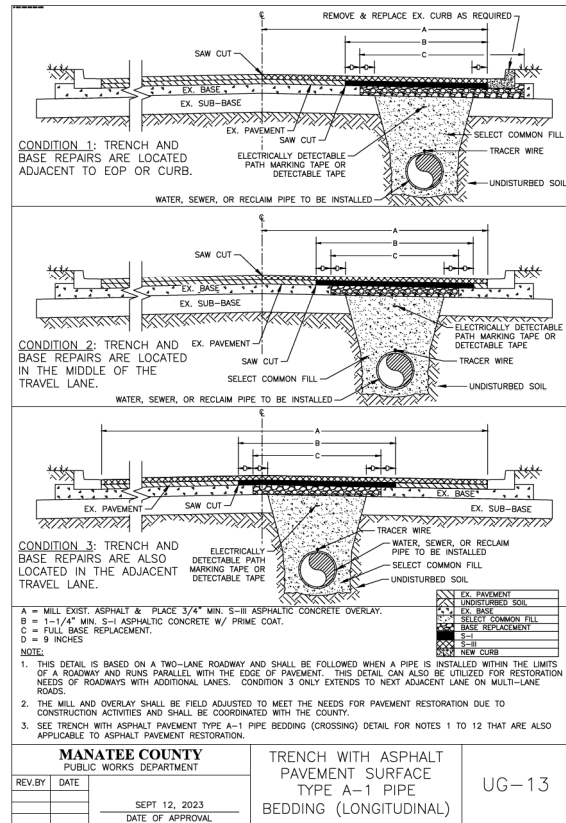
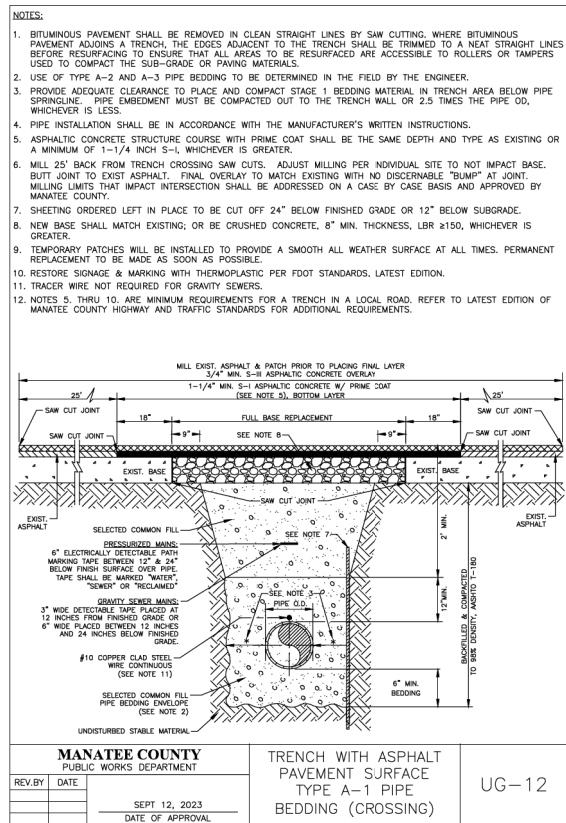
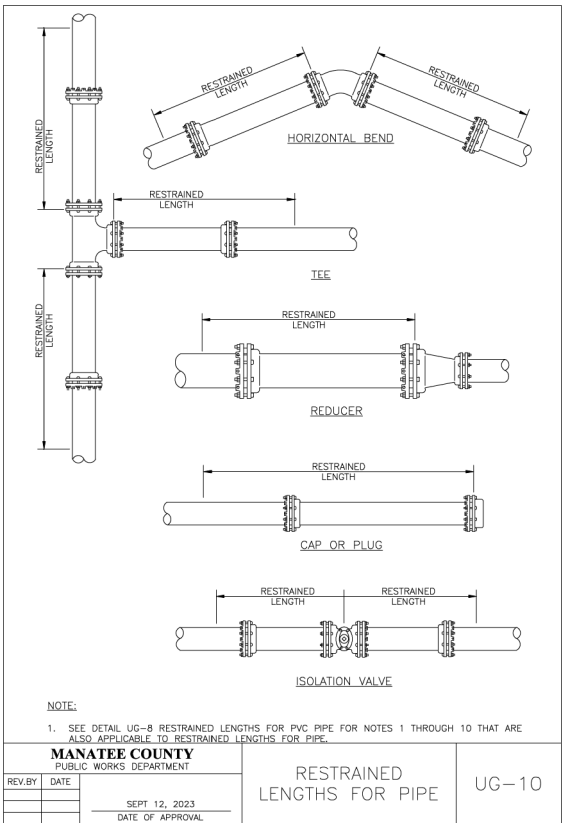
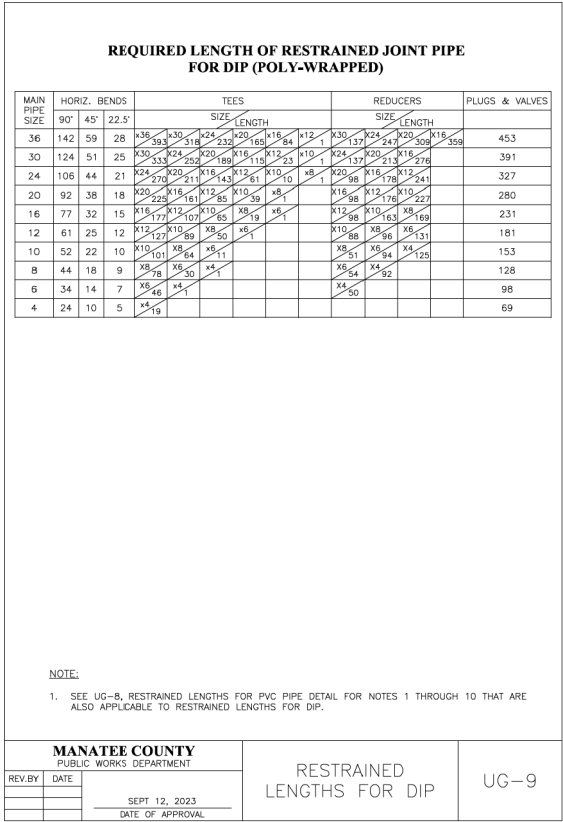
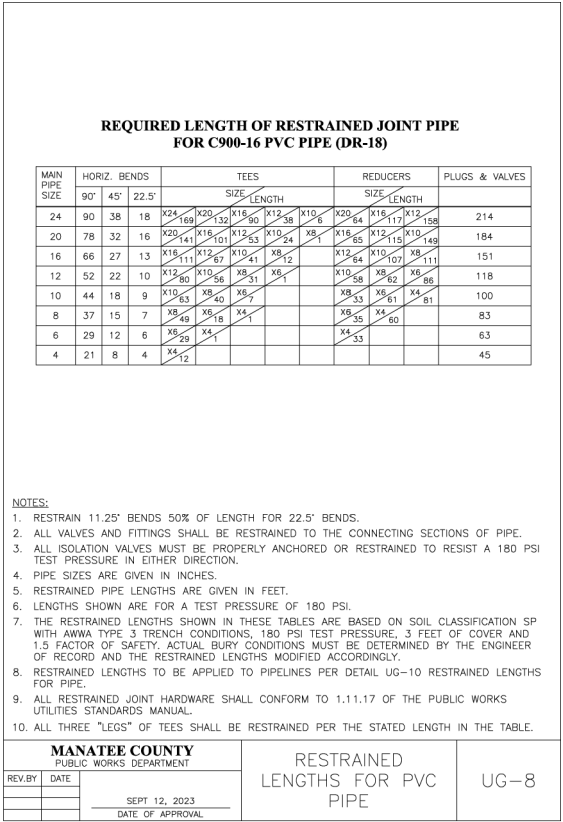
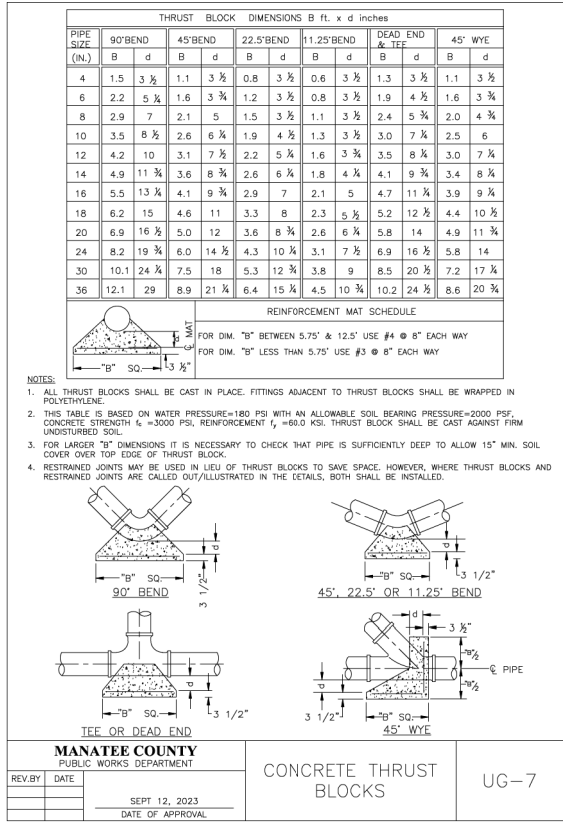
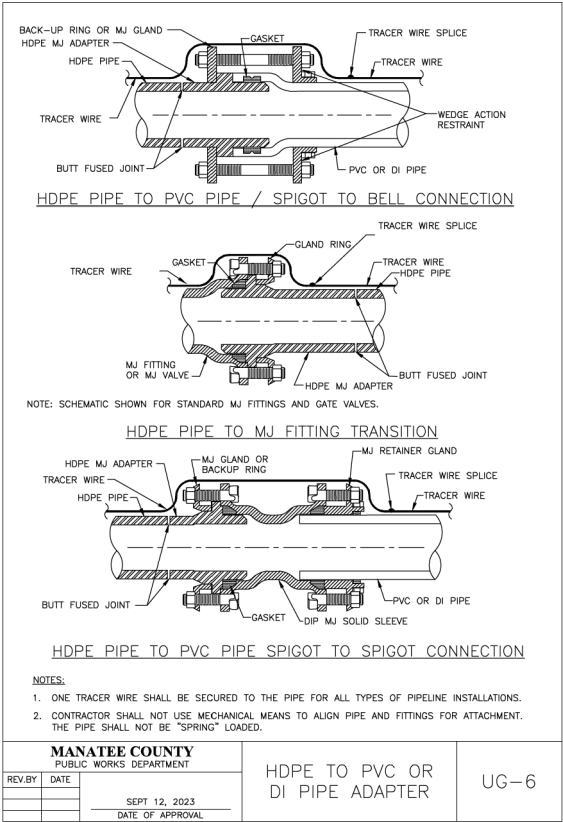
SHEET NO.

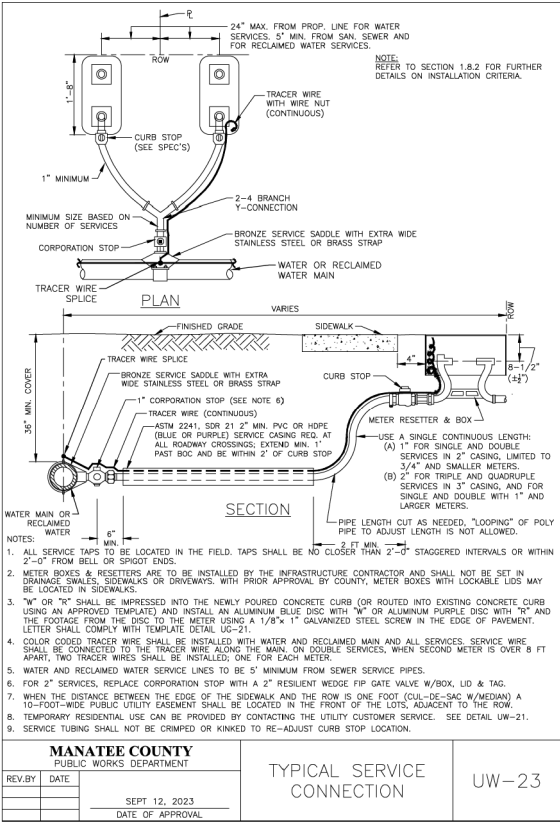
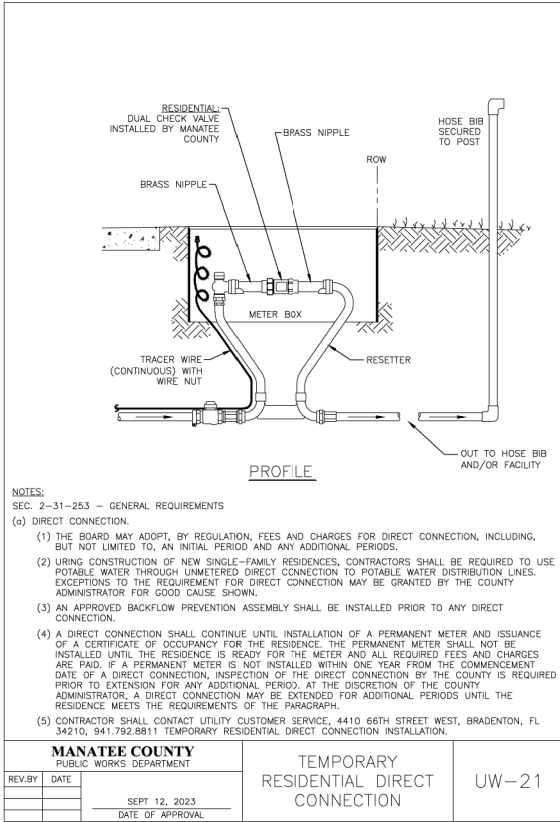
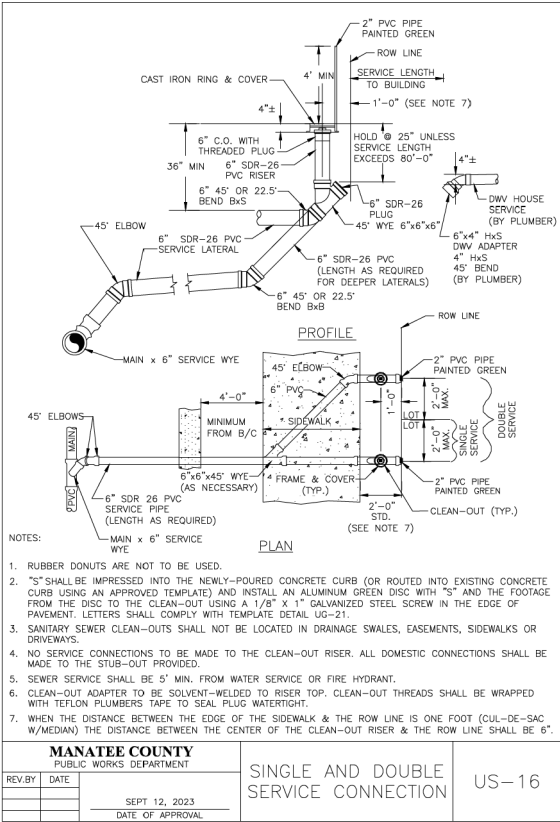
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REVISIONS				Kimley»Horn	TOWN OF LONGBOAT KEY	WATER MAIN PROFILE (2)	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION				
				MOLLY CHARLENE WILLIAMS, P.E. P.E. LICENSE NUMBER: 54281 1800 SECOND STREET, SUITE 900 SARASOTA, FL 34236 (941) 379-7600	NORTON STREET		

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REVISIONS				<div>Kimley»Horn</div> <div>MOLLY C. WILLIAMS, P.E. P.E. LICENSE NUMBER: 54281 1800 SECOND STREET, SUITE 900 SARASOTA, FL 34236 (941) 379-7600</div>	TOWN OF LONGBOAT KEY	UTILITY DETAIL SHEET (2)	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION				
					NORTON STREET		48

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.

REVISIONS				Kimley»Horn	TOWN OF LONGBOAT KEY	STORMWATER POLLUTION PREVENTION PLAN (1)	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION				
					NORTON STREET		49

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

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 usefulness 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.

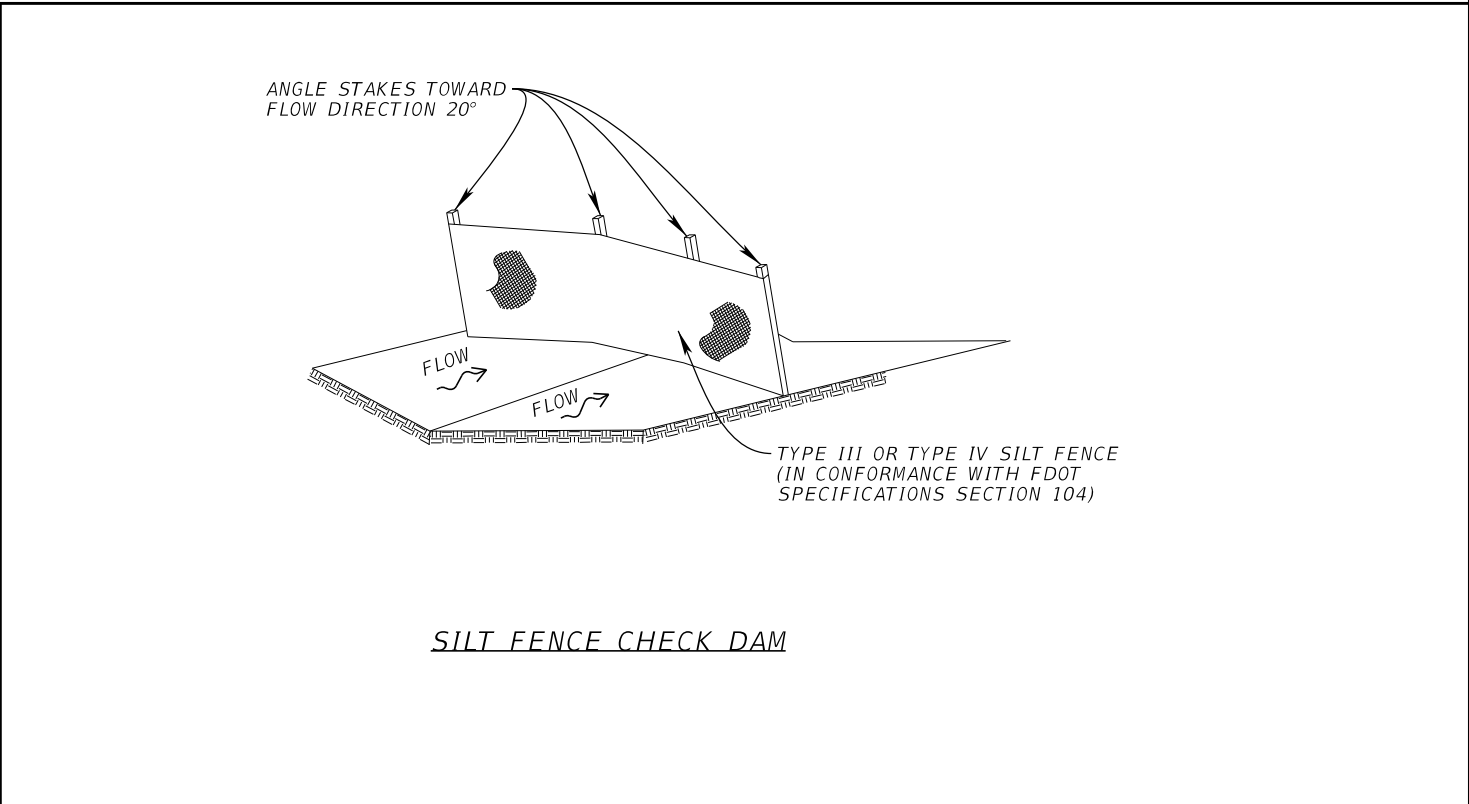
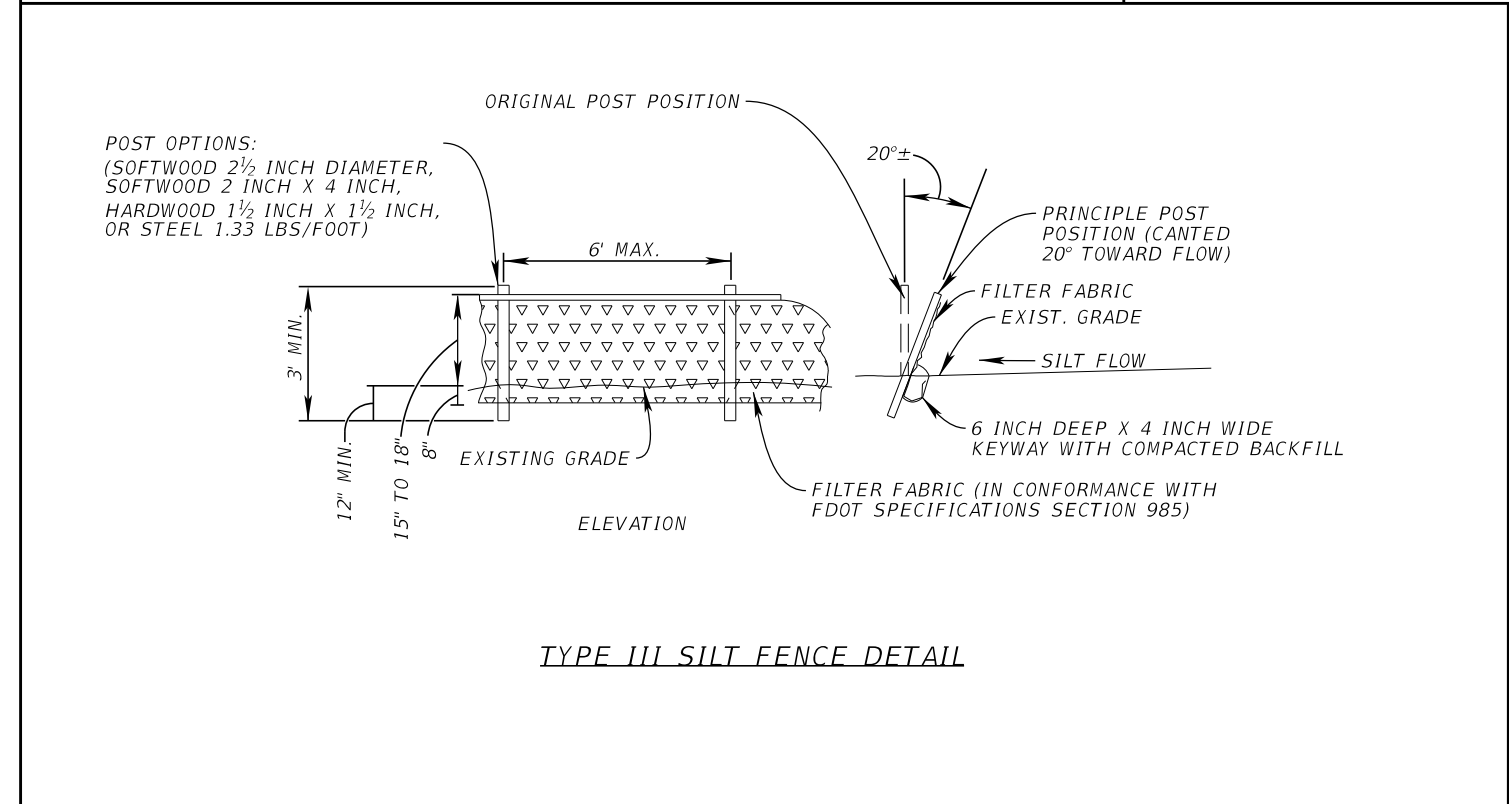
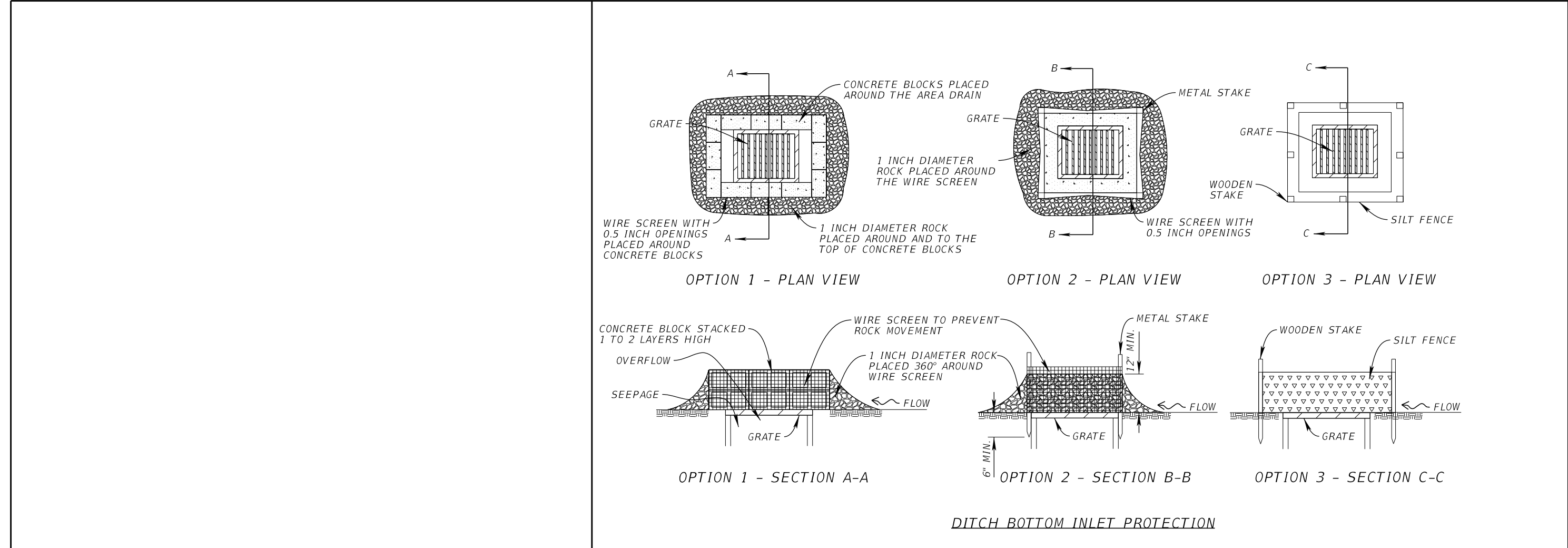
6.h Failure to report violations or to follow correct procedures before resuming work will constitute grounds for revocation of the district permit and may also render the permittee subject to enforcement action.

7.0 TRACKING AND REPORTING:

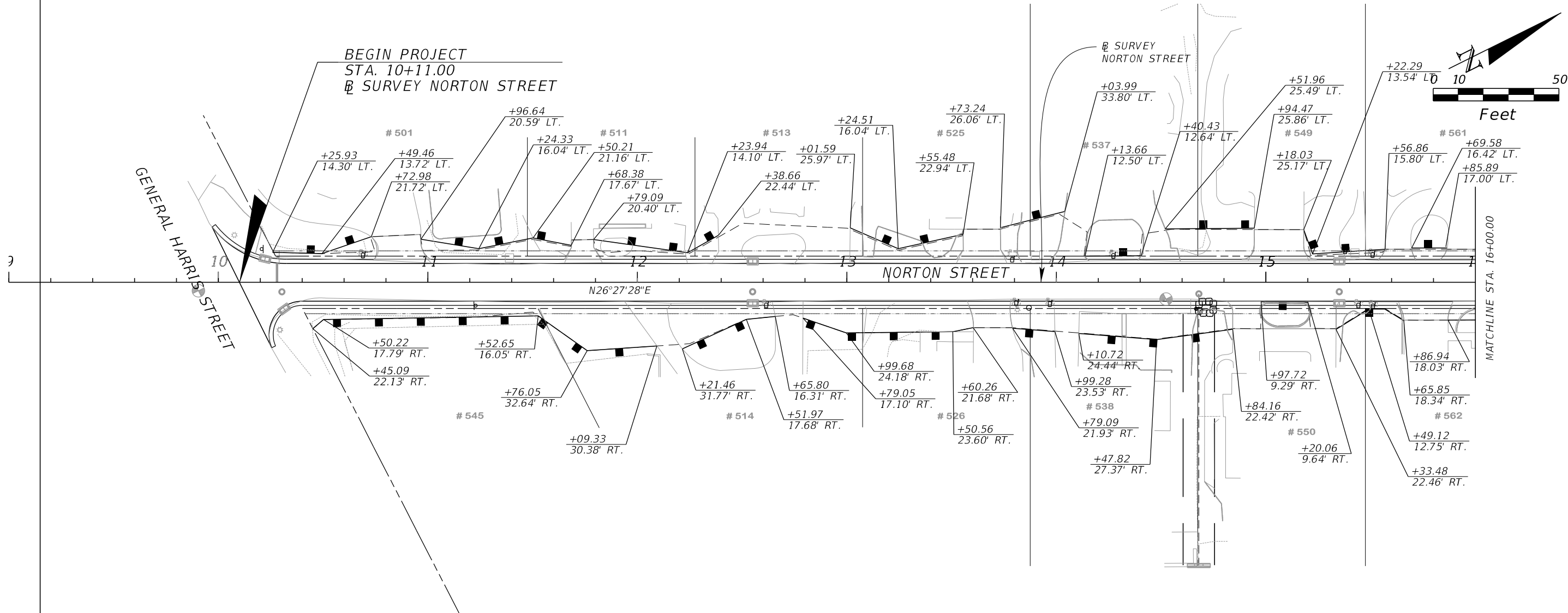
- 7.a The contractor shall submit a weekly report to the county documenting the inspections and maintenance or repairs to the erosion and sediment control devices. The contractor shall maintain all required reports and complete all SWPPP inspection forms.
- 7.b Preparation of all the contractor's reports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

REVISIONS				Kimley»Horn	TOWN OF LONGBOAT KEY	STORMWATER POLLUTION PREVENTION PLAN (2)	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION				
					NORTON STREET		50

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



REVISIONS				Kimley»Horn	TOWN OF LONGBOAT KEY	EROSION CONTROL DETAIL SHEET	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION				
				MOLLY CHARLENE WILLIAMS, P.E. P.E. LICENSE NUMBER: 54281 1800 SECOND STREET, SUITE 900 SARASOTA, FL 34236 (941) 379-7600	NORTON STREET		51



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Kimley»Horn

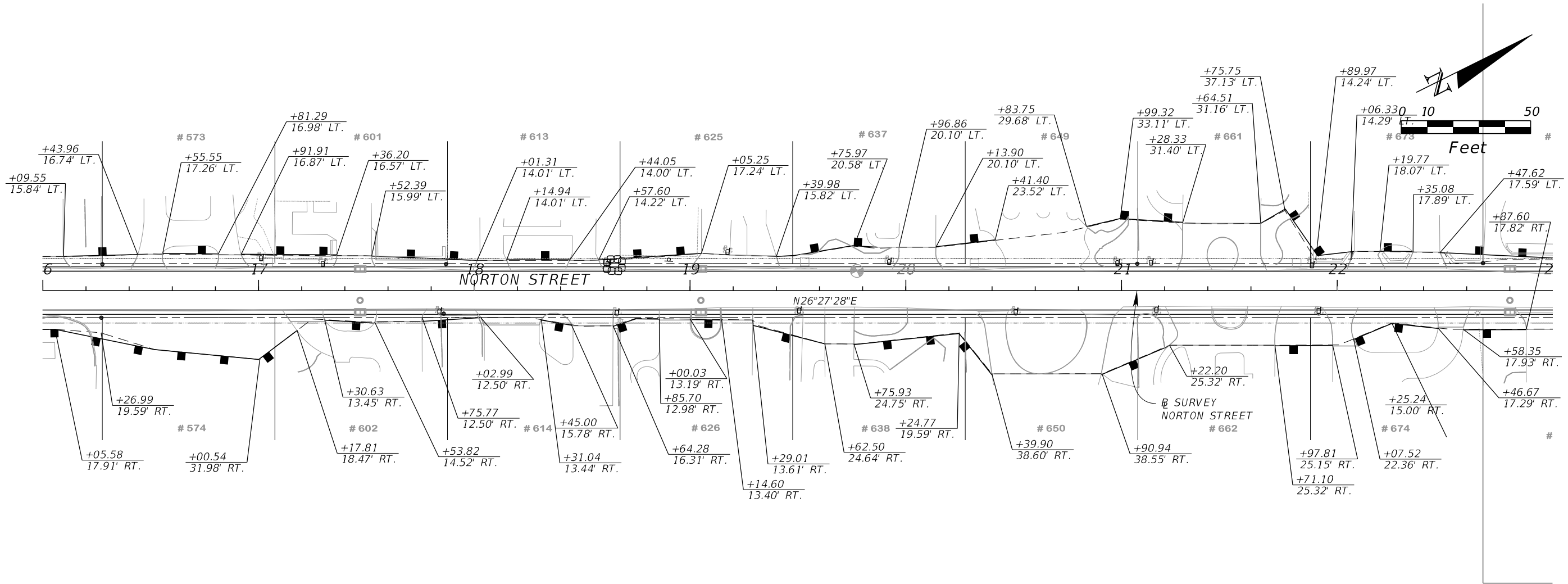
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SARASOTA, FL 34236
(941) 379-7600

TOWN OF LONGBOAT KEY
NORTON STREET

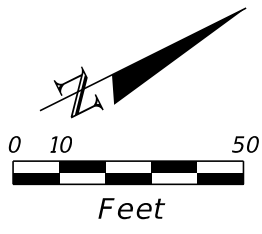
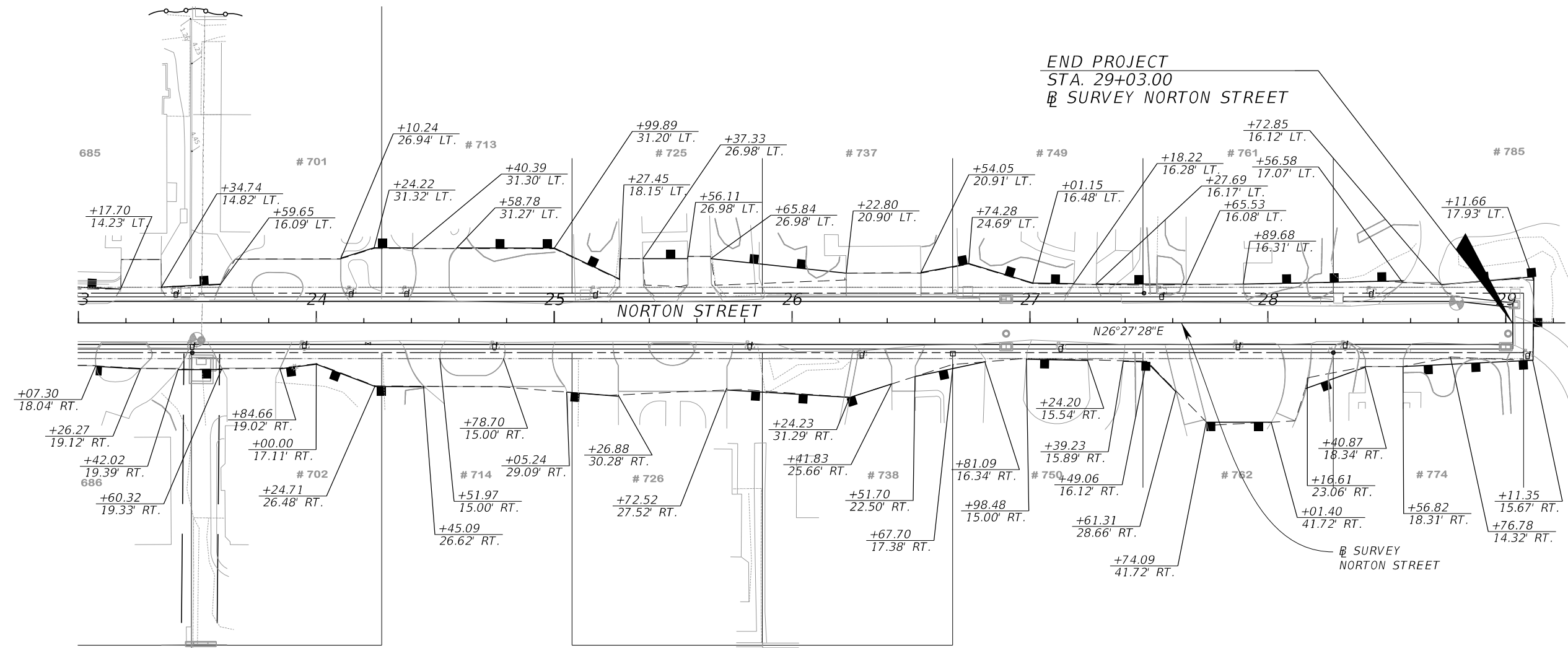
EROSION CONTROL SHEET (1)
52

SHEET NO.
52

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REVISIONS				Kimley»Horn	TOWN OF LONGBOAT KEY	EROSION CONTROL SHEET (2)	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION				
				MOLLY CHARLENE WILLIAMS, P.E. P.E. LICENSE NUMBER: 54281 1800 SECOND STREET, SUITE 900 SARASOTA, FL 34236 (941) 379-7600	NORTON STREET		53



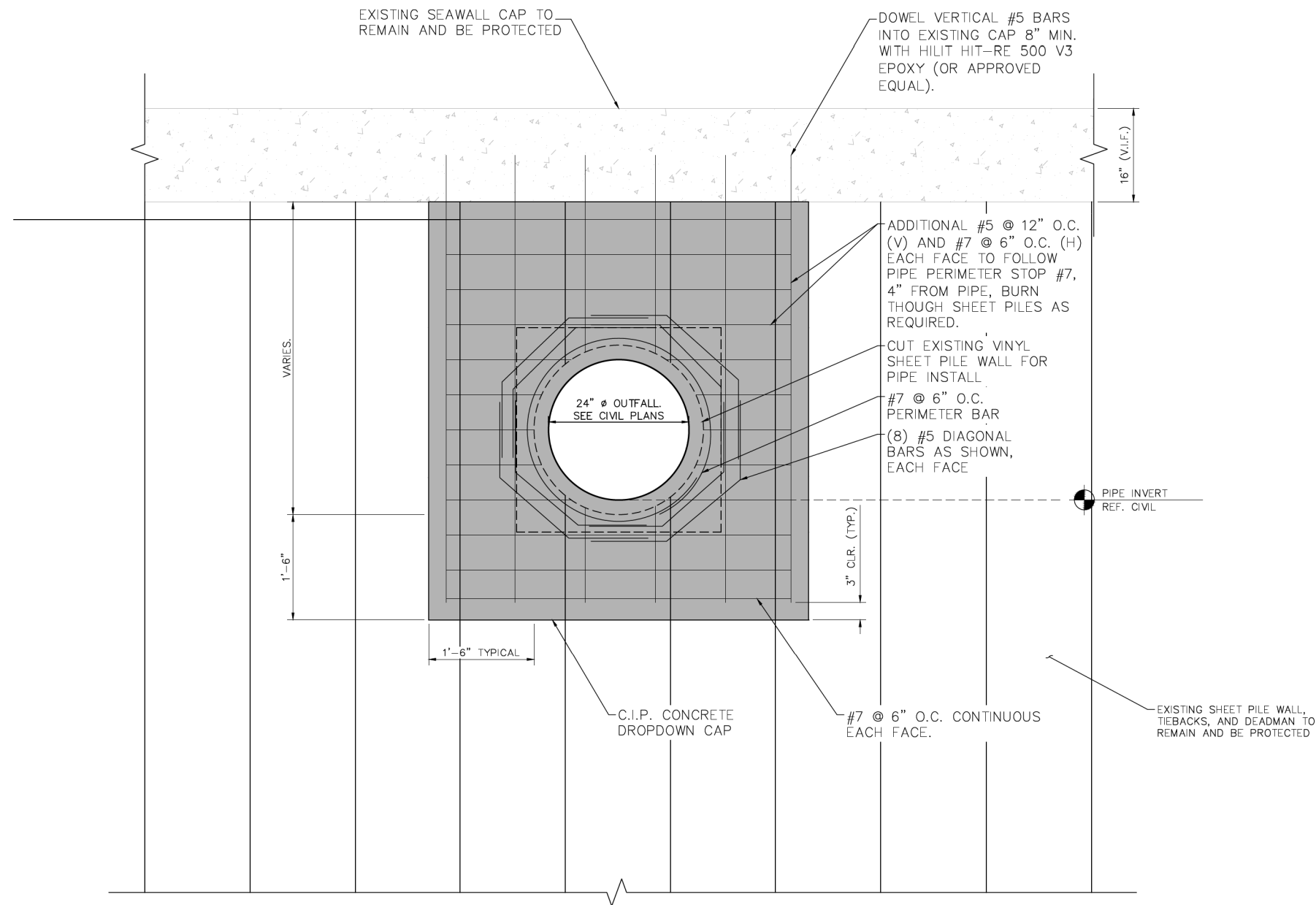
LEGEND

- INLET PROTECTION
- SEDIMENT BARRIER
- FLOATING TURBIDITY BARRIER

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

REVISIONS				Kimley»Horn	TOWN OF LONGBOAT KEY	EROSION CONTROL SHEET (3)	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION				
				MOLLY CHARLENE WILLIAMS, P.E. P.E. LICENSE NUMBER: 54281 1800 SECOND STREET, SUITE 900 SARASOTA, FL 34236 (941) 379-7600	NORTON STREET		54

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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				Kimley»Horn	TOWN OF LONGBOAT KEY	SEAWALL PENETRATION DETAIL	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION				
				MOLLY C. WILLIAMS, P.E. P.E. LICENSE NUMBER: 54281 1800 SECOND STREET, SUITE 900 SARASOTA, FL 34236 (941) 379-7600	NORTON STREET		55