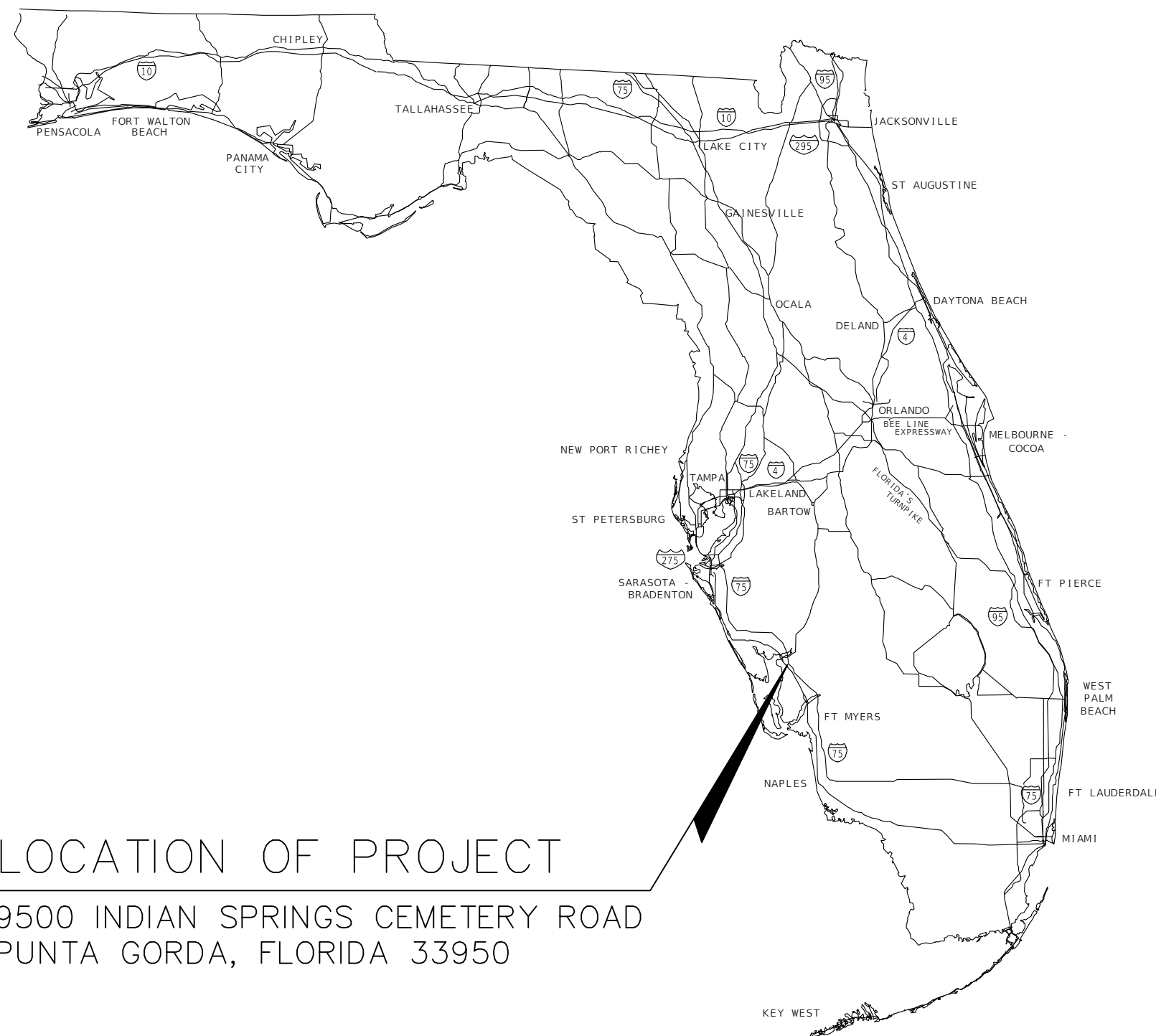


# CHARLOTTE COUNTY BOARD OF COUNTY COMMISSIONERS

## INDIAN SPRINGS CEMETERY SHORELINE STABILIZATION PROJECT

FOR

INDIAN SPRINGS CEMETERY—DESIGN & PERMITTING  
 RLI No. 2018000235, WO No. 78  
 CHARLOTTE COUNTY PURCHASING DIVISION



### LOCATION OF PROJECT

9500 INDIAN SPRINGS CEMETERY ROAD  
 PUNTA GORDA, FLORIDA 33950

**SURVEYOR**  
 ALL SERVICE LAND SURVEYING, INC.  
 17840 TOLEDO BLADE BOULEVARD  
 PORT CHARLOTTE, FLORIDA 33948  
 OFFICE (941) 629-6801  
 FAX (941) 627-5168

**BENCH MARK BASIS:**  
 ELEVATIONS ARE BASED ON SPG014  
 EL.=19.86 N.G.V.D. 1929  
 FOUND CCSD ALUMINUM DISK IN SE'LY  
 MEDIAN NEAR THE CENTERLINE INTERSECTION  
 OF N. JONES LOOP ROAD & TAYLOR ROAD.

**FLOOD ZONE DATA**  
 ELEVATIONS ARE BASED N.A.V.D. 1988  
 FLOOD ZONE "X", "AE8" & "AE9"  
 F.I.R.M. COMMUNITY MAP # 12015C  
 PANEL # 0244F DATED 5/05/03  
 MAP# 12015C0244F

**DATUM CONVERSION:**  
 N.A.V.D. 1988 ELEVATIONS WILL BE 1.135'  
 LOWER THAN THE N.G.V.D. 1929

**PROPERTY OWNER:**  
 CHARLOTTE COUNTY BOARD OF  
 COUNTY COMMISSIONERS  
 18500 MURDOCK CIRCLE, SUITE 536  
 PORT CHARLOTTE, FLORIDA 33948

**ENTITY RESPONSIBLE FOR MAINTENANCE:**  
 CHARLOTTE COUNTY BOARD OF COUNTY COMMISSIONERS  
 18500 MURDOCK CIRCLE, SUITE 536  
 PORT CHARLOTTE, FLORIDA 33948  
 TELEPHONE No. (941) 743-1944

**ZONING:**  
 RET - RESIDENTIAL, ESTATE

**INTENDED USE:**  
 7600 - MORTUARIES, CEMETERIES, CREMATORIALS

**THE WATER AND SEWER SERVICE WILL BE PROVIDED BY:**  
 WATER: CHARLOTTE COUNTY UTILITIES  
 SEWER: CHARLOTTE COUNTY UTILITIES

**THE POWER SERVICE WILL BE PROVIDED BY:**  
 FLORIDA POWER AND LIGHT

**THE TELEPHONE SERVICE WILL BE PROVIDED BY:**  
 CENTURYLINK

**SOLID WASTE WILL BE PROVIDED BY:**  
 WASTE MANAGEMENT, INC.

**GOVERNING DESIGN STANDARDS:**

FLORIDA DEPARTMENT OF TRANSPORTATION, FY2024-25 STANDARDS 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](http://www.FDOT.GOV/DESIGN/STANDARDPLANS)

APPLICABLE IRS:

**GOVERNING STANDARD SPECIFICATIONS:**

FLORIDA DEPARTMENT OF TRANSPORTATION, FY2024-25 STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AT THE FOLLOWING WEBSITE:  
[HTTP://WWW.DOT.STATE.FL.US/PROGRAMMANAGEMENT/IMPLEMENTED/SPECBOOKS](http://www.DOT.STATE.FL.US/PROGRAMMANAGEMENT/IMPLEMENTED/SPECBOOKS)



### LOCATION MAP

NOT TO SCALE

SECTIONS 21 & 28, TOWNSHIP 41 SOUTH, RANGE 23 EAST

### PROPERTY ADDRESS

9500 INDIAN SPRINGS CEMETERY ROAD  
 PUNTA GORDA, FLORIDA 33950

MAY 2024

CALL 48 HOURS BEFORE YOU DIG  
**It's the Law! 1-800-432-4770**  
 SUNSHINE STATE ONE CALL OF FLORIDA, INC.

PLANS PREPARED BY:



**CONSOR Engineers.**  
 2041 VISTA PARKWAY, SUITE 101  
 WEST PALM BEACH, FLORIDA 33411  
 T: (561) 253-9570  
 E: [william.adams@consoreng.com](mailto:william.adams@consoreng.com)

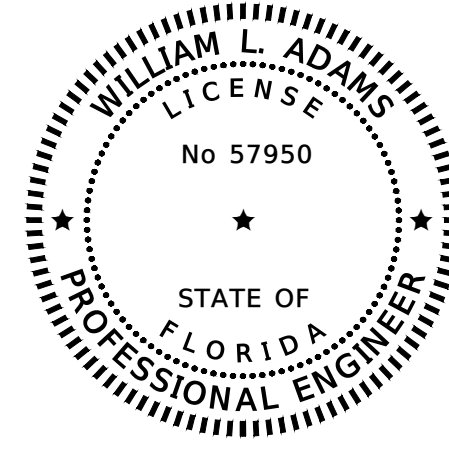
### INDEX OF DRAWINGS

- C1A COVER SHEET
- C1B SIGNATURE SHEET
- C1C SUMMARY OF QUANTITIES
- C2 SURVEY
- C3 AERIAL
- C4 OVERALL EXISTING CONDITIONS
- C5 EXISTING CONDITIONS
- C6 EXISTING CONDITIONS
- C7 EXISTING CONDITIONS
- C8 EXISTING CONDITIONS
- C9 EXISTING CONDITIONS
- C10 TYPICAL SECTION
- C11 TYPICAL SECTION
- C12 PLAN AND CROSS SECTIONS
- C13 PLAN AND CROSS SECTIONS
- C14 PLAN AND CROSS SECTIONS
- C15 PLAN AND CROSS SECTIONS
- C16 EROSION CONTROL PLAN
- S-1 SHEET PILE WALL DETAILS

### COUNTY COMMISSIONERS

- KEN DOHERTY, DISTRICT 1
- CHRISTOPHER CONSTANCE, DISTRICT 2, VICE CHAIRMAN
- BILL TRUAX, DISTRICT 3, CHAIRMAN
- STEPHEN R. DEUTSCH, DISTRICT 4
- JOE TISEO, DISTRICT 5

ORIGINAL DATE:			SHEET
REVISIONS:			
DATE	DESCRIPTION	BY	C1A
			William L. Adams, P.E. P.E. No. 57950 State of Florida CONSOR Engineers Job No. 12855



THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY

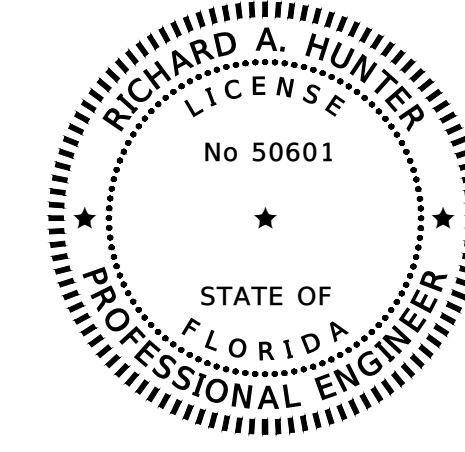
ON THE DATE ADJACENT TO THE SEAL

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

CONSOR ENGINEERS, LLC  
2041 VISTA PARKWAY, SUITE 101  
WEST PALM BEACH, FLORIDA 33411  
CERTIFICATE OF AUTHORIZATION NO. 9302  
WILLIAM L. ADAMS, P.E. NO. 57950

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

SHEET NO.	SHEET DESCRIPTION
C1A	COVER SHEET
C1B	SIGNATURE SHEET
C1C	SUMMARY OF QUANTITIES
C3	AERIAL
C4	OVERALL EXISTING CONDITIONS
C5	EXISTING CONDITIONS
C6	EXISTING CONDITIONS
C7	EXISTING CONDITIONS
C8	EXISTING CONDITIONS
C9	EXISTING CONDITIONS
C10	TYPICAL SECTION
C11	TYPICAL SECTION
C12	PLAN AND CROSS SECTIONS
C13	PLAN AND CROSS SECTIONS
C14	PLAN AND CROSS SECTIONS
C15	PLAN AND CROSS SECTIONS
C16	EROSION CONTROL PLAN



THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY

ON THE DATE ADJACENT TO THE SEAL

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CONSOR ENGINEERS, LLC  
2041 VISTA PARKWAY, SUITE 101  
WEST PALM BEACH, FLORIDA 33411  
CERTIFICATE OF AUTHORIZATION NO. 9302  
RICHARD A. HUNTER, P.E. NO. 50601

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

SHEET NO.	SHEET DESCRIPTION
S-1	STEEL SHEET PILE WALL DETAILS



CONSOR ENGINEERS.  
2041 Vista Parkway, Suite 101  
West Palm Beach, Florida 33411  
Telephone No.: (561) 253-9670  
E-mail: william.adams@consoreng.com

TRANSPORTATION PLANNING AND DESIGN

SIGNATURE SHEET

INDIAN SPRINGS CEMETERY  
SHORELINE STABILIZATION PROJECT  
PUNTA GORDA, FLORIDA 33950

FOR  
CHARLOTTE COUNTY  
PURCHASING DIVISION  
18500 MURDOCK CIRCLE, SUITE 344  
PORT CHARLOTTE, FLORIDA 33948

Revisions:

William L. Adams, P.E.  
P.E. No. 57950  
State of Florida  
CONSOR ENGINEERS.

Date: 05/20/24  
Scale: NONE  
Drawn By: FLS  
Checked By: WLA  
Project #: 12855

SHEET C1B

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

SUMMARY OF PAY ITEMS			QUANTITY TOTAL	
PAY ITEM NO.	ITEM DESCRIPTION	UNIT	PLAN	FINAL
0101-1	MOBILIZATION	LS	1	
0104-10-3	SEDIMENT BARRIER	LF	1479	
0104-12	STAKED TURBIDITY BARRIER	LF	100	
0104-11	FLOATING TURBIDITY BARRIER	LF	404	
0104-18	INLET PROTECTION SYSTEM	EA	1	
0104-7	SEDIMENT BASIN / CONTAINMENT SYSTEM	EA	6	
0110-1-1	CLEARING & GRUBBING	AC	1.00	
0120-5	CHANNEL EXCAVATION	CY	457.5	
0120-6	EMBANKMENT	CY	282.8	
0125-1	EXCAVATION FOR STRUCTURES	CY	1792.5	
0145-71	GEOSYNTHETIC REINFORCED SOIL SLOPES	SY	760	
0400 2 8	CONCRETE CLASS II, BULKHEAD	CY	30.8	
0415 1 3	REINFORCING STEEL - RETAINING WALL	LB	933	
0430-175-118	PIPE CULVERT, OPTIONAL MATERIAL, ROUND, 18"S/CD	LF	50	
0425-1-541	INLETS, DITCH BOTTOM, TYPE D, <10'	EA	1	
0455-133-3	PERMANENT SHEET PILE WALL	SF	8237	
0530-5-13	GABION BASKET	CY	291.1	
0530-3-4	RIPRAP RUBBLE, DITCH LINING	TN	796.2	
0570-1-1	PERFORMANCE TURF (SOD)	SY	2314	

NOTES:

- 1) PAYMENT FOR ALL TIME AND MATERIALS REQUIRED TO COMPLY WITH SPECIAL INSTRUCTIONS RELATED TO POTENTIAL UNMARKED GRAVE SITES, SHEET C4 SHALL BE INCLUDED UNDER THE CONTRACTOR'S LUMP SUM PRICE FOR PAY ITEM 0101-1 MOBILIZATION.
- 2) STAKED TURBIDITY BARRIER AND SEDIMENT BARRIER HAS BEEN INCLUDED FOR THE CONTRACTOR TO UTILIZE AS NEEDED AND AS APPROVED BY THE COUNTY'S CONSTRUCTION REPRESENTATIVE.



CONSOR Engineers.  
 2041 Vista Parkway, Suite 101  
 West Palm Beach, Florida 33411  
 Telephone No.: (561) 253-9670  
 E-mail: william.adams@consoreng.com

TRANSPORTATION PLANNING AND DESIGN

SUMMARY OF QUANTITIES

INDIAN SPRINGS CEMETERY  
 SHORELINE STABILIZATION PROJECT  
 PUNTA GORDA, FLORIDA 33950

FOR  
 CHARLOTTE COUNTY  
 PURCHASING DIVISION  
 18500 MURDOCK CIRCLE, SUITE 344  
 PORT CHARLOTTE, FLORIDA 33948

Revisions:

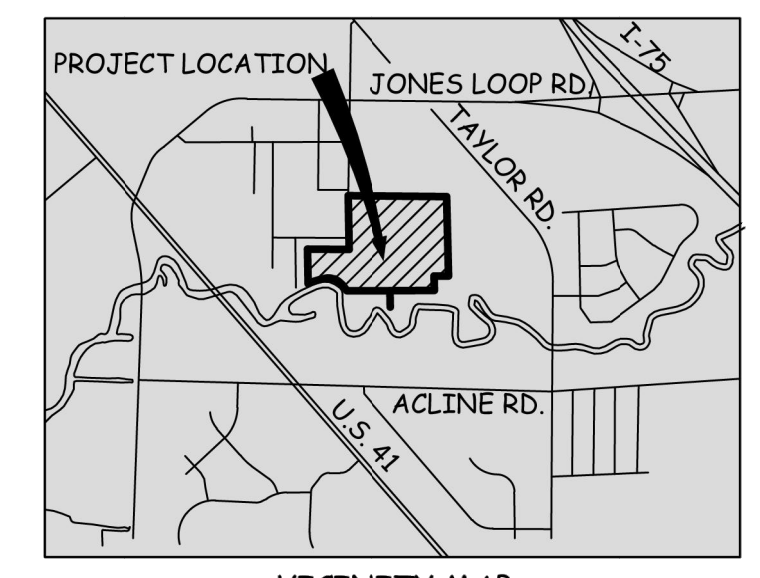
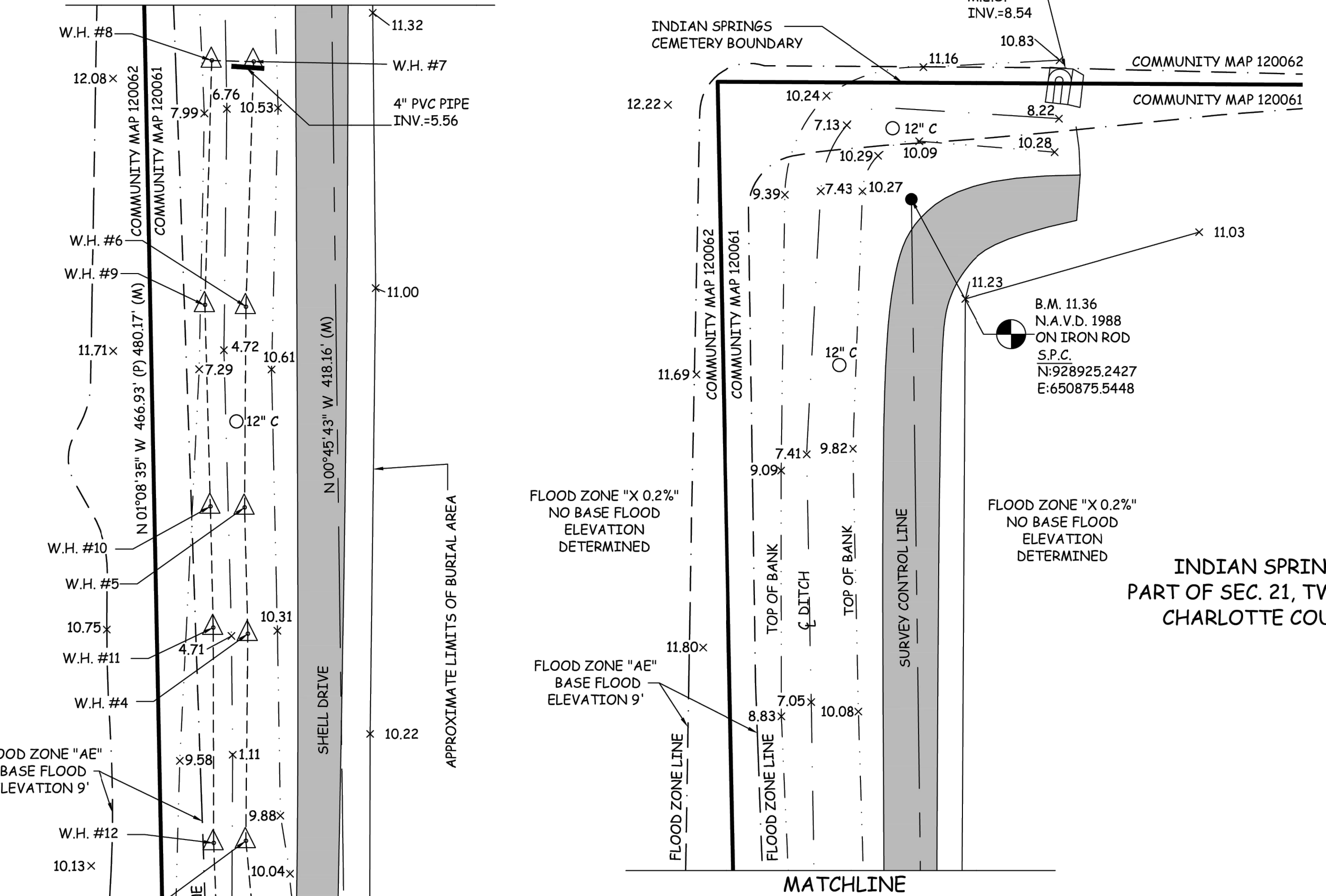
William L. Adams, P.E.  
 P.E. No. 57950  
 State of Florida  
 CONSOR Engineers.

Date: 05/20/24  
 Scale: NONE  
 Drawn By: FLS  
 Checked By: WLA  
 Project #: 12855

SHEET C1C

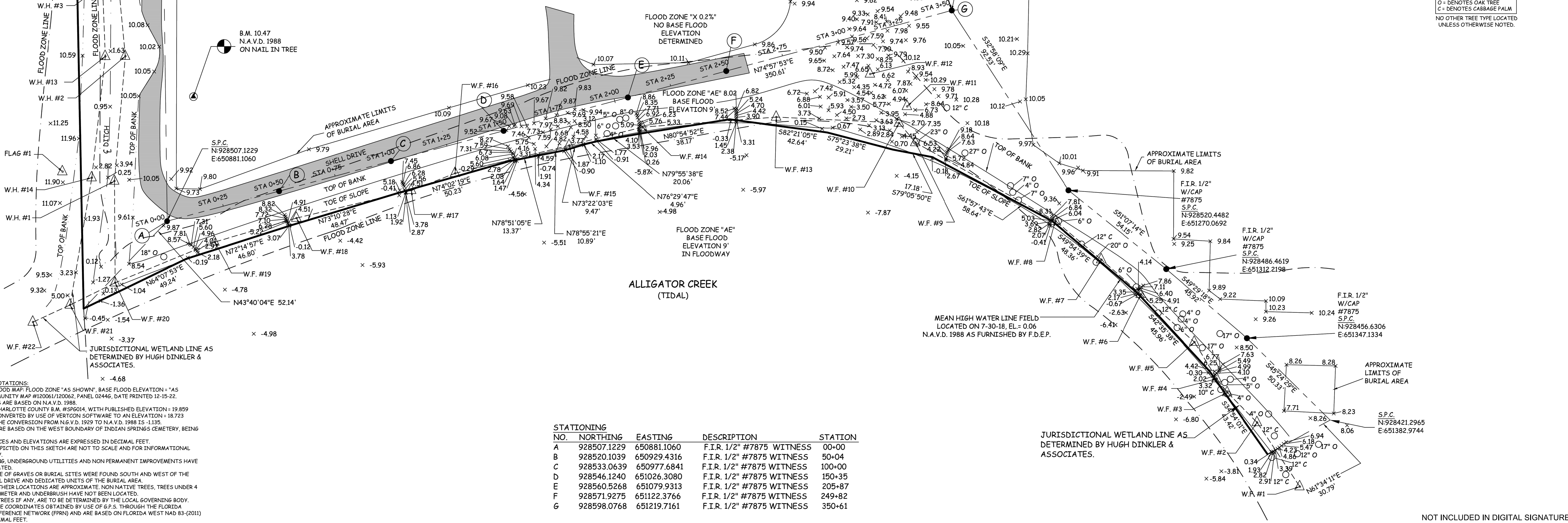
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MATCHLINE



- LEGEND:**
- P.O.C. = POINT OF COMMENCEMENT
  - P.O.B. = POINT OF BEGINNING
  - FND. = FOUND
  - S.I.R. = SET 1/2" IRON ROD WITH CAP "GEN 3"
  - F.I.R. = FOUND IRON ROD
  - F.I.P. = FOUND IRON PIPE
  - S.N. = SET NAIL AND DISK "GEN 3"
  - F.N. = FOUND NAIL
  - F.N.D. = FOUND NAIL AND DISK
  - P.C.P. = PERMANENT CONTROL POINT
  - P.R.M. = PERMANENT REFERENCE MONUMENT
  - D.H. = DRILL HOLE
  - C.M. = CONCRETE MONUMENT
  - (M) = MEASURED DATA
  - (P) = RECORD PLAT DATA
  - (C) = CALCULATED DATA
  - Δ = DELTA
  - R = RADIUS
  - CHD. = CHORD LENGTH
  - CH.B. = CHORD BEARING
  - P.O.L. = POINT ON LINE
  - R/W. = RIGHT-OF-WAY
  - F.F.E. = FINISHED FLOOR ELEVATION
  - \* = LAST DAY IN FIELD
  - D.U.E. = DRAINAGE AND UTILITY EASEMENT
  - N.G.V.D. = NATIONAL GEODETIC VERTICAL DATUM
  - N.A.V.D. = NATIONAL AMERICAN VERTICAL DATUM
  - P.S.M. = PROFESSIONAL SURVEYOR AND MAPPER
  - L.P. = LIGHT POLE
  - C.E. = COVERED ENTRY
  - C. = CONCRETE
  - P. = PAVER BRICKS
  - P.C. = POINT OF CURVATURE
  - P.I. = POINT OF INTERSECTION
  - P.T. = POINT OF TANGENCY
  - CL. = CENTERLINE
  - W.M. = WATER METER
  - W.E. = WELL EQUIPMENT
  - P.E. = POOL EQUIPMENT
  - A.T.O.S. = AT TIME OF SURVEY
  - E.O.W. = EDGE OF WATER
  - T.O.B. = TOP OF BANK
  - O.H.U. = OVERHEAD UTILITIES
  - U.P. = UTILITY POLE
  - G.W. = GUY WIRE
  - P.S.B. = PHONE SERVICE BOX
  - P.S.V. = PHONE SERVICE VAULT
  - M.H. = MANHOLE
  - F.H. = FIRE HYDRANT
  - C.B. = CATCH BASIN
  - E.S. = ELECTRIC SERVICE
  - S.V. = SEWER VALVE
  - W.V. = WATER VALVE
  - W/CAP. = WITH CAP
  - EL. = ELEVATION
  - L.B. = LICENSED BUSINESS
  - CONC. = CONCRETE
  - 8.00' = SPOT ELEVATION
  - = DENOTES BOUNDARY LINE WHERE APPLICABLE

**INDIAN SPRINGS CEMETERY  
PART OF SEC. 21, TWP. 41 S., RGE. 23 E.  
CHARLOTTE COUNTY, FLORIDA**



STATIONING NO.	NORTHING	EASTING	DESCRIPTION	STATION
A	928507.1229	650881.1060	F.I.R. 1/2" #7875 WITNESS	00+00
B	928520.1039	650929.4316	F.I.R. 1/2" #7875 WITNESS	50+04
C	928533.0639	650977.6841	F.I.R. 1/2" #7875 WITNESS	100+00
D	928546.1240	651026.3080	F.I.R. 1/2" #7875 WITNESS	150+35
E	928560.5268	651079.9313	F.I.R. 1/2" #7875 WITNESS	205+87
F	928571.9275	651122.3766	F.I.R. 1/2" #7875 WITNESS	249+82
G	928598.0768	651219.7161	F.I.R. 1/2" #7875 WITNESS	350+61

- SURVEYOR'S NOTATIONS:**
- 1) PER FEMA FLOOD MAP, FLOOD ZONE "AS SHOWN", BASE FLOOD ELEVATION = "AS SHOWN", COMMUNITY MAP #120061/120062, PANEL 02446, DATE PRINTED 12-15-22.
  - 2) ELEVATIONS ARE BASED ON N.A.V.D. 1988.
  - 3) BASE B.M., CHARLOTTE COUNTY B.M. #695014, WITH PUBLISHED ELEVATION = 19.859 N.G.V.D. 1929, CONVERTED BY USE OF VERTCON SOFTWARE TO AN ELEVATION = 18.723 N.A.V.D. 1988. THE CONVERSION FROM N.G.V.D. 1929 TO N.A.V.D. 1988 IS -1.135.
  - 4) BEARINGS ARE BASED ON THE WEST BOUNDARY OF INDIAN SPRINGS CEMETERY, BEING N01°08'35"W.
  - 5) ALL DISTANCES AND ELEVATIONS ARE EXPRESSED IN DECIMAL FEET.
  - 6) SYMBOLS DEPICTED ON THIS SKETCH ARE NOT TO SCALE AND FOR INFORMATIONAL PURPOSES ONLY.
  - 7) LANDSCAPING, UNDERGROUND UTILITIES AND NON PERMANENT IMPROVEMENTS HAVE NOT BEEN LOCATED.
  - 8) NO EVIDENCE OF GRAVES OR BURIAL SITES WERE FOUND SOUTH AND WEST OF THE DEPICTED SHELL DRIVE AND DEDICATED UNITS OF THE BURIAL AREA.
  - 9) TREES AND THEIR LOCATIONS ARE APPROXIMATE. NON NATIVE TREES, TREES UNDER 4 INCHES IN DIAMETER AND UNDERBRUSH HAVE NOT BEEN LOCATED.
  - 10) HERITAGE TREES IF ANY, ARE TO BE DETERMINED BY THE LOCAL GOVERNING BODY.
  - 11) STATE PLANE COORDINATES OBTAINED BY USE OF 63 S. THROUGH THE FLORIDA PERMANENT REFERENCE NETWORK (PRN) AND ARE BASED ON FLORIDA WEST NAD 83-(2011) DATUM IN DECIMAL FEET.

JURISDICTIONAL WETLAND LINE AS DETERMINED BY HUGH DINKLER & ASSOCIATES.

NOT INCLUDED IN DIGITAL SIGNATURE

**Gen<sup>3</sup> LAND SURVEYING INC.**  
17840 TOLEDO BLADE BLVD., SUITE B, PORT CHARLOTTE, FL 33948  
info@gen3survey.com  
(941)-629-6801 L.B. # 8460

NOTE: THE UNDERSIGNED AND GEN 3 LAND SURVEYING, INC. MAKE NO WARRANTIES, GUARANTEES OR REPRESENTATIONS REGARDING INFORMATION SHOWN HEREON PERTAINING TO EASEMENTS, RIGHT-OF-WAYS, SETBACK LINES, AGREEMENTS, RESERVATIONS, AND OTHER SIMILAR MATTERS, EXCEPT PLATTED EASEMENTS WHERE APPLICABLE. DETERMINATION OR RESEARCH FOR THE ABILITY OR INABILITY TO USE THIS PARCEL OF LAND FOR ANY PURPOSE IS NOT INCLUDED IN THIS SURVEY. THE SURVEY SKETCH AS SHOWN WAS MADE WITHOUT BENEFIT OF A TITLE REPORT UNLESS NOTED OTHERWISE. THIS SKETCH IS NOT VALID UNLESS IT BEARS AN ORIGINAL SIGNATURE AND AN EMBOSSED SURVEYOR'S SEAL. ANY ADDITIONS AND/OR DELETIONS TO THIS SKETCH, OR DUPLICATION OF THIS SKETCH, IS PROHIBITED WITHOUT THE WRITTEN CONSENT OF THE UNDERSIGNED. THIS SURVEY IS PREPARED SPECIFICALLY FOR THE PARTY OR PARTIES LISTED ABOVE. USE OF THIS SURVEY BY OTHERS FOR LENDING, DESIGN, CONSTRUCTION, OR ANY OTHER REASON, WILL BE AT THE SOLE RISK OF THE USER. WHERE APPLICABLE, FLOOD ZONE INFORMATION HAS BEEN DETERMINED FROM THE F.E.M.A. FLOOD INSURANCE RATE MAPS AS A COURTESY TO THE CLIENT. IT IS THE RESPONSIBILITY OF THE CLIENT TO VERIFY THE FLOOD ZONE INFORMATION AND ANY APPLICABLE BASE FLOOD ELEVATION REQUIREMENTS WITH THE LOCAL GOVERNING BODY AND THE FEDERAL EMERGENCY MANAGEMENT AGENCY FOR A FINAL DETERMINATION. WHERE APPLICABLE, SPOT ELEVATIONS AND THEIR LOCATIONS ARE APPROXIMATE. UNLESS NOTED OTHERWISE, ONLY MINIMUM TOPOGRAPHY HAS BEEN OBTAINED. TOPOGRAPHY BETWEEN SPOT ELEVATIONS MAY VARY GREATLY. THIS SHOULD BE CONSIDERED IF SPOT ELEVATIONS ARE TO BE USED FOR DESIGN AND FILL CALCULATION PURPOSES. ADDITIONAL TOPOGRAPHY MAY BE NECESSARY. JURISDICTIONAL WETLANDS IF ANY HAVE NOT BEEN DETERMINED.

**SPECIFIC PURPOSE SURVEY WITH TOPOGRAPHY PREPARED FOR:  
AMERICAN CONSULTING ENGINEERS OF FLORIDA, LLC**

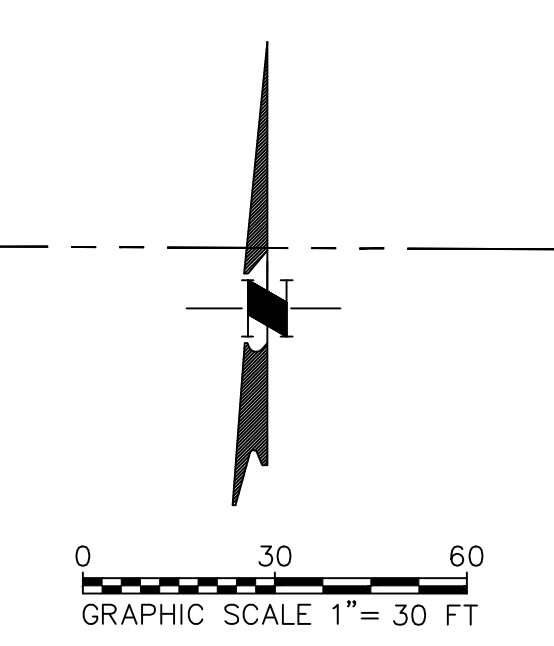
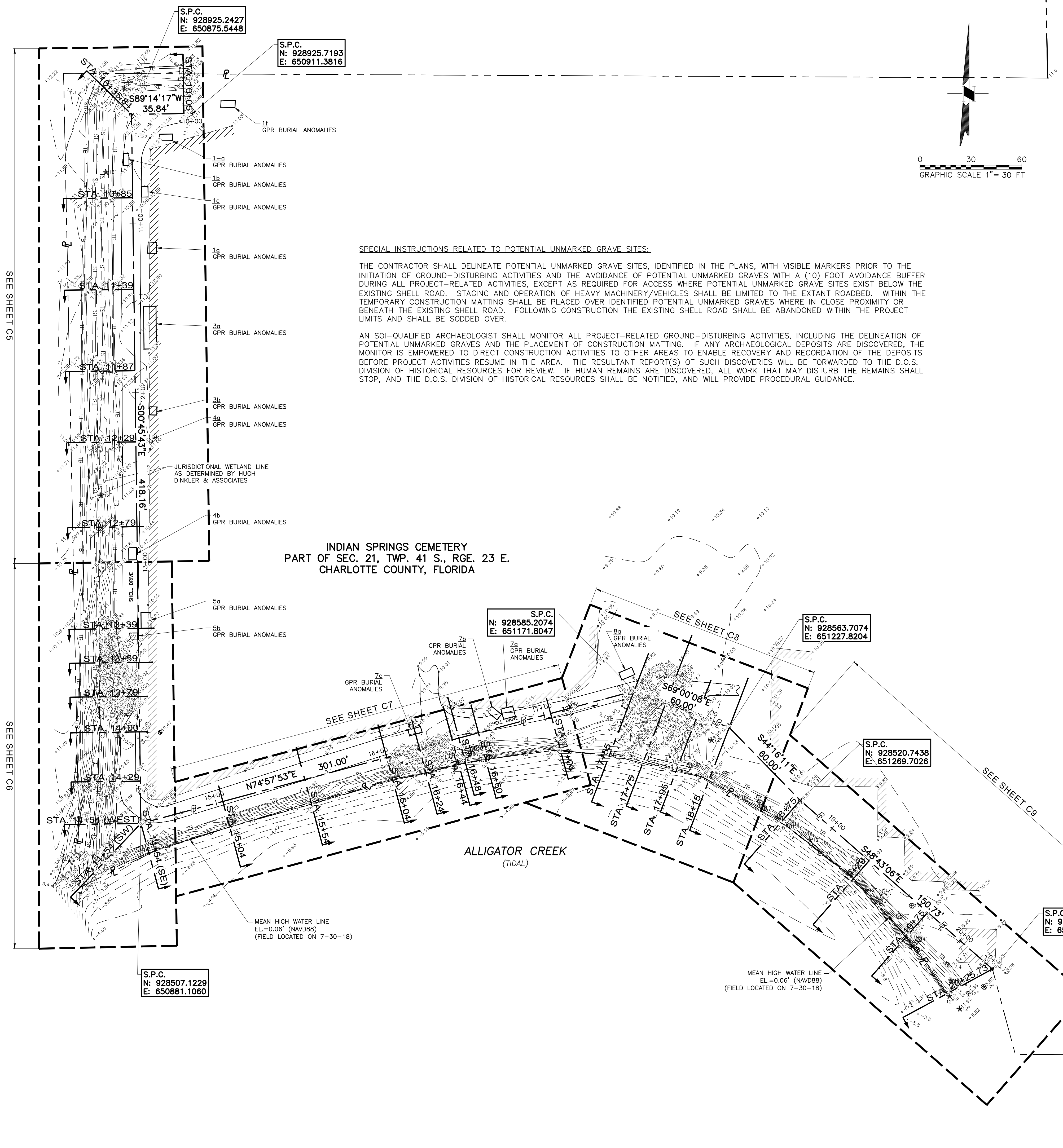
REVISION:	DATE:

I HEREBY CERTIFY THAT THIS SURVEY WAS MADE UNDER MY RESPONSIBLE CHARGE AND MEETS THE "STANDARDS OF PRACTICE FOR SURVEYS" AS SET FORTH BY THE FLORIDA BOARD OF PROFESSIONAL SURVEYORS AND MAPPERS IN CHAPTER 53-17, FLORIDA ADMINISTRATIVE CODE, PURSUANT TO SECTION 472.027, FLORIDA STATUTES.  
**R.J. Strickland, Jr., P.S.M.** Florida Registration #6144  
Date: 2024.04.22 08:52:42 -04'00'  
PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED UNLESS THE SIGNATURE AUTHENTICATION CODE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

**SHEET C2**  
24-00



 CONSOR Engineers. 2041 Vista Parkway, Suite 101 West Palm Beach, Florida 33411 Telephone No.: (561) 253-9870 E-mail: William.adams@consoreng.com	
AERIAL	INDIAN SPRINGS CEMETERY SHORELINE STABILIZATION PROJECT PUNTA GORDA, FLORIDA 33950
FOR CHARLOTTE COUNTY PURCHASING DIVISION 18500 MURDOCK CIRCLE, SUITE 344 PORT CHARLOTTE, FLORIDA 33948	THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.
Revisions:	William L. Adams, P.E. P.E. No. 57950 State of Florida CONSOR Engineers.
Date:	05/20/24
Scale:	1"=50'
Drawn By:	FLS
Checked By:	WLA
Project #:	12855
SHEET C3	



**SPECIAL INSTRUCTIONS RELATED TO POTENTIAL UNMARKED GRAVE SITES:**

THE CONTRACTOR SHALL DELINEATE POTENTIAL UNMARKED GRAVE SITES, IDENTIFIED IN THE PLANS, WITH VISIBLE MARKERS PRIOR TO THE INITIATION OF GROUND-DISTURBING ACTIVITIES AND THE AVOIDANCE OF POTENTIAL UNMARKED GRAVES WITH A (10) FOOT AVOIDANCE BUFFER DURING ALL PROJECT-RELATED ACTIVITIES, EXCEPT AS REQUIRED FOR ACCESS WHERE POTENTIAL UNMARKED GRAVE SITES EXIST BELOW THE EXISTING SHELL ROAD. STAGING AND OPERATION OF HEAVY MACHINERY/VEHICLES SHALL BE LIMITED TO THE EXISTING ROADBED. WITHIN THE TEMPORARY CONSTRUCTION MATTING SHALL BE PLACED OVER IDENTIFIED POTENTIAL UNMARKED GRAVES WHERE IN CLOSE PROXIMITY OR BENEATH THE EXISTING SHELL ROAD. FOLLOWING CONSTRUCTION THE EXISTING SHELL ROAD SHALL BE ABANDONED WITHIN THE PROJECT LIMITS AND SHALL BE SODDED OVER.

AN SOI-QUALIFIED ARCHAEOLOGIST SHALL MONITOR ALL PROJECT-RELATED GROUND-DISTURBING ACTIVITIES, INCLUDING THE DELINEATION OF POTENTIAL UNMARKED GRAVES AND THE PLACEMENT OF CONSTRUCTION MATTING. IF ANY ARCHAEOLOGICAL DEPOSITS ARE DISCOVERED, THE MONITOR IS EMPOWERED TO DIRECT CONSTRUCTION ACTIVITIES TO OTHER AREAS TO ENABLE RECOVERY AND RECORDATION OF THE DEPOSITS BEFORE PROJECT ACTIVITIES RESUME IN THE AREA. THE RESULTANT REPORT(S) OF SUCH DISCOVERIES WILL BE FORWARDED TO THE D.O.S. DIVISION OF HISTORICAL RESOURCES FOR REVIEW. IF HUMAN REMAINS ARE DISCOVERED, ALL WORK THAT MAY DISTURB THE REMAINS SHALL STOP, AND THE D.O.S. DIVISION OF HISTORICAL RESOURCES SHALL BE NOTIFIED, AND WILL PROVIDE PROCEDURAL GUIDANCE.

INDIAN SPRINGS CEMETERY  
PART OF SEC. 21, TWP. 41 S., RGE. 23 E.  
CHARLOTTE COUNTY, FLORIDA

GPR BURIAL ANOMALIES LOCATIONS					
NO. LOC.		SPC			
1a	NE	N: 928913.6049 E: 650893.7110	5a	NE	N: 928631.6663 E: 650886.9900
	SE	N: 928909.6985 E: 650899.7409		SE	N: 928622.3327 E: 650887.0837
	NW	N: 928913.5432 E: 650891.8960		NW	N: 928631.6200 E: 650881.1296
	SW	N: 928909.6368 E: 650891.9269		SW	N: 928622.2864 E: 650881.2032
1b	NE	N: 928902.2888 E: 650874.0118	5b	NE	N: 928619.4481 E: 650879.0546
	SE	N: 928894.9952 E: 650874.0694		SE	N: 928615.8666 E: 650879.0829
	NW	N: 928902.2634 E: 650870.7992		NW	N: 928619.4121 E: 650874.4972
	SW	N: 928894.9699 E: 650870.8568		SW	N: 928615.8306 E: 650874.5255
1c	NE	N: 928882.6672 E: 650885.2589	7a	NE	N: 928576.3793 E: 651100.2169
	SE	N: 928876.5079 E: 650885.3075		SE	N: 928570.4269 E: 651101.7990
	NW	N: 928882.5379 E: 650881.5468		NW	N: 928574.5347 E: 651093.2767
	SW	N: 928876.4786 E: 650881.5954		SW	N: 928568.5823 E: 651094.8587
1f	NE	N: 928933.3063 E: 650936.7101	7b	NE	N: 928571.4386 E: 651093.6166
	SE	N: 928929.1369 E: 650936.5346		SE	N: 928568.2386 E: 651090.9938
	NW	N: 928933.6583 E: 650928.3462		NW	N: 928576.1212 E: 651087.9034
	SW	N: 928929.4889 E: 650928.1707		SW	N: 928572.9212 E: 651085.2807
1g	NE	N: 928849.7273 E: 650890.4577	7c	NE	N: 928564.2718 E: 651045.8520
	SE	N: 928843.2114 E: 650890.1510		SE	N: 928560.9330 E: 651046.8352
	NW	N: 928849.9677 E: 650885.3523		NW	N: 928562.1024 E: 651038.4850
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3a	NE	N: 928812.1408 E: 650889.9945	8a	NE	N: 928599.1945 E: 651170.3565
	SE	N: 928786.9280 E: 650890.1935		SE	N: 928594.9434 E: 651172.1575
	NW	N: 928812.0833 E: 650882.7010		NW	N: 928595.9871 E: 651162.7846
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	SE	N: 928747.9269 E: 650890.44.72		SE	N: 928731.9938 E: 650887.8051
	NW	N: 928752.5163 E: 650886.2563		NW	N: 928733.8338 E: 650884.4911
	SW	N: 928748.0318 E: 650886.1398		SW	N: 928731.9678 E: 650884.5058
4b	NE	N: 928669.7243 E: 650878.4902	4b	NE	N: 928662.5618 E: 650878.5467
	SE	N: 928662.5618 E: 650878.5467		SE	N: 928669.6883 E: 650873.9320
	NW	N: 928669.6883 E: 650873.9320		SW	N: 928662.5255 E: 650873.9886
	SW	N: 928662.5255 E: 650873.9886			

**LEGEND**

- PROPERTY LINE
- CONSTRUCTION BASELINE
- BENCH MARK BM/TBM
- EXISTING SHELL DRIVE
- APPROXIMATE LIMITS OF BURIAL AREA
- EXISTING TOE OF SLOPE
- EXISTING TOP OF BANK
- EXISTING ELEVATION
- STATE PLANE COORDINATES
- NORTH AMERICAN VERTICAL DATUM OF 1988

OVERALL EXISTING CONDITIONS

INDIAN SPRINGS CEMETERY  
SHORELINE STABILIZATION PROJECT  
PUNTA GORDA, FLORIDA 33950

FOR

CHARLOTTE COUNTY  
PURCHASING DIVISION  
18500 MURDOCK CIRCLE, SUITE 344  
PORT CHARLOTTE, FLORIDA 33948

Revisions:

Date:	05/20/24
Scale:	1"=30'
Drawn By:	FLS
Checked By:	WLA
Project #:	12855

**SHEET C4**

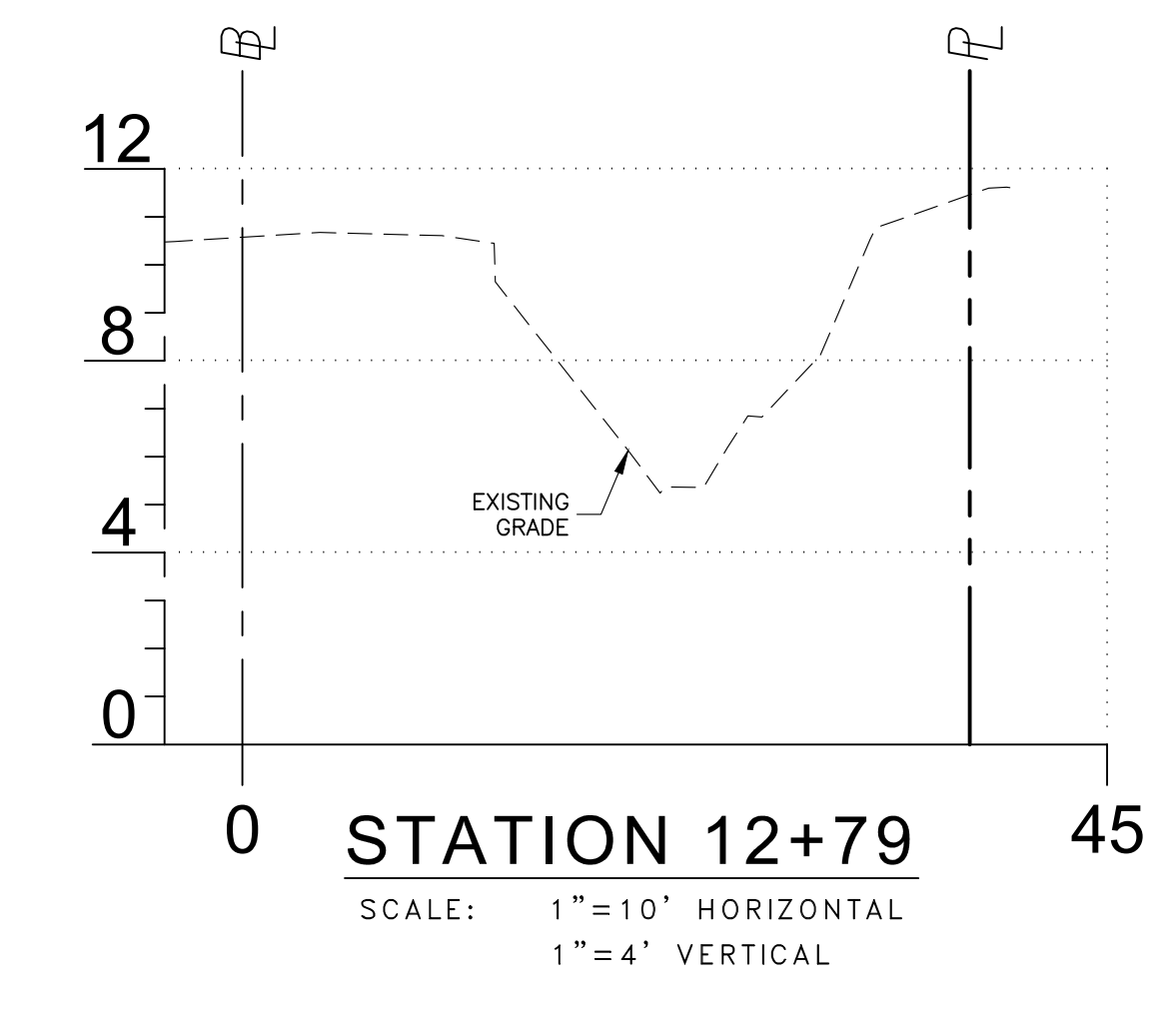
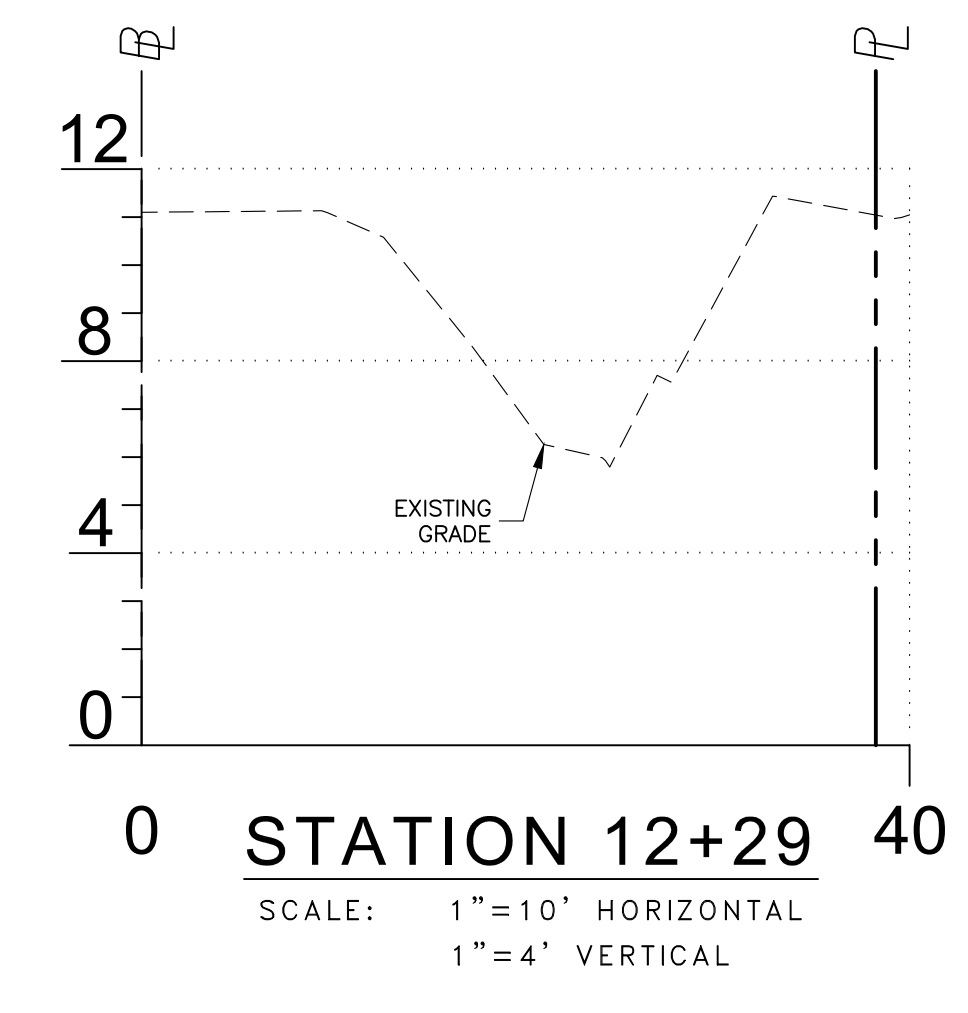
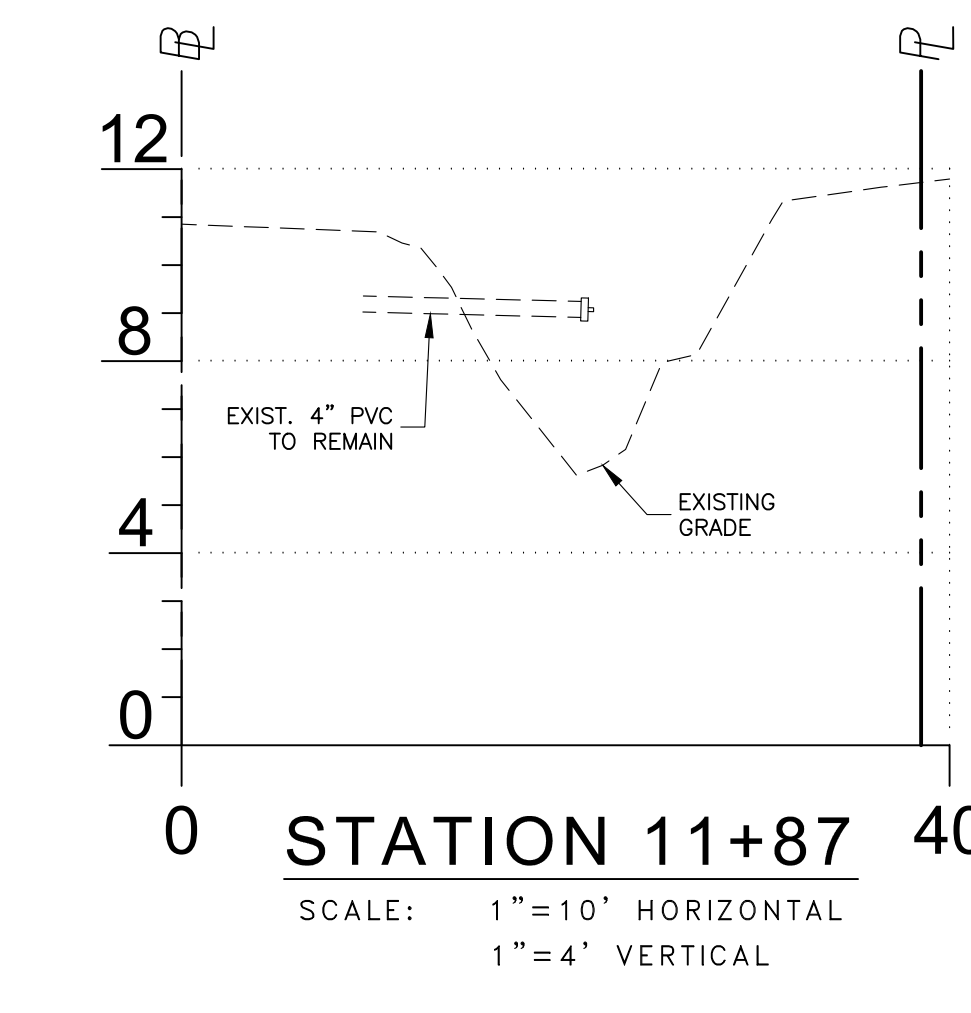
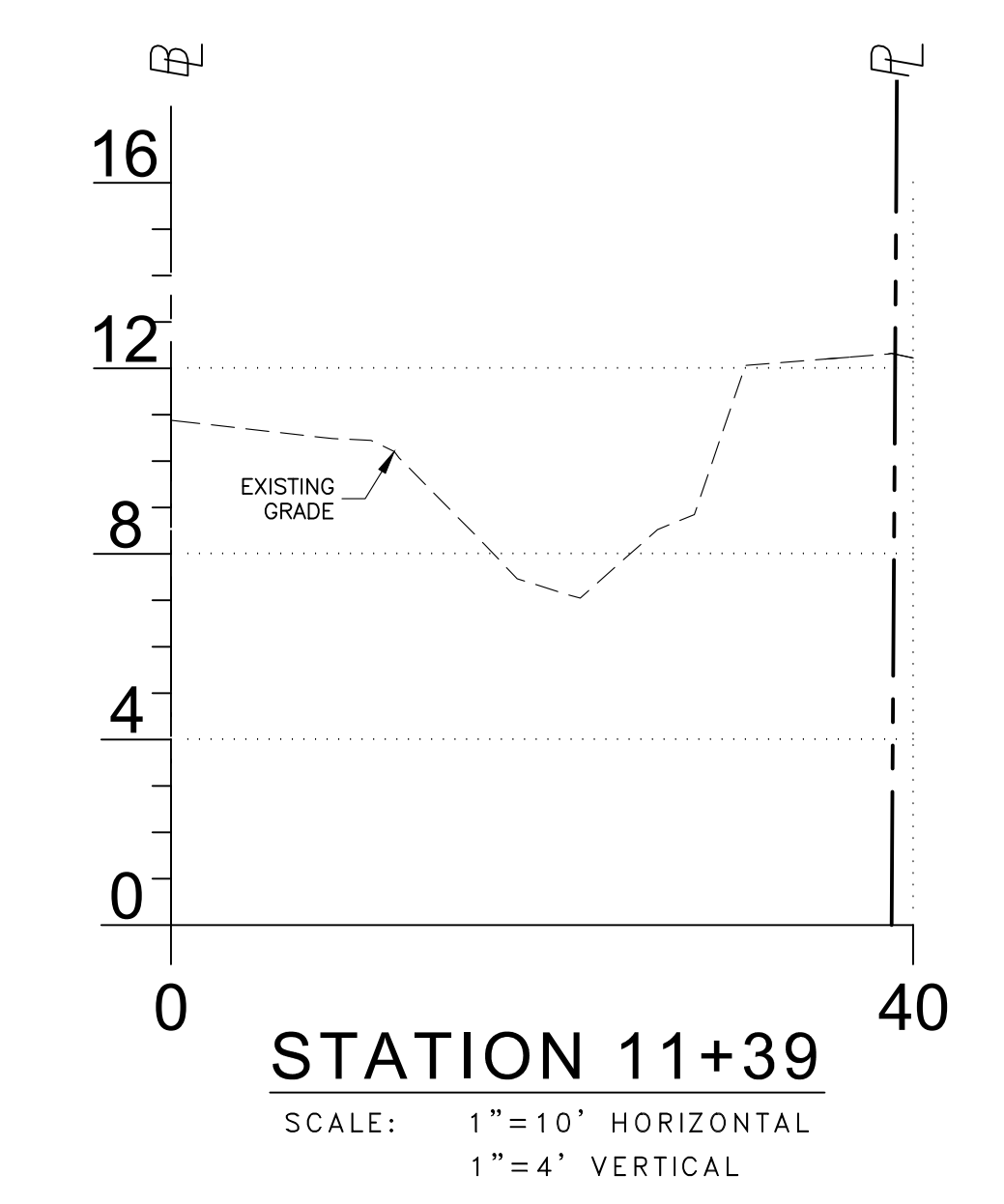
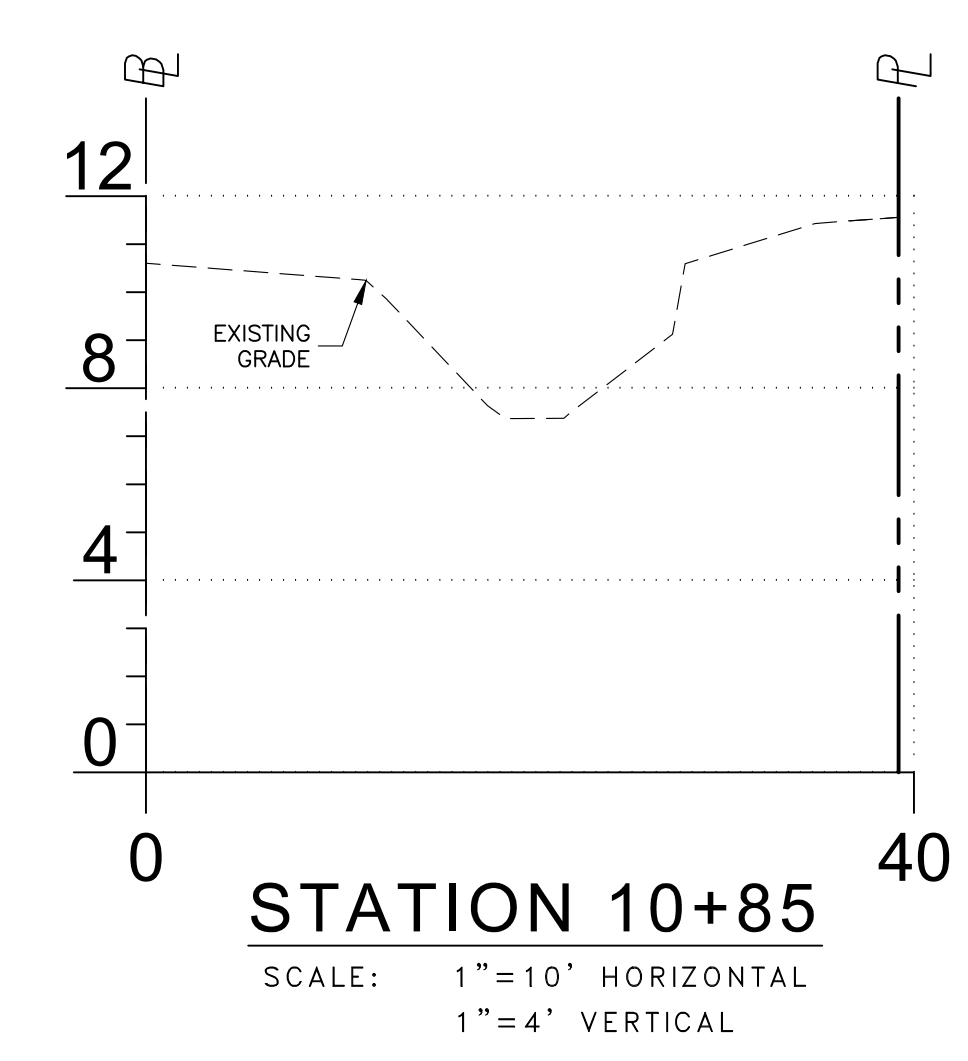
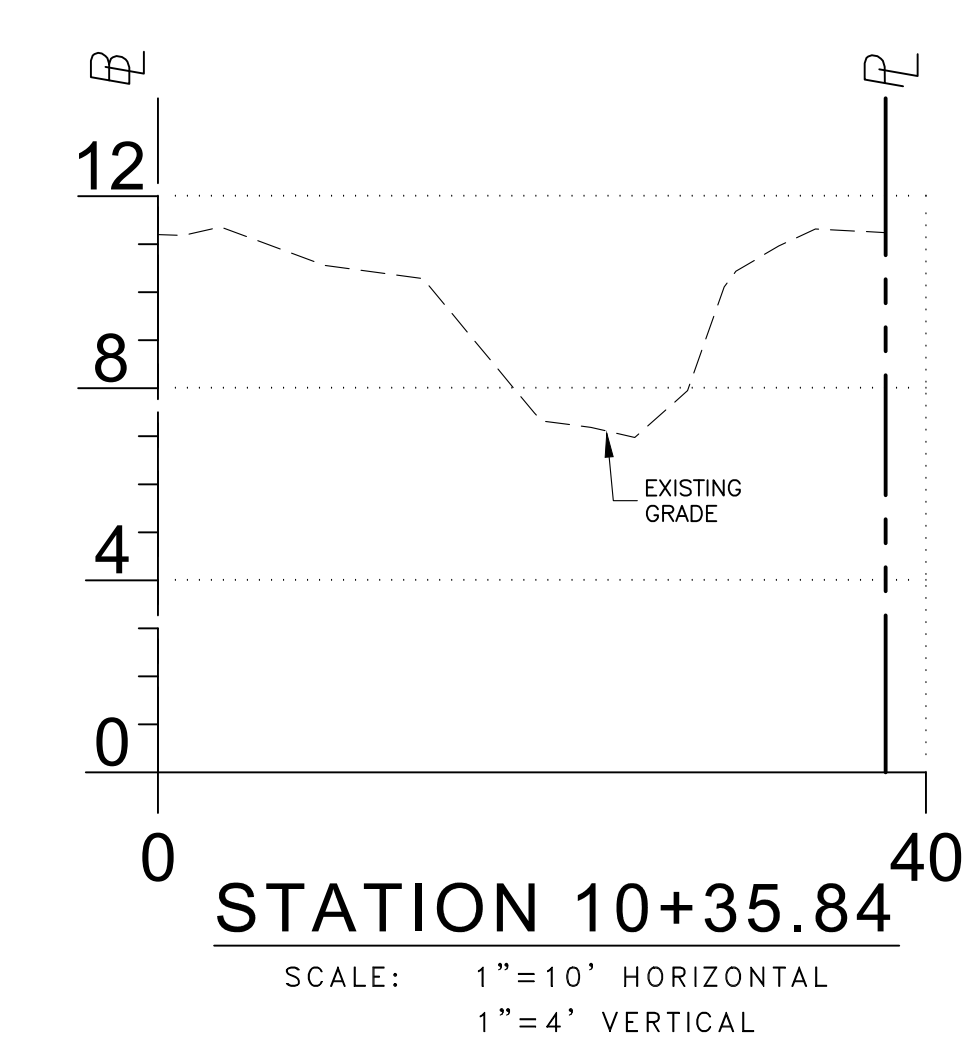
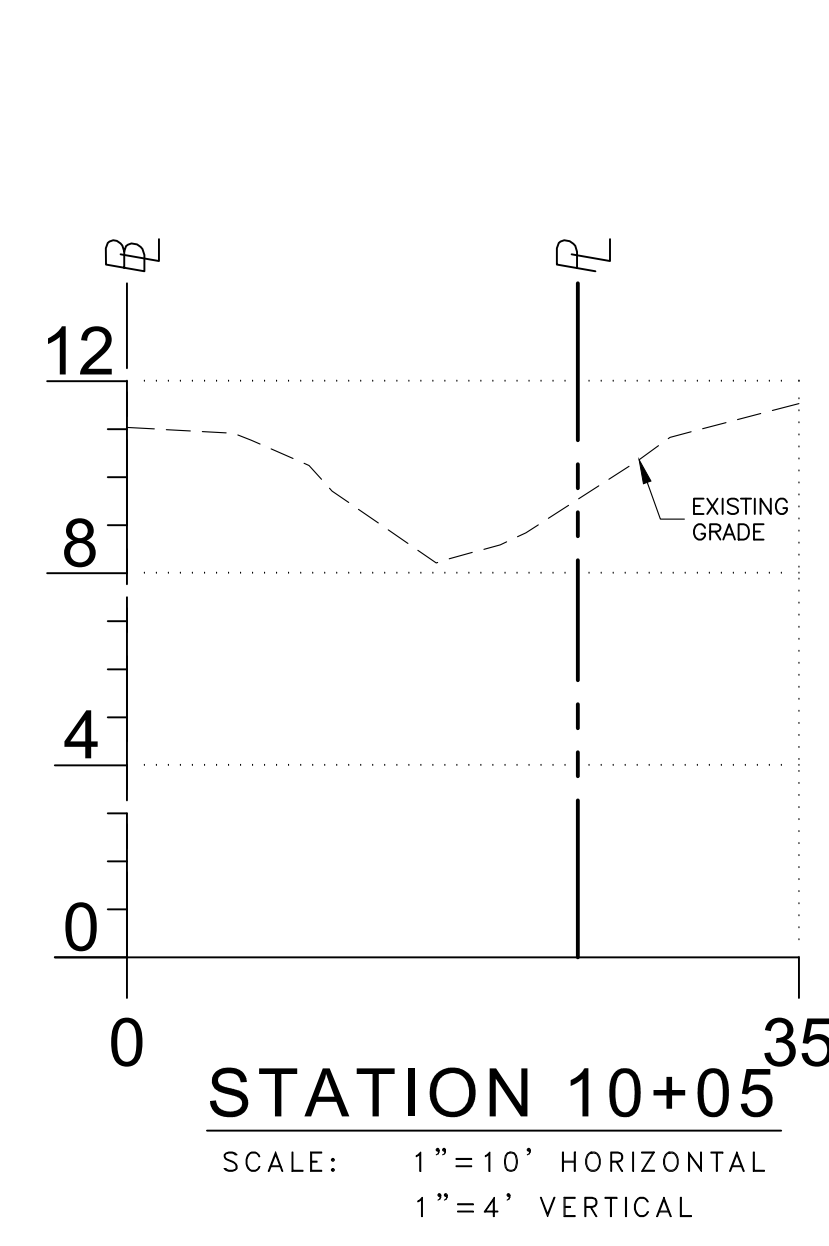
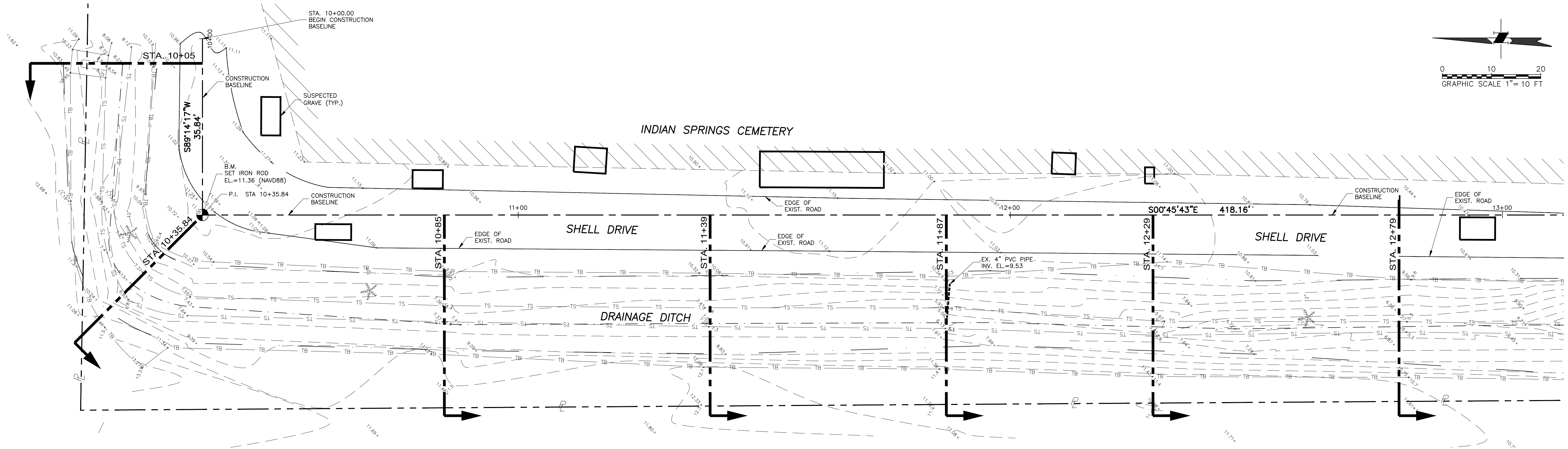
**consor**

CONSOR ENGINEERS

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E-mail: william.adams@consoreng.com

TRANSPORTATION PLANNING AND DESIGN

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- LEGEND**
- PROPERTY LINE
  - BENCH MARK BM/TBM
  - EXISTING SHELL DRIVE
  - APPROXIMATE LIMITS OF BURIAL AREA
  - EXISTING TOE OF SLOPE
  - EXISTING TOP OF BANK
  - EXISTING ELEVATION

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TRANSPORTATION PLANNING AND DESIGN

**EXISTING CONDITIONS**

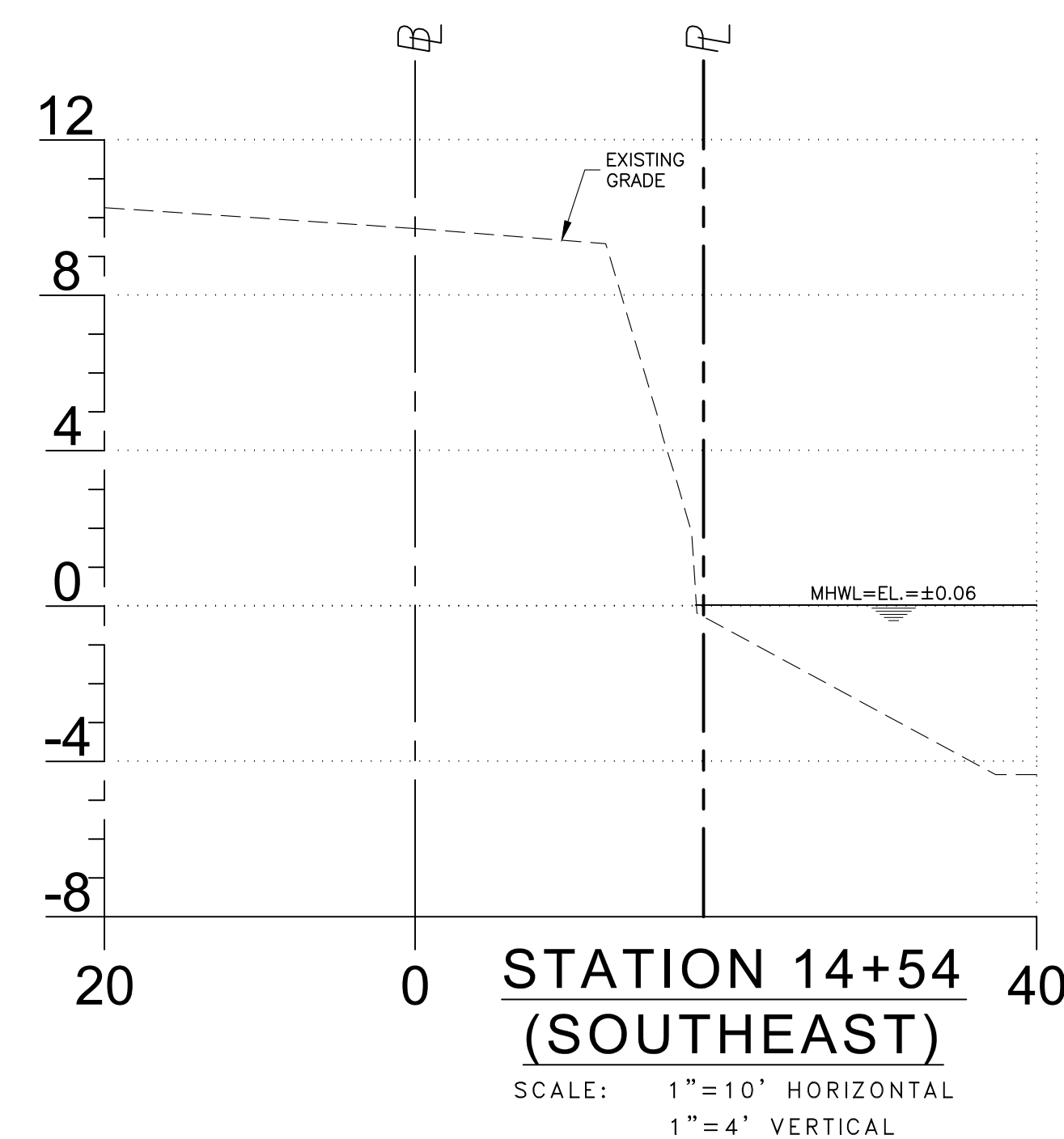
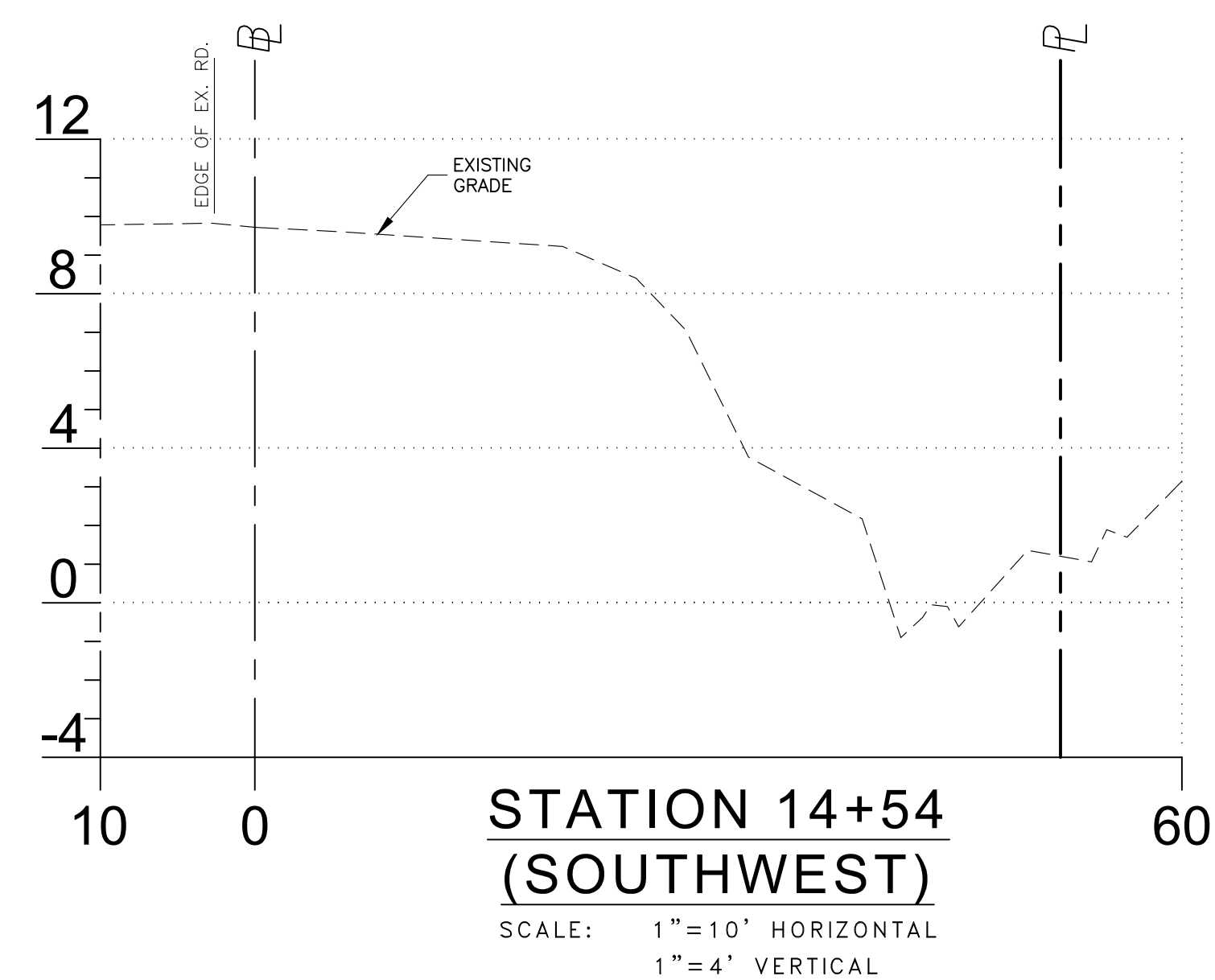
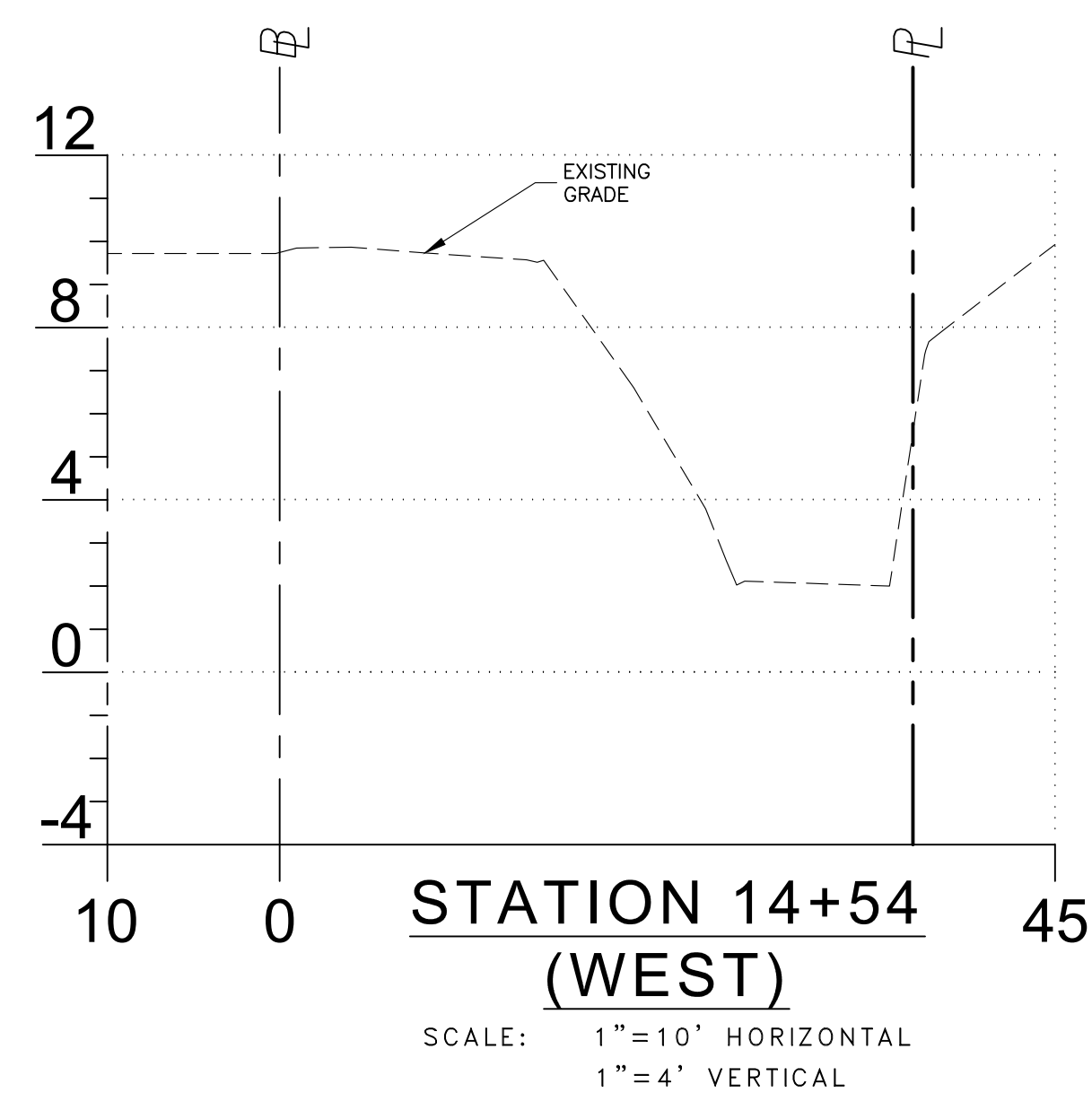
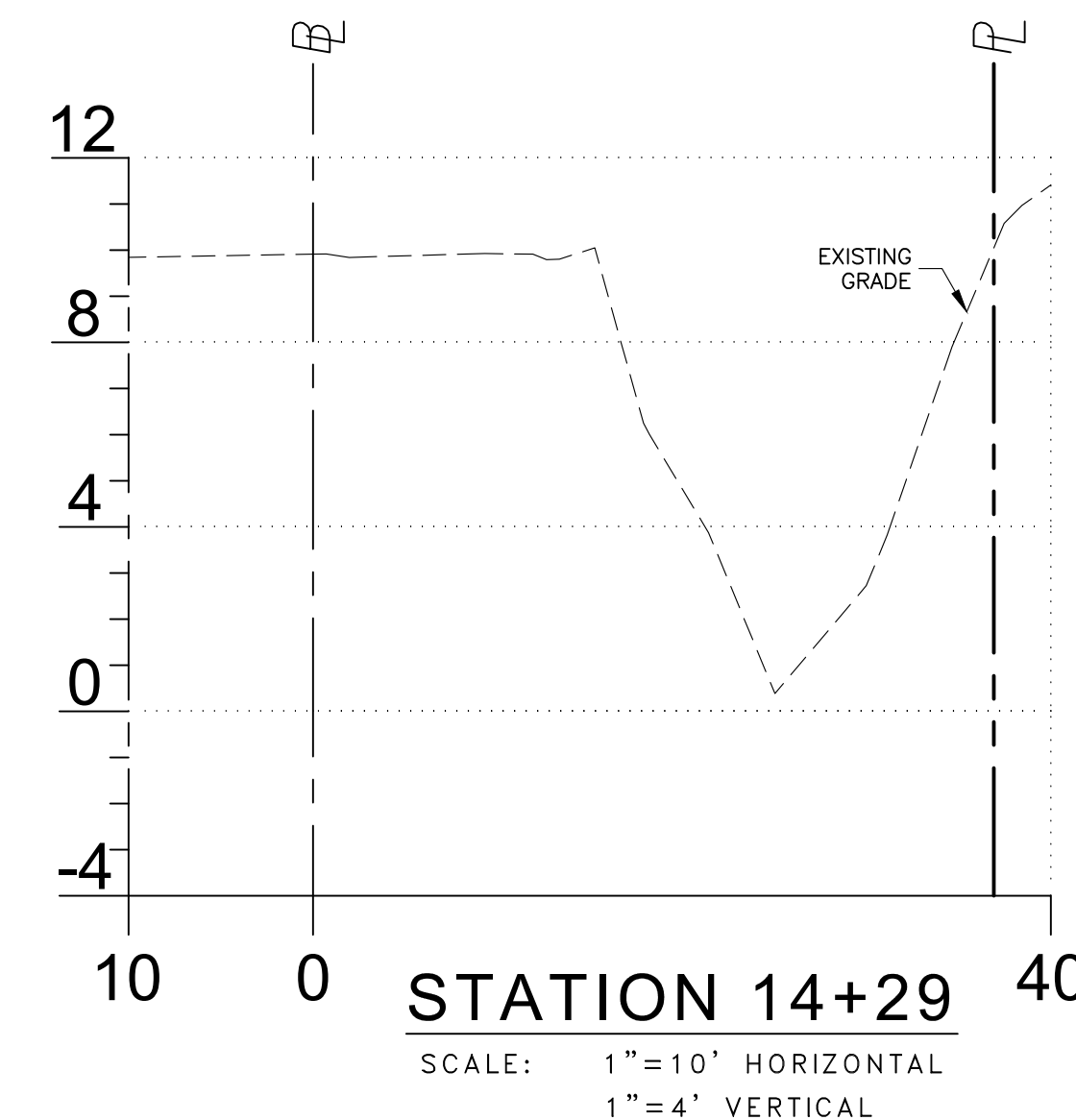
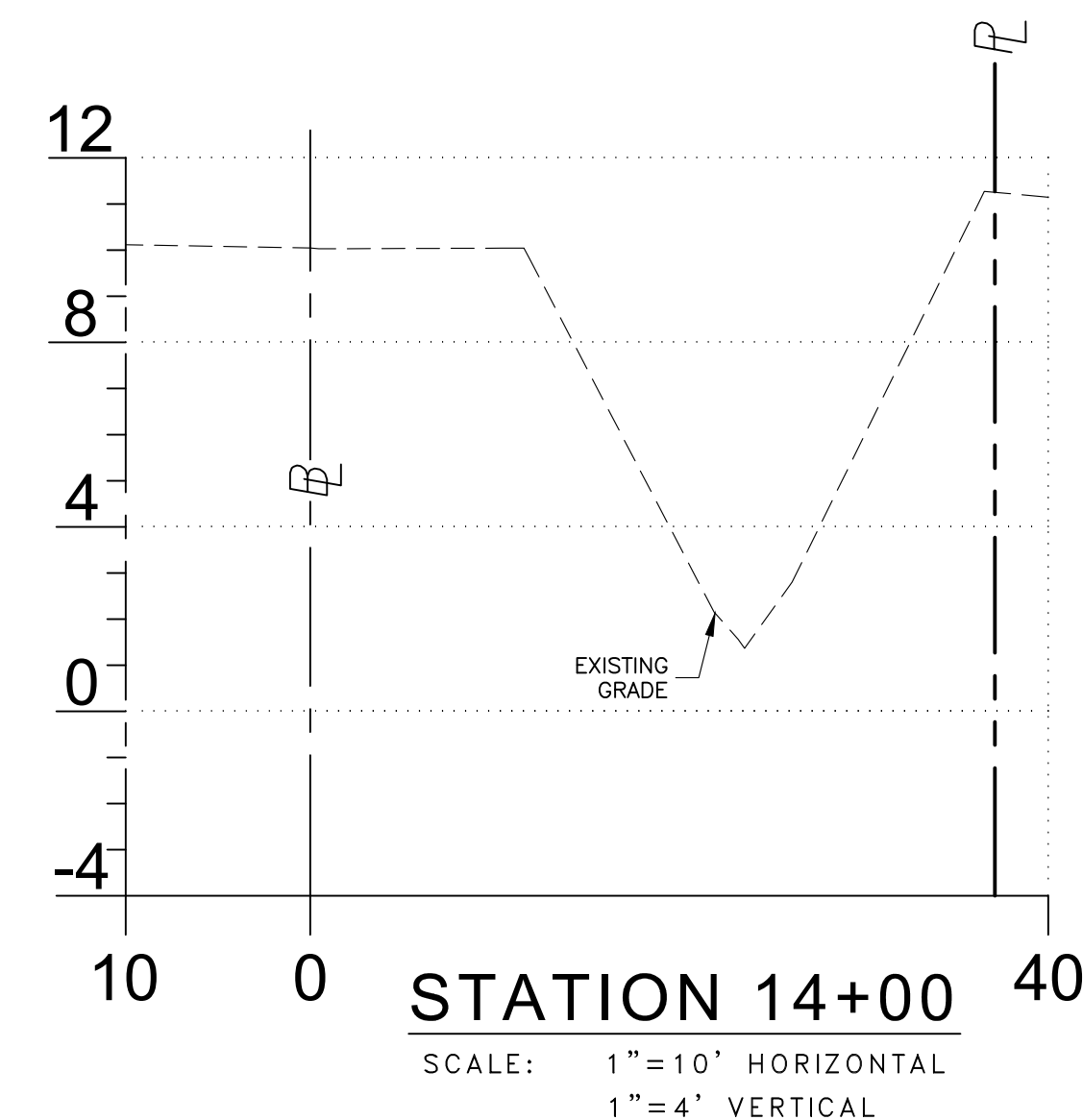
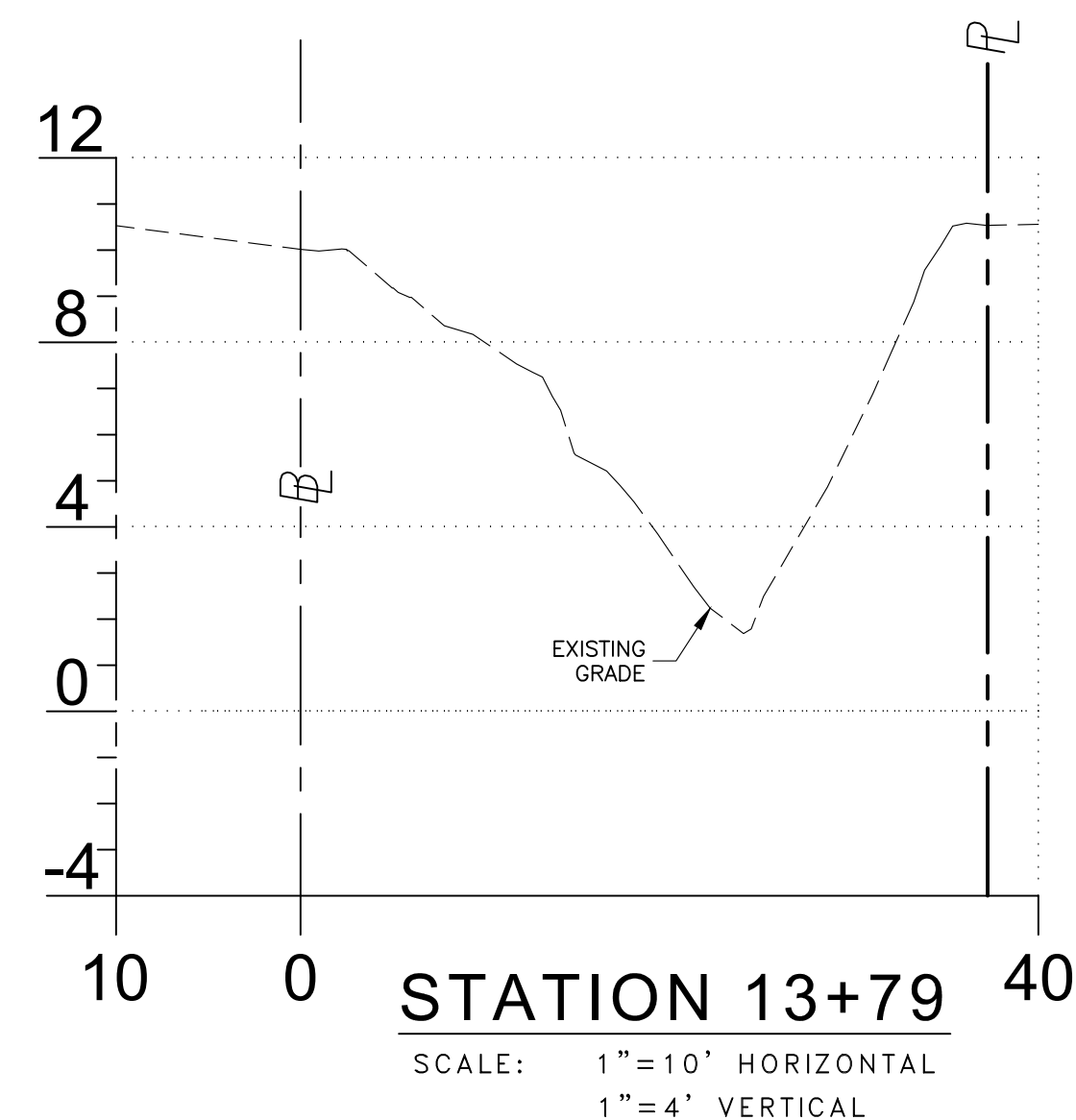
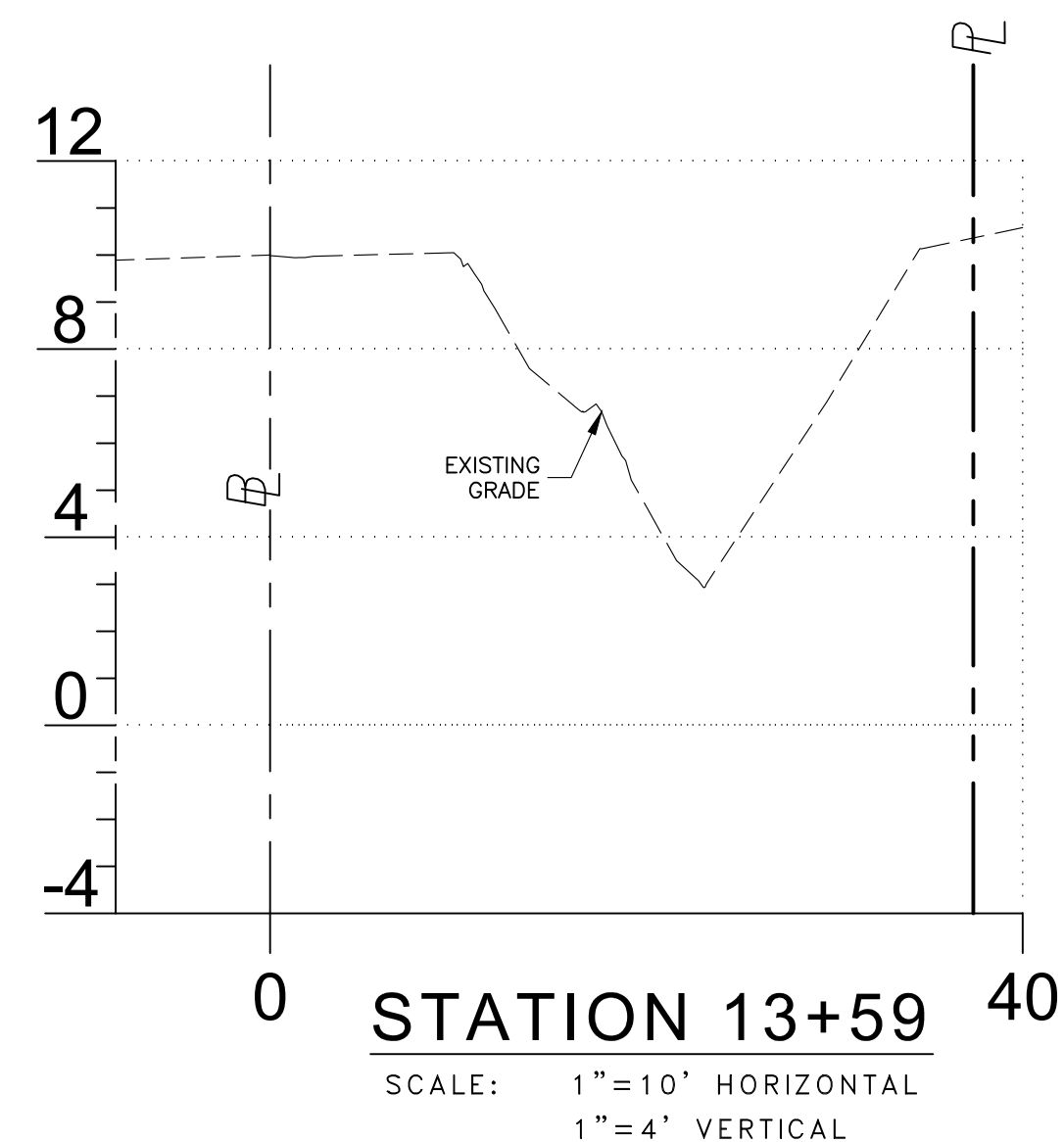
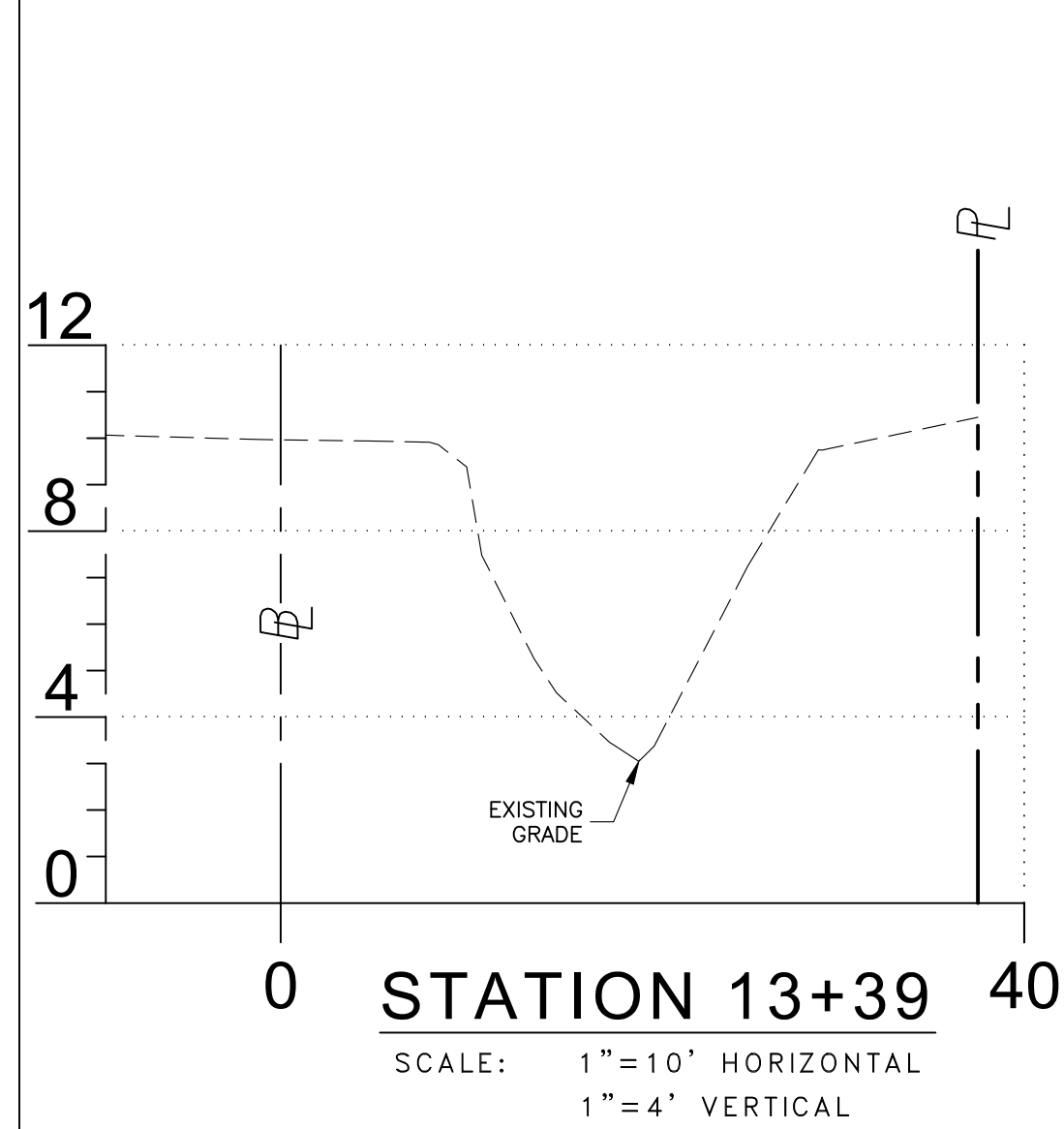
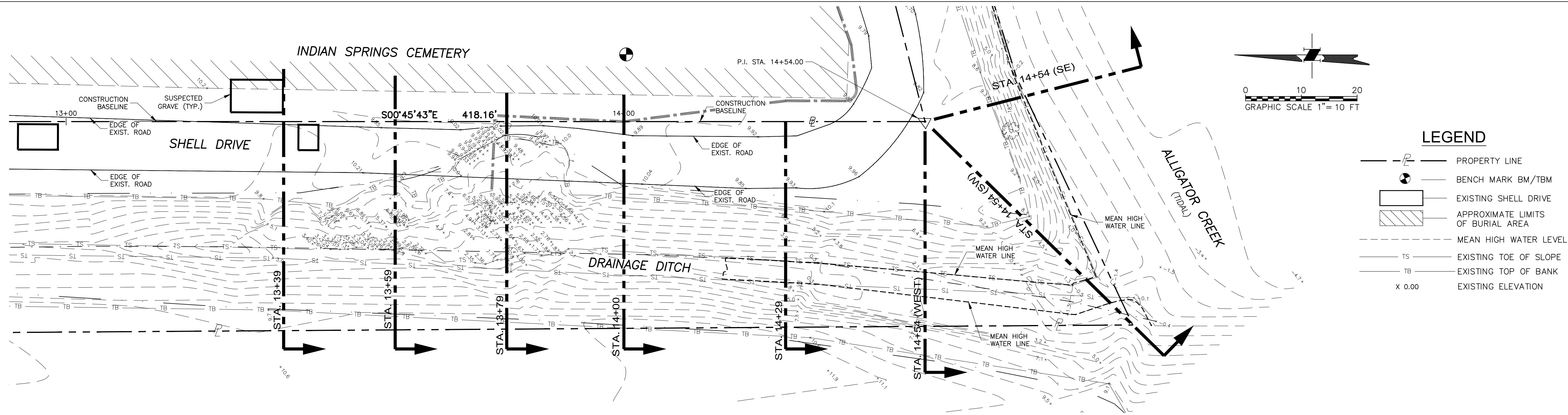
INDIAN SPRINGS CEMETERY  
SHORELINE STABILIZATION PROJECT  
PUNTA GORDA, FLORIDA 33950

FOR

CHARLOTTE COUNTY  
PURCHASING DIVISION  
18500 MURDOCK CIRCLE, SUITE 344  
PORT CHARLOTTE, FLORIDA 33948

Revisions:	
William L. Adams, P.E.	
P.E. No. 57950	
State of Florida	
CONSOR Engineers	
Date:	05/20/24
Scale:	1"=30'
Drawn By:	FLS
Checked By:	WLA
Project #:	12855
<b>SHEET C5</b>	

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TRANSPORTATION PLANNING AND DESIGN

**EXISTING CONDITIONS**  
INDIAN SPRINGS CEMETERY  
SHORELINE STABILIZATION PROJECT  
PUNTA GORDA, FLORIDA 33950

**FOR**  
CHARLOTTE COUNTY  
PURCHASING DIVISION  
18500 MURDOCK CIRCLE, SUITE 344  
PORT CHARLOTTE, FLORIDA 33948

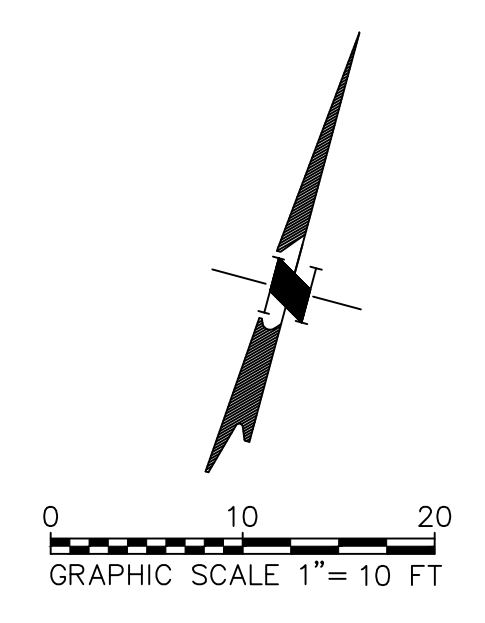
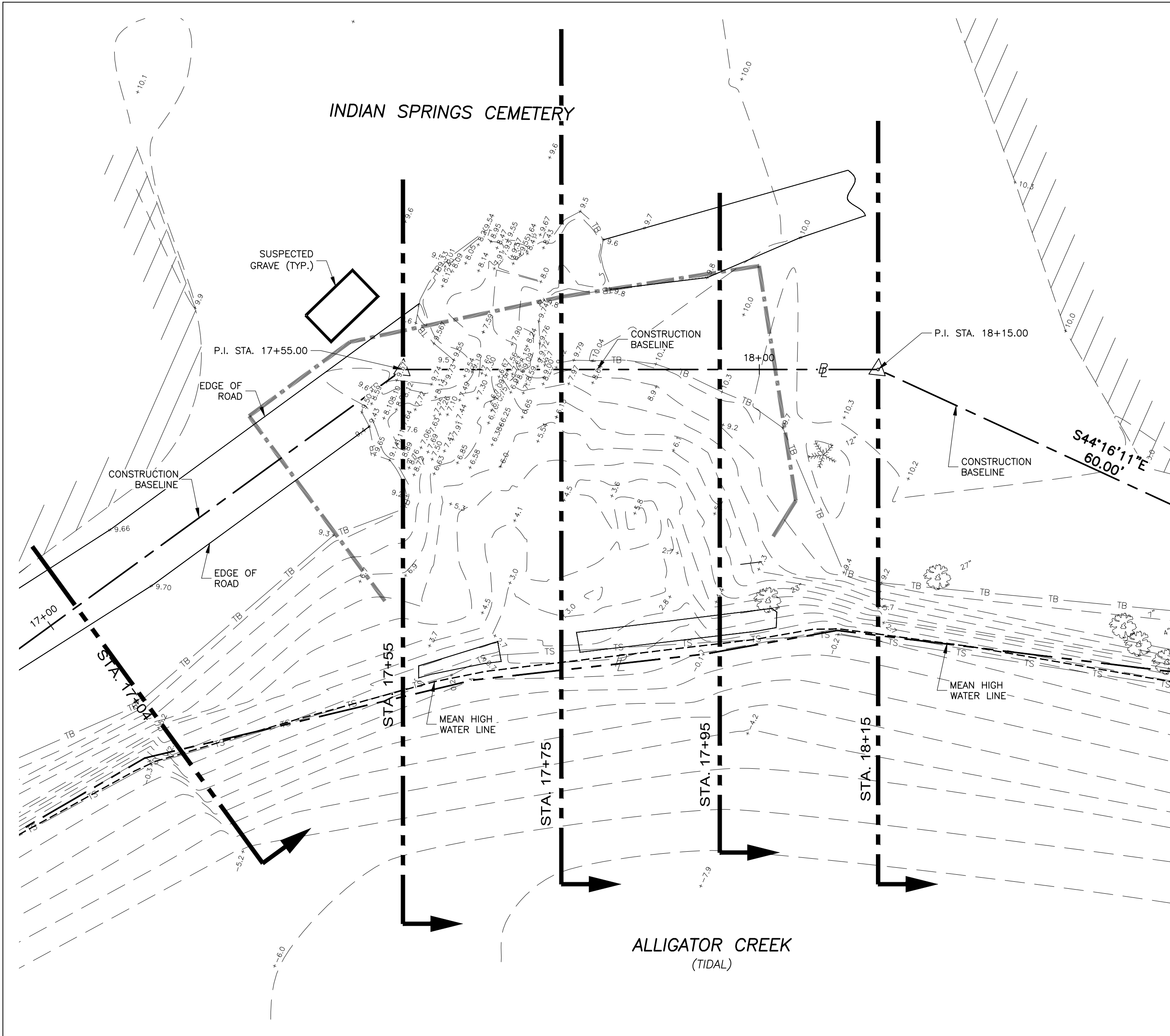
Revisions:


William L. Adams, P.E.  
P.E. No. 57950  
State of Florida  
CONSOR Engineers.

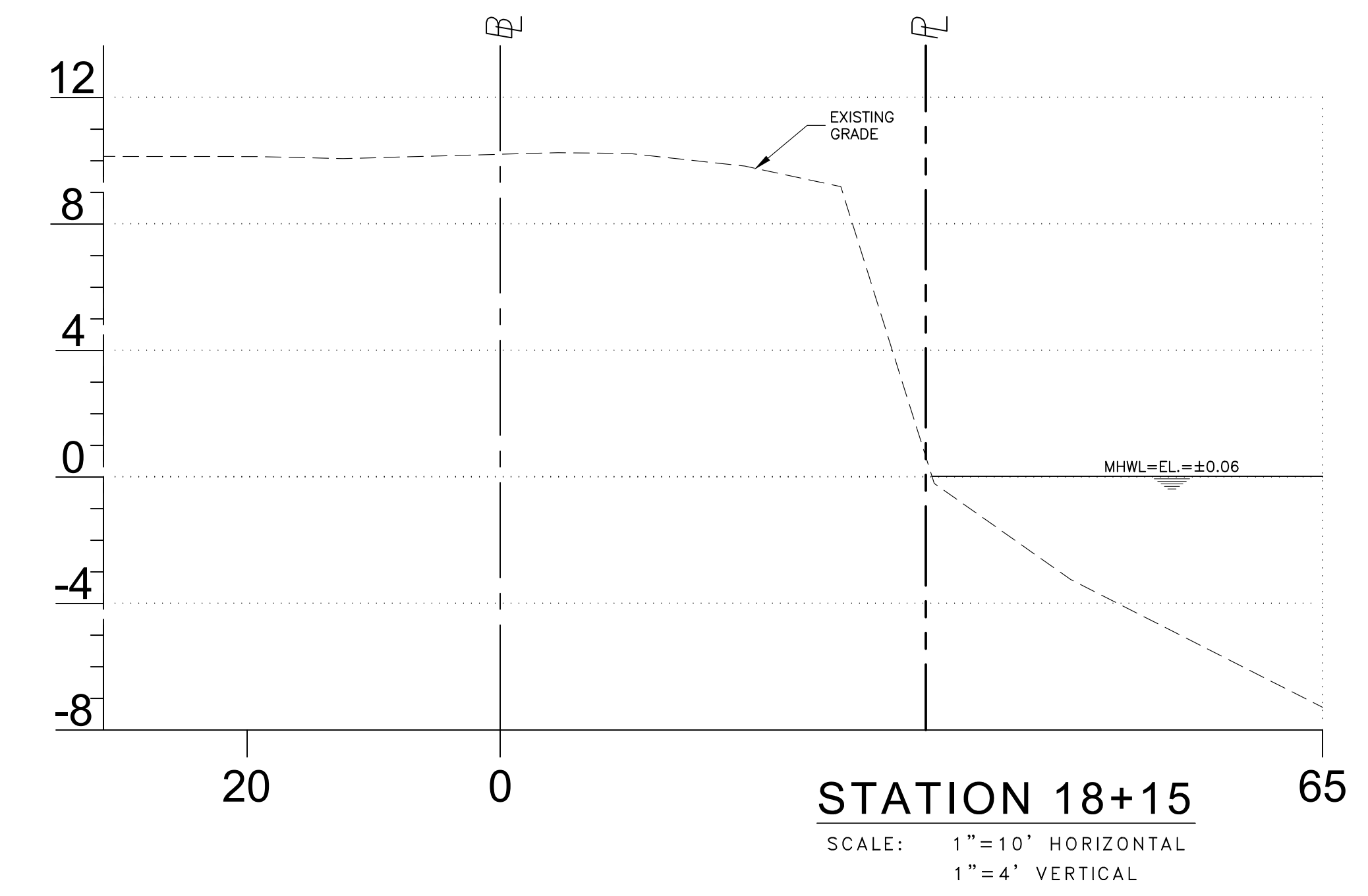
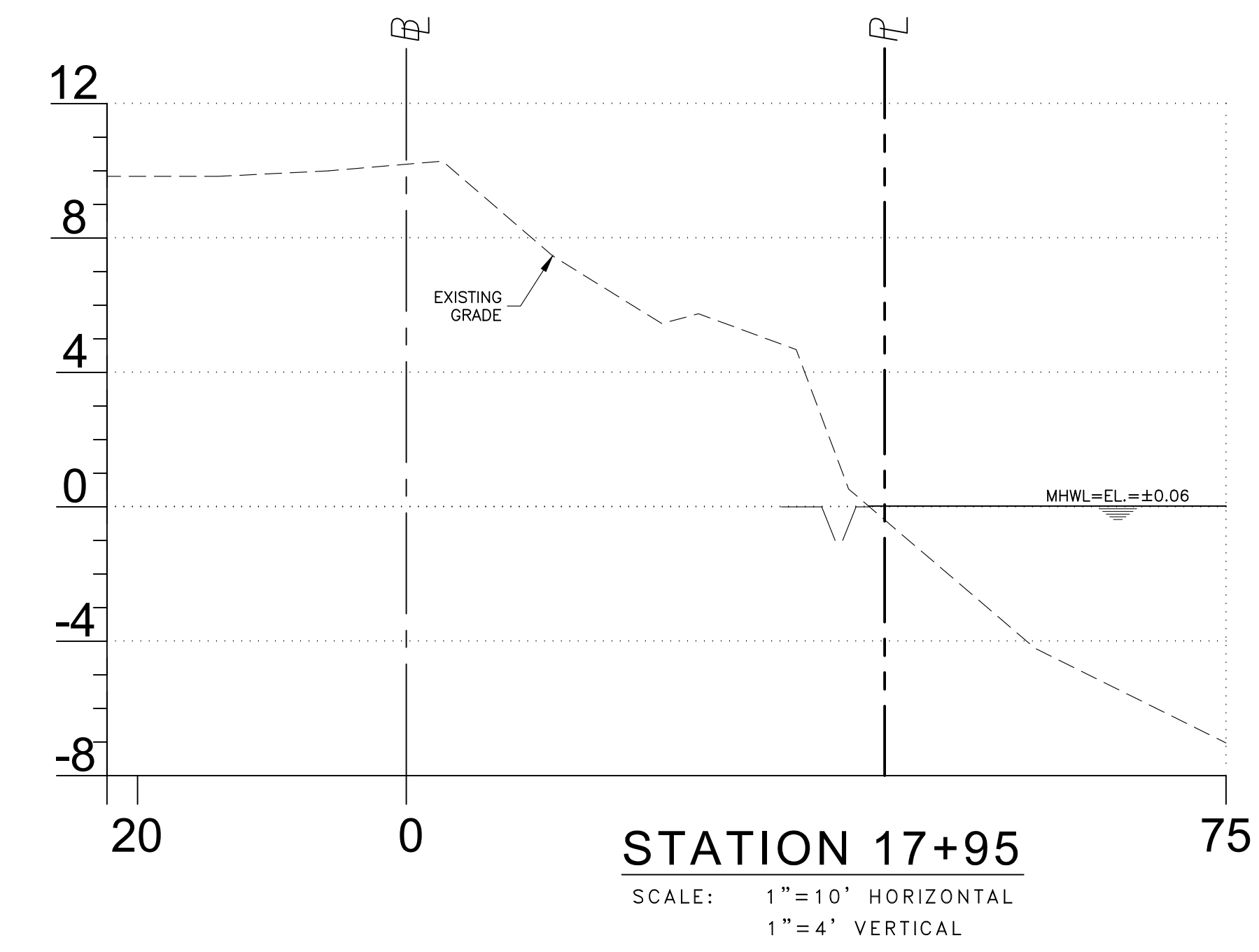
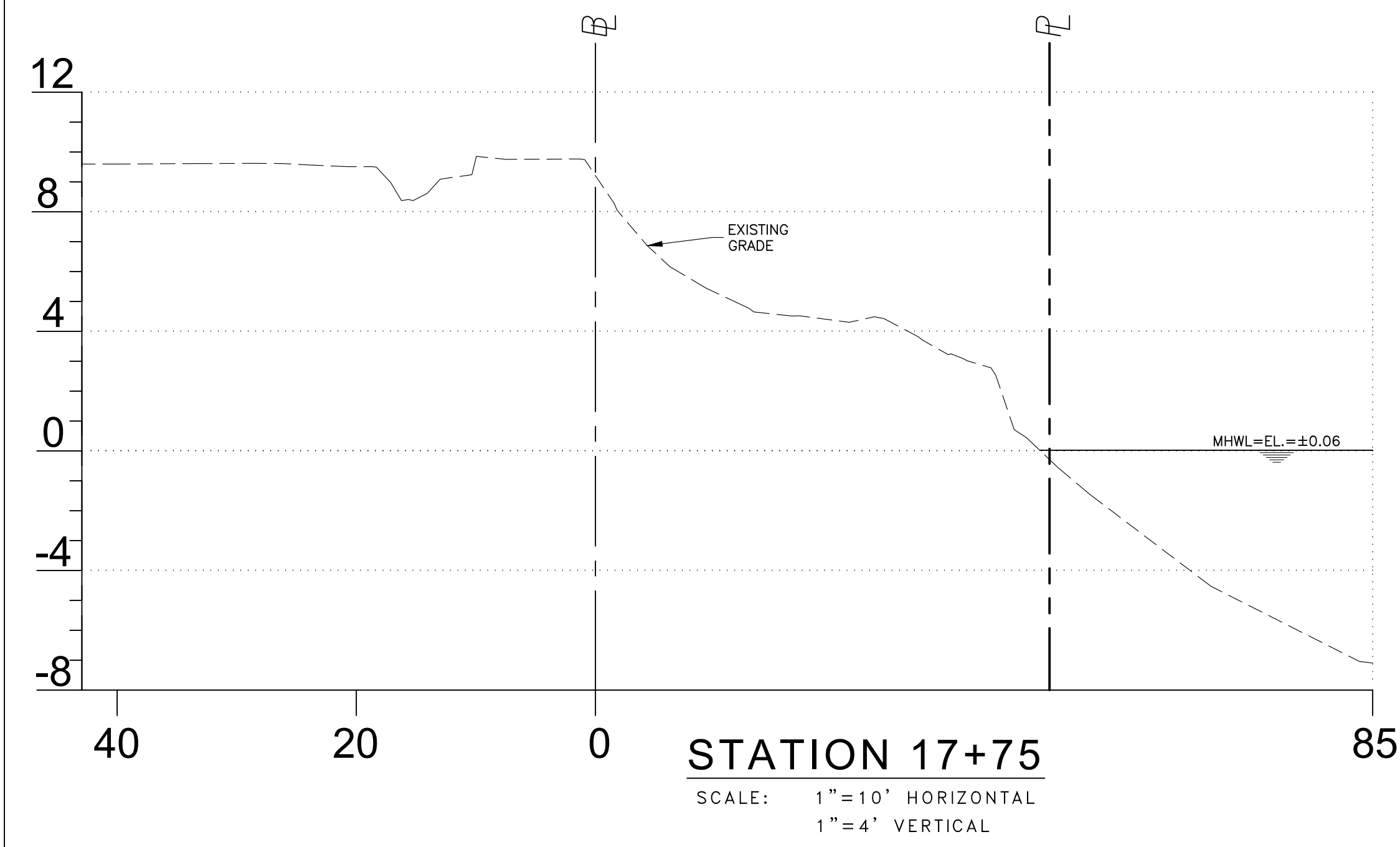
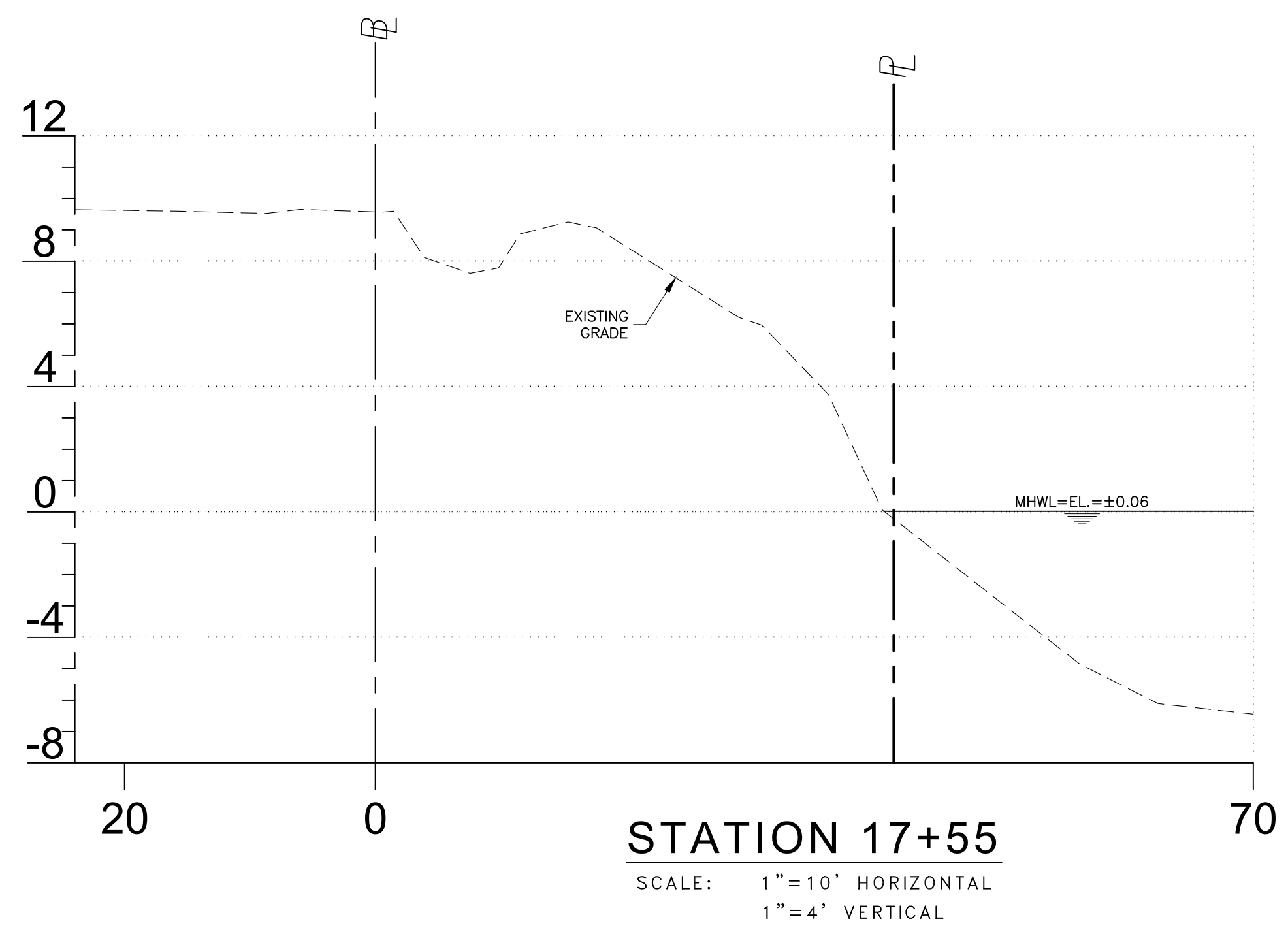
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Scale: SHOWN  
Drawn By: FLS  
Checked By: WLA  
Project #: 12855

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- LEGEND**
- PROPERTY LINE
  - BENCH MARK BM/TBM
  - EXISTING SHELL DRIVE
  - APPROXIMATE LIMITS OF BURIAL AREA
  - MEAN HIGH WATER LEVEL
  - EXISTING TOE OF SLOPE
  - EXISTING TOP OF BANK
  - EXISTING ELEVATION
- X 0.00



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**EXISTING CONDITIONS**

INDIAN SPRINGS CEMETERY  
SHORELINE STABILIZATION PROJECT  
PUNTA GORDA, FLORIDA 33950

FOR

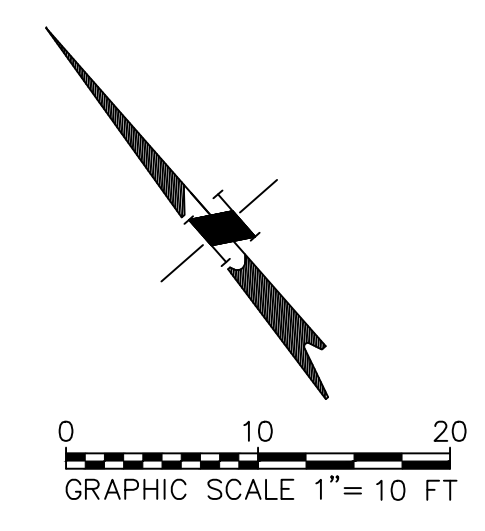
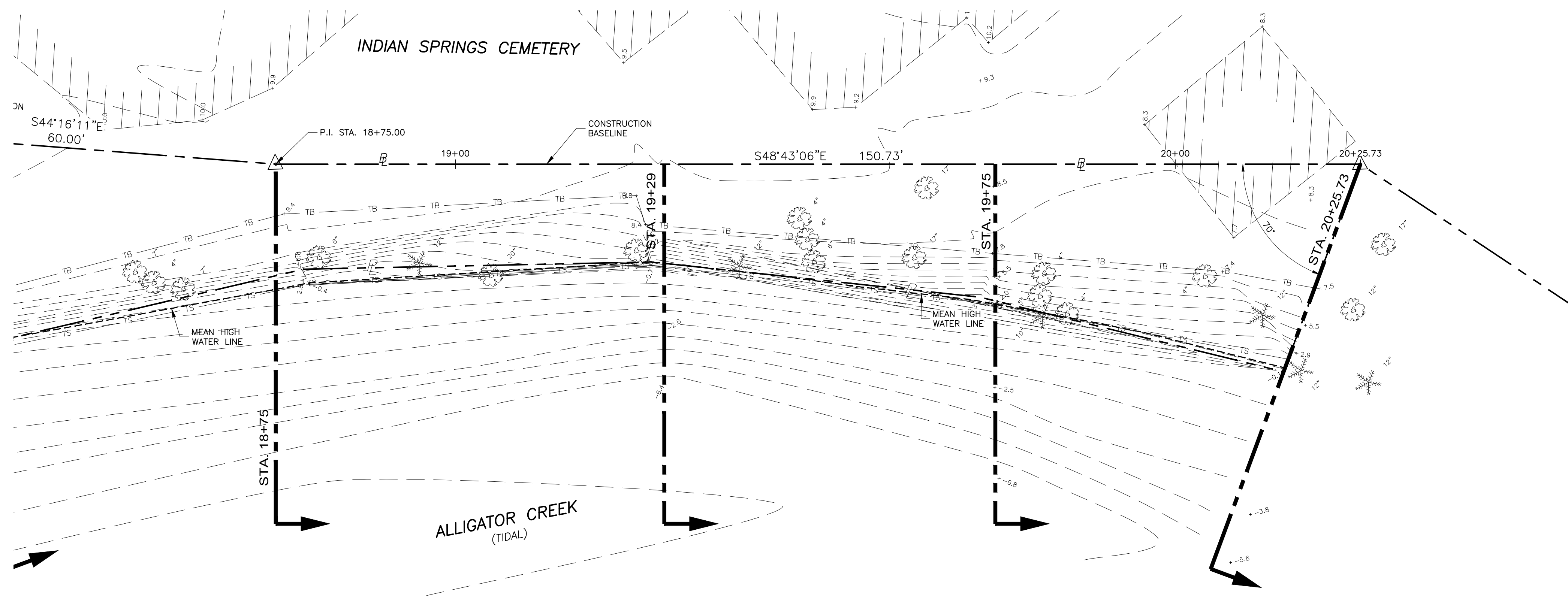
**CHARLOTTE COUNTY  
PURCHASING DIVISION**  
18500 MURDOCK CIRCLE, SUITE 344  
PORT CHARLOTTE, FLORIDA 33948

William L. Adams, P.E.  
P.E. No. 57950  
State of Florida  
CONSOR Engineers.

Date: 05/20/24  
Scale: SHOWN  
Drawn By: FLS  
Checked By: WLA  
Project #: 12855

**SHEET C8**

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- LEGEND**
- PROPERTY LINE
  - BENCH MARK BM/TBM
  - APPROXIMATE LIMITS OF BURIAL AREA
  - MEAN HIGH WATER LINE
  - TS EXISTING TOE OF SLOPE
  - TB EXISTING TOP OF BANK
  - x 0.00 EXISTING ELEVATION



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TRANSPORTATION PLANNING AND DESIGN

**EXISTING CONDITIONS**

INDIAN SPRINGS CEMETERY  
 SHORELINE STABILIZATION PROJECT  
 PUNTA GORDA, FLORIDA 33950

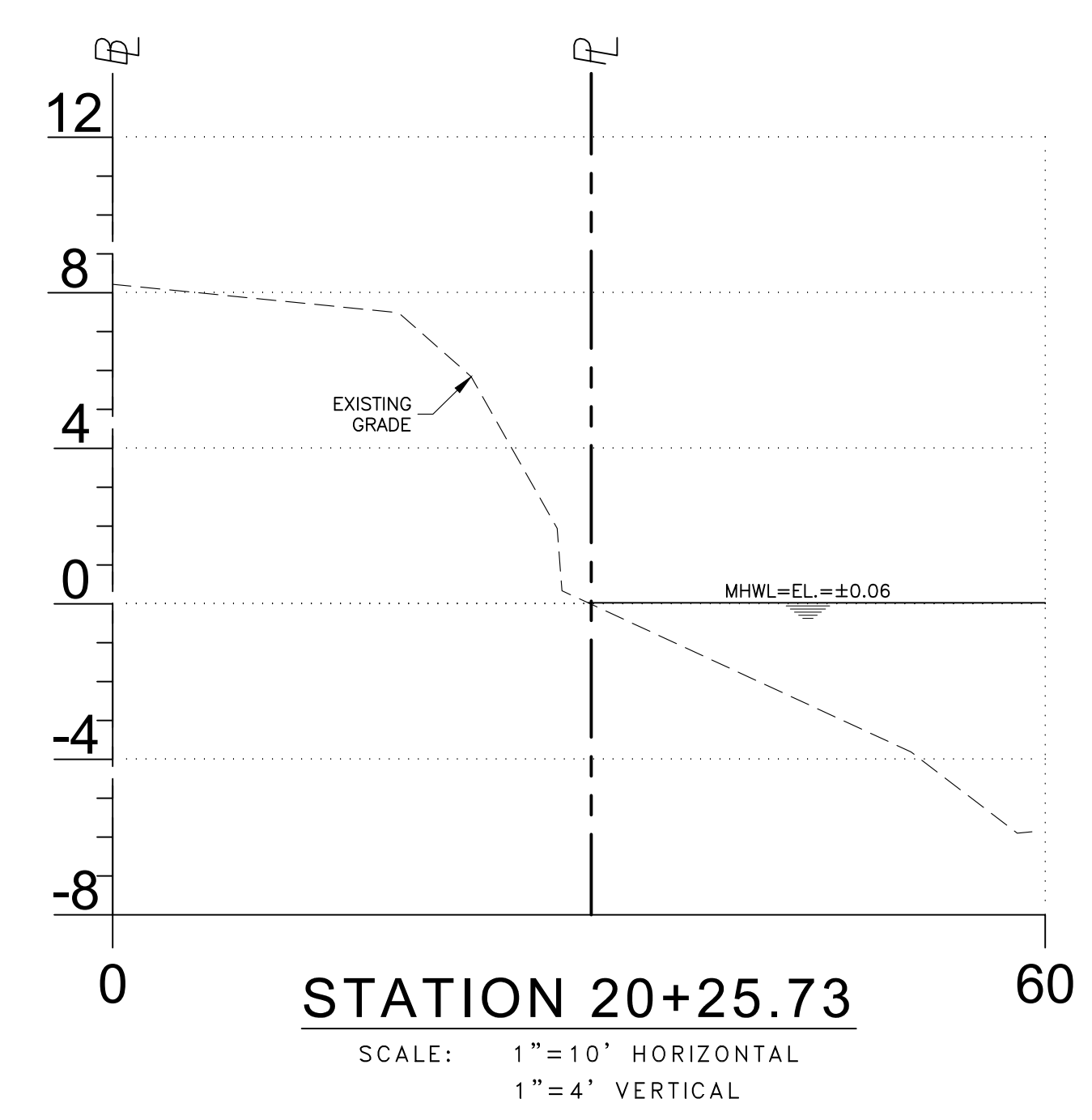
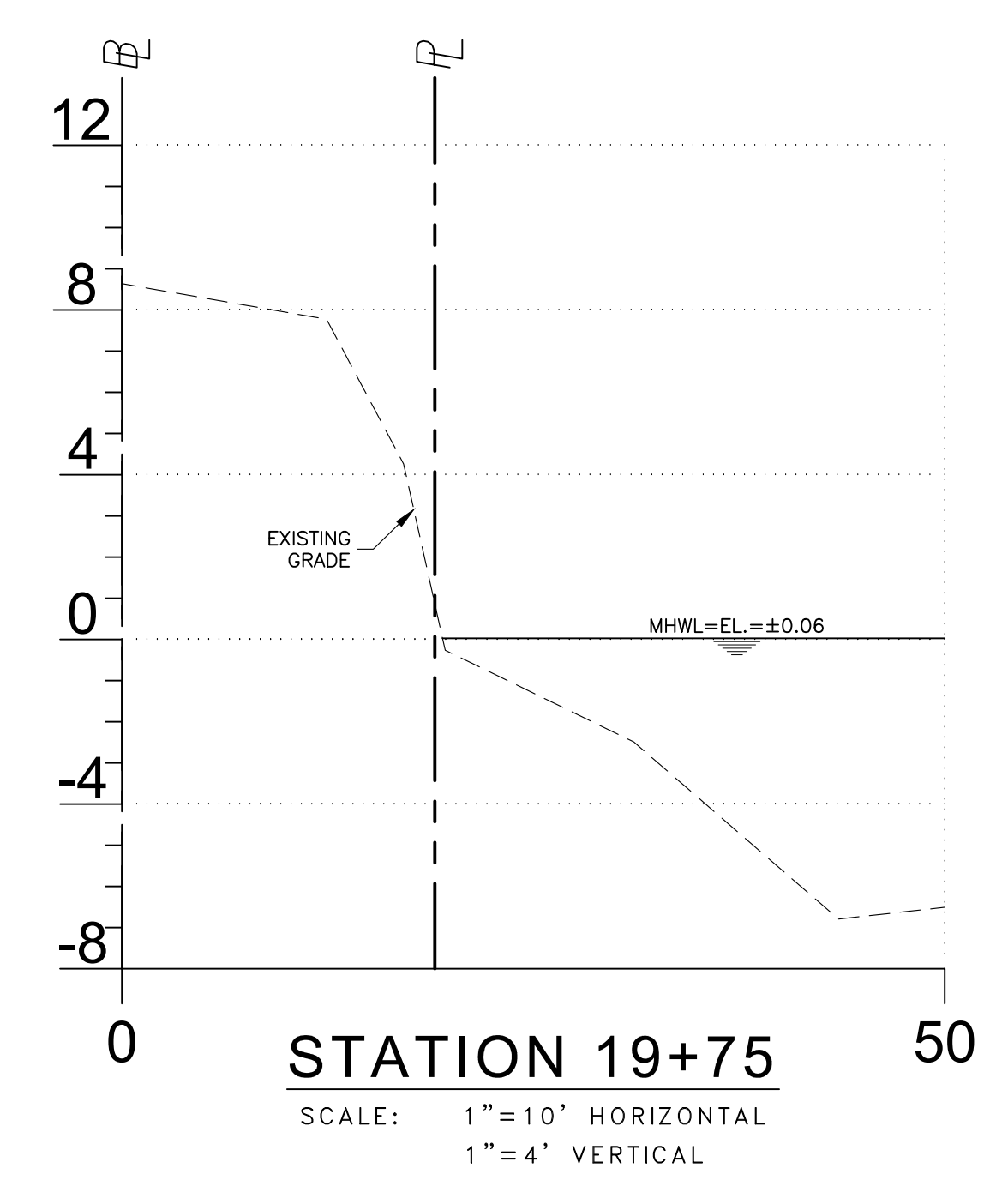
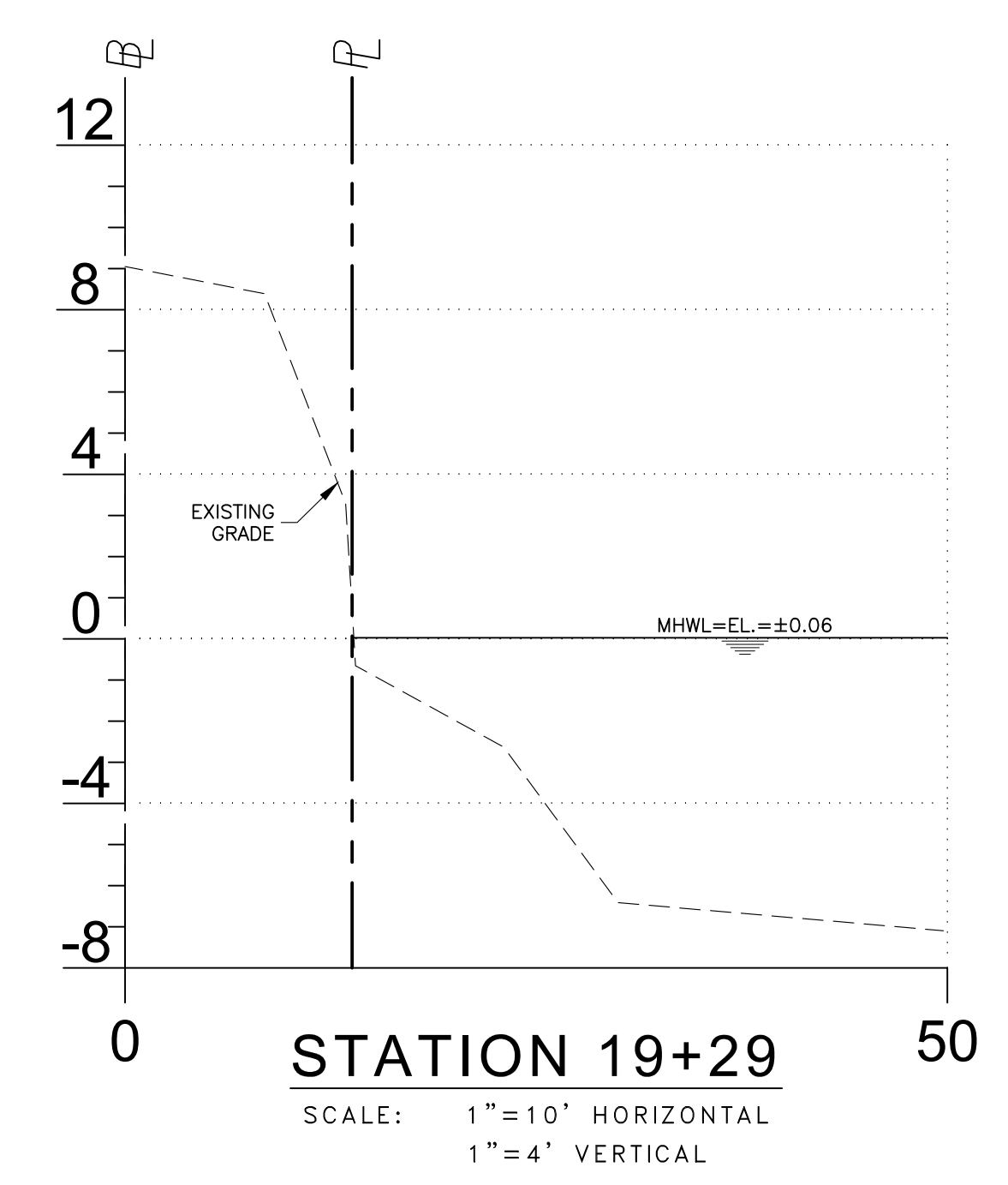
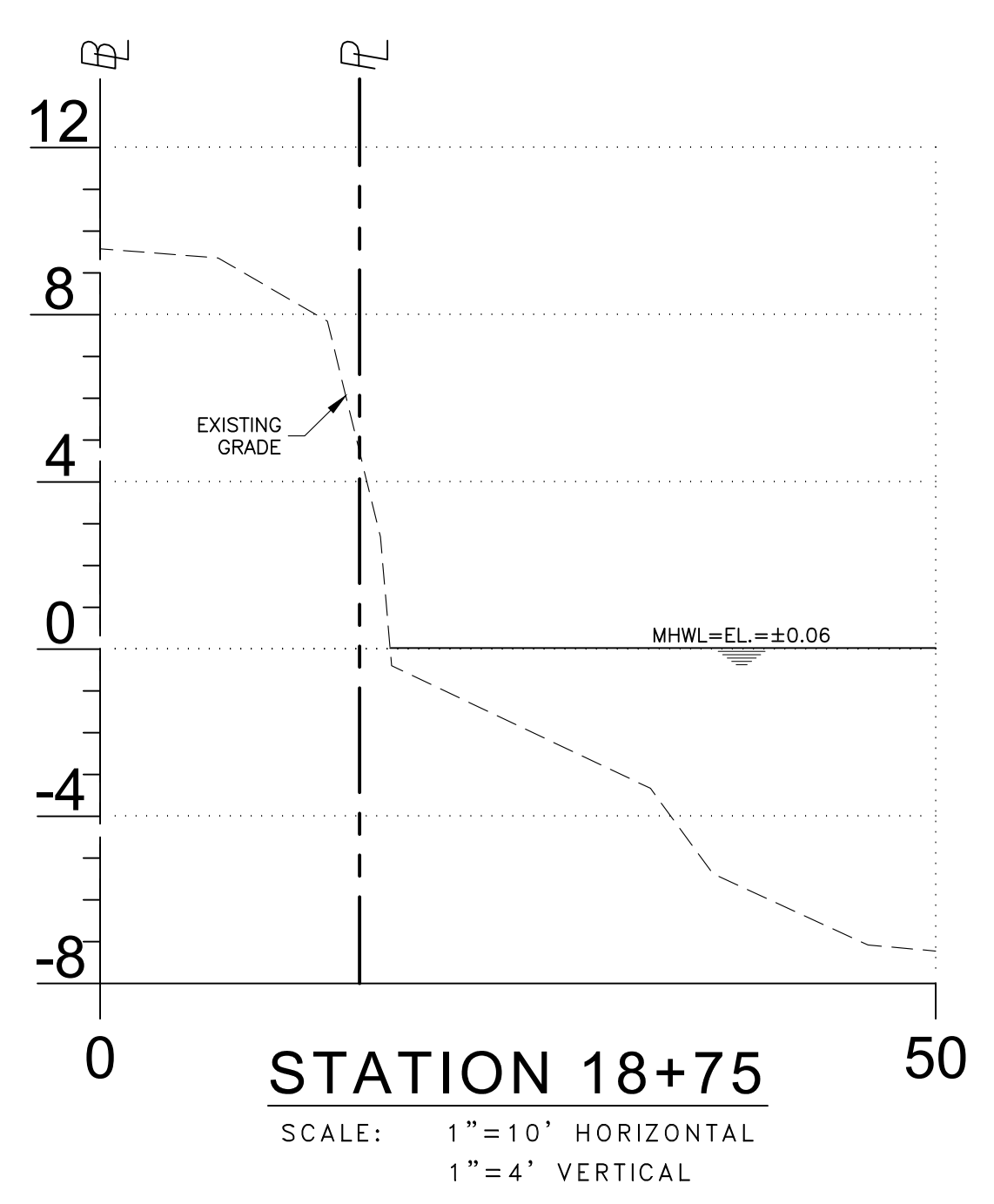
FOR  
 CHARLOTTE COUNTY  
 PURCHASING DIVISION  
 18500 MURDOCK CIRCLE, SUITE 344  
 PORT CHARLOTTE, FLORIDA 33948

Revisions:

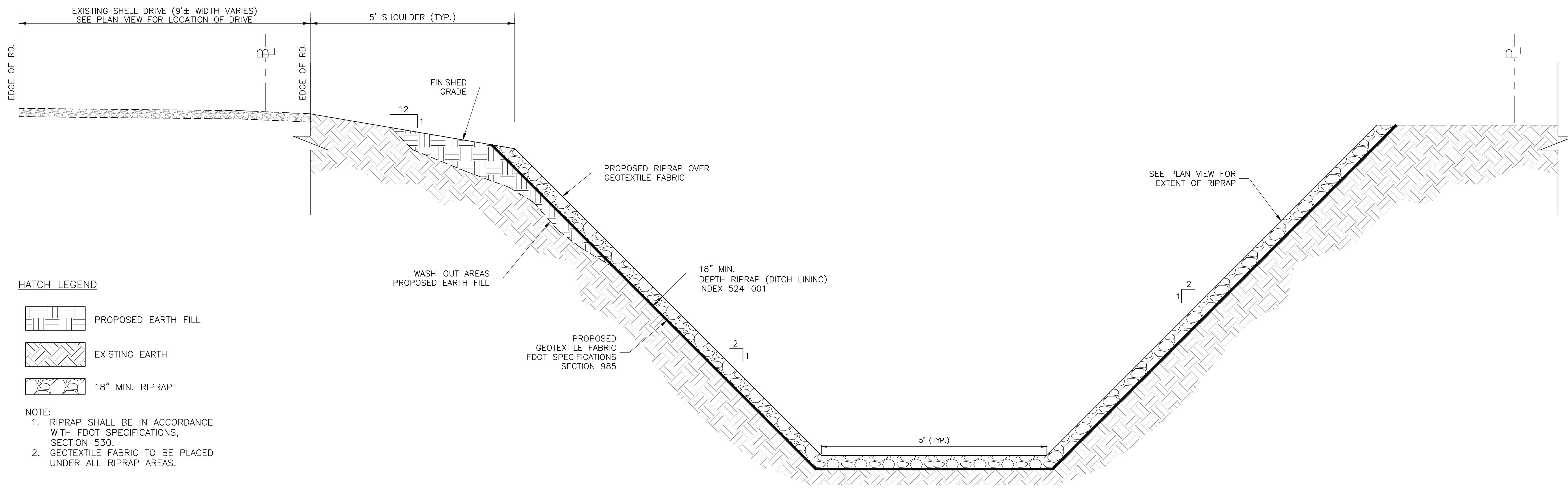
William L. Adams, P.E.  
 P.E. No. 57950  
 State of Florida  
 CONSOR Engineers.

Date: 05/20/24  
 Scale: SHOWN  
 Drawn By: FLS  
 Checked By: WLA  
 Project #: 12855



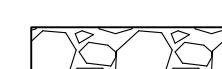
**SHEET C9**



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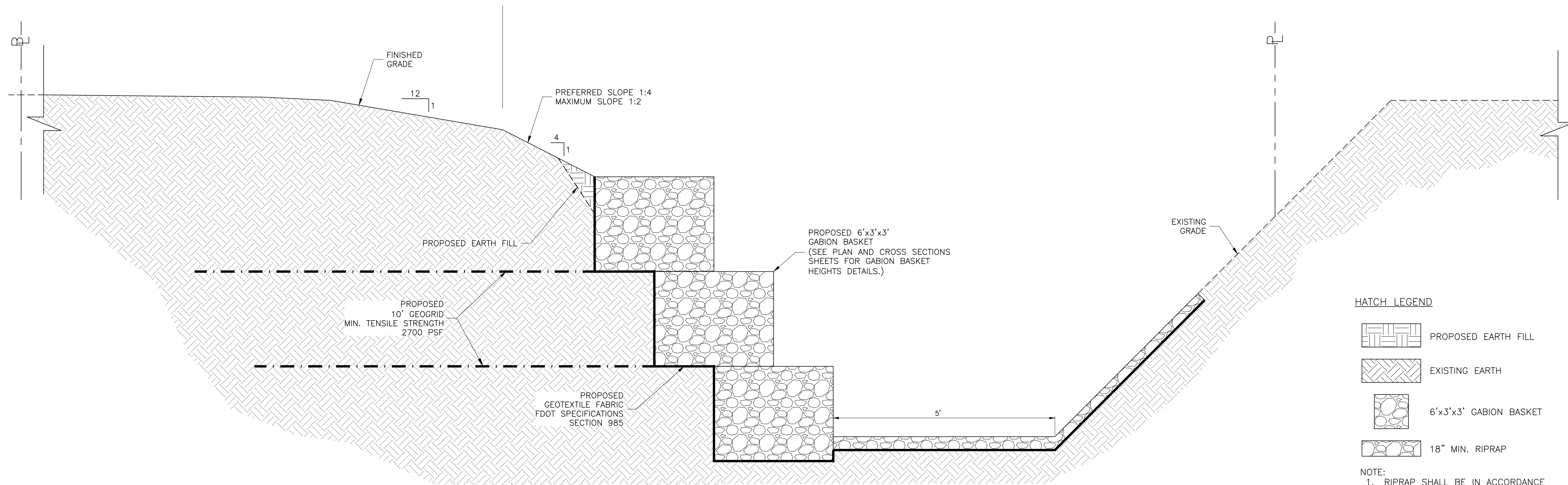


**HATCH LEGEND**

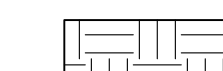



-  PROPOSED EARTH FILL
-  EXISTING EARTH
-  18" MIN. RIPRAP

- NOTE:**
1. RIPRAP SHALL BE IN ACCORDANCE WITH FDOT SPECIFICATIONS, SECTION 530.
  2. GEOTEXTILE FABRIC TO BE PLACED UNDER ALL RIPRAP AREAS.

**TYPICAL CHANNEL SECTION  
STA. 10+05 TO STA. 13+76  
N.T.S**



**HATCH LEGEND**

-  PROPOSED EARTH FILL
-  EXISTING EARTH
-  6'x3'x3' GABION BASKET
-  18" MIN. RIPRAP

- NOTE:**
1. RIPRAP SHALL BE IN ACCORDANCE WITH FDOT SPECIFICATIONS, SECTION 530.
  2. SLOPES 1:3 OR STEEPER SHALL BE STABILIZED WITH GEOTEXTILE FABRIC.
  3. GEOTEXTILE FABRIC TO BE PLACED UNDER ALL RIPRAP AREAS.

**TYPICAL CHANNEL SECTION  
STA. 13+76 TO STA. 14+54 (WEST)  
N.T.S**



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TRANSPORTATION PLANNING AND DESIGN

TYPICAL SECTION

INDIAN SPRINGS CEMETERY  
SHORELINE STABILIZATION PROJECT  
PUNTA GORDA, FLORIDA 33950

FOR  
CHARLOTTE COUNTY  
PURCHASING DIVISION  
18500 MURDOCK CIRCLE, SUITE 344  
PORT CHARLOTTE, FLORIDA 33948

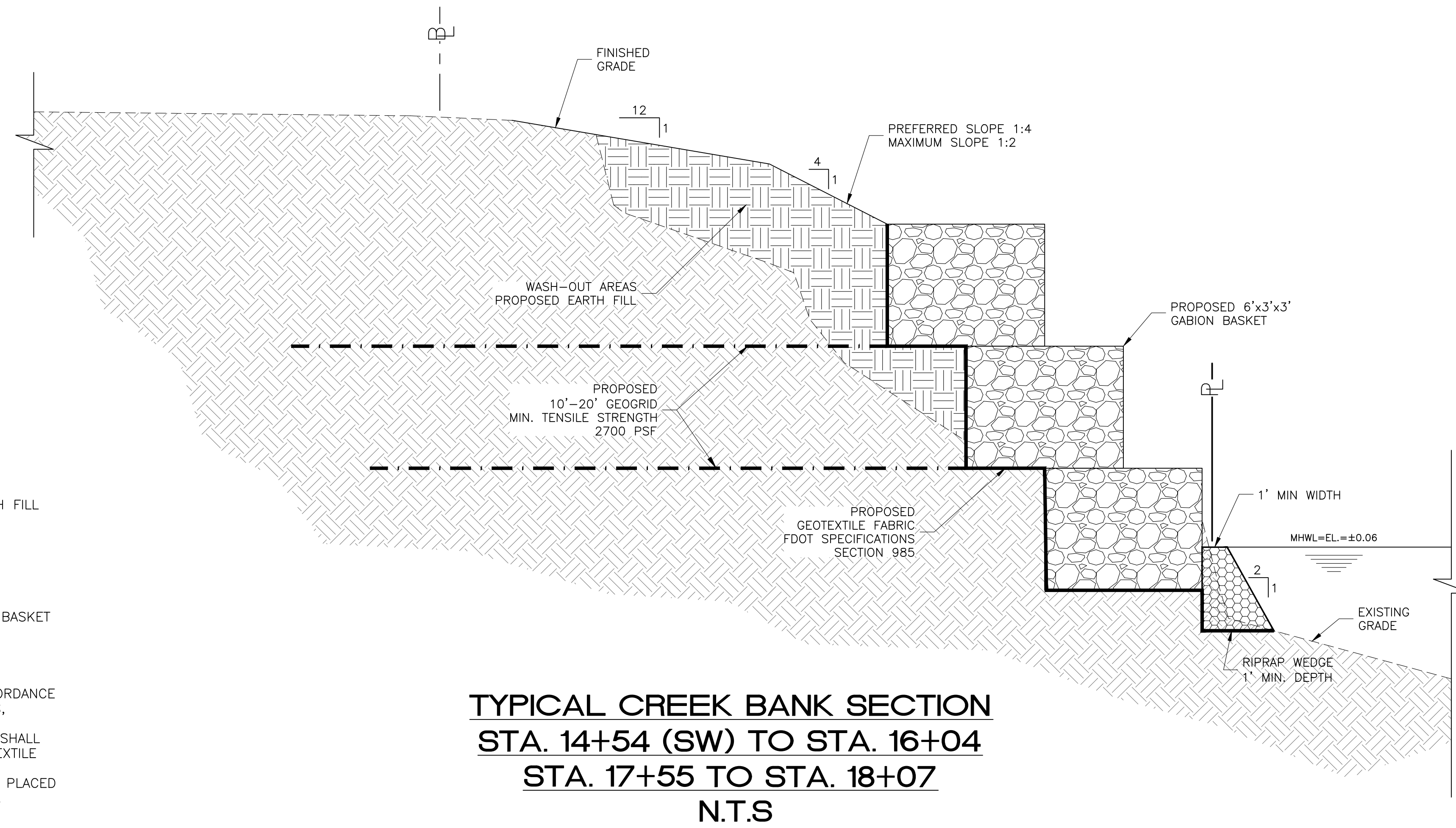
Revisions:

William L. Adams, P.E.  
P.E. No. 57950  
State of Florida  
CONSOR Engineers.

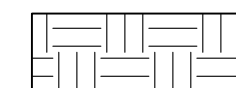

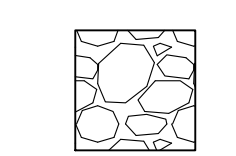
Date: 05/20/24  
Scale: SHOWN  
Drawn By: FLS  
Checked By: WLA  
Project #: 12855

SHEET C10

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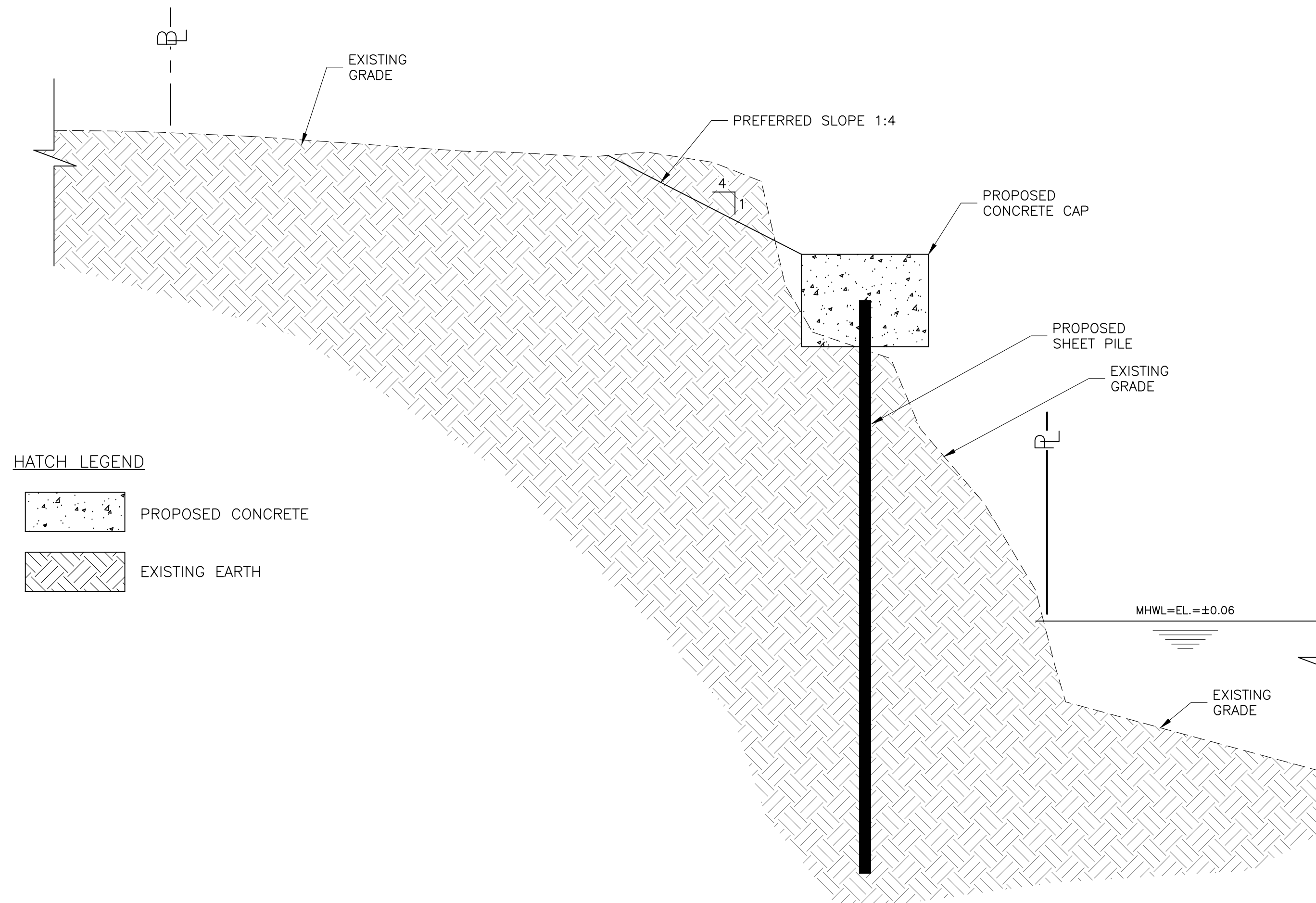


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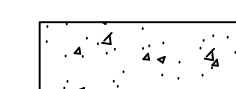

-  PROPOSED EARTH FILL
-  EXISTING EARTH
-  6'x3'x3' GABION BASKET

- NOTE:
1. RIPRAP SHALL BE IN ACCORDANCE WITH FDOT SPECIFICATIONS, SECTION 530.
  2. SLOPES 1:3 OR STEEPER SHALL BE STABILIZED WITH GEOTEXTILE FABRIC.
  3. GEOTEXTILE FABRIC TO BE PLACED UNDER ALL RIPRAP AREAS.

**TYPICAL CREEK BANK SECTION**  
**STA. 14+54 (SW) TO STA. 16+04**  
**STA. 17+55 TO STA. 18+07**  
**N.T.S**



HATCH LEGEND

-  PROPOSED CONCRETE
-  EXISTING EARTH

**TYPICAL CREEK BANK SECTION**  
**STA. 16+04 TO STA. 17+55**  
**N.T.S**



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 West Palm Beach, Florida 33411  
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TRANSPORTATION PLANNING AND DESIGN

TYPICAL SECTION

INDIAN SPRINGS CEMETERY  
 SHORELINE STABILIZATION PROJECT  
 PUNTA GORDA, FLORIDA 33950

FOR  
 CHARLOTTE COUNTY  
 PURCHASING DIVISION  
 18500 MURDOCK CIRCLE, SUITE 344  
 PORT CHARLOTTE, FLORIDA 33948

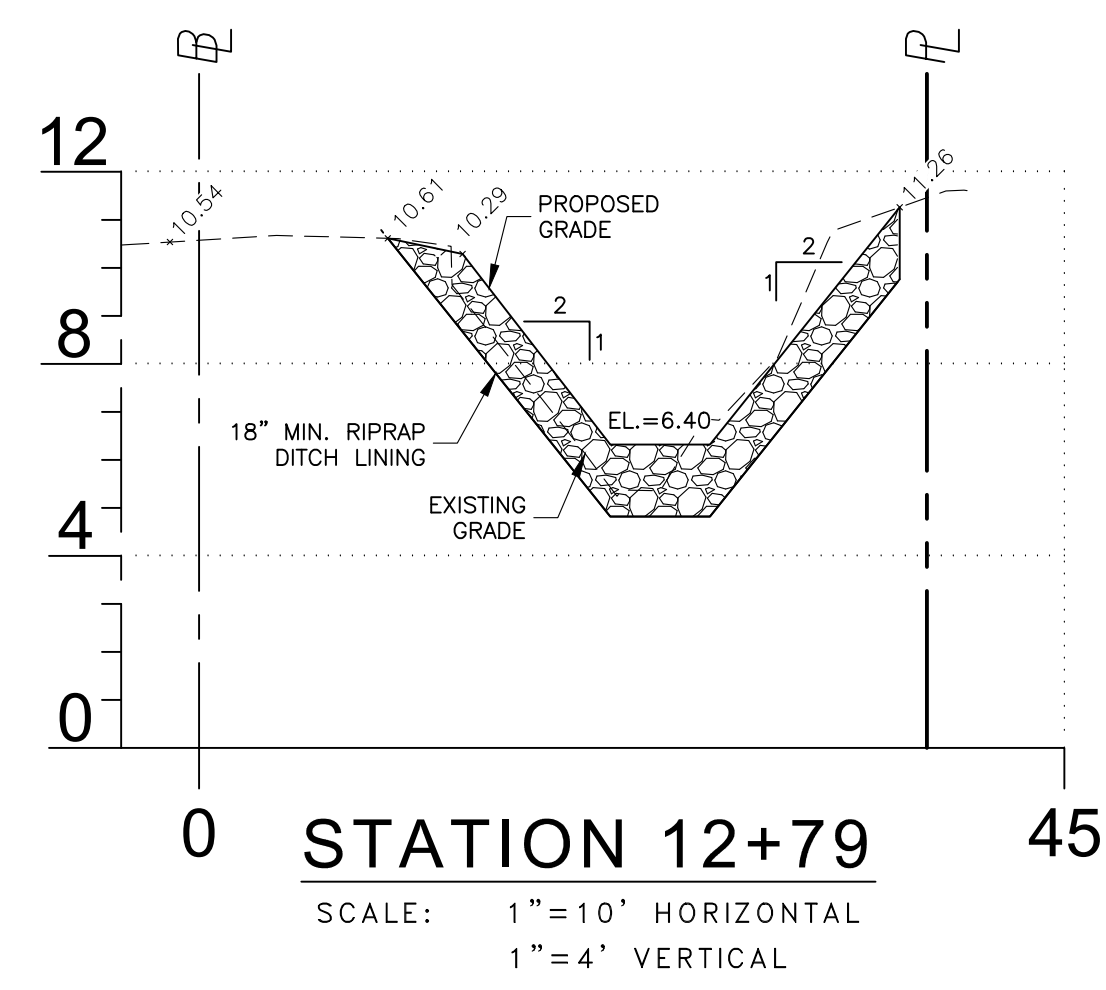
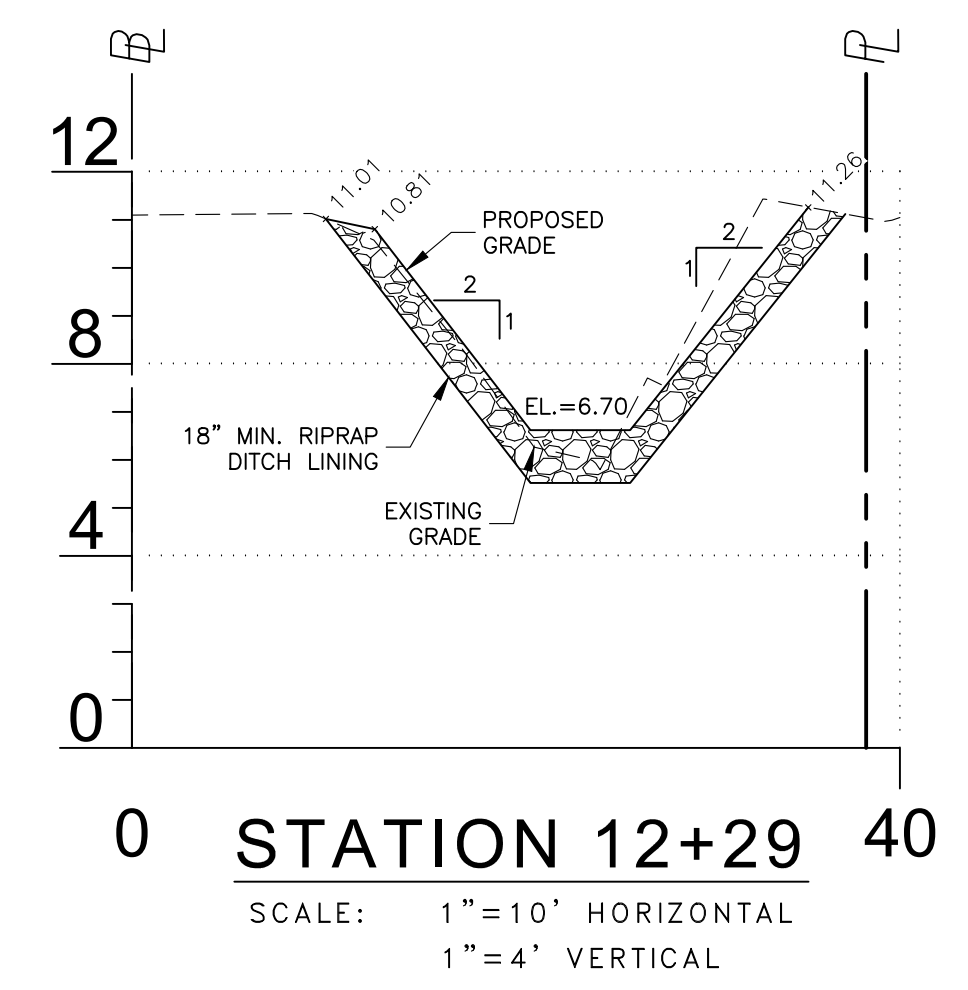
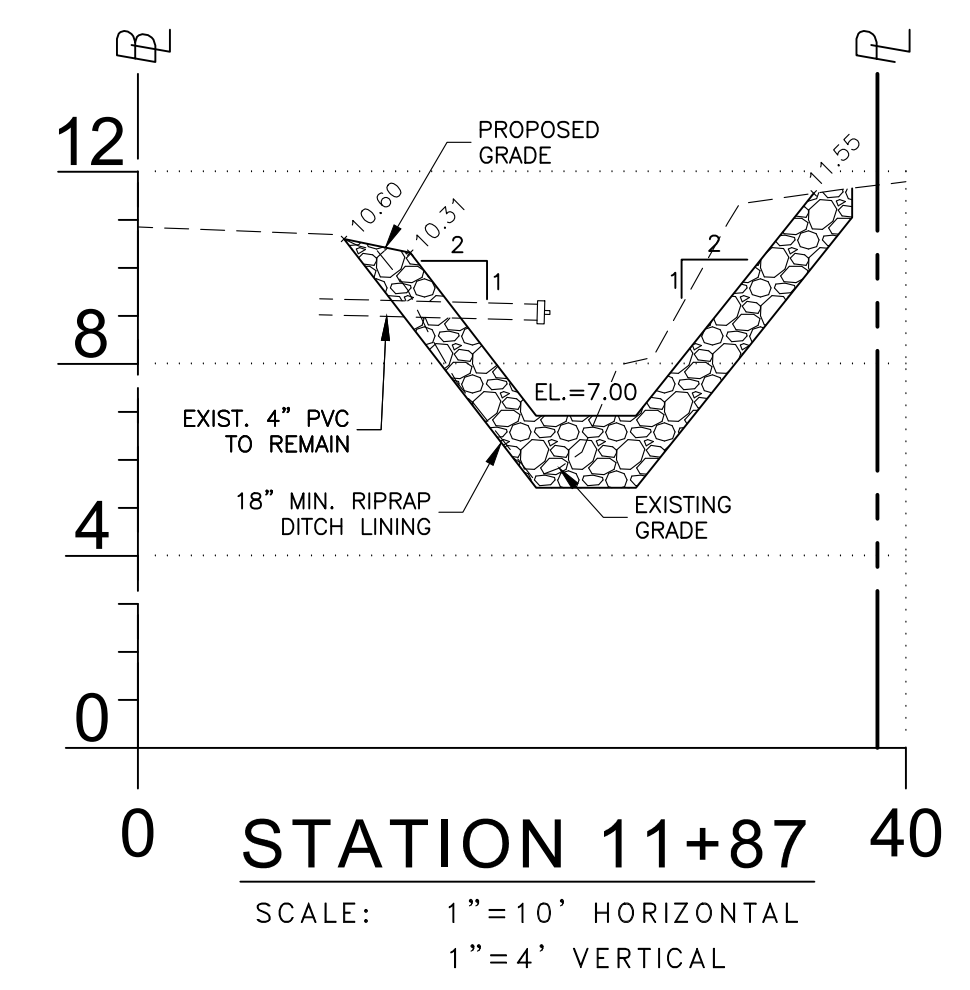
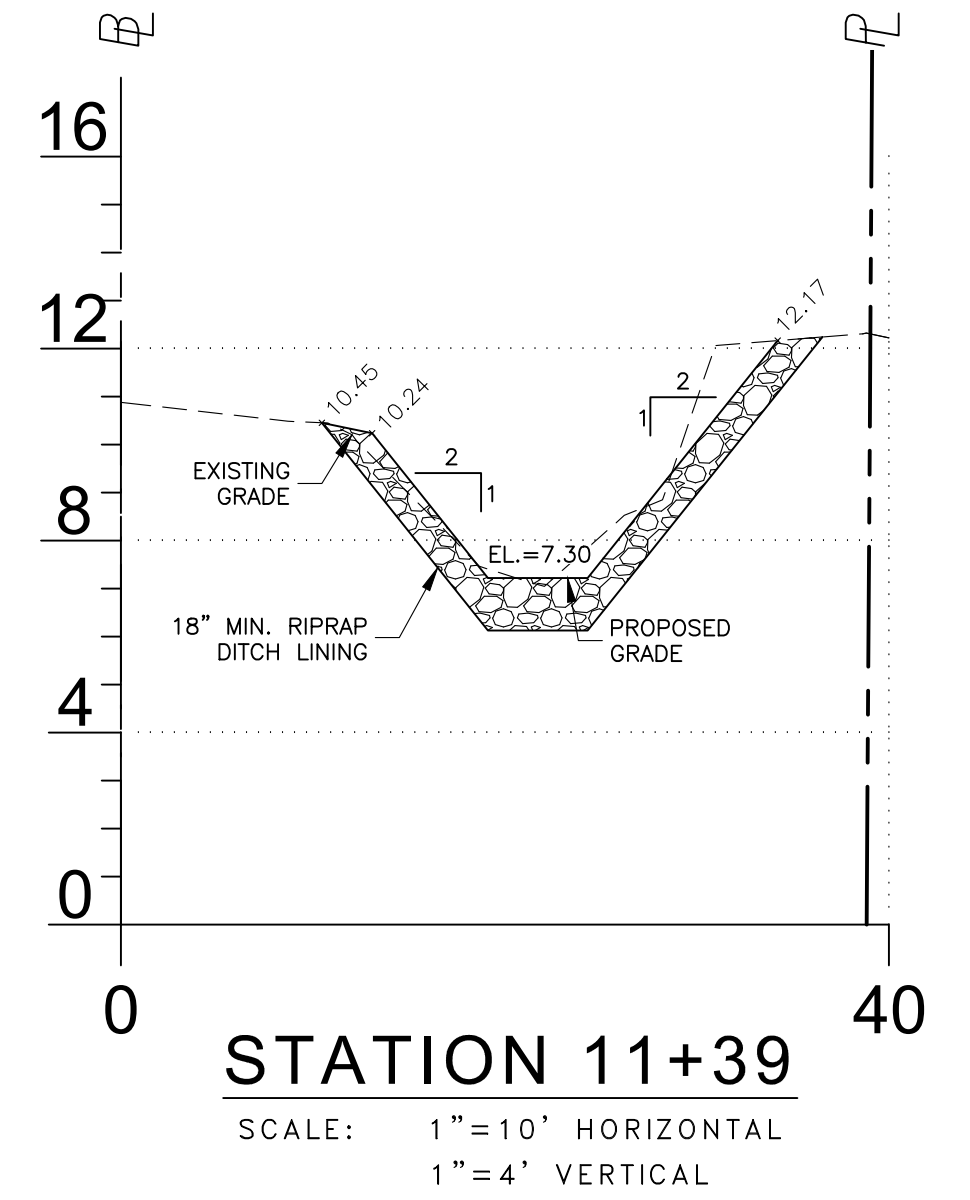
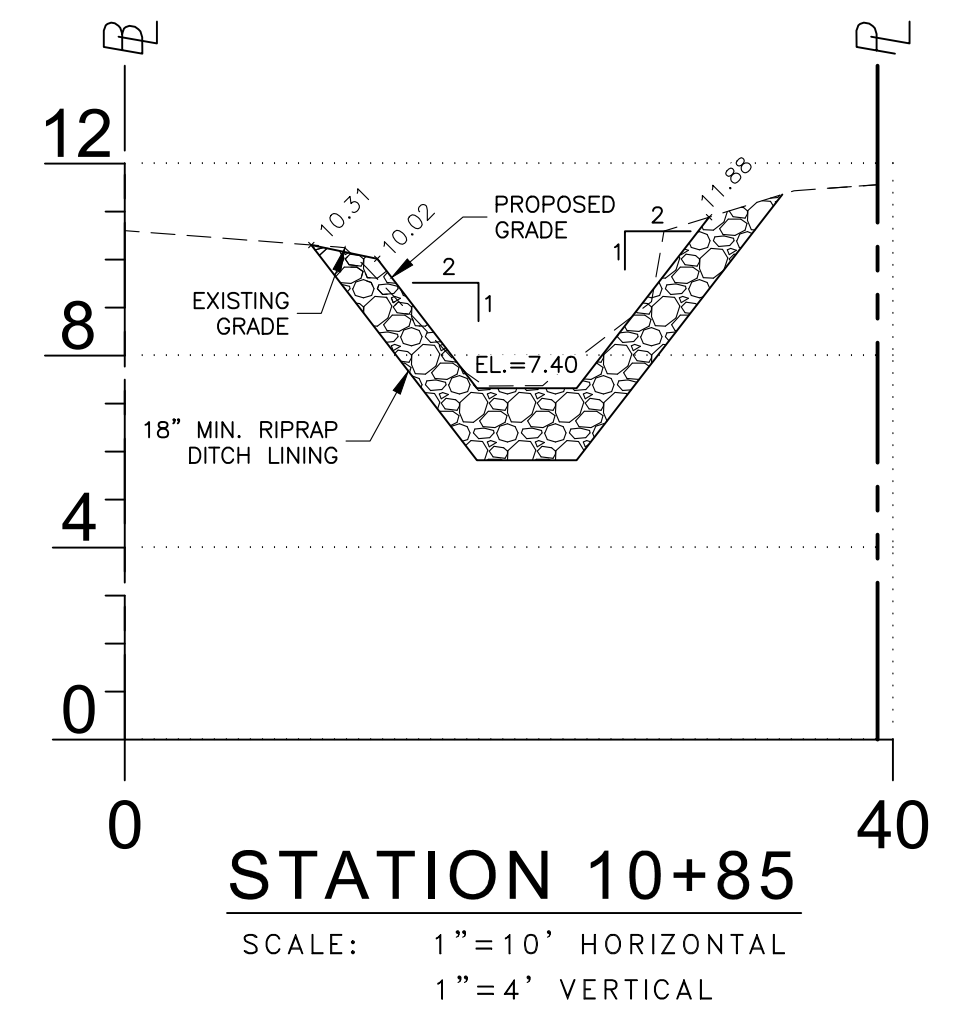
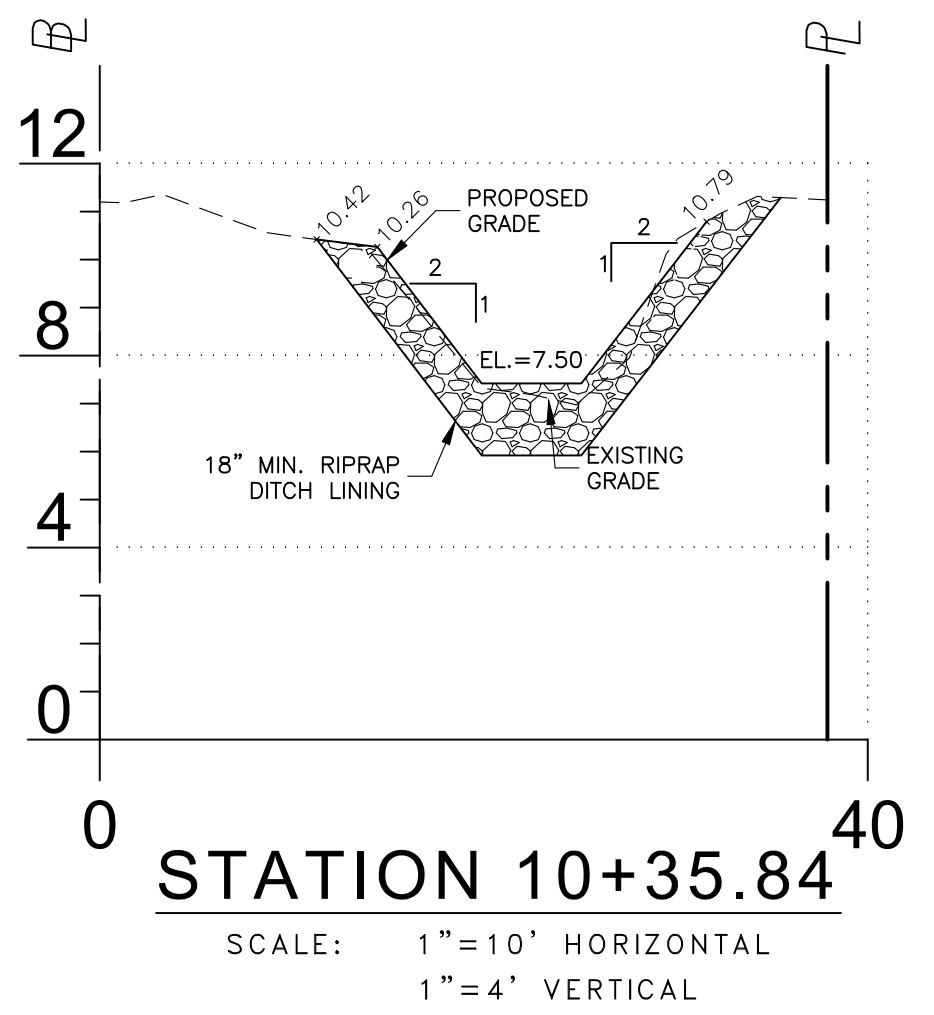
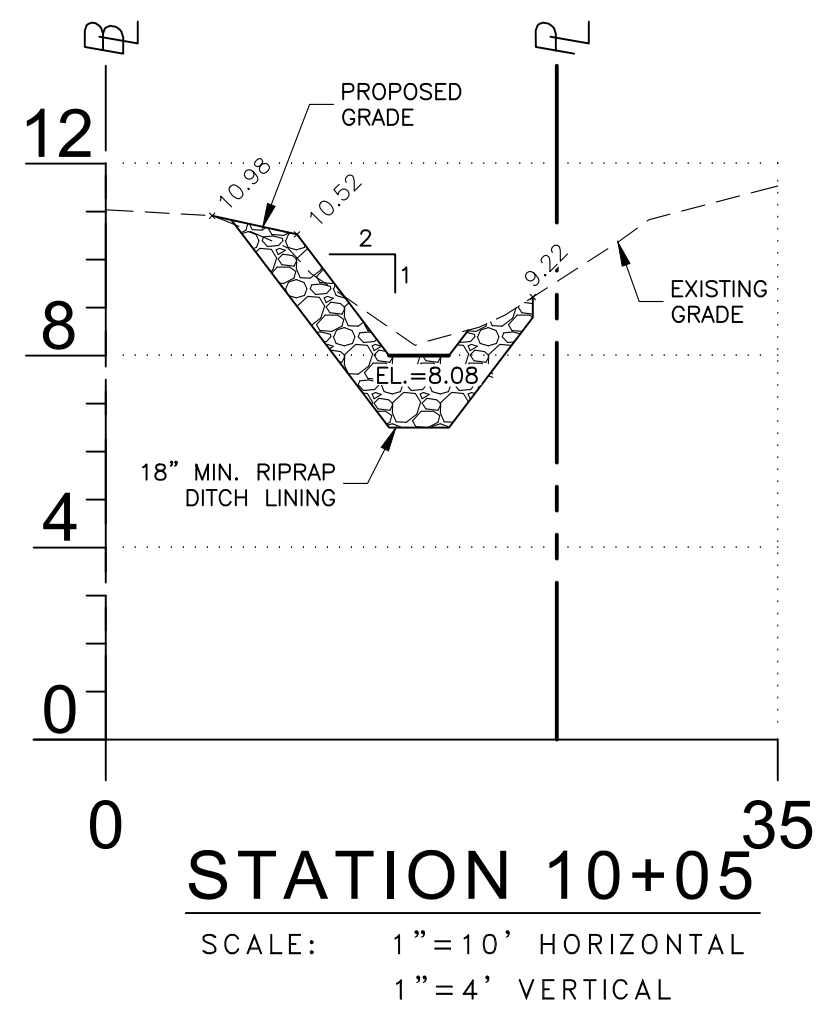
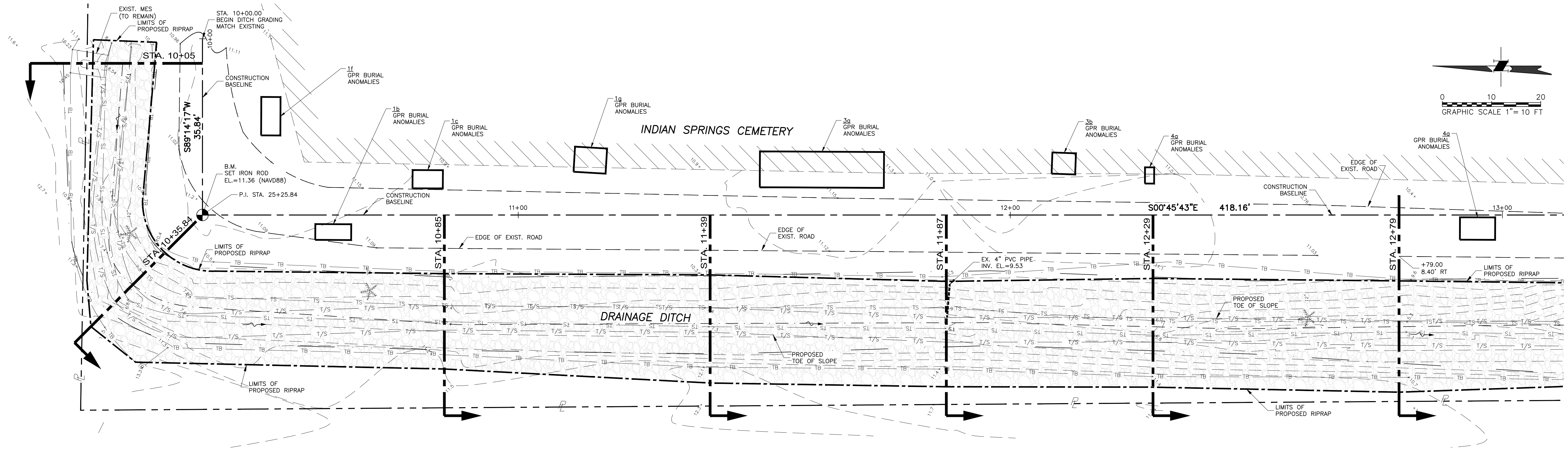
Revisions:

William L. Adams, P.E.  
 P.E. No. 57950  
 State of Florida  
 CONSOR Engineers.

Date: 05/20/24  
 Scale: SHOWN  
 Drawn By: FLS  
 Checked By: WLA  
 Project #: 12855

SHEET C11

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- LEGEND**
- PROPERTY LINE
  - BENCH MARK BM/TBM
  - APPROXIMATE LIMITS OF BURIAL AREA
  - PROPOSED RIPRAP
  - TS EXISTING TOE OF SLOPE
  - TB EXISTING TOP OF BANK
  - PROPOSED TOP OF RIPRAP
  - T/S PROPOSED TOE OF SLOPE
  - PROPOSED DRAINAGE FLOW

**consor**  
TRANSPORTATION PLANNING AND DESIGN

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**PLAN AND CROSS SECTIONS**  
INDIAN SPRINGS CEMETERY  
SHORELINE STABILIZATION PROJECT  
PUNTA GORDA, FLORIDA 33950

**FOR**  
CHARLOTTE COUNTY  
PURCHASING DIVISION  
18500 MURDOCK CIRCLE, SUITE 344  
PORT CHARLOTTE, FLORIDA 33948

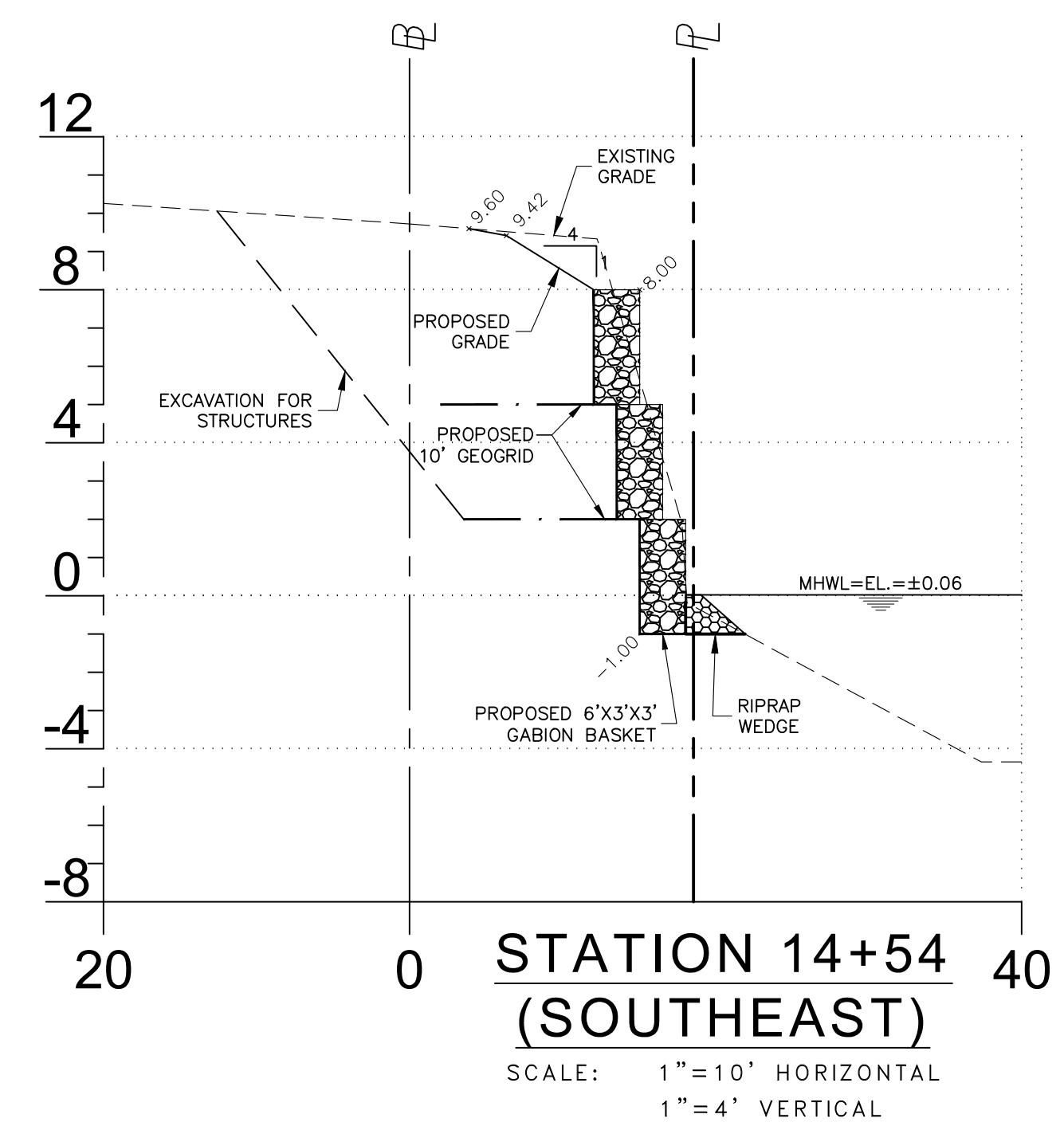
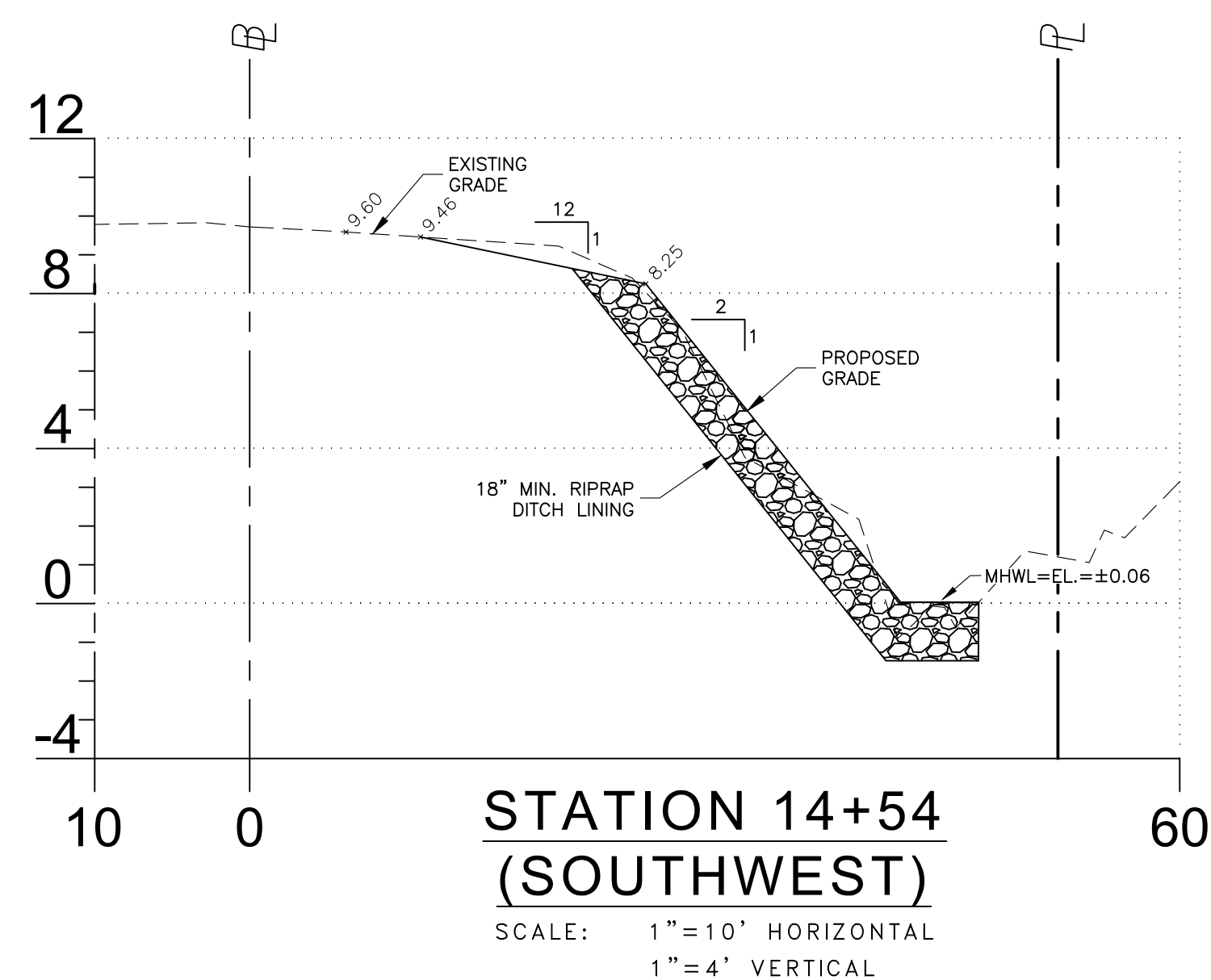
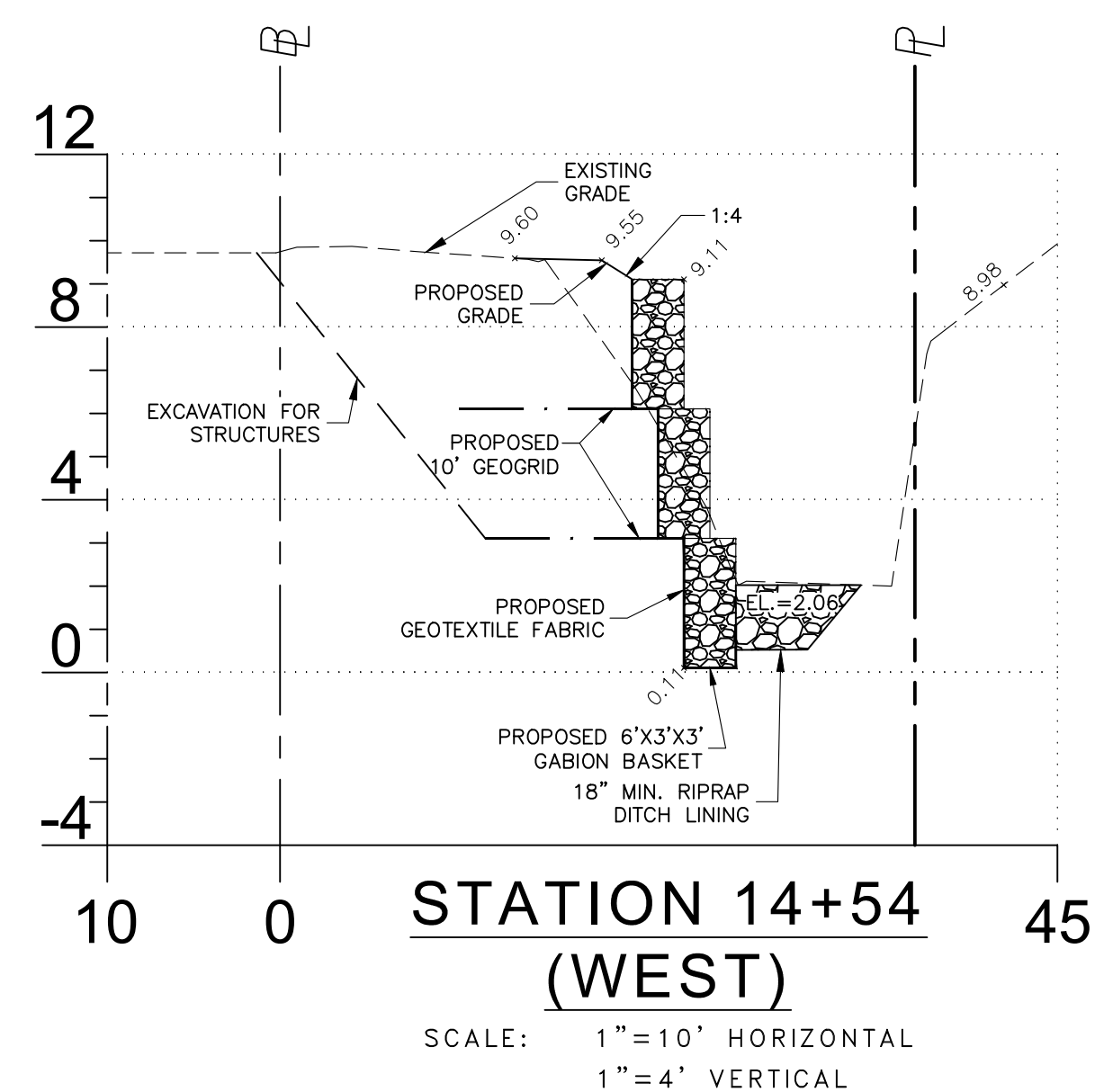
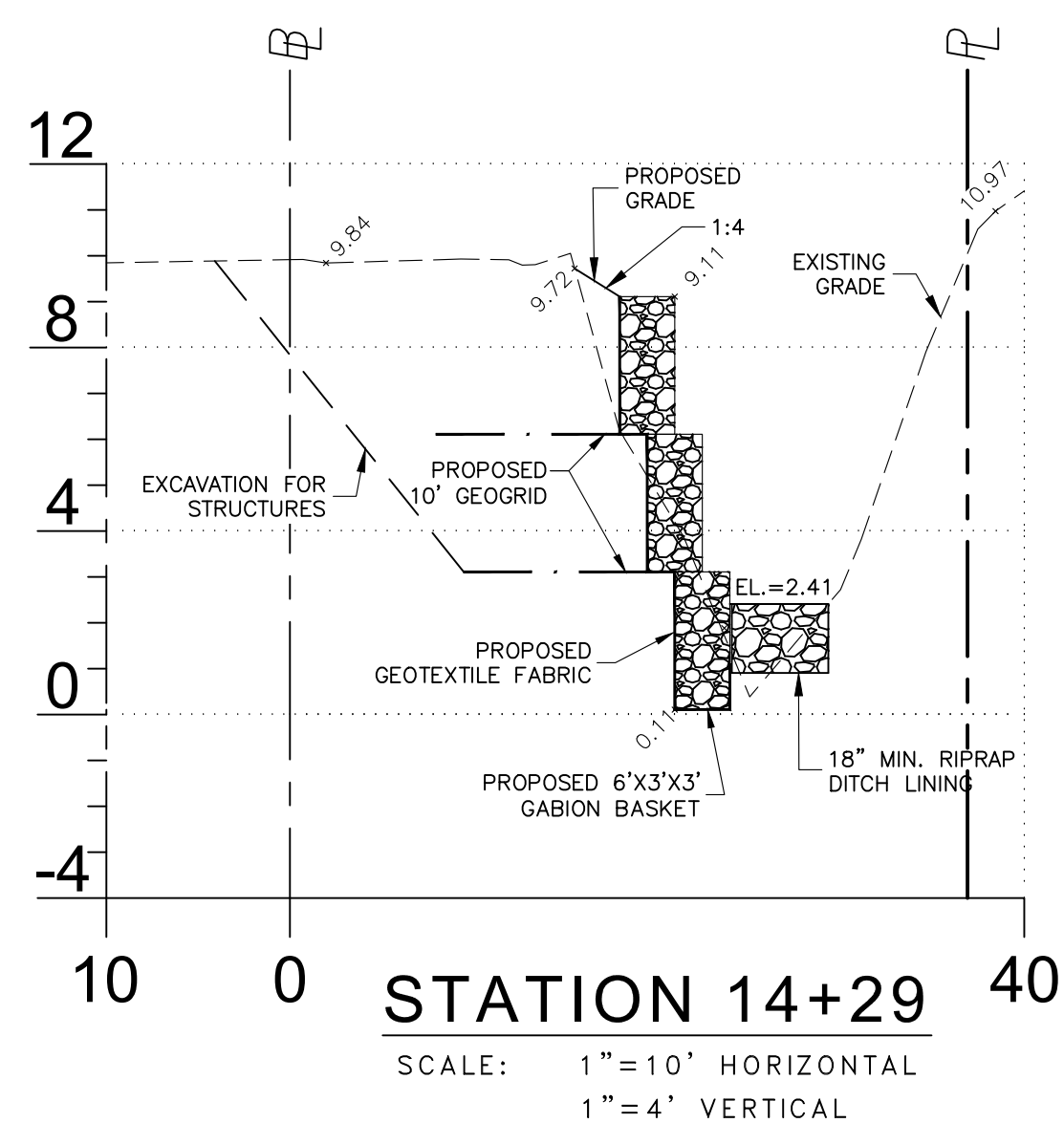
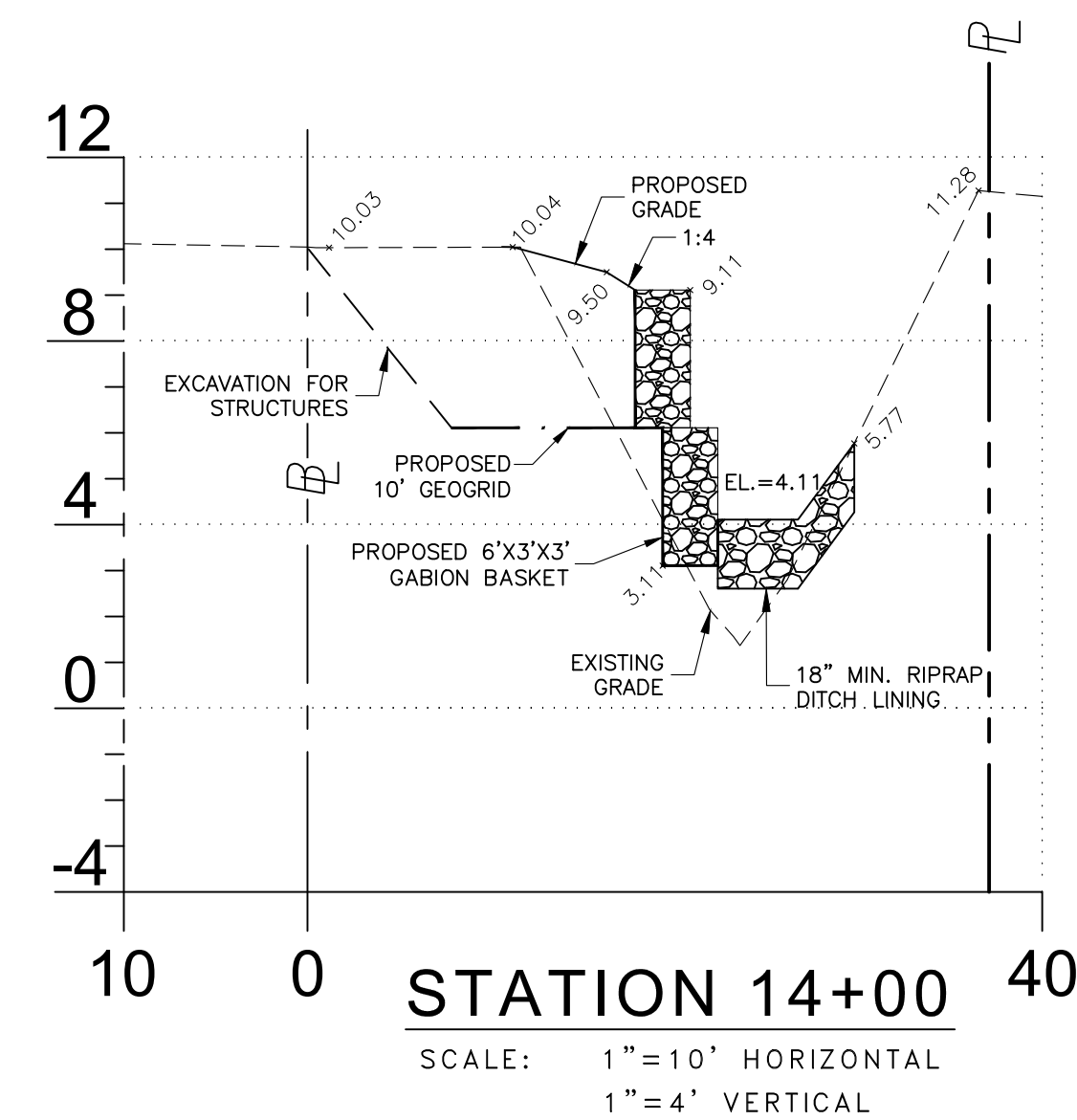
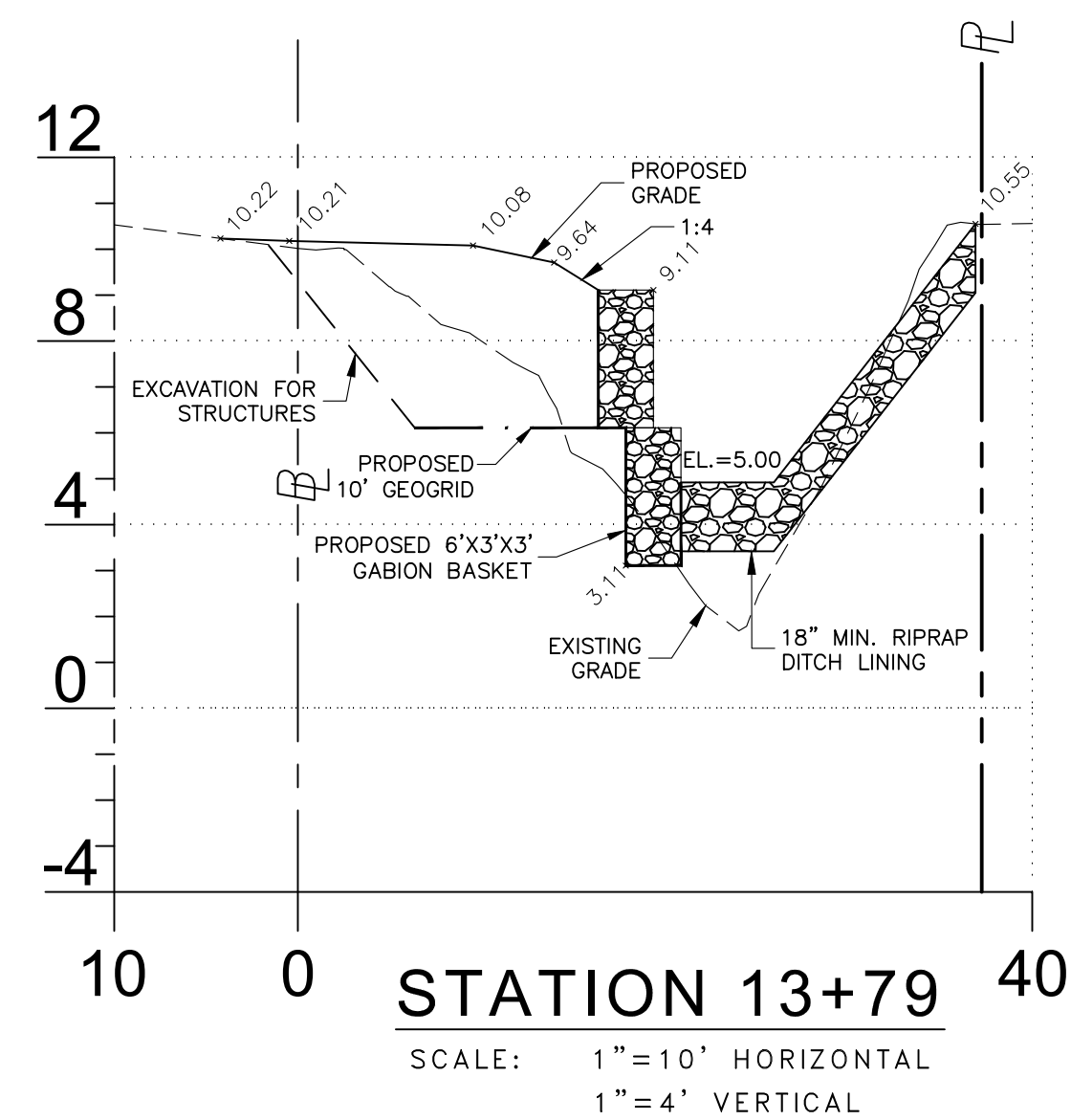
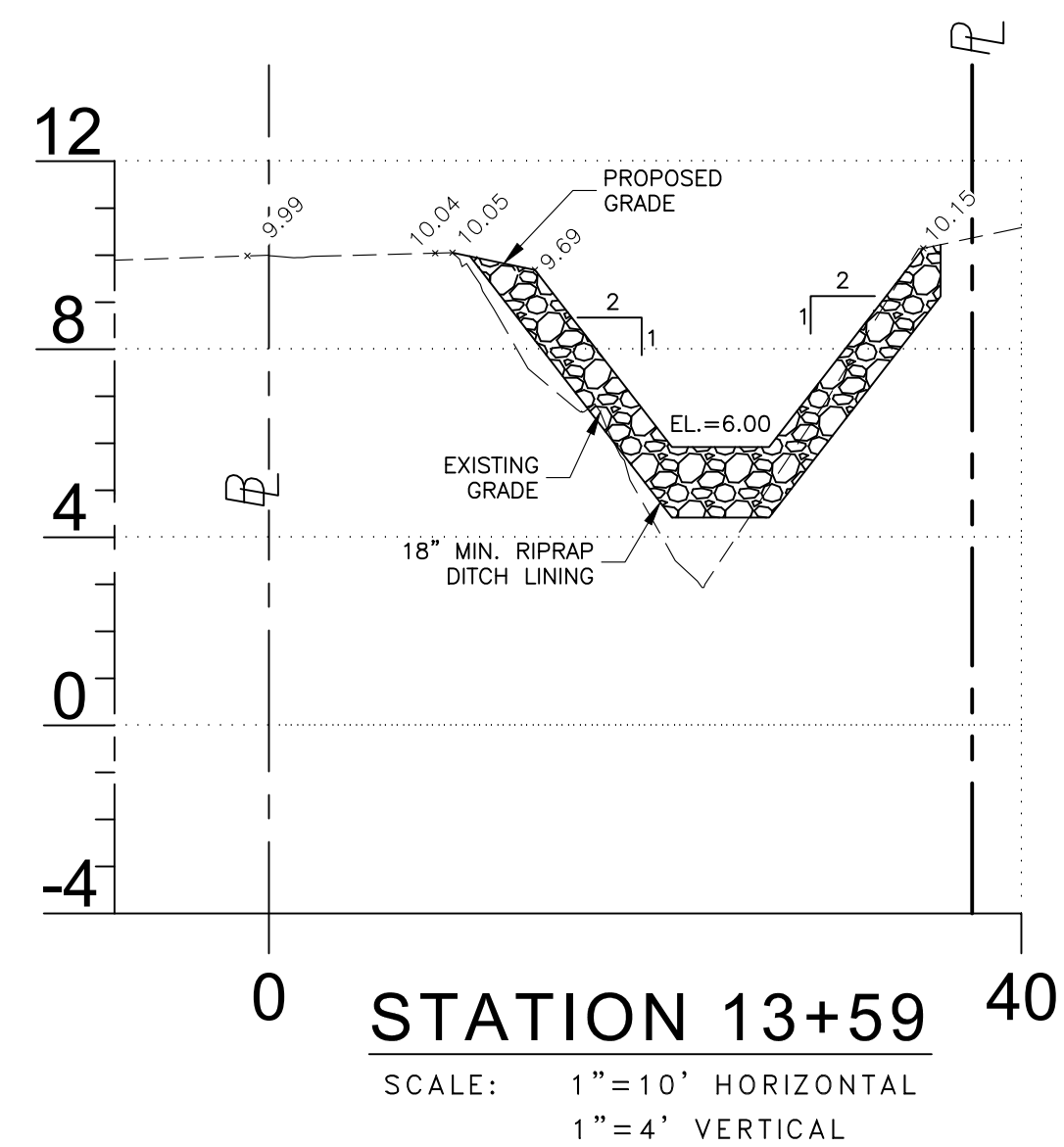
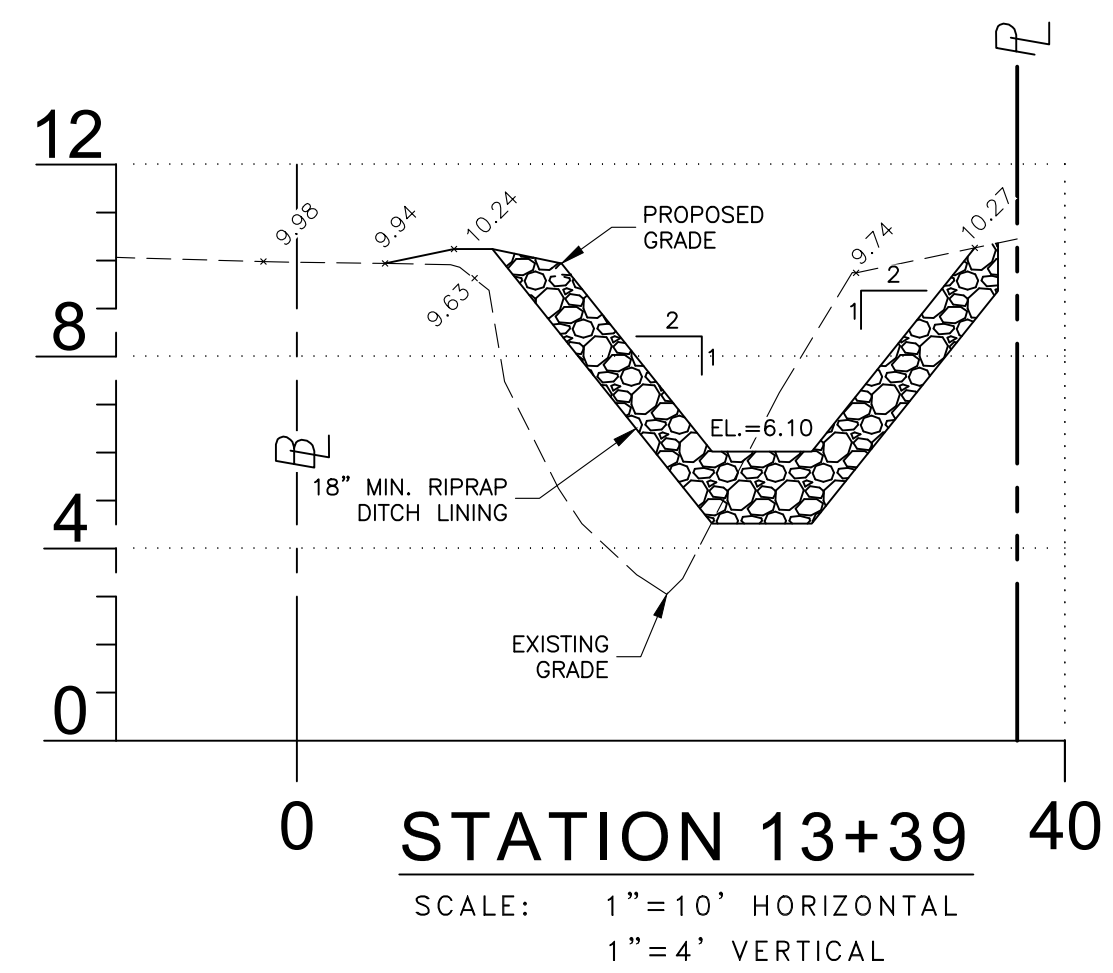
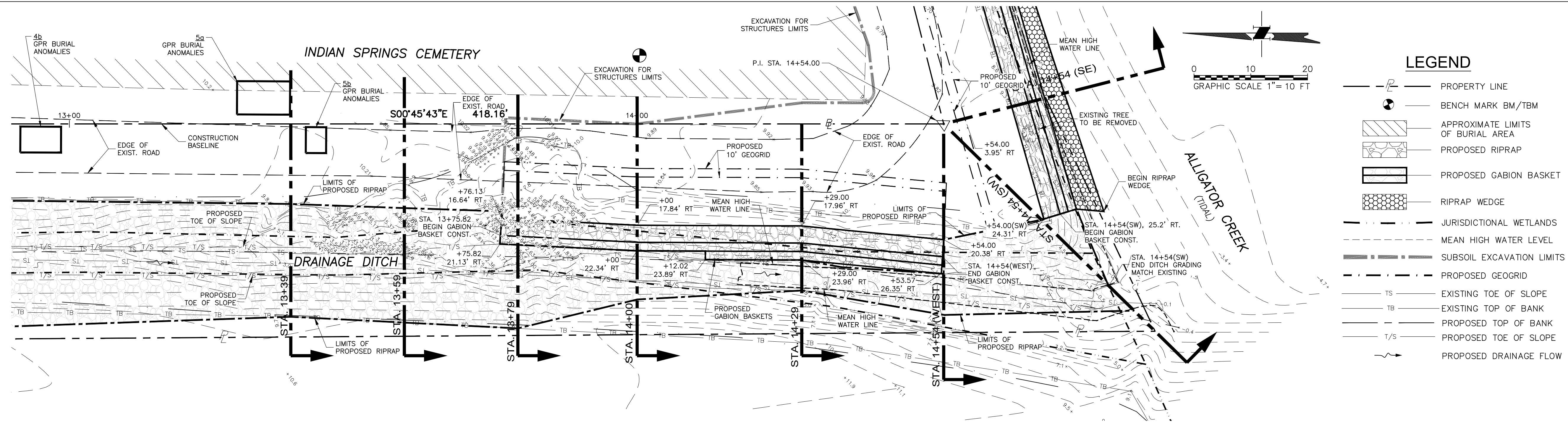
Revisions:


William L. Adams, P.E.  
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State of Florida  
CONSOR Engineers.

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**SHEET C12**

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**PLAN AND CROSS SECTIONS**  
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SHORELINE STABILIZATION PROJECT  
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FOR  
**CHARLOTTE COUNTY  
PURCHASING DIVISION**  
18500 MURDOCK CIRCLE, SUITE 344  
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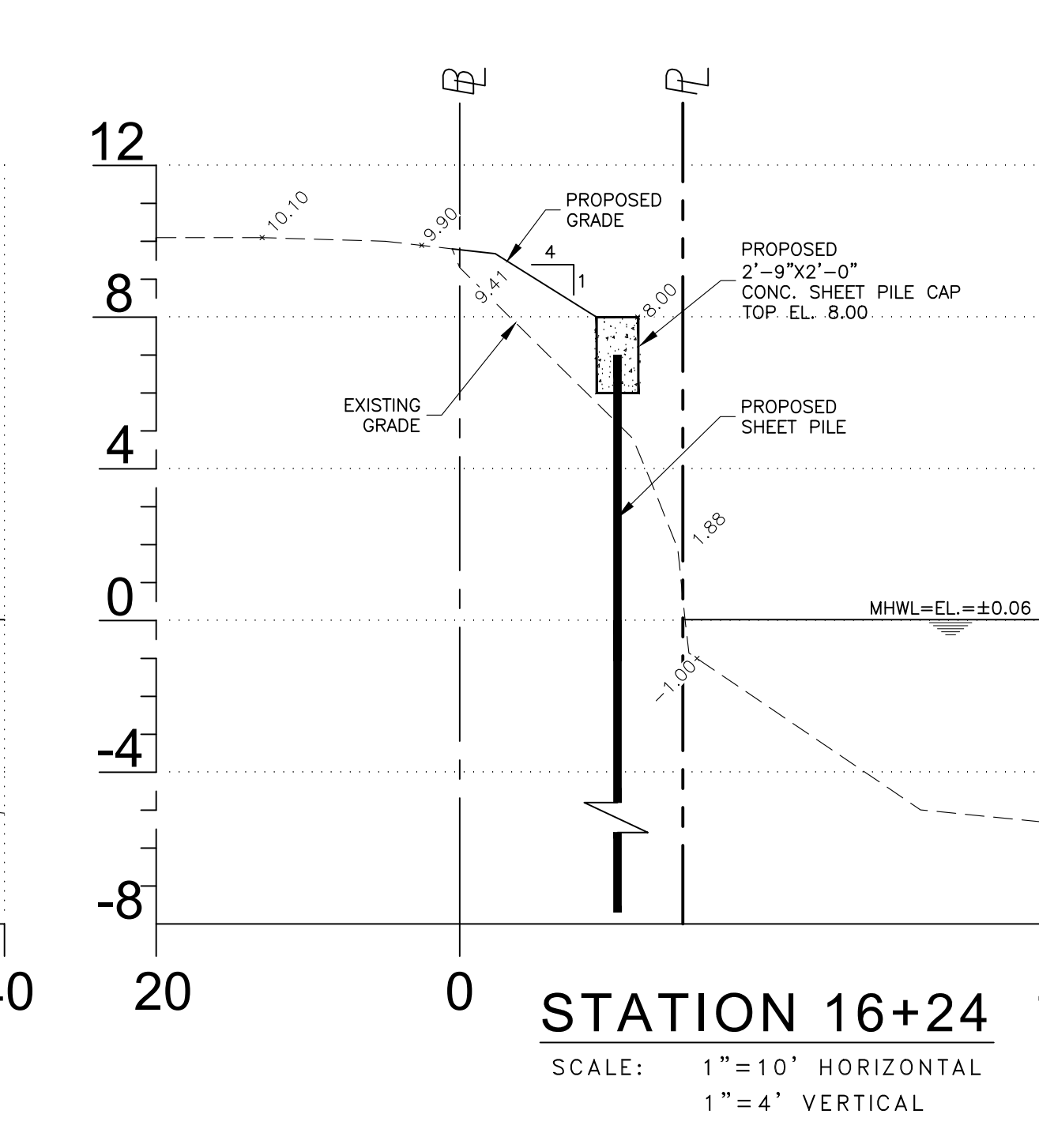
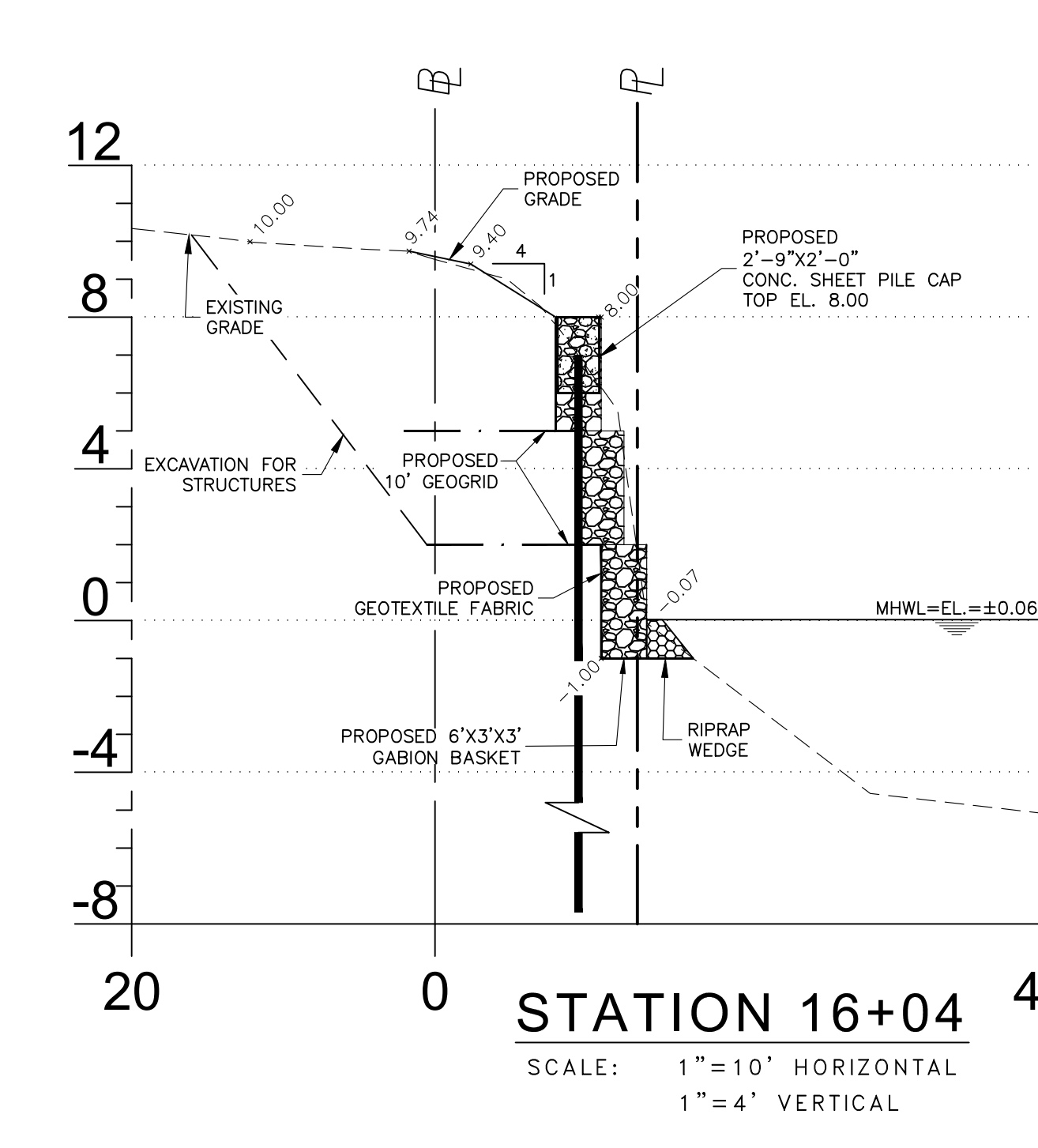
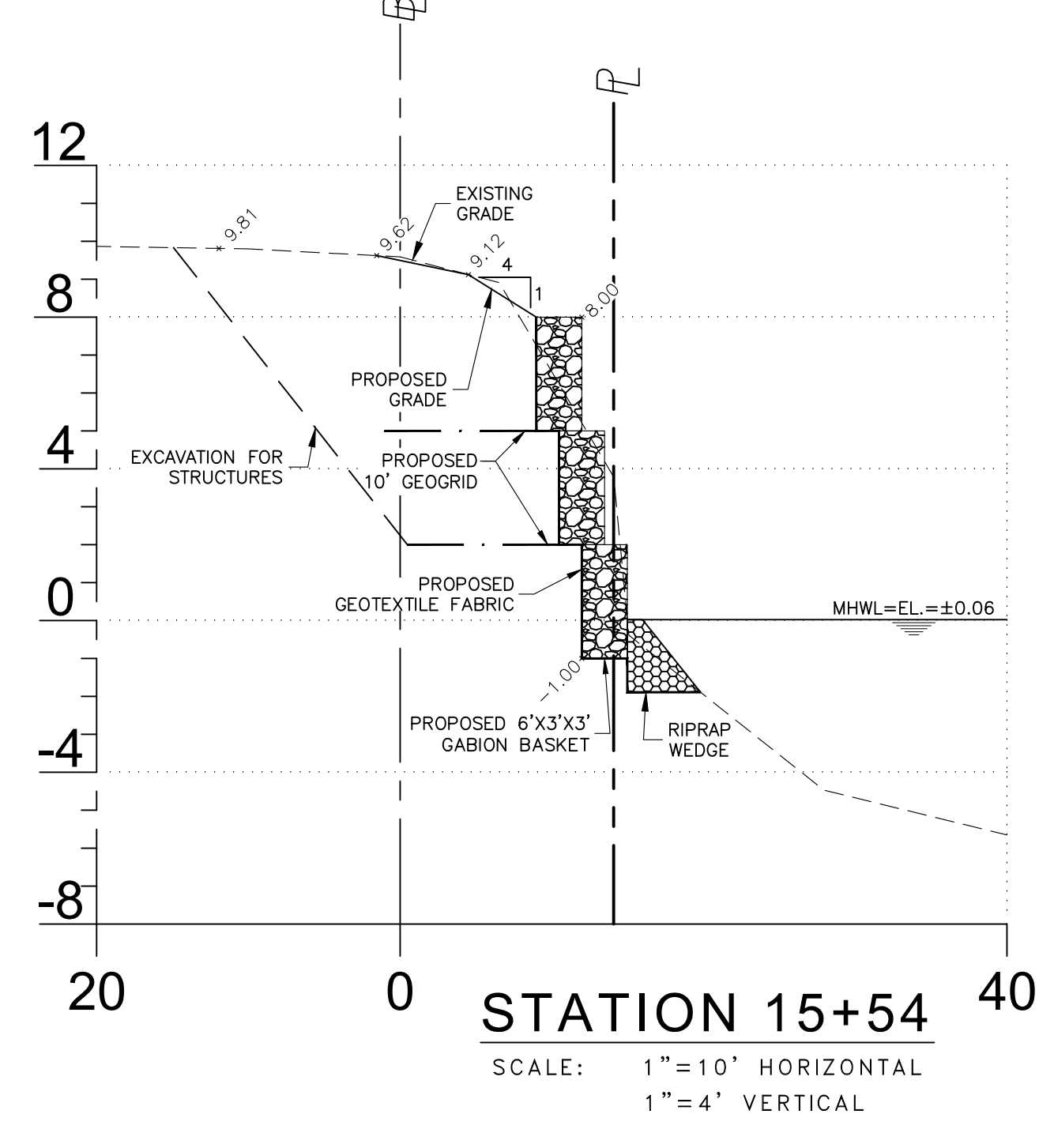
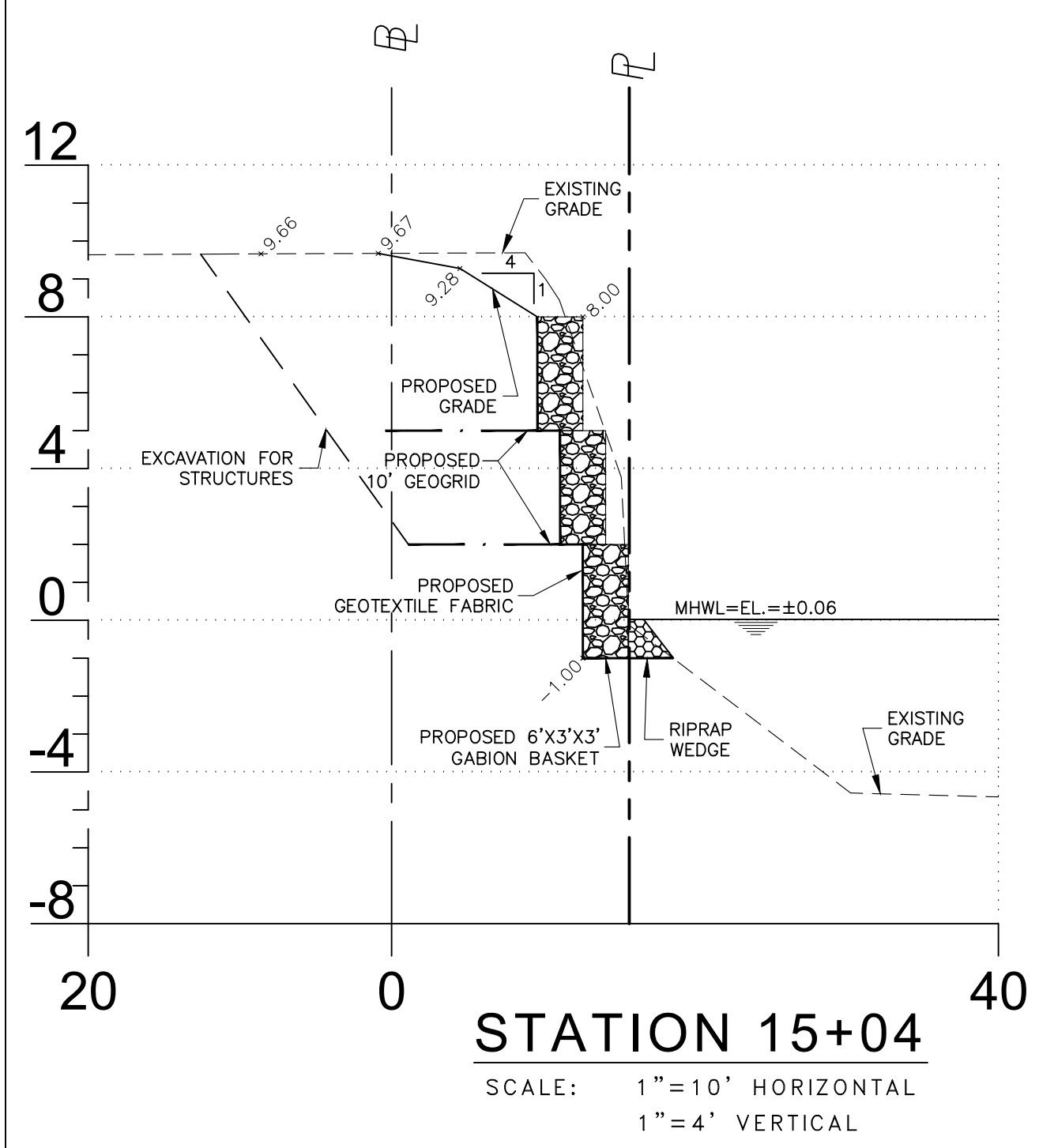
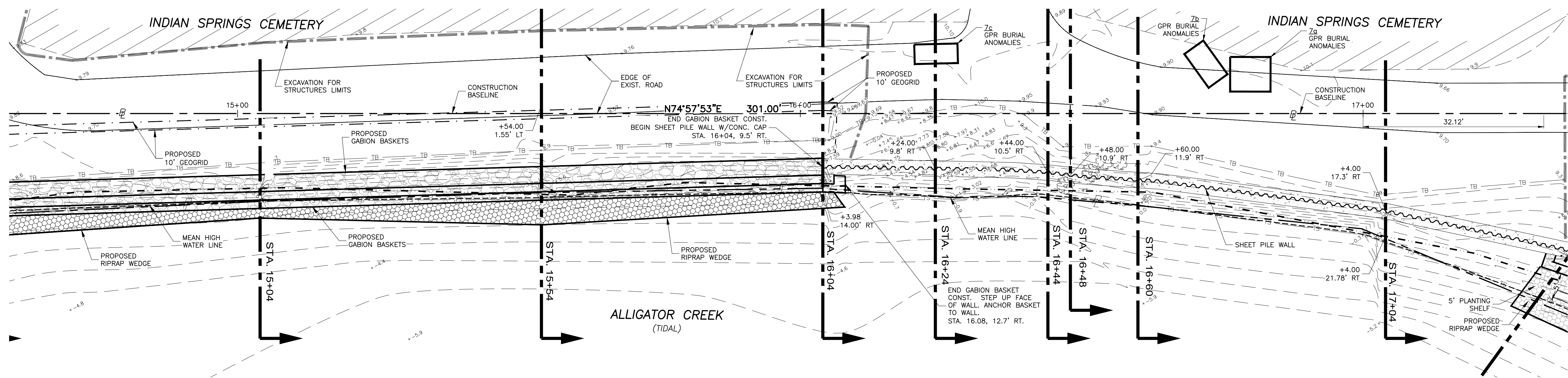
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Date:	05/20/24
Scale:	SHOWN
Drawn By:	FLS
Checked By:	WLA
Project #:	12855

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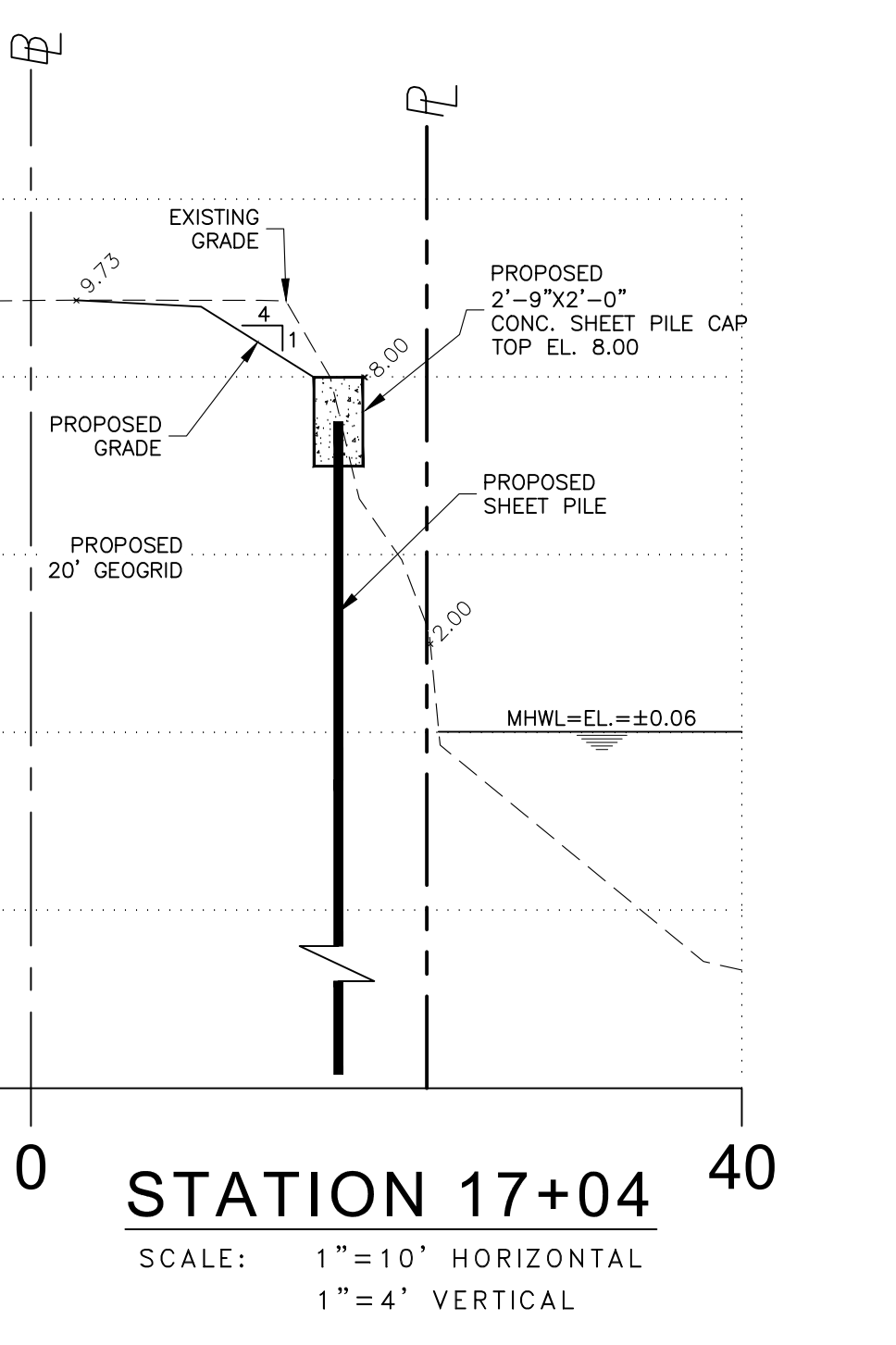
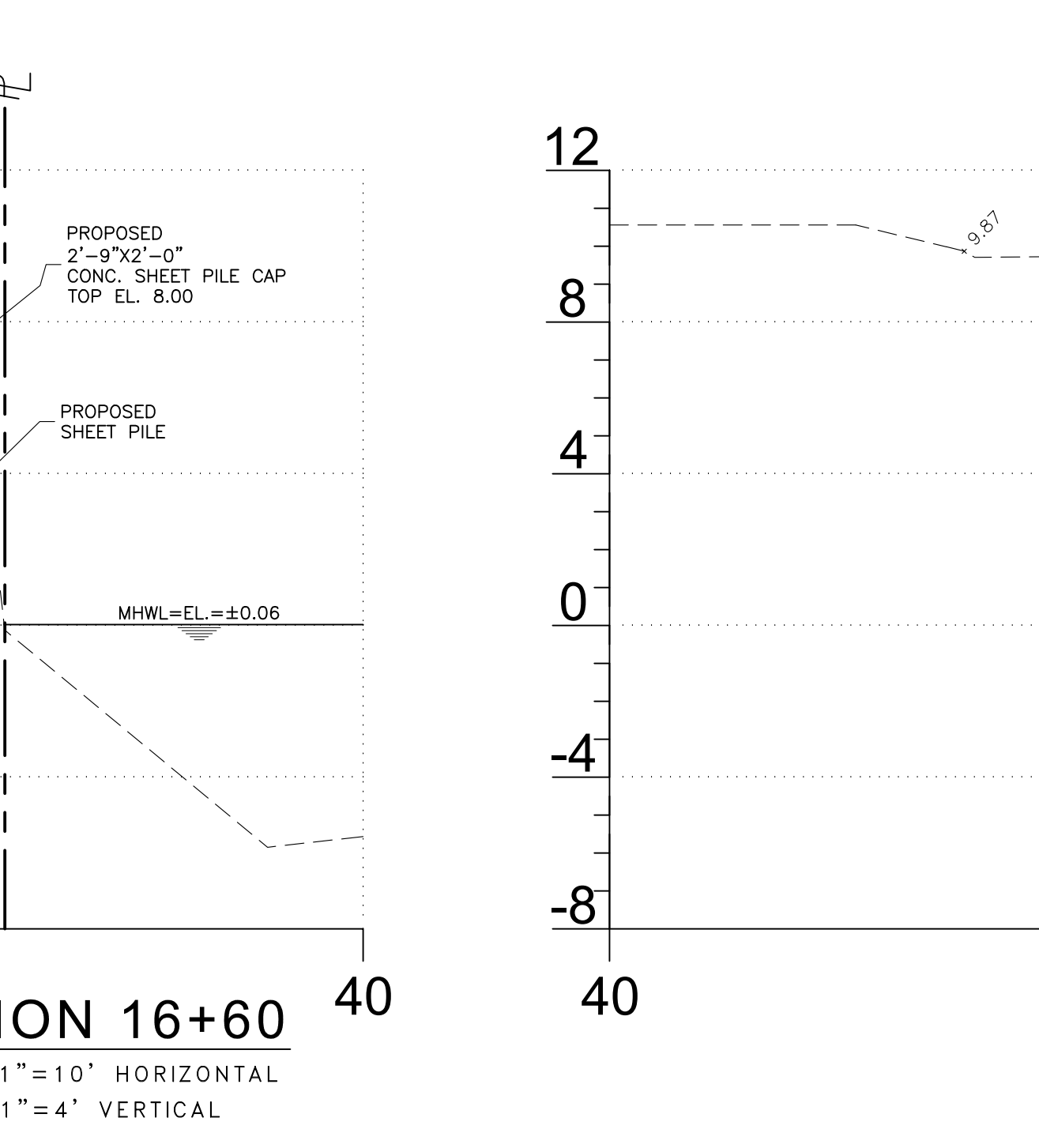
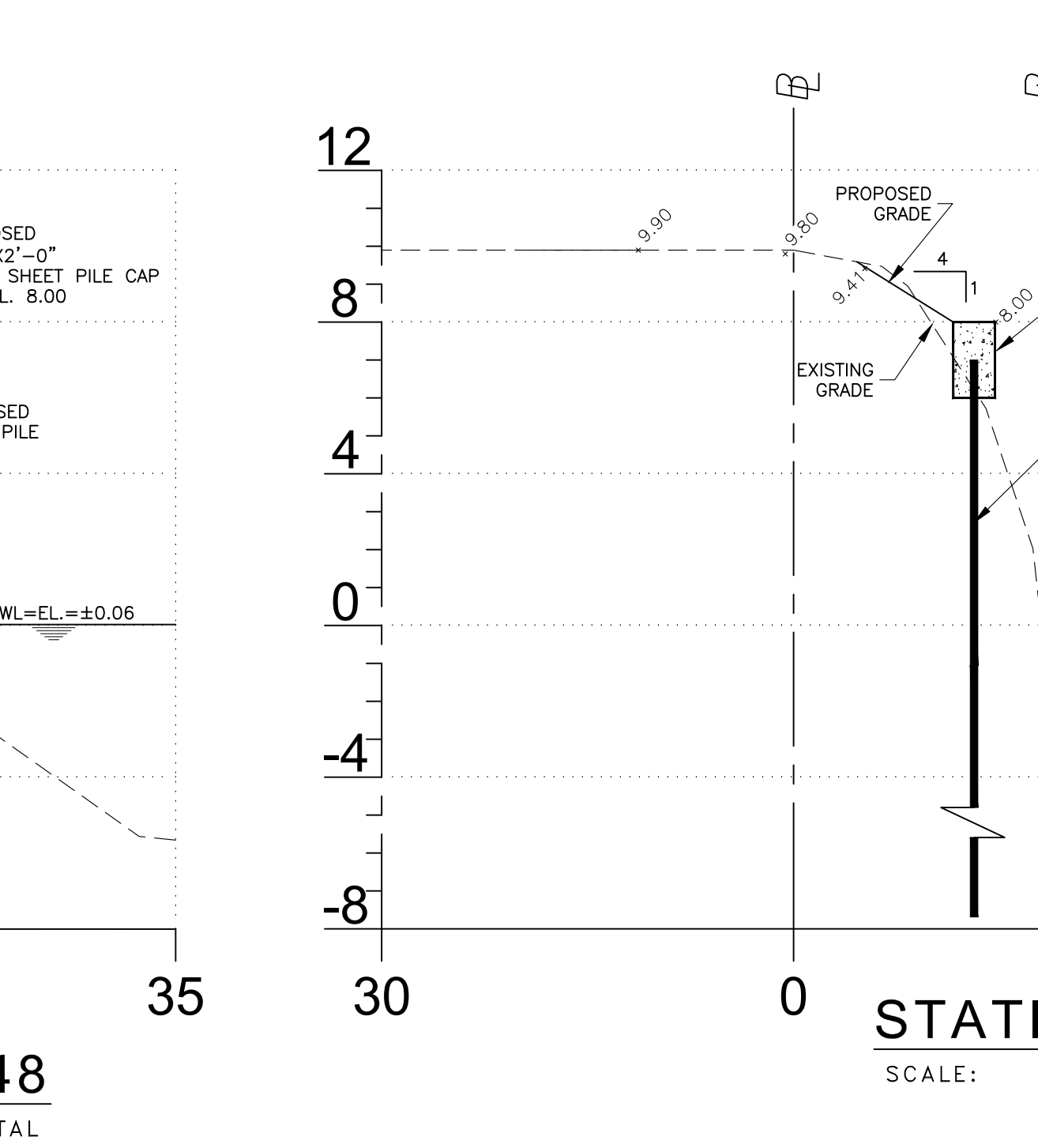
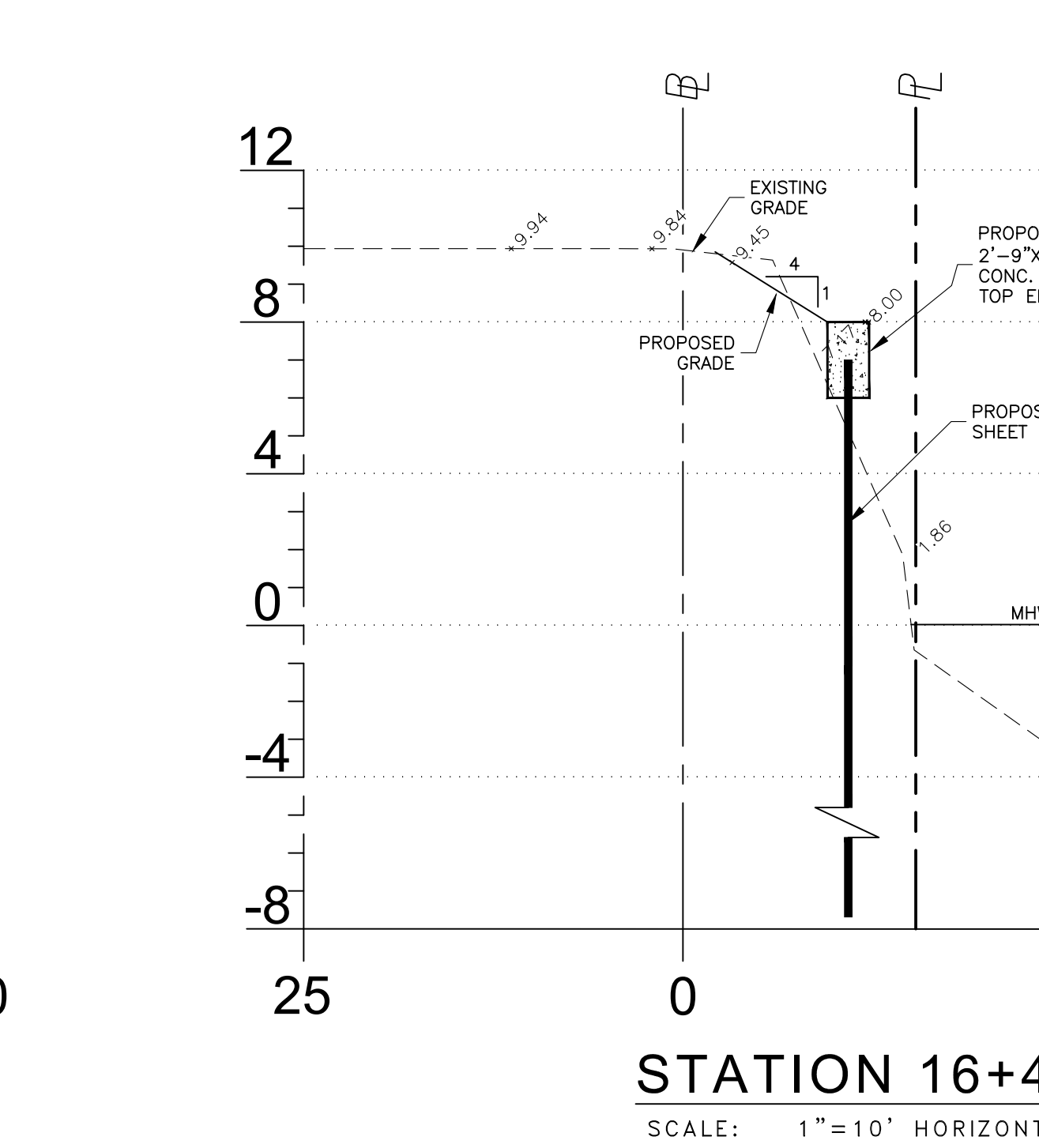
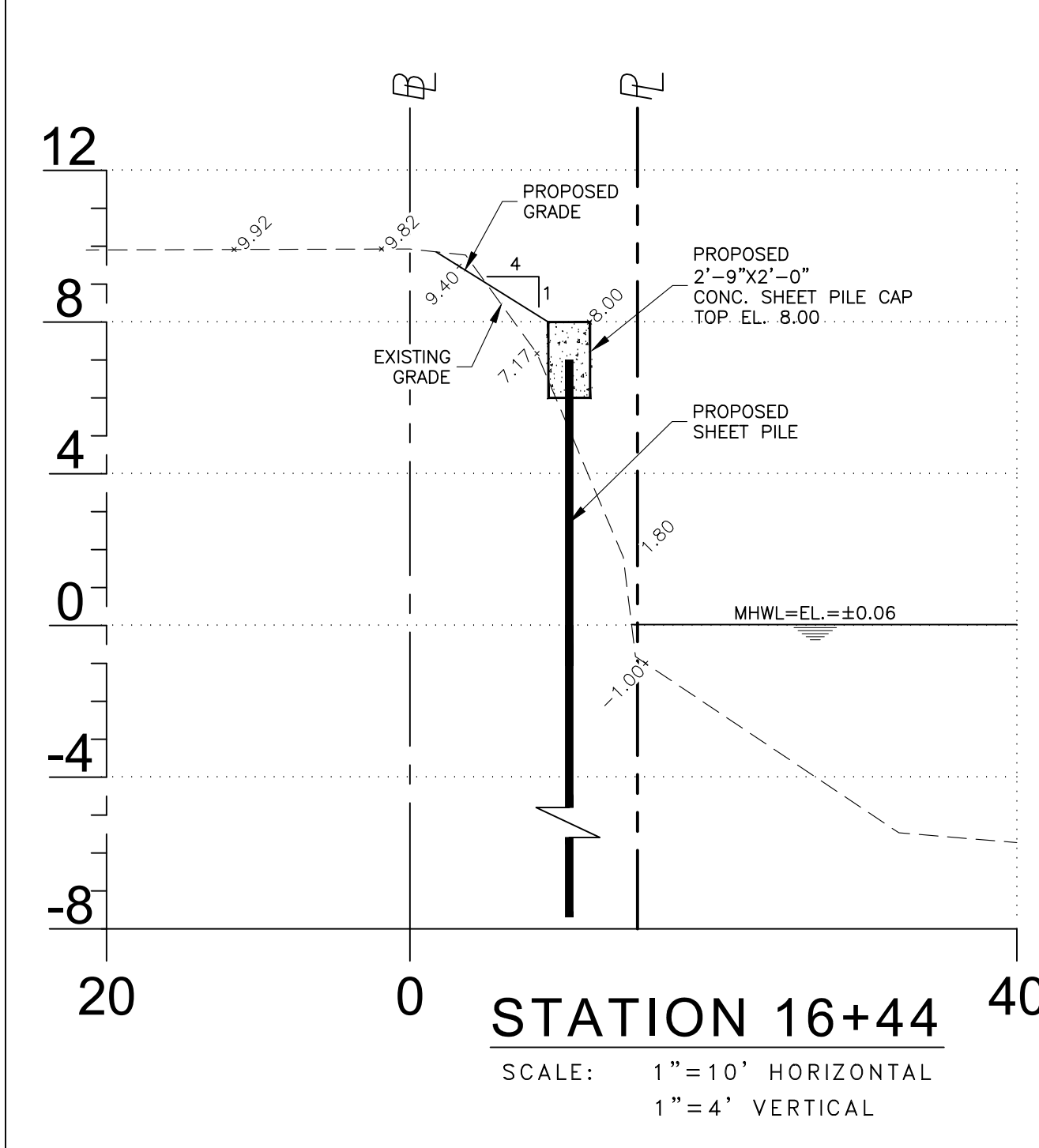
**SHEET C13**

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**LEGEND**

- PROPERTY LINE
- BENCH MARK BM/TBM
- APPROXIMATE LIMITS OF BURIAL AREA
- PROPOSED GABION BASKET
- PROPOSED STABILIZED SUBGRADE
- RIPRAP WEDGE
- SHEET PILE WALL W/CONC CAP
- JURISDICTIONAL WETLANDS
- MEAN HIGH WATER LEVEL
- SUBSOIL EXCAVATION LIMITS
- PROPOSED GEOGRID
- TS EXISTING TOE OF SLOPE
- TB EXISTING TOP OF BANK
- T/S PROPOSED TOE OF SLOPE
- PROPOSED DRAINAGE FLOW



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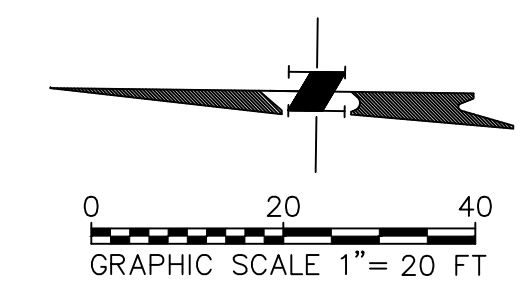
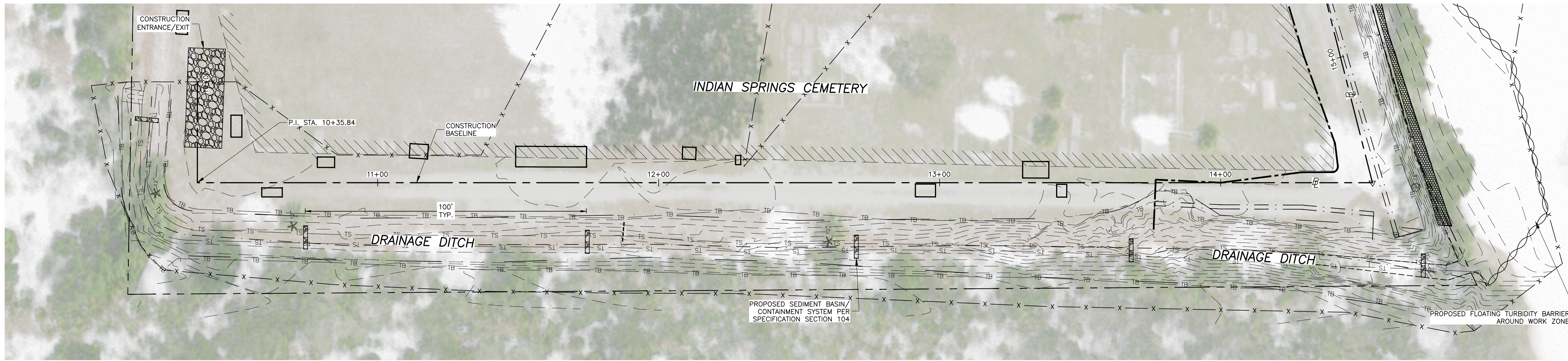
**PLAN AND CROSS SECTIONS**  
 INDIAN SPRINGS CEMETERY  
 SHORELINE STABILIZATION PROJECT  
 PUNTA GORDA, FLORIDA 33950

FOR  
 CHARLOTTE COUNTY  
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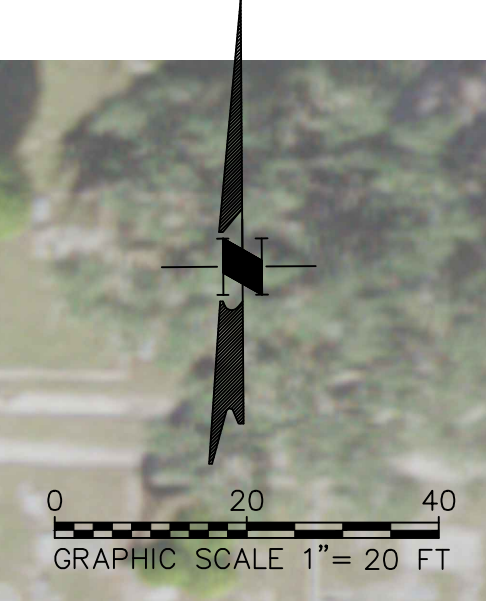
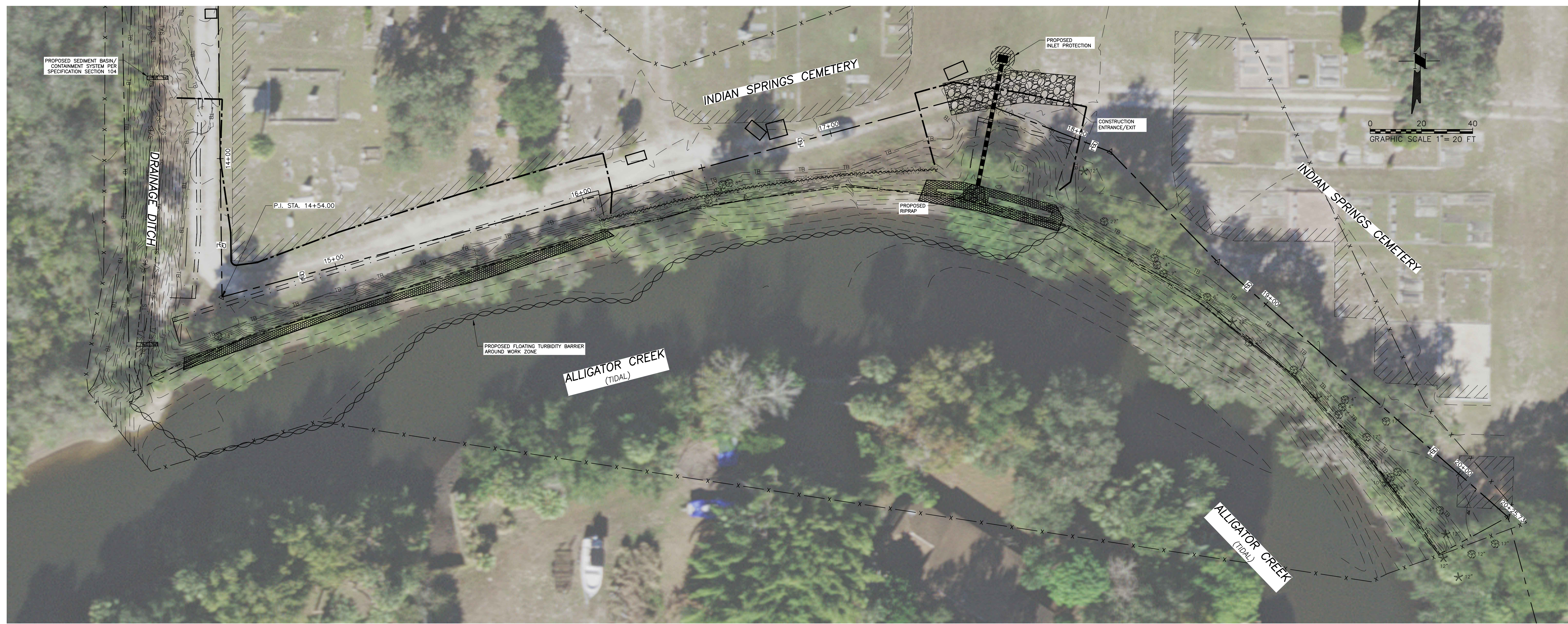
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Project #:	12855
SHEET C14	

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- LEGEND**
- PROPERTY LINE
  - BENCH MARK BM/TBM
  - EXISTING SHELL DRIVE
  - MEAN HIGH WATER LEVEL
  - EXISTING TOE OF SLOPE
  - EXISTING TOP OF BANK
  - FLOATING TURBIDITY BARRIER
  - SEDIMENT BASIN/CONTAINMENT SYSTEM
  - INLET PROTECTION



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TRANSPORTATION PLANNING AND DESIGN

**EROSION CONTROL PLAN**

INDIAN SPRINGS CEMETERY  
SHORELINE STABILIZATION PROJECT  
PUNTA GORDA, FLORIDA 33950

FOR  
CHARLOTTE COUNTY  
PURCHASING DIVISION  
18500 MURDOCK CIRCLE, SUITE 344  
PORT CHARLOTTE, FLORIDA 33948

Revisions:


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CONSOR Engineers.

Date: 05/20/24  
Scale: 1"=20'  
Drawn By: FLS  
Checked By: WLA  
Project #: 12855

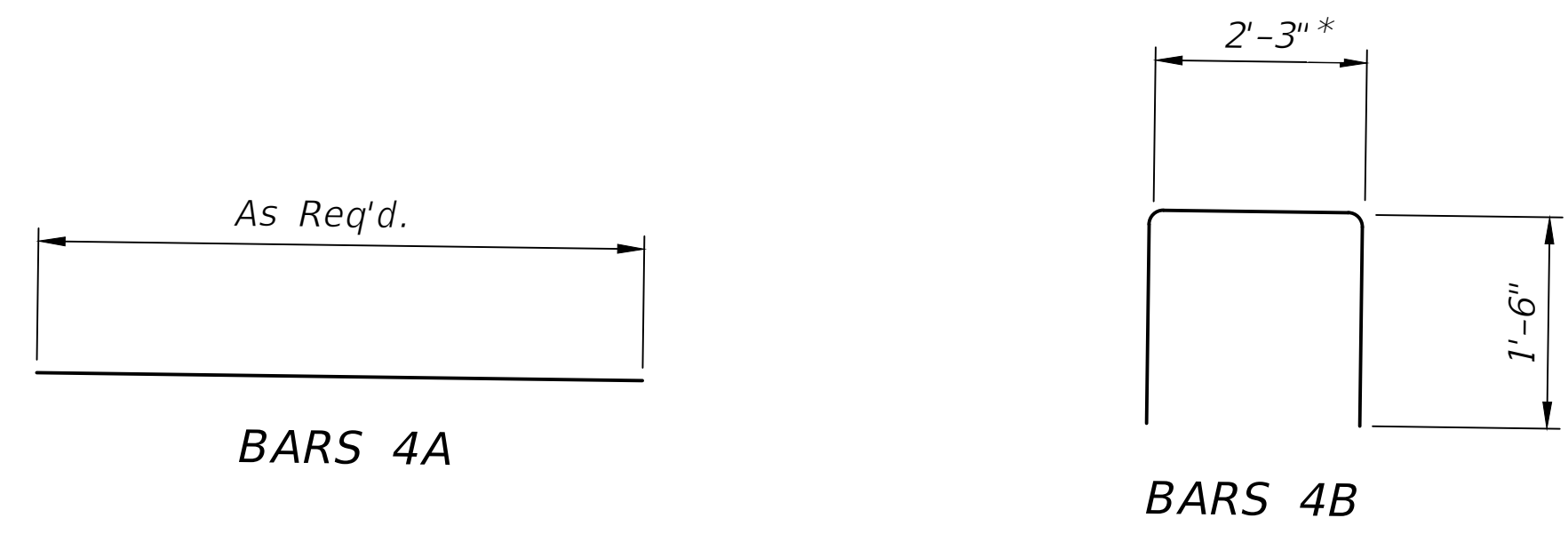
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STEEL SHEET PILE WALL, CANTILEVER DATA TABLE										Table Date 07-01-20
CONSTRUCTION INFORMATION					DESIGN PARAMETERS					
WALL LOCATION	MINIMUM * SECTION MODULUS (in <sup>2</sup> /ft)		MINIMUM REQUIRED MOMENT OF INERTIA (in <sup>4</sup> /ft)	MINIMUM WALL TIP ELEVATION (ft)	WALL TOP ELEV. (ft)	SOIL ELEVATION		WATER ELEVATION		DESIGN LIVE LOAD (psf)
	A-328 (ksi) fy=39 ksi	A-572 (ksi) fy=50 ksi				** FRONT OF WALL (ft)	BACK OF WALL (ft)	FRONT OF WALL (ft)	BACK OF WALL (ft)	
Full Length of Wall	134.8	172.8	363	-47.55	8.0	-2.0	8.0	-2.0	-1.0	220

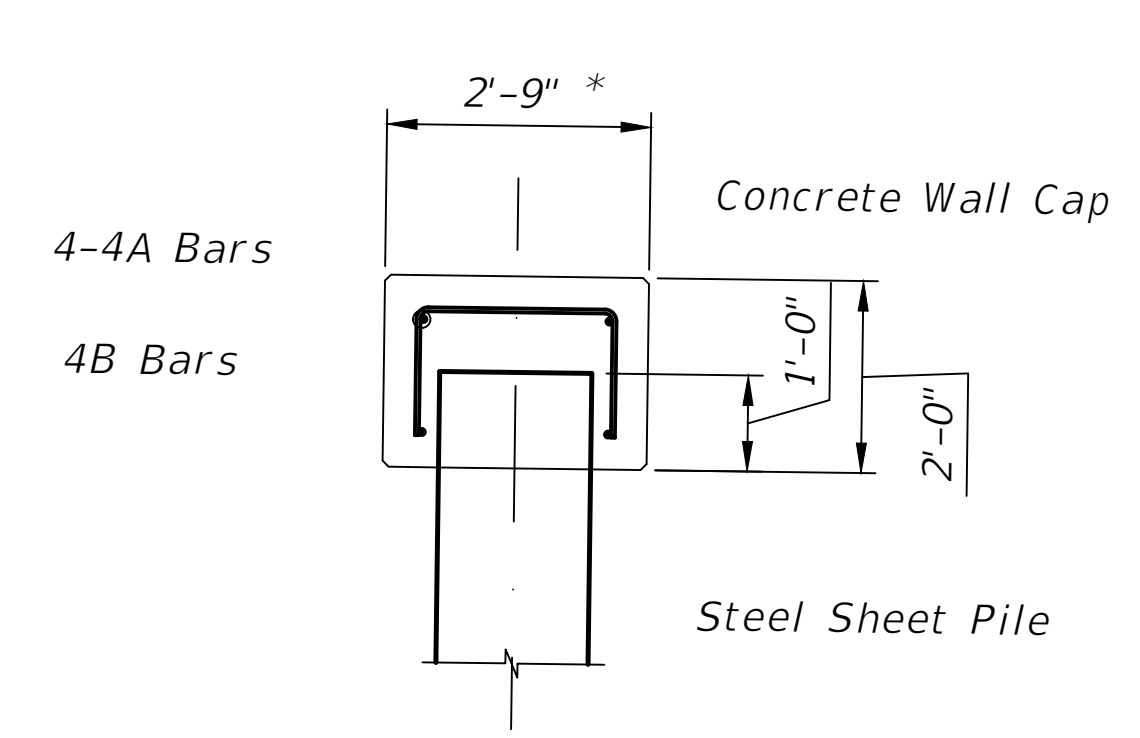
\* Minimum Section Modulus is based on Hot Rolled Sections. For Cold Rolled Sections, increase Minimum Section Modulus by 20%.  
 \*\* Minimum of Design Ground Surface of Design Scour Depth.

**NOTES:**

1. The Design Parameters indicated in this table were used in the sheet pile wall analysis. If the Contractor plans operations, which exceed the design parameters shown above, the Contractor's Specialty Engineer will redesign the wall to resist construction loads at a maximum deflection of 3 inches.

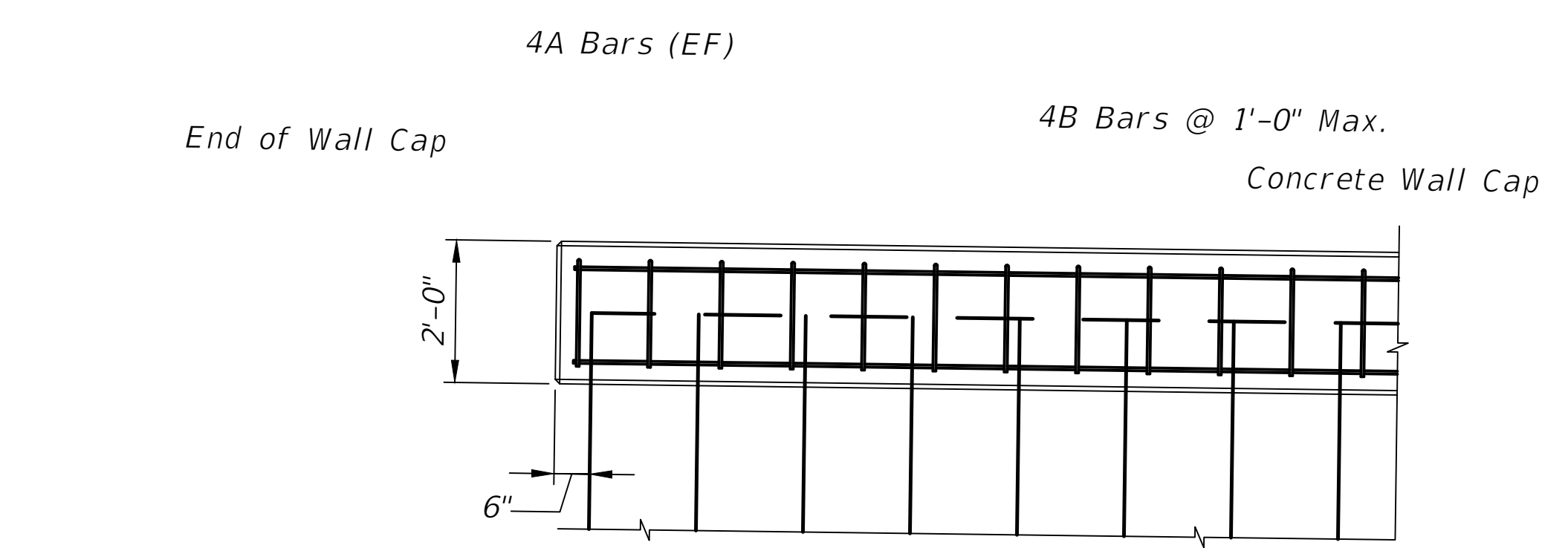


\* See Note 4.



**WALL CAP TYPICAL SECTION**

\* See Note 4.



**TYPICAL WALL CAP ELEVATION**

- NOTES:**
1. Minimum Reinforcing Splice Length = 2'-0".
  2. All exposed corners and edges of concrete are to be chamfered 3/4".
  3. Minimum Cover = 3" unless otherwise noted.
  4. Cap width shown as 2'-9" but can be adjusted as needed to fit the sheet pile section proposed by the contractor to maintain concrete cover and to maintain a minimum of 1" between the sheet pile and the 4A bars.

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**SHEET PILE WALL DETAILS**

INDIAN SPRINGS CEMETERY  
 SHORELINE STABILIZATION PROJECT  
 PUNTA GORDA, FLORIDA 33950

FOR

**CHARLOTTE COUNTY  
 PURCHASING DIVISION**  
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**SHEET S-1**

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