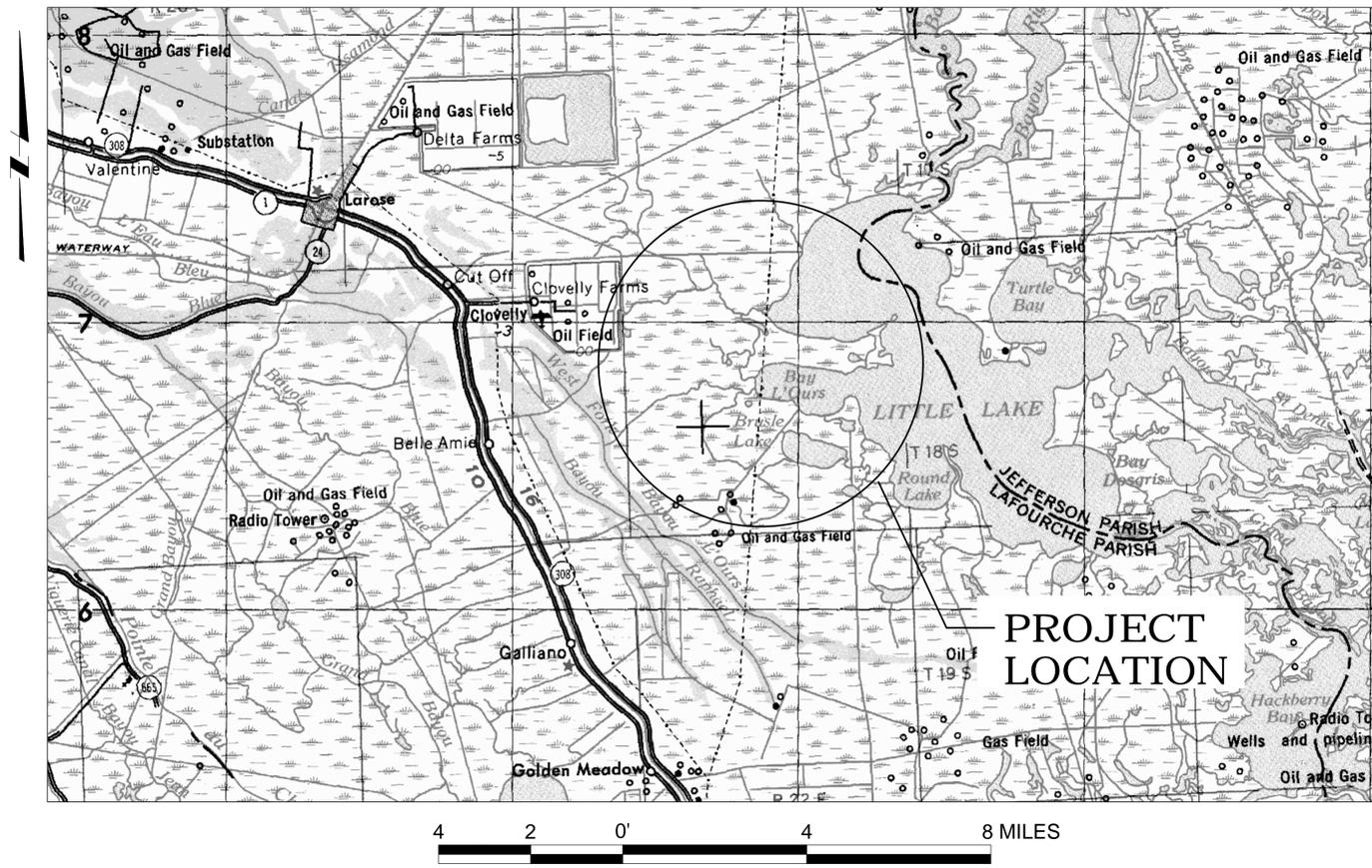


**DRAWING INDEX**

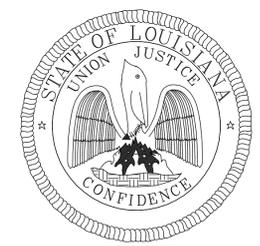
- 1 COVER SHEET AND DRAWING INDEX
- 2 GENERAL NOTES AND SUMMARY OF QUANTITIES
- 3 SITE LOCATIONS MAP
- 4 SITE 1 - PLAN
- 5A SITE 2 - OVERALL PLAN
- 5B SITE 2 - CROSS SECTIONS
- 5C SITE 2 - CROSS SECTIONS
- 5 SITE 2 - PLAN AND PROFILE
- 6 SITE 2 - CROSS SECTIONS
- 7 SITE 4 - PLAN AND PROFILE
- 8 SITE 4 - CROSS SECTIONS
- 9 SITE 14A - PLAN AND PROFILE
- 10 SITE 14A - CROSS SECTIONS
- 11 SITE 4 TO 4A/4B PLAN
- 11A SITE 4 TO 4A/4B PLAN
- 12 SITE 4 TO 4A/4B PROFILE & CROSS SECTIONS**
- 13 SITE 4 TO 4A/4B CROSS SECTIONS
- ~~14 SITE 4 TO 4A/4B CROSS SECTIONS~~
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- 23 BREACHES - OVERALL PLAN
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**STATE OF LOUISIANA  
DEPARTMENT OF NATURAL RESOURCES  
COASTAL ENGINEERING DIVISION**

**GIWW TO CLOVELLY HYDROLOGIC RESTORATION  
2010 MAINTENANCE PROJECT  
BA-02  
LAFORCHE PARISH, LA**



CONSULTANT PROJECT ENGINEER	DATE
OCPR CHIEF - ENGINEERING & OPERATIONS DIVISION	DATE
OCPR ENGINEER MANAGER	DATE
OCPR PROJECT ENGINEER	DATE



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AS-BUILT DRAWING

TYPE OF CONSTRUCTION

CLASSIFICATION III  
HEAVY CONSTRUCTION

REV.	DATE	DESCRIPTION	BY



OFFICE OF COASTAL PROTECTION & RESTORATION  
**ENGINEERING BRANCH**  
450 LAUREL STREET, SUITE 1200  
BATON ROUGE, LOUISIANA 70804

DRAWN BY: LKL      DESIGNED BY: NJR

GIWW TO CLOVELLY HYDRAULIC RESTORATION 2010 MAINTENANCE PROJECT	##### COVER SHEET AND DRAWING INDEX
STATE PROJECT NUMBER: BA-02	DATE: MARCH 2011
FEDERAL PROJECT NUMBER: BA-02	SHEET 1 OF 36
APPROVED BY: JPS	

**GENERAL NOTES**

- ALL ELEVATIONS ARE GIVEN IN THE NORTH AMERICAN VERTICAL DATUM ON 1988 (NAVD 88). ALL HORIZONTAL COORDINATES ARE GIVEN IN THE NORTH AMERICAN DATUM OF 1983 (NAD 83).
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR NAVIGATING WITHIN THE LIMITS OF THE PROJECT PLAN AREA. OCPR OR ASSIGNED PROJECT REPRESENTATIVE SHALL MONITOR THE LOCATION DURING CONSTRUCTION.
- THE CONTRACTOR SHALL NOT, AT ANYTIME, TREAD ON EXISTING MARSH OR VEGETATIVE WETLANDS UNLESS OTHERWISE DIRECTED BY THE OCPR PROJECT ENGINEER OR ASSIGNED PROJECT REPRESENTATIVE.
- THE LOCATIONS OF UTILITIES, PIPELINES, AND STRUCTURES SHOWN HEREON HAVE BEEN DETERMINED FROM DATA PROVIDED BY OTHERS. THE ACTUAL LOCATIONS MAY VARY FROM THESE SHOWN AND IT IS POSSIBLE SOME MAY EXIST THAT HAVE NOT BEEN SHOWN. THE CONTRACTOR SHALL BE ON ALERT FOR SUCH UTILITIES, PIPELINES, AND STRUCTURES AND REPORT THEM IMMEDIATELY TO THE OCPR PROJECT ENGINEER OR ASSIGNED PROJECT REPRESENTATIVE. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UTILITIES, PIPELINES, AND STRUCTURES PRIOR TO COMMENCING ANY WORK. FOR POWERLINES CROSSING LIMITS OF WORK NEAR STRUCTURES 4A/4B, 4 AND 2; THE ROCK DIKE EXTENSION; AND BRENTON CANAL, CONTACT ENTERGY AT 1-800-968-8243.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING PIPELINE OPERATORS 48 HOURS IN ADVANCE OF THE WORK. ALL PIPELINES SHALL BE MARKED WITH BUOYS BY THE CONTRACTOR. THE CONTRACTOR SHALL MAINTAIN BUOYS DURING CONSTRUCTION OR HAVE ADEQUATE NAVIGATIONAL EQUIPMENT ON THE DREDGE TO AVOID DREDGING IN RESTRICTED AREAS. THE CONTRACTOR SHALL NOT ANCHOR OR EXCAVATE WITHIN 50 FEET OF ANY PIPELINE. THE FOLLOWING IS A LIST OF PIPELINE OPERATORS KNOWN TO HAVE PIPELINES IN THE VICINITY. NOTICE: 48 HOURS BEFORE DREDGING CALL LOUISIANA ONE CALL AT 1-800-272-3020 TO LOCATE ANY OTHER PIPELINES OR UTILITIES.  
  
CONTACT: SONNY CROSBY - STONE ENERGY CORP.  
PHONE: 985-870-5001
- VOLUMES SHOWN ARE FOR BIDDING PURPOSES ONLY AND WERE CALCULATED ACCORDING TO CONDITIONS SURVEYED IN 2008/2010. DREDGE CROSS-SECTIONS WILL BE SURVEYED BY THE CONTRACTOR BEFORE AND AFTER FOR BACKFILL VERIFICATION. ALL SURVEYING AND MEASUREMENTS BY THE CONTRACTOR FOR MEASUREMENT AND PAYMENT WILL BE MONITORED BY THE OCPR PROJECT ENGINEER OR ASSIGNED PROJECT REPRESENTATIVE. THE OCPR PROJECT ENGINEER OR ASSIGNED PROJECT REPRESENTATIVE SHALL REVIEW ALL BEFORE AND AFTER SURVEYS, MEASUREMENTS AND PAYMENT CALCULATIONS. IF A DISCREPANCY CANNOT BE RESOLVED, THE CONSTRUCTION MANAGER SHALL PERFORM A CROSS-SECTION SURVEY TO VERIFY THE CONTRACTORS WORK.

- VOLUMES SHOWN ARE FOR BIDDING PURPOSES ONLY AND WERE CALCULATED ACCORDING TO CONDITIONS SURVEYED IN 2008/2010. FOR MEASUREMENT AND PAYMENT PURPOSES, CONTRACTOR WILL MEASURE WEIGHT OF ROCK BEFORE PLACEMENT. ALL WEIGHING PERFORMED BY THE CONTRACTOR FOR MEASUREMENT AND PAYMENT WILL BE MONITORED BY OCPR PROJECT ENGINEER OR ASSIGNED PROJECT REPRESENTATIVE. THE OCPR PROJECT ENGINEER OR ASSIGNED PROJECT REPRESENTATIVE SHALL REVIEW ALL MEASUREMENTS AND PAYMENT CALCULATIONS. IF A DISCREPANCY CANNOT BE RESOLVED, THE CONSTRUCTION MANAGER SHALL PERFORM A CROSS-SECTION SURVEY TO VERIFY THE CONTRACTORS WORK.
- DREDGED MATERIAL SHALL BE PLACED IN AREAS SHOWN ON THE PLANS.
- DREDGED MATERIAL SHALL NOT IMPEDE FLOW OF NATURAL WATERWAYS NOR BE STOCKPILED WHERE NATURAL WATERWAYS INTERSECT CREVASSES.
- CONTRACTOR IS RESPONSIBLE TO VERIFY EXISTING CONDITIONS PRIOR TO COMMENCEMENT OF WORK. ANY OBSERVED DISCREPANCIES BETWEEN PRE-CONSTRUCTION SURVEY AND THE PROJECT PLANS NEED TO BE DOCUMENTED AND PROVIDED TO OCPR PROJECT ENGINEER OR ASSIGNED PROJECT REPRESENTATIVE FOR ACCEPTANCE.
- DISTURBANCE TO MARINE TRAFFIC NEEDS TO BE AVOIDED BY THE CONTRACTOR. NECESSARY WARNING SIGNS/TEMPORARY NAVIGATIONAL AIDS SHALL BE INSTALLED IN ACCORDANCE WITH USCG REGULATIONS. SEQUENCE OF CONSTRUCTION AND PLAN FOR MAINTAINING MARINE TRAFFIC THROUGH THE STRUCTURE SHALL BE SUBMITTED TO OCPR FOR APPROVAL.
- EXISTING ELEVATIONS OF STRUCTURES AND NATURAL GROUND ARE BASED ON SURVEYS CONDUCTED IN 2008 AND 2010. IN AREAS WHERE SURVEY DATA WAS UNAVAILABLE, THE EXISTING CONDITIONS WERE EXTENDED AT THE SAME ELEVATION AS THE LAST MEASURED POINT. THE DRAWINGS INDICATE THE LOCATION OF 2008, 2010 AND EXTENDED DATA USED TO DEPICT EXISTING CONDITIONS.
- THE SOUTH COASTAL WETLANDS (SLCW) SECONDARY GPS NETWORK MONUMENT, "BA02SM01 AND/OR BA02SM02, SHALL BE USED FOR HORIZONTAL AND VERTICAL CONTROL. THE DATA SHEET FOR THESE MONUMENTS CAN BE FOUND IN APPENDIX D OF THE SPECIFICATIONS.
- CLEARING AND GRUBBING IN THE AREA OF THE BREACH REPAIRS MAY BE REQUIRED PRIOR TO COMMENCING BREACH REPAIR WORK. THIS WORK IS CONSIDERED INCIDENTAL TO THE BREACH REPAIR WORK.
- MEAN HIGH WATER AND MEAN LOW WATER DATA BASED UPON 2009 MONITORING DATA PROVIDED BY OCPR.

**SUMMARY OF ESTIMATED QUANTITIES**

**BASE BID**

ITEM No.	ITEM	UNIT	QUANTITY
1	MOBILIZATION AND DEMOBILIZATION	LUMP SUM	1
2	CONSTRUCTION SURVEYS	LUMP SUM	1
3	ACCESS AND FLOATATION CHANNELS	LUMP SUM	1
4	BREACH REPAIRS	LUMP SUM	1
5	TEMPORARY WARNING SIGNS AND LIGHTS	EACH	5
6	STRUCTURE 14A-TYPE V NAVIGATIONAL AID SUBSTRUCTURE AND SIGN REPLACEMENT	LUMP SUM	1
7	STRUCTURE 1, 4 AND 91-TYPE V NAVIGATIONAL AID SUBSTRUCTURE AND SIGN REPLACEMENT	LUMP SUM	1
8	10 lb RIPRAP	TONS	2,600
9	130 lb RIPRAP	TONS	25,000
10	250 lb RIPRAP	TONS	4,200
11	WOVEN GEOTEXTILE FABRIC	SQUARE YARDS	5,300

**ALTERNATE NO. 1**

ITEM No.	ITEM	UNIT	QUANTITY
1	130 lb RIPRAP	TONS	5,400

ITEM No.	WORK	ESTIMATED QUANTITY	UNIT	ESTIMATED UNIT PRICE	ESTIMATED AMOUNT	BID QUANTITY	BID UNIT PRICE	BID AMOUNT	AS-BUILT QUANTITY	AS-BUILT AMOUNT	
1	MOBILIZATION AND DEMOBILIZATION	1	L.S.	\$ 110,246.48	\$ 110,246.48	1	\$ 110,246.48	\$ 110,246.48	1	\$ 110,246.48	
2	CONSTRUCTION SURVEYS	1	L.S.	\$ 205,453.95	\$ 205,453.95	1	\$ 205,453.95	\$ 205,453.95	1	\$ 205,453.95	
3	ACCESS AND FLOATATION CHANNELS	1	L.S.	\$ 52,130.41	\$ 52,130.41	1	\$ 52,130.41	\$ 52,130.41	1	\$ 52,130.41	
4	BREACH REPAIRS	1	L.S.	\$ 54,551.93	\$ 54,551.93	1	\$ 54,551.93	\$ 54,551.93	1	\$ 54,551.93	
5	TEMPORARY WARNING SIGNS AND LIGHTS	5	EA.	\$ 3,676.79	\$ 18,383.95	5	\$ 3,676.79	\$ 18,383.95	5	\$ 18,383.95	
6	STRUCTURE 14A-TYPE V NAVIGATIONAL AID SUBSTRUCTURE AND SIGN REPLACEMENT (INCLUDING RE-INSTALLATION OF EXISTING NAVIGATIONAL LIGHTS)	1	L.S.	\$ 76,323.08	\$ 76,323.08	1	\$ 76,323.08	\$ 76,323.08	1	\$ 76,323.08	
7	STRUCTURE 1, 4 AND 91-TYPE III AND V NAVIGATIONAL AID SUBSTRUCTURE AND SIGN REPLACEMENT	1	L.S.	\$ 76,438.17	\$ 76,438.17	1	\$ 76,438.17	\$ 76,438.17	1	\$ 76,438.17	
8	10 lb RIPRAP	2,600	TONS	\$ 67.26	\$ 174,876.00	2,600	\$ 67.26	\$ 174,876.00	2,664	\$ 179,180.64	
9	130 lb RIPRAP	18,430	TONS	\$ 66.38	\$ 1,223,383.40	18,430	\$ 66.38	\$ 1,223,383.40	18,223.50	\$ 1,209,675.93	
9(A)	130 lb RIPRAP (ROCK SHORELINE PROTECTION BETWEEN SITE 4 AND SITE 4A/B)	6,570	TONS	\$ 66.38	\$ 436,116.60	6,570	\$ 66.38	\$ 436,116.60	3,571	\$ 237,042.98	
10	250 lb RIPRAP	4,200	TONS	\$ 71.80	\$ 301,560.00	4,200	\$ 71.80	\$ 301,560.00	4,611	\$ 331,069.80	
11	WOVEN GEOTEXTILE FABRIC	5,300	S.Y.	\$ 3.54	\$ 18,762.00	5,300	\$ 3.54	\$ 18,762.00	4,791	\$ 16,960.14	
12	REIMBURSEMENT OF COST TO SHUT-DOWN ENTERGY TRANSMISSION LINE, INCLUDING 20' SAFETY ZONE OF NO CONSTRUCTION	2,592.93	ALLOWANCE	\$ 20,000.00	\$ 20,000.00	2,592.93	\$ 20,000.00	\$ 20,000.00	2,592.93	\$ 2,592.93	
13	INSTALL TWO PERMANENT WARNING SIGNS. ONE EACH AT THE CENTER OF EACH FISH DIP	1	L.S.	\$ 4,831.30	\$ 4,831.30	1	\$ 4,831.30	\$ 4,831.30	1	\$ 4,831.30	
<b>DNR ESTIMATED AMOUNT:</b>					<b>\$ 2,773,057.27</b>	<b>ORIGINAL BASE BID AMOUNT:</b>			<b>\$ 2,773,057.27</b>	<b>AS-BUILT AMOUNT</b>	<b>\$ 2,574,881.69</b>
A-1	130 lb RIPRAP	5,400	TONS	\$ 64.94	\$ 350,676.00	5,400	\$ 64.94	\$ 350,676.00	7,421.50	\$ 481,952.21	
<b>DNR ADDITIVE ALTERNATE ESTIMATED AMOUNT:</b>					<b>\$ 350,676.00</b>	<b>ORIGINAL ADDITIVE ALTERNATE BID AMOUNT:</b>			<b>\$ 350,676.00</b>	<b>AS-BUILT AMOUNT</b>	<b>\$ 481,952.21</b>
<b>TOTAL PROJECT COST:</b>										<b>\$ 3,056,833.90</b>	

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**AS-BUILT DRAWING**

REV.	DATE	DESCRIPTION	BY



**OFFICE OF COASTAL PROTECTION & RESTORATION  
ENGINEERING BRANCH**

450 LAUREL STREET, SUITE 1200  
BATON ROUGE, LOUISIANA 70804

DRAWN BY: LKL

DESIGNED BY: NJR

GIWW TO CLOVELLY HYDRAULIC RESTORATION  
2010 MAINTENANCE PROJECT

STATE PROJECT NUMBER: BA-02

FEDERAL PROJECT NUMBER: BA-02

APPROVED BY: JPS

GENERAL NOTES AND  
SUMMARY OF QUANTITIES

DATE: MARCH 2011

SHEET 2 OF 36

\$\$\$\$DATE\$\$\$\$

\$\$\$\$USER\$\$\$\$

\$\$\$\$FILENAME\$\$\$\$

**GENERAL SHEET NOTES**

1. ACCESS ROUTES ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY. ACCESS CHANNELS, OTHER THAN THOSE SHOWN ON THE PLANS MAY BE REQUIRED TO REACH SITES 2, 4, 4A / 4B, AND LAKE RIM. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ACCESS CHANNEL REQUIREMENTS PRIOR TO SUBMITTING BID AND INCLUDE IN BID PRICE.
2. SEE NOTE 4 AND NOTE 5, SHEET 2.



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**AS-BUILT DRAWING**

REV.	DATE	DESCRIPTION	BY



OFFICE OF COASTAL PROTECTION & RESTORATION  
**ENGINEERING BRANCH**  
 450 LAUREL STREET, SUITE 1200  
 BATON ROUGE, LOUISIANA 70804

GIWW TO CLOVELLY HYDRAULIC RESTORATION  
 2010 MAINTENANCE PROJECT

SITE LOCATIONS MAP

DRAWN BY: LKL

DESIGNED BY: NJR

STATE PROJECT NUMBER:

FEDERAL PROJECT NUMBER:

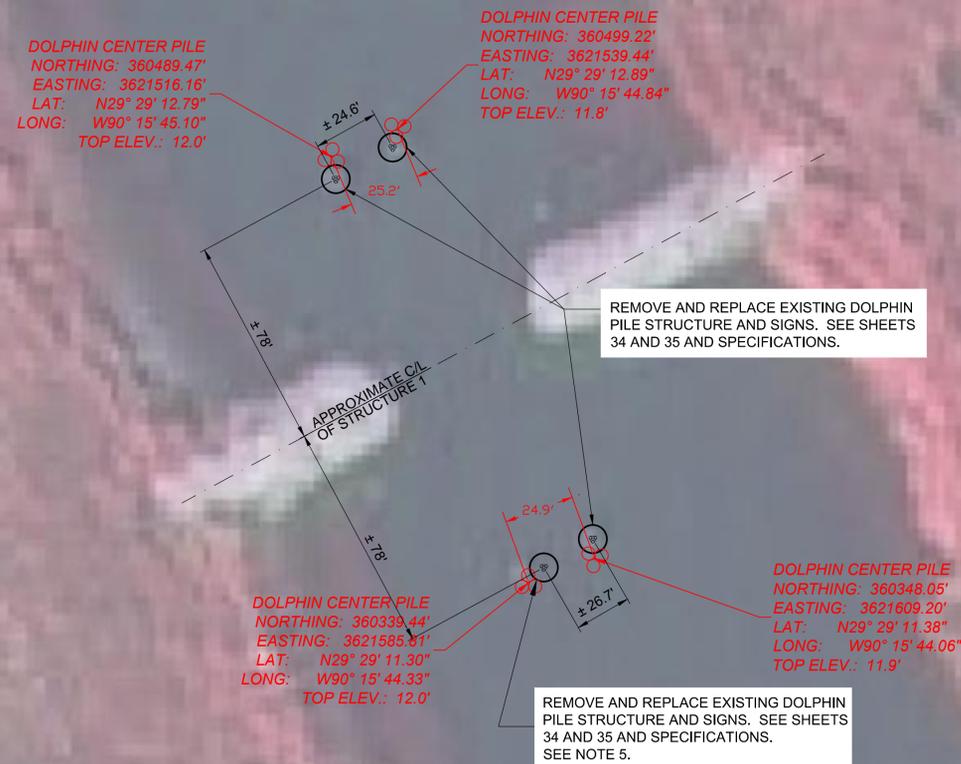
APPROVED BY: JPS

DATE: MARCH 2011

SHEET 3 OF 36

**GENERAL SHEET NOTES**

1. CONTRACTOR SHALL INSTALL TEMPORARY BENCHMARK AT SITE 1 UTILIZING SAME DATUM AS THE CONTROL MONUMENTS. SEE SPECIFICATIONS.
2. DISTURBANCE TO MARINE TRAFFIC NEEDS TO BE AVOIDED BY THE CONTRACTOR. NECESSARY WARNING SIGNS/TEMPORARY NAVIGATIONAL AIDS SHALL BE INSTALLED IN ACCORDANCE WITH USCG REGULATIONS. SEQUENCE OF CONSTRUCTION AND PLAN FOR MAINTAINING MARINE TRAFFIC THROUGH THE STRUCTURE SHALL BE SUBMITTED TO OCPR FOR APPROVAL.
3. SHOWN DIMENSIONS ARE APPROXIMATE. CONTRACTOR TO VERIFY LOCATION OF AND DISTANCE BETWEEN EXISTING PILE STRUCTURES PRIOR TO REMOVAL.
4. CONTRACTOR TO COORDINATE LOCATION OF NEW PILE STRUCTURES WITH OCPR PROJECT ENGINEER OR ASSIGNED PROJECT REPRESENTATIVE PRIOR TO INSTALLATION.
5. EXISTING DOLPHIN PILE STRUCTURE AT THIS LOCATION HAS BEEN KNOCKED OVER AND POSSIBLY SHEARED BELOW THE WATER LINE. CONTRACTOR TO REMOVE EXISTING DOLPHIN PILE STRUCTURE AND PORTIONS OF PILE STRUCTURE THAT MAY BE RESIDING IN THE BOTTOM OF CANAL.

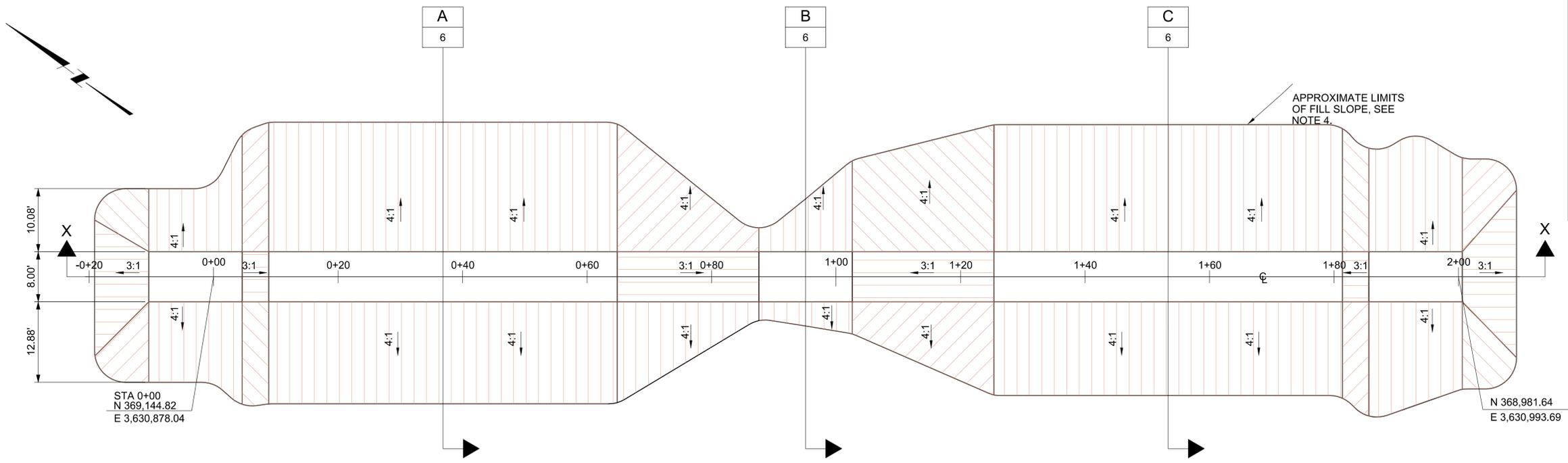


PLAN  
 SCALE: 1" = 60'

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**AS-BUILT DRAWING**

					OFFICE OF COASTAL PROTECTION & RESTORATION ENGINEERING BRANCH 450 LAUREL STREET, SUITE 1200 BATON ROUGE, LOUISIANA 70804		GIWW TO CLOVELLY HYDRAULIC RESTORATION 2010 MAINTENANCE PROJECT		#1111 SITE 1 - PLAN	
					DRAWN BY: LKL	DESIGNED BY: NJR	STATE PROJECT NUMBER: BA-02 FEDERAL PROJECT NUMBER: BA-02		DATE: MARCH 2011	
REV.	DATE	DESCRIPTION	BY			APPROVED BY: JPS	SHEET 4 OF 36			

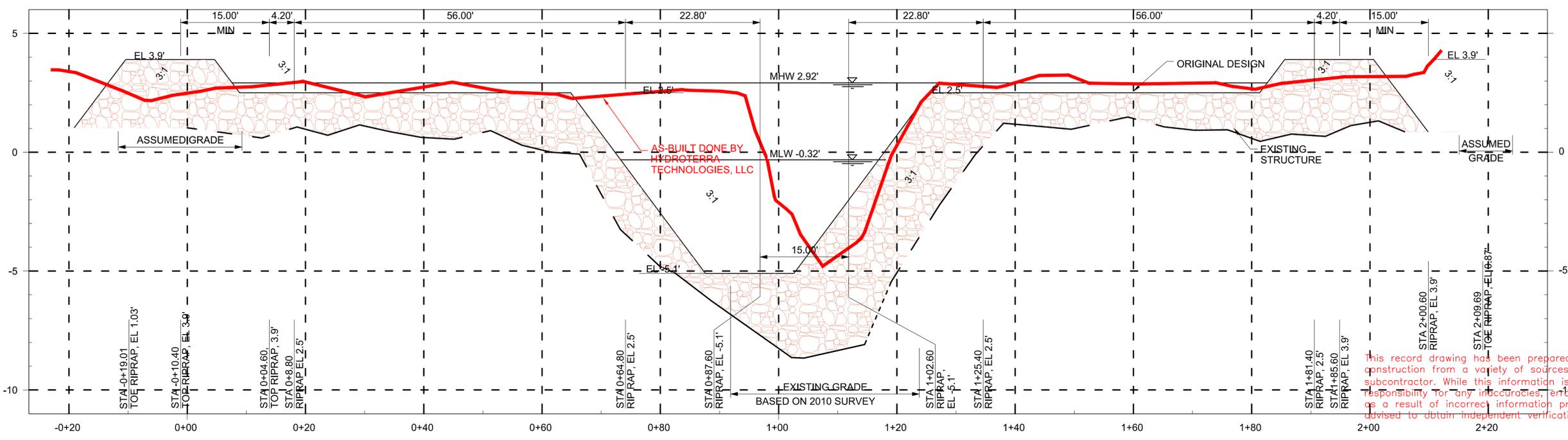


- GENERAL SHEET NOTES**
1. RECAP EXISTING STRUCTURE ACCORDING TO THE LINES AND GRADES ON THE DRAWINGS. THE LINES AND GRADES ON THE DRAWINGS REFLECT THE ORIGINAL PERMITTED DESIGN.
  2. EXISTING GRADE ELEVATIONS ARE BASED ON 2008 SURVEY DATA UNLESS SHOWN OTHERWISE.
  3. CONTRACTOR SHALL INSTALL TEMPORARY BENCH MARK AT SITE 2 UTILIZING SAME DATUM AS THE CONTROL MONUMENTS. SEE SPECIFICATIONS.
  4. CONTRACTOR SHALL PLACE FILL SLOPE UNTIL EXISTING BOTTOM IS REACHED.

**AS-BUILT SURVEY VOLUME TABLE**

Station	Area	Volume	Cumulative Volume
0+08.80	50.95	0.00	0.00 (CuYds)
0+64.80	126.80	184.33	184.33 (CuYds)
0+87.60	288.54	175.37	359.70 (CuYds)
0+95.10	413.21	97.47	457.16 (CuYds)
1+02.60	277.53	95.94	553.10 (CuYds)
1+25.40	184.51	195.08	748.18 (CuYds)
1+81.40	49.68	242.86	991.04 (CuYds)
2+09.41	23.93	38.18	1029.21 (CuYds)

**PLAN - STRUCTURE 2**  
SCALE: 1" = 20'



**STRUCTURE 2 PROFILE X-X**  
HORIZONTAL SCALE: 1" = 20'  
VERTICAL SCALE: 1" = 5'

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**AS-BUILT DRAWING**

REV.	DATE	DESCRIPTION	BY



**OFFICE OF COASTAL PROTECTION & RESTORATION  
ENGINEERING BRANCH**

450 LAUREL STREET, SUITE 1200  
BATON ROUGE, LOUISIANA 70804

GIWW TO CLOVELLY HYDRAULIC RESTORATION  
2010 MAINTENANCE PROJECT

STATE PROJECT NUMBER: BA-02

FEDERAL PROJECT NUMBER: BA-02

DRAWN BY: LKL

DESIGNED BY: NIR

APPROVED BY: JPS

#####  
SITE 2 -  
PLAN AND PROFILE

DATE: MARCH 2011

SHEET 5 OF 36

**GENERAL SHEET NOTES**

- 1. SURVEY DATA PROVIDED FOR INFORMATIONAL PURPOSES.



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**AS-BUILT DRAWING**

NOTE: SURVEY DATA COLLECTED FROM 2010

REV.	DATE	DESCRIPTION	BY



OFFICE OF COASTAL PROTECTION & RESTORATION  
**ENGINEERING BRANCH**  
 450 LAUREL STREET, SUITE 1200  
 BATON ROUGE, LOUISIANA 70804

GIWW TO CLOVELLY HYDRAULIC RESTORATION  
 2010 MAINTENANCE PROJECT

STATE PROJECT NUMBER: BA-02

FEDERAL PROJECT NUMBER: BA-02

APPROVED BY: JPS

#####

SITE 2 -  
 OVERALL PLAN

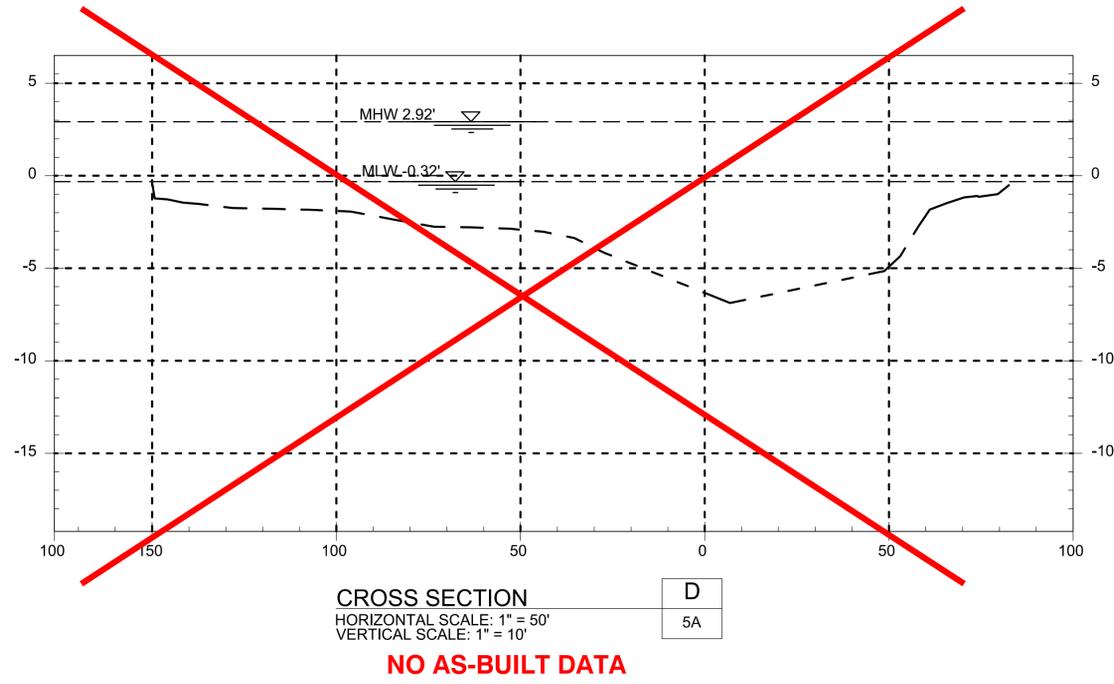
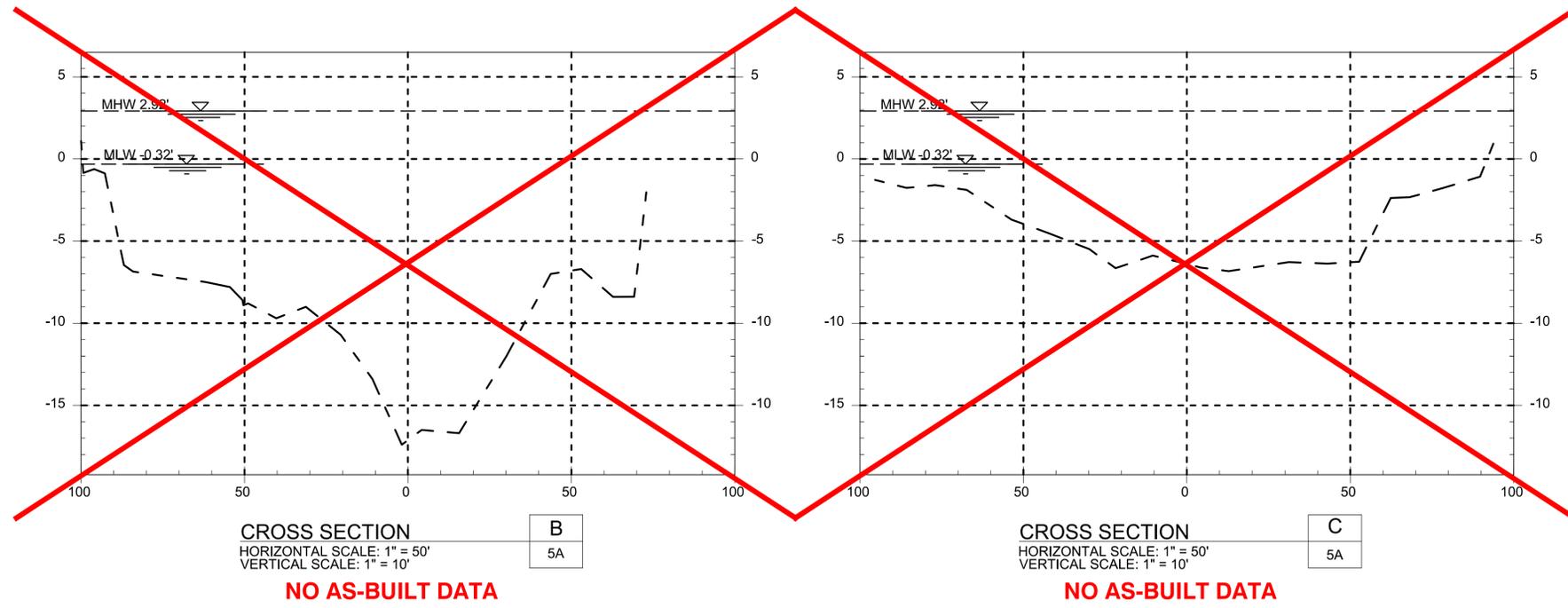
DATE: MARCH 2011

SHEET 5A OF 36

DRAWN BY: LKL      DESIGNED BY: NJR

GENERAL SHEET NOTES

1. SURVEY DATA PROVIDED FOR INFORMATIONAL PURPOSES.



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**AS-BUILT DRAWING**

REV.	DATE	DESCRIPTION	BY



OFFICE OF COASTAL PROTECTION & RESTORATION  
**ENGINEERING BRANCH**  
 450 LAUREL STREET, SUITE 1200  
 BATON ROUGE, LOUISIANA 70804

DRAWN BY: LKL      DESIGNED BY: NJR

GIWW TO CLOVELLY HYDRAULIC RESTORATION  
 2010 MAINTENANCE PROJECT

STATE PROJECT NUMBER: BA-02  
 FEDERAL PROJECT NUMBER: BA-02

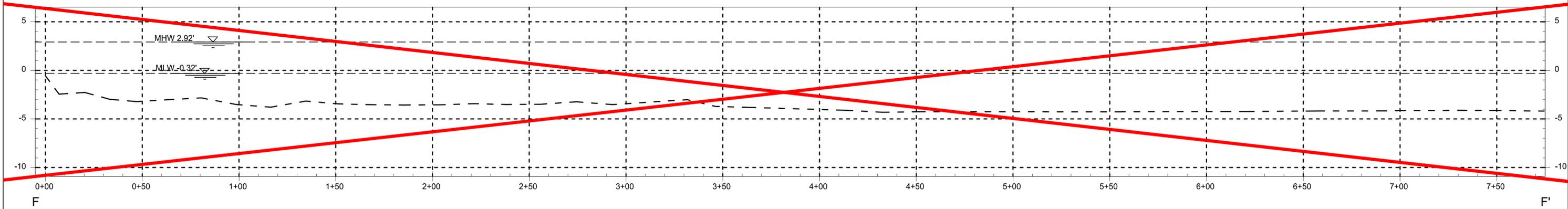
APPROVED BY: JPS

#####  
 SITE 2 -  
 CROSS SECTIONS

DATE: MARCH 2011  
 SHEET 5B OF 36

GENERAL SHEET NOTES

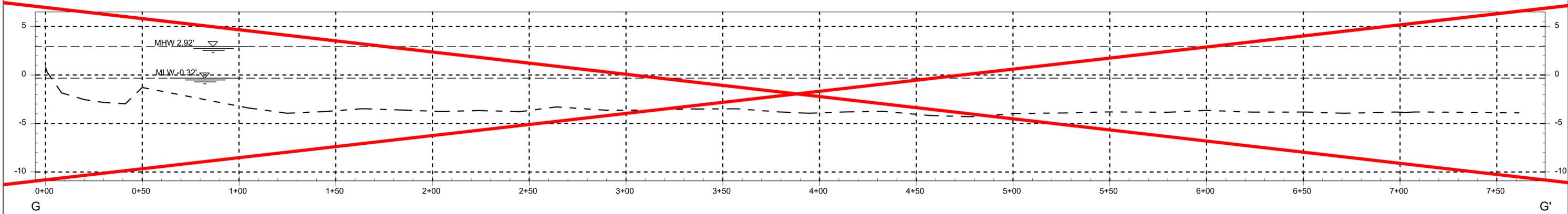
1. SURVEY DATA PROVIDED FOR INFORMATIONAL PURPOSES.



CROSS SECTION  
HORIZONTAL SCALE: 1" = 50'  
VERTICAL SCALE: 1" = 10'

F
5A

**NO AS-BUILT DATA**



CROSS SECTION  
HORIZONTAL SCALE: 1" = 50'  
VERTICAL SCALE: 1" = 10'

G
5A

**NO AS-BUILT DATA**

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**AS-BUILT DRAWING**

REV.	DATE	DESCRIPTION	BY



OFFICE OF COASTAL PROTECTION & RESTORATION  
**ENGINEERING BRANCH**

450 LAUREL STREET, SUITE 1200  
BATON ROUGE, LOUISIANA 70804

DRAWN BY: LKL

DESIGNED BY: NJR

GIWW TO CLOVELLY HYDRAULIC RESTORATION  
2010 MAINTENANCE PROJECT

STATE PROJECT NUMBER: BA-02

FEDERAL PROJECT NUMBER: BA-02

APPROVED BY: JPS

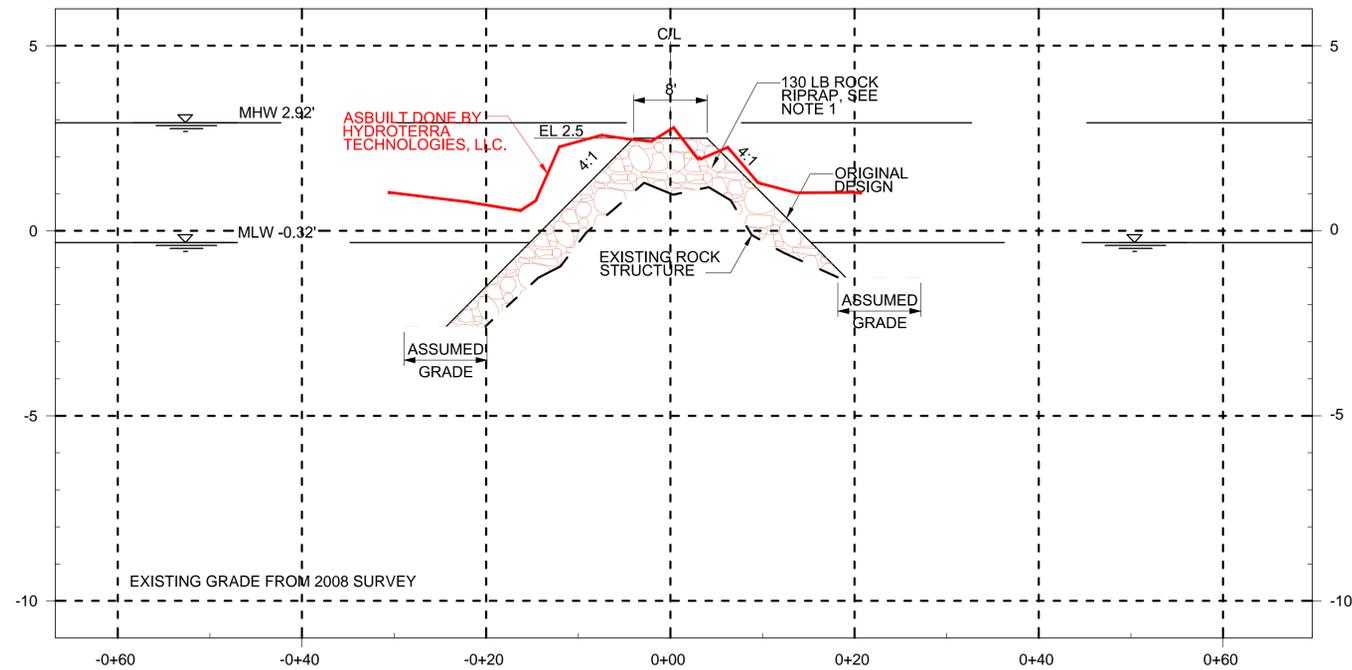
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SITE 2 -  
CROSS SECTIONS

DATE: MARCH 2011

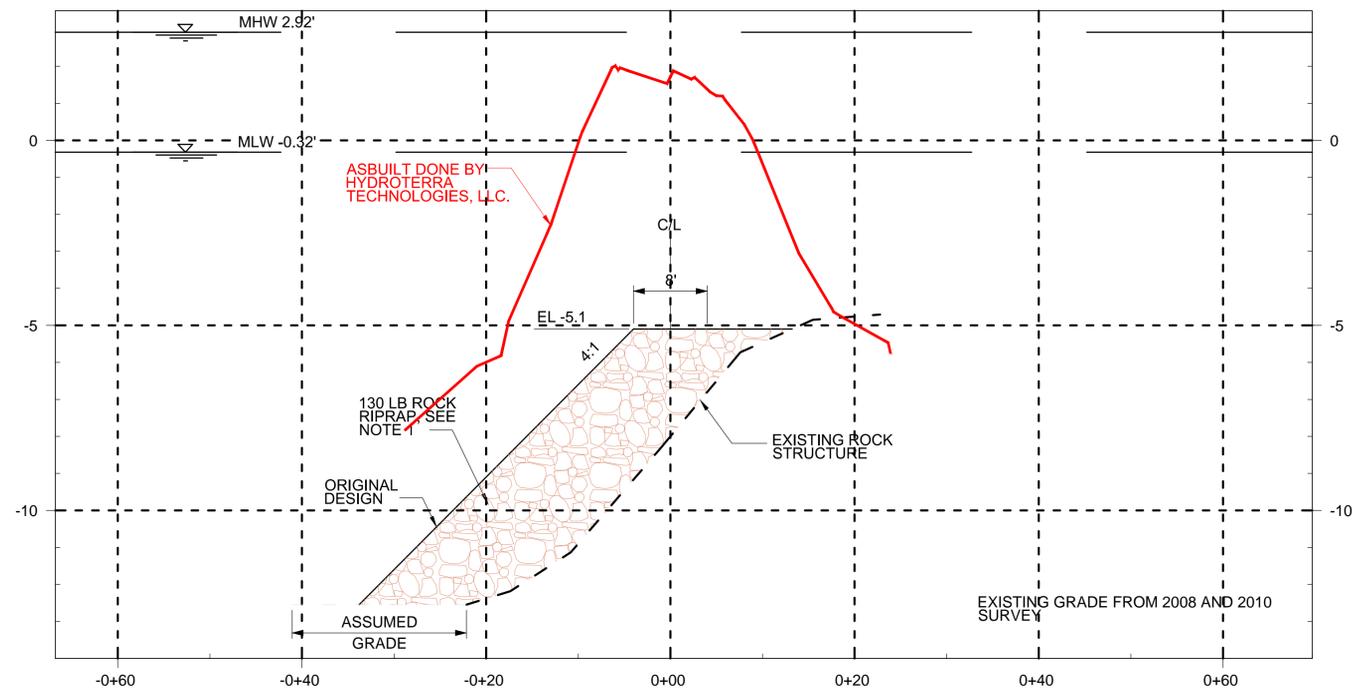
SHEET 5C OF 36

**GENERAL SHEET NOTES**

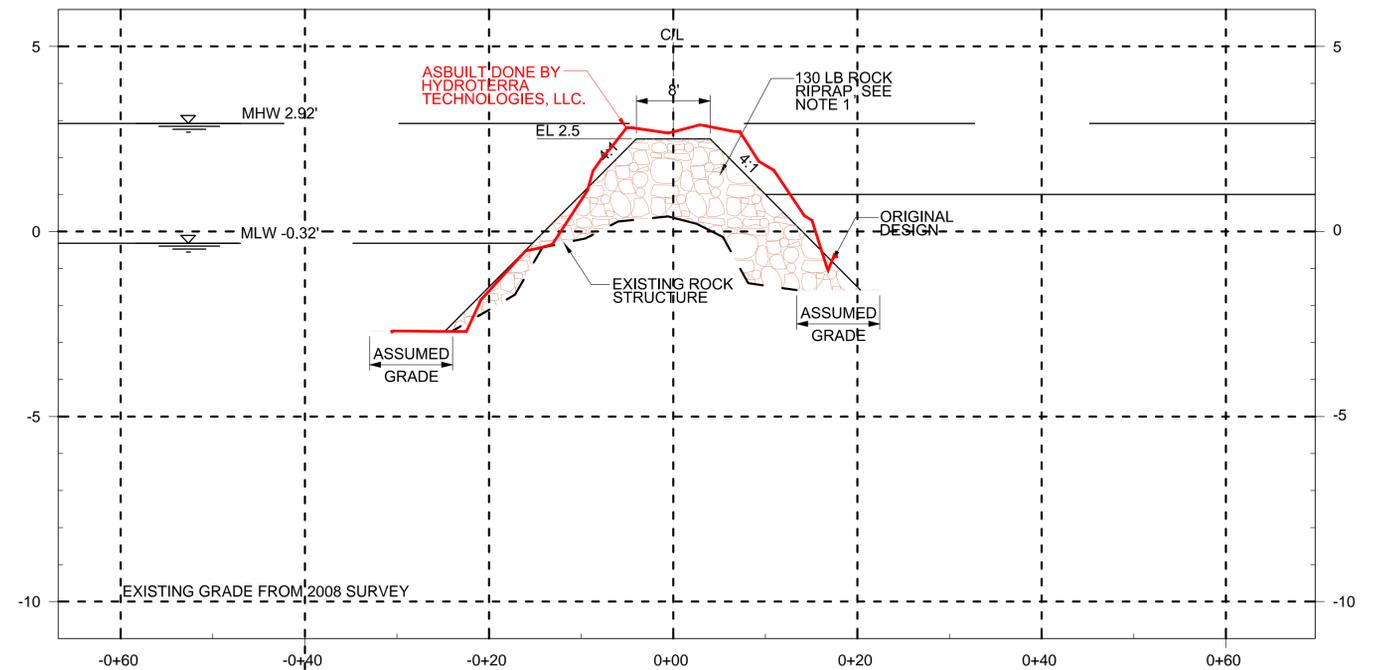
1. RECAP EXISTING STRUCTURE ACCORDING TO THE LINES AND GRADES ON THE DRAWINGS. THE LINES AND GRADES ON THE DRAWINGS REFLECT THE ORIGINAL PERMITTED DESIGN.
2. EXISTING GRADE ELEVATIONS ARE BASED ON 2008 SURVEY DATA UNLESS SHOWN OTHERWISE.



**CROSS SECTION A**  
 AS-BUILT CROSS SECTION AT STA 0+09  
 HORIZONTAL SCALE: 1" = 20'  
 VERTICAL SCALE: 1" = 5'



**CROSS SECTION B**  
 AS-BUILT CROSS SECTION AT STA 0+95  
 HORIZONTAL SCALE: 1" = 20'  
 VERTICAL SCALE: 1" = 5'



**CROSS SECTION C**  
 AS-BUILT CROSS SECTION AT STA 1+81  
 HORIZONTAL SCALE: 1" = 20'  
 VERTICAL SCALE: 1" = 5'

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**AS-BUILT DRAWING**

REV.	DATE	DESCRIPTION	BY



OFFICE OF COASTAL PROTECTION & RESTORATION  
**ENGINEERING BRANCH**

450 LAUREL STREET, SUITE 1200  
 BATON ROUGE, LOUISIANA 70804

DRAWN BY: LKL

DESIGNED BY: NJR

GIWW TO CLOVELLY HYDRAULIC RESTORATION  
 2010 MAINTENANCE PROJECT

STATE PROJECT NUMBER: BA-02

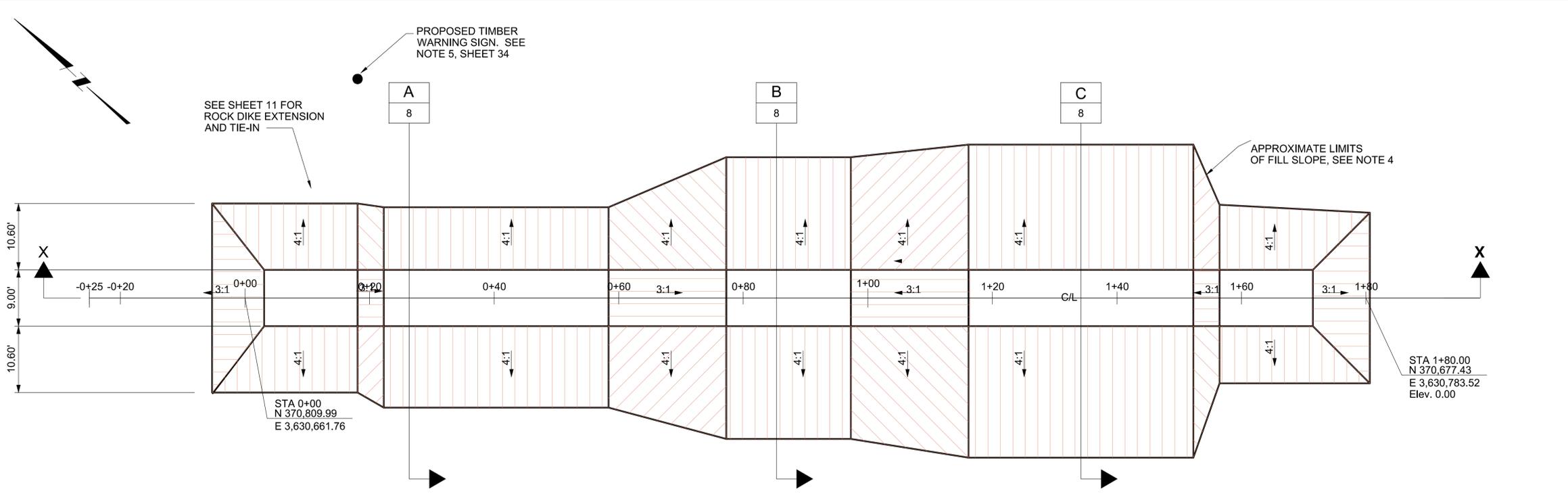
FEDERAL PROJECT NUMBER: BA-02

APPROVED BY: JPS

#####  
 SITE 2 -  
 CROSS SECTIONS

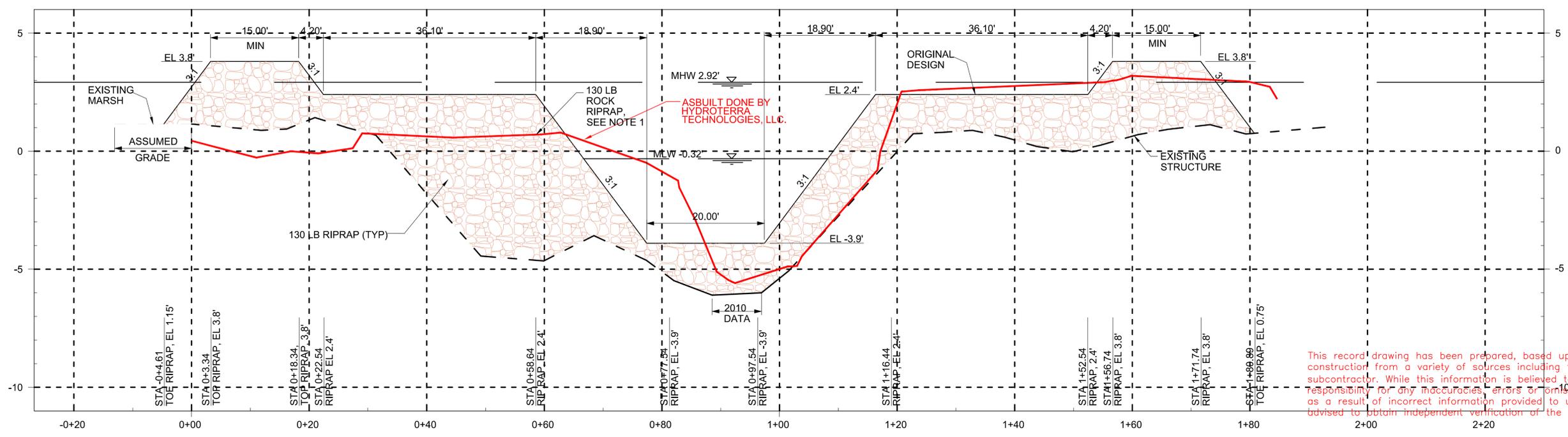
DATE: MARCH 2011

SHEET 6 OF 36



- ### GENERAL SHEET NOTES
- RECAP EXISTING STRUCTURE ACCORDING TO THE LINES AND GRADES ON THE DRAWINGS. THE LINES AND GRADES ON THE DRAWINGS REFLECT THE ORIGINAL PERMITTED DESIGN.
  - EXISTING GRADE ELEVATIONS ARE BASED ON 2008 SURVEY DATA UNLESS SHOWN OTHERWISE.
  - CONTRACTOR SHALL INSTALL TEMPORARY BENCH MARK AT SITE 4 UTILIZING SAME DATUM AS THE CONTROL MONUMENTS. SEE SPECIFICATIONS.
  - CONTRACTOR SHALL PLACE FILL SLOPE UNTIL EXISTING BOTTOM IS REACHED.
  - CONTRACTOR TO COORDINATE LOCATION OF NEW PILE STRUCTURE WITH OCPD PROJECT ENGINEER OR ASSIGNED PROJECT REPRESENTATIVE PRIOR TO INSTALLATION.
  - SEE SHEET 11 FOR LOCATION OF STRUCTURE 4.

Structure 4 Recapping Fill Volume Table			
Station	Area	Volume	Cumulative Volume
-0+04.63	2.12	0.00	0.00 (CuYds)
0+22.54	28.40	15.36	15.36 (CuYds)
0+58.64	243.80	181.97	197.33 (CuYds)
0+77.54	5.73	87.34	284.67 (CuYds)
0+87.48	49.76	10.21	294.88 (CuYds)
0+97.54	37.36	16.23	311.11 (CuYds)
1+16.44	224.95	91.81	402.92 (CuYds)
1+52.54	90.53	210.90	613.82 (CuYds)
1+79.99	5.48	48.81	662.64 (CuYds)
TONNAGE = (1.5 X 662.64)			993.96 TONS



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**AS-BUILT DRAWING**

REV.	DATE	DESCRIPTION	BY



OFFICE OF COASTAL PROTECTION & RESTORATION  
ENGINEERING BRANCH  
450 LAUREL STREET, SUITE 1200  
BATON ROUGE, LOUISIANA 70804

DRAWN BY: LKL      DESIGNED BY: NJR

GIWW TO CLOVELLY HYDRAULIC RESTORATION  
2010 MAINTENANCE PROJECT

STATE PROJECT NUMBER: BA-02  
FEDERAL PROJECT NUMBER: BA-02

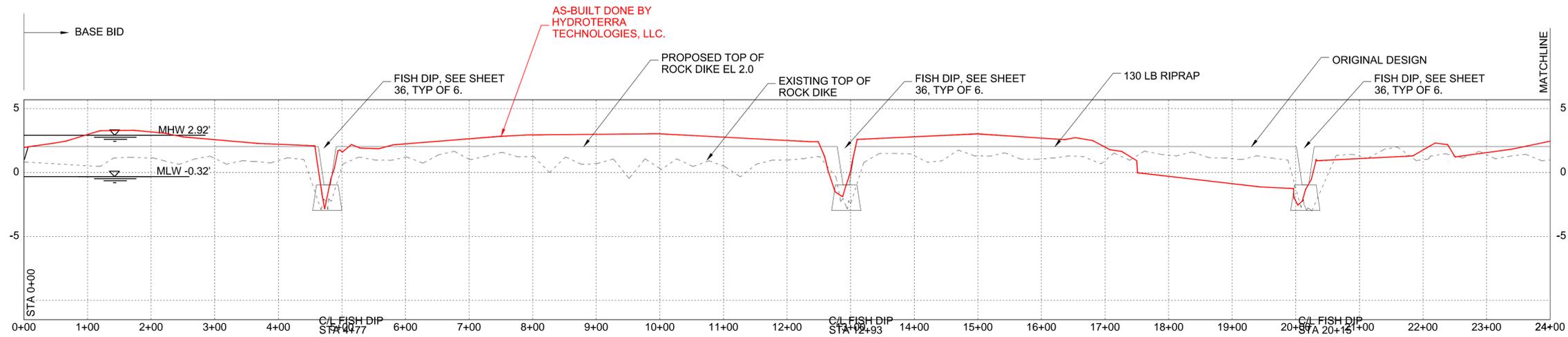
APPROVED BY: JPS

#####  
SITE 4 -  
PLAN AND PROFILE

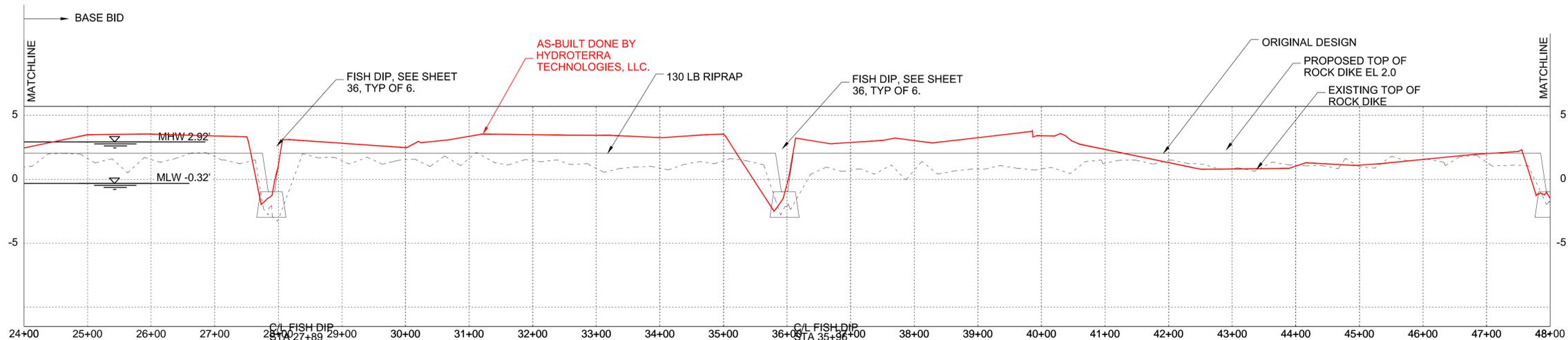
DATE: MARCH 2011  
SHEET 7 OF 36

GENERAL SHEET NOTES

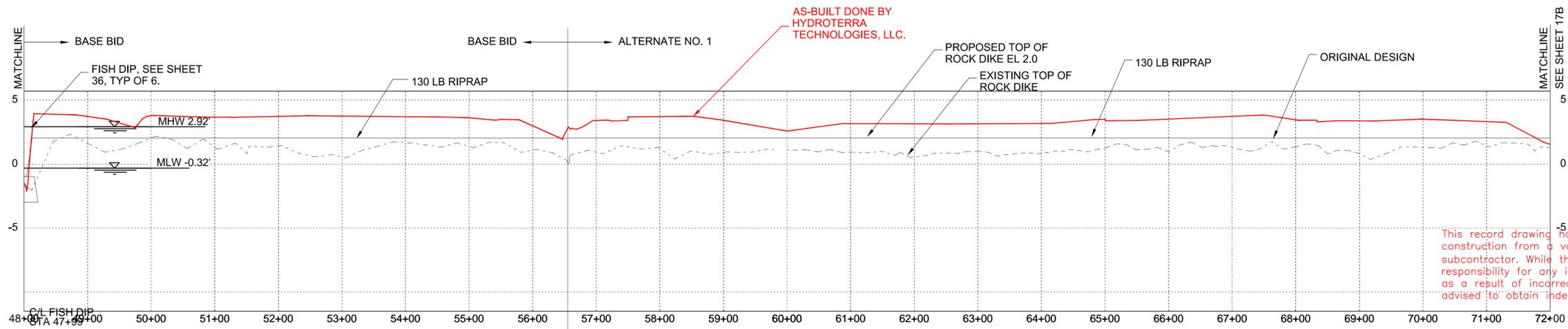
1. PLACE ROCK FLUSH AGAINST EXISTING ROCK WHERE THE TOP OF DIKE ELEVATION IS EL 2.0 OR GREATER.
2. EXISTING GRADE ELEVATIONS ARE BASED ON A COMBINATION OF 2008 AND 2010 SURVEY DATA.
3. FOR TYPICAL SECTION OF PROPOSED ROCK DIKE, SEE DETAIL C, SHEET 36.
4. RECAP EXISTING STRUCTURE ACCORDING TO THE LINES AND GRADES ON THE DRAWINGS. THE LINES AND GRADES ON THE DRAWINGS REFLECT THE ORIGINAL PERMITTED DESIGN.



LAKE RIM PROFILE STA 0+00 TO STA 24+00  
HORIZONTAL SCALE: 1" = 200'  
VERTICAL SCALE: 1" = 10'



LAKE RIM PROFILE STA 24+00 TO STA 48+00  
HORIZONTAL SCALE: 1" = 200'  
VERTICAL SCALE: 1" = 10'



LAKE RIM PROFILE STA 48+00 TO STA 72+00  
HORIZONTAL SCALE: 1" = 200'  
VERTICAL SCALE: 1" = 10'

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**AS-BUILT DRAWING**

REV.	DATE	DESCRIPTION	BY



OFFICE OF COASTAL PROTECTION & RESTORATION  
ENGINEERING BRANCH

450 LAUREL STREET, SUITE 1200  
BATON ROUGE, LOUISIANA 70804

DRAWN BY: LKL

DESIGNED BY: NJR

GIWW TO CLOVELLY HYDRAULIC RESTORATION  
2010 MAINTENANCE PROJECT

STATE PROJECT NUMBER: BA-02

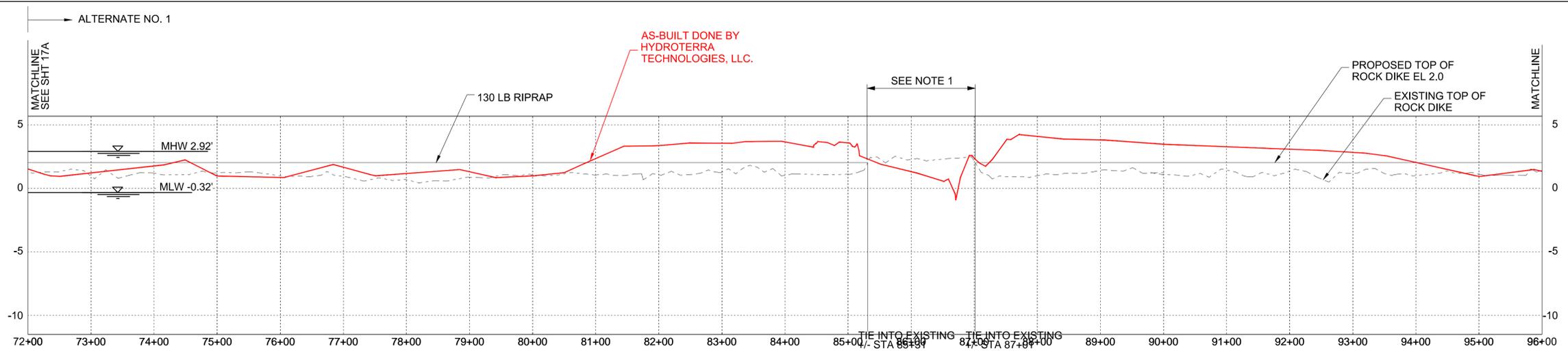
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APPROVED BY: JPS

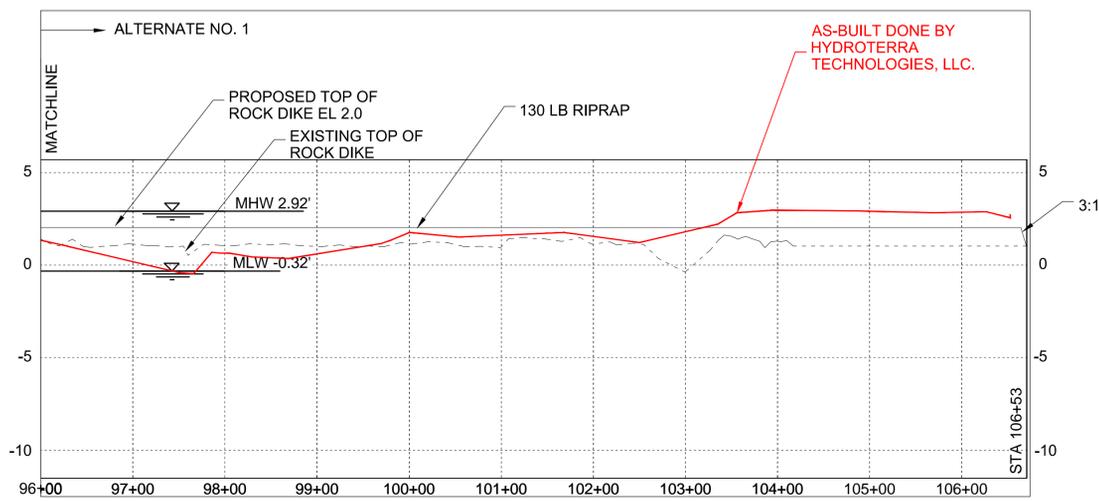
LAKE RIM -  
PROFILES  
BASE BID / ALTERNATE NO. 1

DATE: MARCH 2011

SHEET 17A OF 36



LAKE RIM PROFILE STA 72+00 TO STA 96+00  
 HORIZONTAL SCALE: 1" = 200'  
 VERTICAL SCALE: 1" = 10'



LAKE RIM PROFILE STA 96+00 TO STA 106+53  
 HORIZONTAL SCALE: 1" = 200'  
 VERTICAL SCALE: 1" = 10'

GENERAL SHEET NOTES

1. PLACE ROCK FLUSH AGAINST EXISTING ROCK WHERE THE TOP OF DIKE ELEVATION IS EL 2.0 OR GREATER.
2. EXISTING GRADE ELEVATIONS ARE BASED ON A COMBINATION OF 2008 AND 2010 SURVEY DATA.
3. FOR TYPICAL SECTION OF PROPOSED ROCK DIKE, SEE DETAIL C, SHEET 36.
4. RECAP EXISTING STRUCTURE ACCORDING TO THE LINES AND GRADES ON THE DRAWINGS. THE LINES AND GRADES ON THE DRAWINGS REFLECT THE ORIGINAL PERMITTED DESIGN.

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**AS-BUILT DRAWING**

REV.	DATE	DESCRIPTION	BY



OFFICE OF COASTAL PROTECTION & RESTORATION  
**ENGINEERING BRANCH**

450 LAUREL STREET, SUITE 1200  
 BATON ROUGE, LOUISIANA 70804

DRAWN BY: LKL

DESIGNED BY: NJR

GIWW TO CLOVELLY HYDRAULIC RESTORATION  
 2010 MAINTENANCE PROJECT

STATE PROJECT NUMBER: BA-02

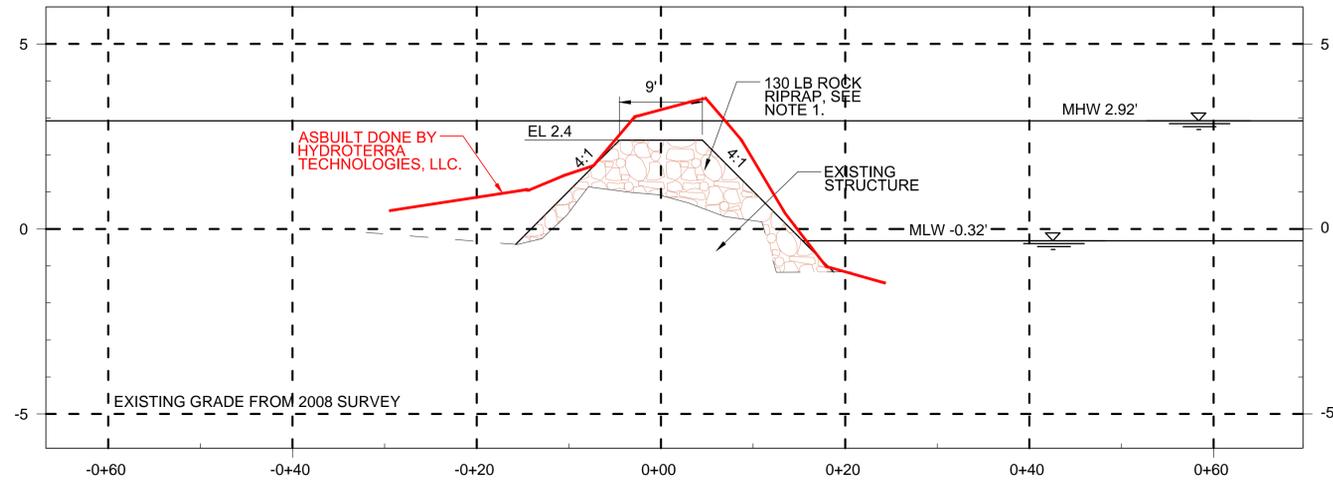
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APPROVED BY: JPS

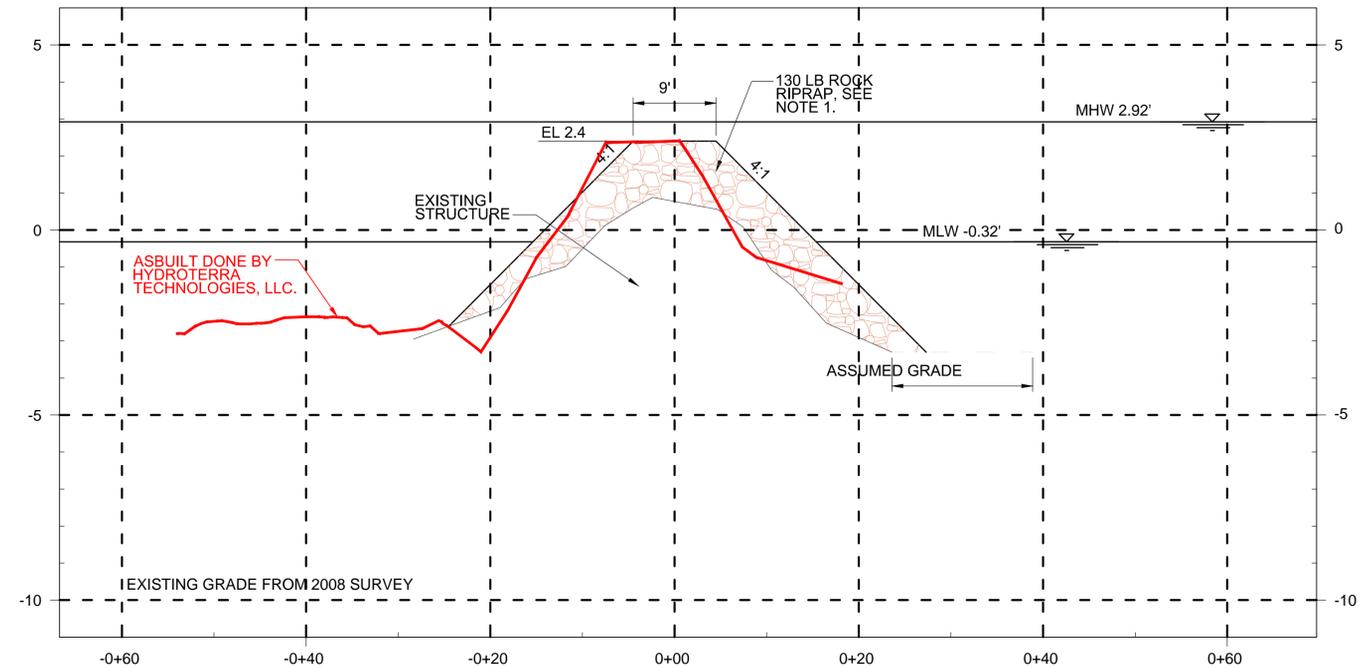
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 BRETON CANAL  
 PROFILES  
 ALTERNATE NO. 1

DATE: MARCH 2011

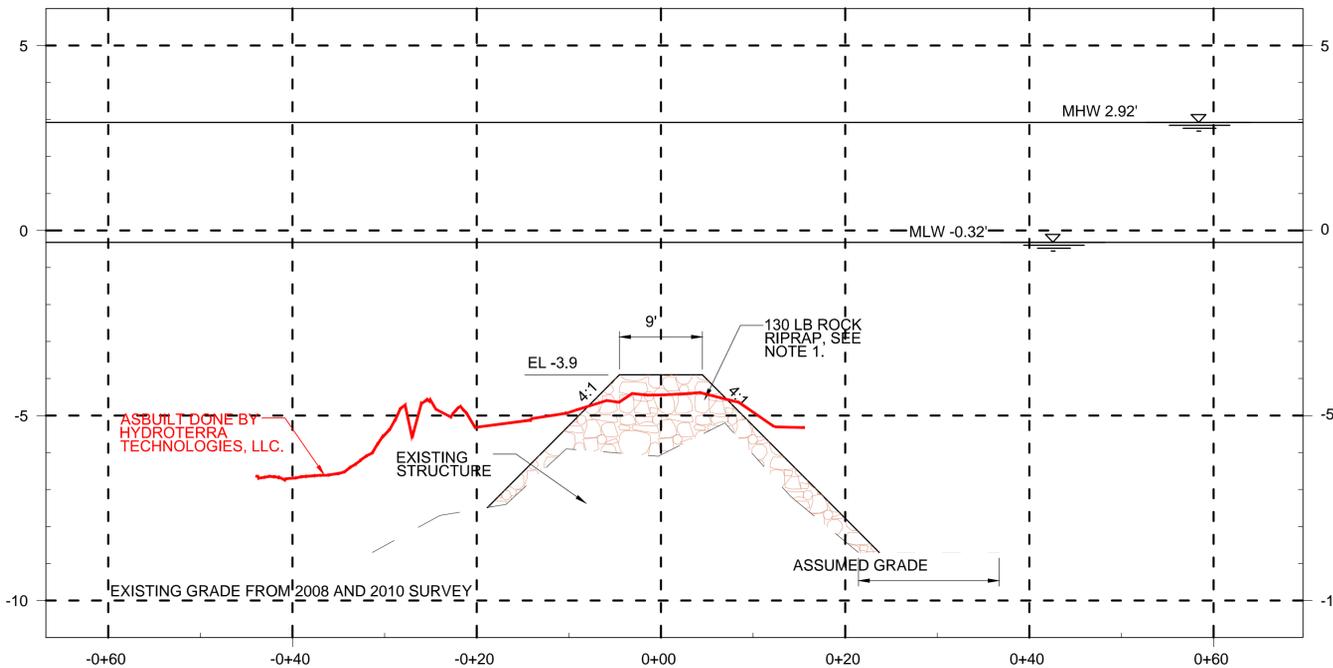
SHEET 7B OF 36



**CROSS SECTION A**  
 AS-BUILT CROSS SECTION  
 AT STA 0+23  
 HORIZONTAL SCALE: 1" = 20'  
 VERTICAL SCALE: 1" = 5'



**CROSS SECTION C**  
 AS-BUILT CROSS SECTION  
 AT STA 1+53  
 HORIZONTAL SCALE: 1" = 20'  
 VERTICAL SCALE: 1" = 5'



**CROSS SECTION B**  
 AS-BUILT CROSS SECTION  
 AT STA 0+87  
 HORIZONTAL SCALE: 1" = 20'  
 VERTICAL SCALE: 1" = 5'

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## AS-BUILT DRAWING

REV.	DATE	DESCRIPTION	BY



OFFICE OF COASTAL PROTECTION & RESTORATION  
 ENGINEERING BRANCH

450 LAUREL STREET, SUITE 1200  
 BATON ROUGE, LOUISIANA 70804

DRAWN BY: LKL

DESIGNED BY: NJR

GIWW TO CLOVELLY HYDRAULIC RESTORATION  
 2010 MAINTENANCE PROJECT

STATE PROJECT NUMBER: BA-02

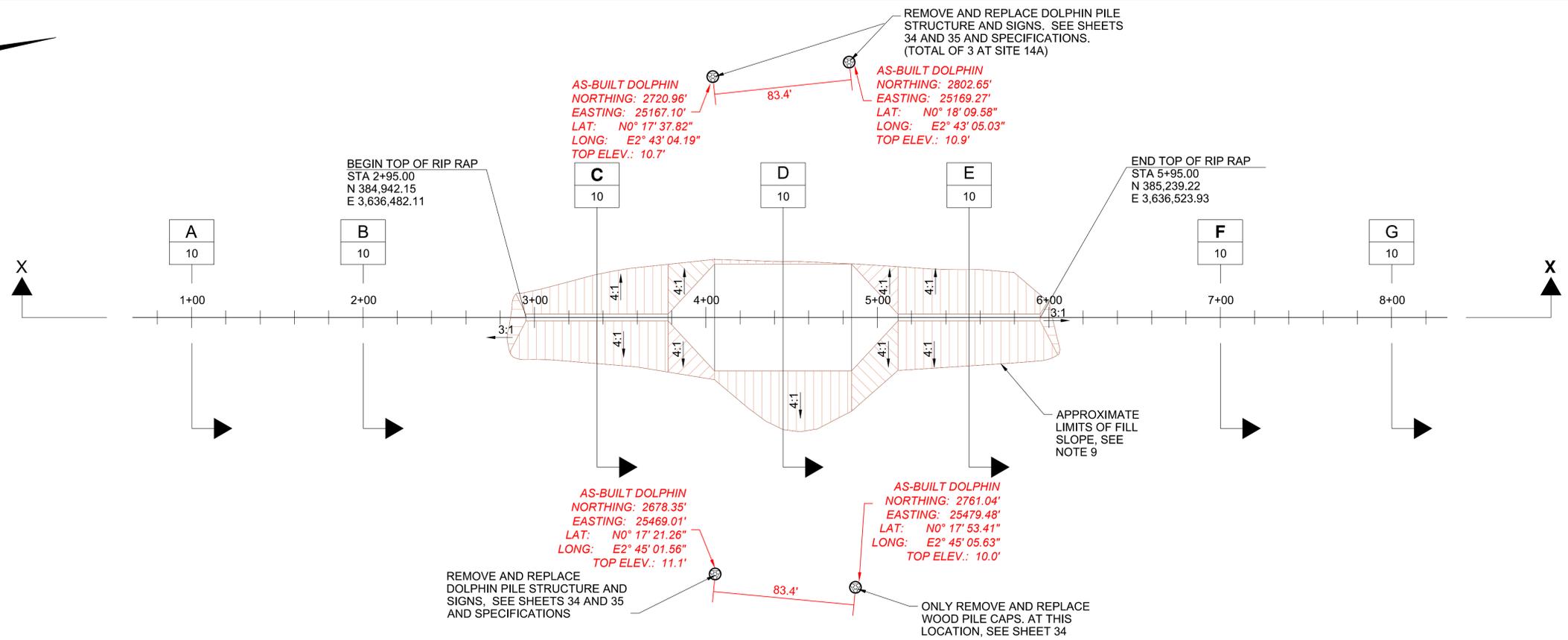
FEDERAL PROJECT NUMBER: BA-02

APPROVED BY: JPS

#####  
 SITE 4 -  
 CROSS SECTIONS

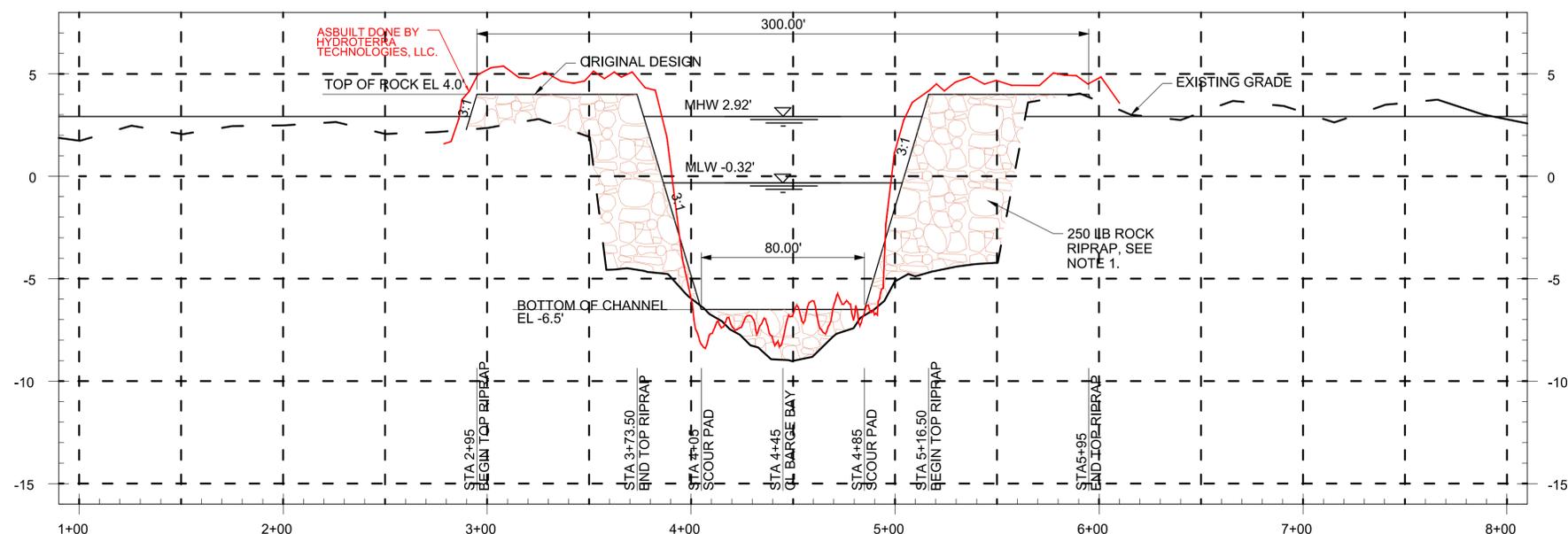
DATE: MARCH 2011

SHEET 8 OF 36



**PLAN - STRUCTURE 14A**  
SCALE: 1" = 80'

- GENERAL SHEET NOTES**
1. RECAP EXISTING STRUCTURE ACCORDING TO THE LINES AND GRADES ON THE DRAWINGS. THE LINES AND GRADES ON THE DRAWINGS REFLECT THE ORIGINAL PERMITTED DESIGN.
  2. EXISTING GRADE ELEVATIONS ARE BASED ON 2010 SURVEY DATA.
  3. DISTURBANCE TO MARINE TRAFFIC NEEDS TO BE AVOIDED BY THE CONTRACTOR. NECESSARY WARNING SIGNS/TEMPORARY NAVIGATIONAL AIDS SHALL BE INSTALLED IN ACCORDANCE WITH USCG REGULATION. SEQUENCE OF CONSTRUCTION AND PLAN FOR MAINTAINING MARINE TRAFFIC THROUGH THE STRUCTURE SHALL BE SUBMITTED TO OCPR FOR APPROVAL.
  4. CONTRACTOR SHALL REMOVE AND PROPERLY STORE EXISTING NAVIGATION LIGHTS. CONTRACTOR SHALL MAINTAIN REMOVED LIGHTS IN WORKING ORDER AND RE-INSTALL THE LIGHTS ON THE NEW DOLPHIN PILE STRUCTURES.
  5. CONTRACTOR SHALL INSTALL TEMPORARY BENCH MARK AT SITE 14A UTILIZING SAME DATUM AS THE CONTROL MONUMENTS. SEE SPECIFICATIONS.
  6. CONTRACTOR TO VERIFY LOCATION OF AND DISTANCE BETWEEN EXISTING PILE STRUCTURES PRIOR TO REMOVAL.
  7. CONTRACTOR TO COORDINATE LOCATION OF NEW PILE STRUCTURES WITH OCPR PROJECT ENGINEER OR ASSIGNED PROJECT REPRESENTATIVE PRIOR TO INSTALLATION.
  8. CONTRACTOR SHALL PLACE FILL SLOPE UNTIL EXISTING BOTTOM IS REACHED.



**STRUCTURE 14A PROFILE X-X**  
HORIZONTAL SCALE: 1" = 80'  
VERTICAL SCALE: 1" = 8'

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**AS-BUILT DRAWING**

REV.	DATE	DESCRIPTION	BY



OFFICE OF COASTAL PROTECTION & RESTORATION  
**ENGINEERING BRANCH**

450 LAUREL STREET, SUITE 1200  
BATON ROUGE, LOUISIANA 70804

DRAWN BY: LKL

DESIGNED BY: NJR

GIWW TO CLOVELLY HYDRAULIC RESTORATION  
2010 MAINTENANCE PROJECT

STATE PROJECT NUMBER: BA-02

FEDERAL PROJECT NUMBER: BA-02

APPROVED BY: JPS

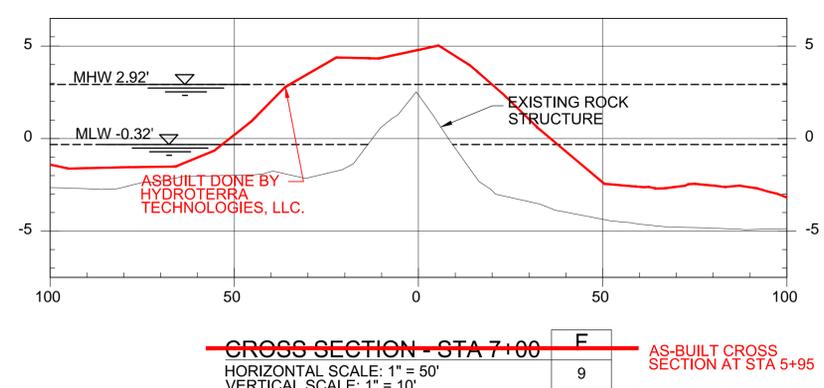
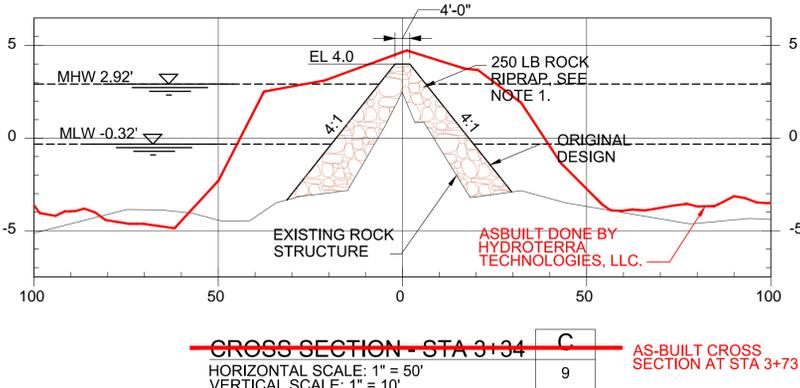
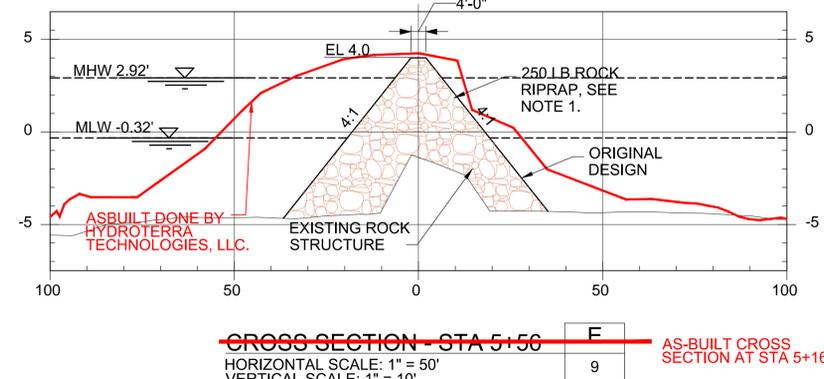
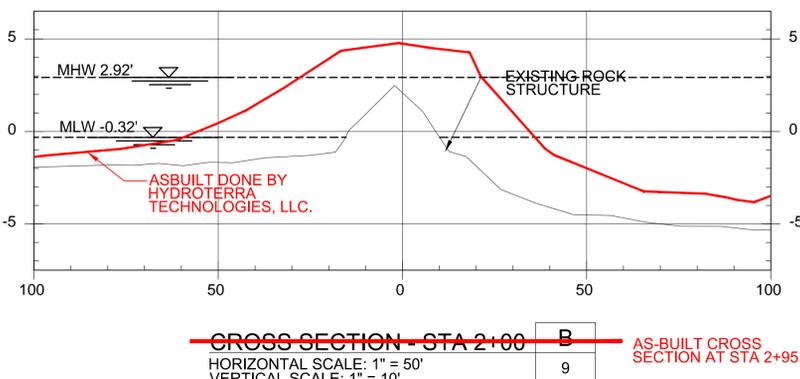
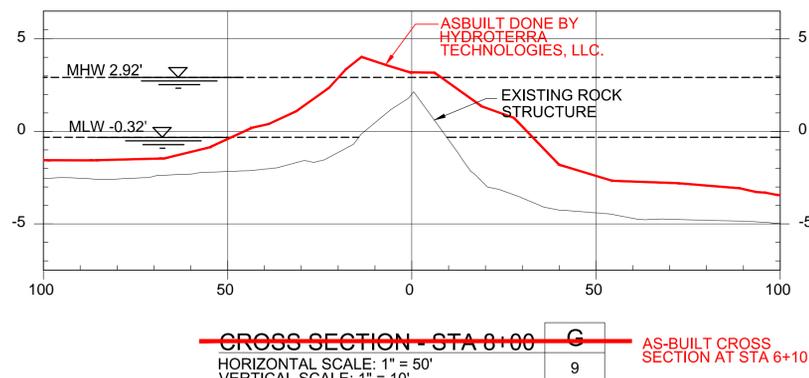
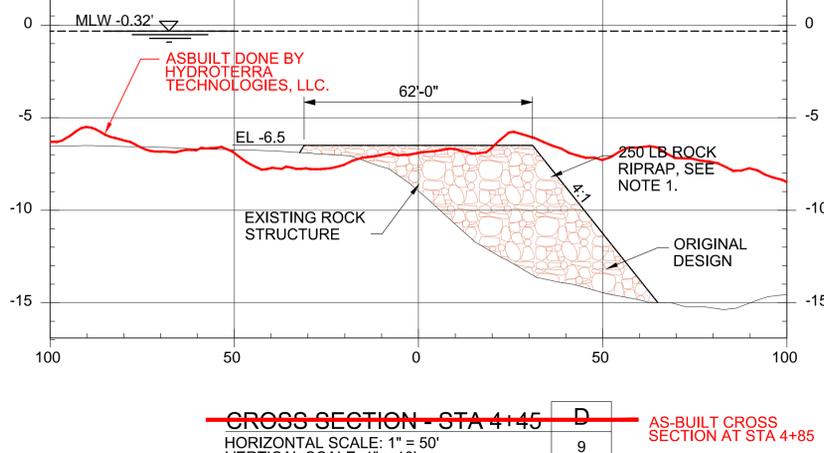
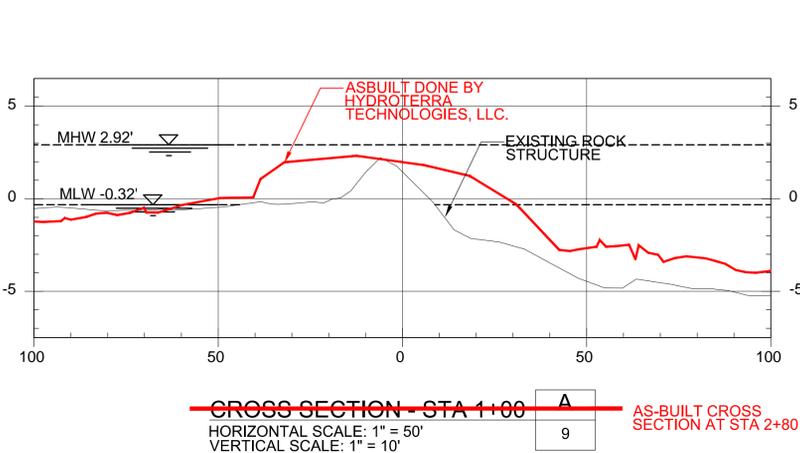
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SITE 14A -  
PLAN AND PROFILE

DATE: MARCH 2011

SHEET 9 OF 36

**GENERAL SHEET NOTES**

1. RECAP EXISTING STRUCTURE ACCORDING TO THE LINES AND GRADES ON THE DRAWINGS. THE LINES AND GRADES ON THE DRAWINGS REFLECT THE ORIGINAL PERMITTED DESIGN.
2. EXISTING GRADE ELEVATIONS ARE BASED ON 2010 SURVEY DATA.



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**AS-BUILT DRAWING**

REV.	DATE	DESCRIPTION	BY



OFFICE OF COASTAL PROTECTION & RESTORATION  
**ENGINEERING BRANCH**  
 450 LAUREL STREET, SUITE 1200  
 BATON ROUGE, LOUISIANA 70804

DRAWN BY: LKL      DESIGNED BY: NJR

GIWW TO CLOVELLY HYDRAULIC RESTORATION  
 2010 MAINTENANCE PROJECT

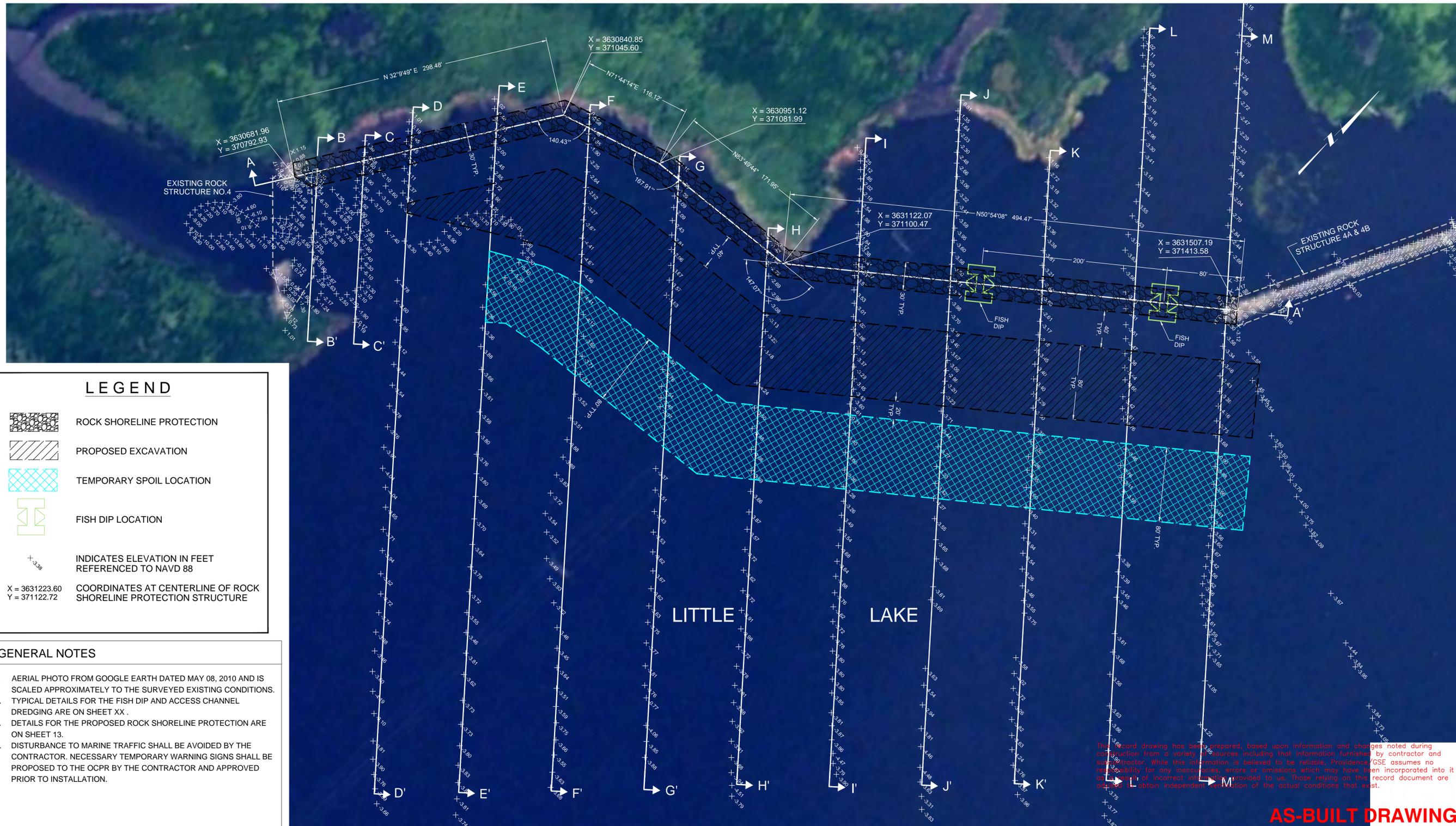
STATE PROJECT NUMBER: BA-02  
 FEDERAL PROJECT NUMBER: BA-02

APPROVED BY: JPS

#####

SITE 14A -  
 CROSS SECTIONS

DATE: MARCH 2011  
 SHEET 10 OF 36



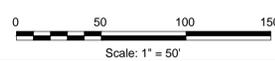
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**AS-BUILT DRAWING**

### LEGEND

-  ROCK SHORELINE PROTECTION
-  PROPOSED EXCAVATION
-  TEMPORARY SPOIL LOCATION
-  FISH DIP LOCATION
-  INDICATES ELEVATION IN FEET REFERENCED TO NAVD 88
-  COORDINATES AT CENTERLINE OF ROCK SHORELINE PROTECTION STRUCTURE

- ### GENERAL NOTES
- AERIAL PHOTO FROM GOOGLE EARTH DATED MAY 08, 2010 AND IS SCALED APPROXIMATELY TO THE SURVEYED EXISTING CONDITIONS.
  - TYPICAL DETAILS FOR THE FISH DIP AND ACCESS CHANNEL DREDGING ARE ON SHEET XX .
  - DETAILS FOR THE PROPOSED ROCK SHORELINE PROTECTION ARE ON SHEET 13.
  - DISTURBANCE TO MARINE TRAFFIC SHALL BE AVOIDED BY THE CONTRACTOR. NECESSARY TEMPORARY WARNING SIGNS SHALL BE PROPOSED TO THE OCPB BY THE CONTRACTOR AND APPROVED PRIOR TO INSTALLATION.



REV.	DATE	DESCRIPTION	BY



OFFICE OF COASTAL PROTECTION & RESTORATION  
**ENGINEERING BRANCH**  
 450 LAUREL STREET  
 BATON ROUGE, LOUISIANA 70801

DRAWN BY: PG      DESIGNED BY: J Birmingham

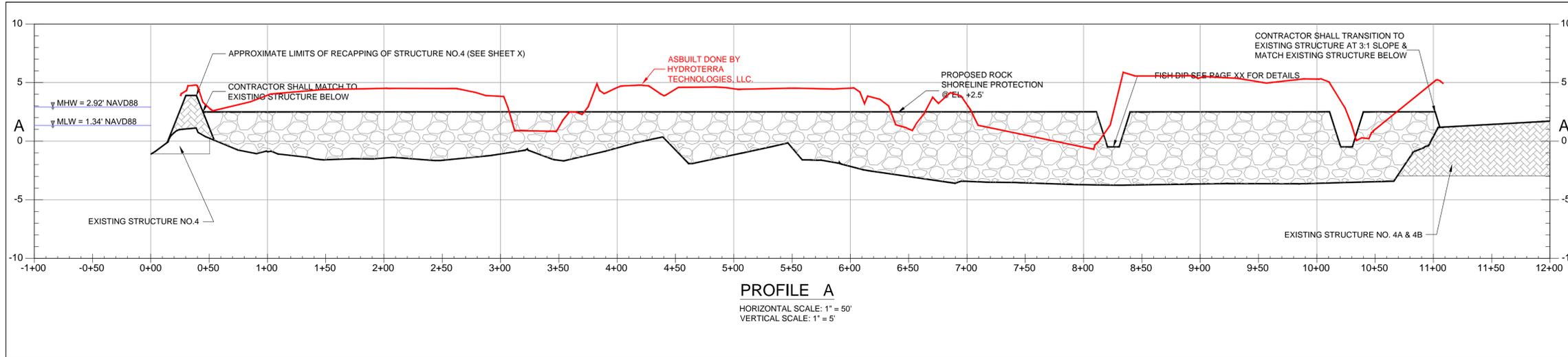
GIWW TO CLOVELLY  
 HYDROLOGIC RESTORATION PROJECT

STATE PROJECT NUMBER: BA-02  
 FEDERAL PROJECT NUMBER: BA-02

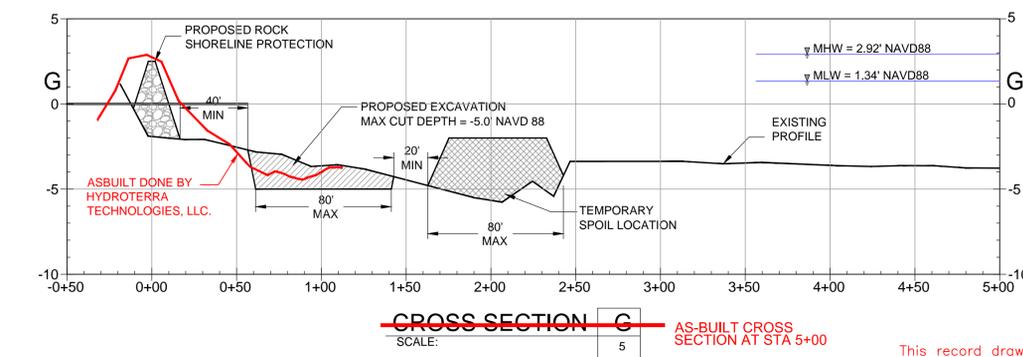
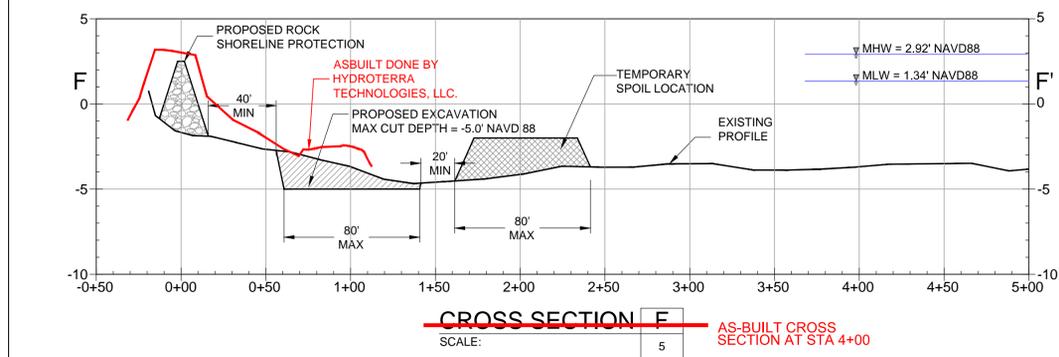
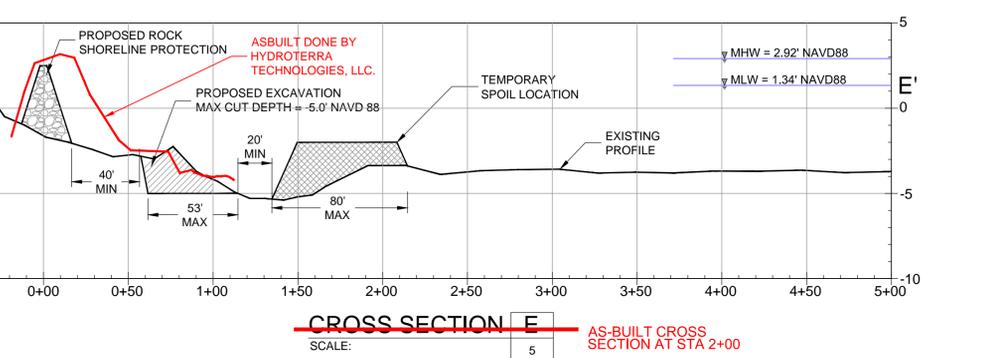
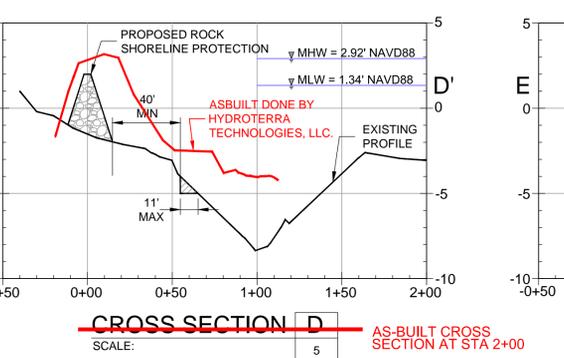
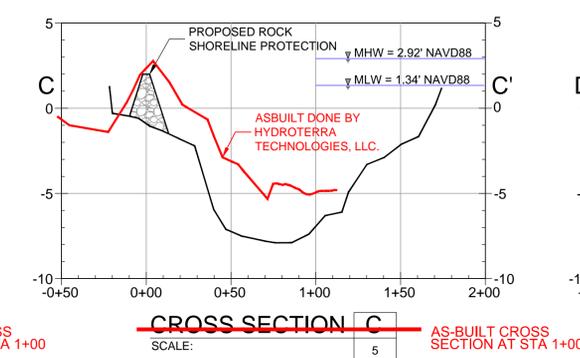
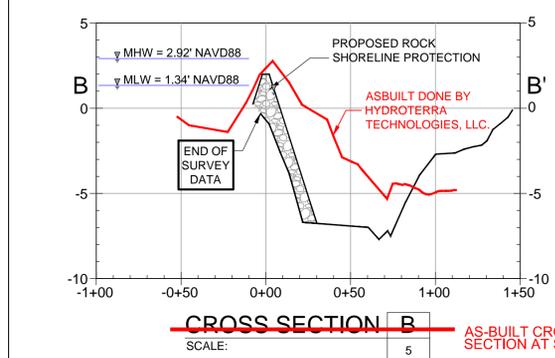
APPROVED BY: C. Truitt

SITE 4 TO 4A/4B  
 PLAN

DATE: 2011-01-14  
 SHEET 11 OF TOT\_SH



- GENERAL SHEET NOTES**
1. TYPICAL DETAILS FOR THE FISH DIP AND ACCESS CHANNEL DREDGING ARE ON SHEET XX.
  2. DETAILS FOR THE NEW ROCK SHORELINE PROTECTION ARE ON SHEET 13.
  3. EXISTING GRADE ELEVATIONS ARE BASED ON 2008 SURVEY DATA UNLESS SHOWN OTHERWISE.



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**AS-BUILT DRAWING**

REV.	DATE	DESCRIPTION	BY



OFFICE OF COASTAL PROTECTION & RESTORATION  
ENGINEERING BRANCH  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

DRAWN BY: PG      DESIGNED BY: J Birmingham

GIWW TO CLOVELLY  
HYDROLOGIC RESTORATION PROJECT

STATE PROJECT NUMBER: BA-02  
FEDERAL PROJECT NUMBER: BA-02

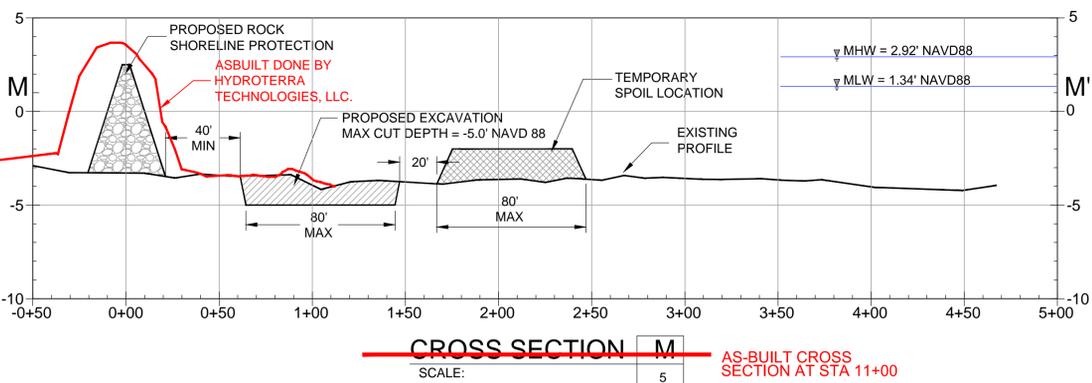
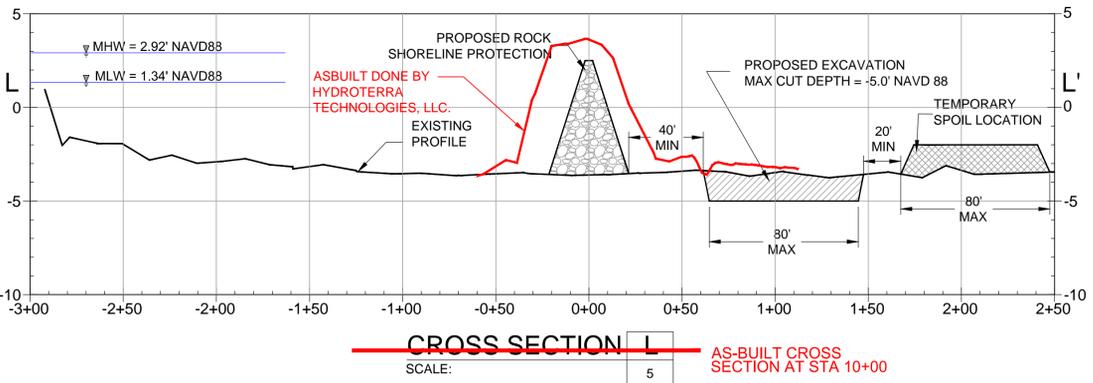
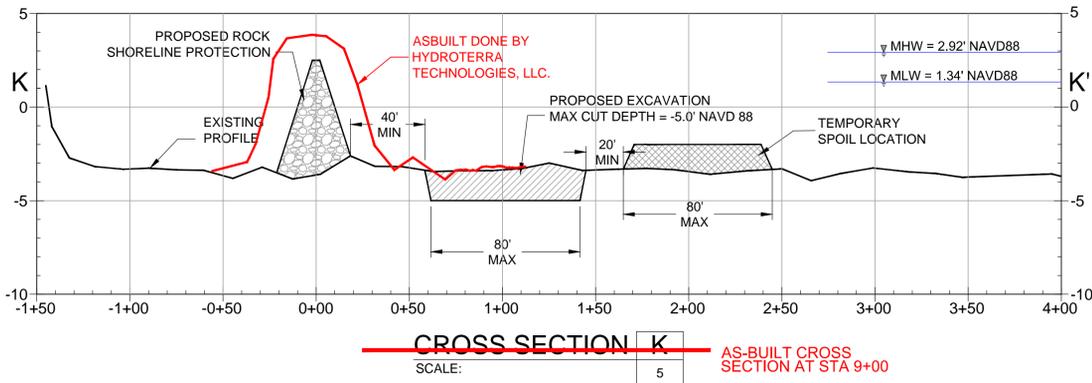
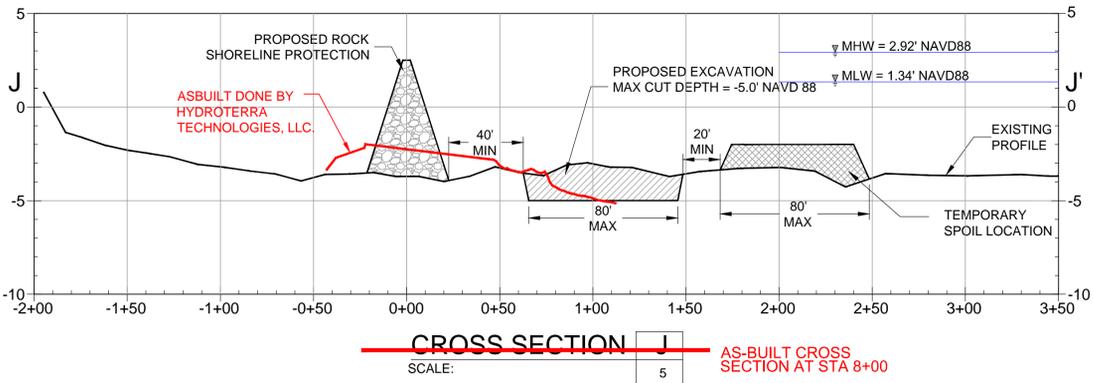
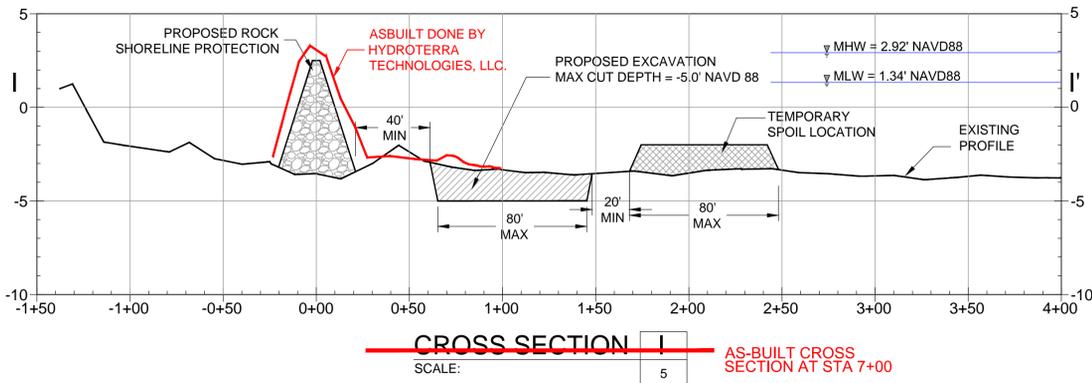
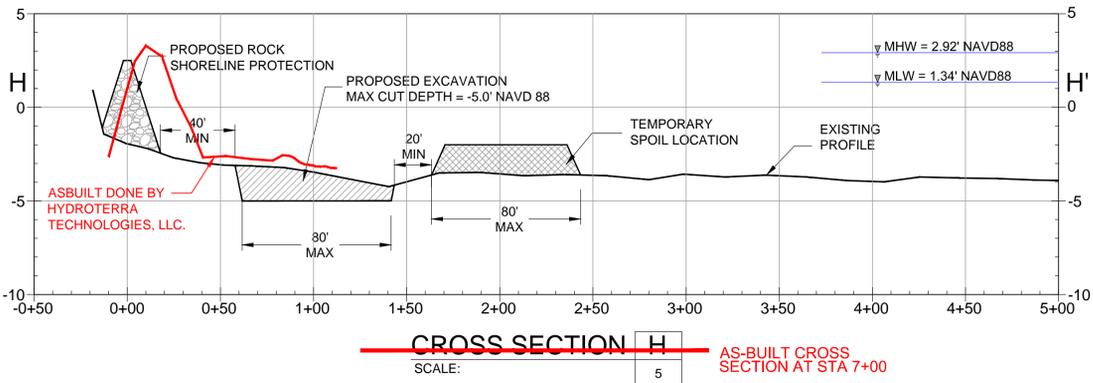
APPROVED BY: C. Truitt

Site 4 to 4A/4B  
PROFILE &  
CROSS SECTIONS

DATE: 2011-01-14  
SHEET 12 OF TOT\_SH

**GENERAL SHEET NOTES**

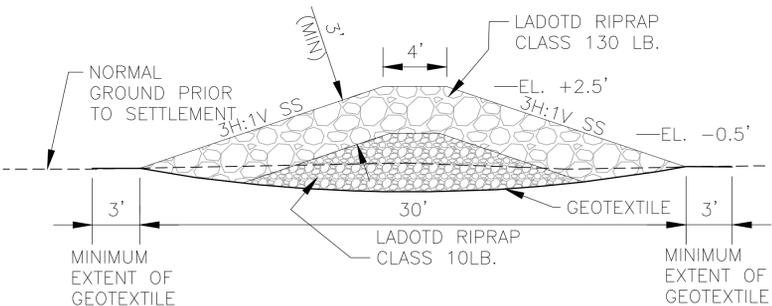
- EXISTING GRADE ELEVATIONS ARE BASED ON 2008 SURVEY DATA UNLESS SHOWN OTHERWISE.



Rock Shoreline Protection Fill Volume Table			
Station	Area	Volume	Cumulative Volume
0+22.61	5.49	0.00	0.00 (CuYds)
1+00.00	73.49	113.19	113.19 (CuYds)
2+00.00	80.77	285.66	398.85 (CuYds)
3+00.00	66.15	272.08	670.93 (CuYds)
4+00.00	78.74	266.83	937.75 (CuYds)
5+00.00	89.90	312.14	1249.89 (CuYds)
6+00.00	93.13	338.93	1588.82 (CuYds)
7+00.00	132.20	418.49	2007.31 (CuYds)
8+00.00	156.15	533.99	2541.30 (CuYds)
8+08.50	226.41	60.18	2601.48 (CuYds)
8+20.50	189.71	92.47	2693.95 (CuYds)
8+30.50	189.30	70.19	2764.14 (CuYds)
8+42.50	226.43	92.38	2856.53 (CuYds)
9+00.00	149.75	400.60	3257.13 (CuYds)
10+00.00	140.90	538.24	3795.36 (CuYds)
10+08.49	220.36	56.82	3852.18 (CuYds)
10+20.49	186.43	90.40	3942.58 (CuYds)
10+30.50	182.41	68.36	4010.93 (CuYds)
10+42.49	208.70	86.81	4097.74 (CuYds)
11+00.00	53.34	279.09	4376.83 (CuYds)
11+02.16	45.36	3.95	4380.78 (CuYds)
TONNAGE = (1.5 X 4380.78)		2,869.785 TONS	

Structures 4A & 4B Recapping Fill Volume Table			
Station	Area	Volume	Cumulative Volume
11+02.16	93.12	0.00	0.00 (CuYds)
12+00.00	106.83	364.92	364.92 (CuYds)
13+00.00	116.41	413.41	778.33 (CuYds)
14+00.00	102.13	404.71	1183.04 (CuYds)
15+00.00	91.58	358.73	1541.76 (CuYds)
16+00.00	88.39	333.29	1875.05 (CuYds)
16+08.72	147.73	38.14	1913.19 (CuYds)
TONNAGE = (1.5 X 1913.19)		2,869.785 TONS	



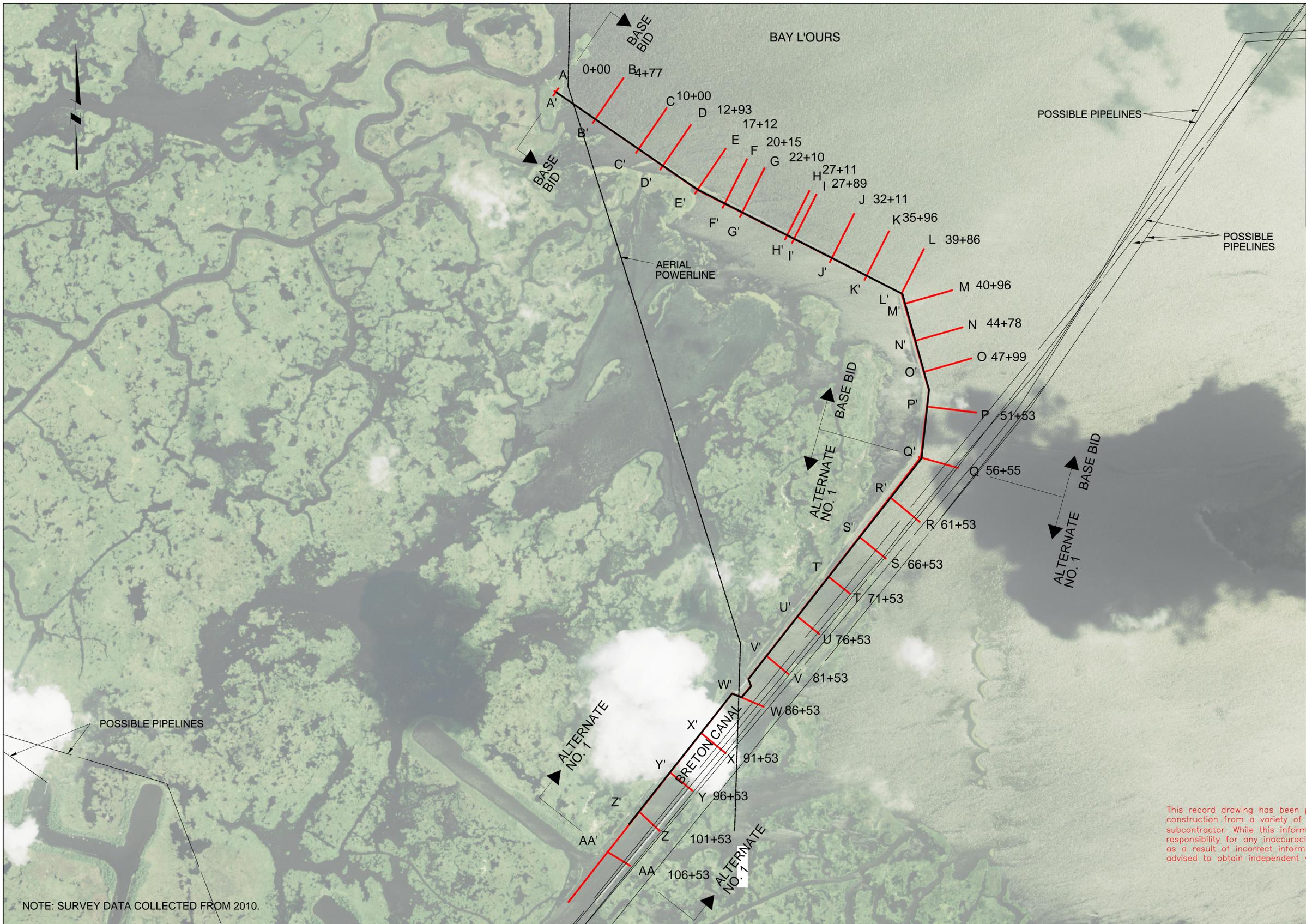
**ROCK SHORELINE PROTECTION - TYPICAL SECTION**

N.T.S.

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**AS-BUILT DRAWING**

				OFFICE OF COASTAL PROTECTION & RESTORATION <b>ENGINEERING BRANCH</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801		GIWW TO CLOVELLY HYDROLOGIC RESTORATION PROJECT		Site 4 to 4A/4B CROSS SECTIONS	
						STATE PROJECT NUMBER: BA-02		FEDERAL PROJECT NUMBER: BA-02	
				DRAWN BY: PG		DESIGNED BY: J Birmingham		APPROVED BY: C. Truitt	
REV.	DATE	DESCRIPTION	BY					SHEET 13 OF TOT_SH	



- GENERAL SHEET NOTES**
1. DISTURBANCE TO MARINE TRAFFIC NEEDS TO BE AVOIDED BY THE CONTRACTOR. NECESSARY WARNING SIGNS/TEMPORARY NAVIGATIONAL AIDS SHALL BE INSTALLED IN ACCORDANCE WITH USCG REGULATION. SEQUENCE OF CONSTRUCTION AND PLAN FOR MAINTAINING MARINE TRAFFIC THROUGH THE STRUCTURE SHALL BE SUBMITTED TO OCPD FOR APPROVAL.
  2. SEE NOTE 4 AND 5, SHEET 2.
  3. BASE BID ACCOUNTS FOR WORK ALONG LAKE RIM FROM STA 0+00 TO STA 56+55.
  4. ALTERNATE NO.1 ACCOUNTS FOR WORK ALONG BRETON CANAL FROM STA 56+55 TO STA 106+53.

This record drawing has been prepared, based upon information and changes noted during construction from a variety of sources including that information furnished by contractor and subcontractor. While this information is believed to be reliable, Providence/CSE assumes no responsibility for any inaccuracies, errors or omissions which may have been incorporated into it as a result of incorrect information provided to us. Those relying on this record document are advised to obtain independent verification of the actual conditions that exist.

**AS-BUILT DRAWING**

NOTE: SURVEY DATA COLLECTED FROM 2010.

**PLAN VIEW**  
Scale = 1" = 1,000'

REV.	DATE	DESCRIPTION	BY



OFFICE OF COASTAL PROTECTION & RESTORATION  
**ENGINEERING BRANCH**  
450 LAUREL STREET, SUITE 1200  
BATON ROUGE, LOUISIANA 70804

DRAWN BY: LKL      DESIGNED BY: NJR

GIWW TO CLOVELLY HYDRAULIC RESTORATION  
2010 MAINTENANCE PROJECT

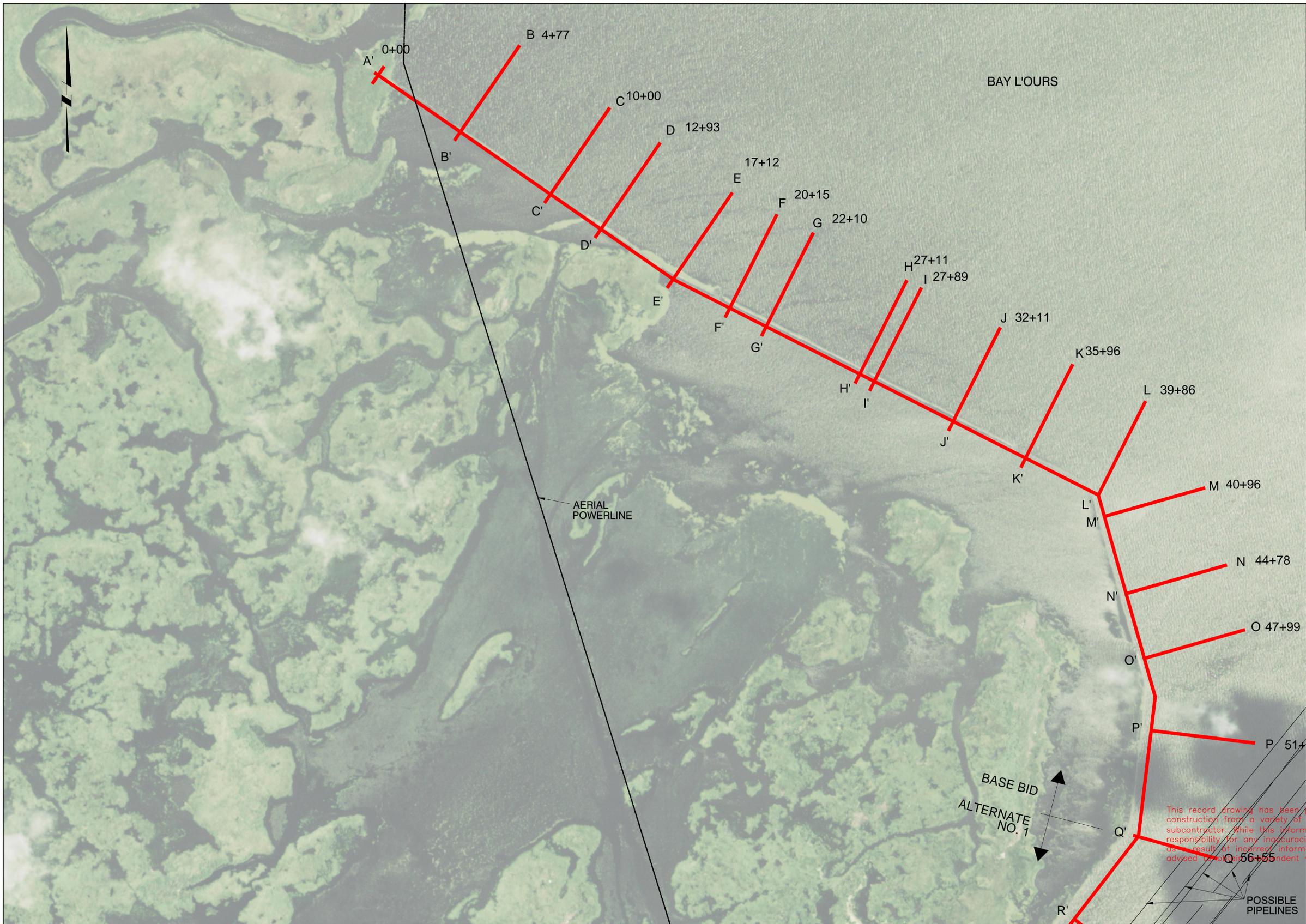
STATE PROJECT NUMBER: BA-02  
FEDERAL PROJECT NUMBER: BA-02

APPROVED BY: JPS

LAKE RIM / BRETON CANAL  
OVERALL PLAN

DATE: MARCH 2011

SHEET 15 OF 36



- GENERAL SHEET NOTES**
1. DISTURBANCE TO MARINE TRAFFIC NEEDS TO BE AVOIDED BY THE CONTRACTOR. NECESSARY WARNING SIGNS/TEMPORARY NAVIGATIONAL AIDS SHALL BE INSTALLED IN ACCORDANCE WITH USCG REGULATION. SEQUENCE OF CONSTRUCTION AND PLAN FOR MAINTAINING MARINE TRAFFIC THROUGH THE STRUCTURE SHALL BE SUBMITTED TO OCPR FOR APPROVAL.
  2. SEE NOTE 4 AND 5, SHEET 2.
  3. BASE BID ACCOUNTS FOR WORK ALONG LAKE RIM FROM STA 0+00 TO STA 56+55.
  4. ALTERNATE NO.1 ACCOUNTS FOR WORK ALONG BRETON CANAL FROM STA 56+55 TO STA 106+53.

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**AS-BUILT DRAWING**

**PLAN VIEW**  
Scale = 1" = 400'

REV.	DATE	DESCRIPTION	BY



OFFICE OF COASTAL PROTECTION & RESTORATION  
**ENGINEERING BRANCH**  
450 LAUREL STREET, SUITE 1200  
BATON ROUGE, LOUISIANA 70804

DRAWN BY: LKL      DESIGNED BY: NJR

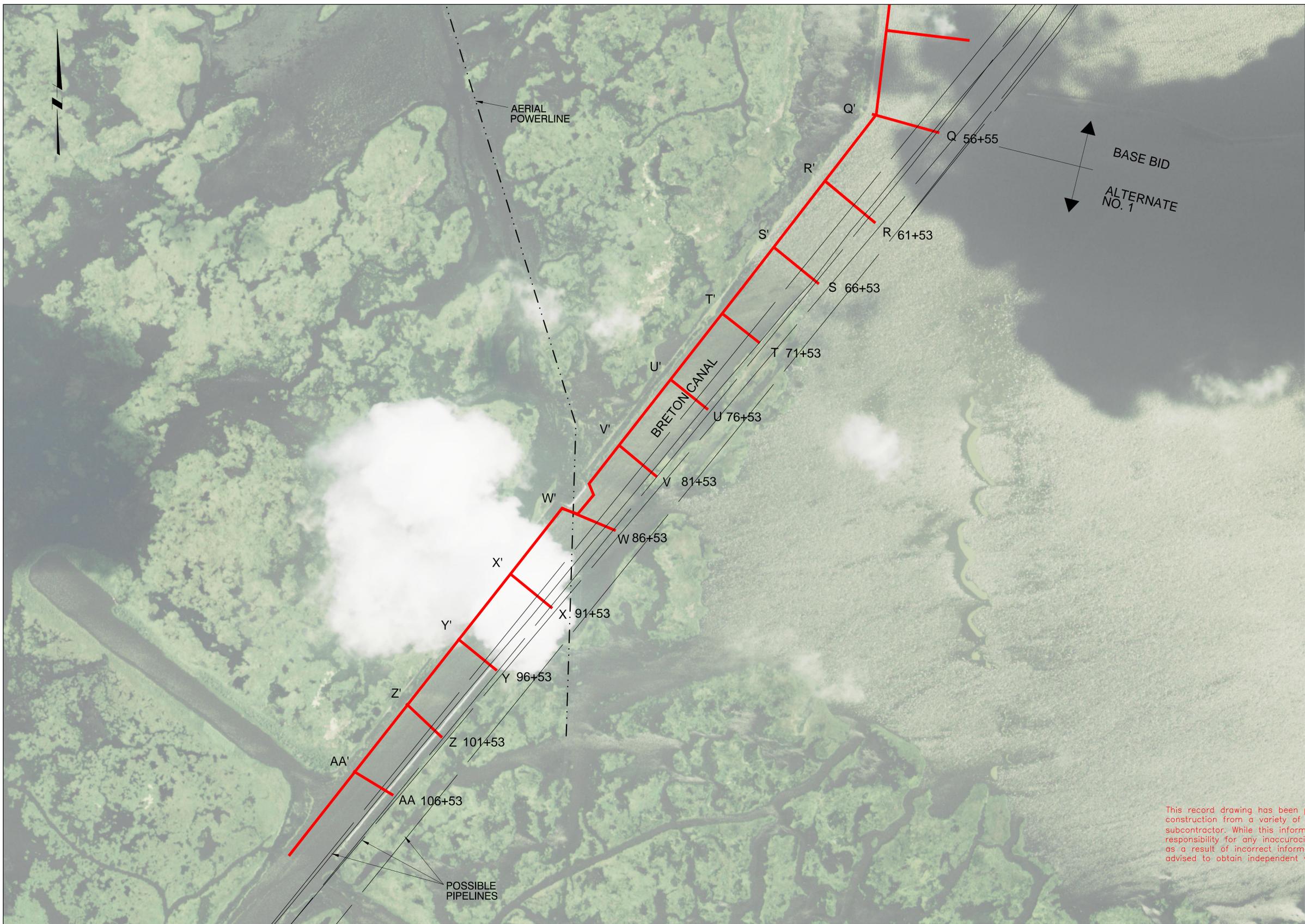
GIWW TO CLOVELLY HYDRAULIC RESTORATION  
2010 MAINTENANCE PROJECT

STATE PROJECT NUMBER: BA-02  
FEDERAL PROJECT NUMBER: BA-02

APPROVED BY: JPS

LAKE RIM - PLAN  
STA 0+00 TO STA 56+55  
BASE BID

DATE: MARCH 2011  
SHEET 16 OF 36



- GENERAL SHEET NOTES**
1. DISTURBANCE TO MARINE TRAFFIC NEEDS TO BE AVOIDED BY THE CONTRACTOR. NECESSARY WARNING SIGNS/TEMPORARY NAVIGATIONAL AIDS SHALL BE INSTALLED IN ACCORDANCE WITH USCG REGULATION. SEQUENCE OF CONSTRUCTION AND PLAN FOR MAINTAINING MARINE TRAFFIC THROUGH THE STRUCTURE SHALL BE SUBMITTED TO OCPD FOR APPROVAL.
  2. SEE NOTE 4 AND 5, SHEET 2.
  3. BASE BID ACCOUNTS FOR WORK ALONG LAKE RIM FROM STA 0+00 TO STA 56+55.
  4. ALTERNATE NO.1 ACCOUNTS FOR WORK ALONG BRETON CANAL FROM STA 56+55 TO STA 106+53.

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**AS-BUILT DRAWING**

**PLAN VIEW**  
Scale = 1" = 500'

REV.	DATE	DESCRIPTION	BY
A	9-2011	ADDENDUM 1-RE-LABELLED CROSS SECTIONS	LKL



OFFICE OF COASTAL PROTECTION & RESTORATION  
**ENGINEERING BRANCH**  
450 LAUREL STREET, SUITE 1200  
BATON ROUGE, LOUISIANA 70804

DRAWN BY: LKL      DESIGNED BY: NJR

GIWW TO CLOVELLY HYDRAULIC RESTORATION  
2010 MAINTENANCE PROJECT

STATE PROJECT NUMBER: BA-02

FEDERAL PROJECT NUMBER: BA-02

APPROVED BY: JPS

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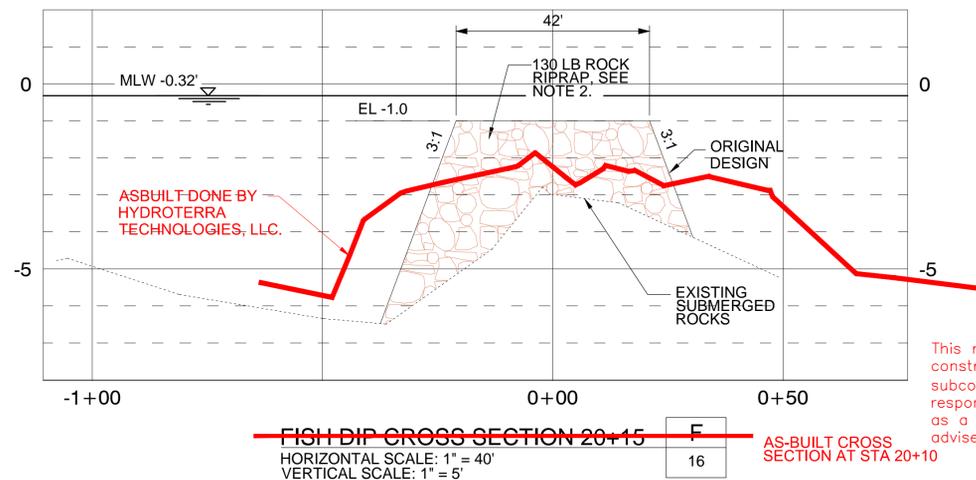
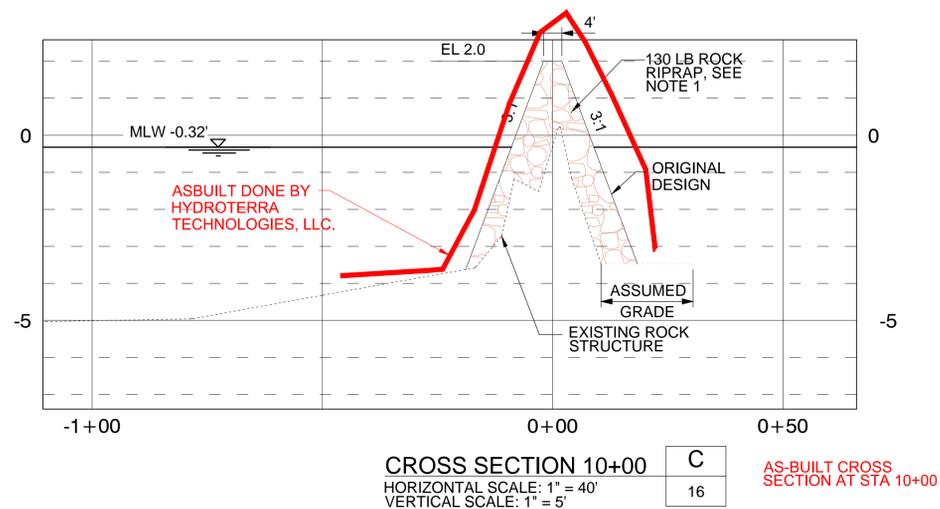
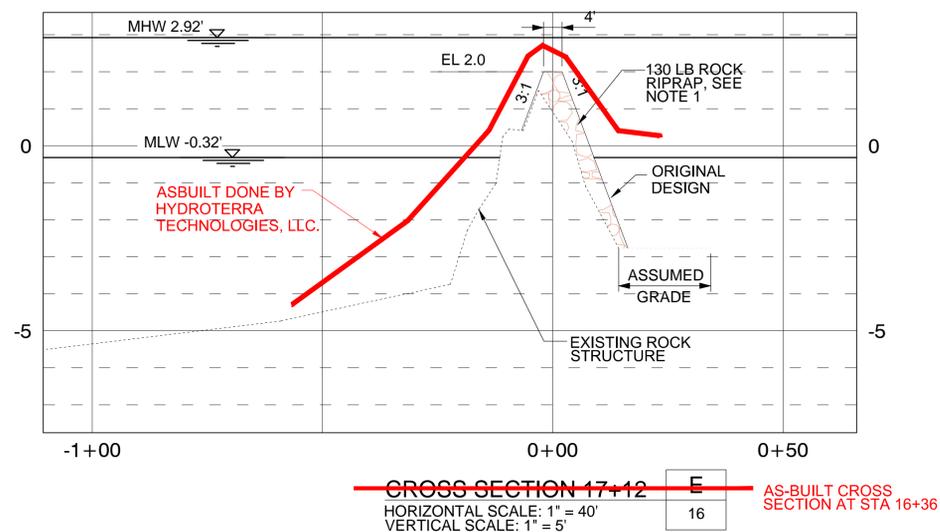
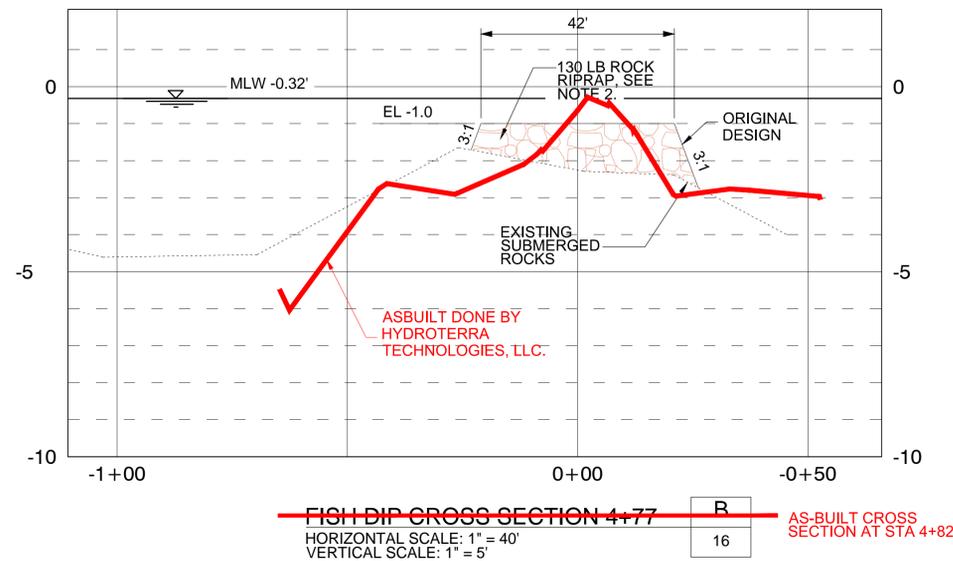
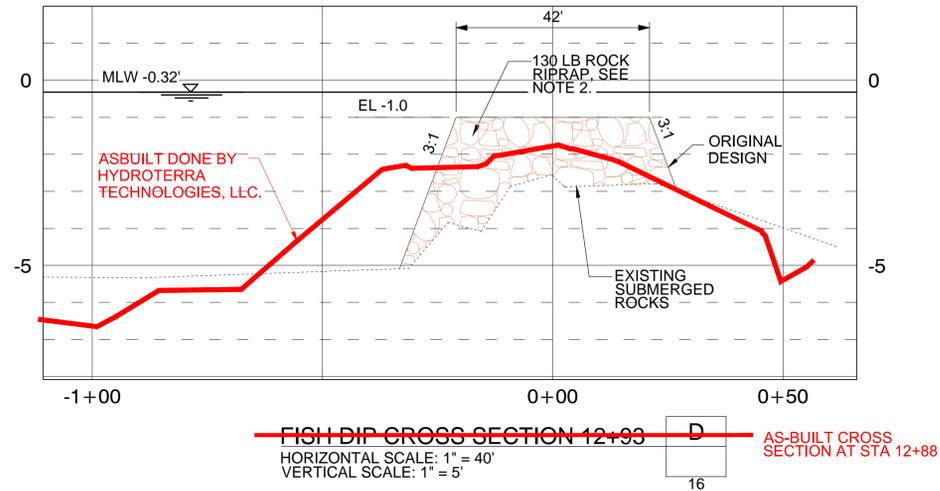
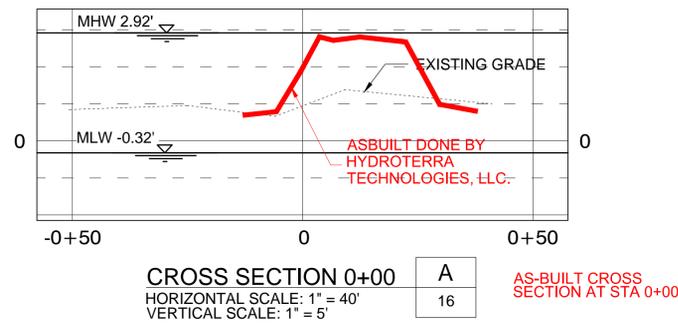
**BRETON CANAL PLAN**  
STA 56+55 TO STA 106+53  
ALTERNATE NO. 1

DATE: MARCH 2011

SHEET 17 OF 36

GENERAL SHEET NOTES

1. RECAP EXISTING STRUCTURE ACCORDING TO THE LINES AND GRADES ON THE DRAWINGS. THE LINES AND GRADES ON THE DRAWINGS REFLECT THE ORIGINAL PERMITTED DESIGN.
2. RECAP EXISTING FISH DIP ACCORDING TO ORIGINAL DESIGN DETAIL. SEE DETAIL A, SHEET 36
3. EXISTING GRADE ELEVATIONS ARE BASED ON 2010 SURVEY DATA UNLESS SHOWN OTHERWISE.



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**AS-BUILT DRAWING**

REV.	DATE	DESCRIPTION	BY



OFFICE OF COASTAL PROTECTION & RESTORATION  
**ENGINEERING BRANCH**

450 LAUREL STREET, SUITE 1200  
 BATON ROUGE, LOUISIANA 70804

DRAWN BY: LKL

DESIGNED BY: NJR

GIWW TO CLOVELLY HYDRAULIC RESTORATION  
 2010 MAINTENANCE PROJECT

STATE PROJECT NUMBER: BA-02

FEDERAL PROJECT NUMBER: BA-02

APPROVED BY: JPS

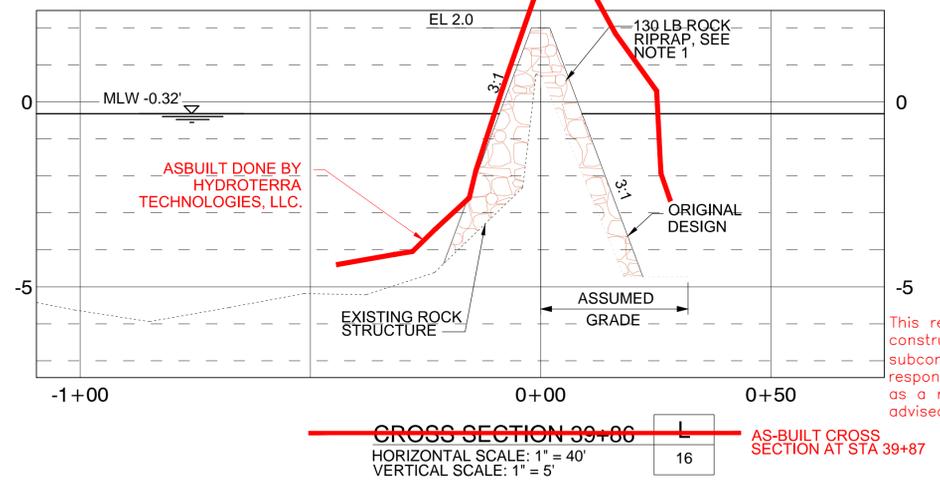
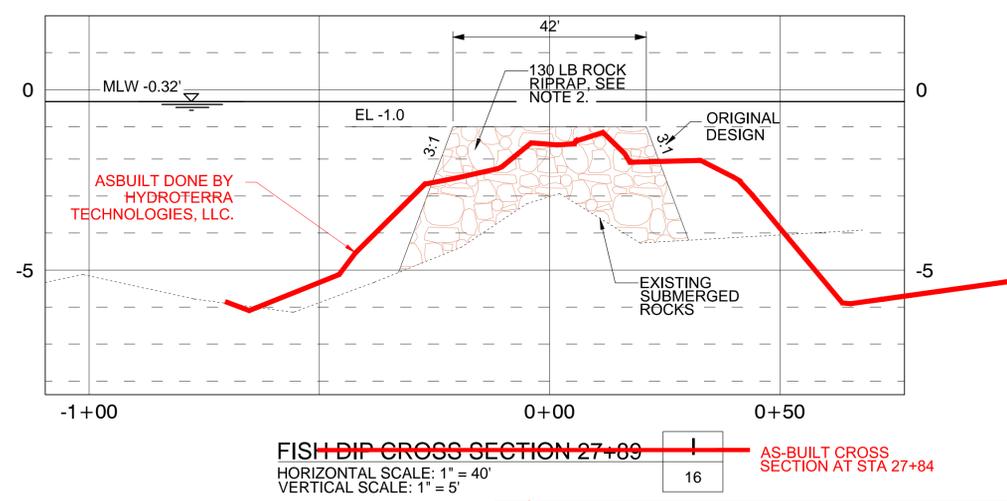
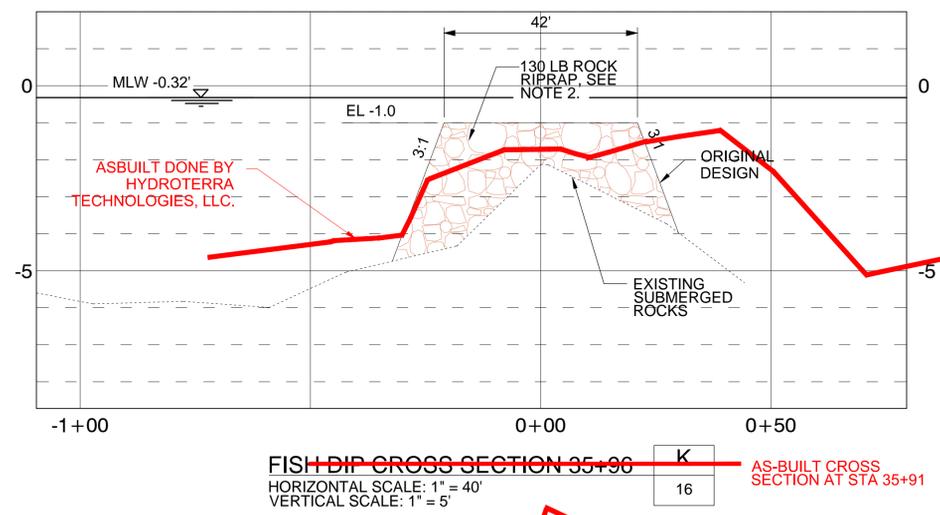
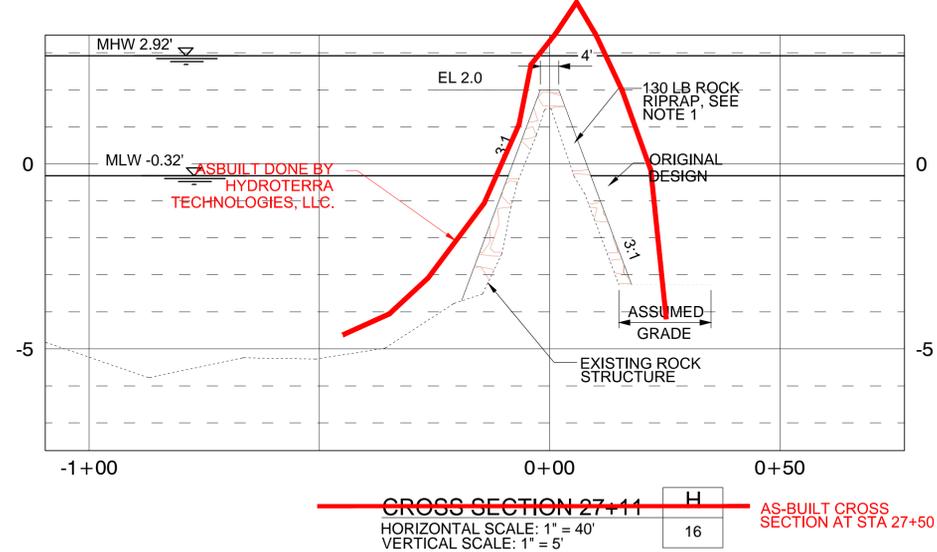
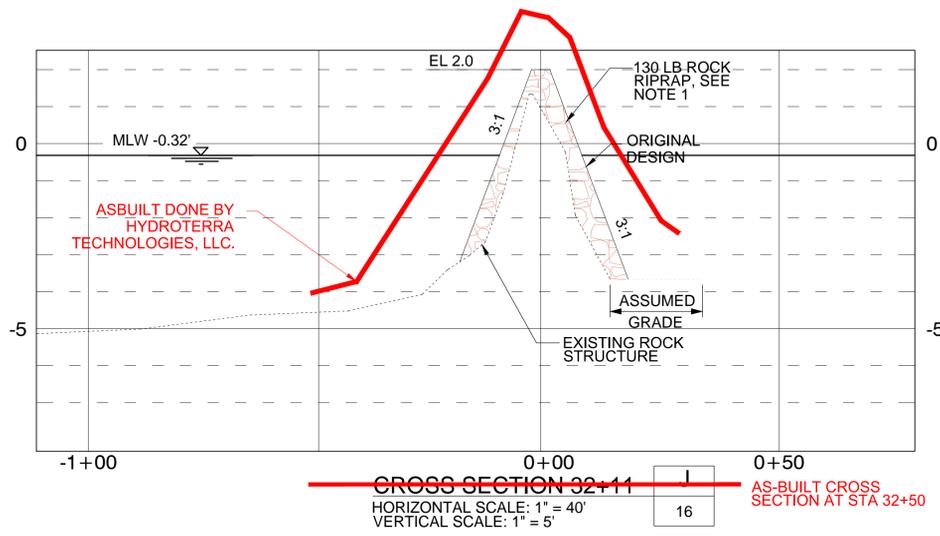
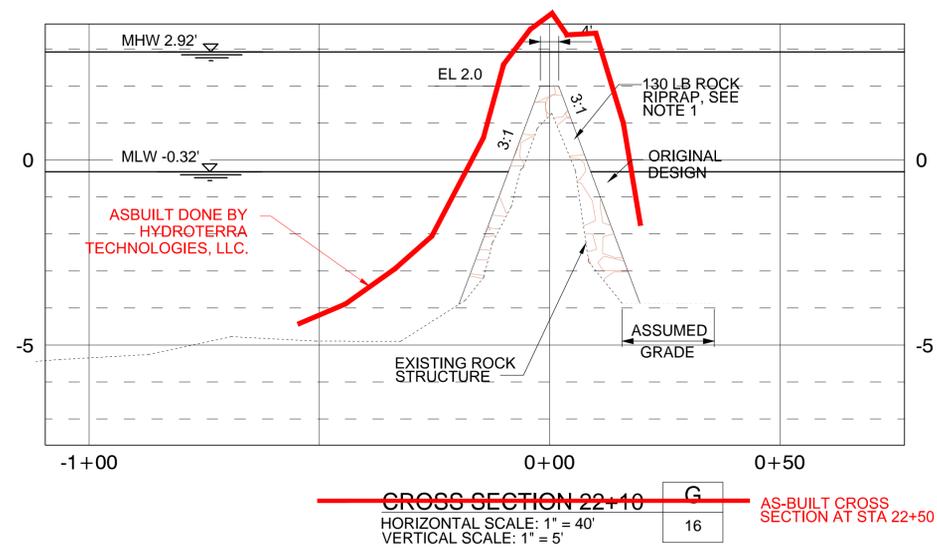
LAKE RIM -  
 CROSS SECTIONS  
 BASE BID

DATE: MARCH 2011

SHEET 18 OF 36

GENERAL SHEET NOTES

1. RECAP EXISTING STRUCTURE ACCORDING TO THE LINES AND GRADES ON THE DRAWINGS. THE LINES AND GRADES ON THE DRAWINGS REFLECT THE ORIGINAL PERMITTED DESIGN.
2. RECAP EXISTING FISH DIP ACCORDING TO ORIGINAL DESIGN DETAIL. SEE DETAIL A, SHEET 36
3. EXISTING GRADE ELEVATIONS ARE BASED ON 2010 SURVEY DATA UNLESS SHOWN OTHERWISE.



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**AS-BUILT DRAWING**

REV.	DATE	DESCRIPTION	BY



OFFICE OF COASTAL PROTECTION & RESTORATION  
**ENGINEERING BRANCH**  
 450 LAUREL STREET, SUITE 1200  
 BATON ROUGE, LOUISIANA 70804

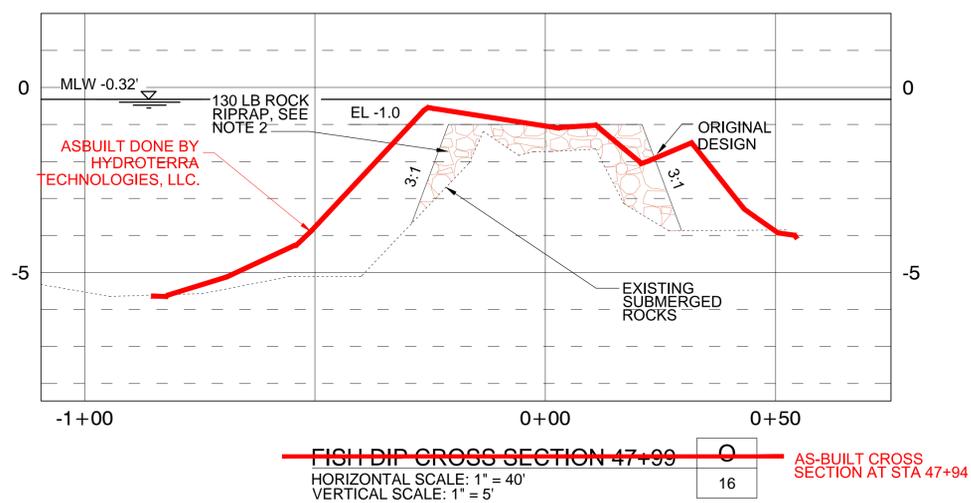
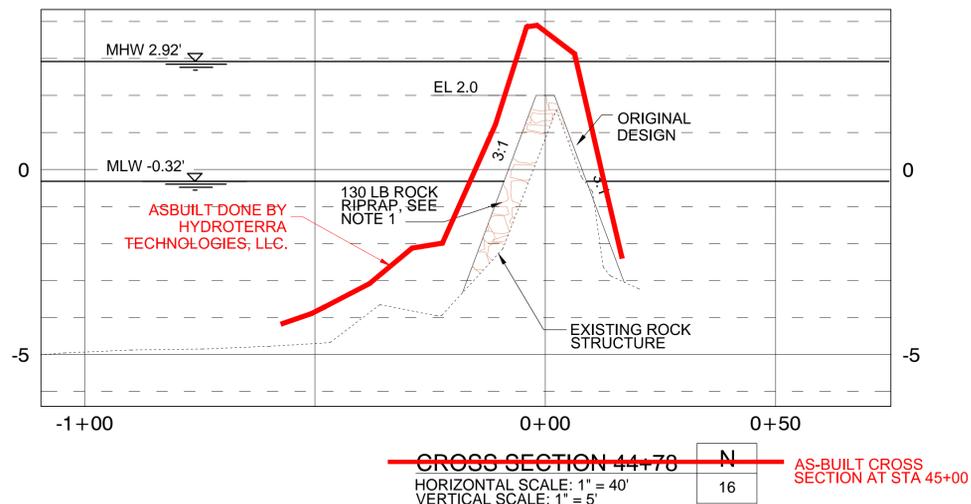
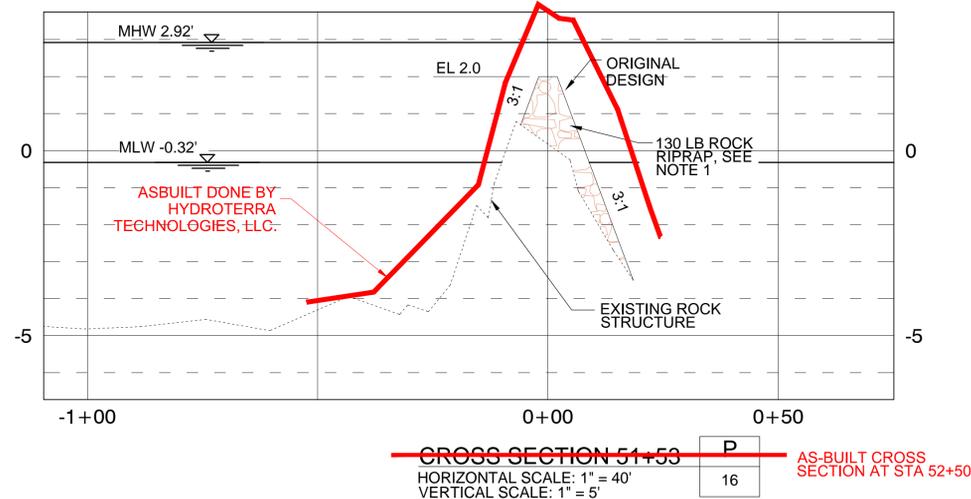
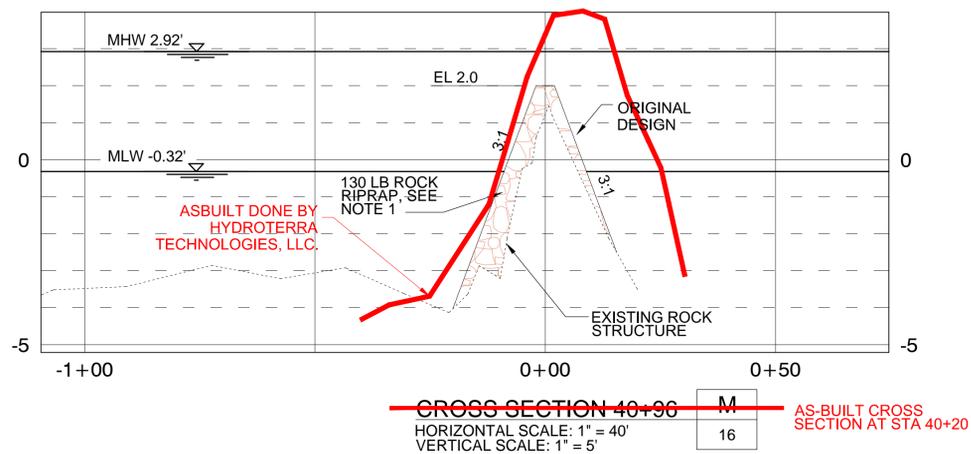
GIWW TO CLOVELLY HYDRAULIC RESTORATION  
 2010 MAINTENANCE PROJECT  
 STATE PROJECT NUMBER: BA-02  
 FEDERAL PROJECT NUMBER: BA-02  
 APPROVED BY: JPS

LAKE RIM -  
 CROSS SECTIONS  
 BASE BID  
 DATE: MARCH 2011  
 SHEET 19 OF 36

DRAWN BY: LKL  
 DESIGNED BY: NJR

GENERAL SHEET NOTES

1. RECAP EXISTING STRUCTURE ACCORDING TO THE LINES AND GRADES ON THE DRAWINGS. THE LINES AND GRADES ON THE DRAWINGS REFLECT THE ORIGINAL PERMITTED DESIGN.
2. RECAP EXISTING FISH DIP ACCORDING TO ORIGINAL DESIGN DETAIL. SEE DETAIL A, SHEET 36
3. EXISTING GRADE ELEVATIONS ARE BASED ON 2010 SURVEY DATA UNLESS SHOWN OTHERWISE.



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**AS-BUILT DRAWING**

REV.	DATE	DESCRIPTION	BY



OFFICE OF COASTAL PROTECTION & RESTORATION  
**ENGINEERING BRANCH**

450 LAUREL STREET, SUITE 1200  
 BATON ROUGE, LOUISIANA 70804

DRAWN BY: LKL

DESIGNED BY: NJR

GIWW TO CLOVELLY HYDRAULIC RESTORATION  
 2010 MAINTENANCE PROJECT

STATE PROJECT NUMBER: BA-02

FEDERAL PROJECT NUMBER: BA-02

APPROVED BY: JPS

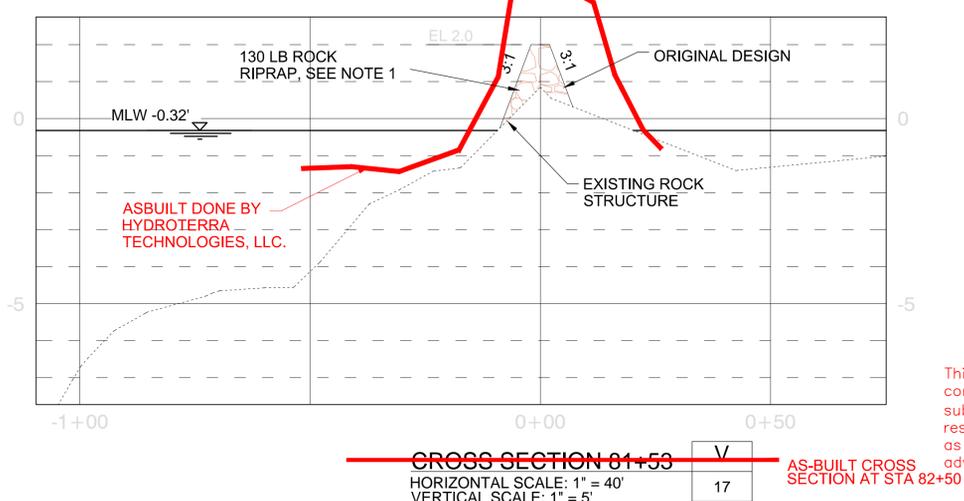
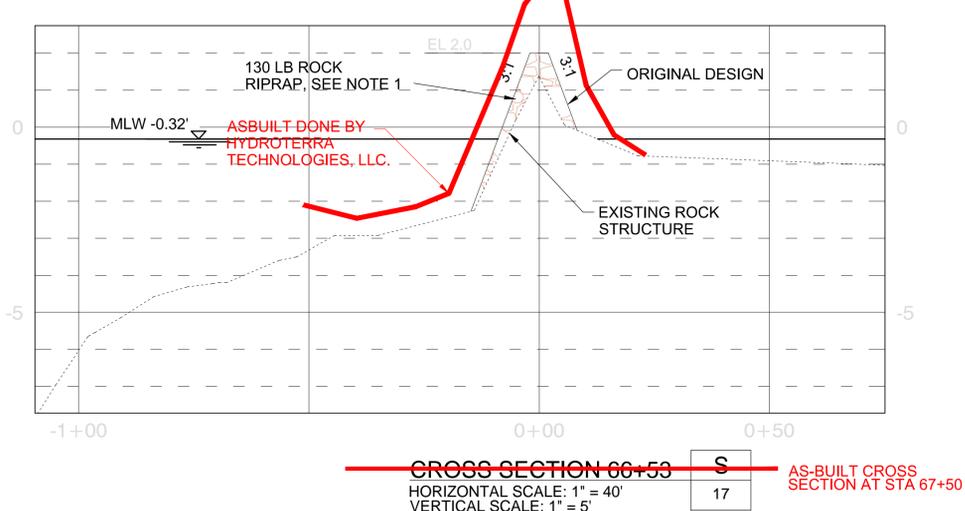
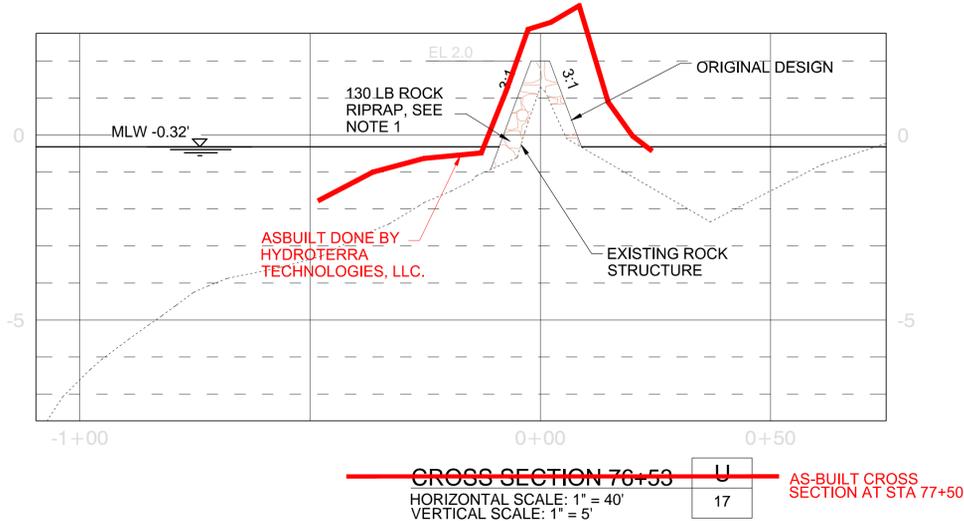
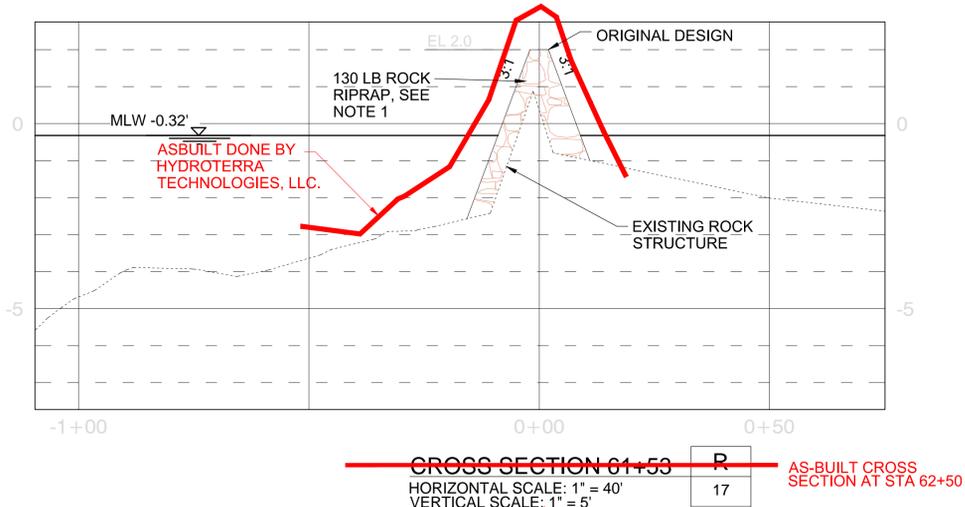
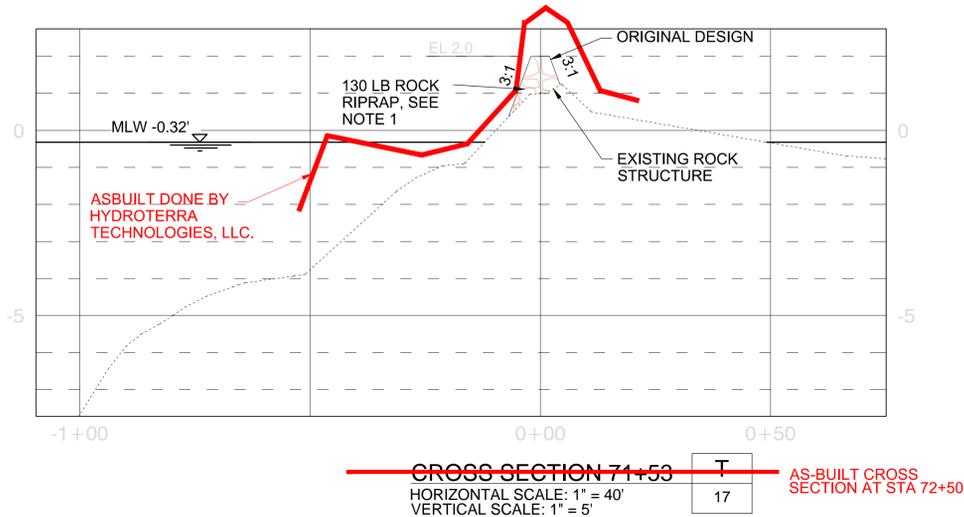
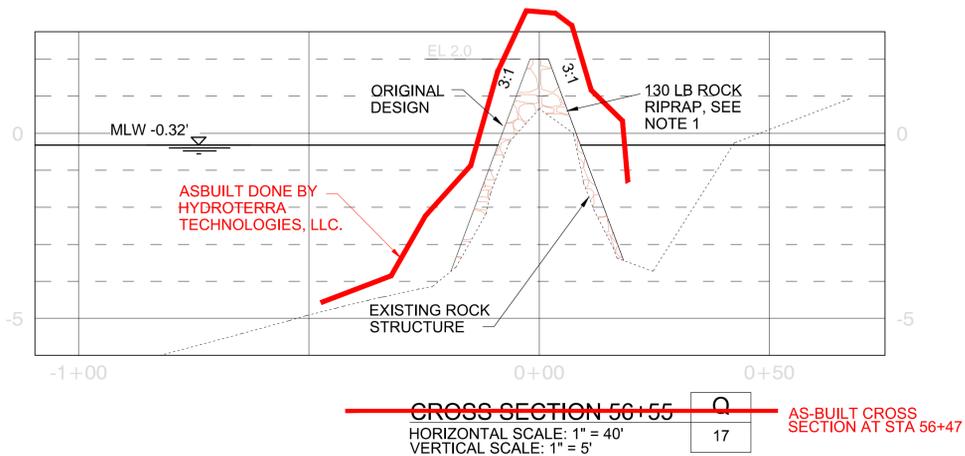
LAKE RIM -  
 CROSS SECTIONS  
 BASE BID

DATE: MARCH 2011

SHEET 20 OF 36

GENERAL SHEET NOTES

1. RECAP EXISTING STRUCTURE ACCORDING TO THE LINES AND GRADES ON THE DRAWINGS. THE LINES AND GRADES ON THE DRAWINGS REFLECT THE ORIGINAL PERMITTED DESIGN.
2. RECAP EXISTING FISH DIP ACCORDING TO ORIGINAL DESIGN DETAIL. SEE DETAIL A, SHEET 36
3. EXISTING GRADE ELEVATIONS ARE BASED ON 2010 SURVEY DATA UNLESS SHOWN OTHERWISE.



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**AS-BUILT DRAWING**

REV.	DATE	DESCRIPTION	BY



OFFICE OF COASTAL PROTECTION & RESTORATION  
**ENGINEERING BRANCH**

450 LAUREL STREET, SUITE 1200  
 BATON ROUGE, LOUISIANA 70804

DRAWN BY: LKL

DESIGNED BY: NJR

GIWW TO CLOVELLY HYDRAULIC RESTORATION  
 2010 MAINTENANCE PROJECT

STATE PROJECT NUMBER: BA-02

FEDERAL PROJECT NUMBER: BA-02

APPROVED BY: JPS

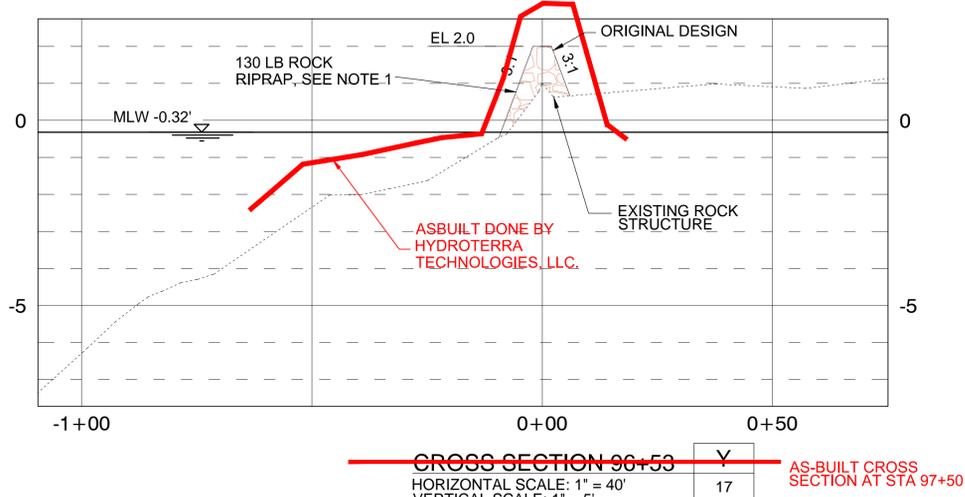
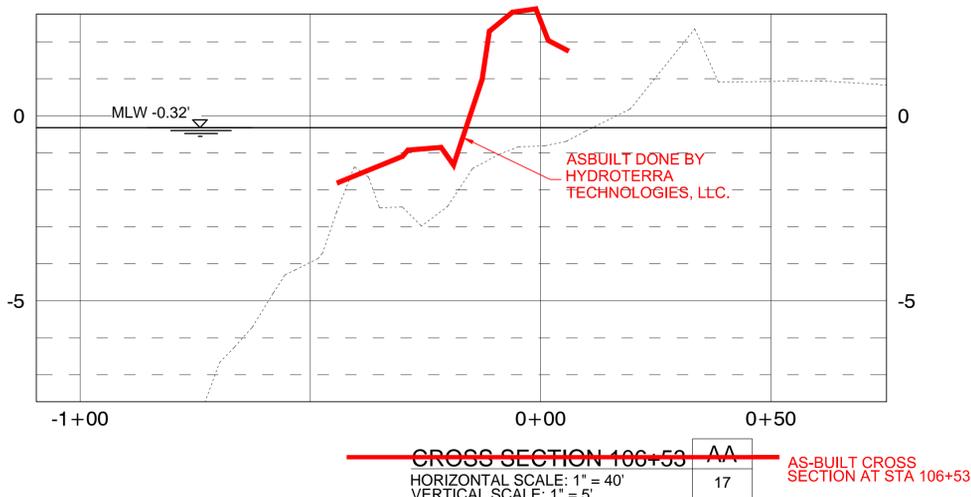
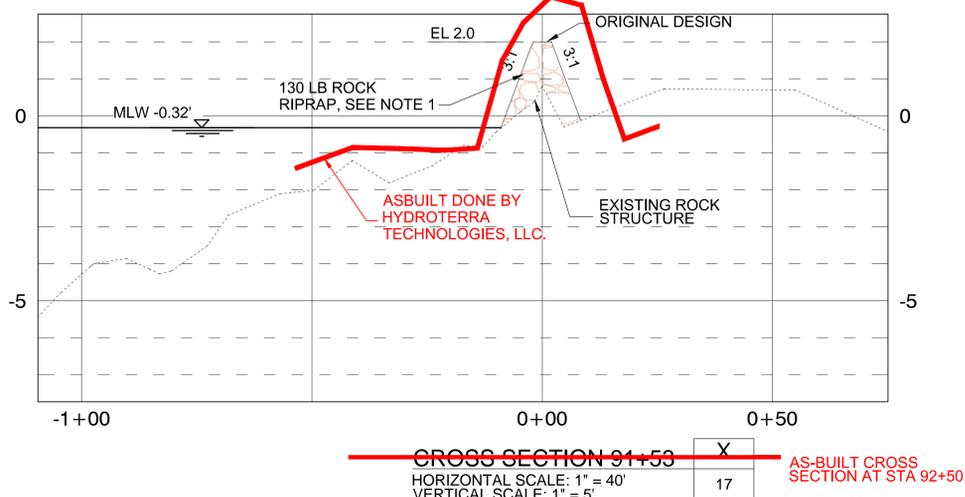
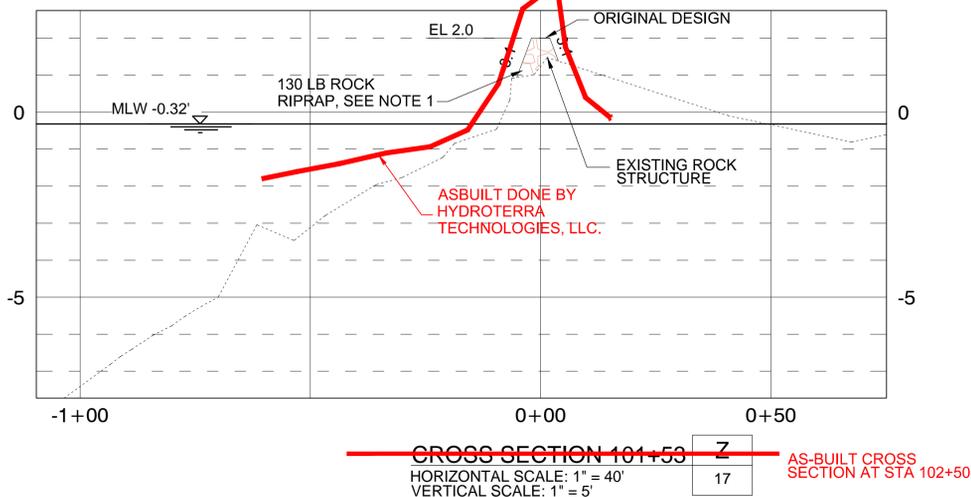
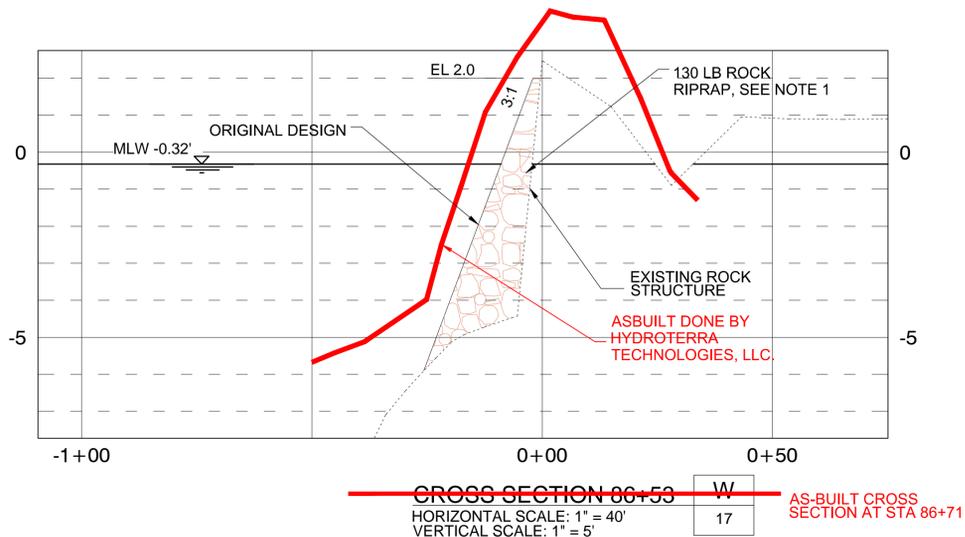
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 BRETON CANAL  
 CROSS SECTIONS  
 ALTERNATE NO. 1

DATE: MARCH 2011

SHEET 21 OF 36

GENERAL SHEET NOTES

1. RECAP EXISTING STRUCTURE ACCORDING TO THE LINES AND GRADES ON THE DRAWINGS. THE LINES AND GRADES ON THE DRAWINGS REFLECT THE ORIGINAL PERMITTED DESIGN.
2. RECAP EXISTING FISH DIP ACCORDING TO ORIGINAL DESIGN DETAIL. SEE DETAIL A, SHEET 36
3. EXISTING GRADE ELEVATIONS ARE BASED ON 2010 SURVEY DATA UNLESS SHOWN OTHERWISE.



AS-BUILT Volume Table				AS-BUILT Volume Table				AS-BUILT Volume Table				AS-BUILT Volume Table			
Station	Area	Volume	Cumulative Volume	Station	Area	Volume	Cumulative Volume	Station	Area	Volume	Cumulative Volume	Station	Area	Volume	Cumulative Volume
0+00.00	26.89	0.00	0.00 (CuYds)	20+32.00	80.80	39.19	2911.16 (CuYds)	47+50.00	26.68	284.74	6970.59 (CuYds)	77+50.00	31.68	256.55	11093.79 (CuYds)
2+50.00	29.92	263.03	263.03 (CuYds)	22+50.00	0.06	326.43	3237.58 (CuYds)	47+77.91	52.10	40.72	7011.31 (CuYds)	80+00.00	28.25	277.45	11371.24 (CuYds)
4+60.06	99.59	503.80	766.83 (CuYds)	25+00.00	57.75	267.67	3505.26 (CuYds)	47+82.00	50.75	7.79	7019.09 (CuYds)	82+50.00	40.05	316.21	11687.45 (CuYds)
4+72.03	57.75	34.87	801.70 (CuYds)	27+50.00	44.45	473.16	3978.41 (CuYds)	47+94.00	43.38	20.92	7040.01 (CuYds)	84+45.22	33.40	265.57	11953.02 (CuYds)
4+82.00	64.70	22.60	824.30 (CuYds)	27+72.00	42.17	35.30	4013.71 (CuYds)	48+04.00	12.09	10.27	7050.28 (CuYds)	85+18.08	48.36	102.96	12055.98 (CuYds)
4+94.00	49.25	25.33	849.63 (CuYds)	27+84.00	70.17	24.96	4038.67 (CuYds)	48+16.00	90.76	22.85	7073.14 (CuYds)	86+70.59	30.25	219.00	12274.97 (CuYds)
5+00.00	20.48	7.75	857.38 (CuYds)	27+94.00	94.52	30.47	4069.14 (CuYds)	49+75.54	23.09	336.34	7409.48 (CuYds)	87+71.48	54.23	148.47	12423.44 (CuYds)
7+50.00	21.69	195.24	1052.61 (CuYds)	28+05.90	106.20	44.27	4113.41 (CuYds)	50+00.00	36.17	27.20	7436.68 (CuYds)	90+00.00	27.75	348.07	12771.51 (CuYds)
10+00.00	38.09	276.78	1329.39 (CuYds)	30+00.00	16.10	439.59	4553.00 (CuYds)	52+50.00	56.46	428.83	7865.51 (CuYds)	92+50.00	32.15	277.32	13048.84 (CuYds)
12+50.00	31.81	323.61	1653.00 (CuYds)	32+50.00	57.46	340.54	4893.54 (CuYds)	55+00.00	30.48	402.47	8267.97 (CuYds)	95+00.00	19.64	239.78	13288.62 (CuYds)
12+76.00	55.98	42.27	1695.27 (CuYds)	35+00.00	0.00	266.01	5159.55 (CuYds)	56+47.39	52.87	227.48	8495.46 (CuYds)	97+50.00	23.88	201.47	13490.09 (CuYds)
12+88.00	54.51	24.55	1719.82 (CuYds)	35+79.00	47.23	69.09	5228.64 (CuYds)	57+50.00	30.42	157.82	8653.28 (CuYds)	100+00.00	23.26	218.23	13708.32 (CuYds)
12+98.00	106.00	29.72	1749.54 (CuYds)	35+91.00	49.09	21.40	5250.05 (CuYds)	60+00.00	37.35	313.76	8967.04 (CuYds)	102+50.00	14.46	174.65	13882.97 (CuYds)
13+10.00	88.16	43.15	1792.69 (CuYds)	36+01.00	60.93	20.37	5270.42 (CuYds)	62+50.00	36.26	340.77	9307.82 (CuYds)	105+00.00	22.25	169.99	14052.96 (CuYds)
15+00.00	23.68	393.52	2186.21 (CuYds)	36+13.00	80.53	31.43	5301.85 (CuYds)	64+99.90	39.24	349.39	9657.21 (CuYds)	106+52.50	20.98	122.11	14175.07 (CuYds)
16+36.27	12.51	91.34	2277.54 (CuYds)	37+50.00	44.92	318.27	5620.12 (CuYds)	67+50.00	25.20	298.47	9955.68 (CuYds)				
17+50.00	21.92	72.60	2350.15 (CuYds)	39+86.64	30.33	329.76	5949.88 (CuYds)	68+32.69	38.56	97.64	10053.33 (CuYds)				
19+98.00	78.98	463.38	2813.53 (CuYds)	40+19.98	52.00	46.43	5996.31 (CuYds)	70+00.00	34.53	226.44	10279.77 (CuYds)				
20+10.00	56.94	30.20	2843.73 (CuYds)	42+50.00	34.51	368.50	6364.81 (CuYds)	72+50.00	31.08	303.71	10583.48 (CuYds)				
20+20.00	95.54	28.24	2871.97 (CuYds)	45+00.00	34.83	321.03	6685.84 (CuYds)	75+00.00	23.74	253.76	10837.24 (CuYds)				

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**AS-BUILT DRAWING**

REV.	DATE	DESCRIPTION	BY



OFFICE OF COASTAL PROTECTION & RESTORATION  
**ENGINEERING BRANCH**

450 LAUREL STREET, SUITE 1200  
 BATON ROUGE, LOUISIANA 70804

DRAWN BY: LKL

DESIGNED BY: NJR

GIWW TO CLOVELLY HYDRAULIC RESTORATION  
 2010 MAINTENANCE PROJECT

STATE PROJECT NUMBER: BA-02

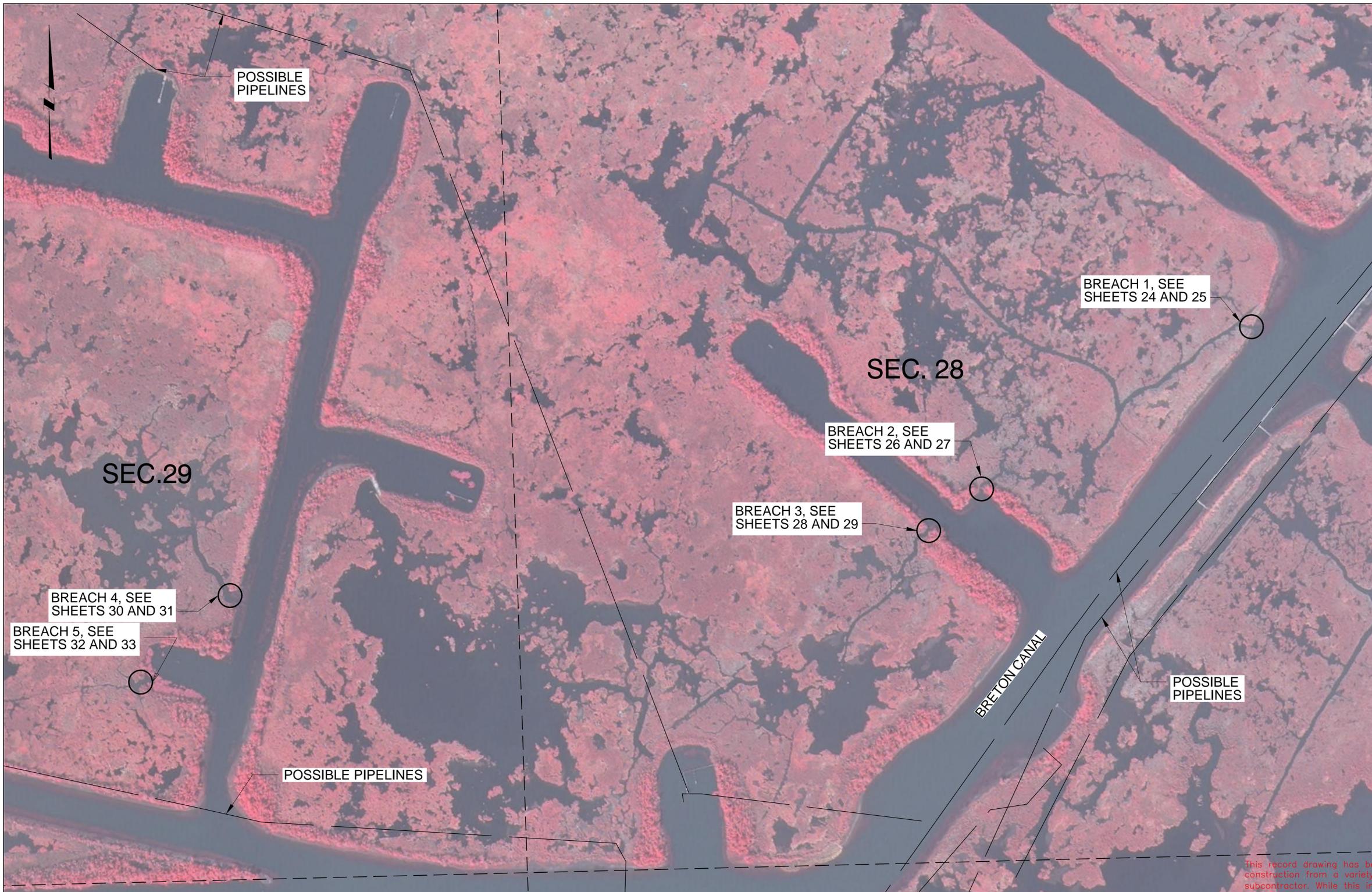
FEDERAL PROJECT NUMBER: BA-02

APPROVED BY: JPS

BRETON CANAL  
 CROSS SECTIONS  
 ALTERNATE NO. 1

DATE: MARCH 2011

SHEET 22 OF 36



- GENERAL SHEET NOTES**
1. NO DREDGING SHALL TAKE PLACE WITHIN 10 FEET OF VEGETATED WATER BOTTOMS, OR 40 FEET FROM EXISTING BANKLINE.
  2. DREDGING SHALL NOT EXTEND PAST APPROXIMATE CENTERLINE OF CANAL.
  3. THE LOCATION OF EXISTING PIPELINES, UTILITIES, STRUCTURES IS APPROXIMATE. SEE NOTE 4 AND 5 ON SHEET 2.
  4. CLEARING AND GRUBBING IN THE AREA OF THE BREACH REPAIRS MAY BE REQUIRED PRIOR TO COMMENCING BREACH REPAIR WORK. THIS WORK IS CONSIDERED INCIDENTAL TO THE BREACH REPAIR WORK.
  5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING PIPELINE OPERATORS 48 HOURS IN ADVANCE OF THE WORK. ALL PIPELINES SHALL BE MARKED WITH BUOYS BY THE CONTRACTOR. THE CONTRACTOR SHALL MAINTAIN BUOYS DURING CONSTRUCTION OR HAVE ADEQUATE NAVIGATIONAL EQUIPMENT ON THE DREDGE TO AVOID DREDGING IN RESTRICTED AREAS. THE CONTRACTOR SHALL NOT ANCHOR OR EXCAVATE WITHIN 50 FEET OF ANY PIPELINE. NOTICE: 48 HOURS BEFORE DREDGING CALL LOUISIANA ONE CALL AT 1-800-272-3020 TO LOCATE ANY OTHER PIPELINES OR UTILITIES.
  6. DISTURBANCE TO MARINE TRAFFIC NEEDS TO BE AVOIDED BY THE CONTRACTOR. NECESSARY WARNING SIGNS/TEMPORARY NAVIGATIONAL AIDS SHALL BE INSTALLED IN ACCORDANCE WITH USCG REGULATION. SEQUENCE OF CONSTRUCTION AND PLAN FOR MAINTAINING MARINE TRAFFIC THROUGH THE STRUCTURE SHALL BE SUBMITTED TO OCPD FOR APPROVAL.
  7. ALL BREACH PLUGS SHALL BE VEGETATED. SEE SPECIFICATIONS.

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**BREACHES OVERALL - PLAN**  
SCALE: 1" = 500'

**AS-BUILT DRAWING**

**LEGEND**

—//— PIPELINE

REV.	DATE	DESCRIPTION	BY



**OFFICE OF COASTAL PROTECTION & RESTORATION  
ENGINEERING BRANCH**

450 LAUREL STREET, SUITE 1200  
BATON ROUGE, LOUISIANA 70804

DRAWN BY: LKL

DESIGNED BY: NJR

GIWW TO CLOVELLY HYDRAULIC RESTORATION  
2010 MAINTENANCE PROJECT

STATE PROJECT NUMBER: BA-02

FEDERAL PROJECT NUMBER: BA-02

APPROVED BY: JPS

#####  
**BREACHES -  
OVERALL PLAN**

DATE: MARCH 2011

SHEET 23 OF 36

**GENERAL SHEET NOTES**

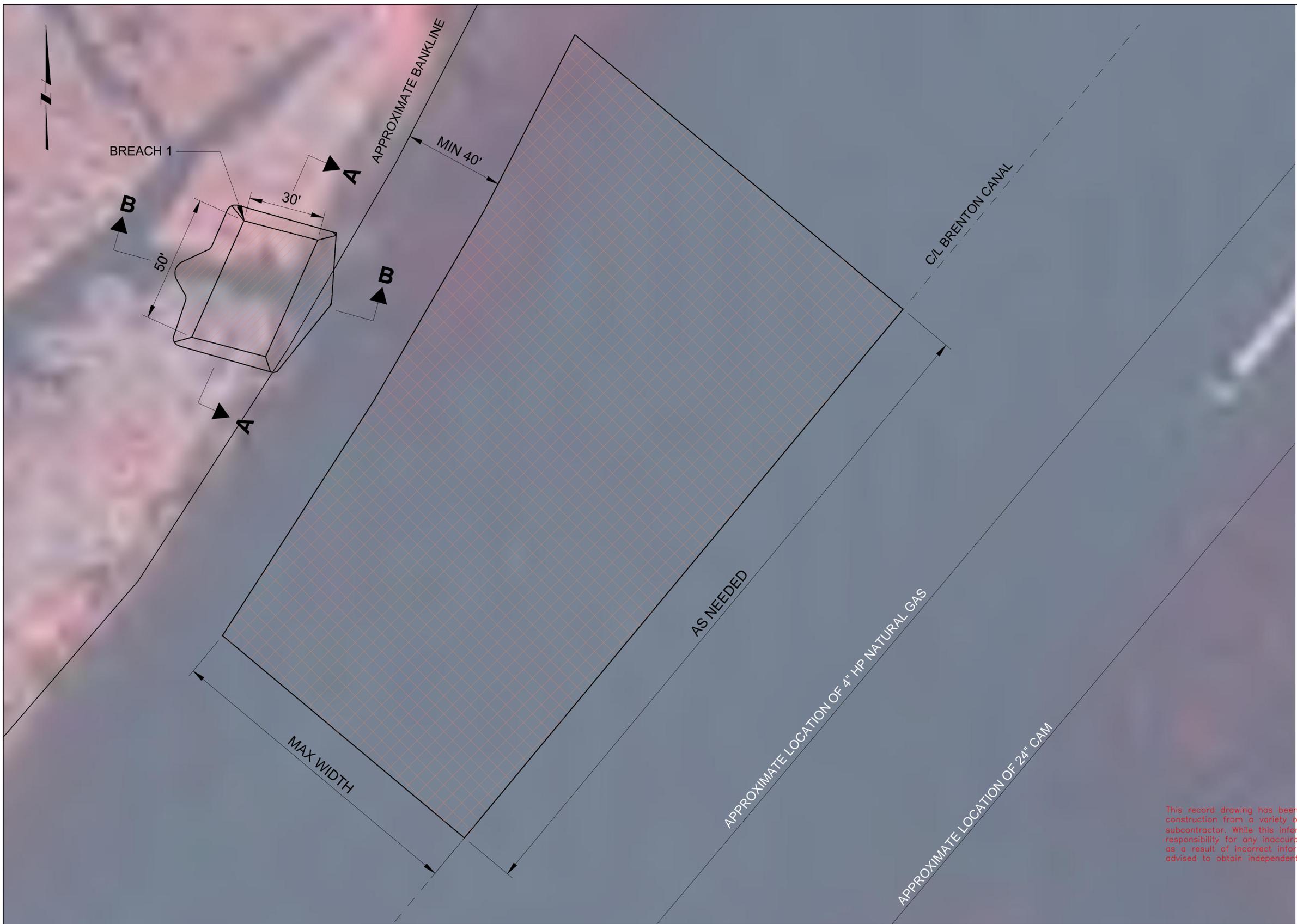
1. NO DREDGING SHALL TAKE PLACE WITHIN 10 FEET OF VEGETATED WATER BOTTOMS, OR 40 FEET FROM EXISTING BANKLINE.
2. DREDGING SHALL NOT EXTEND PAST APPROXIMATE CENTERLINE OF CANAL.
3. THE LOCATION OF EXISTING PIPELINES, UTILITIES, STRUCTURES IS APPROXIMATE. SEE NOTE 4 ON SHEET 2.
4. CLEARING AND GRUBBING IN THE AREA OF THE BREACH REPAIRS MAY BE REQUIRED PRIOR TO COMMENCING BREACH REPAIR WORK. THIS WORK IS CONSIDERED INCIDENTAL TO THE BREACH REPAIR WORK.
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7. ALL BREACH PLUGS SHALL BE VEGETATED. SEE SPECIFICATIONS.
8. CONTRACTOR TO COORDINATE ACTUAL LOCATION OF BREACH PLUG WITH OCPR PROJECT ENGINEER OR ASSIGNED PROJECT REPRESENTATIVE PRIOR TO INSTALLATION.

**LEGEND**

-  FILL AREA
-  DREDGE AREA

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**AS-BUILT DRAWING**



**BREACH 1 - PLAN**  
SCALE: 1" = 40'

REV.	DATE	DESCRIPTION	BY



**OFFICE OF COASTAL PROTECTION & RESTORATION  
ENGINEERING BRANCH**

450 LAUREL STREET, SUITE 1200  
BATON ROUGE, LOUISIANA 70804

DRAWN BY: LKL

DESIGNED BY: NJR

**GIWW TO CLOVELLY HYDRAULIC RESTORATION  
2010 MAINTENANCE PROJECT**

STATE PROJECT NUMBER: BA-02

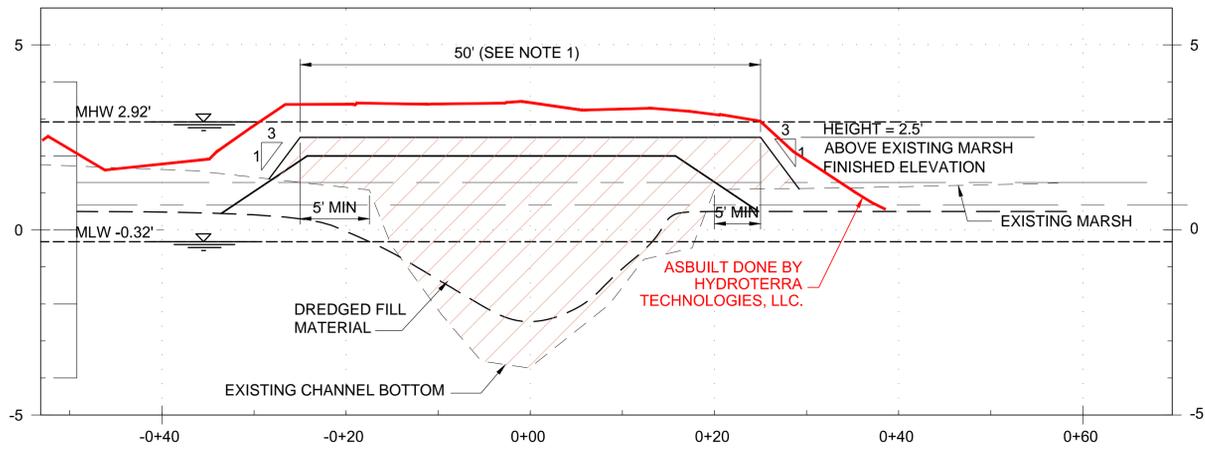
FEDERAL PROJECT NUMBER: BA-02

APPROVED BY: JPS

**BREACH 1 -  
PLAN**

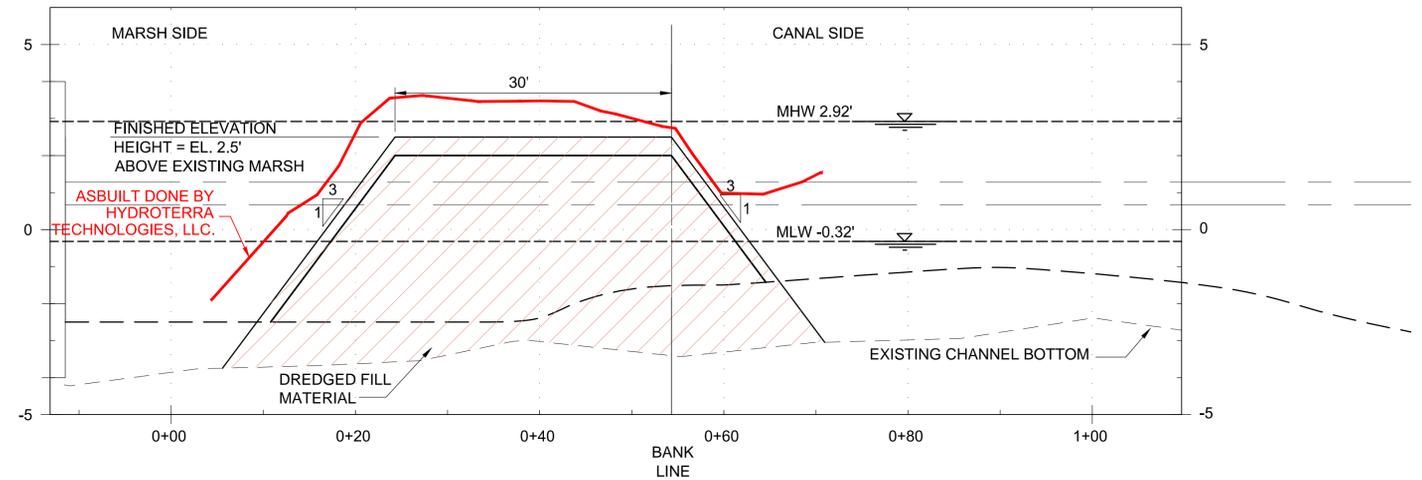
DATE: MARCH 2011

SHEET 24 OF 36



**BREACH 1 - SECTION**  
 HORIZONTAL SCALE: 1" = 20'  
 VERTICAL SCALE: 1" = 5'

A	24
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**BREACH 1 - PROFILE**  
 HORIZONTAL SCALE: 1" = 20'  
 VERTICAL SCALE: 1" = 5'

B	24
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**GENERAL SHEET NOTES**

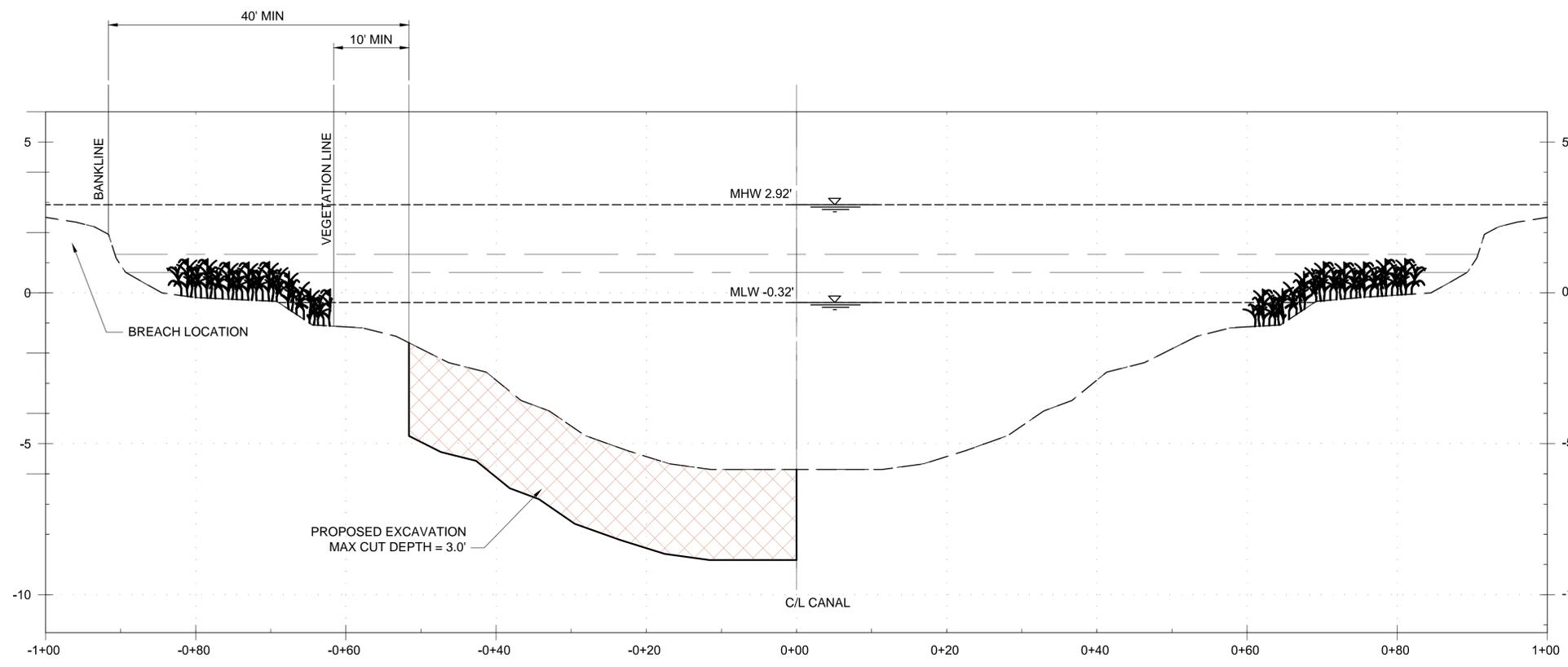
1. BREACH REPAIR TIE-INS SHALL EXTEND MIN 5' ONTO EXISTING BANK.
2. EXISTING GRADE ELEVATIONS ARE BASED ON 2010 SURVEY DATA.
3. SEE SPECIFICATIONS FOR SETTLEMENT REQUIREMENTS.

**LEGEND**

	FILL AREA
	DREDGE AREA

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**AS-BUILT DRAWING**



**TYPICAL BORROW AREA**  
 H: 1" = 20'-0"  
 V: 1" = 5'-0"

REV.	DATE	DESCRIPTION	BY



**OFFICE OF COASTAL PROTECTION & RESTORATION  
 ENGINEERING BRANCH**

450 LAUREL STREET, SUITE 1200  
 BATON ROUGE, LOUISIANA 70804

DRAWN BY: LKL      DESIGNED BY: NJR

**GIWW TO CLOVELLY HYDRAULIC RESTORATION  
 2010 MAINTENANCE PROJECT**

STATE PROJECT NUMBER: BA-02

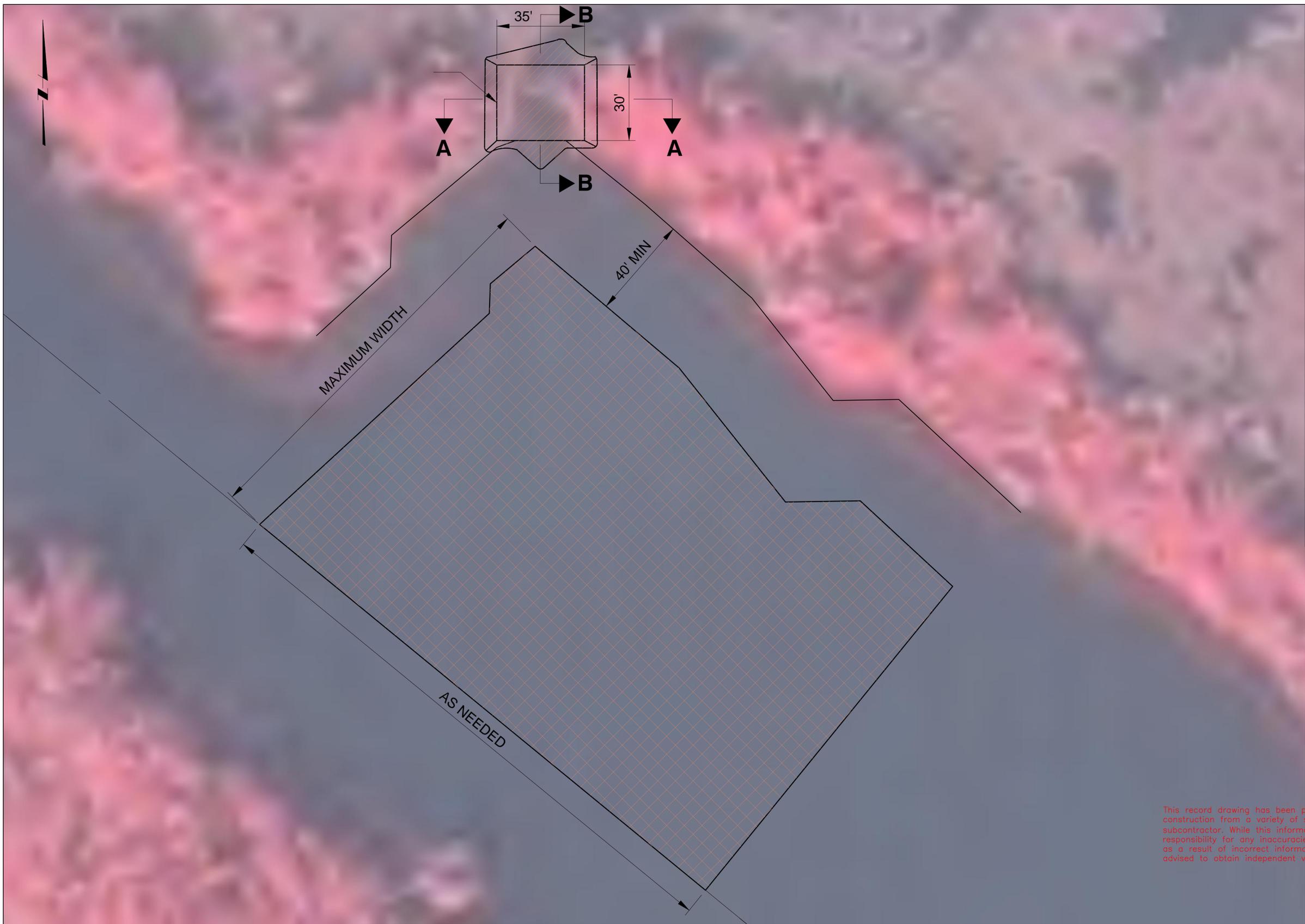
FEDERAL PROJECT NUMBER: BA-02

APPROVED BY: JPS

**BREACH 1-  
 SECTIONS**

DATE: MARCH 2011

SHEET 25 OF 36



- GENERAL SHEET NOTES**
- NO DREDGING SHALL TAKE PLACE WITHIN 10 FEET OF VEGETATED WATER BOTTOMS, OR 40 FEET FROM EXISTING BANKLINE.
  - DREDGING SHALL NOT EXTEND PAST APPROXIMATE CENTERLINE OF CANAL.
  - THE LOCATION OF EXISTING PIPELINES, UTILITIES, STRUCTURES IS APPROXIMATE. SEE NOTE 4 ON SHEET 2.
  - CLEARING AND GRUBBING IN THE AREA OF THE BREACH REPAIRS MAY BE REQUIRED PRIOR TO COMMENCING BREACH REPAIR WORK. THIS WORK IS CONSIDERED INCIDENTAL TO THE BREACH REPAIR WORK.
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  - DISTURBANCE TO MARINE TRAFFIC NEEDS TO BE AVOIDED BY THE CONTRACTOR. NECESSARY WARNING SIGNS/TEMPORARY NAVIGATIONAL AIDS SHALL BE INSTALLED IN ACCORDANCE WITH USCG REGULATION. SEQUENCE OF CONSTRUCTION AND PLAN FOR MAINTAINING MARINE TRAFFIC THROUGH THE STRUCTURE SHALL BE SUBMITTED TO OCPR FOR APPROVAL.
  - ALL BREACH PLUGS SHALL BE VEGETATED. SEE SPECIFICATIONS.
  - CONTRACTOR TO COORDINATE ACTUAL LOCATION OF BREACH PLUG WITH OCPR PROJECT ENGINEER OR ASSIGNED PROJECT REPRESENTATIVE PRIOR TO INSTALLATION.

**LEGEND**

 FILL AREA

 DREDGE AREA

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**AS-BUILT DRAWING**

**BREACH 2 - PLAN**  
SCALE: 1" = 40'

REV.	DATE	DESCRIPTION	BY



OFFICE OF COASTAL PROTECTION & RESTORATION  
**ENGINEERING BRANCH**  
450 LAUREL STREET, SUITE 1200  
BATON ROUGE, LOUISIANA 70804

GIWW TO CLOVELLY HYDRAULIC RESTORATION  
2010 MAINTENANCE PROJECT

STATE PROJECT NUMBER: BA-02

FEDERAL PROJECT NUMBER: BA-02

APPROVED BY: JPS

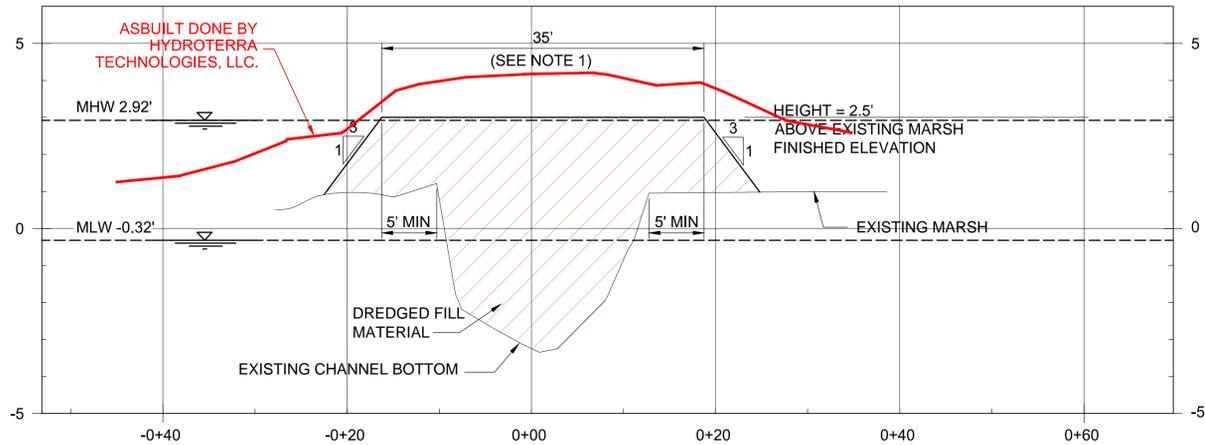
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**BREACH 2 - PLAN**

DATE: MARCH 2011

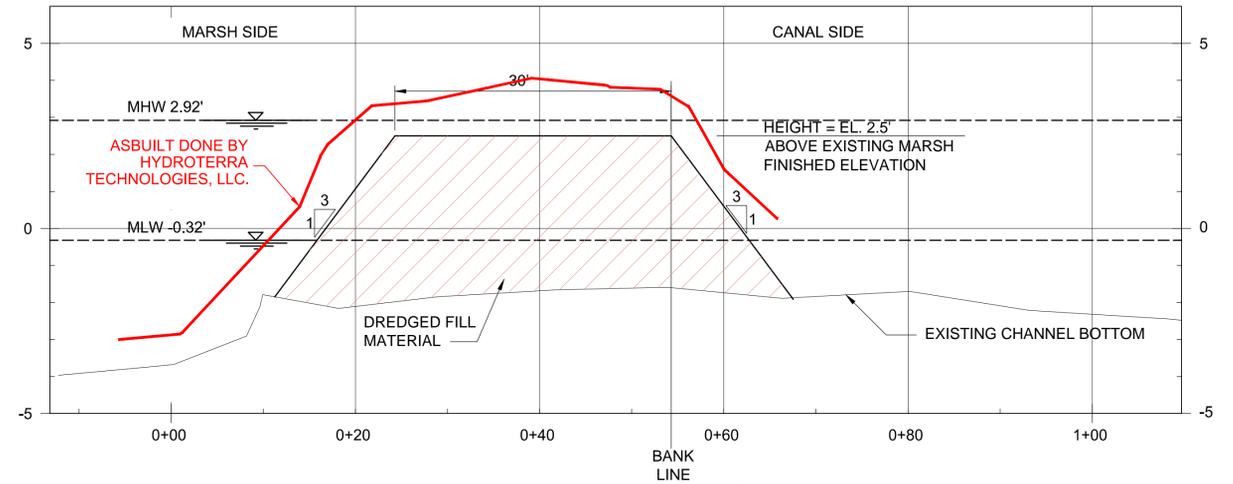
SHEET 26 OF 36

DRAWN BY: LKL

DESIGNED BY: NJR



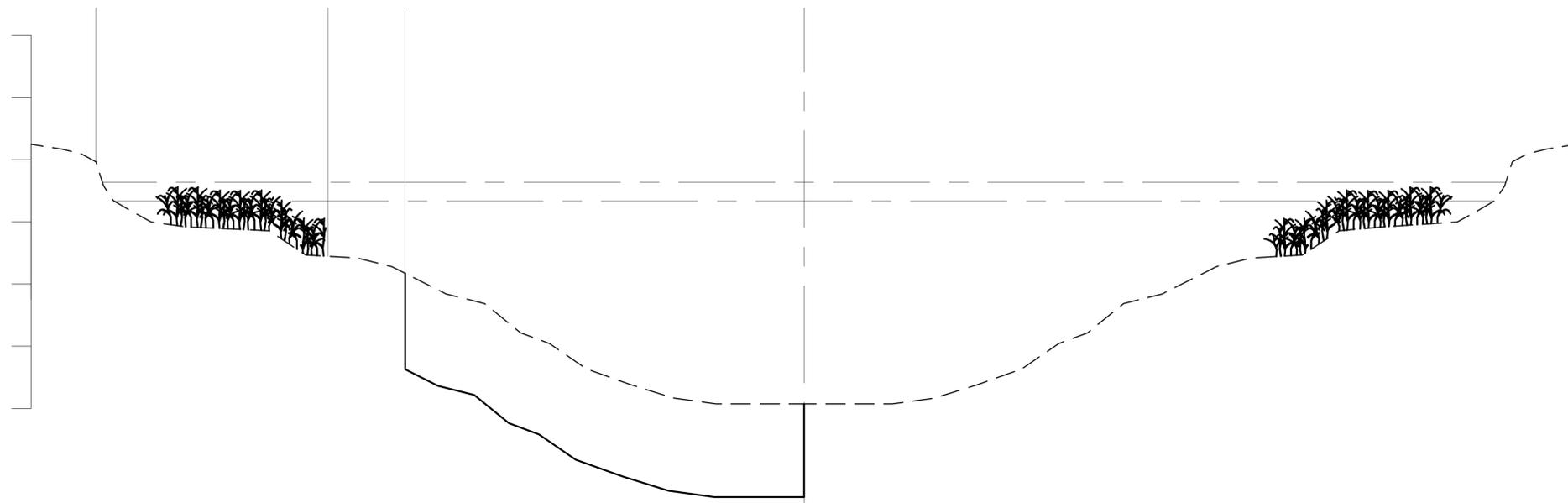
**BREACH 2 - SECTION A**  
 HORIZONTAL SCALE: 1" = 20'  
 VERTICAL SCALE: 1" = 5'



**BREACH 2 - PROFILE B**  
 HORIZONTAL SCALE: 1" = 20'  
 VERTICAL SCALE: 1" = 5'

**GENERAL SHEET NOTES**

1. BREACH REPAIR TIE-INS SHALL EXTEND MIN 5' ONTO EXISTING BANK.
2. EXISTING GRADE ELEVATIONS ARE BASED ON 2010 SURVEY DATA.
3. SEE SPECIFICATIONS FOR SETTLEMENT REQUIREMENTS.



**TYPICAL BORROW AREA**  
 H: 1" = 20'-0"  
 V: 1" = 5'-0"

**LEGEND**

- FILL AREA
- DREDGE AREA

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**AS-BUILT DRAWING**

REV.	DATE	DESCRIPTION	BY



OFFICE OF COASTAL PROTECTION & RESTORATION  
**ENGINEERING BRANCH**

450 LAUREL STREET, SUITE 1200  
 BATON ROUGE, LOUISIANA 70804

DRAWN BY: LKL

DESIGNED BY: NJR

GIWW TO CLOVELLY HYDRAULIC RESTORATION  
 2010 MAINTENANCE PROJECT

STATE PROJECT NUMBER: BA-02

FEDERAL PROJECT NUMBER: BA-02

APPROVED BY: JPS

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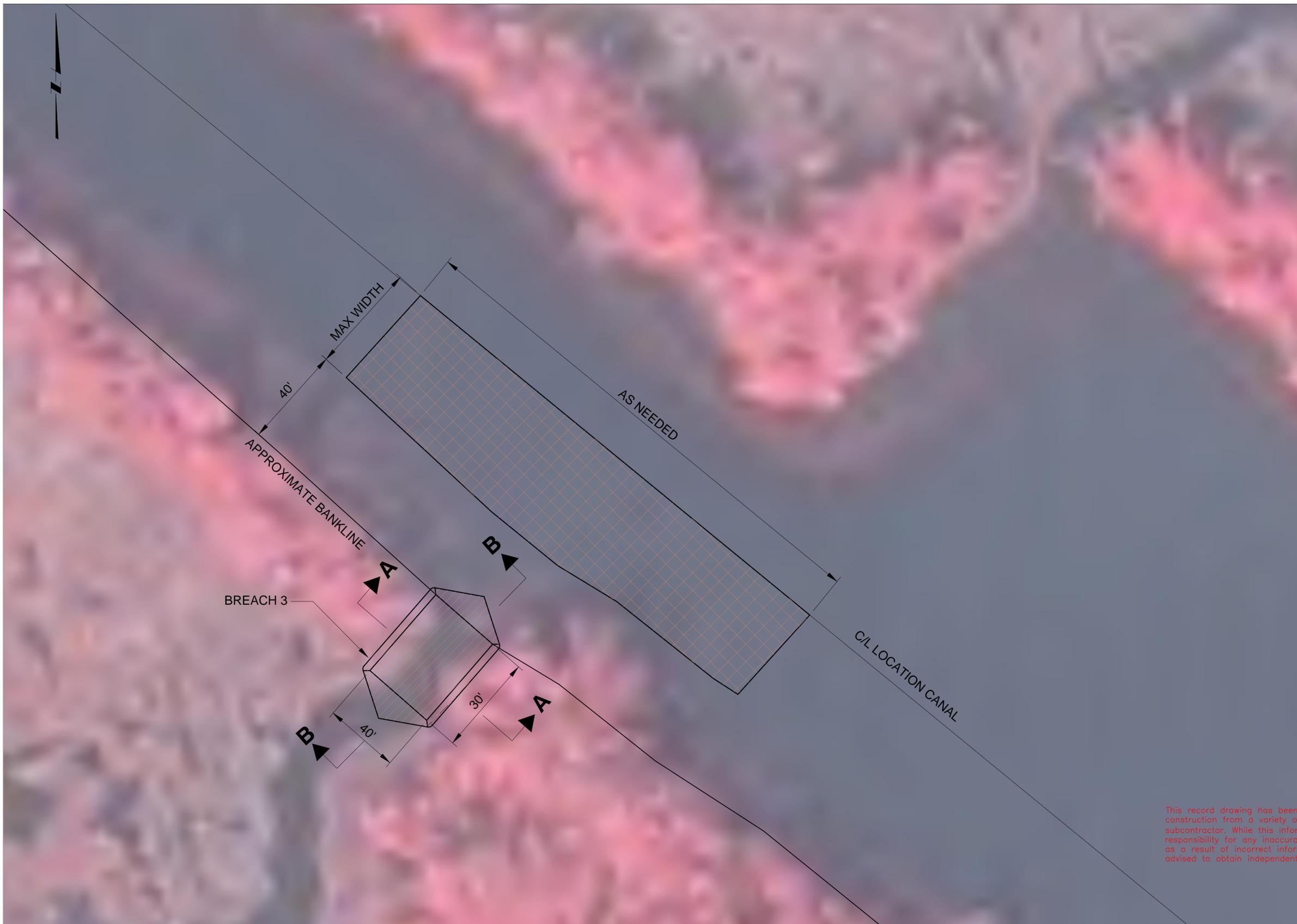
**BREACH 2 - SECTIONS**

DATE: MARCH 2011

SHEET 27 OF 36

**GENERAL SHEET NOTES**

1. NO DREDGING SHALL TAKE PLACE WITHIN 10 FEET OF VEGETATED WATER BOTTOMS, OR 40 FEET FROM EXISTING BANKLINE.
2. DREDGING SHALL NOT EXTEND PAST APPROXIMATE CENTERLINE OF CANAL.
3. THE LOCATION OF EXISTING PIPELINES, UTILITIES, STRUCTURES IS APPROXIMATE. SEE NOTE 4 ON SHEET 2.
4. CLEARING AND GRUBBING IN THE AREA OF THE BREACH REPAIRS MAY BE REQUIRED PRIOR TO COMMENCING BREACH REPAIR WORK. THIS WORK IS CONSIDERED INCIDENTAL TO THE BREACH REPAIR WORK.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING PIPELINE OPERATORS 48 HOURS IN ADVANCE OF THE WORK. ALL PIPELINES SHALL BE MARKED WITH BUOYS BY THE CONTRACTOR. THE CONTRACTOR SHALL MAINTAIN BUOYS DURING CONSTRUCTION OR HAVE ADEQUATE NAVIGATIONAL EQUIPMENT ON THE DREDGE TO AVOID DREDGING IN RESTRICTED AREAS. THE CONTRACTOR SHALL NOT ANCHOR OR EXCAVATE WITHIN 50 FEET OF ANY PIPELINE. NOTICE: 48 HOURS BEFORE DREDGING CALL LOUISIANA ONE CALL AT 1-800-272-3020 TO LOCATE ANY OTHER PIPELINES OR UTILITIES.
6. DISTURBANCE TO MARINE TRAFFIC NEEDS TO BE AVOIDED BY THE CONTRACTOR. NECESSARY WARNING SIGNS/TEMPORARY NAVIGATIONAL AIDS SHALL BE INSTALLED IN ACCORDANCE WITH USCG REGULATION. SEQUENCE OF CONSTRUCTION AND PLAN FOR MAINTAINING MARINE TRAFFIC THROUGH THE STRUCTURE SHALL BE SUBMITTED TO OCPR FOR APPROVAL.
7. ALL BREACH PLUGS SHALL BE VEGETATED. SEE SPECIFICATIONS.
8. CONTRACTOR TO COORDINATE ACTUAL LOCATION OF BREACH PLUG WITH OCPR PROJECT ENGINEER OR ASSIGNED PROJECT REPRESENTATIVE PRIOR TO INSTALLATION.



**LEGEND**

- FILL AREA
- DREDGE AREA

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AS-BUILT DRAWING

**BREACH 3 - PLAN**  
SCALE: 1" = 40'

REV.	DATE	DESCRIPTION	BY



OFFICE OF COASTAL PROTECTION & RESTORATION  
**ENGINEERING BRANCH**  
450 LAUREL STREET, SUITE 1200  
BATON ROUGE, LOUISIANA 70804

GIWW TO CLOVELLY HYDRAULIC RESTORATION  
2010 MAINTENANCE PROJECT

#####  
**BREACH 3 - PLAN**

STATE PROJECT NUMBER: BA-02

FEDERAL PROJECT NUMBER: BA-02

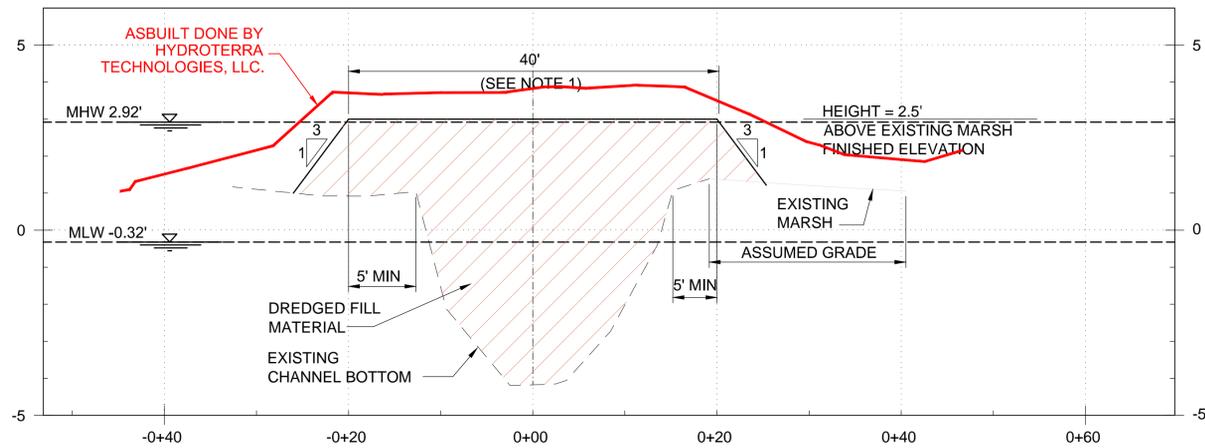
DATE: MARCH 2011

DRAWN BY: LKL

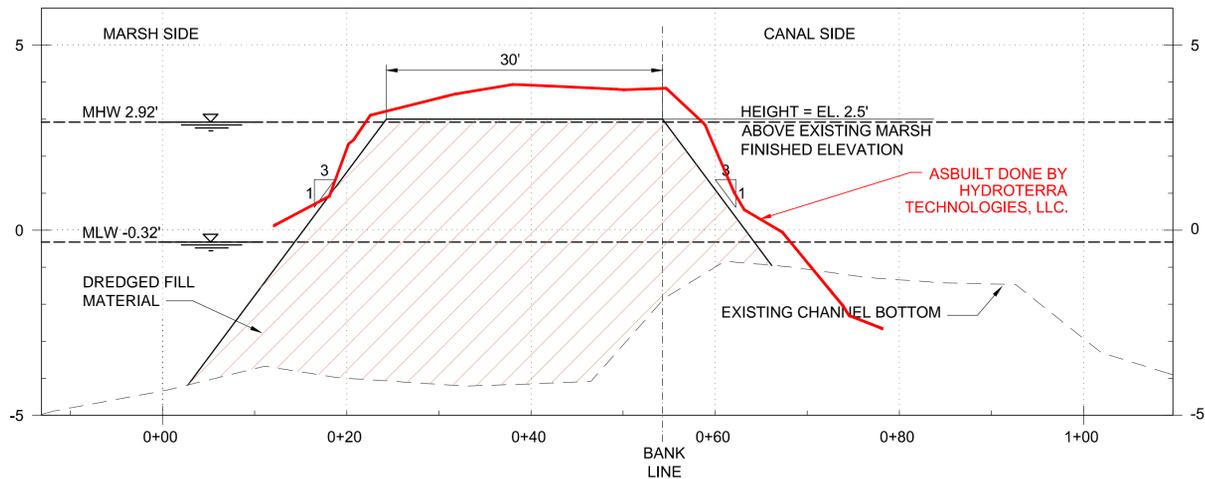
DESIGNED BY: NJR

APPROVED BY: JPS

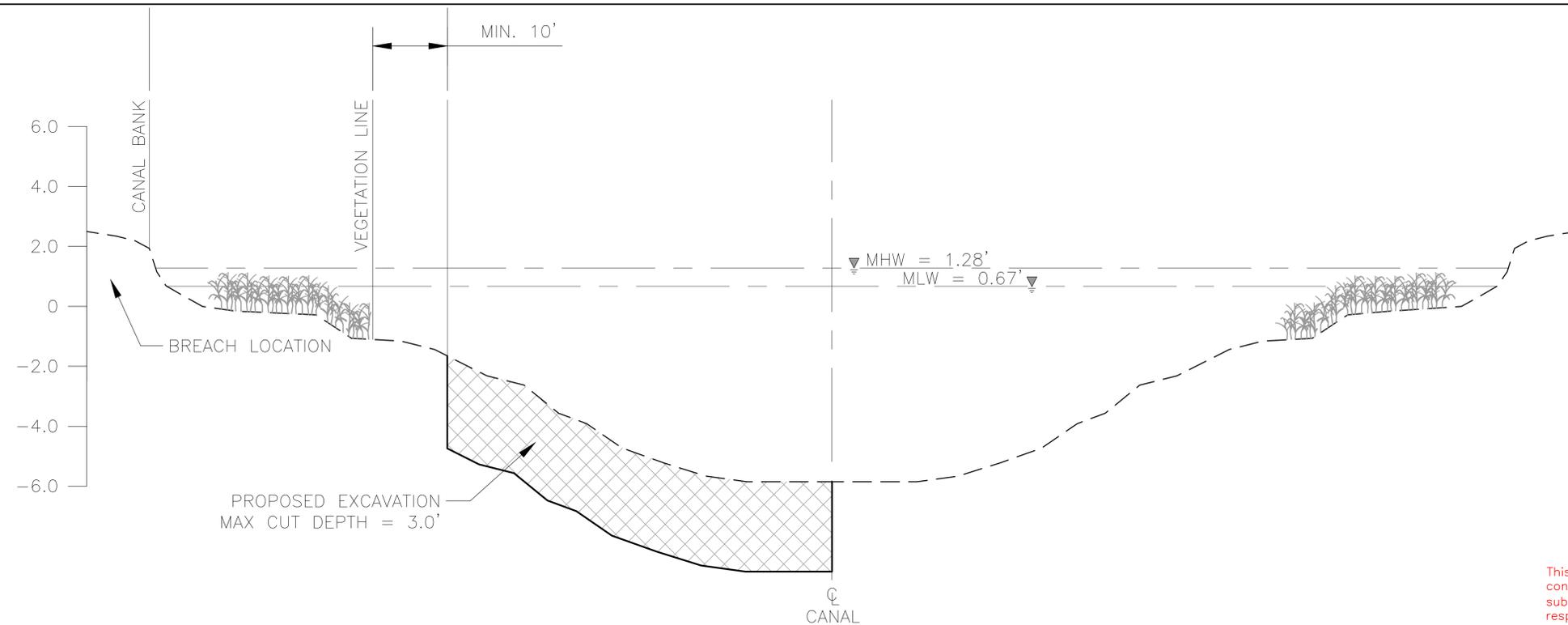
SHEET 28 OF 36



**BREACH 3 SECTION A**  
 HORIZONTAL SCALE: 1" = 20'  
 VERTICAL SCALE: 1" = 5'



**BREACH 3 - PROFILE B**  
 HORIZONTAL SCALE: 1" = 20'  
 VERTICAL SCALE: 1" = 5'



**TYPICAL BORROW AREA**  
 H: 1" = 20'-0"  
 V: 1" = 5'-0"

- GENERAL SHEET NOTES**
- BREACH REPAIR TIE-INS SHALL EXTEND MIN 5' ONTO EXISTING BANK.
  - EXISTING GRADE ELEVATIONS ARE BASED ON 2010 SURVEY DATA.
  - SEE SPECIFICATIONS FOR SETTLEMENT REQUIREMENTS.

**LEGEND**

	FILL AREA
	DREDGE AREA

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**AS-BUILT DRAWING**

REV.	DATE	DESCRIPTION	BY



OFFICE OF COASTAL PROTECTION & RESTORATION  
**ENGINEERING BRANCH**  
 450 LAUREL STREET, SUITE 1200  
 BATON ROUGE, LOUISIANA 70804

DRAWN BY: LKL      DESIGNED BY: NJR

GIWW TO CLOVELLY HYDRAULIC RESTORATION  
 2010 MAINTENANCE PROJECT

STATE PROJECT NUMBER: BA-02  
 FEDERAL PROJECT NUMBER: BA-02

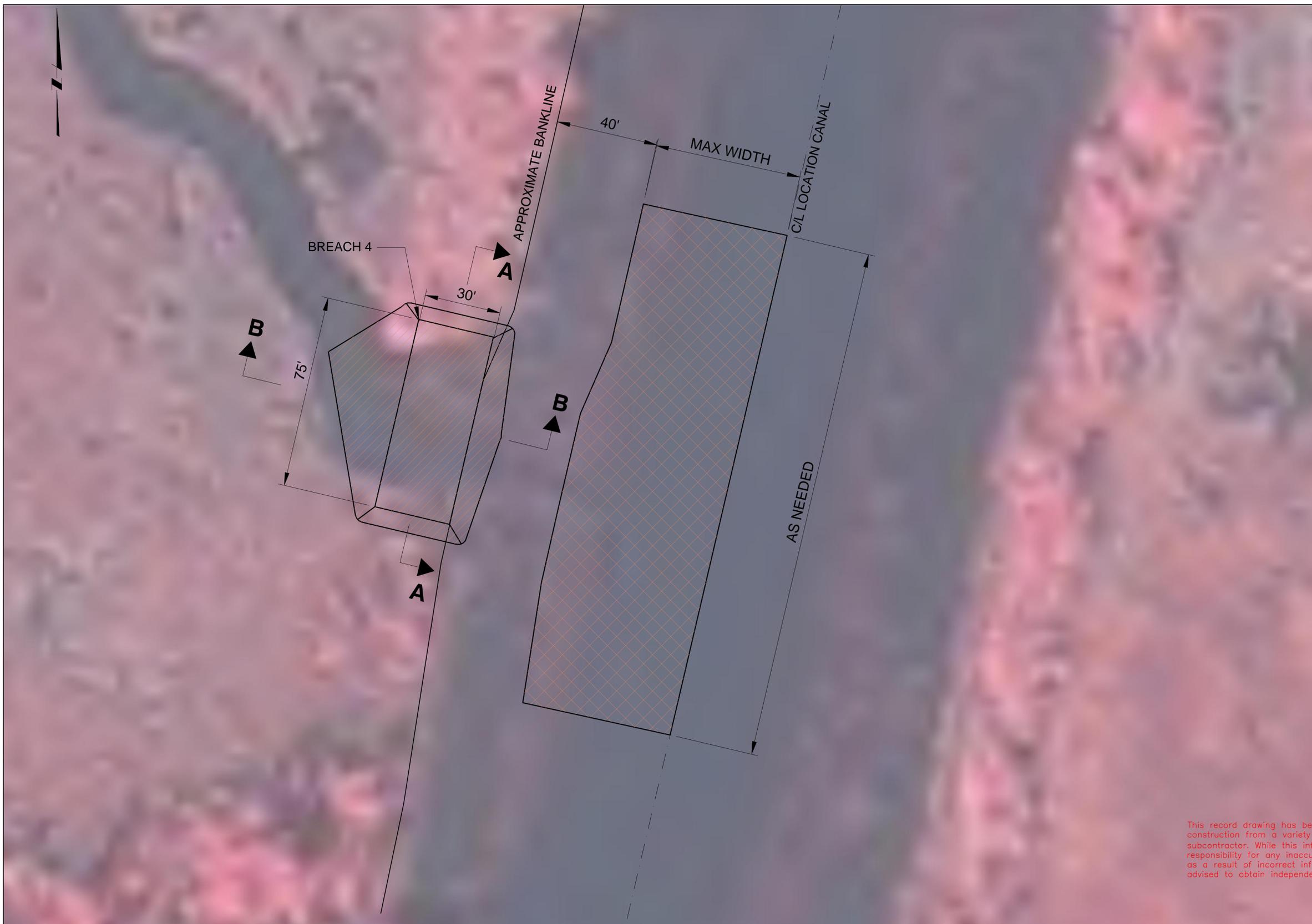
APPROVED BY: JPS

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**BREACH 3 SECTIONS**

DATE: MARCH 2011

SHEET 29 OF 36



- GENERAL SHEET NOTES**
- NO DREDGING SHALL TAKE PLACE WITHIN 10 FEET OF VEGETATED WATER BOTTOMS, OR 40 FEET FROM EXISTING BANKLINE.
  - DREDGING SHALL NOT EXTEND PAST APPROXIMATE CENTERLINE OF CANAL.
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  - ALL BREACH PLUGS SHALL BE VEGETATED. SEE SPECIFICATIONS.
  - CONTRACTOR TO COORDINATE ACTUAL LOCATION OF BREACH PLUG WITH OCPR PROJECT ENGINEER OR ASSIGNED PROJECT REPRESENTATIVE PRIOR TO INSTALLATION.

**LEGEND**

	FILL AREA
	DREDGE AREA

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**AS-BUILT DRAWING**

**BREACH 4 - PLAN**  
SCALE: 1" = 40'

REV.	DATE	DESCRIPTION	BY



OFFICE OF COASTAL PROTECTION & RESTORATION  
**ENGINEERING BRANCH**

450 LAUREL STREET, SUITE 1200  
BATON ROUGE, LOUISIANA 70804

DRAWN BY: LKL

DESIGNED BY: NJR

GIWW TO CLOVELLY HYDRAULIC RESTORATION  
2010 MAINTENANCE PROJECT

STATE PROJECT NUMBER: BA-02

FEDERAL PROJECT NUMBER: BA-02

APPROVED BY: JPS

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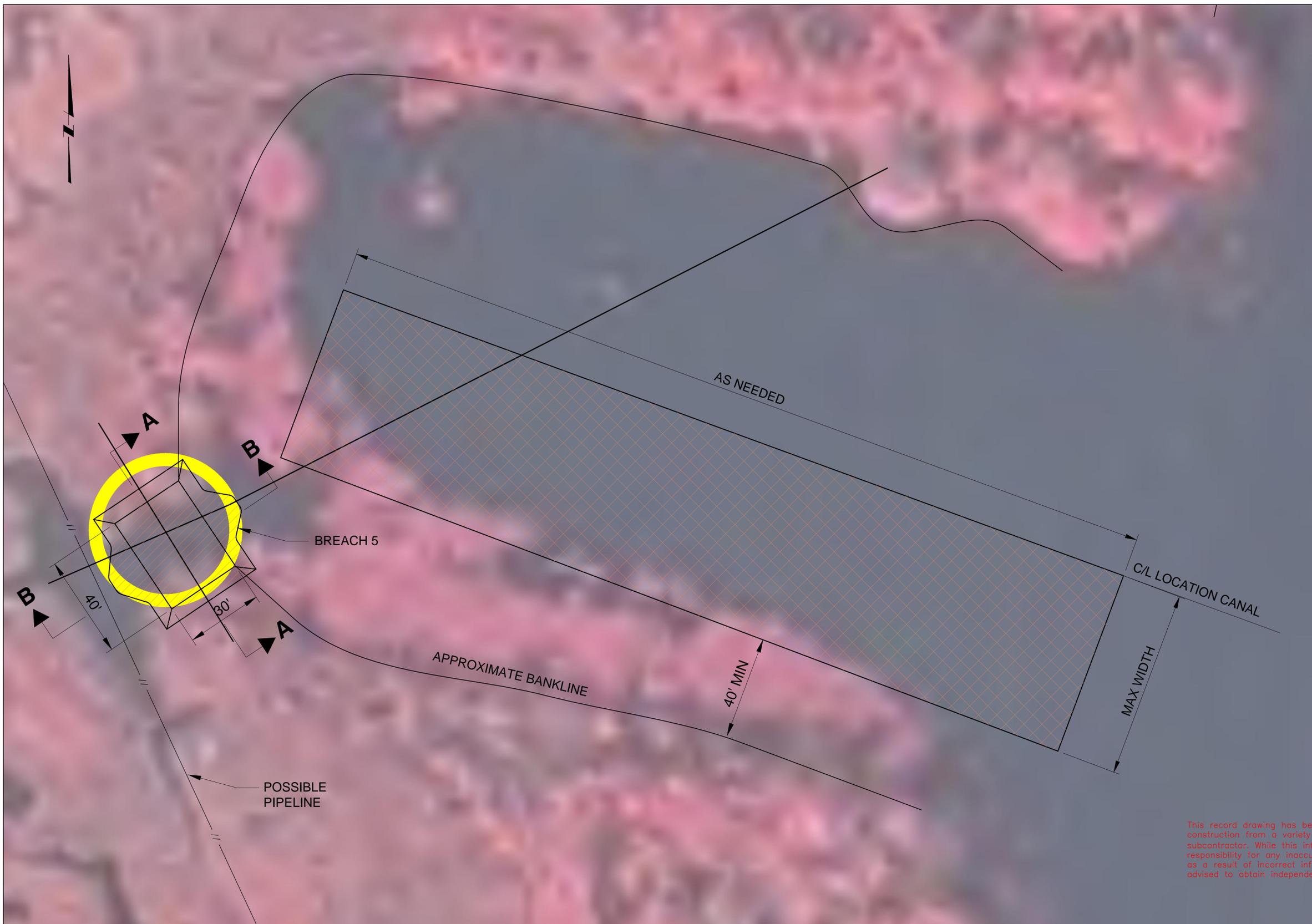
**BREACH 4 - PLAN**

DATE: MARCH 2011

SHEET 30 OF 36



- GENERAL SHEET NOTES**
- NO DREDGING SHALL TAKE PLACE WITHIN 10 FEET OF VEGETATED WATER BOTTOMS, OR 40 FEET FROM EXISTING BANKLINE.
  - DREDGING SHALL NOT EXTEND PAST APPROXIMATE CENTERLINE OF CANAL.
  - THE LOCATION OF EXISTING PIPELINES, UTILITIES, STRUCTURES IS APPROXIMATE. SEE NOTE 4 ON SHEET 2.
  - CLEARING AND GRUBBING IN THE AREA OF THE BREACH REPAIRS MAY BE REQUIRED PRIOR TO COMMENCING BREACH REPAIR WORK. THIS WORK IS CONSIDERED INCIDENTAL TO THE BREACH REPAIR WORK.
  - THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING PIPELINE OPERATORS 48 HOURS IN ADVANCE OF THE WORK. ALL PIPELINES SHALL BE MARKED WITH BUOYS BY THE CONTRACTOR. THE CONTRACTOR SHALL MAINTAIN BUOYS DURING CONSTRUCTION OR HAVE ADEQUATE NAVIGATIONAL EQUIPMENT ON THE DREDGE TO AVOID DREDGING IN RESTRICTED AREAS. THE CONTRACTOR SHALL NOT ANCHOR OR EXCAVATE WITHIN 50 FEET OF ANY PIPELINE. NOTICE: 48 HOURS BEFORE DREDGING CALL LOUISIANA ONE CALL AT 1-800-272-3020 TO LOCATE ANY OTHER PIPELINES OR UTILITIES.
  - DISTURBANCE TO MARINE TRAFFIC NEEDS TO BE AVOIDED BY THE CONTRACTOR. NECESSARY WARNING SIGNS/TEMPORARY NAVIGATIONAL AIDS SHALL BE INSTALLED IN ACCORDANCE WITH USCG REGULATION. SEQUENCE OF CONSTRUCTION AND PLAN FOR MAINTAINING MARINE TRAFFIC THROUGH THE STRUCTURE SHALL BE SUBMITTED TO OCPR FOR APPROVAL.
  - ALL BREACH PLUGS SHALL BE VEGETATED. SEE SPECIFICATIONS.
  - CONTRACTOR TO COORDINATE ACTUAL LOCATION OF BREACH PLUG WITH OCPR PROJECT ENGINEER OR ASSIGNED PROJECT REPRESENTATIVE PRIOR TO INSTALLATION.



**LEGEND**

	FILL AREA
	DREDGE AREA

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**AS-BUILT DRAWING**

**BREACH 5 - PLAN**  
SCALE: 1" = 40'

REV.	DATE	DESCRIPTION	BY



**OFFICE OF COASTAL PROTECTION & RESTORATION  
ENGINEERING BRANCH**

450 LAUREL STREET, SUITE 1200  
BATON ROUGE, LOUISIANA 70804

DRAWN BY: LKL

DESIGNED BY: NJR

GIWW TO CLOVELLY HYDRAULIC RESTORATION  
2010 MAINTENANCE PROJECT

STATE PROJECT NUMBER: BA-02

FEDERAL PROJECT NUMBER: BA-02

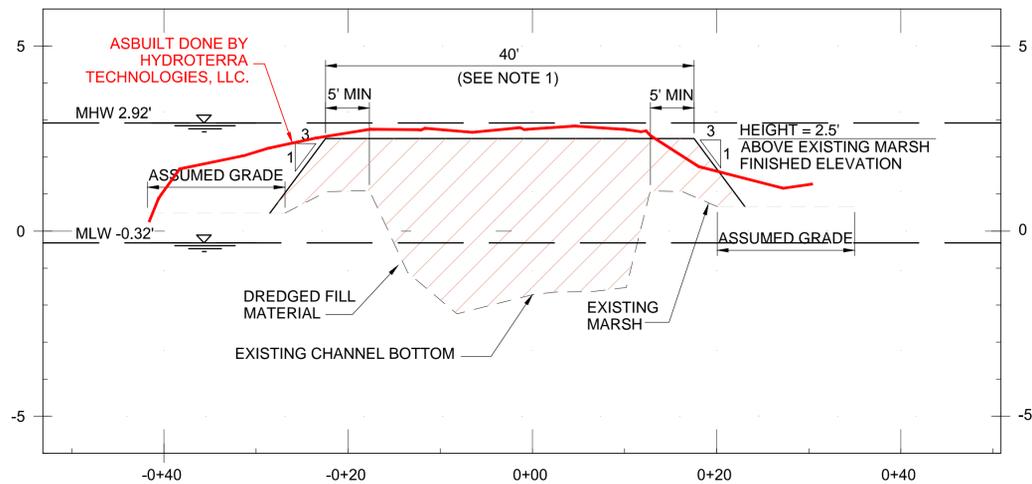
APPROVED BY: JPS

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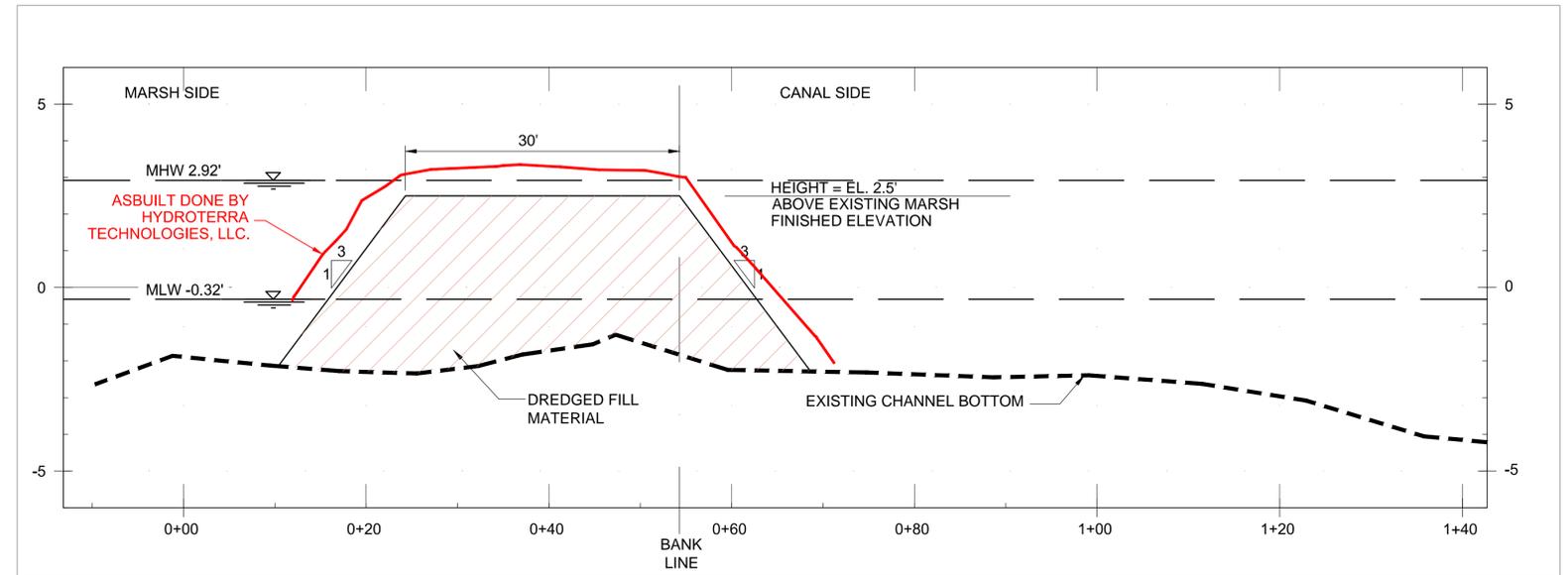
**BREACH 5 - PLAN**

DATE: MARCH 2011

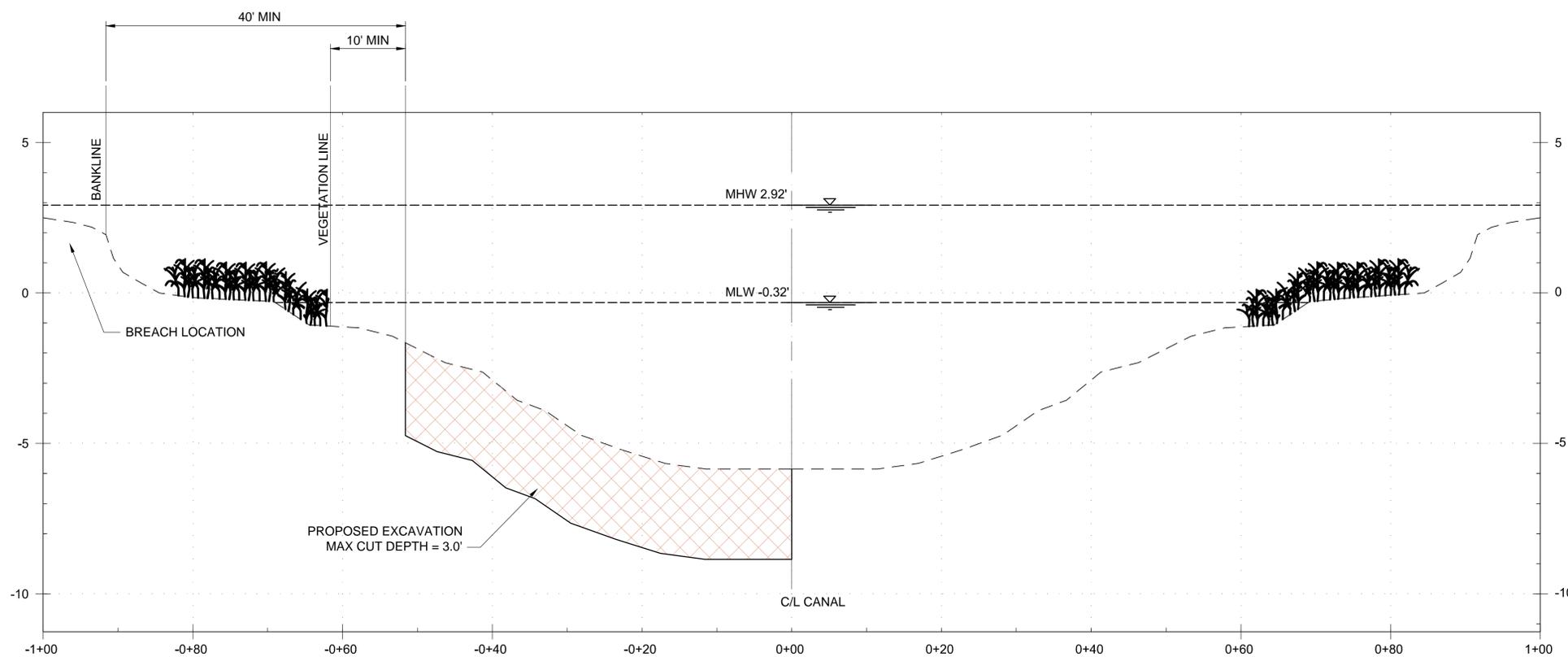
SHEET32 OF 36



**BREACH 5 - SECTION A**  
 HORIZONTAL SCALE: 1" = 20'  
 VERTICAL SCALE: 1" = 5'



**BREACH 5 - PROFILE B**  
 HORIZONTAL SCALE: 1" = 20'  
 VERTICAL SCALE: 1" = 5'



**TYPICAL BORROW AREA**  
 H: 1" = 20'-0"  
 V: 1" = 5'-0"

**GENERAL SHEET NOTES**

1. BREACH REPAIR TIE-INS SHALL EXTEND MIN 5' ONTO EXISTING BANK.
2. EXISTING GRADE ELEVATIONS ARE BASED ON 2010 SURVEY DATA.
3. SEE SPECIFICATIONS FOR SETTLEMENT REQUIREMENTS.

**LEGEND**

- FILL AREA
- DREDGE AREA

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**AS-BUILT DRAWING**

- NOTES:
1. BREACH REPAIR TIE-INS SHALL EXTEND MIN. 5' ONTO EXISTING BANK.
  2. EXISTING GRADE ELEVATIONS ARE BASED ON 2010 SURVEY DATA UNLESS SHOWN OTHERWISE.

REV.	DATE	DESCRIPTION	BY



**OFFICE OF COASTAL PROTECTION & RESTORATION  
 ENGINEERING BRANCH**

450 LAUREL STREET, SUITE 1200  
 BATON ROUGE, LOUISIANA 70804

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GIWW TO CLOVELLY HYDRAULIC RESTORATION  
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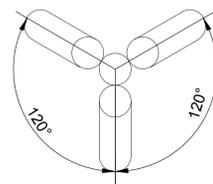
APPROVED BY: JPS

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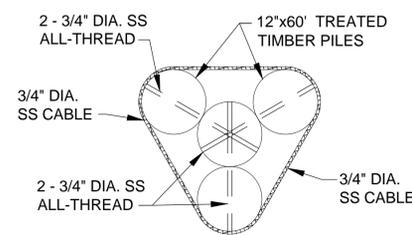
**BREACH 5 -  
 SECTIONS**

DATE: MARCH 2011

SHEET 33 OF 36

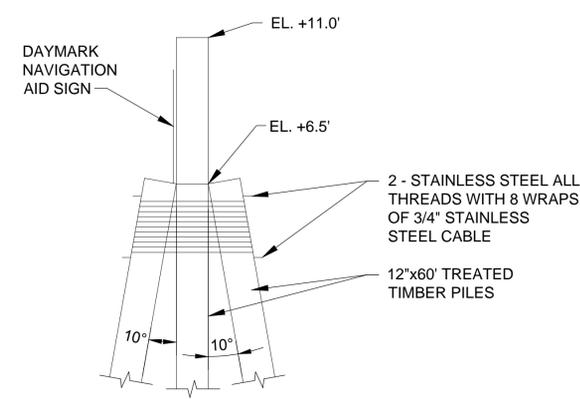


TOP VIEW  
NO SCALE

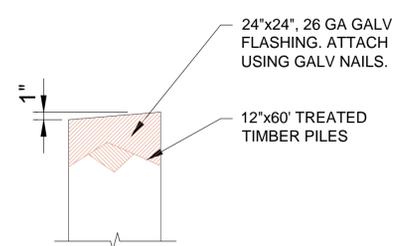


TYPE V - NAV AID SUPPORT  
PLAN VIEW  
NO SCALE

SUMMARY OF REQUIRED STRUCTURES AND SIGNS								
SITE NO.	SIGN TYPE	SUPPORT TYPE TO BE REPLACED	NUMBER OF SUBSTRUCTURES TO BE REPLACED	DESCRIPTION	NUMBER OF SIGNS TO BE REPLACED	NAVIGATION LIGHTS TO REMOVE AND REINSTALL	GALVANIZED WOOD PILE CAP	SHEET
1	C	V	4	NAVIGATION AIDS	4	0	16	4
4	A	III	1	NAVIGATION AIDS	1	0	1	7
14A	C	V	3	NAVIGATION AIDS	3	3	12	9
91	-	-	0	-	0	0	4	3



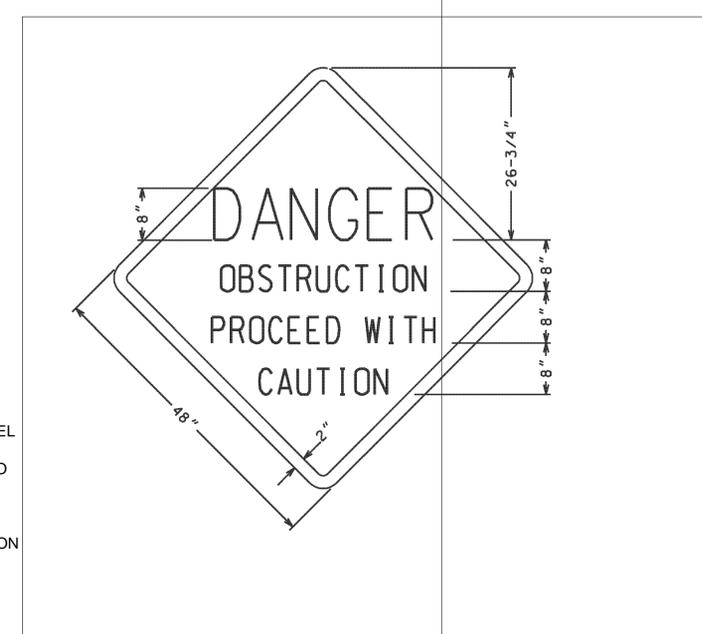
TYPE V - NAV AID SUPPORT DETAIL  
NO SCALE



TYPICAL GALVANIZED WOOD PILE CAP  
NO SCALE

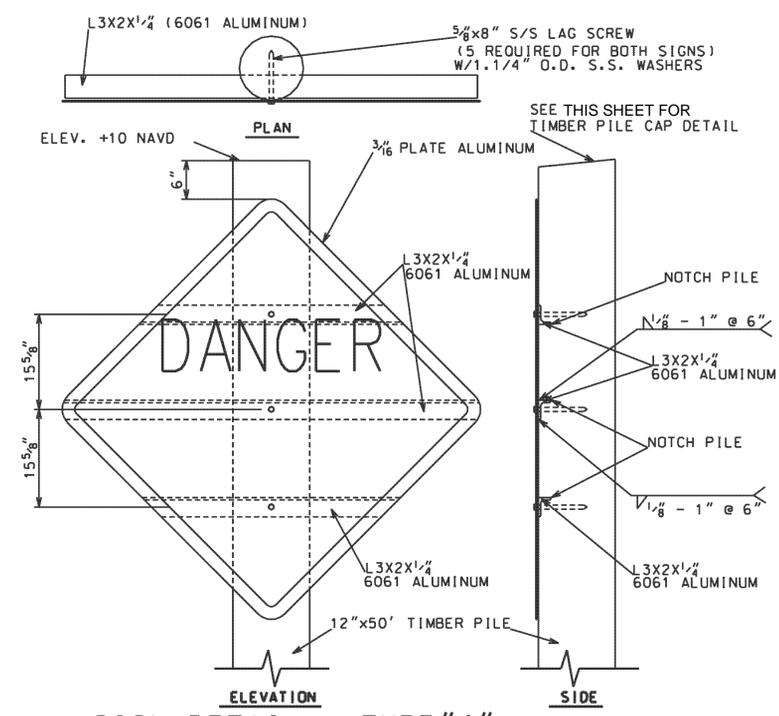
NOTES:

- CONTRACTOR TO REMOVE AND PROPERLY DISPOSE OF SUBSTRUCTURES FOLLOWING APPLICABLE LAWS.
- CONTRACTOR TO USE TWO 3/4" DIAMETER STAINLESS STEEL RODS TO BOLT THE SUBSTRUCTURE PILING TOGETHER. THE RODS SHALL BE SPACED APPROXIMATELY 8" APART TO ALLOW THE STAINLESS STEEL CABLE TO BE WRAPPED BETWEEN THE RODS AND THUS BE HELD IN PLACE.
- ALL TREATED TIMBER PILES FOR THE FOUR PILE NAVIGATION AID DOLPHIN SHALL BE 12"x60'.
- THE 3/4" DIAMETER ALL-THREAD TIE RODS SHALL BE A MINIMUM OF 6" BELOW THE TOP OF THE BATTER PILE AND HAVE 3" VERTICAL CLEARANCE FROM ADJACENT TIE RODS.
- ALL 3/4" DIAMETER ALL-THREAD TIE RODS SHALL BE SECURED BY NOTCHED IN PLACE OGEE WASHERS AND TACK WELDED NUTS.
- SEE SHEET 35 FOR SIGN TYPE DETAILS.
- GALVANIZED WOOD PILE CAPS SHALL BE INSTALLED ON EACH PILE AT STRUCTURE 1, STRUCTURE 14 (EXCEPT CENTER PILE) STRUCTURE 91 AND NEW PILE AT SITE 4.
- 8 WRAPS OF 3/4" DIA CABLE MEETING ASTM A-416 AND ASTM A-882/A-882M-92 BETWEEN THE 3 3/4" DIA ALL-THREAD ASTM A-615 GR60 GALVANIZED AND EPOXY COATED TIE RODS.
- THE 3/4" DIA CABLE SHALL BE SECURED USING 3 STAINLESS STEEL CLAMPS.



NOTES:

- THE 2" BORDER ON THE TYPE "B" WARNING SIGN SHALL BE A RETRO-REFLECTIVE MATERIAL OF ORANGE COLOR. THE LETTERING FIELD SHALL BE A RETRO-REFLECTIVE MATERIAL OF WHITE COLOR. THE LETTERING FOR THE WARNING SIGNS SHALL BE BLACK. WARNINGS SIGNS SHALL BE PLACED ONLY ON THE SIDE FACING THE BAY.
- NEOPRENE OR TEFLON WASHERS SHALL BE PLACED BETWEEN STEEL ANGLE AND ALUMINUM SIGNS.



SIGN DETAIL - TYPE "A"  
SIGN SUPPORT - TYPE "III"

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AS-BUILT DRAWING

REV.	DATE	DESCRIPTION	BY



OFFICE OF COASTAL PROTECTION & RESTORATION  
ENGINEERING BRANCH

450 LAUREL STREET, SUITE 1200  
BATON ROUGE, LOUISIANA 70804

DRAWN BY: LKL

DESIGNED BY: NJR

GIWW TO CLOVELLY HYDRAULIC RESTORATION  
2010 MAINTENANCE PROJECT

STATE PROJECT NUMBER: BA-02

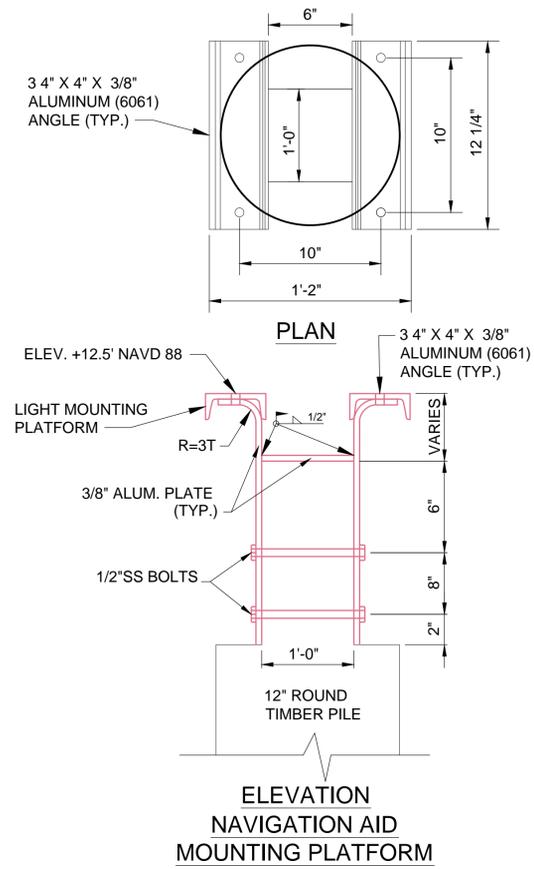
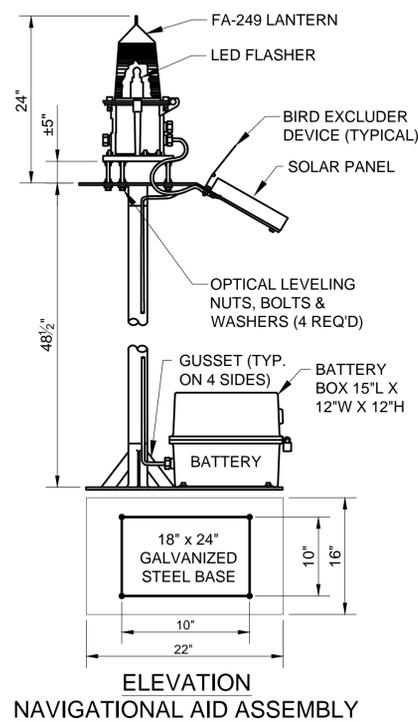
FEDERAL PROJECT NUMBER: BA-02

APPROVED BY: JPS

NAVIGATIONAL AID  
SUPPORT DETAILS

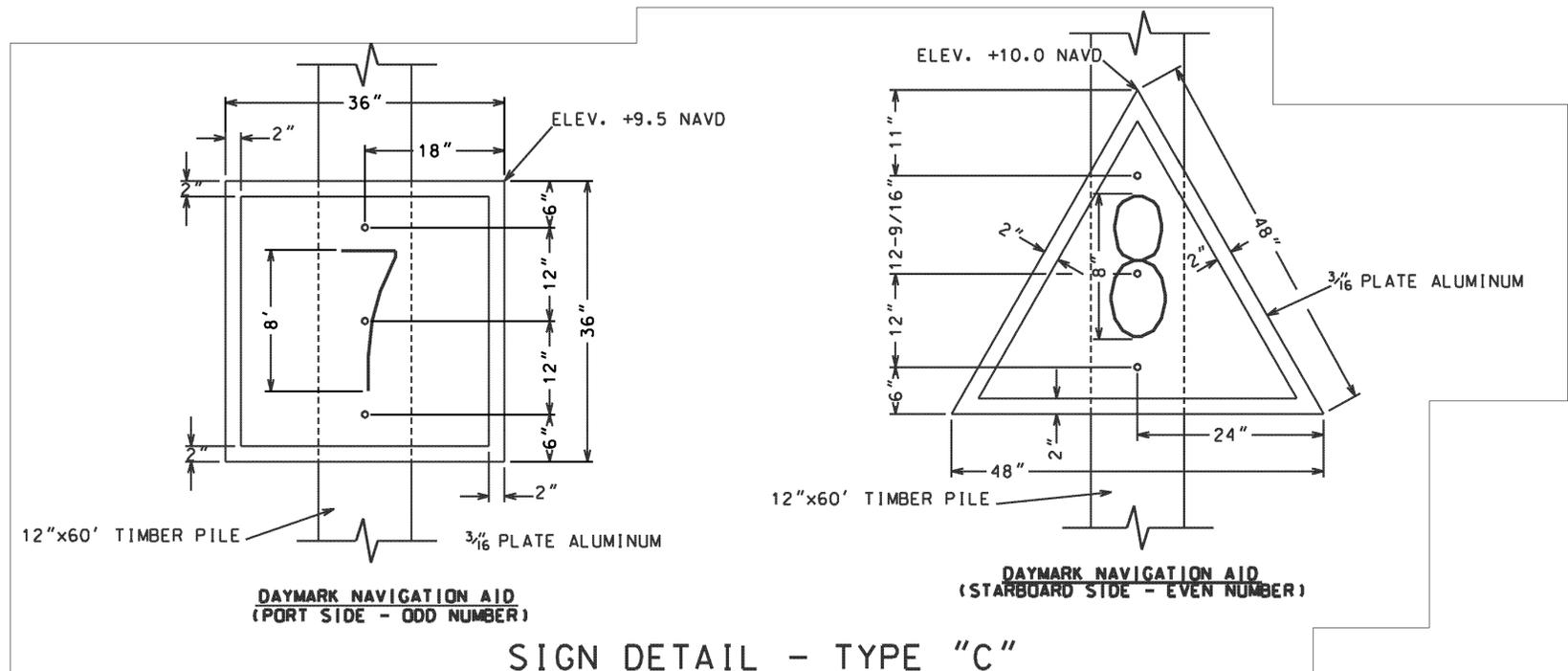
DATE: MARCH 2011

SHEET 34 OF 36



**CONSTRUCTION NOTES:**

1. CONTRACTOR SHALL REMOVE AND PROPERLY STORE EXISTING NAVIGATION LIGHTS. CONTRACTOR SHALL MAINTAIN REMOVED LIGHTS IN WORKING ORDER AND RE-INSTALL THE LIGHTS ON THE NEW DOLPHIN PILE STRUCTURES.
2. INSTALLATION HARDWARE (ie. BASEPLATES, BOLTS, ANGLES, ETC.) IN NEED OF REPLACEMENT SHALL BE REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
3. NOTCH ROUND TIMBER PILE FOR FLUSH ALUMINUM MOUNTING BRACKET ATTACHMENT.
4. HOLES IN ALUMINUM SHALL BE 1/16" OVERSIZE AND HOLES IN ROUND TIMBER PILE SHALL BE 1/8" OVERSIZE TO ACCOMMODATE CORRESPONDING BOLTS.
5. LIGHT PLATFORM SHALL BE CONNECTED TO SUPPORT FRAME ON TOP OF PILING WITH 1/2" ALUMINUM(6061) BOLTS, NUTS, & WASHERS. NUTS SHALL BE TACK WELDED TO FRAME AFTER ASSEMBLY. NUTS HOLDING SUPPORT FRAME TO PILING SHALL ALSO BE SECURED.



**NOTES:**

1. THE BORDER ON THE STARBOARD DAYMARK WILL BE A RETRO-REFLECTIVE MATERIAL OF RED COLOR. THE AREA INSIDE THE BORDERS WILL BE A RETRO-REFLECTIVE MATERIAL OF WHITE COLOR. THE NUMBERS WILL BE BLACK.
2. THE BORDER ON THE PORT SIDE DAYMARK WILL BE A RETRO-REFLECTIVE MATERIAL OF GREEN COLOR. THE AREA INSIDE THE BORDER WILL BE A RETRO-REFLECTIVE MATERIAL OF WHITE COLOR. THE NUMBERS WILL BE BLACK.
3. ALL DAYMARK NAVIGATION AIDS SHALL ABIDE BY U.S.C.G. REGULATIONS.
4. SIGNS SHALL BE SECURED TO TIMBER PILE WITH 3-5/8"x8" STAINLESS STEEL LAG SCREWS WITH 1-1/4" O.D. S.S. WASHER.

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GIWW TO CLOVELLY HYDRAULIC RESTORATION  
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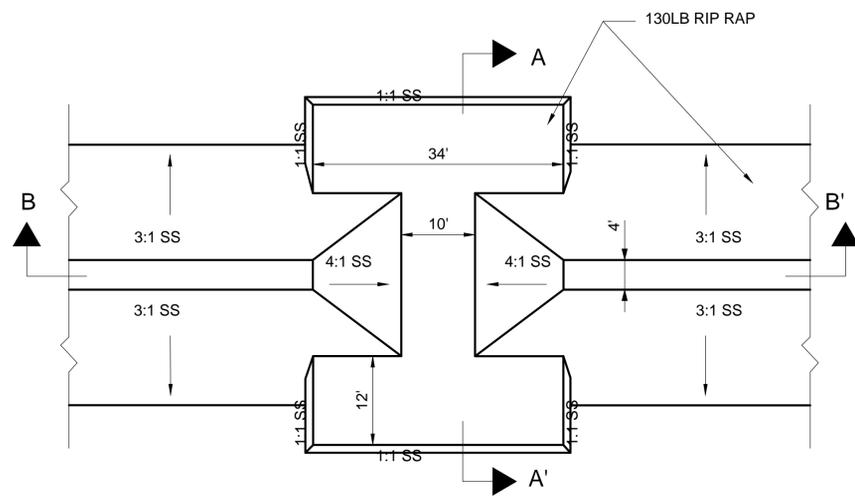
NAVIGATIONAL AID  
ASSEMBLY AND DETAILS

DATE: MARCH 2011

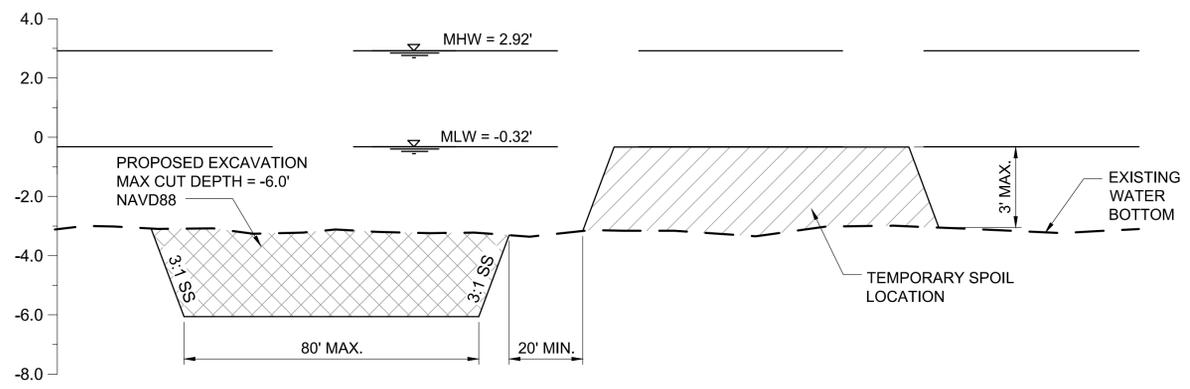
SHEET 35 OF 36

**GENERAL SHEET NOTES**

- ALL ELEVATIONS ARE IN NAVD 88 FEET.

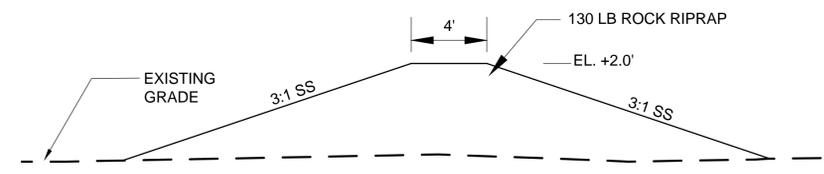


**FISH DIP PLAN**  
NTS



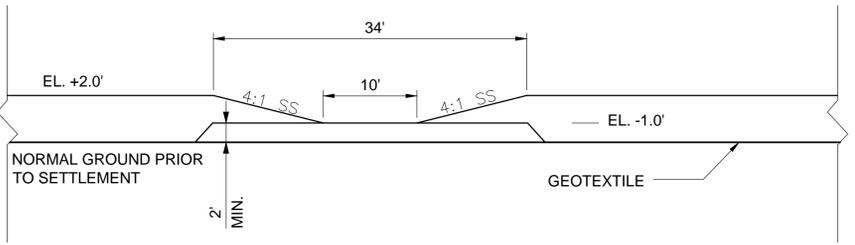
**TYPICAL ACCESS DREDGING**  
NTS

**B**  
VARIES

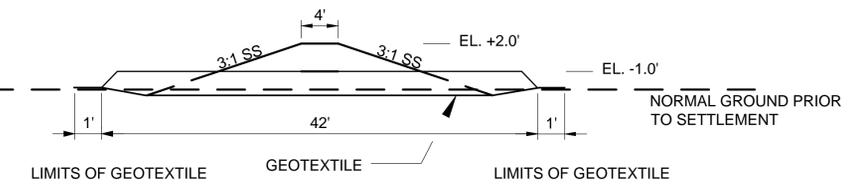


**LAKE RIM - TYPICAL SECTION**  
NTS

**C**  
VARIES



**FISH DIP PROFILE B-B'**  
NTS



**FISH DIP SECTION A-A'**  
NTS

**FISH DIP DETAIL**  
NTS

**A**  
VARIES

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**FISH DIP AND  
DREDGING DETAILS**

DATE: MARCH 2011

SHEET 36 OF 36