



DEPARTMENT OF THE ARMY
CORPS OF ENGINEERS, NEW ORLEANS DISTRICT
7400 LEAKE AVE
NEW ORLEANS LA 70118-3651

September 26, 2019

Operations Division
Central Evaluation Section

SUBJECT: MVN 2014-02026-CE

Louisiana Coastal Protection and Restoration Authority
Post Office Box 44027
Baton Rouge, Louisiana 70804

Dear Mr. Dobson:

Revised plans enclosed in twelve (12) sheets, furnished with your permit application dated June 5, 2019, covering additional dredge and fill activities to implement CWPPRA Project BA-0171 (Caminada Headland Back Barrier Marsh Creation Project) and will now combine the adjoining Caminada Headland Back Barrier Marsh Creation Increment 1 Project (BA-193) as one project, located on the Caminada Headland near Port Fourchon, Louisiana in Lafourche Parish, are approved and will be included in your plans for the work authorized by the Secretary of the Army in the permit dated June 13, 2019, from the District Commander at New Orleans, Louisiana, to dredge and deposit earthen material to implement CWPPRA Project BA-0171 as described above. These drawings will supersede your original permitted drawings.

The conditions to which the work is made subject, including the time limit for completion, remain in full force and effect.

A copy of this permit approval letter must be conspicuously displayed at the project site. Also, you must keep a copy of this signed letter, with attached drawings, at the project site until the work is completed.

BY AUTHORITY OF THE SECRETARY OF THE ARMY:

Martin S. Mayer
Chief, Regulatory Branch
for
Stephen F. Murphy
Colonel, U.S. Army
District Commander

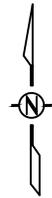
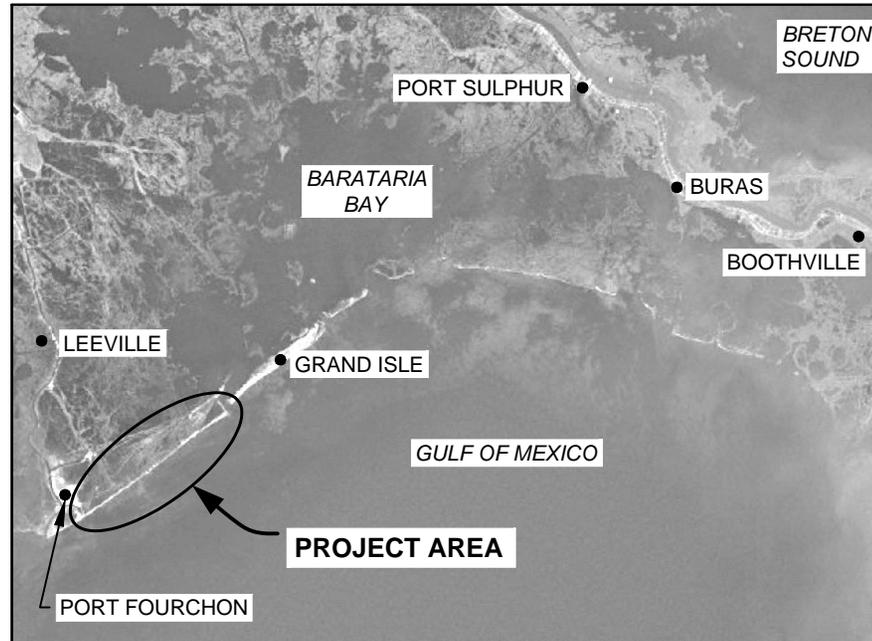
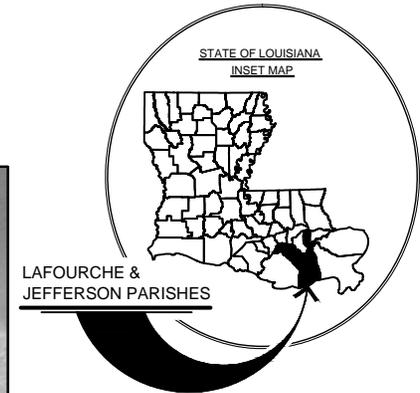
Enclosures

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3	BORROW AREA LAYOUT
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5	BORROW AREA TYPICAL SECTIONS
6 - 6A	MARSH CREATION AREA TYPICAL SECTIONS
7	DEWATERING AREA TYPICAL SECTION & GEOTEXTILE DETAILS
8	PIPELINE CROSSING DETAIL
9	SETTLEMENT PLATE DETAILS
10	NOTES

STATE OF LOUISIANA
COASTAL PROTECTION AND RESTORATION AUTHORITY

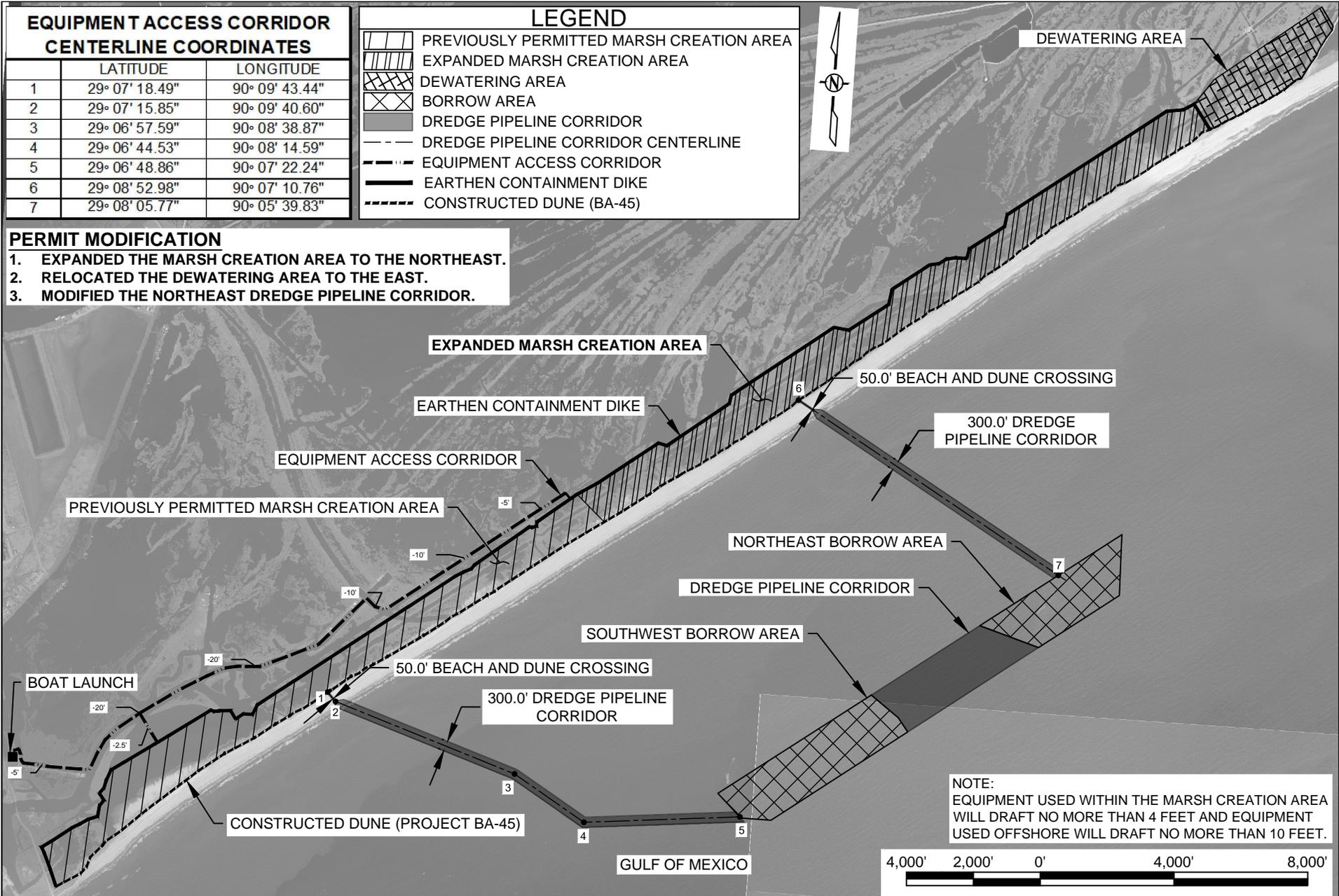
**CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT**
BA-0171
LAFOURCHE AND JEFFERSON PARISH, LOUISIANA



PERMIT MODIFICATION

- ADDED SHEETS 4A AND 6A TO THE SHEET INDEX.

APPLICATION BY: COASTAL PROTECTION & RESTORATION AUTHORITY P.O. BOX 44027 BATON ROUGE, LA 70804	COASTAL PROTECTION AND RESTORATION AUTHORITY 150 TERRACE AVENUE BATON ROUGE, LOUISIANA 70802	CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT	TITLE SHEET
DRAWN BY: K. CANTU	DESIGNED BY: A. TAYLOR, P.E. 041999	STATE PROJECT NUMBER: BA-0171	DATE: JUNE 2018 (REV. 4.2019)
APPROVED BY: S. HAYNES, P.E.		SHEET 1 OF 10	



**EQUIPMENT ACCESS CORRIDOR
CENTERLINE COORDINATES**

	LATITUDE	LONGITUDE
1	29° 07' 18.49"	90° 09' 43.44"
2	29° 07' 15.85"	90° 09' 40.60"
3	29° 06' 57.59"	90° 08' 38.87"
4	29° 06' 44.53"	90° 08' 14.59"
5	29° 06' 48.86"	90° 07' 22.24"
6	29° 08' 52.98"	90° 07' 10.76"
7	29° 08' 05.77"	90° 05' 39.83"

LEGEND

	PREVIOUSLY PERMITTED MARSH CREATION AREA
	EXPANDED MARSH CREATION AREA
	DEWATERING AREA
	BORROW AREA
	DREDGE PIPELINE CORRIDOR
	DREDGE PIPELINE CORRIDOR CENTERLINE
	EQUIPMENT ACCESS CORRIDOR
	EARTHEN CONTAINMENT DIKE
	CONSTRUCTED DUNE (BA-45)

PERMIT MODIFICATION

1. EXPANDED THE MARSH CREATION AREA TO THE NORTHEAST.
2. RELOCATED THE DEWATERING AREA TO THE EAST.
3. MODIFIED THE NORTHEAST DREDGE PIPELINE CORRIDOR.

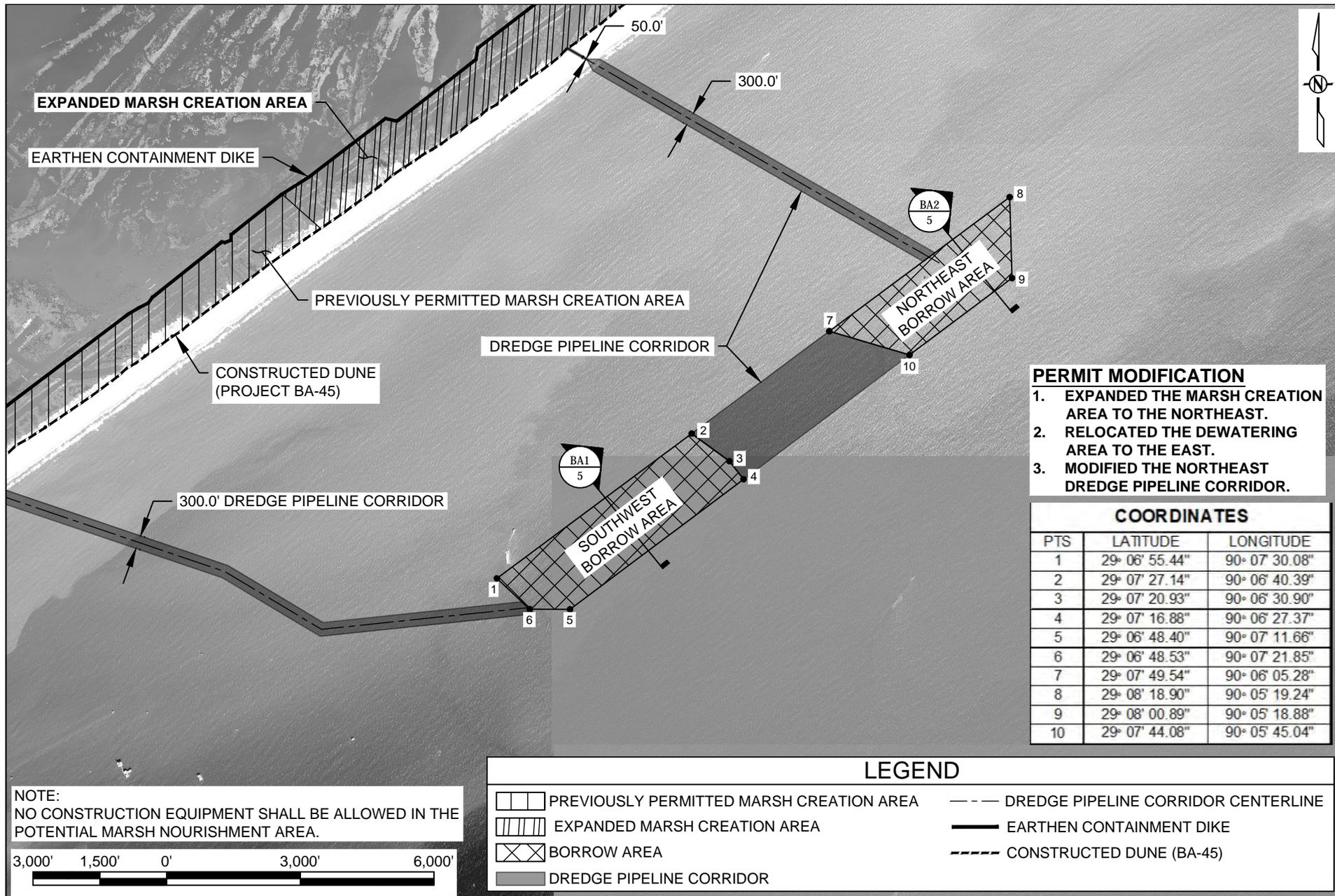
NOTE:
EQUIPMENT USED WITHIN THE MARSH CREATION AREA WILL DRAFT NO MORE THAN 4 FEET AND EQUIPMENT USED OFFSHORE WILL DRAFT NO MORE THAN 10 FEET.

APPLICATION BY:
COASTAL PROTECTION & RESTORATION AUTHORITY
P.O. BOX 44027
BATON ROUGE, LA 70804

COASTAL PROTECTION AND RESTORATION AUTHORITY
150 TERRACE AVENUE
BATON ROUGE, LOUISIANA 70802

CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT
STATE PROJECT NUMBER: BA-0171
APPROVED BY: S. HAYNES, P.E.

PROJECT LAYOUT
DATE: JUNE 2018 (REV. 4.2019)
SHEET 2 OF 10

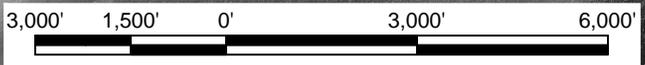


- PERMIT MODIFICATION**
1. EXPANDED THE MARSH CREATION AREA TO THE NORTHEAST.
 2. RELOCATED THE DEWATERING AREA TO THE EAST.
 3. MODIFIED THE NORTHEAST DREDGE PIPELINE CORRIDOR.

COORDINATES

PTS	LATITUDE	LONGITUDE
1	29° 06' 55.44"	90° 07' 30.08"
2	29° 07' 27.14"	90° 06' 40.39"
3	29° 07' 20.93"	90° 06' 30.90"
4	29° 07' 16.88"	90° 06' 27.37"
5	29° 06' 48.40"	90° 07' 11.66"
6	29° 06' 48.53"	90° 07' 21.85"
7	29° 07' 49.54"	90° 06' 05.28"
8	29° 08' 18.90"	90° 05' 19.24"
9	29° 08' 00.89"	90° 05' 18.88"
10	29° 07' 44.08"	90° 05' 45.04"

NOTE:
NO CONSTRUCTION EQUIPMENT SHALL BE ALLOWED IN THE POTENTIAL MARSH NOURISHMENT AREA.



LEGEND

	PREVIOUSLY PERMITTED MARSH CREATION AREA		DREDGE PIPELINE CORRIDOR CENTERLINE
	EXPANDED MARSH CREATION AREA		EARTHEN CONTAINMENT DIKE
	BORROW AREA		CONSTRUCTED DUNE (BA-45)
	DREDGE PIPELINE CORRIDOR		

APPLICATION BY:
COASTAL PROTECTION & RESTORATION AUTHORITY
P.O. BOX 44027
BATON ROUGE, LA 70804

DRAWN BY: K. CANTU

COASTAL PROTECTION AND RESTORATION AUTHORITY
150 TERRACE AVENUE
BATON ROUGE, LOUISIANA 70802

DESIGNED BY: A. TAYLOR, P.E. 041999

CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT

STATE PROJECT NUMBER: BA-0171

APPROVED BY: S. HAYNES, P.E.

BORROW AREA LAYOUT

DATE: JUNE 2018 (REV. 4.2019)

SHEET 3 OF 10

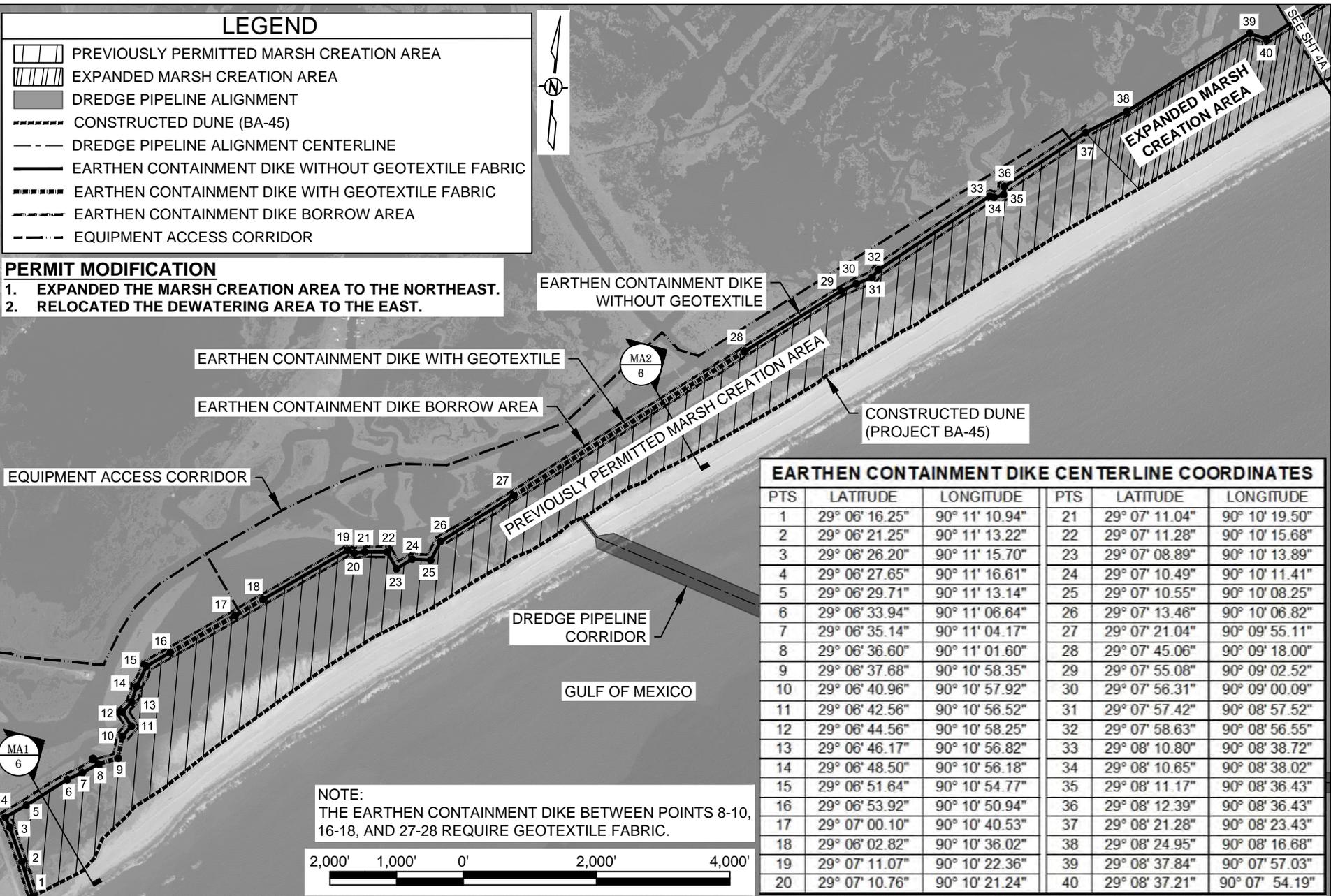
LEGEND

-  PREVIOUSLY PERMITTED MARSH CREATION AREA
-  EXPANDED MARSH CREATION AREA
-  DREDGE PIPELINE ALIGNMENT
-  CONSTRUCTED DUNE (BA-45)
-  DREDGE PIPELINE ALIGNMENT CENTERLINE
-  EARTHEN CONTAINMENT DIKE WITHOUT GEOTEXTILE FABRIC
-  EARTHEN CONTAINMENT DIKE WITH GEOTEXTILE FABRIC
-  EARTHEN CONTAINMENT DIKE BORROW AREA
-  EQUIPMENT ACCESS CORRIDOR



PERMIT MODIFICATION

1. EXPANDED THE MARSH CREATION AREA TO THE NORTHEAST.
2. RELOCATED THE DEWATERING AREA TO THE EAST.



EARTHEN CONTAINMENT DIKE CENTERLINE COORDINATES

PTS	LATITUDE	LONGITUDE	PTS	LATITUDE	LONGITUDE
1	29° 06' 16.25"	90° 11' 10.94"	21	29° 07' 11.04"	90° 10' 19.50"
2	29° 06' 21.25"	90° 11' 13.22"	22	29° 07' 11.28"	90° 10' 15.68"
3	29° 06' 26.20"	90° 11' 15.70"	23	29° 07' 08.89"	90° 10' 13.89"
4	29° 06' 27.65"	90° 11' 16.61"	24	29° 07' 10.49"	90° 10' 11.41"
5	29° 06' 29.71"	90° 11' 13.14"	25	29° 07' 10.55"	90° 10' 08.25"
6	29° 06' 33.94"	90° 11' 06.64"	26	29° 07' 13.46"	90° 10' 06.82"
7	29° 06' 35.14"	90° 11' 04.17"	27	29° 07' 21.04"	90° 09' 55.11"
8	29° 06' 36.60"	90° 11' 01.60"	28	29° 07' 45.06"	90° 09' 18.00"
9	29° 06' 37.68"	90° 10' 58.35"	29	29° 07' 55.08"	90° 09' 02.52"
10	29° 06' 40.96"	90° 10' 57.92"	30	29° 07' 56.31"	90° 09' 00.09"
11	29° 06' 42.56"	90° 10' 56.52"	31	29° 07' 57.42"	90° 08' 57.52"
12	29° 06' 44.56"	90° 10' 58.25"	32	29° 07' 58.63"	90° 08' 56.55"
13	29° 06' 46.17"	90° 10' 56.82"	33	29° 08' 10.80"	90° 08' 38.72"
14	29° 06' 48.50"	90° 10' 56.18"	34	29° 08' 10.65"	90° 08' 38.02"
15	29° 06' 51.64"	90° 10' 54.77"	35	29° 08' 11.17"	90° 08' 36.43"
16	29° 06' 53.92"	90° 10' 50.94"	36	29° 08' 12.39"	90° 08' 36.43"
17	29° 07' 00.10"	90° 10' 40.53"	37	29° 08' 21.28"	90° 08' 23.43"
18	29° 06' 02.82"	90° 10' 36.02"	38	29° 08' 24.95"	90° 08' 16.68"
19	29° 07' 11.07"	90° 10' 22.36"	39	29° 08' 37.84"	90° 07' 57.03"
20	29° 07' 10.76"	90° 10' 21.24"	40	29° 08' 37.21"	90° 07' 54.19"

NOTE:
THE EARTHEN CONTAINMENT DIKE BETWEEN POINTS 8-10,
16-18, AND 27-28 REQUIRE GEOTEXTILE FABRIC.



APPLICATION BY:
COASTAL PROTECTION & RESTORATION AUTHORITY
P.O. BOX 44027
BATON ROUGE, LA 70804

COASTAL PROTECTION AND RESTORATION AUTHORITY
150 TERRACE AVENUE
BATON ROUGE, LOUISIANA 70802

CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT

MARSH CREATION AREA LAYOUT

DRAWN BY: K. CANTU

DESIGNED BY: A. TAYLOR, P.E. 041999

STATE PROJECT NUMBER: BA-0171

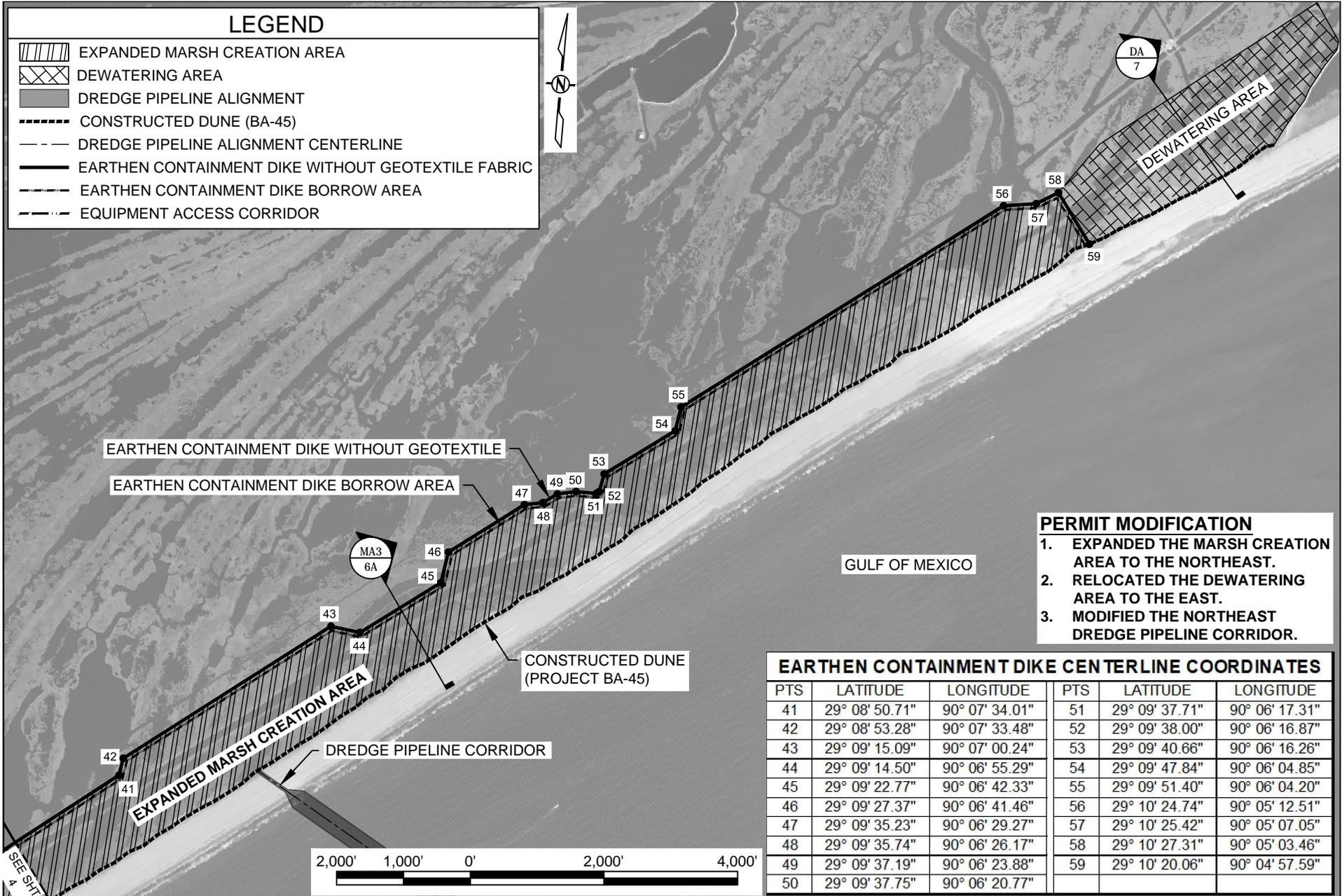
DATE: JUNE 2018 (REV. 4.2019)

APPROVED BY: S. HAYNES, P.E.

SHEET 4 OF 10

LEGEND

-  EXPANDED MARSH CREATION AREA
-  DEWATERING AREA
-  DREDGE PIPELINE ALIGNMENT
-  CONSTRUCTED DUNE (BA-45)
-  DREDGE PIPELINE ALIGNMENT CENTERLINE
-  EARTHEN CONTAINMENT DIKE WITHOUT GEOTEXTILE FABRIC
-  EARTHEN CONTAINMENT DIKE BORROW AREA
-  EQUIPMENT ACCESS CORRIDOR



- PERMIT MODIFICATION**
1. EXPANDED THE MARSH CREATION AREA TO THE NORTHEAST.
 2. RELOCATED THE DEWATERING AREA TO THE EAST.
 3. MODIFIED THE NORTHEAST DREDGE PIPELINE CORRIDOR.

EARTHEN CONTAINMENT DIKE CENTERLINE COORDINATES

PTS	LATITUDE	LONGITUDE	PTS	LATITUDE	LONGITUDE
41	29° 08' 50.71"	90° 07' 34.01"	51	29° 09' 37.71"	90° 06' 17.31"
42	29° 08' 53.28"	90° 07' 33.48"	52	29° 09' 38.00"	90° 06' 16.87"
43	29° 09' 15.09"	90° 07' 00.24"	53	29° 09' 40.66"	90° 06' 16.26"
44	29° 09' 14.50"	90° 06' 55.29"	54	29° 09' 47.84"	90° 06' 04.85"
45	29° 09' 22.77"	90° 06' 42.33"	55	29° 09' 51.40"	90° 06' 04.20"
46	29° 09' 27.37"	90° 06' 41.46"	56	29° 10' 24.74"	90° 05' 12.51"
47	29° 09' 35.23"	90° 06' 29.27"	57	29° 10' 25.42"	90° 05' 07.05"
48	29° 09' 35.74"	90° 06' 26.17"	58	29° 10' 27.31"	90° 05' 03.46"
49	29° 09' 37.19"	90° 06' 23.88"	59	29° 10' 20.06"	90° 04' 57.59"
50	29° 09' 37.75"	90° 06' 20.77"			

APPLICATION BY:
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COASTAL PROTECTION AND RESTORATION AUTHORITY
 150 TERRACE AVENUE
 BATON ROUGE, LOUISIANA 70802

CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT

STATE PROJECT NUMBER: BA-0171

MARSH CREATION AREA LAYOUT

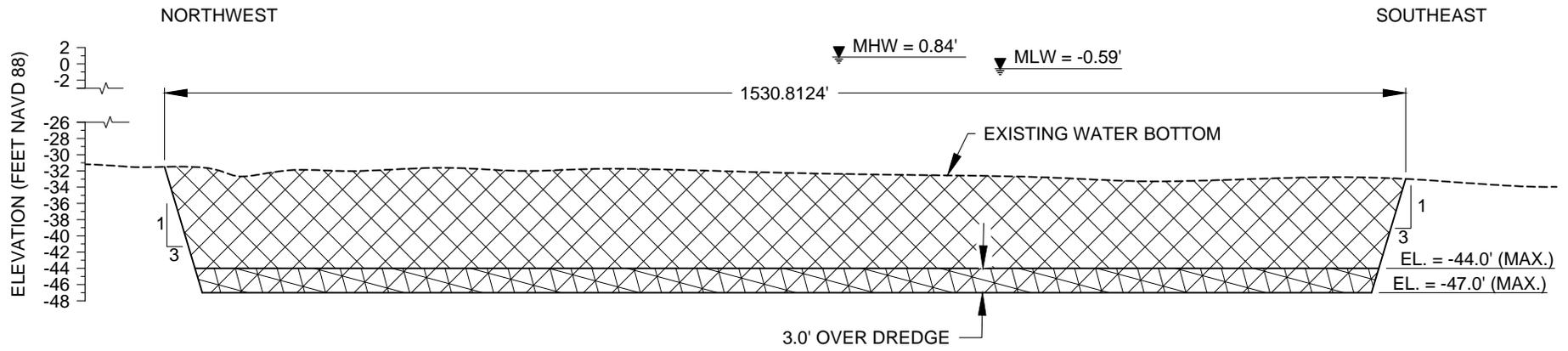
DATE: APRIL 2019

SHEET 4A OF 10

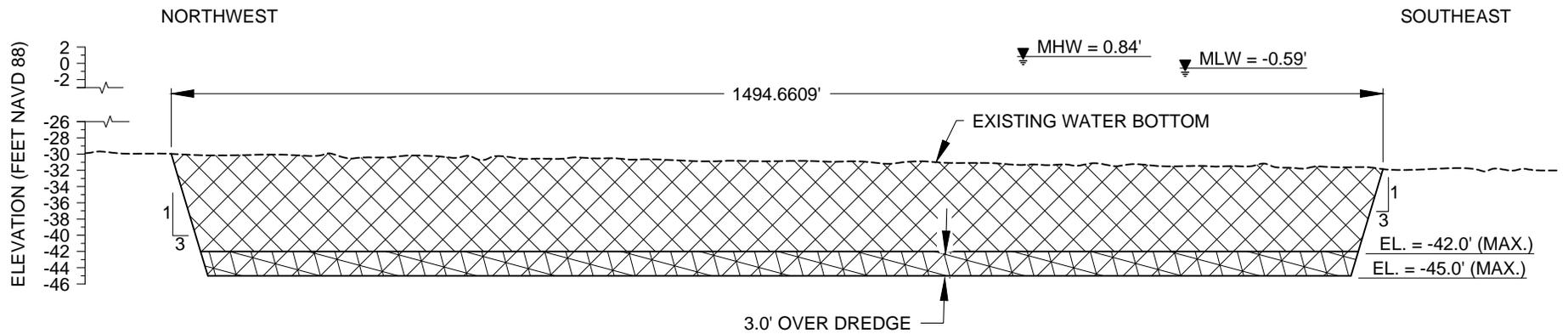
DRAWN BY: K. CANTU

DESIGNED BY: A. TAYLOR, P.E. 041999

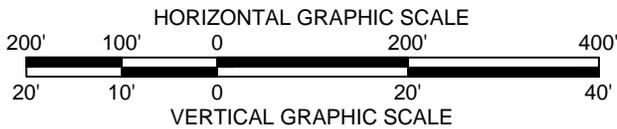
APPROVED BY: S. HAYNES, P.E.



BA1
3 **TYPICAL SECTION - BORROW AREA**

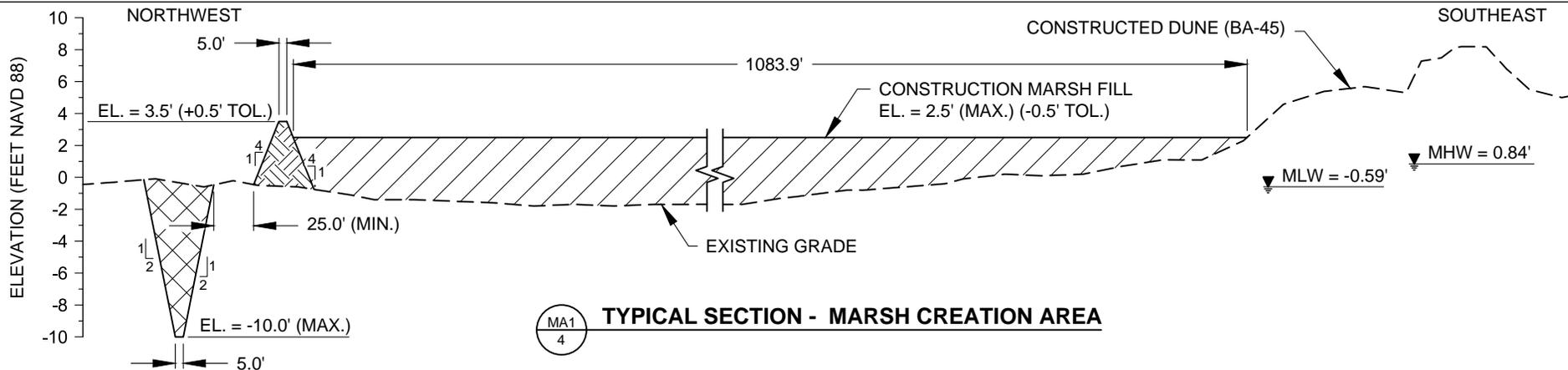


BA2
3 **TYPICAL SECTION - BORROW AREA**

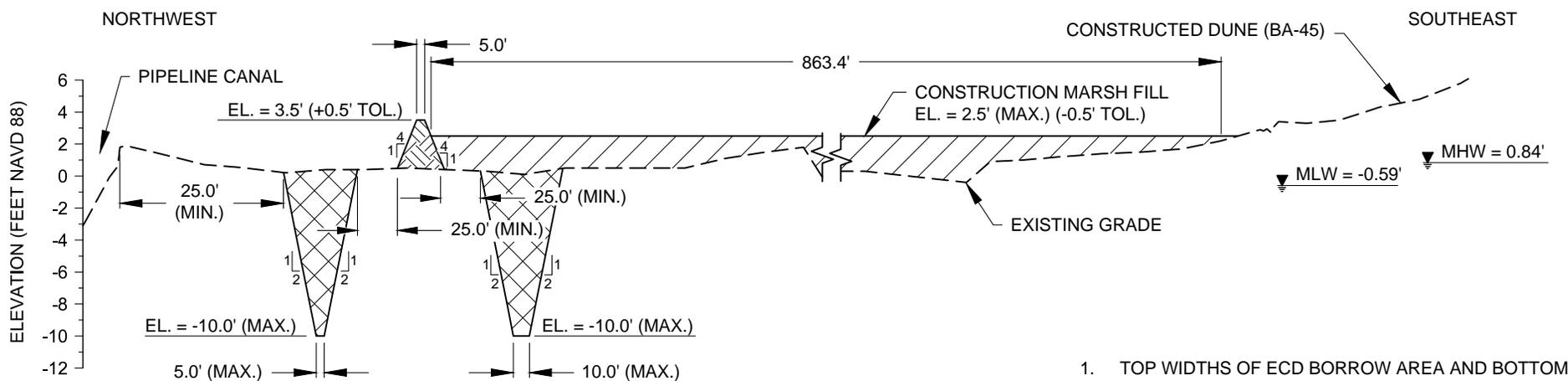


LEGEND	
	BORROW AREA
	OVER DREDGE
	EXISTING WATER BOTTOM

APPLICATION BY: COASTAL PROTECTION & RESTORATION AUTHORITY P.O. BOX 44027 BATON ROUGE, LA 70804	COASTAL PROTECTION AND RESTORATION AUTHORITY 150 TERRACE AVENUE BATON ROUGE, LOUISIANA 70802	CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT	BORROW AREA TYPICAL SECTIONS
		STATE PROJECT NUMBER: BA-0171	DATE: JUNE 2018
DRAWN BY: K. CANTU	DESIGNED BY: A. TAYLOR, P.E. 041999	APPROVED BY: S. HAYNES, P.E.	SHEET 5 OF 10



MA1
4
TYPICAL SECTION - MARSH CREATION AREA

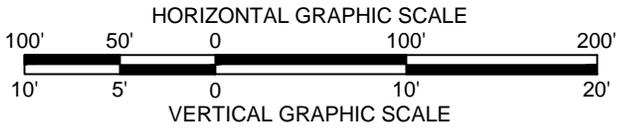


MA2
4
TYPICAL SECTION - MARSH CREATION AREA

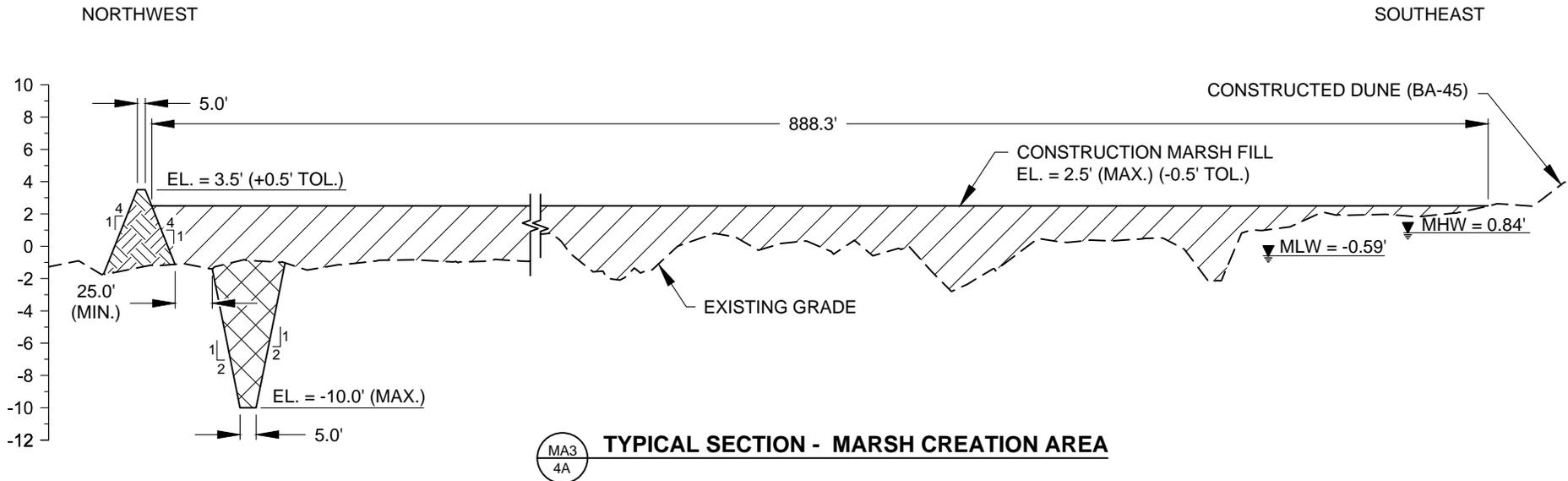
1. TOP WIDTHS OF ECD BORROW AREA AND BOTTOM WIDTH OF ECD VARY DEPENDENT ON FIELD CONDITIONS.

LEGEND	
	MARSH CREATION AREA
	EARTHEN CONTAINMENT DIKE
	EARTHEN CONTAINMENT DIKE BORROW AREA
	GEOTEXTILE FABRIC
	EXISTING GROUND

- PERMIT MODIFICATION**
1. REVISED EARTHEN CONTAINMENT DIKE CROWN ELEVATION TO 3.5'.
 2. REVISED CONSTRUCTION MARSH FILL ELEVATION TO 2.5'.

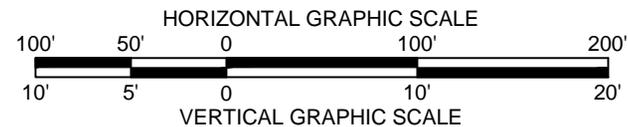


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DRAWN BY: K. CANTU	DESIGNED BY: A. TAYLOR, P.E. 041999	APPROVED BY: S. HAYNES, P.E.	SHEET 6 OF 10



PERMIT MODIFICATION

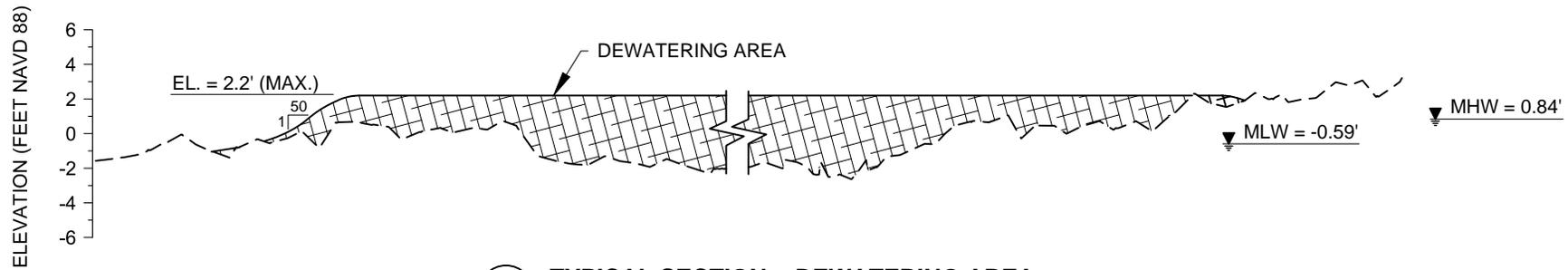
1. TYPICAL SECTION FOR THE EXPANDED PORTION OF THE MARSH CREATION AREA.



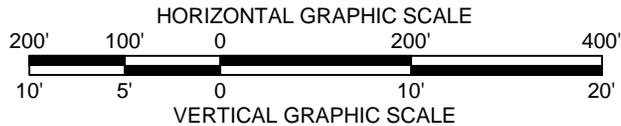
1. TOP WIDTHS OF ECD BORROW AREA AND BOTTOM WIDTH OF ECD VARY DEPENDENT ON FIELD CONDITIONS.

LEGEND	
	MARSH CREATION AREA
	EARTHEN CONTAINMENT DIKE
	EARTHEN CONTAINMENT DIKE BORROW AREA
	GEOTEXTILE FABRIC
	EXISTING GROUND

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		STATE PROJECT NUMBER: BA-0171	DATE: APRIL 2019
DRAWN BY: K. CANTU	DESIGNED BY: A. TAYLOR, P.E. 041999	APPROVED BY: S. HAYNES, P.E.	SHEET 6A OF 10

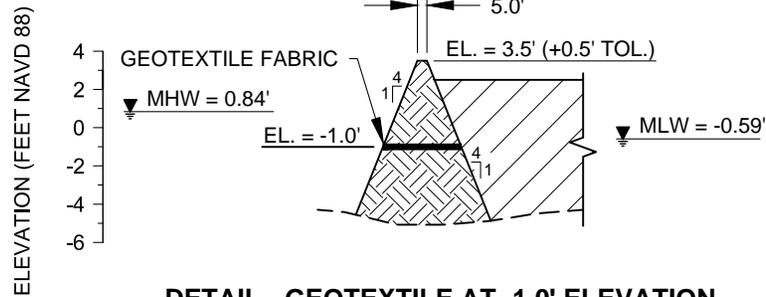


TYPICAL SECTION - DEWATERING AREA

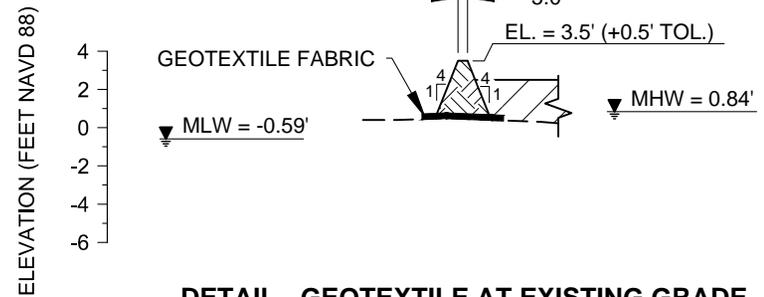


NOTE:

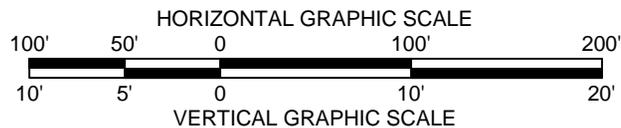
1. THE DEWATERING AREA SHALL BE PRIMARILY USED FOR DECANTING WATER FROM THE MCA. NO CONSTRUCTION SHALL DIRECTLY OCCUR WITHIN THIS AREA.



DETAIL - GEOTEXTILE AT -1.0' ELEVATION



DETAIL - GEOTEXTILE AT EXISTING GRADE

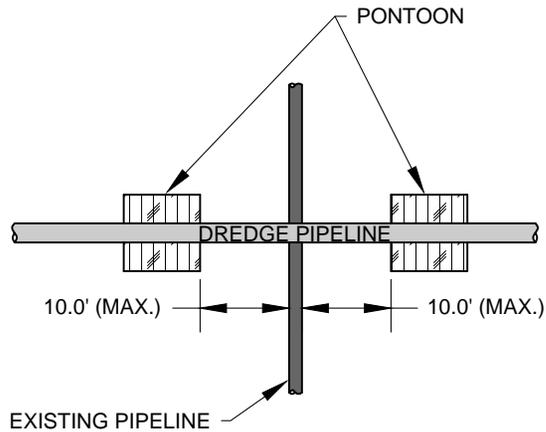


PERMIT MODIFICATION

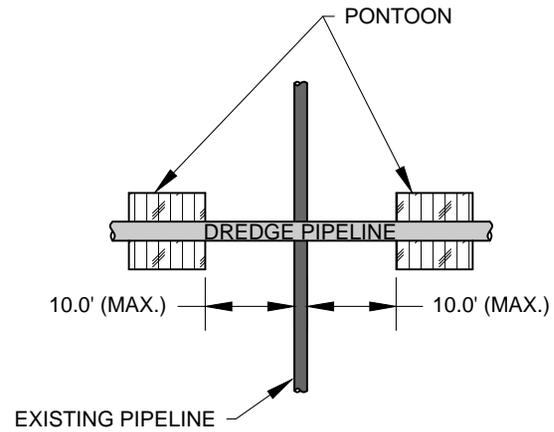
1. REVISED EARTHEN CONTAINMENT DIKE CROWN ELEVATION TO 3.5'.
2. REVISED CONSTRUCTION MARSH FILL ELEVATION TO 2.5'.

LEGEND	
	DEWATERING AREA
	MARSH CREATION FILL
	EARTHEN CONTAINMENT DIKE
	GEOTEXTILE FABRIC
	EXISTING GROUND

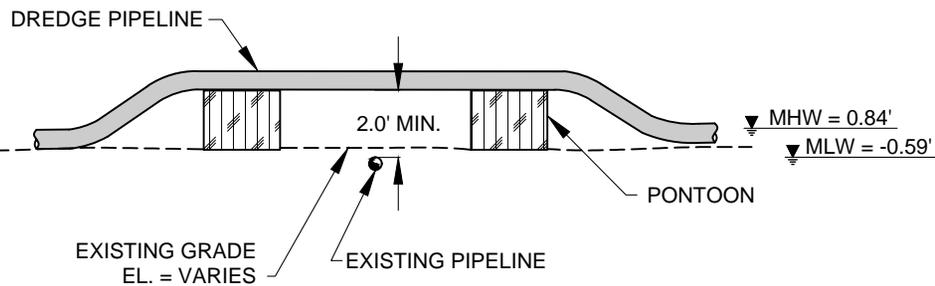
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		STATE PROJECT NUMBER: BA-0171	DATE: JUNE 2018 (REV. 4.2019)
DRAWN BY: K. CANTU	DESIGNED BY: A. TAYLOR, P.E. 041999	APPROVED BY: S. HAYNES, P.E.	SHEET 7 OF 10



PLAN VIEW

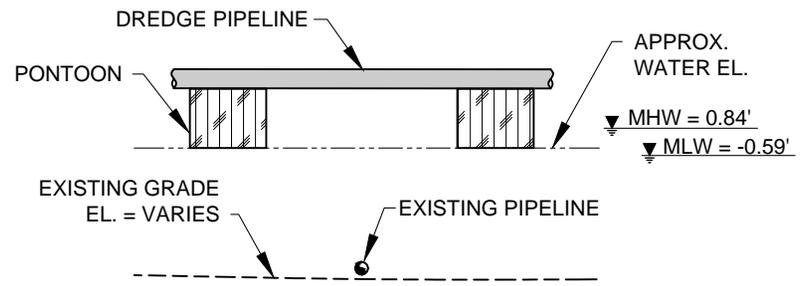


PLAN VIEW



SECTION VIEW

**MARSH PIPELINE CROSSING DETAIL
N.T.S**

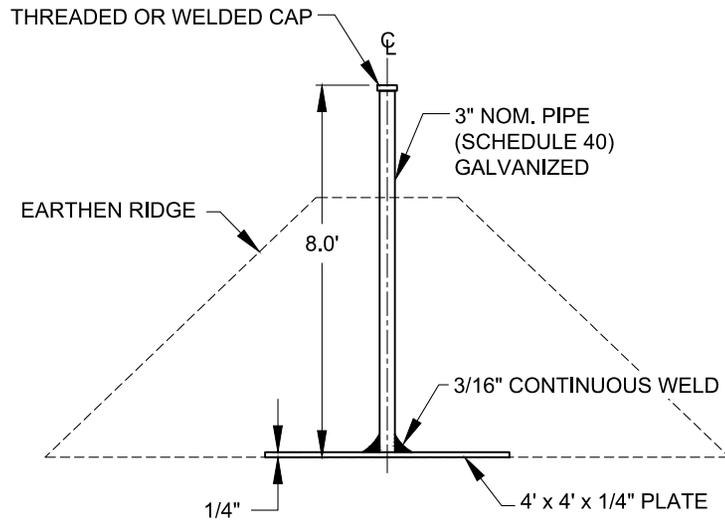
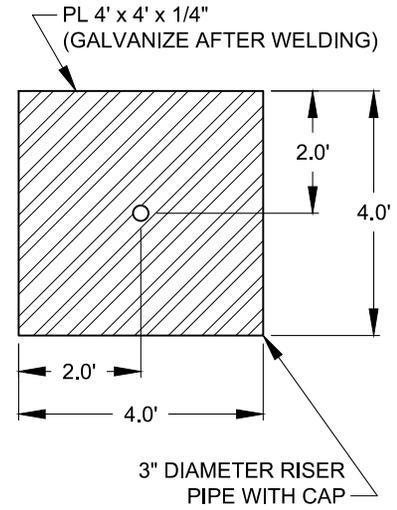
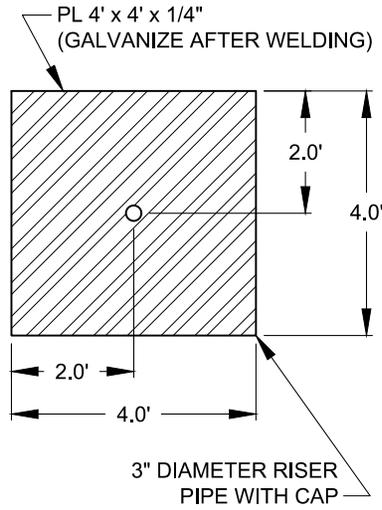


SECTION VIEW

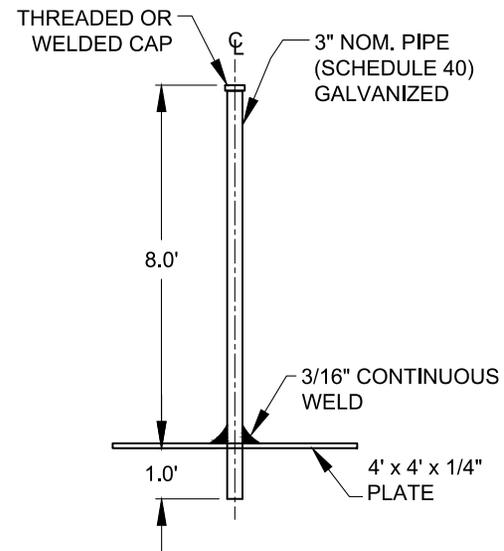
**OFFSHORE PIPELINE CROSSING DETAIL
N.T.S**

LEGEND	
	DREDGE PIPELINE
	PONTON SUPPORT
	EXISTING GROUND

APPLICATION BY: COASTAL PROTECTION & RESTORATION AUTHORITY P.O. BOX 44027 BATON ROUGE, LA 70804	COASTAL PROTECTION AND RESTORATION AUTHORITY 150 TERRACE AVENUE BATON ROUGE, LOUISIANA 70802	CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT	PIPELINE CROSSING DETAIL
DRAWN BY: K. CANTU	DESIGNED BY: A. TAYLOR, P.E. 041999	STATE PROJECT NUMBER: BA-0171	DATE: JUNE 2018
		APPROVED BY: S. HAYNES, P.E.	SHEET 8 OF 10



**EARTHEN DIKE
SETTLEMENT PLATE**
NOT TO SCALE



**MARSH CREATION
SETTLEMENT PLATE**
NOT TO SCALE

APPLICATION BY:
COASTAL PROTECTION & RESTORATION AUTHORITY
P.O. BOX 44027
BATON ROUGE, LA 70804

**COASTAL PROTECTION AND
RESTORATION AUTHORITY**
150 TERRACE AVENUE
BATON ROUGE, LOUISIANA 70802

CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT

SETTLEMENT PLATE
DETAILS

STATE PROJECT NUMBER: BA-0171

DATE: JUNE 2018

DRAWN BY: K. CANTU

DESIGNED BY: A. TAYLOR, P.E. 041999

APPROVED BY: S. HAYNES, P.E.

SHEET 9 OF 10

1. AS-BUILT DRAWINGS AND/OR PLATS SHALL HAVE WRITTEN ON THEM THE DATE OF COMPLETION OF SAID ACTIVITIES AND SHALL BE SUBMITTED TO THE LOUISIANA DEPARTMENT OF NATURAL RESOURCES, OFFICE OF COASTAL MANAGEMENT, P.O. BOX 44487, BATON ROUGE, LA 70804-4487 WITHIN 30 DAYS FOLLOWING PROJECT COMPLETION.
2. ALL STRUCTURES BUILT UNDER THE AUTHORIZATION AND CONDITIONS OF THIS PERMIT SHALL BE REMOVED FROM THE SITE WITHIN 120 DAYS OF ABANDONMENT OF THE FACILITIES FOR THE HEREIN PERMITTED USE, OR WHEN THESE STRUCTURES FALL INTO A STATE OF DISREPAIR SUCH THAT THEY CAN NO LONGER FUNCTION AS INTENDED. THIS CONDITION DOES NOT PRECLUDE THE NECESSITY FOR REVISING THE CURRENT PERMIT OR OBTAINING A SEPARATE COASTAL USE PERMIT, SHOULD ONE BE REQUIRED, FOR SUCH REMOVAL ACTIVITIES.
3. STRUCTURES MUST ALSO BE MARKED/LIGHTED IN ACCORDANCE WITH U.S. COAST GUARD REGULATIONS.
4. IN ORDER TO ENSURE THE SAFETY OF ALL PARTIES, THE PERMITTEE SHALL CONTACT THE LOUISIANA ONE CALL SYSTEM (1-800-272-3020) A MINIMUM OF 48 HOURS PRIOR TO THE COMMENCEMENT OF ANY EXCAVATION (DIGGING, DREDGING, JETTING, ETC.) OR DEMOLITION ACTIVITY.
5. TRACKED EQUIPMENT SHALL HAVE A MAXIMUM DIMENSION OF 34 FEET LONG AND 15 FEET WIDE.
6. THE CONTRACTOR SHALL DECANT SUPERNATANT WATER INTO THE DEWATERING AREA USING STRUCTURES SUCH AS WEIRS OR SPILL BOXES. THE LOSS OF FINE-GRAINED MATERIAL MAY BE FURTHER REDUCED THROUGH THE USE OF INTERNAL TRAINING DIKES, HAY BALES, OR SILT FENCES.

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