

JOINT PUBLIC NOTICE

April 6, 2015

United States Army
Corps of Engineers
New Orleans District
Regulatory Branch
Post Office Box 60267
New Orleans, Louisiana 70160-0267

(504) 862-2225
Brad.LaBorde@usace.army.mil
Project Manager
Brad LaBorde
Permit Application Number
MVN 2010-2326 EOO

State of Louisiana
Department of Environmental Quality
ATTN: Water Quality Certifications
Post Office Box 4313
Baton Rouge, Louisiana 70821-4313

(225) 219-3225

Project Manager
Elizabeth Johnson
WQC Application Number
WQC 150402-01

Interested parties are hereby notified that a permit application has been received by the New Orleans District of the U.S. Army Corps of Engineers pursuant to: [X] Section 10 of the Rivers and Harbors Act of March 3, 1899 (30 Stat. 1151; 33 USC 403); and/or [X] Section 404 of the Clean Water Act (86 Stat. 816; 33 USC 1344).

Application has also been made to the Louisiana Department of Environmental Quality, Water Quality Certifications, for a Water Quality Certification (WQC) in accordance with statutory authority contained in LRS30:2047 A(3), and provisions of Section 401 of the Clean Water Act (P.L.95-17).

Permit Modification: Ellington Phase III Westbank Hurricane Protection Levee in Saint Charles Parish, Louisiana

NAME OF APPLICANT: Saint Charles Parish Department of Public Works, % GCR, Inc.,
Attn: Lucas Lilly, 2021 Lakeshore Drive, Suite 500, New Orleans, Louisiana, 70122.

LOCATION OF WORK: Adjacent to the Mimosa Park and Holder Estates communities of Luling and Boutee, in Saint Charles Parish, Louisiana, as shown on the enclosed drawings.

Hydrologic Unit Code: 08090203 - East Central Louisiana Coastal
Work start - Latitude: 29.889994, Longitude: -90.388331
Work end - Latitude: 29.889664, Longitude: -90.351003

PROJECT SUMMARY: The permit for Ellington Phase III was first authorized on March 6, 2013. It authorized 51 acres of direct wetland impacts to construct a levee right-of-way (ROW) ranging between 179-feet to 235-feet in width and +7 feet in elevation.

CHARACTER OF WORK: Clear, grade, excavate, and deposit fill for the construction of an earthen levee, drainage canals, a pumping station, gated culverts, floodwalls, pipeline crossings, and existing pump station discharge pipe extensions. Construction of the 17,000 foot long levee and appurtenances will tie into the existing Magnolia Ridge and Willow Ridge Levees. This permit modification is to expand the ROW footprint (20 to 40 feet in most areas) to include an additional 9.3 acres of jurisdictional wetlands in order to construct the earthen levee to +12.5 feet and floodwalls to +14.5 feet (NAVD) in elevation. The ROW widening and increase in elevation is due to changes in

100-year storm protection requirements. Saint Charles Parish proposes to contract with an approved compensatory mitigation bank to offset impacts associated with this project.

The comment period for the Department of the Army Permit and the Louisiana Department of Environmental Quality WQC will close **20 days** from the date of this joint public notice. Written comments, including suggestions for modifications or objections to the proposed work, stating reasons thereof, are being solicited from anyone having interest in this permit and/or this WQC request and must be mailed so as to be received before or by the last day of the comment period. Letters concerning the Corps of Engineers permit application must reference the applicant's name and the Permit Application Number, and be mailed to the Corps of Engineers at the address above, **ATTENTION: REGULATORY BRANCH**. **Individuals or parties may request an extension of time in which to comment on the proposed work by writing or e-mailing the Corps of Engineers Project Manager listed above. Any request must be specific and substantively supportive of the requested extension, and received by this office prior to the end of the initial comment period. The Section Chief will review the request and the requestor will be promptly notified of the decision to grant or deny the request. If granted, the time extension will be continuous to the initial comment period and, inclusive of the initial comment period, will not exceed a total of 30 calendar days.**

The application for this proposed project is on file with the Louisiana Department of Environmental Quality and may be examined during weekdays between 8:00 a.m. and 4:30 p.m. Copies may be obtained upon payment of costs of reproduction.

Corps of Engineers Permit Criteria

The decision whether to issue a permit will be based on an evaluation of the probable impacts, including cumulative impacts of the proposed activity on the public interest. That decision will reflect the national concern for both protection and utilization of important resources. The benefit which reasonably may be expected to accrue from the proposal must be balanced against its reasonably foreseeable detriments. All factors which may be relevant to the proposal will be considered including the cumulative effects thereof; among those are conservation, economics, aesthetics, general environmental concerns, wetlands, historic properties, fish and wildlife values, flood hazards, floodplain values, land use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food and fiber production, mineral needs, considerations of property ownership and, in general, the needs and welfare of the people.

The U.S. Army Corps of Engineers is soliciting comments from the public, federal, state, and local agencies and officials, Indian Tribes, and other interested parties in order to consider and evaluate the impacts of this proposed activity. Any comments received will be considered by the U.S. Army Corps of Engineers to determine whether to make, modify, condition, or deny a permit for this proposal. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and other public interest factors listed above. Comments are used in the preparation of an Environmental Assessment and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity.

The New Orleans District is unaware of properties listed on the National Register of Historic Places near the proposed work. The possibility exists that the proposed work may damage or destroy presently unknown archeological, scientific, prehistorical, historical sites, or data. Issuance of this public notice solicits input from the State Archeologist and State Historic Preservation Officer regarding potential impacts to cultural resources.

Our initial finding is that the proposed work would not affect any species listed as endangered by the U.S. Department of Commerce, nor affect any habitat designated as critical to the survival and recovery of any endangered species.

This notice initiates the Essential Fish Habitat (EFH) consultation requirements of the Magnuson-Stevens Fishery Conservation and Management Act. The applicant's proposal would result in the destruction or alteration of **9.3** acres of EFH utilized by various life stages of red drum and penaeid shrimp. Our initial determination is that the proposed action would not have a substantial adverse impact on EFH or federally managed fisheries in the Gulf of Mexico. Our final determination relative to project impacts and the need for mitigation measures is subject to review by and coordination with the National Marine Fisheries Service.

If the proposed work involves deposits of dredged or fill material into navigable waters, the evaluation of the probable impacts will include the application of guidelines established by the Administrator of the Environmental Protection Agency. Also, a certification that the proposed activity will not violate applicable water quality standards will be required from the Department of Environmental Quality, Water Quality Certifications, before a permit is issued.

Any person may request, in writing, within the comment period specified in this notice, that a public hearing be held to consider this application. Requests for public hearings shall state, with particularity, the reasons for holding a public hearing.

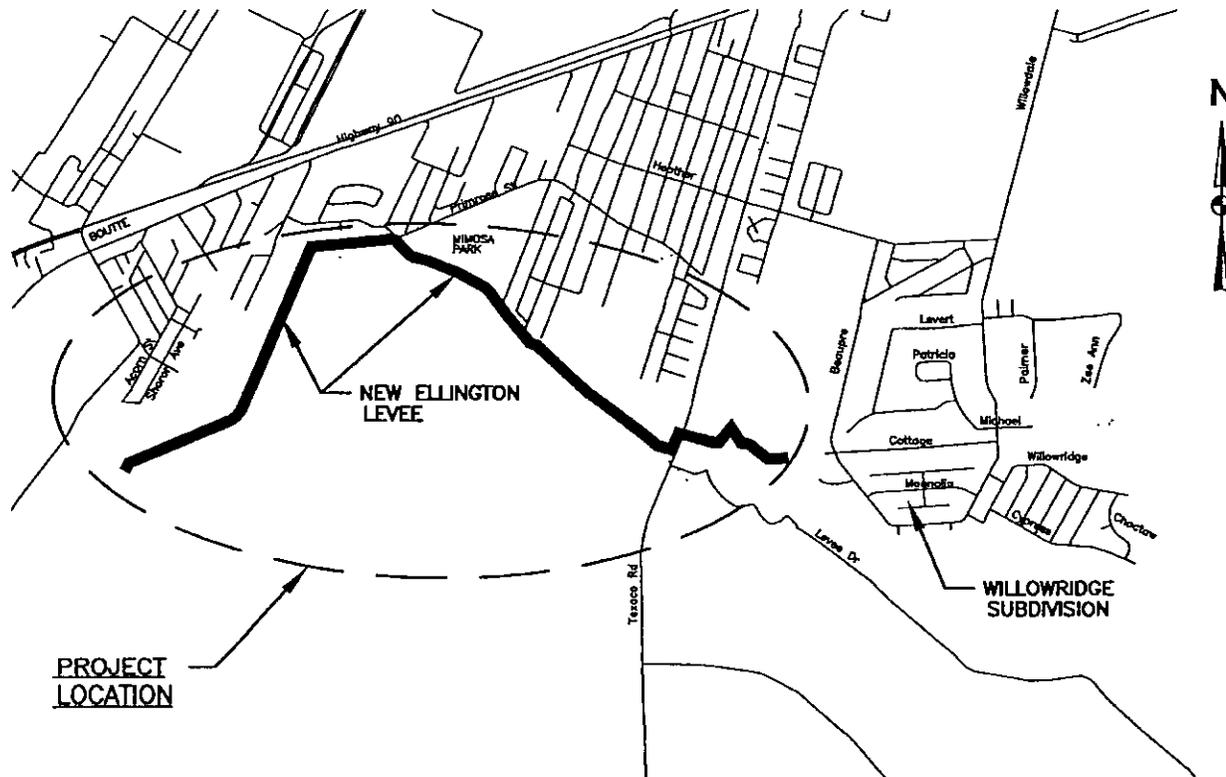
The applicant has certified that the proposed activity described in the application complies with and will be conducted in a manner that is consistent with the Louisiana Coastal Resources Program. The Department of the Army permit will not be issued unless the applicant received approval or a waiver of the Coastal Use Permit by the Department of Natural Resources.

You are requested to communicate the information contained in this notice to any other parties whom you deem likely to have interest in the matter.

Michael V. Farabee
Chief, Eastern Evaluation Section

Enclosure

PROPOSED HURRICANE PROTECTION LEVEE ELLINGTON PLANTATION AREA ST. CHARLES PARISH, LOUISIANA



LOCATION MAP

DRAWING INDEX:

- | | |
|--|---|
| <ol style="list-style-type: none"> 1. LOCATION MAP/DRAWING INDEX 2. VICINITY MAP 3. COORDINATES PLAN 1 OF 2 4. COORDINATES PLAN 2 OF 2 5. COORDINATES TABLE 6. COORDINATES TABLE 7. OVERALL PLAN 8. PARTIAL PLAN 1 OF 5 9. PARTIAL PLAN 2 OF 5 10. PARTIAL PLAN 3 OF 5 11. PARTIAL PLAN 4 OF 5 12. PARTIAL PLAN 5 OF 5 13. TYPICAL SECTIONS 14. TYPICAL SECTIONS 15. TYPICAL SECTIONS 15A. TYPICAL SECTIONS 16. TYPICAL SECTION 17. DETAIL "1" 17A. ACCESS ROAD 18. DETAIL "2" 19. DETAIL "3" 20. DETAIL "4" | <ol style="list-style-type: none"> 21. DETAIL "5" 22. DETAIL "6" 23. DETAIL "7" 24. DETAIL "8" 25. DETAIL "9" 26. ELEVATION "A" 27. ELEVATION "B" & "C" 28. ELEVATION "D" 29. ELLINGTON PUMPING STATION PLAN 30. ELLINGTON PUMPING STATION SECTION 31. ELLINGTON LEVEE HAUL ROUTES |
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REV	DATE	DESCRIPTION	BY
1	9/2014	REVISED INDEX	S.B.

PARISH OF ST. CHARLES
APPLICATION BY: PARISH OF ST. CHARLES

BURK-KLEINPETER, INC.
ENGINEERS, ARCHITECTS, PLANNERS, ENVIRONMENTAL SCIENTISTS
4176 CANAL STREET, NEW ORLEANS, LOUISIANA 70119-5994
(504) 486-5901 FAX (504) 486-1714

SHEET: 1 OF 31

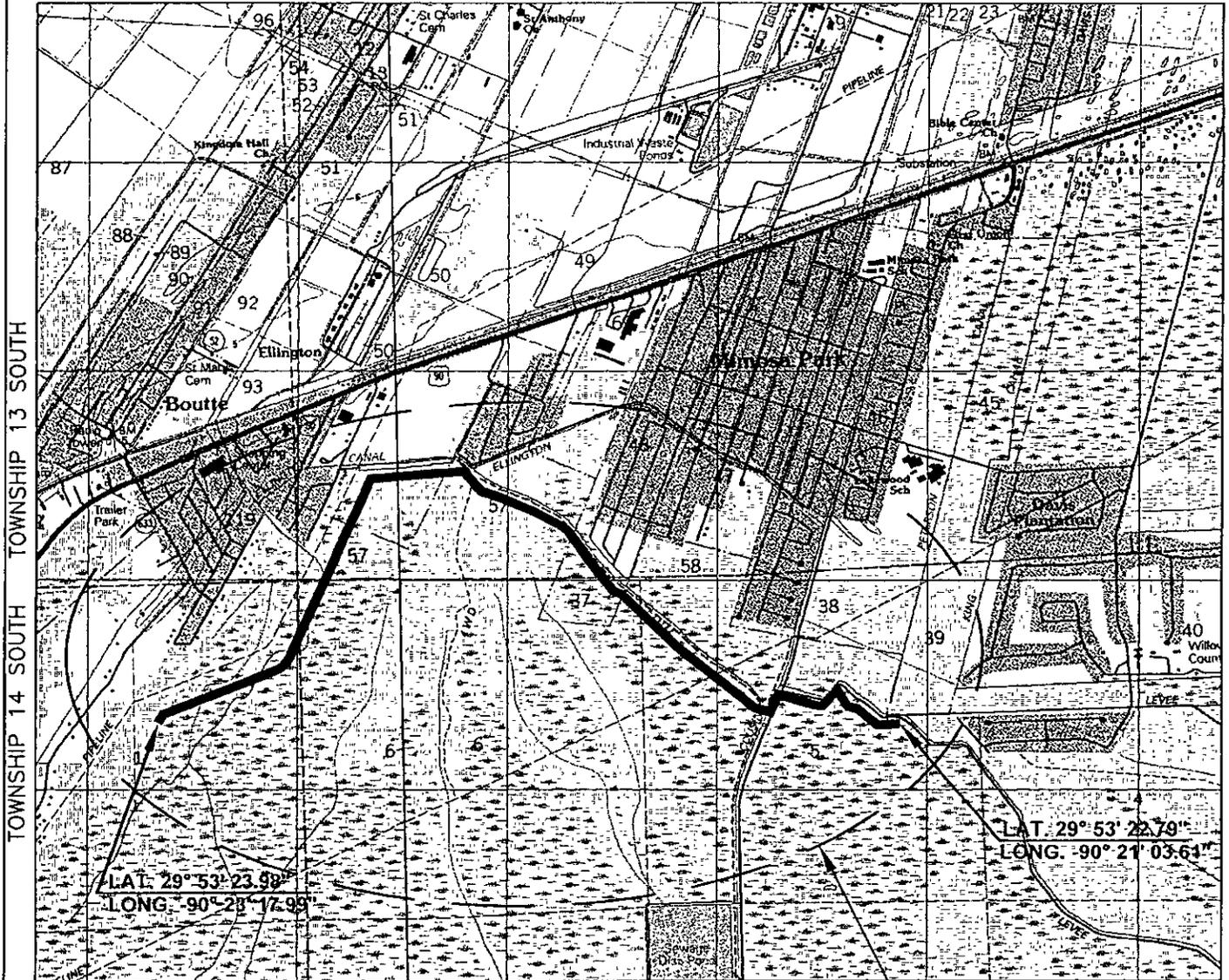
LOCATION MAP / DRAWING INDEX

BKI PROJ. NO. 10475-0300

SEPTEMBER 2014

PROPOSED HURRICANE PROTECTION LEVEE ELLINGTON AREA ST. CHARLES PARISH, LOUISIANA

RANGE 20/21 EAST



TOWNSHIP 13 SOUTH
TOWNSHIP 14 SOUTH

LAT: 29° 53' 23.98"
LONG: 90° 28' 17.95"

LAT: 29° 53' 22.79"
LONG: 90° 21' 03.64"



VICINITY MAP

SCALE: 1"=2500'



GRAPHIC SCALE

PROJECT LOCATION

PARISH OF ST. CHARLES
APPLICATION BY: PARISH OF ST. CHARLES

SHEET: 2 OF 31

VICINITY MAP

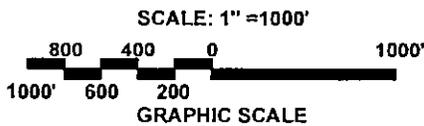
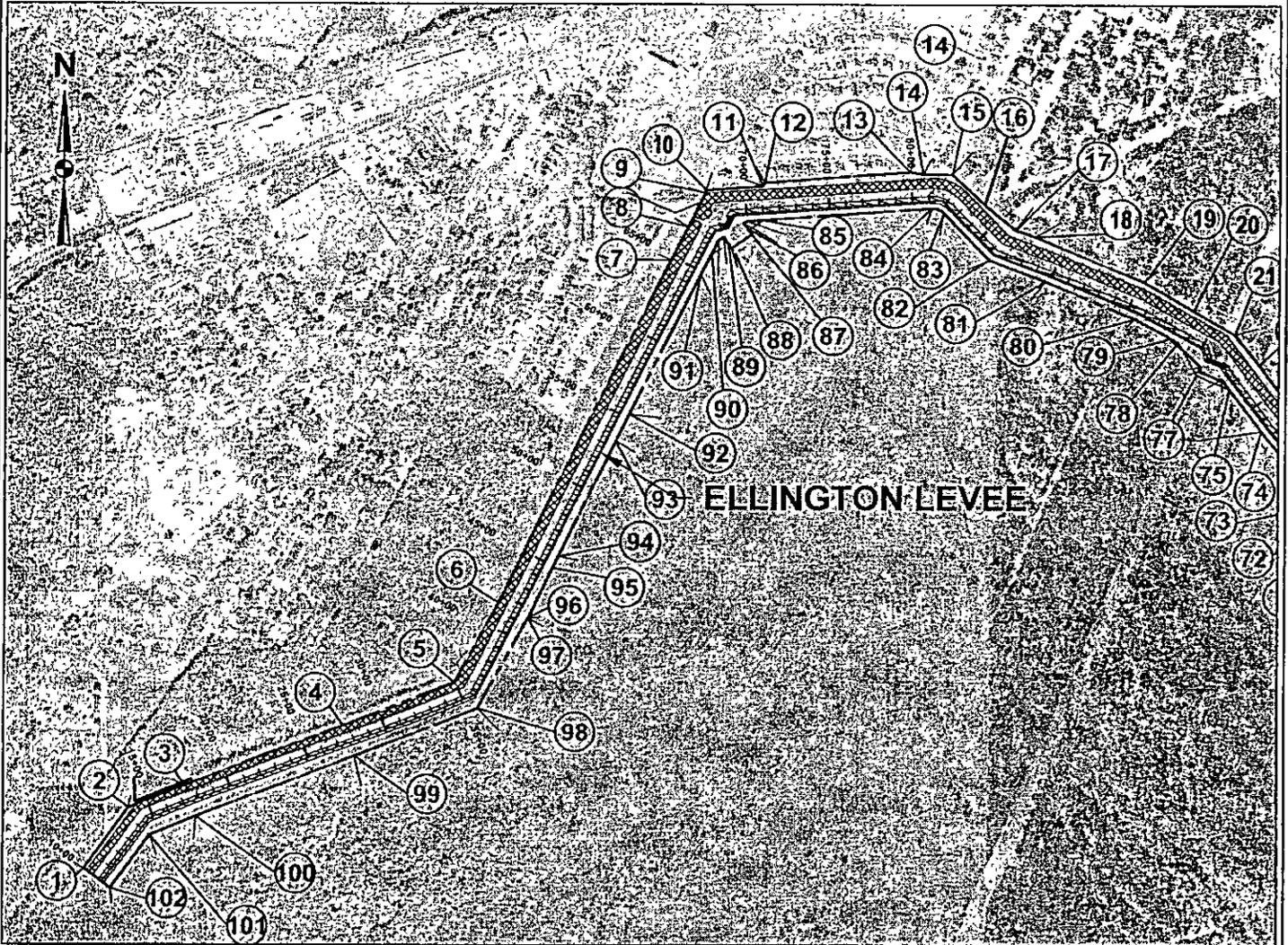
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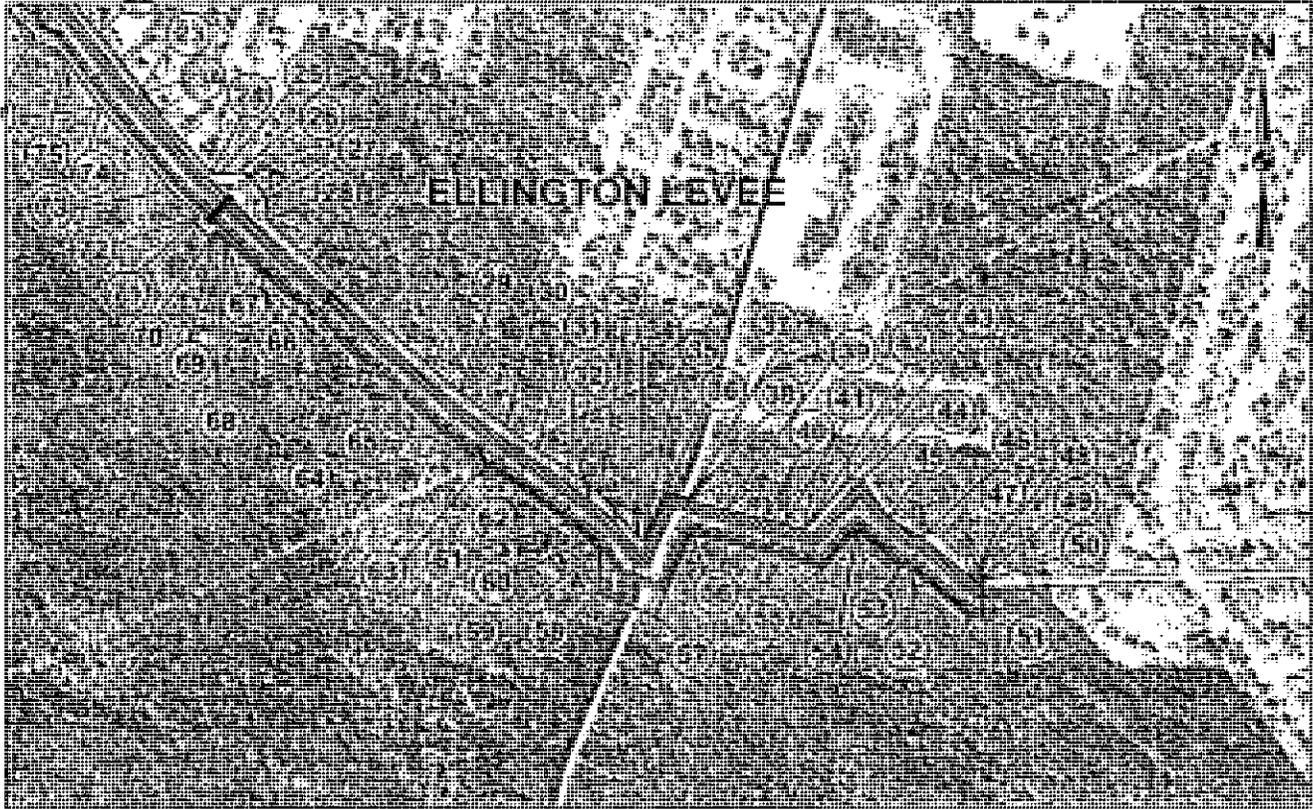
- LEVEE RIGHT OF WAY
- LEVEE BASELINE
- XXXXXX DREDGING
- ////// FILL

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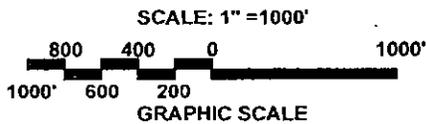
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**PROPOSED HURRICANE PROTECTION LEVEE
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ST. CHARLES PARISH, LOUISIANA**

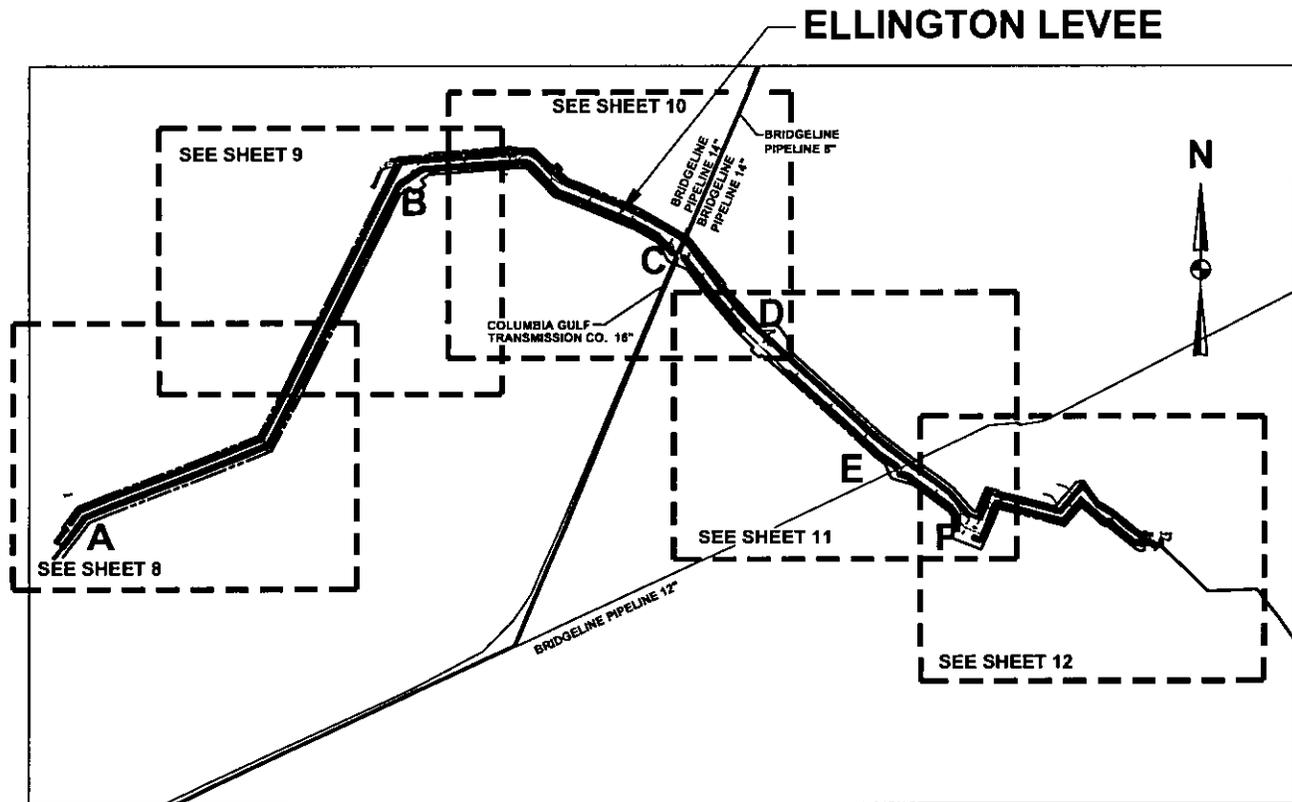
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3	507302.47	3580780.39
4	507666.89	3581738.28
5	507931.41	3582410.02
6	508421.93	3582676.20
7	510510.12	3583709.83
8	510715.14	3583811.78
9	510864.40	3583887.60
10	510934.50	3583918.35
11	510961.12	3584257.25
12	510981.99	3584267.61
13	511850.66	3585141.88
14	511036.89	3585221.29
15	511035.00	3585393.73
16	510851.31	3585589.11
17	510698.03	3585776.41
18	510655.90	3585893.71
19	510377.66	3586546.33
20	510206.44	3586842.80
21	510057.75	3587088.91
22	509869.18	3587235.21
23	509559.30	3587474.37
23A	509536.76	3587465.26
24	509109.69	3587850.77
25	509102.38	3587897.51
26	509118.17	3588005.14
27	508967.62	3588151.81
28	508861.13	3588154.35
29	507923.10	3589199.17
30	507732.89	3589447.37
31	507610.73	3589614.33
32	507486.51	3589794.85
33	507362.65	3589954.39
34	507121.28	3590163.63
35	507106.56	3590198.26
36	507368.63	3590309.64
37	507334.14	3590439.50
38	507322.02	3590434.49
39	507274.43	3590632.01
40	507220.42	3590842.81
41	507191.51	3590952.45
42	507158.48	3591056.36
43	507428.65	3591293.86
44	507437.17	3591366.17
45	507223.00	3591510.26
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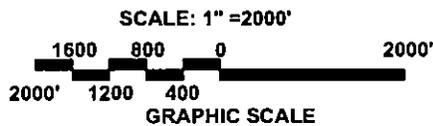
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PROPOSED HURRICANE PROTECTION LEVEE ELLINGTON PLANTATION AREA ST. CHARLES PARISH, LOUISIANA



LEGEND:



- LEVEE RIGHT OF WAY
- LEVEE BASELINE
- DREDGING
- FILL
- PIPELINE R.O.W.

STRUCTURES LEGEND:

- A GATED CULVERTS (DETAIL 1, SHT. 17)
- B NEW PUMPING STATION (DETAIL 2, SHT. 18)
- C FLOOD WALL AT PIPELINE CROSSING (DETAIL 4, SHT. 20)
- D EXTEND PUMPING STATION DISCHARGE PIPES (DETAIL 5, SHT. 21)
- E FLOOD WALL AT PIPELINE CROSSING (DETAIL 6, SHT. 22)
- F FLOOD WALL AT EXISTING COUSINS PUMPING STATION (DETAIL 7, SHT. 23)

PARISH OF ST. CHARLES
APPLICATION BY: PARISH OF ST. CHARLES

SHEET: 7 OF 31

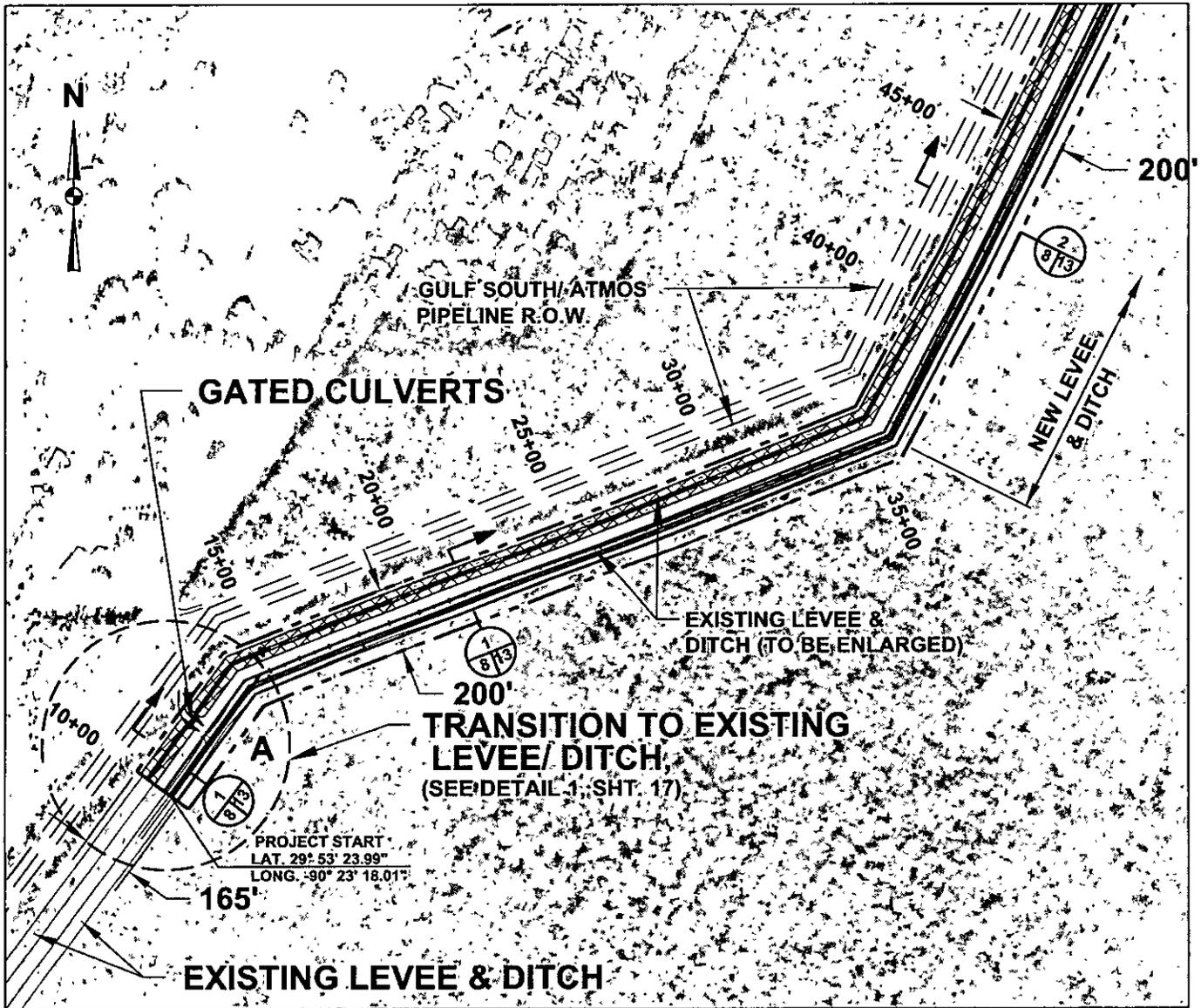
OVERALL PLAN

BURK-KLEINPETER, INC.
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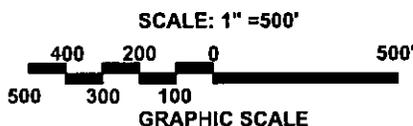
PROPOSED HURRICANE PROTECTION LEVEE ELLINGTON PLANTATION AREA ST. CHARLES PARISH, LOUISIANA



TOTAL DREDGED MATERIAL : 230,500 C.Y.
 TOTAL FILL MATERIAL : 231,500 C.Y.
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 TOTAL GRANULAR MATERIAL FOR ACCESS ROADS : 29,000 C.Y.
 TOTAL SURFACING MATERIAL FOR ACCESS ROADS : 10,000 C.Y.
 TOTAL MATERIAL HAULED OFFSITE TO APPROVED DISPOSAL AREA:
 23,500 C.Y.

LEGEND:

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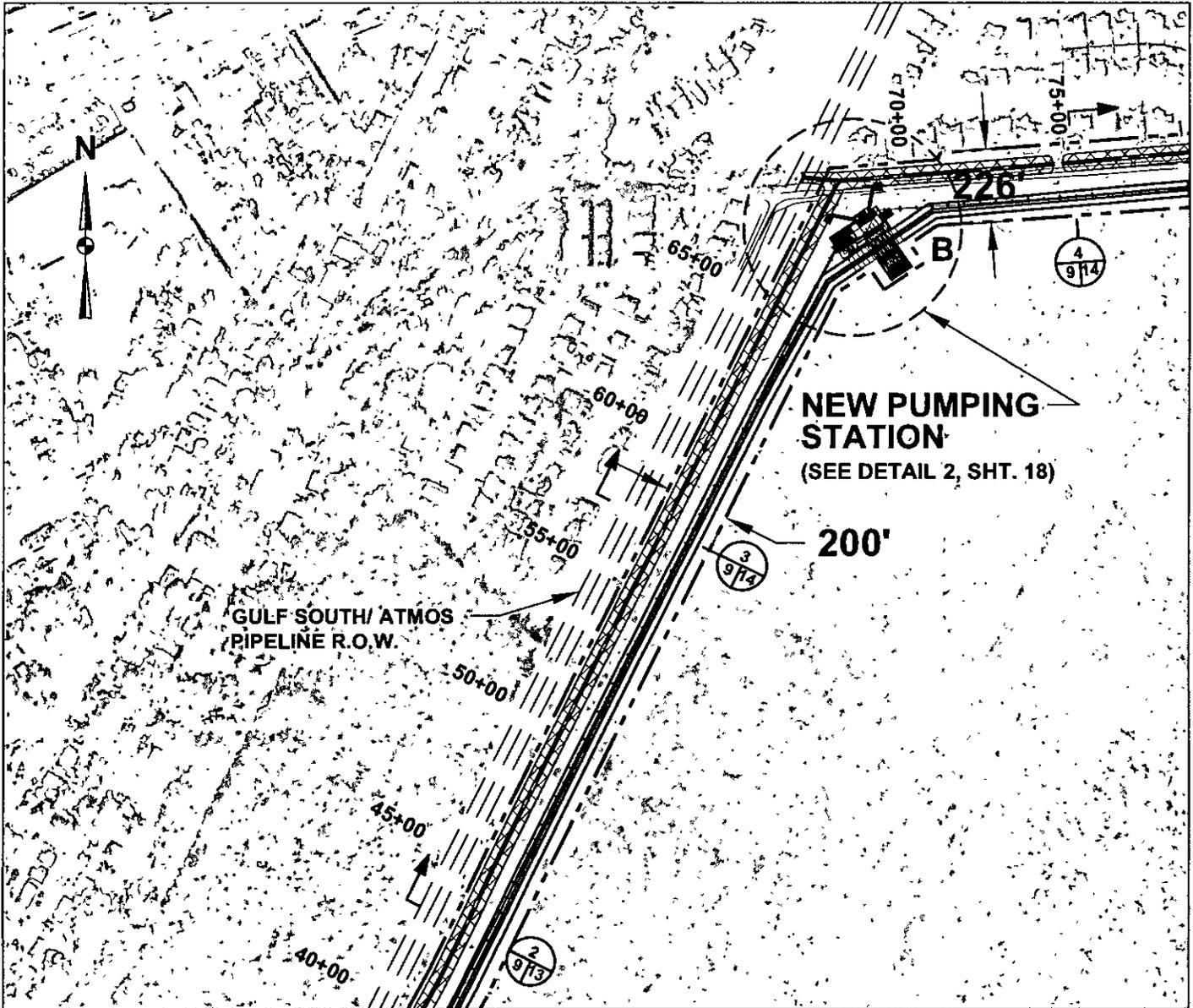


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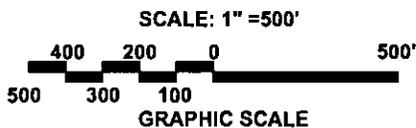
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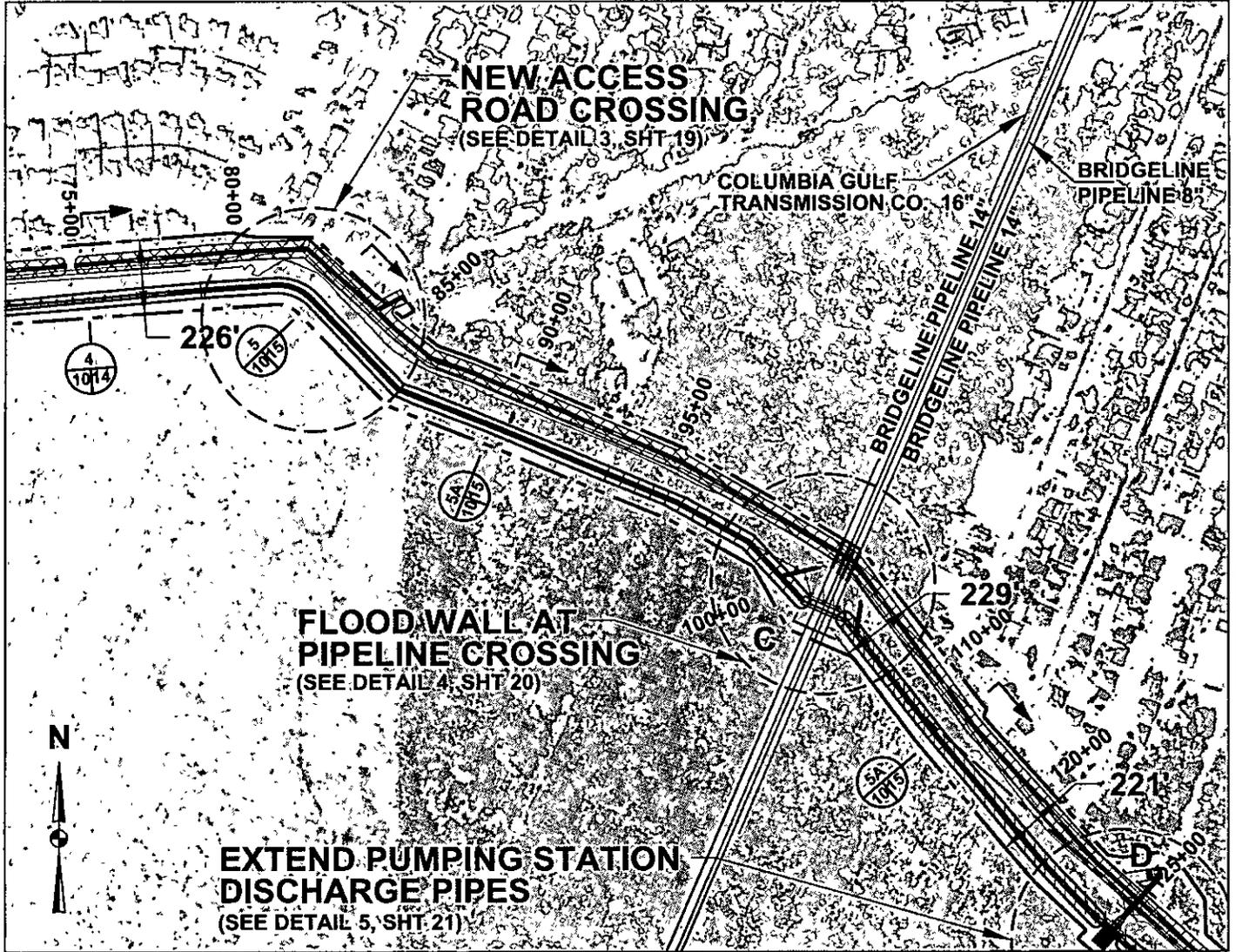


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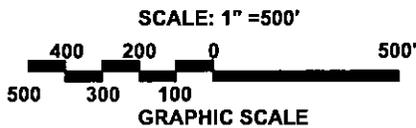
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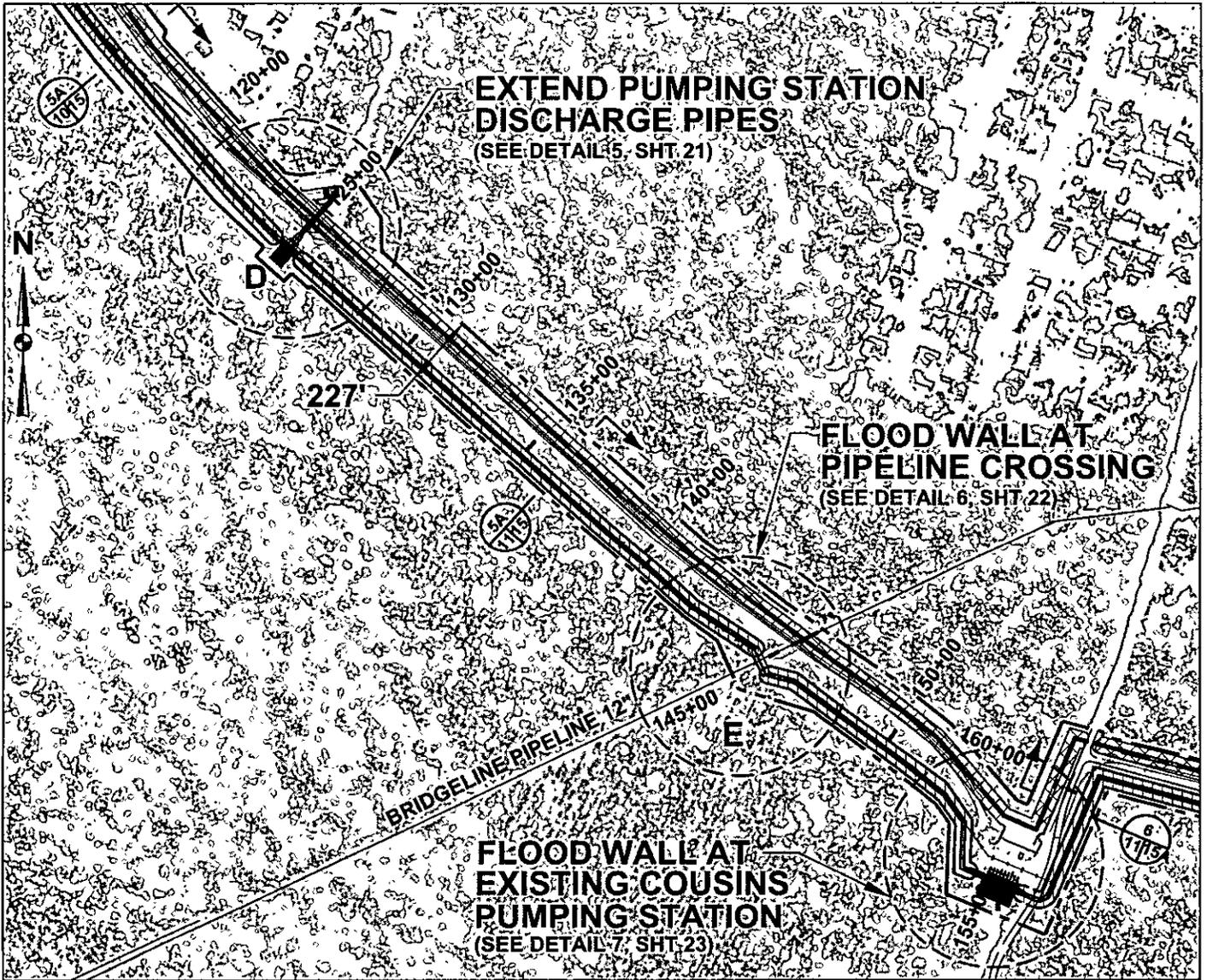


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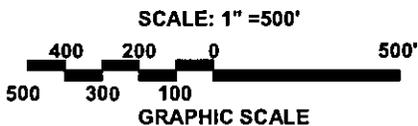
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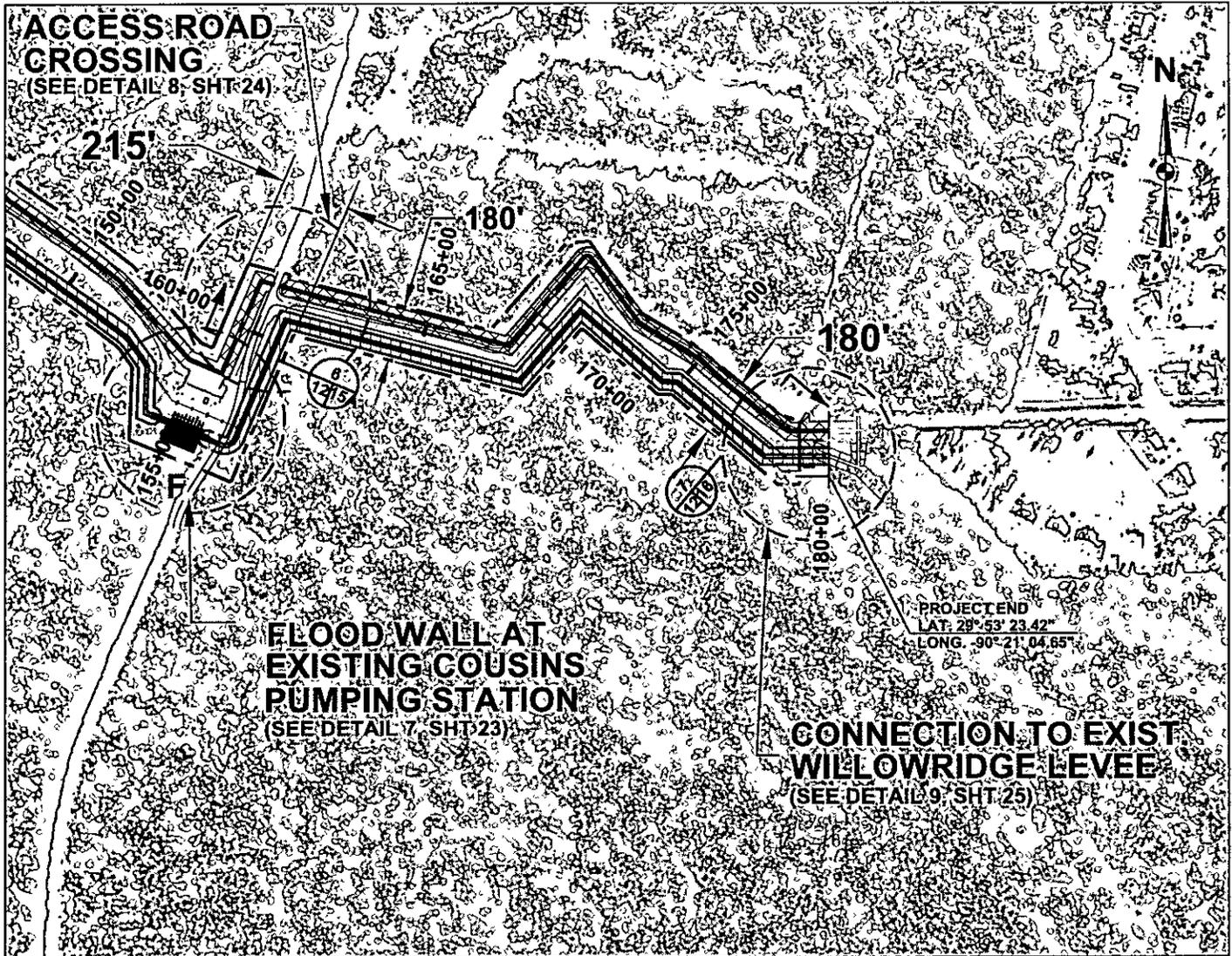
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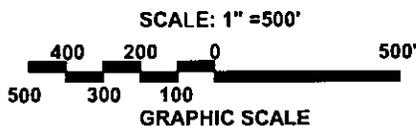
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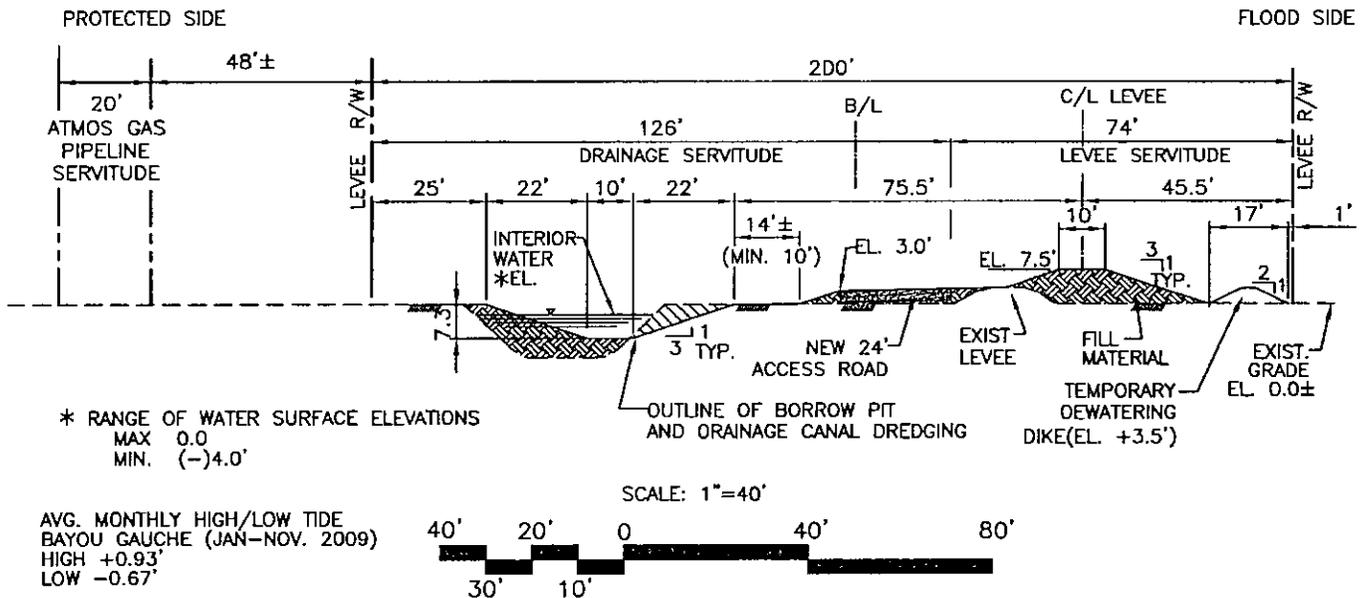


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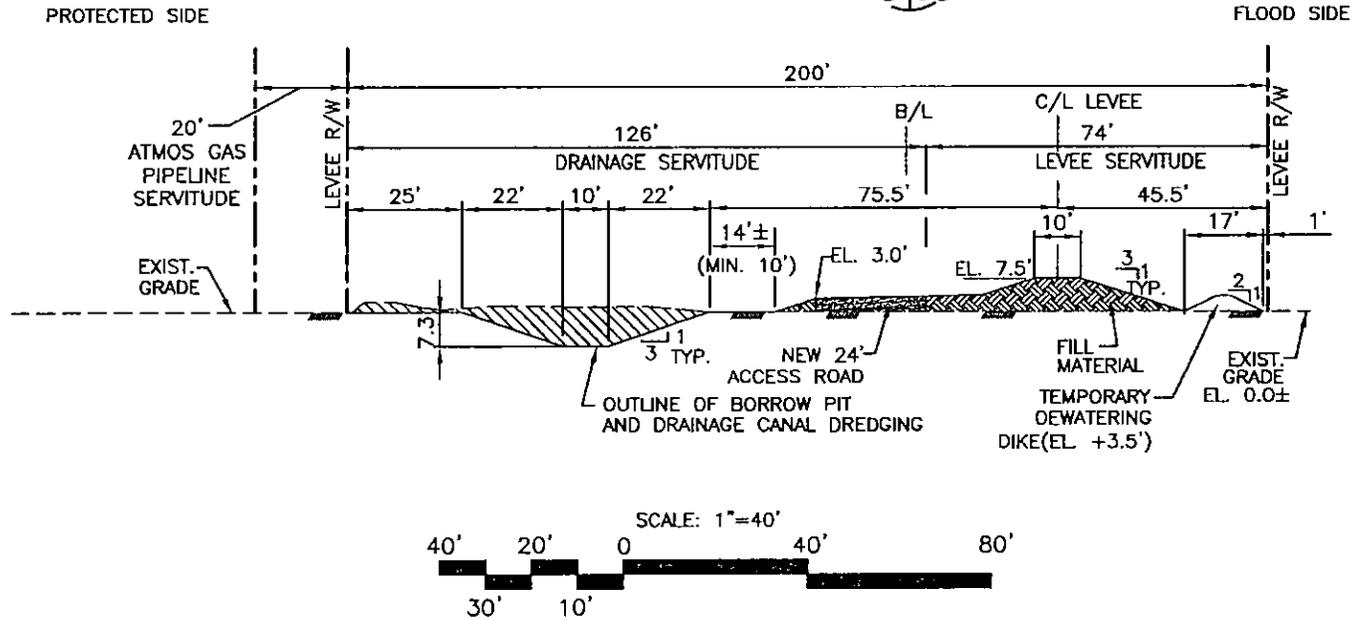
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* RANGE OF WATER SURFACE ELEVATIONS
MAX 0.0
MIN. (-)4.0'

AVG. MONTHLY HIGH/LOW TIDE
BAYOU GAUCHE (JAN-NOV. 2009)
HIGH +0.93'
LOW -0.67'

TYPICAL SECTION 1
8/13



LEGEND:

- DREDGING
- FILL (LEVEE)

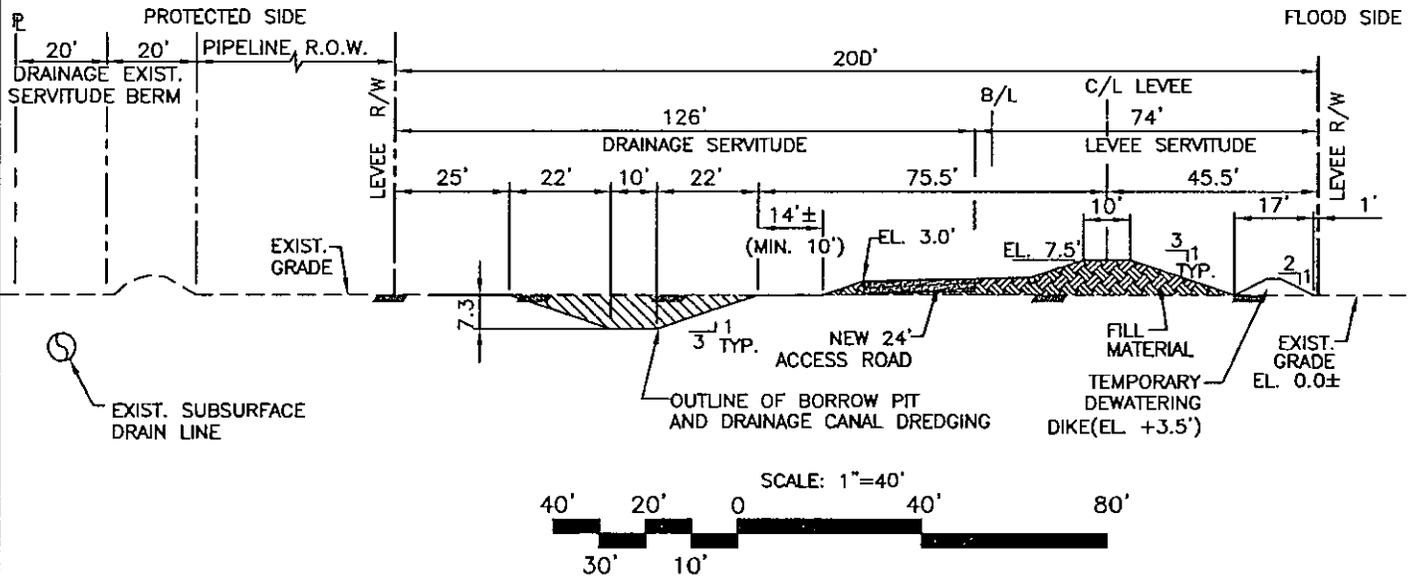
NOTE:
ELEVATIONS ARE NAVD88

REV	DATE	DESCRIPTION	BY
1	9/2014	REVISED R.O.W.	S.B.

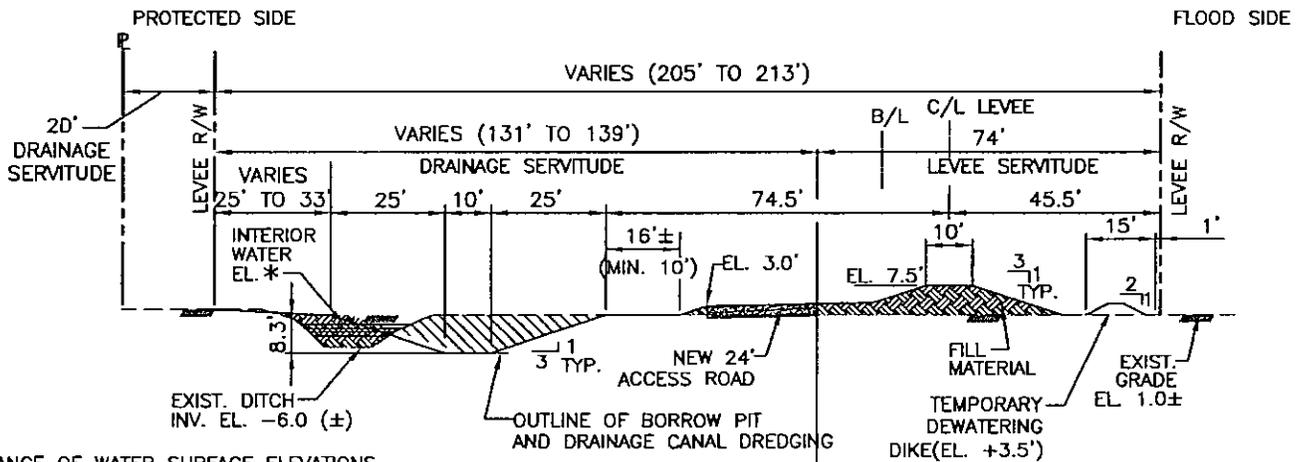
PARISH OF ST. CHARLES
APPLICATION BY: PARISH OF ST. CHARLES

BURK-KLEINPETER, INC.
ENGINEERS, ARCHITECTS, PLANNERS, ENVIRONMENTAL SCIENTISTS
4175 CANAL STREET, NEW ORLEANS, LOUISIANA 70119-5994
(504) 486-5901 FAX (504) 488-1714

PROPOSED HURRICANE PROTECTION LEVEE ELLINGTON AREA ST. CHARLES PARISH, LOUISIANA



TYPICAL SECTION 3
9/14



* RANGE OF WATER SURFACE ELEVATIONS
MAX 0.0
MIN. (-)3.1'

AVG. MONTHLY HIGH/LOW TIDE
- BAYOU GAUCHE (JAN-NOV. 2009)
HIGH +0.93'
LOW -0.67'

LEGEND:

- DREDGING
- FILL (LEVEE)

TYPICAL SECTION 4 **4** **4**
9/14 **10/14** **11/14**

NOTE:
ELEVATIONS ARE NAVD88

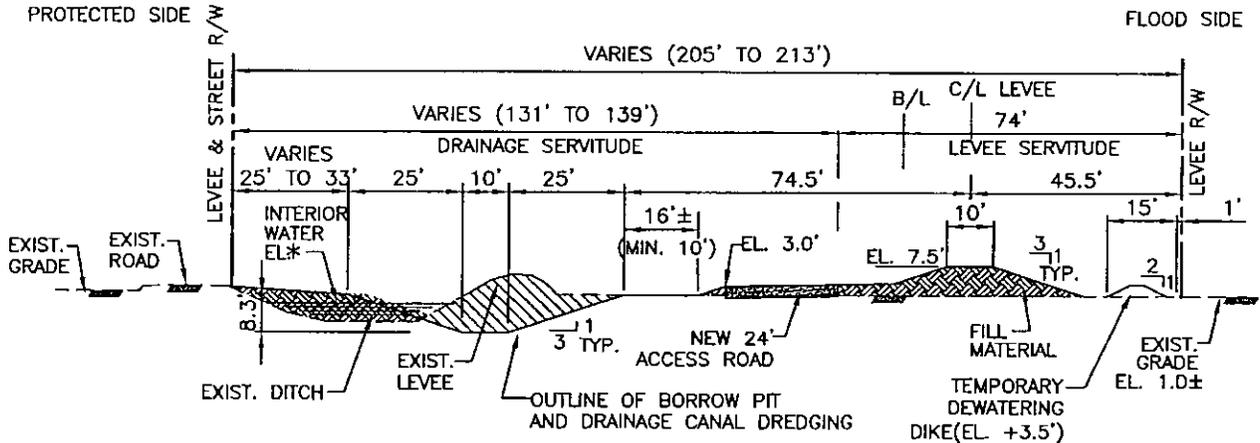
REV	DATE	DESCRIPTION	BY
1	9/2014	REVISED R.O.W.	S.B.

PARISH OF ST. CHARLES
APPLICATION BY: PARISH OF ST. CHARLES

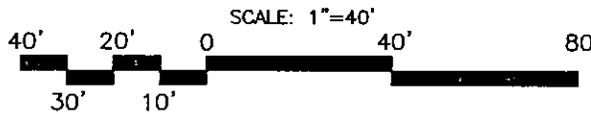
BURK-KLEINPETER, INC.
ENGINEERS, ARCHITECTS, PLANNERS, ENVIRONMENTAL SCIENTISTS
4176 CANAL STREET, NEW ORLEANS, LOUISIANA 70119-5994
(504) 486-5901 FAX (504) 488-1714

BKI PROJ. NO. 10475-0300

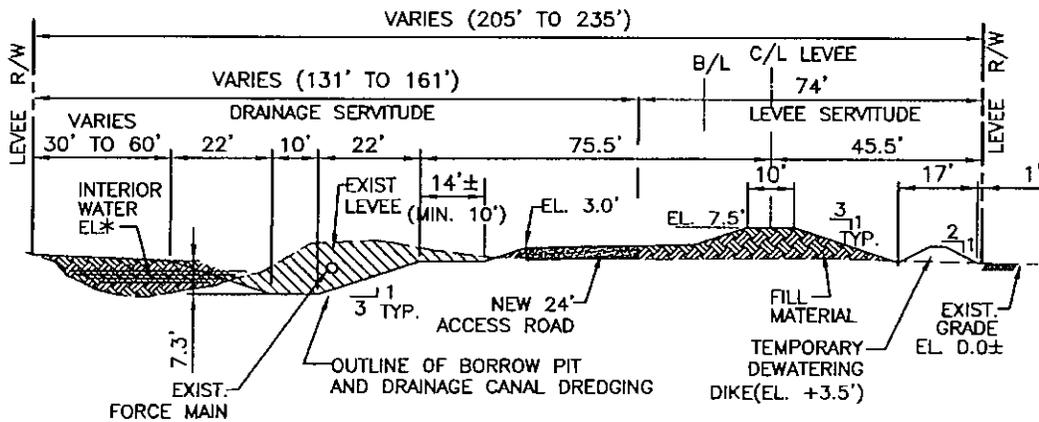
PROPOSED HURRICANE PROTECTION LEVEE ELLINGTON AREA ST. CHARLES PARISH, LOUISIANA



* RANGE OF WATER SURFACE ELEVATIONS
 MAX 0.0
 MIN. (-)3.1'
 AVG. MONTHLY HIGH/LOW TIDE
 - BAYOU GAUCHE (JAN-NOV. 2009)
 HIGH +0.93'
 LOW -0.67'



TYPICAL SECTION 5
1015



* RANGE OF WATER SURFACE ELEVATIONS
 MAX 0.0
 MIN. (-)3.1'

AVG. MONTHLY HIGH/LOW TIDE
 - BAYOU GAUCHE (JAN-NOV. 2009)
 HIGH +0.93'
 LOW -0.67'

LEGEND:

- DREDGING
- FILL (LEVEE)

TYPICAL SECTION 5A 5A
1115 1215

NOTE:
ELEVATIONS ARE NAVD88

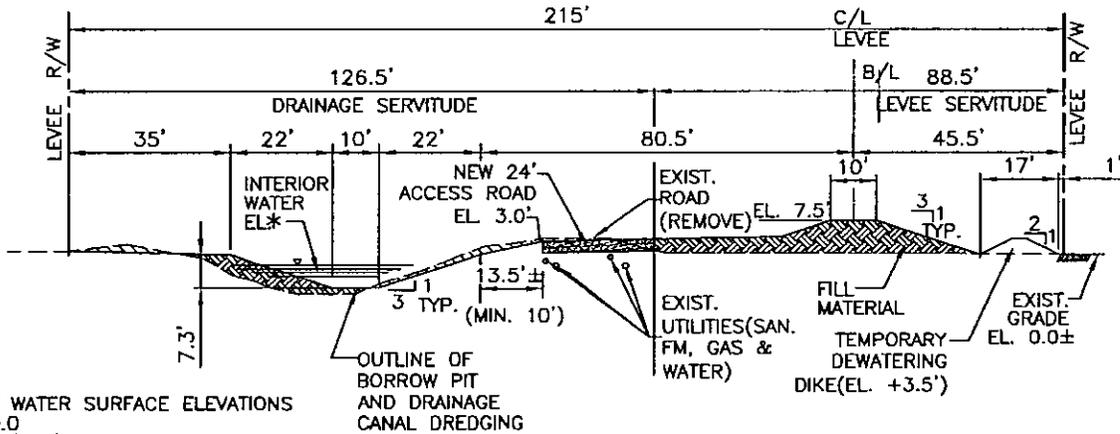
PARISH OF ST. CHARLES
 APPLICATION BY: PARISH OF ST. CHARLES

REV. 1	DATE 9/2014	DESCRIPTION REVISED R.O.W.	BY S.B.
PARISH OF ST. CHARLES		BURK-KLEINPETER, INC.	
SHEET: 15 OF 31		ENGINEERS, ARCHITECTS, PLANNERS, ENVIRONMENTAL SCIENTISTS 4176 CANAL STREET, NEW ORLEANS, LOUISIANA 70119-5994 (504) 486-5901 FAX (504) 486-1714	
TYPICAL SECTIONS		BKI PROJ. NO. 10475-0300	
		SEPTEMBER 2014	

PROPOSED HURRICANE PROTECTION LEVEE ELLINGTON AREA ST. CHARLES PARISH, LOUISIANA

PROTECTED SIDE

FLOOD SIDE



* RANGE OF WATER SURFACE ELEVATIONS
MAX 0.0
MIN. (-)3.5'

AVG. MONTHLY HIGH/LOW TIDE
- BAYOU GAUCHE (JAN-NOV. 2009)
HIGH +0.93'
LOW -0.67'

SCALE: 1"=40'



LEGEND:

- DREDGING
- FILL (LEVEE)

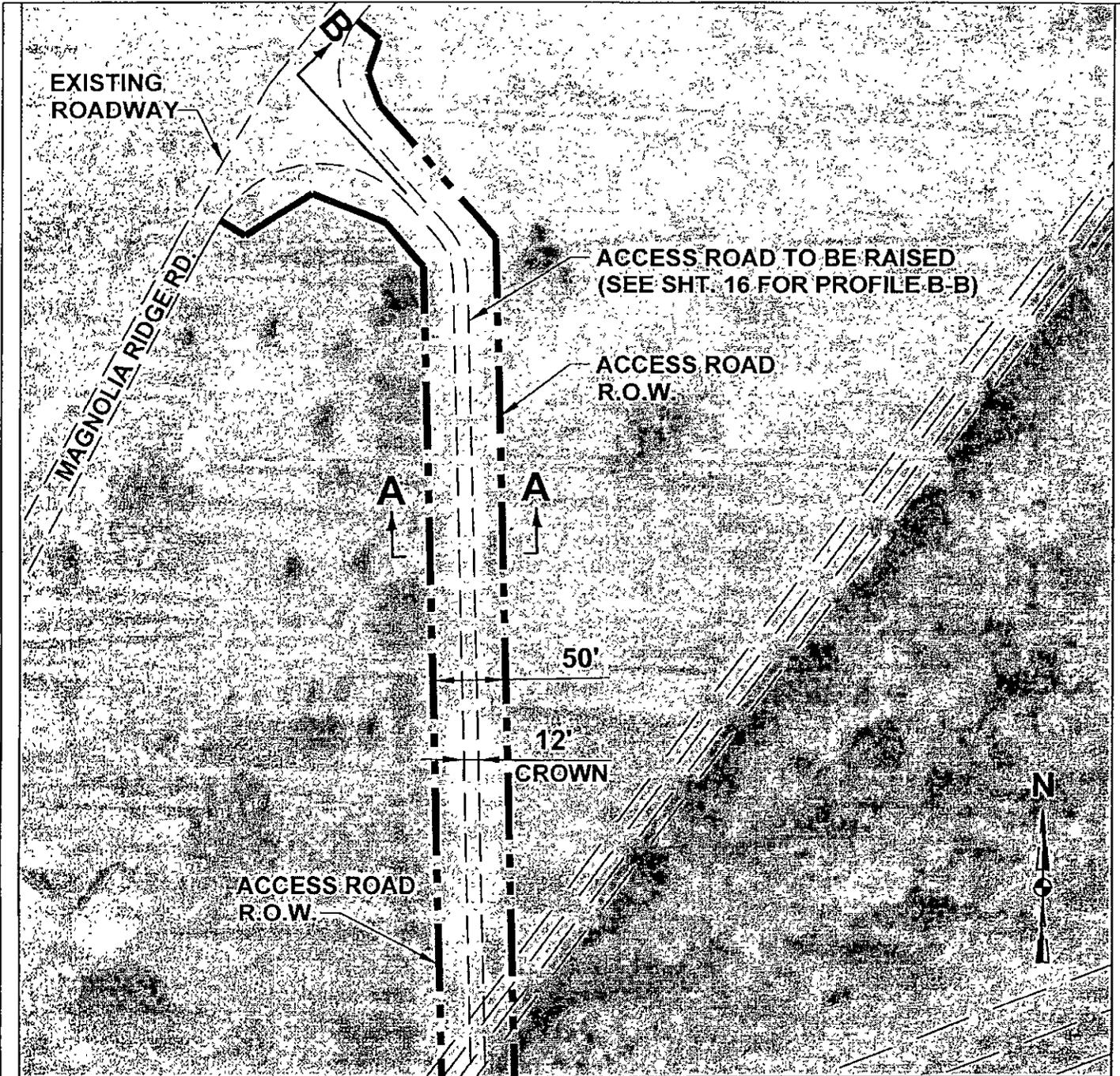
TYPICAL SECTION 6 6
11115A 12115A

NOTE:
ELEVATIONS ARE NAVD88

REV.	DATE	DESCRIPTION	BY
1	9/2014	REVISED R.O.W.	S.B.

PARISH OF ST. CHARLES
APPLICATION BY: PARISH OF ST. CHARLES

BURK-KLEINPETER, INC.
ENGINEERS, ARCHITECTS, PLANNERS, ENVIRONMENTAL SCIENTISTS
4176 CANAL STREET, NEW ORLEANS, LOUISIANA 70119-5994
(504) 486-5901 FAX (504) 488-1714

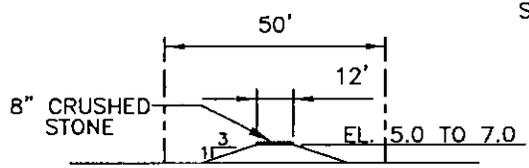


MATCHLINE A-A

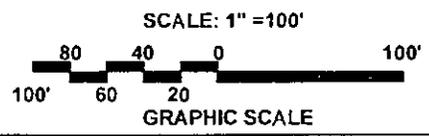
ACCESS ROAD
SCALE: 1" = 100'

LEGEND:

-  LEVEE RIGHT OF WAY
-  LEVEE BASELINE
-  PIPELINE R.O.W.
-  ACCESS RD. CROWN

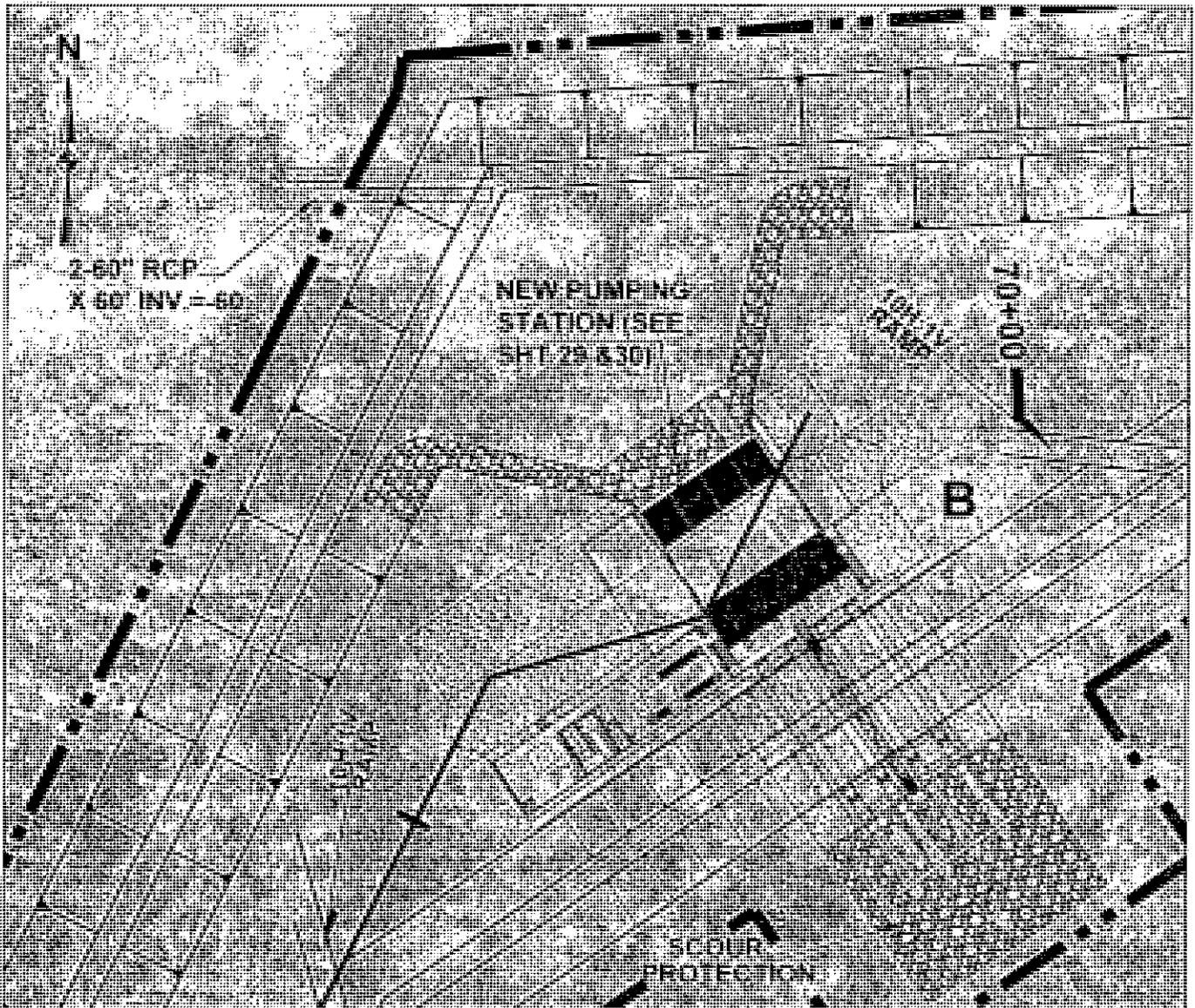


ACCESS ROAD SECTION A-A
SCALE: NTS



PARISH OF ST. CHARLES
APPLICATION BY: PARISH OF ST. CHARLES
SHEET: 17A OF 31 (ELLINGTON) ACCESS ROAD

BURK-KLEINPETER, INC.
ENGINEERS, ARCHITECTS, PLANNERS, ENVIRONMENTAL SCIENTISTS
4176 CANAL STREET, NEW ORLEANS, LOUISIANA 70119-5994
(504) 488-5901 FAX (504) 488-1714
BKI PROJ. NO. 10475-0300 SEPTEMBER 2014

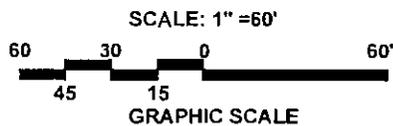


**DETAIL 2
NEW PUMPING STATION**

SCALE: 1" = 60'

LEGEND:

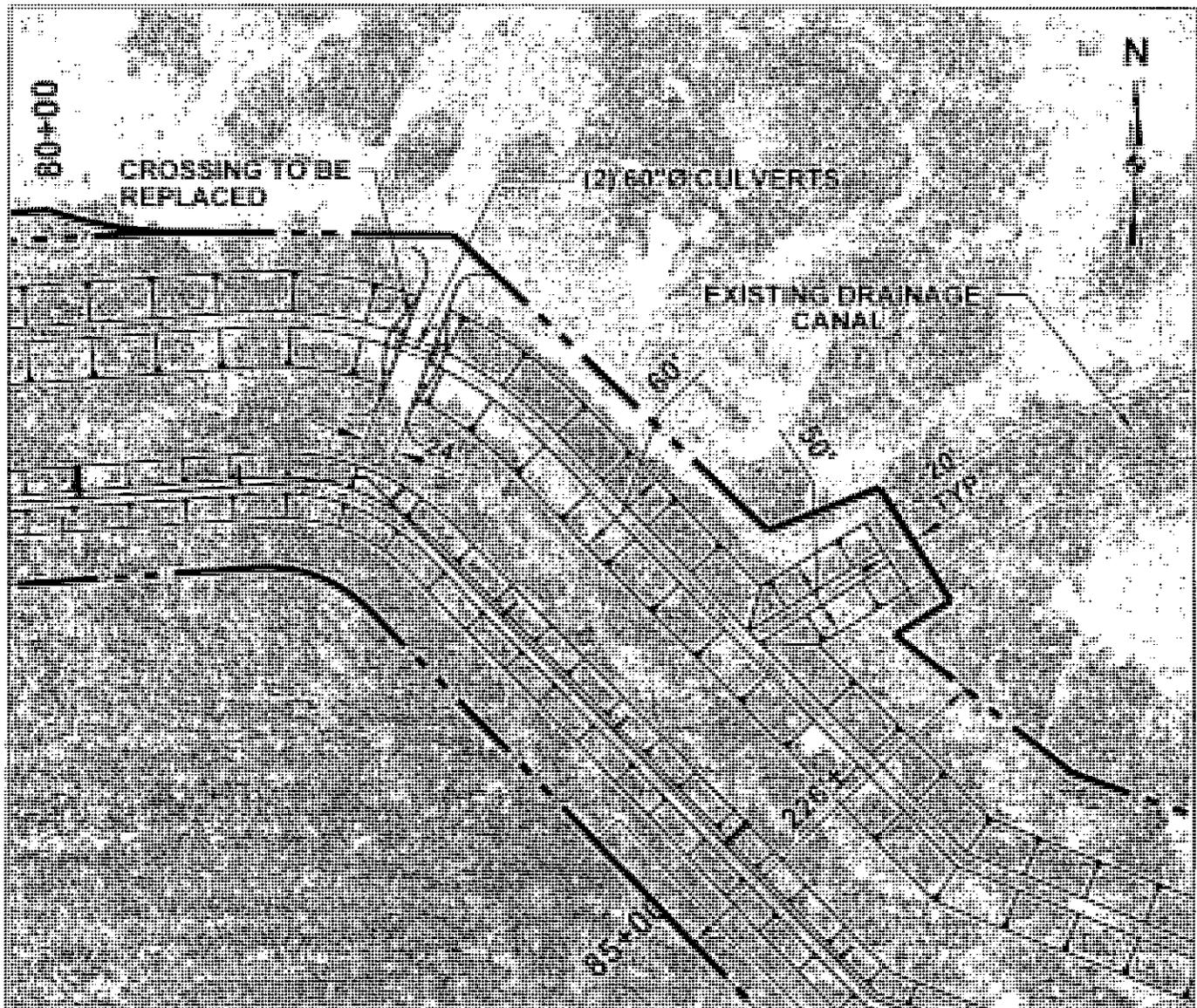
- LEVEE RIGHT OF WAY
- LEVEE BASELINE



REV	DATE	DESCRIPTION	BY
1	9/2014	REVISED R.O.W. & PUMP STATION LAYOUT	S.B.

PARISH OF ST. CHARLES
APPLICATION BY: PARISH OF ST. CHARLES

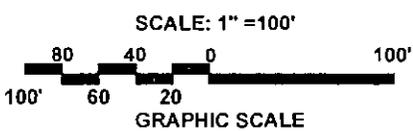
BURK-KLEINPETER, INC.
ENGINEERS, ARCHITECTS, PLANNERS, ENVIRONMENTAL SCIENTISTS
4176 CANAL STREET, NEW ORLEANS, LOUISIANA 70119-5994
(504) 486-5801 FAX (504) 488-1714



DETAIL 3
NEW ACCESS ROAD CROSSING
 SCALE: 1" = 100'

LEGEND:

- — — — —** LEVEE RIGHT OF WAY
- | — | — | — | — |** LEVEE BASELINE



REV.	DATE	DESCRIPTION	BY
1	9/2014	REVISED R.O.W.	S.B.

PARISH OF ST. CHARLES
APPLICATION BY: PARISH OF ST. CHARLES
 SHEET: 19 OF 31 (ELLINGTON) DETAIL "3"

BURK-KLEINPETER, INC.
 ENGINEERS, ARCHITECTS, PLANNERS, ENVIRONMENTAL SCIENTISTS
 4176 CANAL STREET, NEW ORLEANS, LOUISIANA 70119-5994
 (504) 486-5901 FAX (504) 488-1714

BKI PROJ. NO. 10475-0300 SEPTEMBER 2014

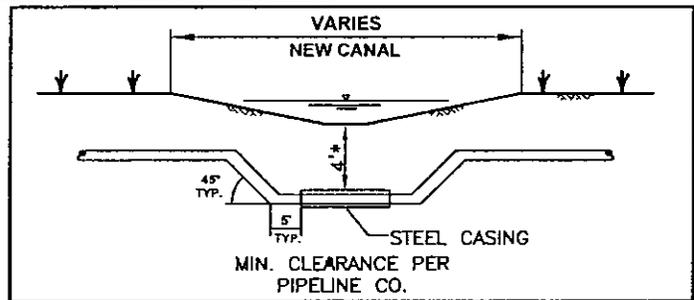
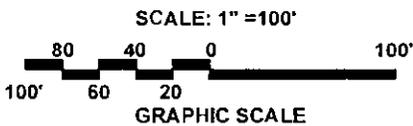


**DETAIL 4
FLOOD WALL AT PIPELINE CROSSING**

SCALE: 1" = 100'

LEGEND:

- LEVEE RIGHT OF WAY
- LEVEE BASELINE

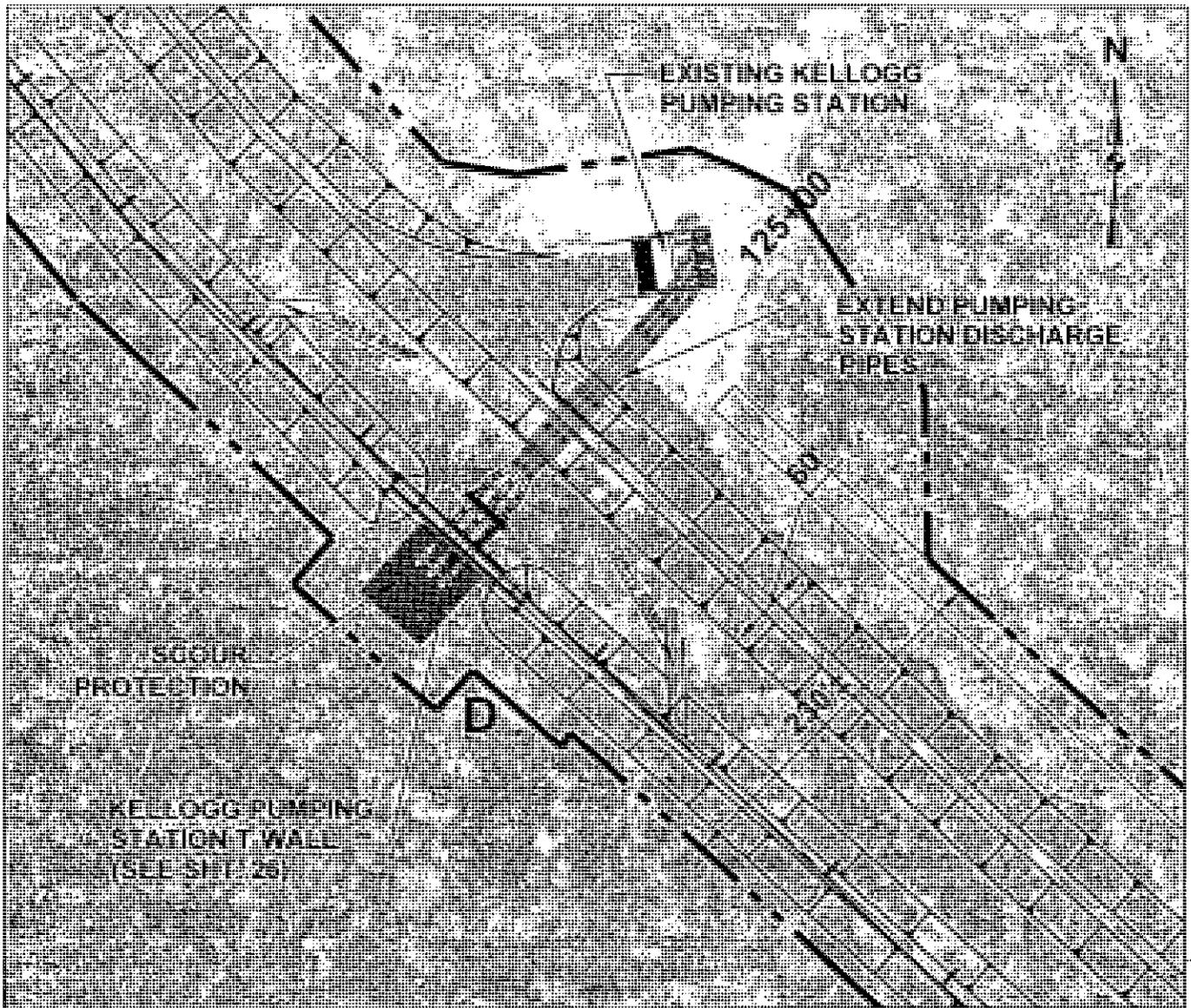


**PIPELINE CROSSING PROFILE
NOT TO SCALE**

REV	DATE	DESCRIPTION	BY
1	9/2014	REVISED R.O.W.	S.B.

PARISH OF ST. CHARLES
APPLICATION BY: PARISH OF ST. CHARLES

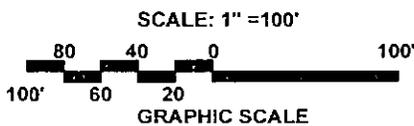
BURK-KLEINPETER, INC.
ENGINEERS, ARCHITECTS, PLANNERS, ENVIRONMENTAL SCIENTISTS
4176 CANAL STREET, NEW ORLEANS, LOUISIANA 70119-5994
(504) 486-5901 FAX (504) 488-1714



DETAIL 5
EXTEND PUMPING STATION DISCHARGE PIPES
 SCALE: 1" = 100'

LEGEND:

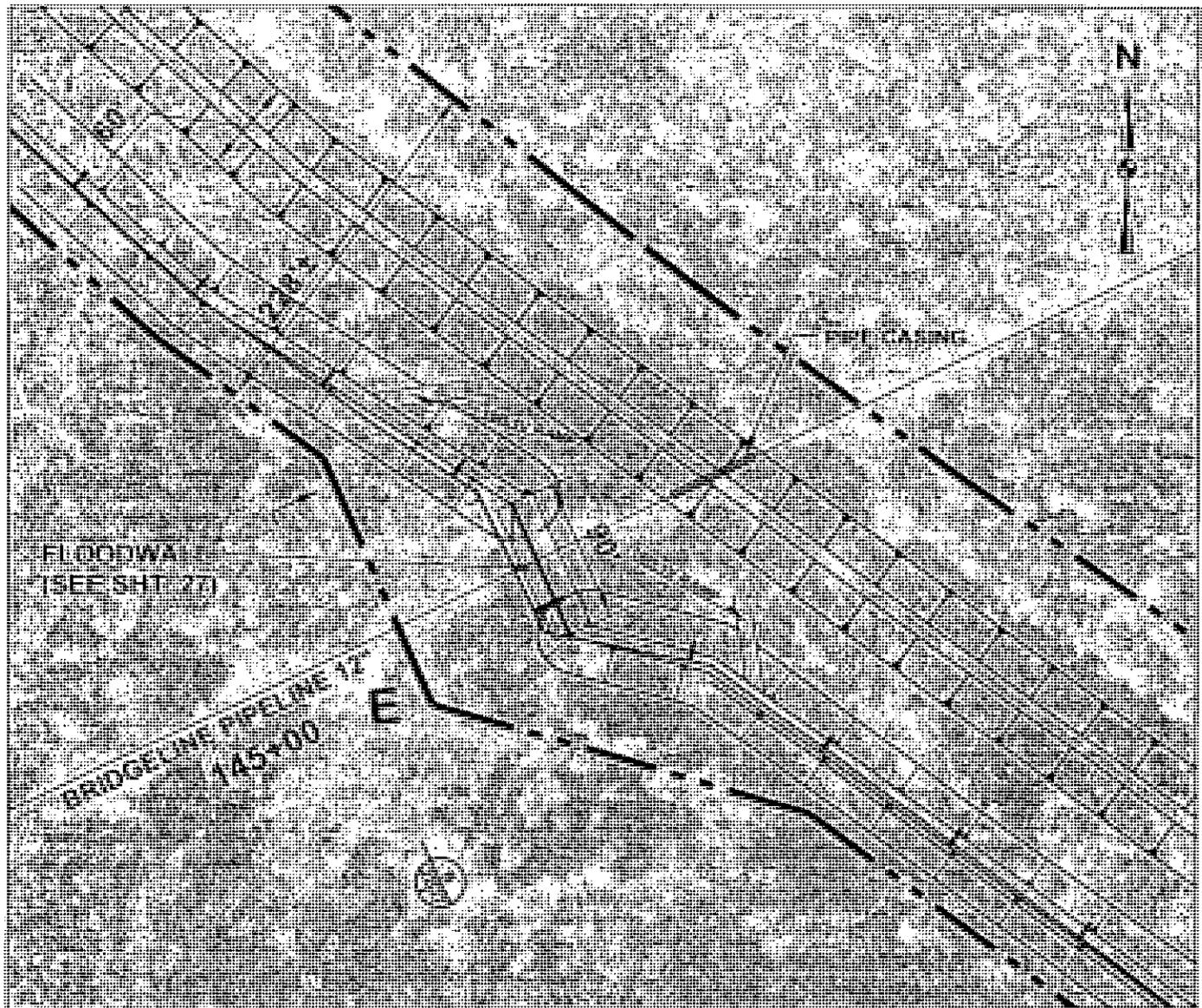
- — — — — LEVEE RIGHT OF WAY
- — — — — LEVEE BASELINE



REV.	DATE	DESCRIPTION	BY
1	9/2014	REVISED R.O.W.	S.B.

PARISH OF ST. CHARLES
 APPLICATION BY: PARISH OF ST. CHARLES

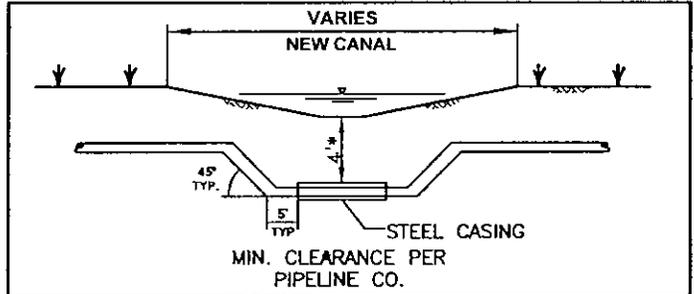
BURK-KLEINPETER, INC.
 ENGINEERS, ARCHITECTS, PLANNERS, ENVIRONMENTAL SCIENTISTS
 4176 CANAL STREET, NEW ORLEANS, LOUISIANA 70119-5994
 (504) 486-5901 FAX (504) 488-1714



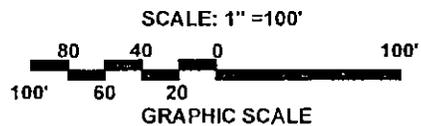
DETAIL 6
FLOOD WALL AT PIPELINE CROSSING
 SCALE: 1" = 100'

LEGEND:

- LEVEE RIGHT OF WAY
- LEVEE BASELINE



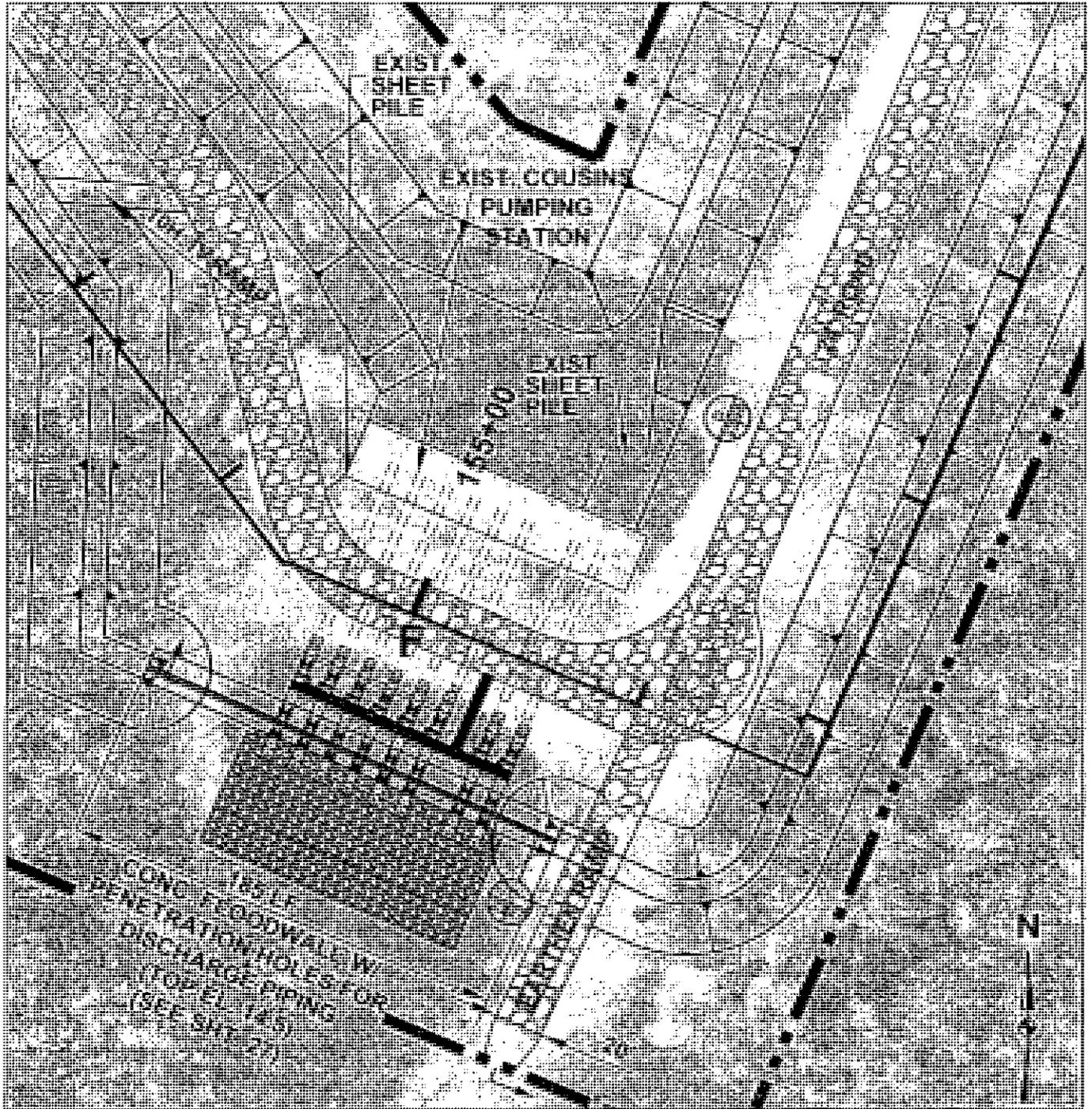
PIPELINE CROSSING PROFILE
 NOT TO SCALE



REV.	DATE	DESCRIPTION	BY
1	9/2014	REVISED R.O.W.	S.B.

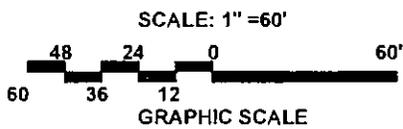
PARISH OF ST. CHARLES
 APPLICATION BY: PARISH OF ST. CHARLES

BURK-KLEINPETER, INC.
 ENGINEERS, ARCHITECTS, PLANNERS, ENVIRONMENTAL SCIENTISTS
 4176 CANAL STREET, NEW ORLEANS, LOUISIANA 70119-5994
 (504) 486-5901 FAX (504) 488-1714

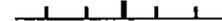


**DETAIL 7
FLOOD WALL AT EXIST.
COUSINS PUMPING STATION**

SCALE: 1" = 60'



LEGEND:

-  LEVEE RIGHT OF WAY
-  LEVEE BASELINE
-  DI DROP INLET
-  CRUSHED STONE SURFACE

PARISH OF ST. CHARLES
APPLICATION BY: PARISH OF ST. CHARLES

SHEET: 23 OF 31

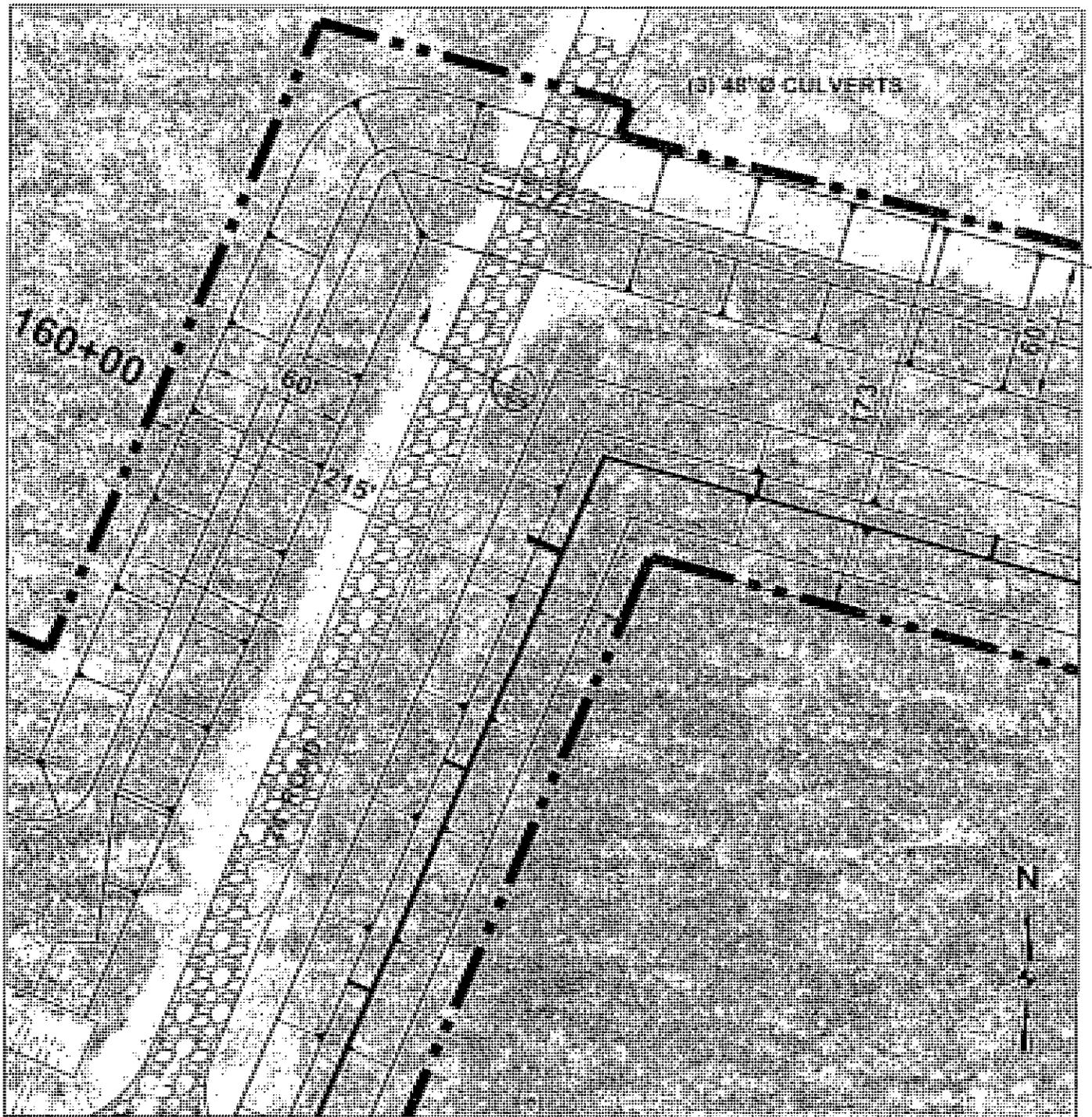
(ELLINGTON) DETAIL "7"

REV.	DATE	DESCRIPTION	BY
1	9/2014	REVISED R.O.W.	S.B.

BURK-KLEINPETER, INC.
ENGINEERS, ARCHITECTS, PLANNERS, ENVIRONMENTAL SCIENTISTS
4176 CANAL STREET, NEW ORLEANS, LOUISIANA 70119-5994
(504) 486-5301 FAX (504) 488-1714

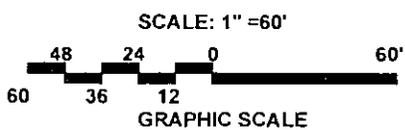
BKI PROJ. NO. 10475-0300

SEPTEMBER 2014



**DETAIL 8
ACCESS ROAD CROSSING**

SCALE: 1" = 60'



LEGEND:

-  LEVEE RIGHT OF WAY
-  LEVEE BASELINE
-  DI DROP INLET
-  CRUSHED STONE SURFACE

PARISH OF ST. CHARLES
APPLICATION BY: PARISH OF ST. CHARLES

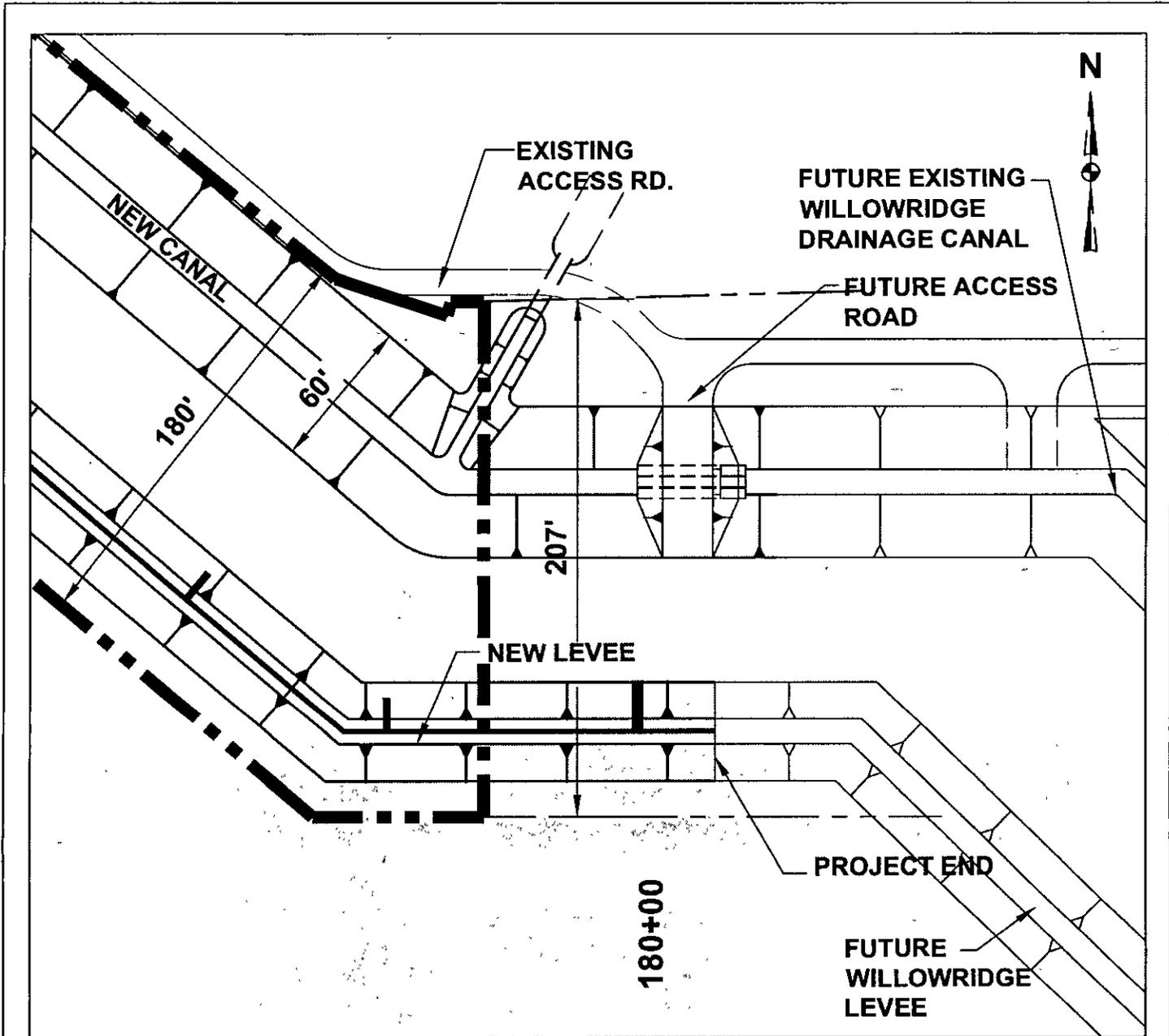
SHEET: 24 OF 31

(ELLINGTON) DETAIL "8"

BURK-KLEINPETER, INC.
ENGINEERS, ARCHITECTS, PLANNERS, ENVIRONMENTAL SCIENTISTS
4178 CANAL STREET, NEW ORLEANS, LOUISIANA 70119-5994
(504) 486-5901 FAX (504) 488-1714

BKI PROJ. NO. 10475-0300

SEPTEMBER 2014

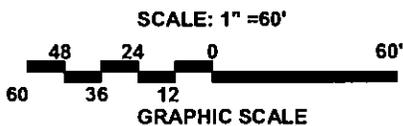


**DETAIL 9
CONNECTION TO EXISTING
WILLOWRIDGE LEVEL**

SCALE: 1" = 60'

LEGEND:

- LEVEE RIGHT OF WAY
- LEVEE BASELINE



PARISH OF ST. CHARLES
APPLICATION BY: PARISH OF ST. CHARLES

SHEET: 25 OF 31

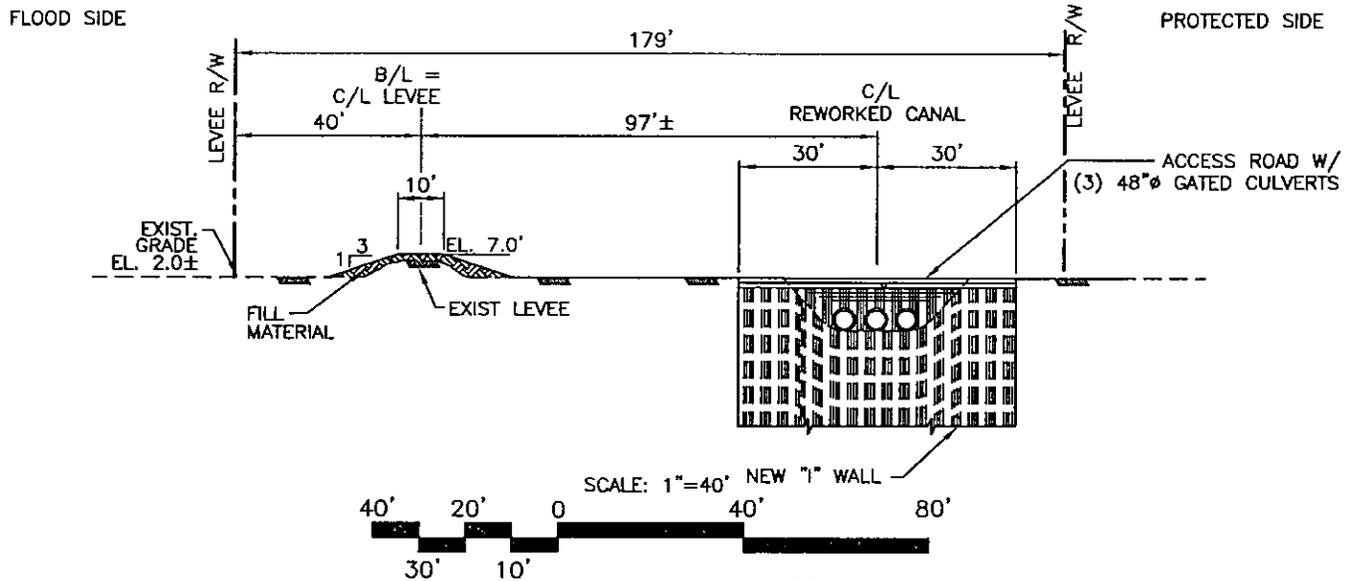
(ELLINGTON) DETAIL "9"

BURK-KLEINPETER, INC.
ENGINEERS, ARCHITECTS, PLANNERS, ENVIRONMENTAL SCIENTISTS
4178 CANAL STREET, NEW ORLEANS, LOUISIANA 70119-5994
(504) 486-5901 FAX (504) 488-1714

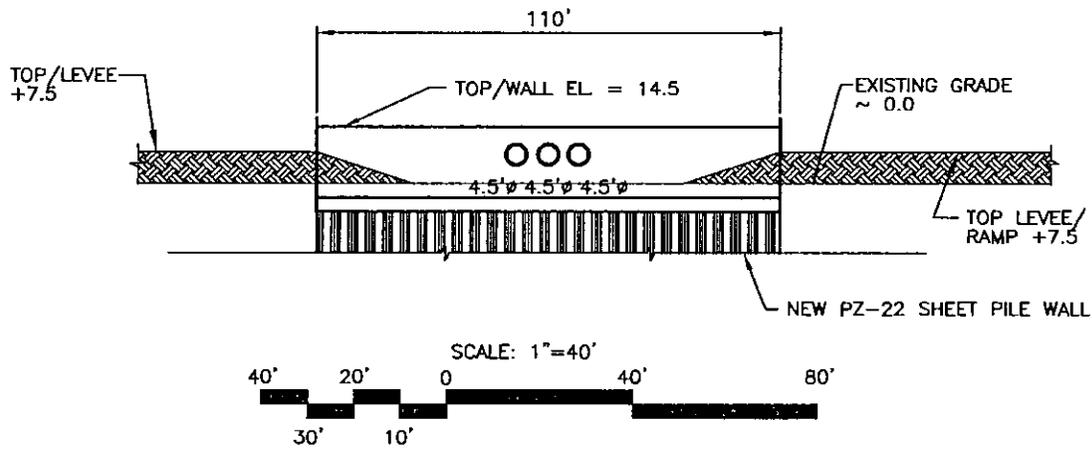
BKI PROJ. NO. 10475-0300

SEPTEMBER 2014

PROPOSED HURRICANE PROTECTION LEVEE ELLINGTON AREA ST. CHARLES PARISH, LOUISIANA



ELEVATION A
ACCESS ROAD W/ GATED CULVERTS



ELEVATION
KELLOGG PUMPING STATION
T-WALL

NOTE:
ELEVATIONS ARE NAVD88

PARISH OF ST. CHARLES
APPLICATION BY: PARISH OF ST. CHARLES
SHEET: 26 OF 31

ELEVATION "A"

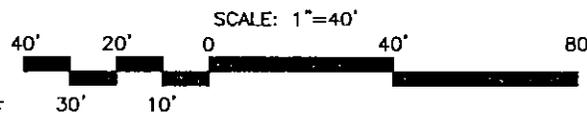
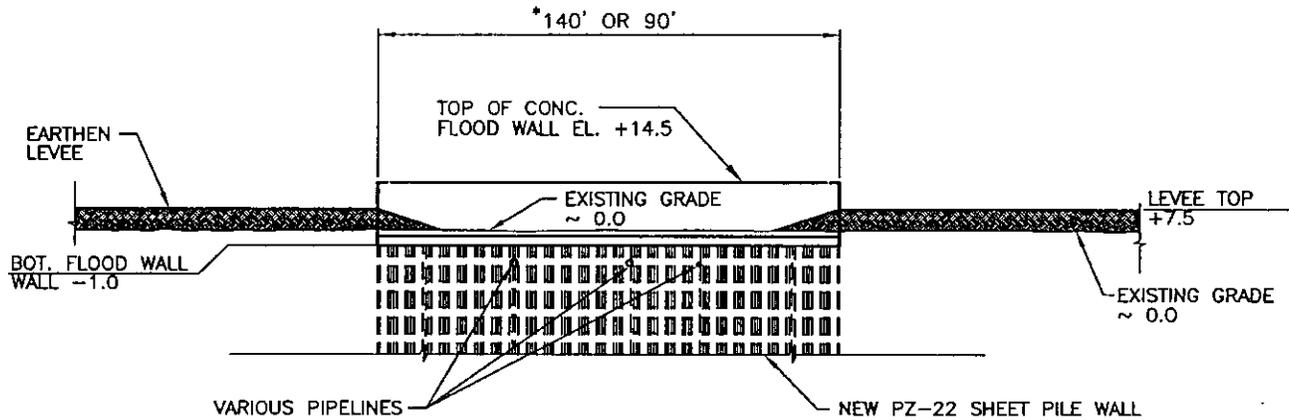
REV.	DATE	DESCRIPTION	BY
1	9/2014	REVISED R.O.W.	S.B.

BURK-KLEINPETER, INC.
ENGINEERS, ARCHITECTS, PLANNERS, ENVIRONMENTAL SCIENTISTS
4176 CANAL STREET, NEW ORLEANS, LOUISIANA 70119-5994
(504) 486-3901 FAX (504) 488-1714

BKI PROJ. NO. 10475-0300

SEPTEMBER 2014

PROPOSED HURRICANE PROTECTION LEVEE ELLINGTON AREA ST. CHARLES PARISH, LOUISIANA



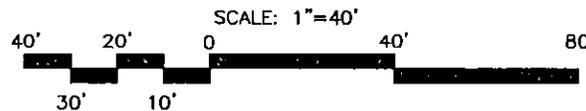
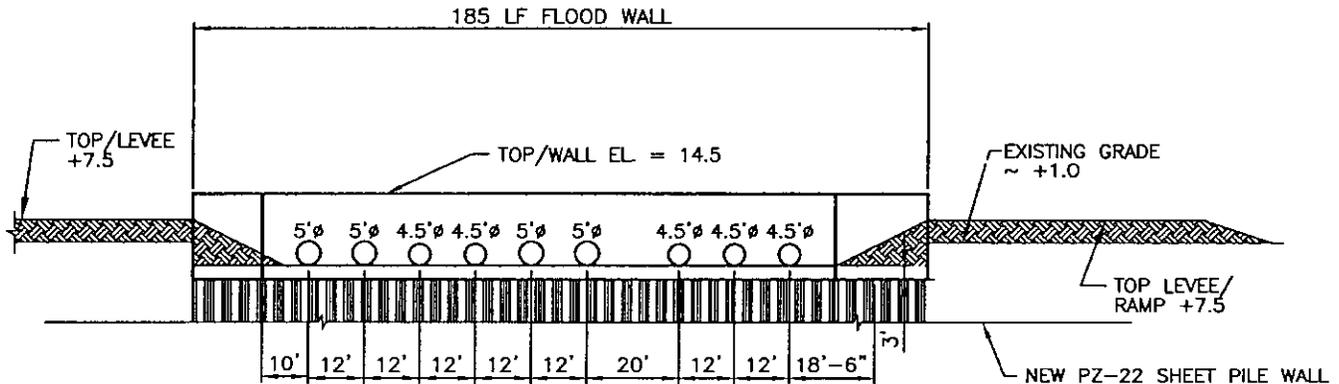
* 140' FOR FOUR GAS PIPELINE CROSSINGS AND 90' FOR SINGLE GAS PIPELINE CROSSING

LEGEND:



ELEVATION B
20/27 B
22/27

FLOOD WALL AT PIPELINE CROSSINGS (TYP.)



ELEVATION C
23/27

T-WALL AT COUSINS PUMP STATION

NOTE:
ELEVATIONS ARE NAVD88

PARISH OF ST. CHARLES
APPLICATION BY: PARISH OF ST. CHARLES

SHEET: 27 OF 31

ELEVATIONS "B" & "C"

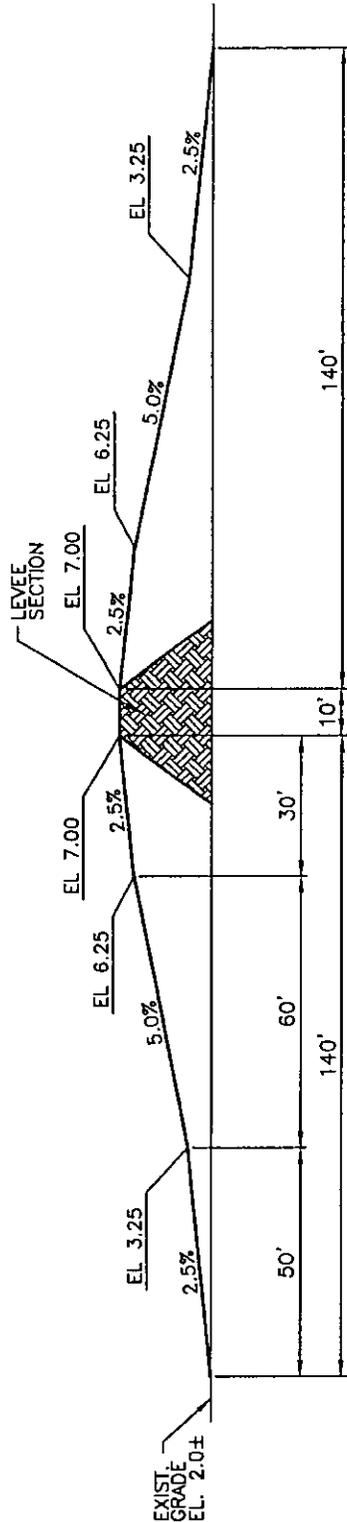
REV	DATE	DESCRIPTION	BY
1	9/2014	REVISED R.O.W.	S.B.

BURK-KLEINPETER, INC.
ENGINEERS, ARCHITECTS, PLANNERS, ENVIRONMENTAL SCIENTISTS
4178 CANAL STREET, NEW ORLEANS, LOUISIANA 70119-5994
(504) 488-5901 FAX (504) 488-1714

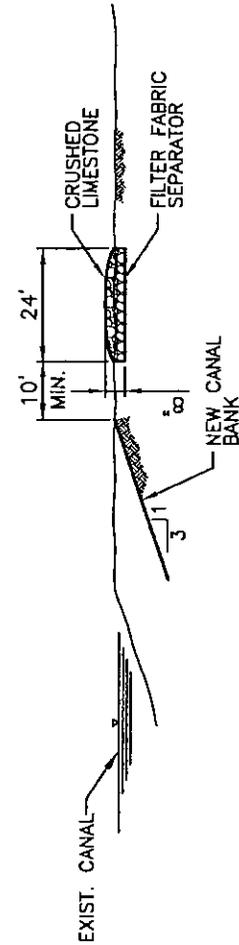
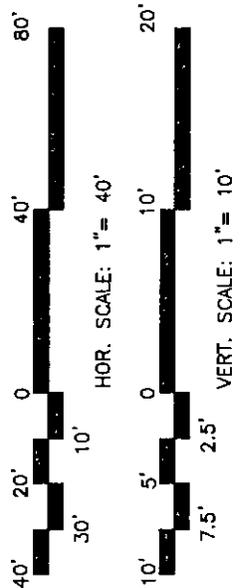
BKI PROJ. NO. 10475-0300

SEPTEMBER 2014

PROPOSED HURRICANE PROTECTION LEVEE ELLINGTON AREA ST. CHARLES PARISH, LOUISIANA



ELEVATION D 23/28 EARTHEN RAMP AT COUSINS PUMP STATION



CROSS SECTION OF NEW ROADWAY 8 24/28 AT COUSINS PUMPING STATION

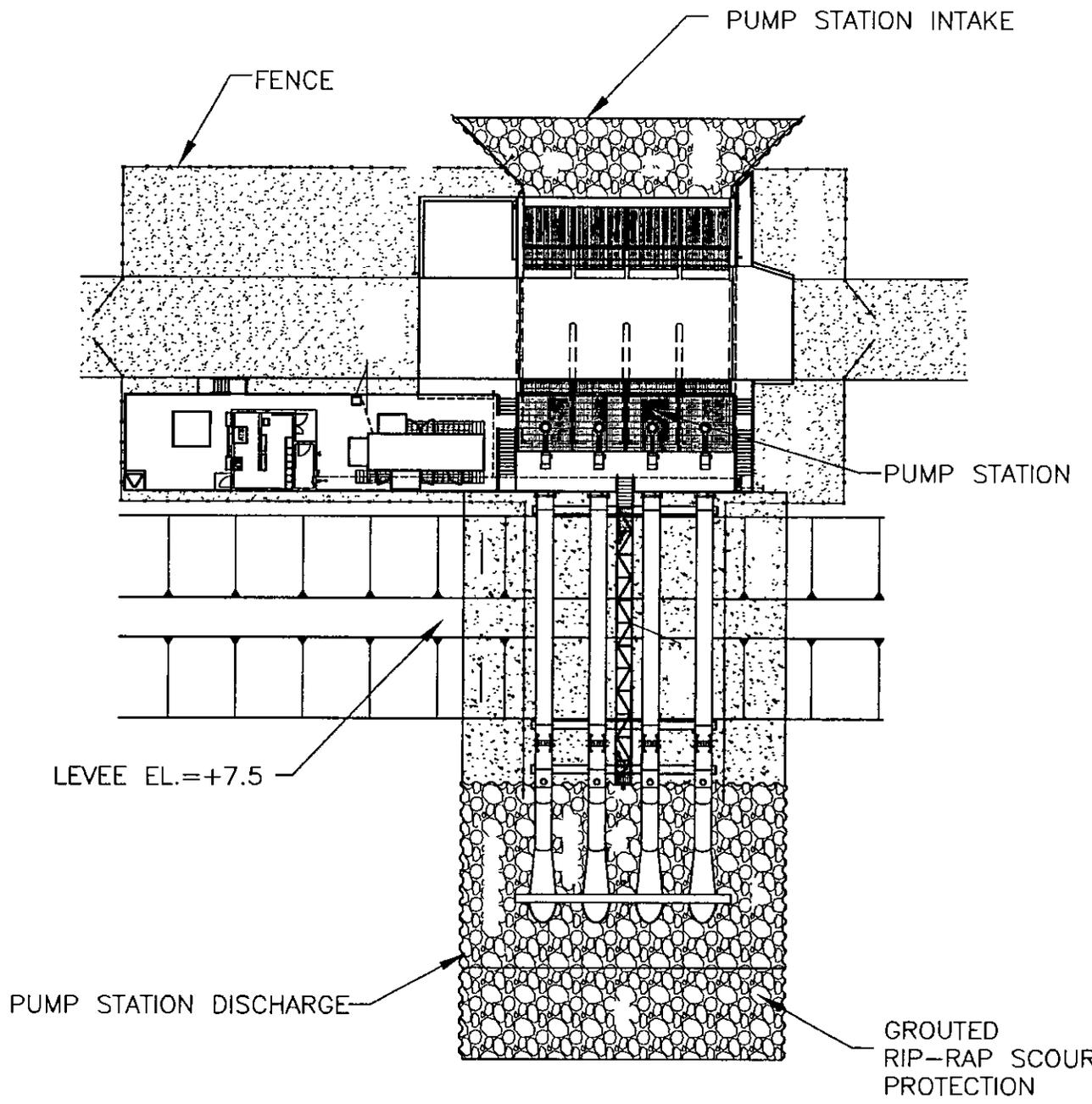
SCALE: N.T.S.

NOTE:
ELEVATIONS ARE NAVD88

PARISH OF ST. CHARLES
APPLICATION BY: PARISH OF ST. CHARLES
SHEET: 28 OF 31

ELEVATION "D"

REV.	DATE	DESCRIPTION	BY
1	9/2014	REVISED R.O.W.	S.B.
BURK-KLEINPETER, INC. ENGINEERS, ARCHITECTS, PLANNERS, ENVIRONMENTAL SCIENTISTS 4176 CANAL STREET, NEW ORLEANS, LOUISIANA 70119-5994 (504) 486-5901 FAX (504) 488-1714			
BKI PROJ. NO. 10475-0300			SEPTEMBER 2014



ELLINGTON PUMPING STATION PLAN

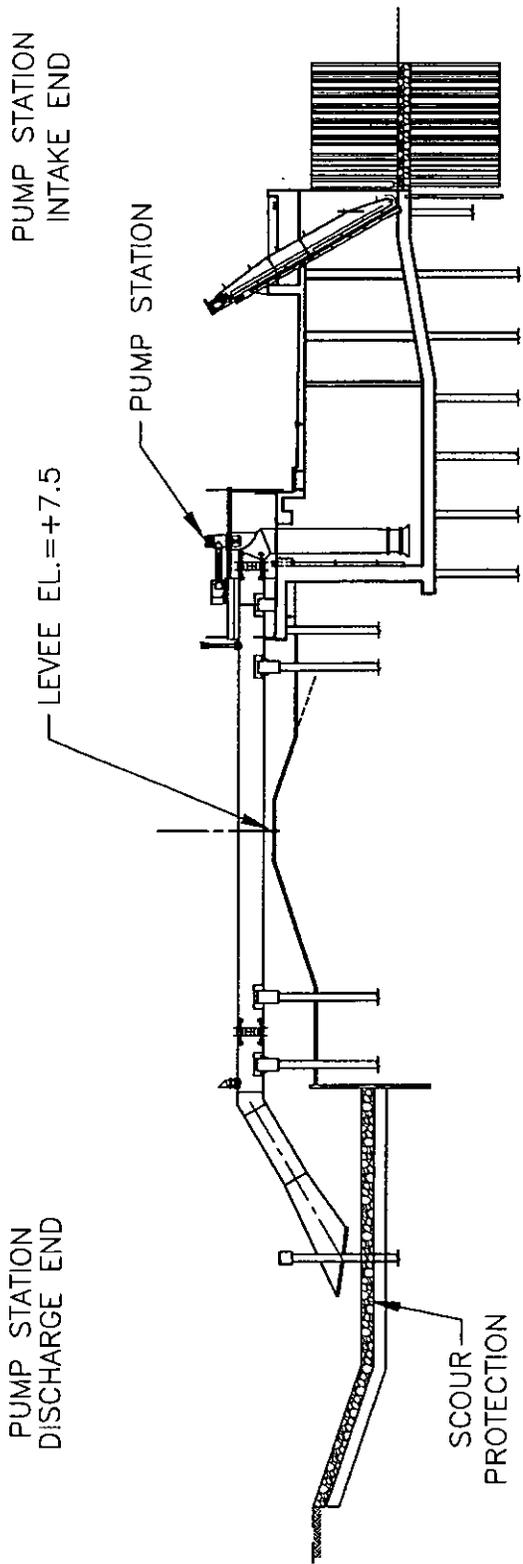
SCALE: 1"=40'



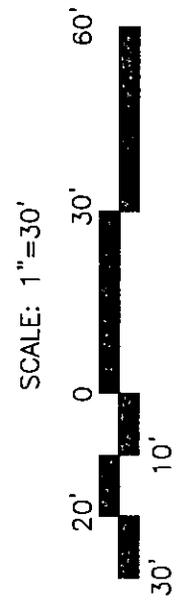
REV.	DATE	DESCRIPTION	BY
1	9/2014	REVISED PUMPING STATION PLAN	S.B.

ELLINGTON REACH
 APPLICATION BY: **PARISH OF ST. CHARLES**
 SHEET: 29 OF 31 ELLINGTON PUMPING STATION PLAN

BURK-KLEINPETER, INC.
 ENGINEERS, ARCHITECTS, PLANNERS, ENVIRONMENTAL SCIENTISTS
 4176 CANAL STREET, NEW ORLEANS, LOUISIANA 70119-5994
 (504) 486-5901 FAX (504) 488-1714
BKI PROJ. NO. 10475-0300 SEPTEMBER 2014



ELLINGTON PUMPING STATION SECTION



ELLINGTON REACH

APPLICATION BY:

PARISH OF ST. CHARLES

SHEET: 30 OF 31

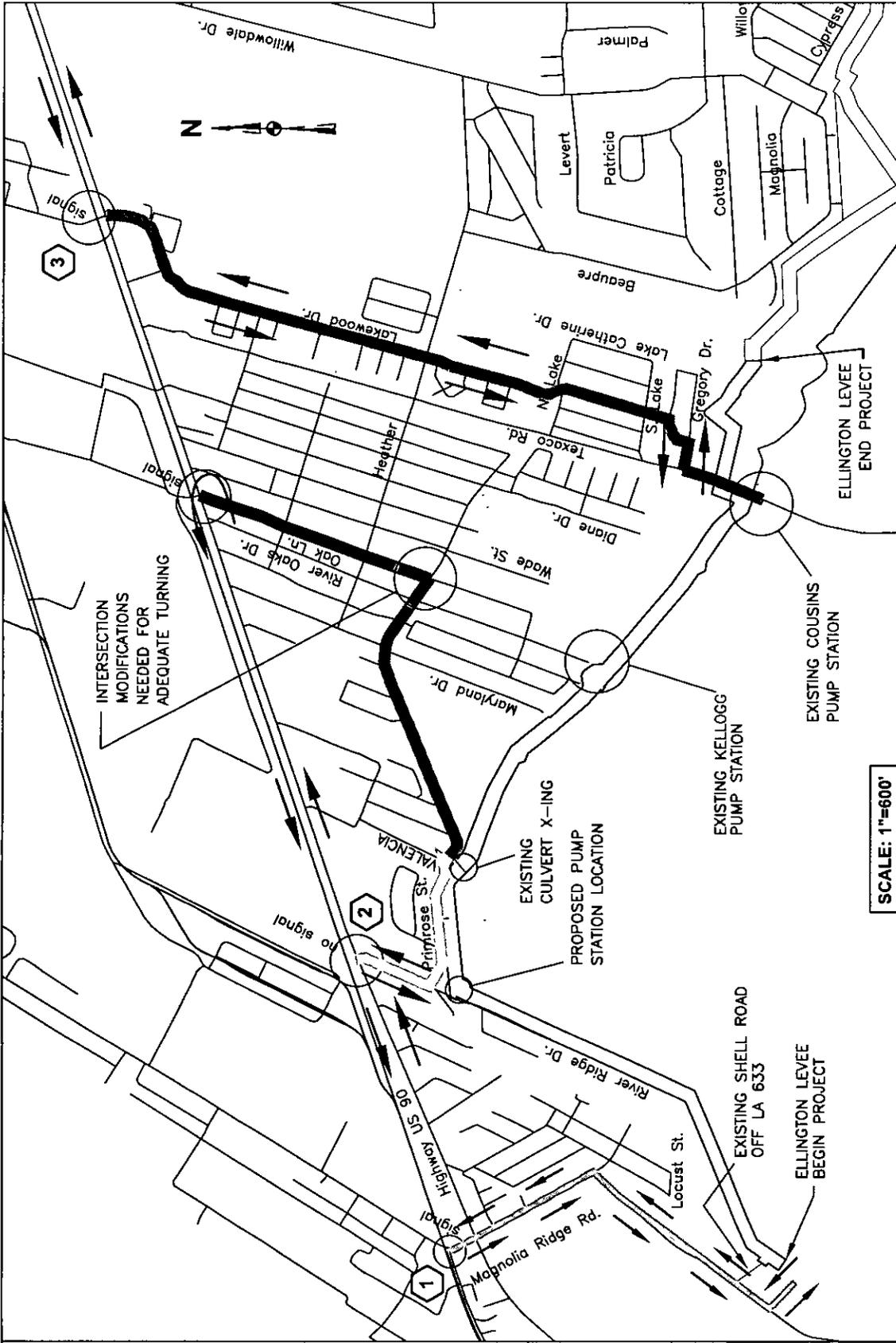
ELLINGTON PUMPING STATION SECTION

REV. 1	DATE 9/2014	DESCRIPTION REVISED PUMPING STATION SECTION	BY S.B.
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BURK-KLEINPETER, INC.
 ENGINEERS, ARCHITECTS, PLANNERS, ENVIRONMENTAL SCIENTISTS
 4178 CANAL STREET, NEW ORLEANS, LOUISIANA 70119-5994
 (504) 486-5901 FAX (504) 488-1714

BKI PROJ. NO. 10475-0300

SEPTEMBER 2014



NOTES

- ① ENTRY & EXIT LA633 (0.62 MILES TO ACCESS ROAD FROM US 90)
- ② ENTRY RIVER RIDGE DR. FOR EXIT, NO LEFT TURN EXISTING VEHICLES MUST TURN RIGHT & MAKE U-TURN OAK LANE SIGNAL (0.52 MILES TO CULVERT FROM US 90)
- ③ ENTRY & EXIT LAKEWOOD DRIVE (1.75 MILES TO TEXACO ROAD FROM US 90)

ACCESS ROUTE/ENTRY AND EXIT POINTS UNDER CONSIDERATION

- ① LA 633 @ US 90 (MAGNOLIA RIDGE ROAD) (SIGNALIZED)
- ② RIVER RIDGE DR. @ US 90 (NOT SIGNALIZED)
- ③ OAK LN. @ US 90 (SIGNALIZED) (TOO NARROW AT PRIMROSE)
- LAKEWOOD DR @ US 90 (SIGNALIZED)

SCALE: 1"=600'

PARISH OF ST. CHARLES
 APPLICATION BY: PARISH OF ST. CHARLES
 SHEET: 31 OF 31 ELLINGTON LEVEE HAUL ROUTES

REV. 1	DATE 9/2014	DESCRIPTION REVISED HAUL ROUTES	BY S.B.
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BURK-KLEINPETER, INC.
 ENGINEERS, ARCHITECTS, PLANNERS, ENVIRONMENTAL SCIENTISTS
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BKI PROJ. NO. 10475-0300 SEPTEMBER 2014

Phase III Ellington - West Bank Hurricane Protection Levee, St. Charles Parish, Louisiana

Vicinity Map



N



Legend

Revised Permit Limits

Habitat Type

BLH - 2.02 Acres

CYP - 7.05 Acres

FM - 0.25 Acres



Infra-Red U.S. Geological Survey Aerial Image
Dated October 27, 2005; Released March 21, 2006

Phase III Ellington - West Bank Hurricane Protection Levee, St. Charles Parish, Louisiana

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Vicinity Map



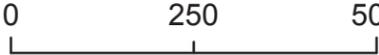
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Legend

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December 30, 2014

Mr. Brad LaBorde
US Army Corps of Engineers
New Orleans District Regulatory Branch
P.O. Box 60267
New Orleans, LA 70160-0267

Mr. Ontario James
LA Department of Natural Resources
Office of Coastal Management
P.O. Box 44487
Baton Rouge Louisiana 70821-4487

**RE: Request for Modification of Permit Authorizations
Phase III – Ellington, West Bank Hurricane Protection Levee
St. Charles Parish, Louisiana
MVN-2010-2326-EOO & P20100821**

Dear Sirs,

As discussed in the meeting at the U.S. Army Corps of Engineers, New Orleans District Office on August 5, 2014, modifications have been made to the design of the Phase III Ellington levee project, which is part of the West Bank Hurricane Protection Levee in St. Charles Parish, LA.

Please find enclosed an updated and revised set of permit application drawings dated September 2014 for the Ellington levee project (**MVN-2010-2326-EOO & P20100821**). The enclosed drawings reflect the changes proposed by St. Charles Parish to the permit authorizations that will facilitate construction and improve upon the design of the flood control project.

The below letter provides a summary of the proposed changes to the permit authorizations, a justification for each of the primary modification requests, and proposes a compensatory wetland mitigation plan for the additional 9.3 acres of jurisdictional wetlands that would be permanently impacted by the modifications.

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Summary of Proposed Changes

1. Additional coordinate points have been added and locations of coordinate points have been updated based on the updated design [Sheets 3-6].
2. Increase the right-of-way width and limits of construction by ~20 feet from Station No. 10+00 to the pumping station located between Station Nos. 65+00 and 70+00 for a total right-of-way width of ~200 feet. The increased right-of-way width allows for site dewatering, accommodates revised design requirements developed based on geotechnical investigation, and accommodates a new access and maintenance road. [Sheets 8-9].
3. Shift the t-wall and discharge pipes for the new pumping station located between Station Nos. 65+00 and 70+00 out in order to allow for adequate pile spacing to build to 100-year level of storm protection [Sheet 8].
4. Increase the right-of-way width and limits of construction by ~46 feet from Station No. 70+00 to the flood wall at pipeline crossing located between Station Nos. 100+00 and 110+00 for a total right-of-way width of ~226 feet. The increased right-of-way width allows for site dewatering, accommodates revised design requirements developed based on geotechnical investigation, and accommodates a new access and maintenance road [Sheets 9-10].
5. Shift the t-wall out at the pipeline crossing located between Station Nos. 100+00 and 110+00 out in order to allow for adequate pile spacing to build to 100-year level of storm protection [Sheets 10 and 27].
6. Increase the right-of-way width and limits of construction by ~40 feet from the pipeline crossing located between Station Nos. 100+00 and 110+00 to the pumping station located near Station No. 125+00 for a total right-of-way width of between 229 and 221 feet. The increased right-of-way width allows for site dewatering, accommodates revised design requirements developed based on geotechnical investigation, and accommodates a new access and maintenance road and the continuation of the levee from the new floodwall location. [Sheet 10].
7. Shift the t-wall and discharge pipes for the pumping station located near Station No. 125+00 out in order to allow for adequate pile spacing to build to 100-year level of storm protection [Sheet 11].
8. Increase the right-of-way width and limits of construction by ~47 feet from the pumping station located near Station No. 125+00 to the pipe line crossing near Station No. 145+00 for a total right-of-way width of ~227 feet. The increased right-of-way width allows for site dewatering, accommodates revised design



requirements developed based on geotechnical investigation, and accommodates a new access and maintenance road. [Sheet 11].

9. Shift the t-wall out at the pipeline crossing located near Station No. 145+00 out in order to allow for adequate pile spacing to build to 100-year level of storm protection [Sheets 11 and 27].
10. Increase the right-of-way width and limits of construction by ~47 feet from the pipe line crossing near Station No. 145+00 to the Cousins pumping station near Station No. 155+00 for a total right-of-way width of ~227 feet. The increased right-of-way width allows for site dewatering, accommodates revised design requirements developed based on geotechnical investigation, and accommodates a new access and maintenance road. [Sheet 11].
11. Shift the t-wall and discharge pipes for the Cousins pumping station located near Station No. 155+00 out in order to allow for adequate pile spacing to build to 100-year level of storm protection [Sheets 11, 12, and 23].
12. Quantities of materials for the proposed modified design are listed in below:

	Quantity for Modified Permit in cubic yards
Total Dredged Material	230,500
Total Fill Material	231,500
Total Fill Material Hauled in from Offsite	24,500
Total Granular Material for Access Roads	29,000
Total Surfacing Material for Access Roads	10,000
Total Material Hauled Offsite to Approved Disposal Area	23,500

Project Justifications for Permit Revisions

Increased Right-of-Way and Limits of Construction

1. Proposed construction of the Phase III Ellington levee project has benefitted from the experience gained during construction of previous phases of the West Bank Hurricane Protection Levee. Due to the proposed construction activities being located in an area with direct tidal influence, the use of a dewatering berm is required to construct the levee project. Standing tidewaters will require the construction of a +3.5 foot berm along the flood-side perimeter of the work area, requiring an ~18 foot-right of-way. The dewatering berm is depicted in Typical Sections on Sheets 13 to 17 and is necessary to keep the area dry during



construction. The right-of-way previously included 15 feet from the toe of the levee towards the flood side. The redesign to include the dewatering berm is an ~3 foot increase to the right-of-way on the flood side.

2. Additionally, geotechnical investigation by Eustis Engineering determined that for the currently proposed +7.5 foot levee, the centerline of the levee needed to be 95' from the centerline of the canal. However, because the Parish has plans to lift the levee to a height of +12.5 feet in order to reach 100-year level of storm protection, the design had to take into account the factor of safety for the future lift. When the levee lift is accomplished and the levee is built to +12.5 feet, the centerline of the levee needs to be 130' from the centerline of the canal bank, ~33 feet more than was included in the original design. This design requirement necessitates pushing the right-of-way out towards the flood side of the levee, away from the canal.
3. Based on design recommendations developed from the geotechnical investigation by Eustis Engineering, the slope of the levee on the flood side had to be adjusted, increasing the levee width by ~4.5 feet from 23 feet to 27.5 feet from the centerline of the levee to the toe of the levee on the flood side.
4. In addition, the Parish desires to construct an access corridor on the protected side of the levee which was made possible by the need to move the levee towards the flood side as a result of the geotechnical investigation. The ~25 foot wide access corridor would provide a working platform for transporting fill materials during construction and facilitate inspections, maintenance, and operation of the levee once completed.
5. There are some instances where an ~10 foot strip remnant of an acquired parcel on the protected side of the levee remains. Because it was necessary to purchase those strips of land as well, those properties have been incorporated into the right-of-way and account for some of the variation of right-of-way width beyond the standard ± 220 feet.

Shift in T-Wall Locations

1. At the time of the original permit application it was thought that the levee construction would eventually be assumed by the federal government through the Donaldsonville to the Gulf of Mexico Feasibility Study. Therefore, project structures were only being constructed to the same height as the initial earthen levee portions. Since that time, the Donaldsonville study came back without a project recommendation and the Parish has taken on the responsibility to construct a 100-year level of flood protection for the West Bank. As a result, the height of the t-wall structures had to be increased significantly to account for future levee conditions. The Parish has committed to providing a +12.5 foot level of flood



protection. For structure superiority, all hard structures (t-walls, floodgates, etc...) will be constructed with a +2 foot overbuild, resulting in a +14.5 foot structure. Due to the increased height of the structure, the t-wall location had to be shifted away from the pump station to provide sufficient room to drive piles under the t-wall foundation. The increase heights require longer piles driven to further depths forcing the t-wall base to be located further away to avoid conflicts with the existing piles supporting the pumping stations.

2. Similarly, the t-walls at pipeline crossings were redesigned to a +14.5 foot elevation in order to meet the 100-year level of flood protection in 50 years. Sufficient room was required to drive piles to further depths, requiring those t-walls to be pushed out towards the flood side of the levee.

Wetland Impacts and Mitigation Plan

The proposed permit modifications would result in an additional 9.3 acres of permanent wetland impacts beyond the originally authorized activity. All areas of wetland impacts are shown on the enclosed map entitled "Wetland Impact Map – Ellington Levee Permit Revisions" prepared by GCR Inc. dated December 30, 2014. For the 9.3 acres of wetland impacts, it is estimated that the habitat-type ratio is approximately 30% bottomland hardwood and 70% cypress-tupelo swamp. In order to offset these unavoidable wetland impacts, the Parish will obtain mitigation credits from an USACE and LDNR approved mitigation bank.

The "No Project Authorization" finding of the Donaldsonville to the Gulf of Mexico Feasibility Study resulted in necessary modifications to St. Charles Parish's West Bank levee initiative. As a result, the Parish is striving to increase the level of protection to meet flood insurance requirements for the next 25-50 years using only local and state resources. In order to control these project costs, the Parish needs to eliminate as much repetitive work from the project as possible. Constructing any hard structure to less than full design height (+12.5') will create duplicative work and increase the overall project costs. That, in addition to the lessons learned on the ground from ongoing construction activity on the Willowridge levee, resulted in the need to modify the current permit authorizations.

Please forward an invoice at your earliest convenience so that we may pay the fee for the permit modification.



Phase III – Ellington, West Bank Hurricane Protection Levee
MVN-2010-2326-EOO & P20100821
December 30, 2014
Page 6

If you have any questions, require additional information, or need to arrange payment of any permit application fees in order to begin processing this modification request, please contact me at llilly@gcrincorporated.com or on my direct line at (504) 304-0753. Thank you for your time and assistance with this important public works project.

Sincerely,

A handwritten signature in black ink, appearing to read "Lucas Lilly", with a stylized flourish at the end.

Lucas Lilly
Permit Agent
GCR Inc.

Enclosure(s)

cc: Sam Scholle, Director, Dept. of Public Works
Rennan Duffour, Project Manager, Dept. of Public Works
Mark Roberts, Vice-President, BKI Inc.
Sreeni Bollu, P.E., BKI Inc.