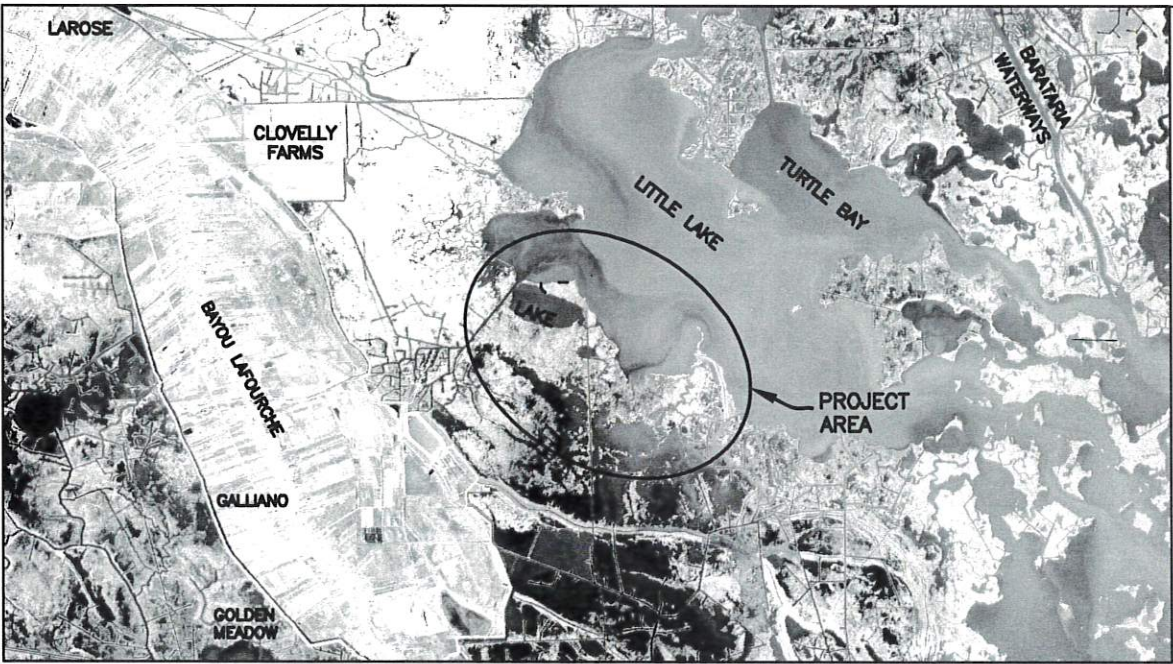
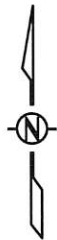


STATE OF LOUISIANA
COASTAL PROTECTION AND RESTORATION AUTHORITY

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3	PIPELINE LOCATION & KNOWN MAG ANOMOLIES
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5	PLAN/PROFILE ROCK DIKE SEGMENT 1&2
6	PLAN/PROFILE PERP. ROCK DIKE
7	TYPICAL CROSS SECTION ROCK DIKE
8	TYPICAL CROSS SECTION PERP. ROCK DIKE
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13	CROSS SECTIONS PERP. ROCK DIKE
14	DREDGE & ROCK QUANTITIES

LITTLE LAKE SHORELINE PROTECTION
AND MARSH CREATION PROJECT (BA-0037)
Segment 1 & 2 Demolition & Perpendicular Rock Dike Construction
LAFOURCHE PARISH



CHIEF, OPERATIONS DIVISION

[Signature]
REGIONAL MANAGER, OPERATIONS DIVISION

[Signature]
PROJECT ENGINEER, OPERATIONS DIVISION

LICENSURE CLASSIFICATION REQUIREMENTS

SEE LA RS.37 FOR CLASSIFICATIONS
HEAVY CONSTRUCTION

				LOUISIANA DEPARTMENT OF NATURAL RESOURCES COASTAL RESTORATION DIVISION 150 TERRACE AVENUE BATON ROUGE, LOUISIANA 70802	BA-37 Segment 1 & 2 Demolition & Perpendicular Rock Dike Construction		TITLE SHEET
					STATE PROJECT NUMBER: BA-37		
					FEDERAL PROJECT NUMBER: BA-37		
REV.	DATE	DESCRIPTION	BY		DRAWN BY: B.J.H.	DESIGNED BY: B.J.H.	APPROVED BY: B.J.H.
				SHEET 1 OF 14			

GENERAL NOTES

1. ALL ELEVATIONS ARE GIVEN IN THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88) U. S. SURVEY FEET (FEET) GEOID 12B. ALL HORIZONTAL COORDINATES ARE GIVEN IN THE NORTH AMERICAN DATUM OF 1983 (NAD83, LOUISIANA STATE PLANE SOUTH ZONE U. S. FEET) AND REFERENCE BENCHMARKS BA02–SM–02 AND BA37–SM–02.

BA02–SM–02

N: 361,933.738
E: 3,630,318.661
ELEVATION: 2.148 FEET

BA37–SM–02

N: 350,270.240
E: 3,655,746.100
ELEVATION: 2.427 FEET

2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING PIPELINE AND UTILITY OPERATORS 5 WORKING DAYS PRIOR TO MOBILIZATION. ALL PIPELINES AND UNDERGROUND UTILITIES SHALL BE MARKED WITH BUOYS BY THE CONTRACTOR. THE CONTRACTOR SHALL MAINTAIN BUOYS DURING CONSTRUCTION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN 50 FOOT CLEARANCES FROM THE PIPELINE UTILITIES AS SET FORTH IN THE PLAN DRAWINGS OR IN THE BID DOCUMENTS. SEE SP–6 "LAND OWNER REQUIREMENTS". NO EXCAVATION IS ALLOWED WITHIN ANY AREA RESTRICTED BY PIPELINE COMPANIES AND SET FORTH ON THE PLANS. PIPELINE LOCATIONS SHOWN ON SHEET 3 ARE APPROXIMATIONS. THE ACTUAL LOCATIONS MAY VARY FROM THESE SHOWN AND IT IS POSSIBLE SOME MAY EXIST THAT HAVE NOT BEEN SHOWN. THE OWNER IS NOT LIABLE FOR EXACT LOCATIONS. THE CONTRACTOR SHALL BE ON ALERT FOR SUCH UTILITIES, PIPELINES, AND STRUCTURES AND REPORT THEM IMMEDIATELY TO THE CPRA PROJECT ENGINEER OR ASSIGNED PROJECT REPRESENTATIVE. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UTILITIES, PIPELINES, AND STRUCTURES PRIOR TO COMMENCING ANY WORK. THE CONTRACTOR MUST CALL LOUISIANA ONE CALL AT 1–800–272–3020 AT LEAST 5 WORKING DAYS PRIOR TO MOBILIZATION AND FOLLOW ALL LOUISIANA REGULATIONS SET FORTH IN THE LOUISIANA UNDERGROUND UTILITIES AND FACILITIES DAMAGE PREVENTION LAW. DURING CONSTRUCTION, THE ONE CALL PROCESS MUST BE REPEATED EVERY 20 DAYS.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NAVIGATING FROM A NAVIGABLE WATER BODY TO THE PROJECT AREA. DEPENDING ON THE CONTRACTOR'S ACCESS ROUTE TO THE PROJECT AREA, THERE MAY BE OTHER PIPELINES. THE CONTRACTOR SHALL CALL LOUISIANA ONE CALL TO LOCATE PIPELINES AND COORDINATE WITH THE PIPELINES FOR ACCESS. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR NAVIGATING WITHIN THE LIMITS OF THE PROJECT PLAN AREA AND DREDGING ONLY WITHIN THE LIMITS OF THE FLOATATION CHANNELS. THE CPRA PROJECT ENGINEER OR HIS REPRESENTATIVE SHALL MONITOR THE EQUIPMENT LOCATION DURING CONSTRUCTION.
- 4 ALL EQUIPMENT SHALL BE FLOATING AT ALL TIMES DURING THE TRANSIT TO AND FROM THE PROJECT SITE.
5. THE CONTRACTOR SHALL CONTACT MR. RANDY MOERTLE (985) 856–3630 (RMOERTLE@BELLSOUTH.NET) AND LES RUSSO (225) 342–4600 (Les.Rosso@LA.GOV) AT LEAST FIVE (5) WORKING DAYS PRIOR TO ACCESSING THE SITE TO OBTAIN PERMISSION TO ACCESS THE SITE.
6. THE CONTRACTOR SHALL CONTACT MR. RANDY MOERTLE AT LEAST FIVE (5) WORKING DAYS PRIOR TO ACCESS FOR PERMISSION TO USE CLOVELLY FARMS BOAT LAUNCH.
7. PLANS AND BID DOCUMENTS ARE COMPLEMENTARY; WHAT IS REQUIRED IN ONE IS AS BINDING AS IF REQUIRED BY ALL. CLARIFICATIONS AND INTERPRETATIONS OF, OR NOTIFICATIONS OF MINOR VARIATIONS AND DEVIATIONS IN THE CONTRACT DOCUMENTS, WILL BE ISSUED BY THE ENGINEER.
8. ELEVATIONS SHOWN ON PLANS ARE BASED ON SURVEYS PERFORMED ON 2/18/16, 11/01/16, & 11/02/16 BY MORRIS P. HEBERT, INC. FOR CPRA.
9. THE ROCK ALIGNMENT MAY BE REVISED BY THE ENGINEER PRIOR TO CONSTRUCTION TO REFLECT CHANGES IN FIELD CONDITIONS.
10. INITIAL PLACEMENT OF TEMPORARY WARNING SIGNS SHALL BE 10.0' OUTSIDE OF THE SPOIL PLACEMENT. TEMPORARY WARNING SIGNS AND EXISTING WARNING SIGNS WITH PILINGS SHALL BE REMOVED PRIOR TO DEMOBILIZATION. SEE SHEET 06 FOR INSTALLATION LOCATIONS OF PERMANENT SIGNS.
11. ANY DAMAGE TO EXISTING U.S. COAST GUARD NAVIGATION AIDS OR PRIVATE NAVIGATION AIDS SHALL BE REPAIRED BY THE CONTRACTOR TO U.S. COAST GUARD STANDARDS AT THE EXPENSE OF THE CONTRACTOR.
12. ESTIMATED ROCK QUANTITIES SHOWN ON SHEET 14 OF THIS PLAN SET ARE FOR BIDDING PURPOSES ONLY AND WERE CALCULATED ACCORDING TO CONDITIONS SURVEYED FROM 2/18/16, 11/01/16, & 11/02/16. ROCK QUANTITIES WERE CALCULATED USING THE END AREA METHOD OF SECTIONS FROM CROSS SECTION TO CROSS SECTION. IN AREAS WHERE SURVEY DATA WAS UNAVAILABLE, THE EXISTING CONDITIONS WERE EXTENDED AT THE SAME ELEVATION AS THE LAST MEASURED POINT.
13. MATERIAL STOCKPILED LAKEWARD OF FLOATATION CHANNELS SHALL BE DEPOSITED IN AREAS SHOWN ON THE PLANS AND PLACED SUCH THAT IT IS READILY AVAILABLE TO BE USED TO BACK FILL FLOATATION CHANNELS. ONLY MATERIAL DREDGED FROM FLOATATION SHALL BE BACK FILLED INTO SAID CHANNELS.
14. WATER ELEVATIONS SHOWN ON CROSS SECTION SHEETS WERE TAKEN FROM THE CRMS STATION 6303–H01 DATA FROM 2016. WATER SURFACE ELEVATIONS ARE PRESENTED IN GEOID 12A. THE 90TH% WATER LEVEL OBSERVATION INDICATES THAT, ON AVERAGE, 90% OF WATER OBSERVATIONS FOR 2016 FELL BELOW 1.34 FT. SIMILARLY, THE 10TH% WATER LEVEL OBSERVATION INDICATES THAT 10% OF OBSERVATIONS WERE ABOVE 0.04 FT.
15. THE CONTRACTOR SHALL PERFORM A MAGNETOMETER SURVEY OF THE PROJECT AREA FEATURES PRIOR TO CONSTRUCTION, INCLUDING FLOATATION AREAS, TEMPORARY SPOIL AREAS, AND PERPENDICULAR ROCK DIKE ALIGNMENT. DRAWINGS SHOWING THE TRACK LINES, ANY MAGNETOMETER HITS, COORDINATES, AMPLITUDE, SIGNATURE TYPE, AND SIGNATURE WIDTH OF ALL MAGNETOMETER HITS SHALL BE SUBMITTED TO THE ENGINEER PRIOR TO MOBILIZATION. MAGNETOMETER LINES SHALL BE RUN ALONG THE CENTERLINE OF THE FLOATATION CHANNELS, TEMPORARY SPOIL PLACEMENT AREAS, AND PERPENDICULAR ROCK DIKE ALIGNMENT. ADDITIONAL MAGNETOMETER LINES SHALL BE RUN PERPENDICULAR TO THE ROCK ALIGNMENTS, FLOATATION CHANNELS, AND TEMPORARY SPOIL AREAS AT 250.0' INTERVALS AND SHALL EXTEND A MINIMUM OF 50.0' PAST PROJECT FEATURES. THE CONTRACTOR MUST ALSO VERIFY THE LOCATIONS OF ALL PIPELINES WITHIN THE PIPELINE CORRIDOR AT A 250.0' RADIUS OF THE BEGINNING OF ROCK DIKE SEGMENT NO. 1 AS SHOWN ON SHEET 3. THE DRAWING SHALL BE STAMPED BY A REGISTERED PROFESSIONAL SURVEYOR LICENSED IN LOUISIANA. SEE SECTION TS 8.5 "PRE–CONSTRUCTION SURVEY" FOR ADDITIONAL REQUIREMENTS

F:\ENGINEERING\BASINS\BA\BA-37\G -SEGMENT 1 & 2 DEMOLITION & DIKE CREATION\G.1 -
ENGINEERING AND DESIGN\G.1.K - PRELIMINARY DESIGN REPORTS & PLANS

REV.	DATE	DESCRIPTION	BY

SUMMARY OF ESTIMATED QUANTITIES

BASE BID

ITEM No.	DESCRIPTION	UNIT	ESTIMATED QUANTITY
1	MOBILIZATION AND DEMOBILIZATION	LUMP SUM	1
2	ROCK RECOVERY AND PLACEMENT	TON	9,000
3	FLOTATION DREDGING	LUMP SUM	1
4	WOVEN GEOTEXTILE FABRIC	SQ. YARDS	5,500
5	TEMPORARY WARNING SIGNS	EACH	8
6	EXISTING WARNING SIGN REMOVAL	EACH	3
7	PERMANENT WARNING SIGNS	EACH	5
8	PERPENDICULAR ROCK DIKE SETTLEMENT PLATE	LUMP SUM	1
9	CONSTRUCTION SURVEYS	LUMP SUM	1

ALTERNATIVE 1

ITEM No.	DESCRIPTION	UNIT	ESTIMATED QUANTITY
10	ADDITION FOR 250 LB CLASS ROCK	TON	900

QUANTITIES SHOWN ARE FOR BID PURPOSES ONLY AND WERE CALCULATED ACCORDING TO CONDITIONS SURVEYED FROM 2/18/16, 11/01/16, & 11/02/16. THE OWNER RESERVES THE RIGHT TO ADJUST QUANTITIES HIGHER OR LOWER WITHOUT ADJUSTMENT OF THE UNIT PRICE. WOVEN GEOTEXTILE FABRIC QUANTITY ESTIMATED BASED ON A 500.0 FT PERPENDICULAR ROCK DIKE.



COASTAL PROTECTION AND RESTORATION AUTHORITY

150 TERRACE AVENUE
BATON ROUGE, LOUISIANA 70801

BA-37 Segment 1 & 2 Demolition
& Perpendicular Rock Dike Construction

GENERAL NOTES

STATE PROJECT NUMBER: BA-37

FEDERAL PROJECT NUMBER: BA-37

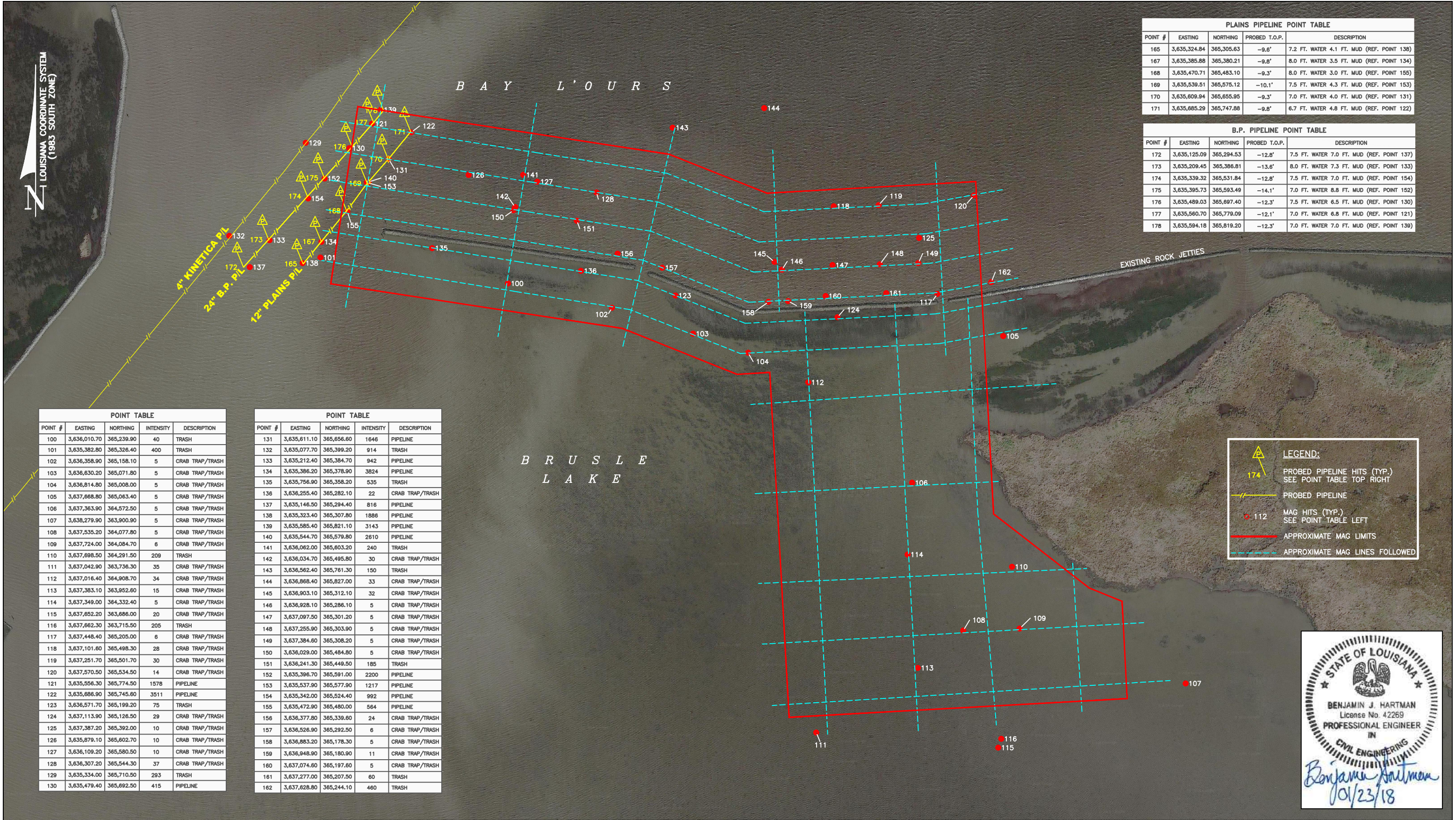
DATE: 01/2018

DRAWN BY: B.J.H.

DESIGNED BY: B.J.H.

APPROVED BY: B.J.H.

SHEET 2 OF 14



F:\ENGINEERING\BASINS\BA\BA-37\G -SEGMENT 1 & 2 DEMOLITION & DIKE CREATION\G.1 - ENGINEERING AND DESIGN\G.1.K - PRELIMINARY DESIGN REPORTS & PLANS

REV.	DATE	DESCRIPTION	BY

SURVEY PERFORMED
NOVEMBER 2016
BY MORRIS P. HEBERT

COASTAL PROTECTION AND
RESTORATION AUTHORITY
450 LAUREL STREET
BATON ROUGE, LOUISIANA 70801

DRAWN BY: B.J.H.

DESIGNED BY: B.J.H.

BA-37 Segment 1 & 2 Demolition
& Perpendicular Rock Dike Construction

STATE PROJECT NUMBER: BA-0037

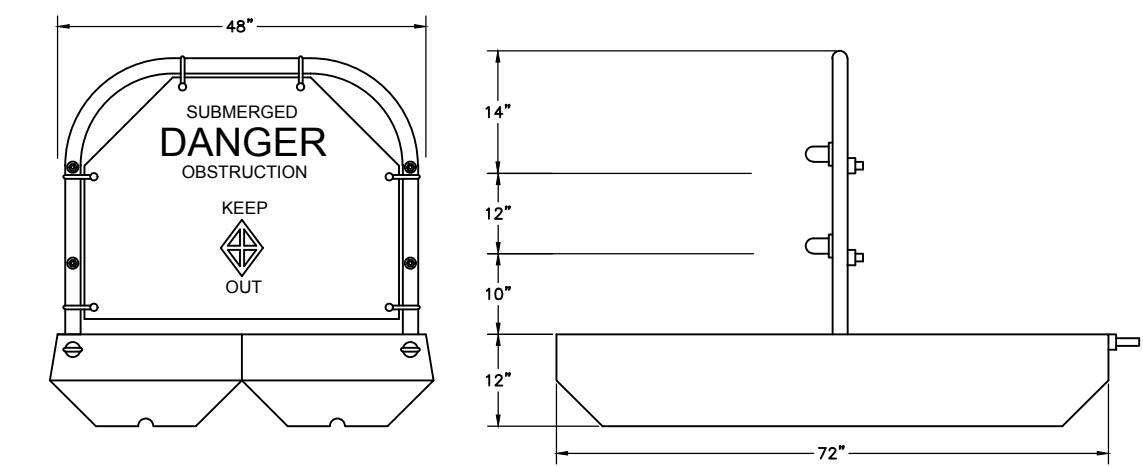
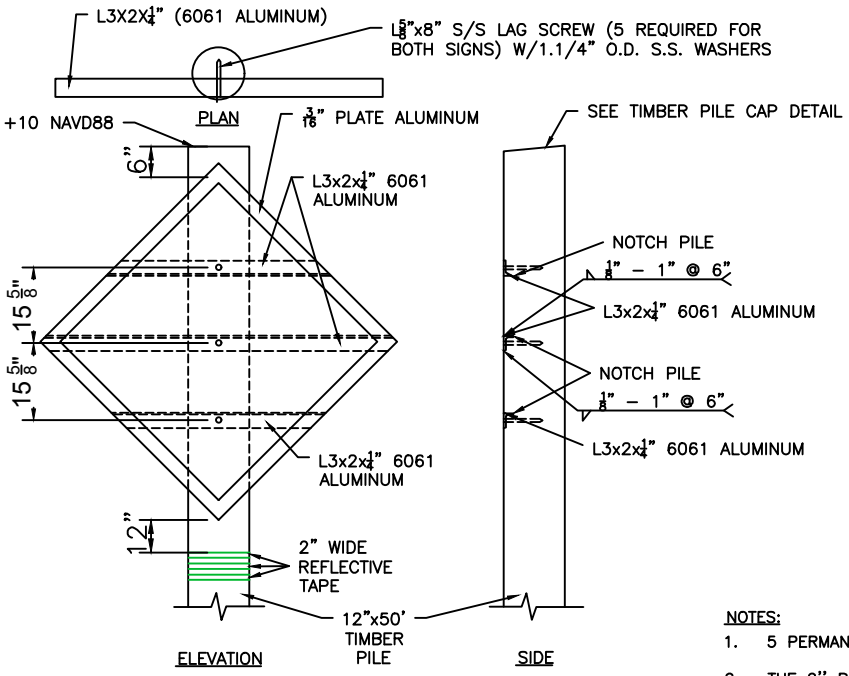
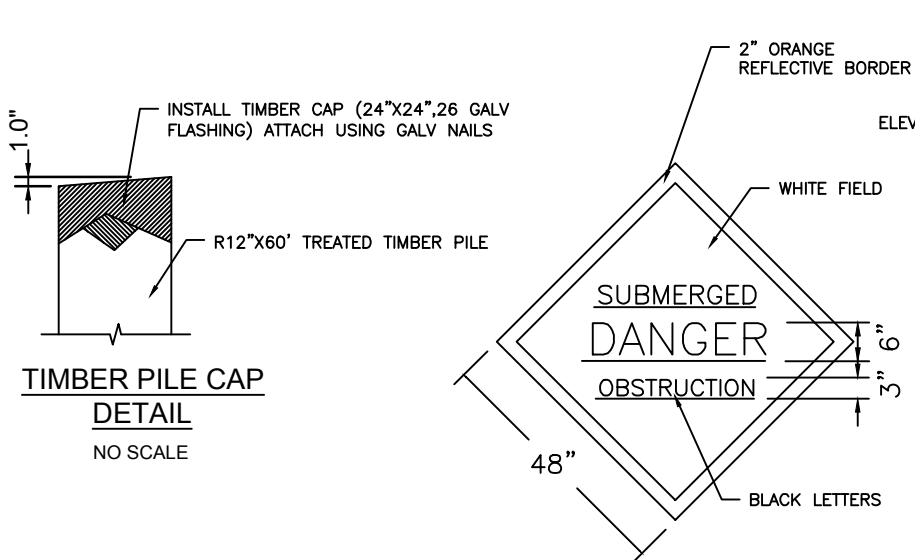
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APPROVED BY: B.J.H.

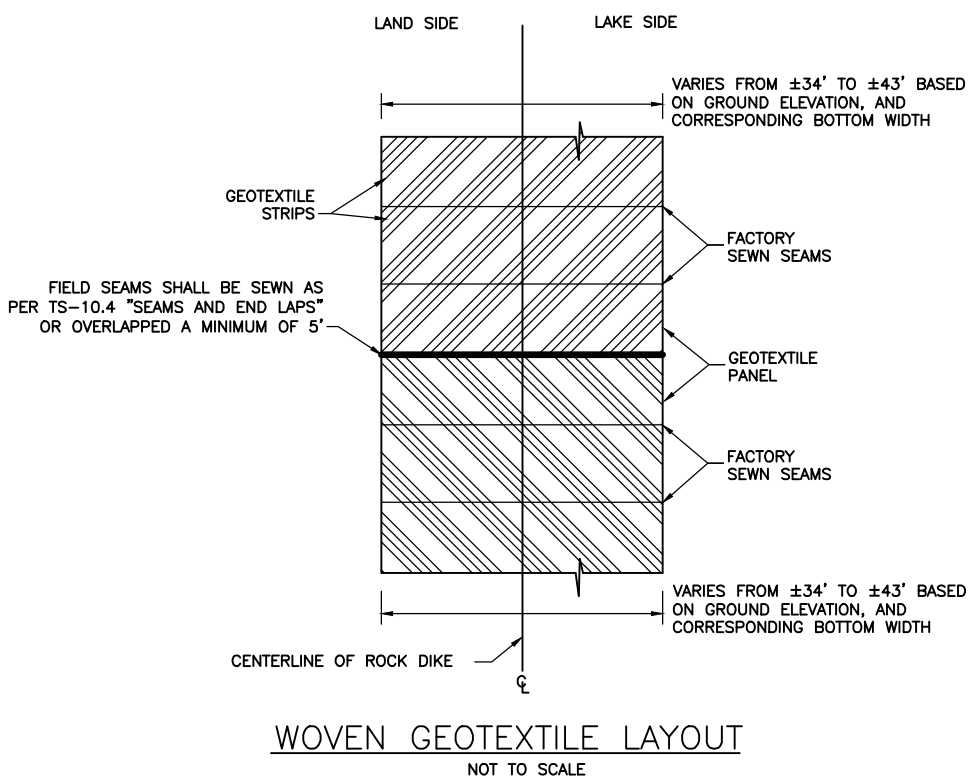
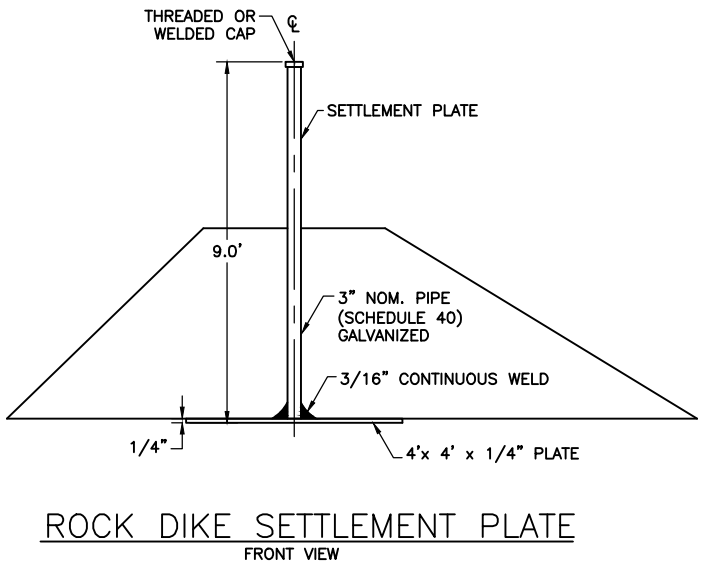
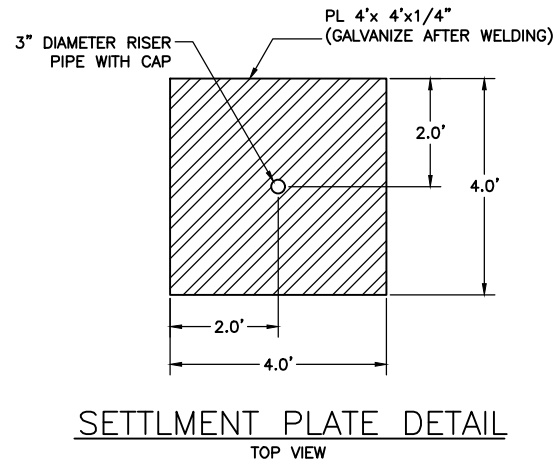
PIPELINE LOCATION &
KNOWN MAG ANOMOLIES

DATE: 01/2018

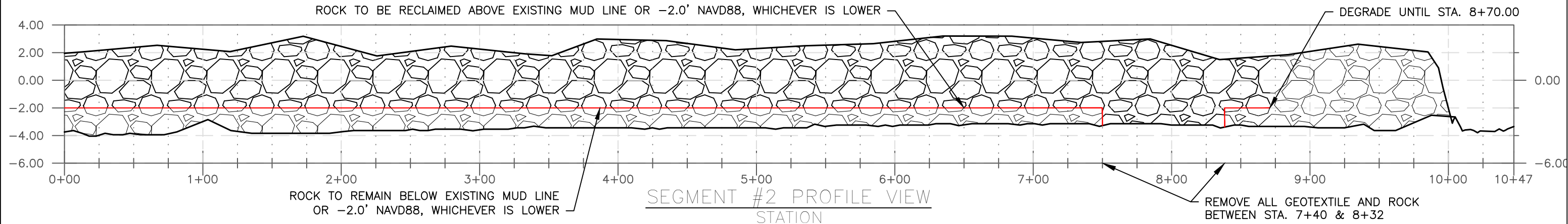
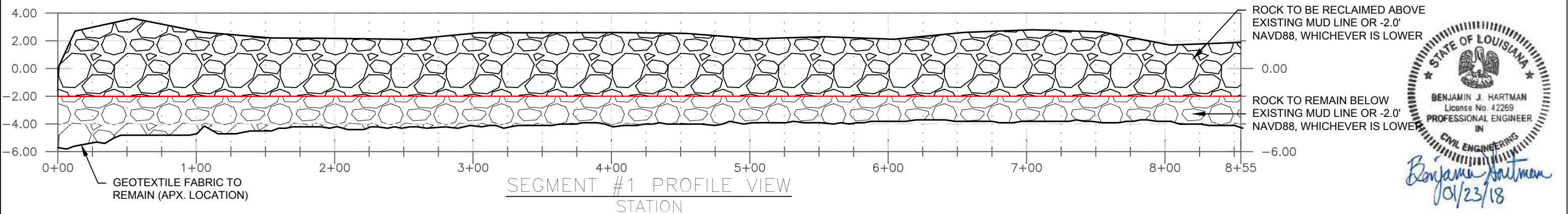
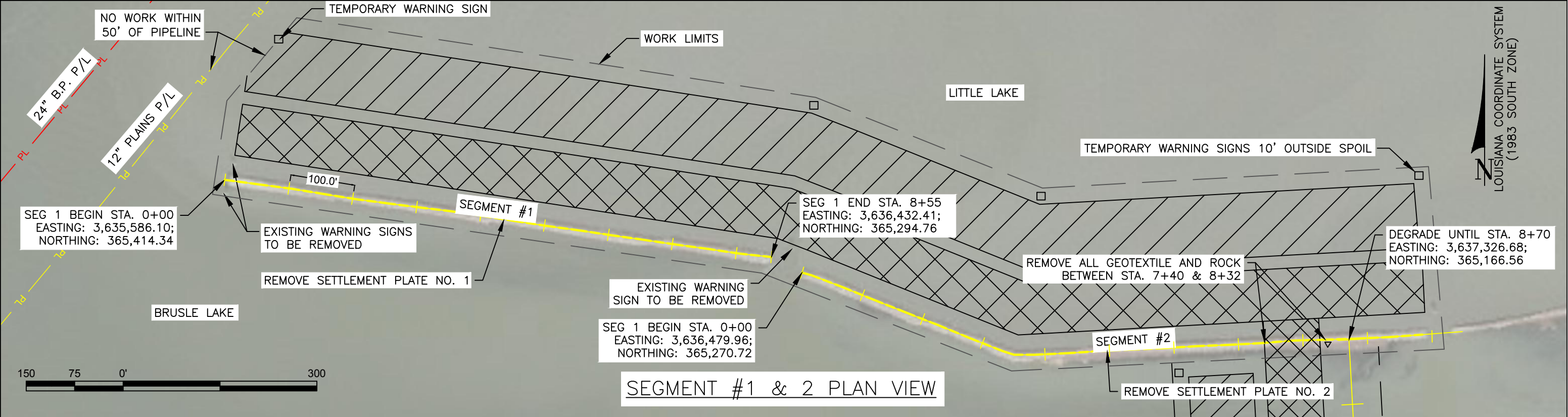
SHEET 3 OF 14



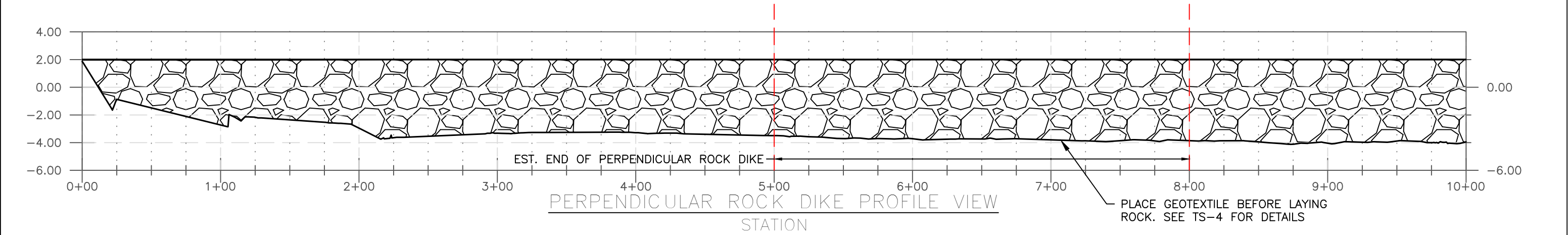
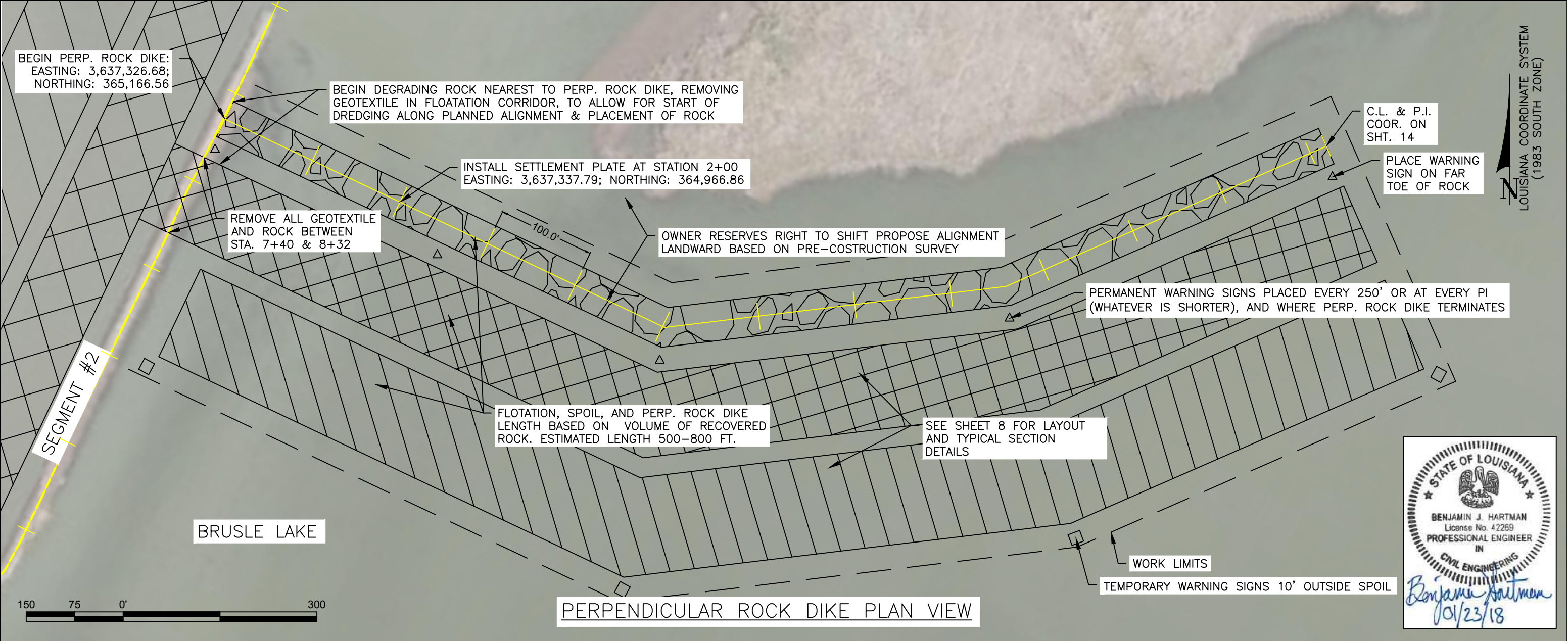
- NOTES:**
- 5 PERMANENT AND 8 TEMPORARY WARNING SIGNS SHALL BE INSTALLED AT LOCATIONS STATED ON SHEETS 05-06.
 - THE 2" BORDER ON THE WARNING SIGN WILL BE A REFLECTIVE MATERIAL OF ORANGE COLOR. THE LETTERING FIELD WILL BE A REFLECTIVE MATERIAL OF WHITE COLOR. THE LETTERING FOR THE WARNING SIGNS WILL BE BLACK. ALL SIGNS MUST MEET U.S. COAST GUARD STANDARDS; IN ACCORDANCE WITH 33 CFR 330.4 (a) (1)
 - NEOPRENE WASHERS OR GASKETS SHALL BE PLACED BETWEEN THE SIGN AND CONNECTING HARDWARE AT ALL POINTS OF CONTACT. THE NEOPRENE GASKET SHALL EXTEND PAST THE CONNECTION HARDWARE A MINIMUM OF 1/8".
 - THE CONTRACTOR HAS THE OPTION OF MOUNTING TEMPORARY WARNING SIGNS ON TIMBER PILINGS OR USING A COAST GUARD AUTHORIZED AND CPRA APPROVED WARNING BOUY/PONTOON.
 - HARDWARE FOR TIMBER CONNECTIONS SHALL BE HOT DIP GALVANIZED IN ACCORDANCE WITH SECTION 811.5 OF THE LOUISIANA STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES, AS PUBLISHED BY THE LOUISIANA DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT, LATEST EDITION.
 - ALL PILES SHALL BE TREATED WITH CREOSOTE OR CHROMATED COPPER ARSENATE (CCA). SEE TS-5 "TEMPORARY WARNING SIGNS" OR TS-7 "PERMANENT WARNING SIGNS" FOR TREATMENT REQUIREMENTS. ALL PILING SHALL BE CAPPED ACCORDING TO LA DOTD SPECIFICATION 812.06.
 - TIMBER PILING SHALL BE 60- FEET IN LENGTH WITH A NOMINAL 12-INCH DIAMETER BUTT AND 7-INCH MINIMUM DIAMETER AT THE TIP.
 - TEMPORARY WARNING SIGNS SHALL HAVE THE SAME COLORING AND REFLECTIVE TAPE AS PERMANENT SIGNS BUT MAY BE CONSTRUCTED WITH 3/4" SIGN GRADE PLYWOOD.
 - THE SUPPORTS FOR THE TEMPORARY SIGNS SHALL BE REMOVED TO 10' BELOW MUD LINE OR REMOVED COMPLETELY AFTER PERMANENT SIGNS ARE ACCEPTED.
 - THE WOVEN GEOTEXTILE FABRIC SHALL OVERLAP ROCK DIKE EDGE BY A MINIMUM OF 3' ON EACH SIDE. ANY SEAM PERPENDICULAR TO ROCK DIKE CENTERLINE SHALL BE SEWN. THE MINIMUM OVERLAP AT THE ROLL/GEOTEXTILE PANEL ENDS, PERPENDICULAR TO ROCK DIKE CENTERLINE, SHALL BE FIVE (5) FEET UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
 - THE GEOTEXTILE WIDTH SHOWN INCLUDES A 3' EXTENSION ON EACH SIDE OF THE ROCK DIKE. SEE TS-4 "WOVEN GEOTEXTILE FABRIC" FOR ADDITIONAL REQUIREMENTS.
 - SETTLEMENT PLATES SHALL BE INSTALLED ALONG THE CENTERLINE OF THE PERPENDICULAR ROCK DIKE AS SHOWN.
 - THE SETTLEMENT PLATES SHALL BE SURVEYED WITHIN 24 HOURS OF INSTALLATION AND WITNESSED BY THE CPRA INSPECTOR.
 - SETTLEMENT PLATES SHALL BE BUILT USING ASTM A36 STEEL AND HOT-DIPPED GALVANIZED AFTER FABRICATION PER SPECIFICATION TS-7 "PERPENDICULAR ROCK DIKE SETTLEMENT PLATES".



				COASTAL PROTECTION AND RESTORATION AUTHORITY 150 TERRACE AVENUE BATON ROUGE, LOUISIANA 70801	BA-37 Segment 1 & 2 Demolition & Perpendicular Rock Dike Construction		WARNING SIGN AND SETTLMENT PLATE DETAIL
					STATE PROJECT NUMBER: BA-37		
					FEDERAL PROJECT NUMBER: BA-37		DATE: 01/2018
REV.	DATE	DESCRIPTION	BY		DRAWN BY: B.J.H.	DESIGNED BY: B.J.H.	APPROVED BY: B.J.H.



LEGEND ↑ ROCK TO BE RECLAIMED ↓ ↓ ROCK TO REMAIN ↓ FLOTATION CHANNEL SPOIL WORK LIMITS ROCK DIKE TEMP. WARNING SIGN COASTAL PROTECTION AND RESTORATION AUTHORITY 150 TERRACE AVENUE BATON ROUGE, LOUISIANA 70801 BA-37 Segment 1 & 2 Demolition & Perpendicular Rock Dike Construction STATE PROJECT NUMBER: BA-37 FEDERAL PROJECT NUMBER: BA-37 PLAN/PROFILE ROCK DIKE SEGMENT 1&2 DATE: 01/2018 REV. DATE DESCRIPTION BY DRAWN BY: B.J.H. DESIGNED BY: B.J.H. APPROVED BY: B.J.H. SHEET 5 OF 14 F:\ENGINEERING\BASINS\BA\BA-37\G - SEGMENT 1 & 2 DEMOLITION & DIKE CREATION\G.1 - ENGINEERING AND DESIGN\G.1.K - PRELIMINARY DESIGN REPORTS & PLANS			
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LEGEND

— EXISTING WATER BOTTOM

ROCK DIKE

FLOTATION CHAN.

SPOIL

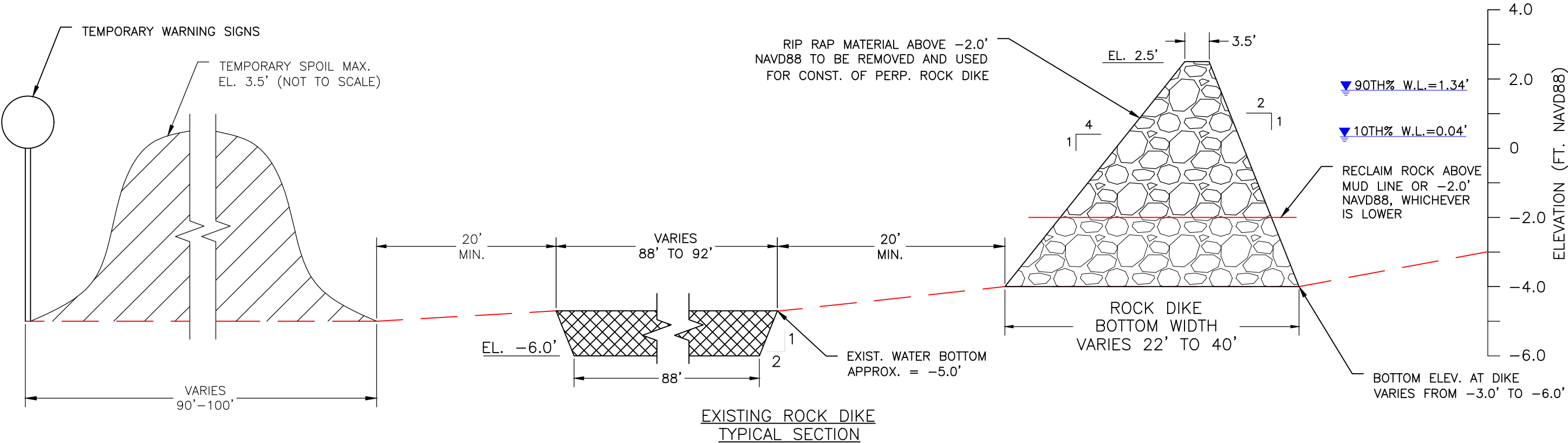
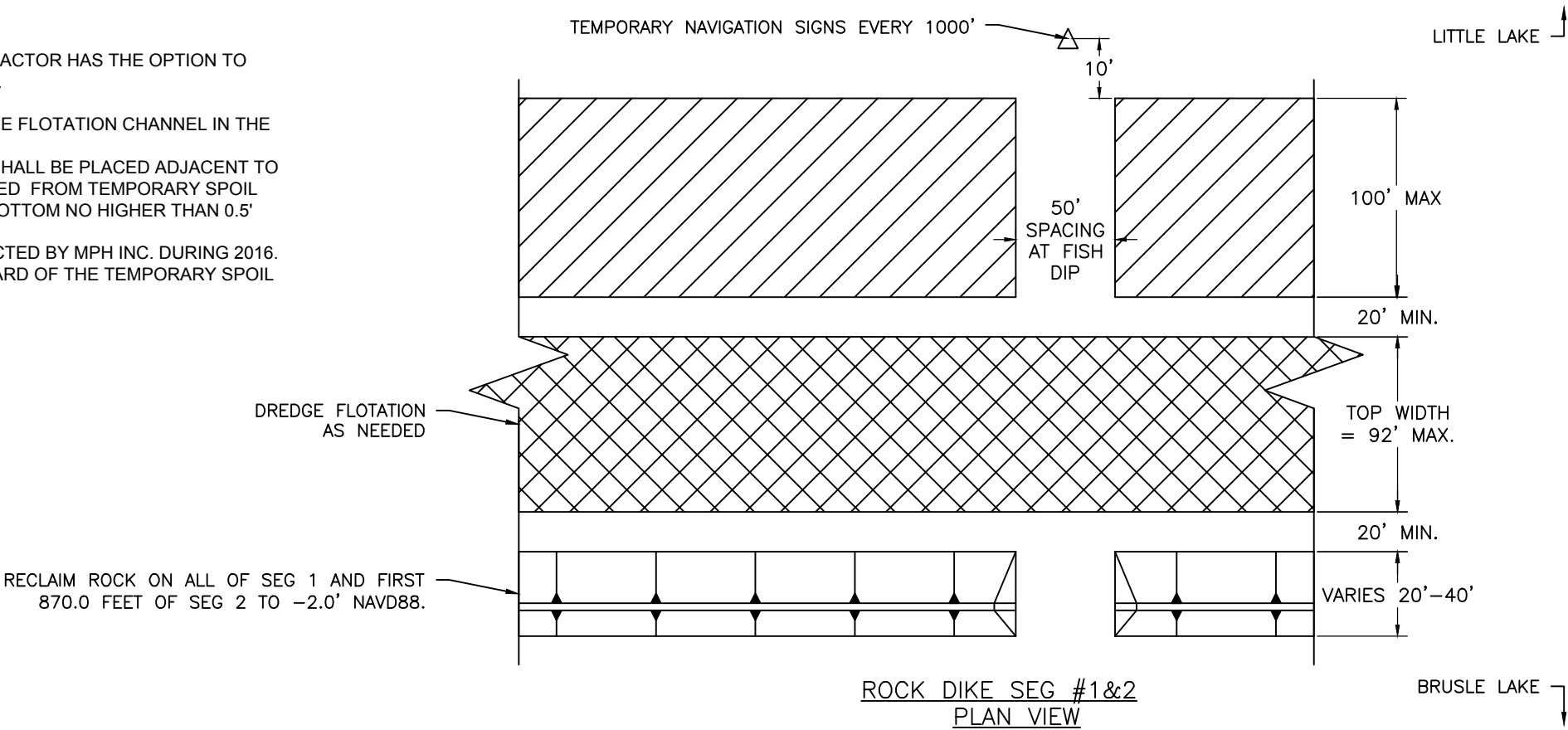
△ PERM. WARNING SIGN

□ TEMP. WARNING SIGN

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ENGINEERING AND DESIGN\G.1.K - PRELIMINARY DESIGN REPORTS & PLANS

				COASTAL PROTECTION AND RESTORATION AUTHORITY 150 TERRACE AVENUE BATON ROUGE, LOUISIANA 70801	BA-37 Segment 1 & 2 Demolition & Perpendicular Rock Dike Construction		PLAN/PROFILE PERP. ROCK DIKE
					STATE PROJECT NUMBER: BA-37		
					FEDERAL PROJECT NUMBER: BA-37		DATE: 01/2018
					APPROVED BY: B.J.H.		SHEET 6 OF 14
REV.	DATE	DESCRIPTION	BY		DRAWN BY: B.J.H.	DESIGNED BY: B.J.H.	

1. PERMITTED FLOATATION CHANNELS ARE SHOWN. THE CONTRACTOR HAS THE OPTION TO CONSTRUCT FEWER, SMALLER, AND/OR SHORTER CHANNELS.
2. MAX FLOATATION BOTTOM WIDTH = 80'
3. THE CONTRACTOR SHALL VERIFY THE ELEVATIONS ALONG THE FLOATATION CHANNEL IN THE PRE-CONSTRUCTION SURVEY.
4. THE SPOIL FROM FLOATATION AND MAINTENANCE DREDGING SHALL BE PLACED ADJACENT TO THE CHANNEL. THE FLOATATION CHANNEL SHALL BE BACKFILLED FROM TEMPORARY SPOIL AREA PRIOR TO PROJECT COMPLETION, LEAVING THE LAKE BOTTOM NO HIGHER THAN 0.5' ABOVE PRE-CONSTRUCTION ELEVATIONS.
5. THE ELEVATIONS SHOWN ARE BASED ON A SURVEYS CONDUCTED BY MPH INC. DURING 2016.
6. TEMPORARY WARNING SIGNS SHALL BE PLACED 10.0' LAKEWARD OF THE TEMPORARY SPOIL

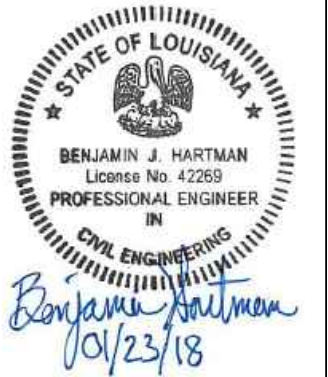


LEGEND	
	EXISTING WATER BOTTOM
	FLOTATION CHANNEL
	ROCK DIKE
	SPOIL

F:\ENGINEERING\BASINS\BA\BA-37\G -SEGMENT 1 & 2 DEMOLITION & DIKE CREATION\G.1 -
ENGINEERING AND DESIGN\G.1.K - PRELIMINARY DESIGN REPORTS & PLANS

				COASTAL PROTECTION AND RESTORATION AUTHORITY 150 TERRACE AVENUE BATON ROUGE, LOUISIANA 70801		BA-37 Segment 1 & 2 Demolition & Perpendicular Rock Dike Construction		TYPICAL CROSS SECTION ROCK DIKE TO BE DEGRADED	
						STATE PROJECT NUMBER: BA-37			
						FEDERAL PROJECT NUMBER: BA-37		DATE: 01/2018	
REV.	DATE	DESCRIPTION	BY			DRAWN BY: B.J.H.		DESIGNED BY: B.J.H.	

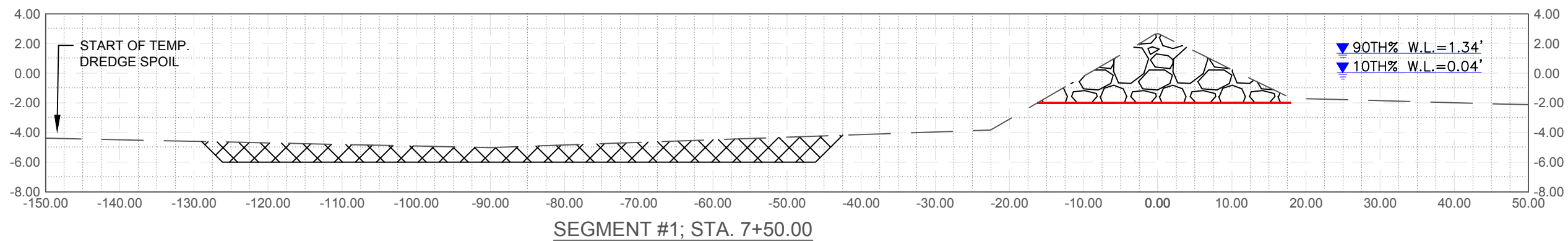
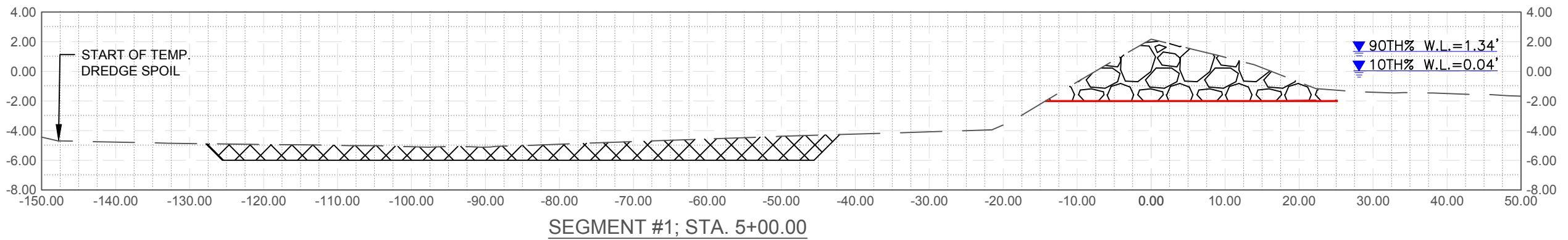
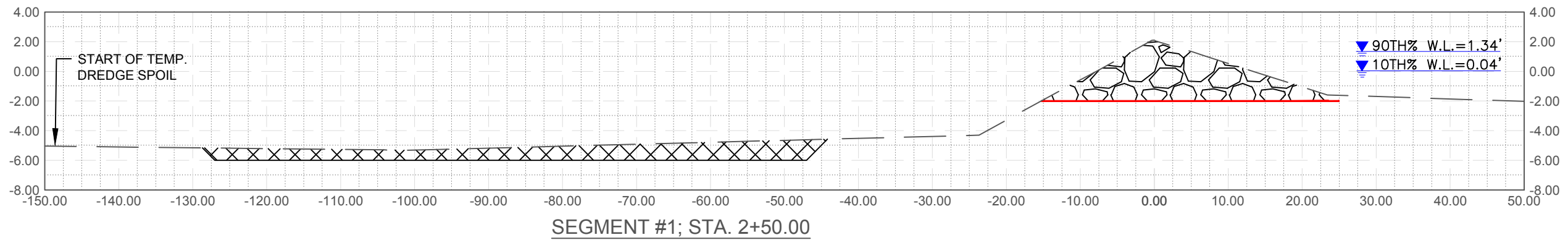
- PLACE ROCK FROM SEG 1 & 2
AS DETAILED IN TYPICAL SECTION



 SPOIL

REV.	DATE	DESCRIPTION	BY

SHEET 8 OF 14



 ROCK DIKE
 FLOTATION CHANNEL

ROCK TO BE RECLAIMED

ROCK TO REMAIN

REV.	DATE	DESCRIPTION	BY

COASTAL PROTECTION AND
RESTORATION AUTHORITY
150 TERRACE AVENUE
BATON ROUGE, LOUISIANA 70801

DRAWN BY: B.J.H.

DESIGNED BY: B.J.H.

BA-37 Segment 1 & 2 Demolition
& Perpendicular Rock DiKE Construction

STATE PROJECT NUMBER: BA-37

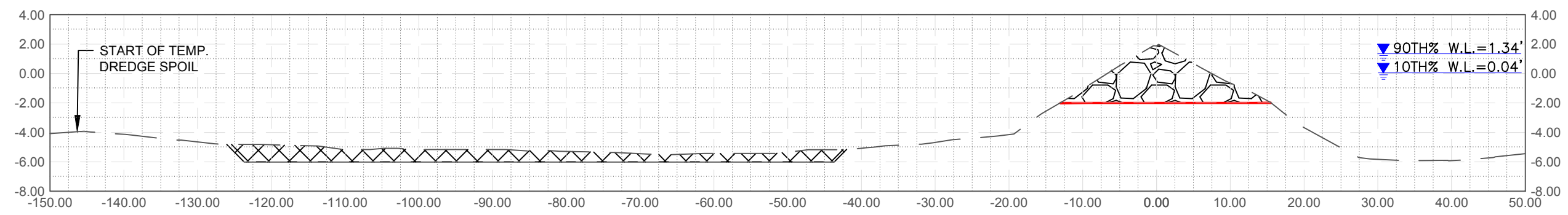
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APPROVED BY: B.J.H.

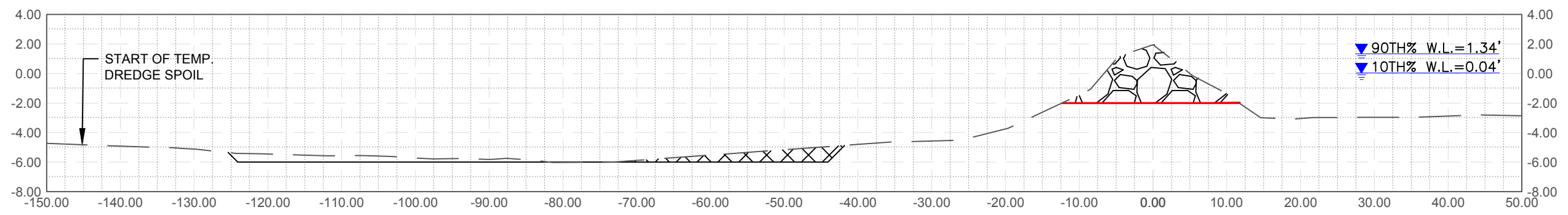
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DATE: 01/2018

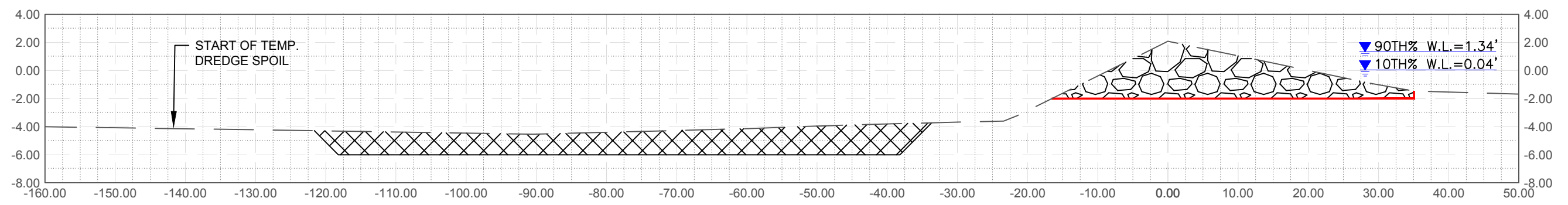
SHEET 9 OF 14



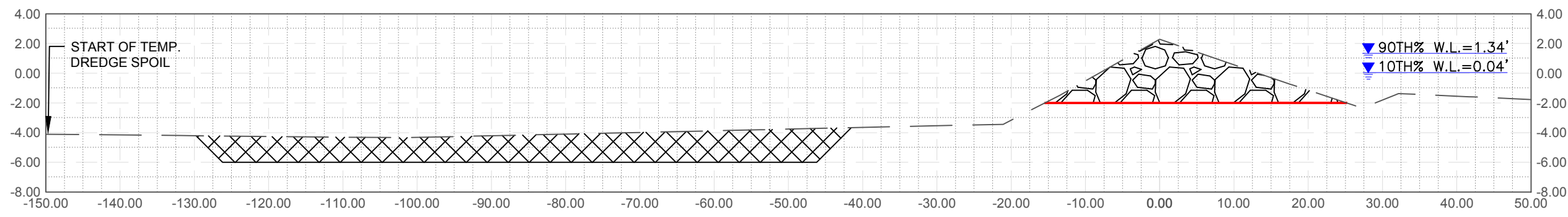
SEGMENT #1; STA. 8+50.00



SEGMENT #2; STA. 0+00.00



SEGMENT #2; STA. 2+50.00



SEGMENT #2; STA. 5+00.00

LEGEND

ROCK DIKE

FLOTATION CHANNEL

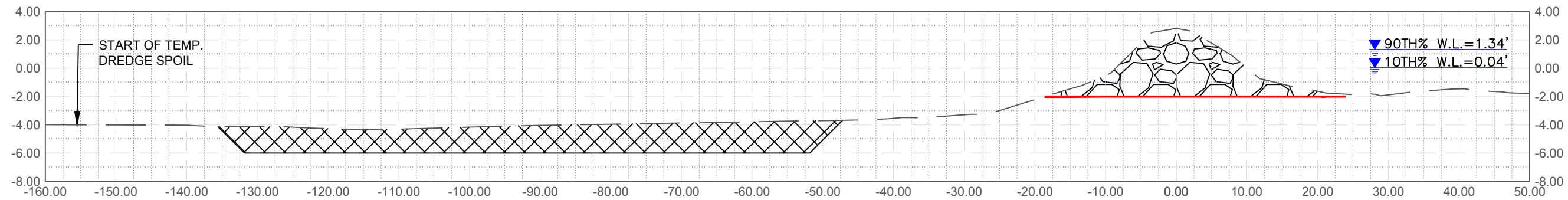
ROCK TO BE RECLAIMED

ROCK TO REMAIN

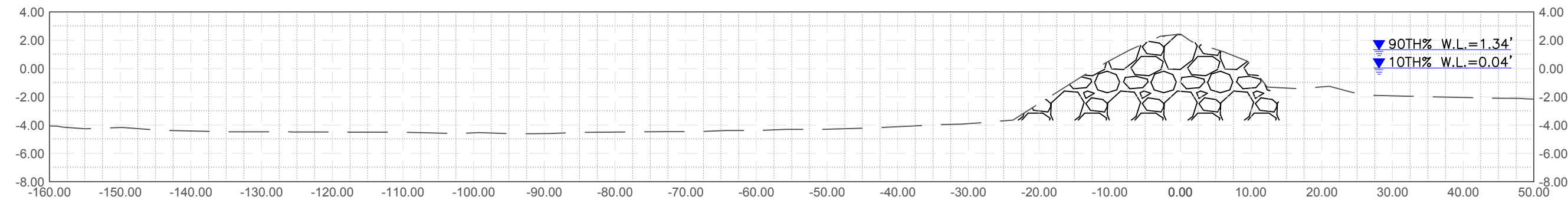
F:\ENGINEERING\BASINS\BA\BA-37\G -SEGMENT 1 & 2 DEMOLITION & DIKE CREATION\G.1 -
ENGINEERING AND DESIGN\G.1.K - PRELIMINARY DESIGN REPORTS & PLANS

				COASTAL PROTECTION AND RESTORATION AUTHORITY 150 TERRACE AVENUE BATON ROUGE, LOUISIANA 70801	BA-37 Segment 1 & 2 Demolition & Perpendicular Rock DiKE Construction		CROSS SECTIONS SEGMENT 1-2
					STATE PROJECT NUMBER: BA-37		
					FEDERAL PROJECT NUMBER: BA-37		
							DATE: 01/2018
REV.	DATE	DESCRIPTION	BY		DRAWN BY: B.J.H.	DESIGNED BY: B.J.H.	APPROVED BY: B.J.H.





SEGMENT #2; STA. 7+50.00



SEGMENT #2; STA. 9+50.00

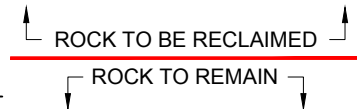
LEGEND



ROCK DIKE



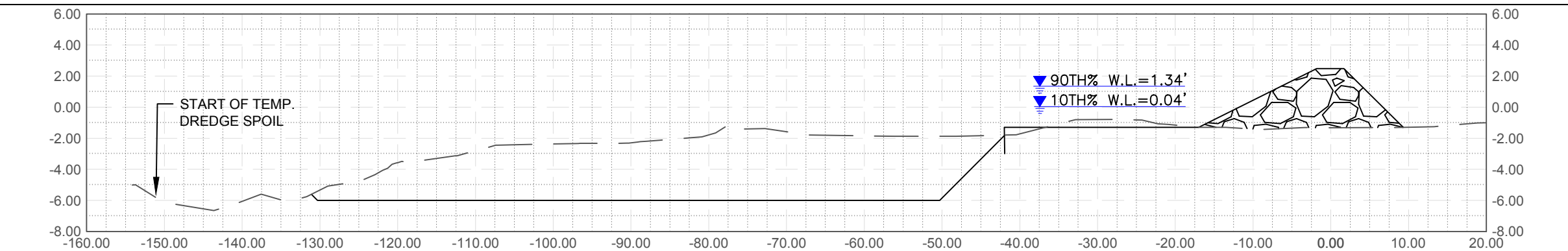
FLOTATION CHANNEL



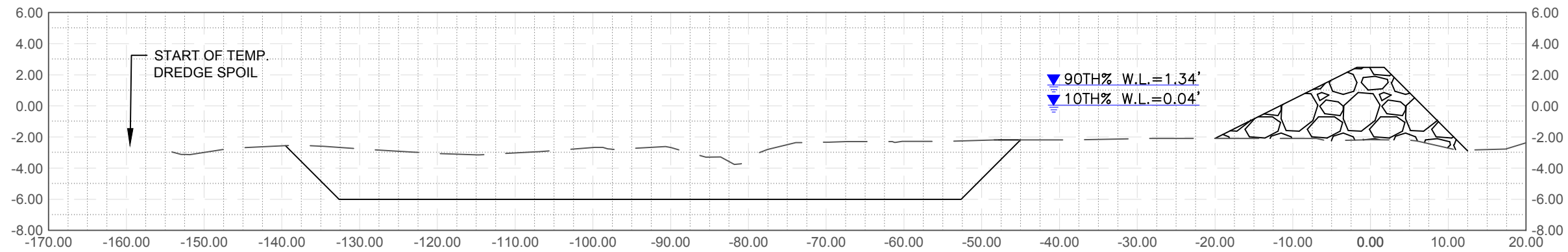
F:\ENGINEERING\BASINS\BA\BA-37\G -SEGMENT 1 & 2 DEMOLITION & DIKE CREATION\G.1 -
ENGINEERING AND DESIGN\G.1.K - PRELIMINARY DESIGN REPORTS & PLANS

				COASTAL PROTECTION AND RESTORATION AUTHORITY 150 TERRACE AVENUE BATON ROUGE, LOUISIANA 70801	BA-37 Segment 1 & 2 Demolition & Perpendicular Rock DiKE Construction	CROSS SECTIONS SEG. 2 & PERP. ROCK DIKE	
					STATE PROJECT NUMBER: BA-37		
					FEDERAL PROJECT NUMBER: BA-37	DATE: 01/2018	
REV.	DATE	DESCRIPTION	BY	DRAWN BY: B.J.H.	DESIGNED BY: B.J.H.	APPROVED BY: B.J.H.	SHEET 11 OF 14

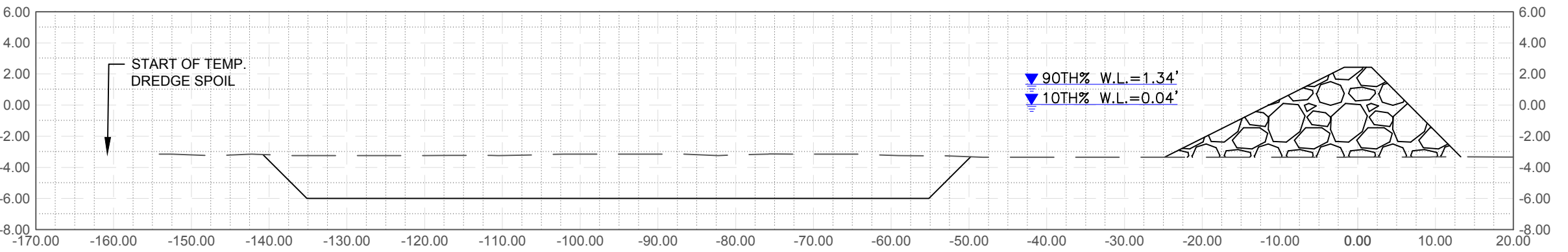




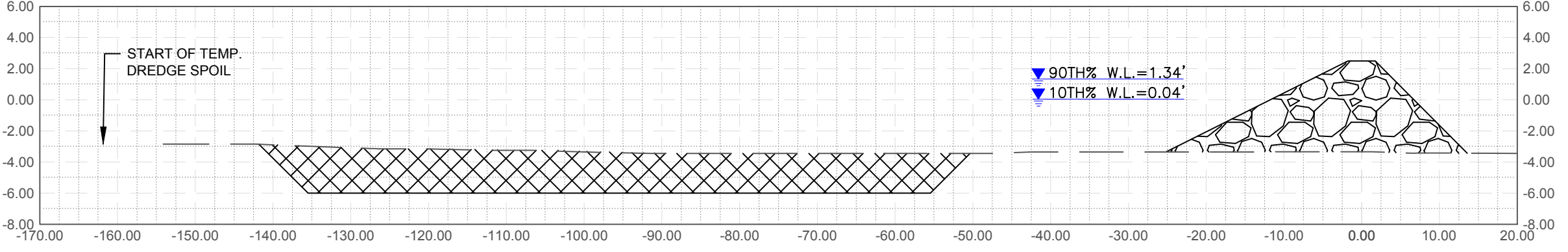
PERPENDICULAR ROCK DIKE; STA. 0+23.09



PERPENDICULAR ROCK DIKE; STA. 1+10.45



PERPENDICULAR ROCK DIKE; STA. 3+10.45



PERPENDICULAR ROCK DIKE; STA. 4+10.45

LEGEND

ROCK DIKE

ROCK TO BE RECLAIMED

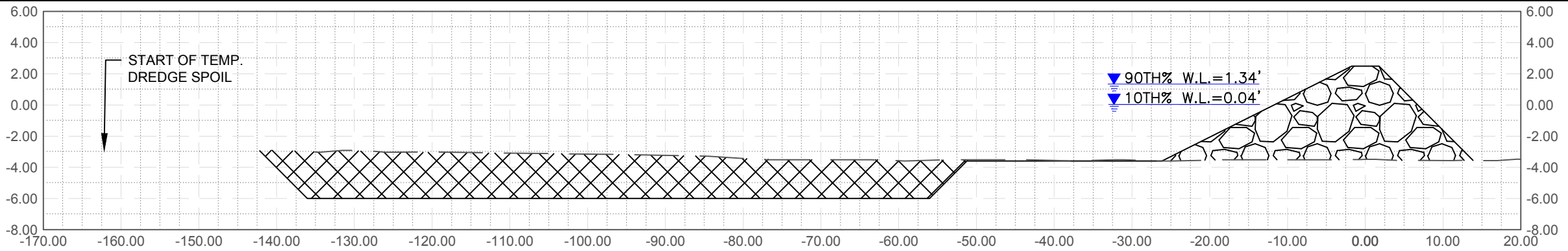
ROCK TO REMAIN

FLOTATION CHANNEL

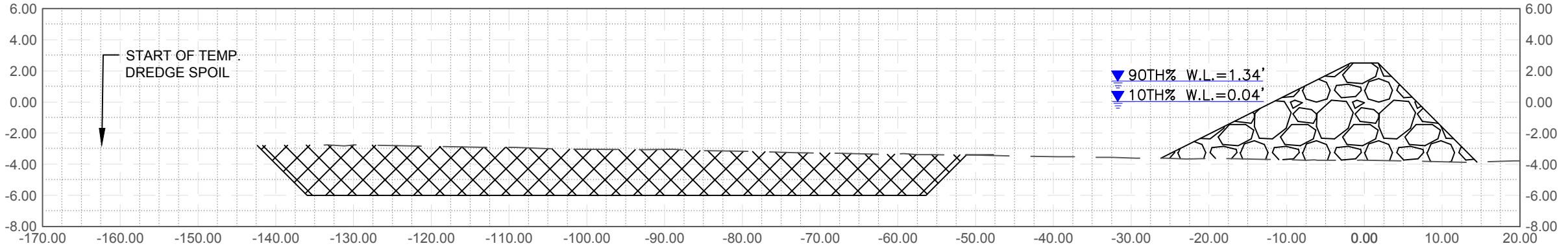
F:\ENGINEERING\BASINS\BA\BA-37\G -SEGMENT 1 & 2 DEMOLITION & DIKE CREATION\G.1 -
ENGINEERING AND DESIGN\G.1.K - PRELIMINARY DESIGN REPORTS & PLANS

				COASTAL PROTECTION AND RESTORATION AUTHORITY 150 TERRACE AVENUE BATON ROUGE, LOUISIANA 70801	BA-37 Segment 1 & 2 Demolition & Perpendicular Rock Dike Construction		CROSS SECTIONS SEG. 2 & PERP. ROCK DIKE
					STATE PROJECT NUMBER: BA-37		
					FEDERAL PROJECT NUMBER: BA-37		DATE: 01/2018
REV.	DATE	DESCRIPTION	BY		DRAWN BY: B.J.H.	DESIGNED BY: B.J.H.	APPROVED BY: B.J.H.

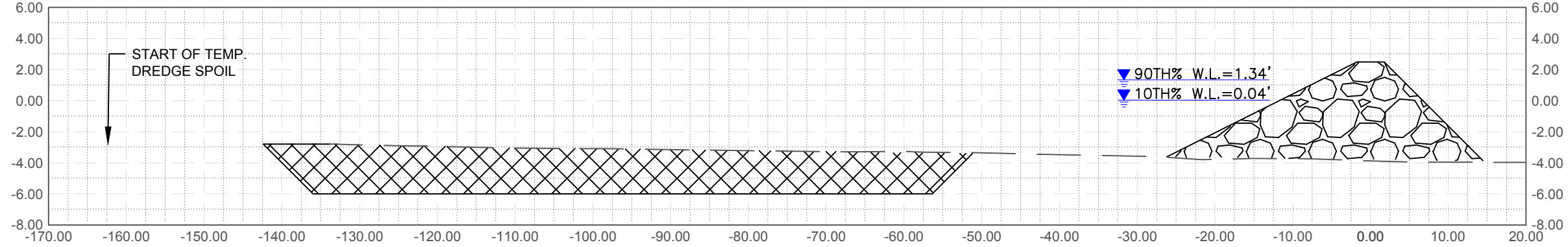




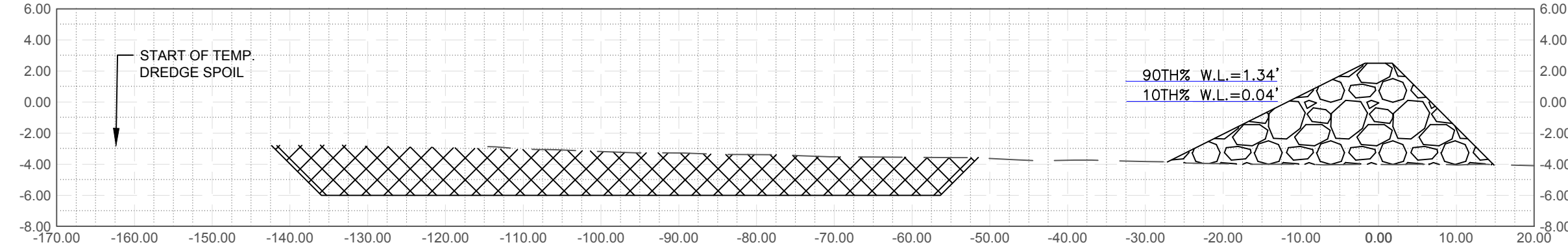
PERPENDICULAR ROCK DIKE; STA. 5+02.23



PERPENDICULAR ROCK DIKE; STA. 6+30.15



PERPENDICULAR ROCK DIKE; STA. 7+48.36

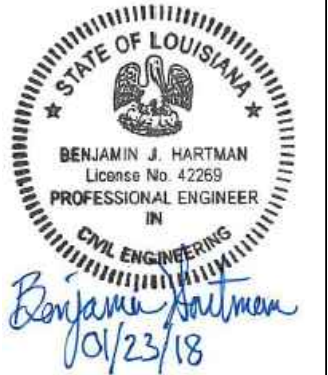


PERPENDICULAR ROCK DIKE; STA. 8+57.29

- LEGEND
- ROCK DIKE
 - FLOTATION CHANNEL

F:\ENGINEERING\BASINS\BA\BA-37\G -SEGMENT 1 & 2 DEMOLITION & DIKE CREATION\G.1 -
ENGINEERING AND DESIGN\G.1.K - PRELIMINARY DESIGN REPORTS & PLANS

				COASTAL PROTECTION AND RESTORATION AUTHORITY 150 TERRACE AVENUE BATON ROUGE, LOUISIANA 70801		BA-37 Segment 1 & 2 Demolition & Perpendicular Rock Dike Construction		CROSS SECTIONS PERP. ROCK DIKE
						STATE PROJECT NUMBER: BA-37		
						FEDERAL PROJECT NUMBER: BA-37		
								DATE: 01/2018
REV.	DATE	DESCRIPTION	BY	DRAWN BY: B.J.H.	DESIGNED BY: B.J.H.	APPROVED BY: B.J.H.		SHEET 13 OF 14



AVERAGE END METHOD - RECLAIMED ROCK - SEG #1		
STATION	AREA (FT ²)	VOLUME (FT ³)
0+00	75	
1+00	75	7,505
2+00	84	7,935
3+00	102	9,299
4+00	121	11,150
5+00	108	11,412
6+00	89	9,819
7+00	95	9,208
8+00	65	7,994
8+50	57	2,857
TOTAL VOLUME	(CY)	2,858
TONNAGE	TON	4,288

AVERAGE END METHOD - RECLAIMED ROCK - SEG #2		
STATION	AREA (FT ²)	VOLUME (FT ³)
0+00	47	
1+00	70	5,852
2+00	107	8,876
3+00	82	9,484
4+00	111	9,662
5+00	86	9,850
6+00	108	9,701
7+00	125	11,657
8+00	106	11,549
8+72	80	6,695
TOTAL VOLUME	(CY)	3,086
TONNAGE	TON	4,629

AVERAGE END METHOD - CONSTRUCTION OF PERPENDICULAR ROCK DIKE		
STATION	AREA (FT ²)	VOLUME (FT ³)
0+23	57.53	
1+10	83.41	7,752
2+10	127.63	10,552
3+10	122.91	12,527
4+10	123.95	12,343
5+02	130.00	11,682
6+30	138.41	17,178
7+49	142.16	16,642
8+57	149.46	15,844
TOTAL VOLUME	(CY)	3,871
TONNAGE	TON	5.807

AS-BUILT SURVEYS INDICATE A 33% LOSS OF
ROCK VOLUME DUE TO PRIMARY CONSOLIDATION

2,858 CY + 3,086 CY = 5,944 CY
5,944 CY * (1.00-0.33) = 3982.48 CY

ASSUMING IDEAL CONDITIONS, THE
PERPENDICULAR ROCK DIKE COULD STRETCH AS
FAR AS STATION 8+80

PERPENDICULAR ROCK DIKE CENTERLINE ALIGNMENT		
STATION	EASTING	NORTHING
0+00	3637326.68	365166.56
5+02.23	3637354.57	364665.10
8+57.23	3637560.25	364375.76
12+18.18	3637845.43	364154.50

OWNER RESERVES RIGHT TO SHIFT
ALIGNMENT LANDWARD BASED ON
PRE-CONSTRUCTION SURVEY

AVERAGE END METHOD - DREDGE - SEG #1		
STATION	AREA (FT ²)	VOLUME (FT ³)
0+00	49	
1+00	40	5,852
2+00	97	8,876
3+00	85	9,484
4+00	82	9,662
5+00	97	9,850
6+00	103	9,701
7+00	110	11,657
8+00	97	11,549
8+50	64	6,695
TOTAL VOLUME	(CY)	3,086

AVERAGE END METHOD - DREDGE - SEG #2		
STATION	AREA (FT ²)	VOLUME (FT ³)
0+00	3	
1+00	111	5,852
2+00	135	8,876
3+00	133	9,484
4+00	153	9,662
5+00	161	9,850
6+00	166	9,701
7+00	171	11,657
8+00	171	11,549
8+72	154	6,695
TOTAL VOLUME	(CY)	3,086

AVERAGE END METHOD - DREDGE - PERPENDICULAR ROCK DIKE		
STATION	AREA (FT ²)	VOLUME (FT ³)
0+23	298	
1+10	285	32,086
2+10	288	28,628
3+10	240	26,356
4+10	230	23,472
5+02	232	21,238
6+30	253	31,037
7+49	309	33,365
8+57	241	29,890
TOTAL VOLUME	(CY)	8,373



				COASTAL PROTECTION AND RESTORATION AUTHORITY 150 TERRACE AVENUE BATON ROUGE, LOUISIANA 70801	BA-37 Segment 1 & 2 Demolition & Perpendicular Rock Dike Construction		DREDGE & ROCK QUANTITIES
					STATE PROJECT NUMBER: BA-37		
					FEDERAL PROJECT NUMBER: BA-37		DATE: 01/2018
					APPROVED BY: B.J.H.		SHEET 14 OF 14
REV.	DATE	DESCRIPTION	BY		DRAWN BY: B.J.H.	DESIGNED BY: B.J.H.	