Alexandria to the Gulf Feasibility Study
Hynson and Sandy Bayou Drainage

February 2006

Summary
After meeting with Mr. Jim Tuttle and reviewing survey photos of the bayous and canals in the Alexandria City Limits, we feel that the improvement of existing drainage channels and possibly structures should be looked at as one of the alternatives, and should be incorporated with the short (pump) and long (gravity) diversions. While we feel the diversions are good alternatives, they may not have as desirable an impact if the flow is having a hard time getting out of the city to begin with. Looking at the survey photos, it appears that Horseshoe Canal and Chatlin Lake Canal are in fairly good condition, but that Hynson Bayou and Sandy Bayou could be improved. I am uncertain of the dates of the photos and if the ponded water is a normal condition, but following are a few photos of drainage structures and Hynson Bayou and Sandy Bayou with profiles of both Bayous and plan showing locations of photos.

Hynson Bayou
The upper end of Hynson Bayou appears to have standing water and vegetation creating a sluggish flow and inefficient drainage structures (see pictures 12A, 13A and 14B). Picture 16B shows a bridge at Carol Court that has sediment under the bridge that could be ponding water upstream (US) and meandering bottom downstream (DS). Picture 20 shows collection of debris at a utility crossing. The bayou is concrete lined from Houston St to DS of the I-49 Railroad bridge as shown in pictures 27A and 29B, but 29B also shows the ponding of water caused by a higher earthen channel bottom at the end of the concrete lining. Picture 35A shows the bayou with water at Eddie Williams Bridge, a CMP crossing the bayou and collecting debris in the Durawood plant in picture 36A, and double 9'x9' RCBC about half full in picture 37A. Pictures 39A shows a 78" steel pipe and picture 41 shows a 66"x102" CMPA in the Durawood plant. These pipes are just downstream of the double 9'x9'RCBC and could be severely restricting the flow. At Willow Glen there is a triple 10'x9' appears in good condition, and then the channel really opens up downstream. The replacement of the 2 pipe structures in the Durawood plant and channel improvements upstream of these pipes should be investigated.

Sandy Bayou
As in Hynson Bayou, the upper end of Sandy Bayou appears to have standing water, vegetation, and silted channel causing inefficient flow through drainage structures (see pictures 4A, 5A, 6B and 7B). Picture 10B shows the outlet under Daspit St and the inlet appears in good condition also as do the pipes at Bennett St. Pictures 11A and 11B show the inlet and outlet of the pump structure at the connection with Chatlin Lake Canal. Channel improvement from Richmond Dr upstream should be investigated, as should the efficiency of the pump structure at Chatlin Lake.

SURVEY PHOTO NUMBER

--- BASIN BOUNDARY

SCALE: 1" = 1500'

1500' 0 1500'

N

HYNSON BAYOU

CONC PAVING

HORSESHOE CANAL

CHATLIN LAKE

SANDY BAYOU

ACADIAN VILLAGE

CITY PARK

GARDEN DIST.

SO. ALEX. LAND CO.

GREEN OAK

PARKWAY

(CHEATHAM PARK)

(FRANK HUNTER PARK)

(BRINGHURST PARK AREA)

MAC ARTHUR VILL.

POWER CENTER

ALEXANDRIA MALL

GREENWAY PARK

WOODSIDE

SAMTOWN

CITY WASTEWATER TREATMENT AND MAIN OFFICES

ST. FRANCIS CABRINI HOSPITAL

L.D.O.T.D. DIST. 8 HEADQUARTERS

MAC ARTHUR DRIVE SOUTH TRAFFIC CIRCLE

KANSAS CITY SOUTHERN RAILROAD

UNION & PACIFIC RAILROAD YARD

SUGAR HOUSE ROAD (CITY LIMITS)

RIVER LEVEE (CITY LIMITS)

12A 13A 14B 16B 20 27A 36A 37A 35A 29B 39A 41 11B 11A 10B 7B 6B 4A 5A

GRAVITY DRAINAGE DISTRICT #1
ALEXANDRIA, LA

U.S. ARMY CORPS OF ENGINEERS
NEW ORLEANS DISTRICT

MM L&H

ALEXANDRIA, LOUISIANA TO THE GULF OF MEXICO
CHATLIN LAKE CANAL DRAIANGE FEASIBILITY STUDY
RAPIDES PARISH, LOUISIANA

HYNSON & SANDY BAYOU PHOTO INDEX

DWG. NO.

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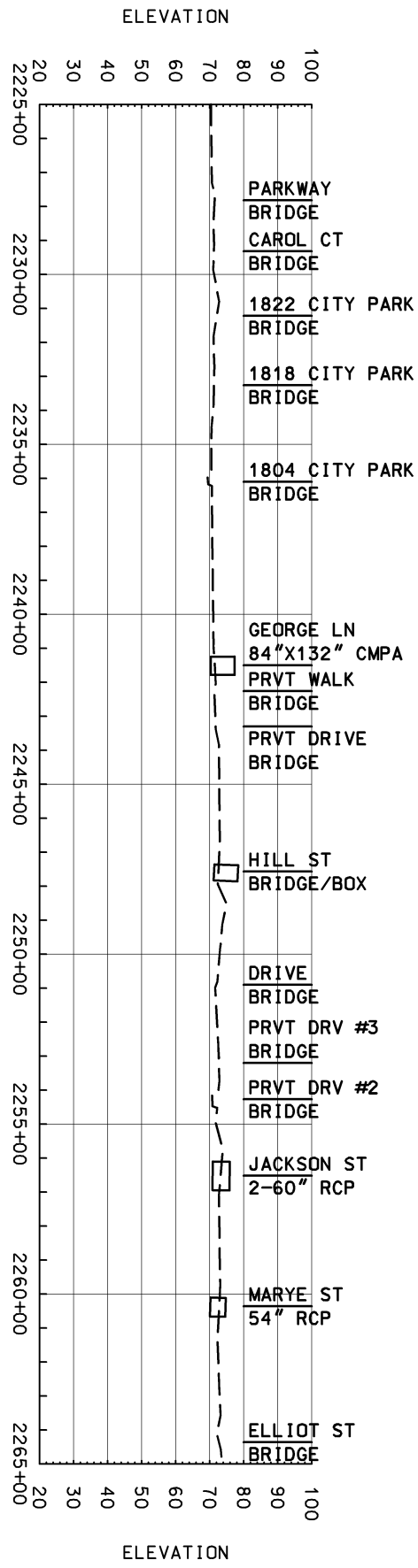

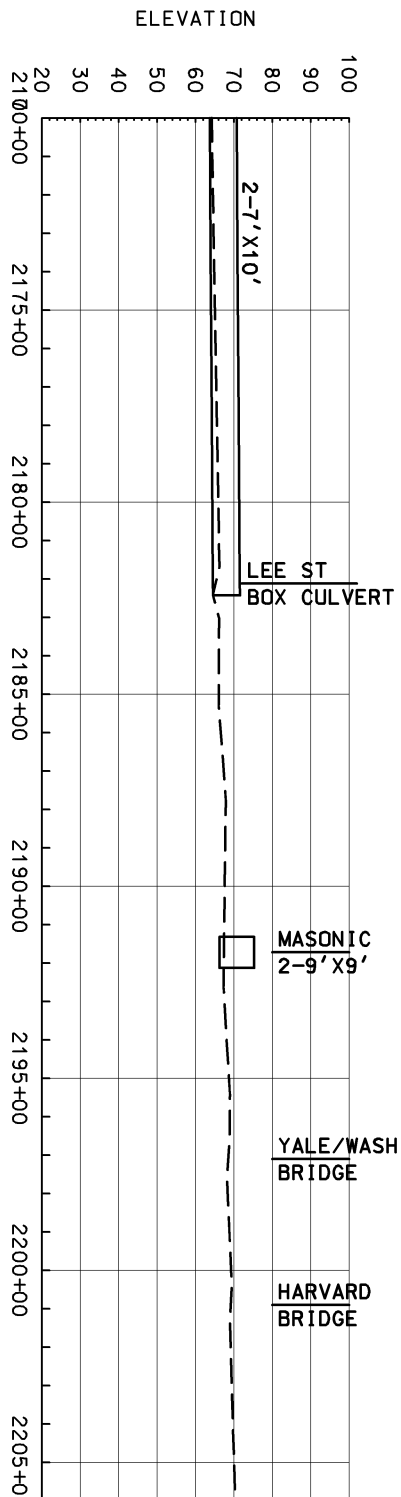

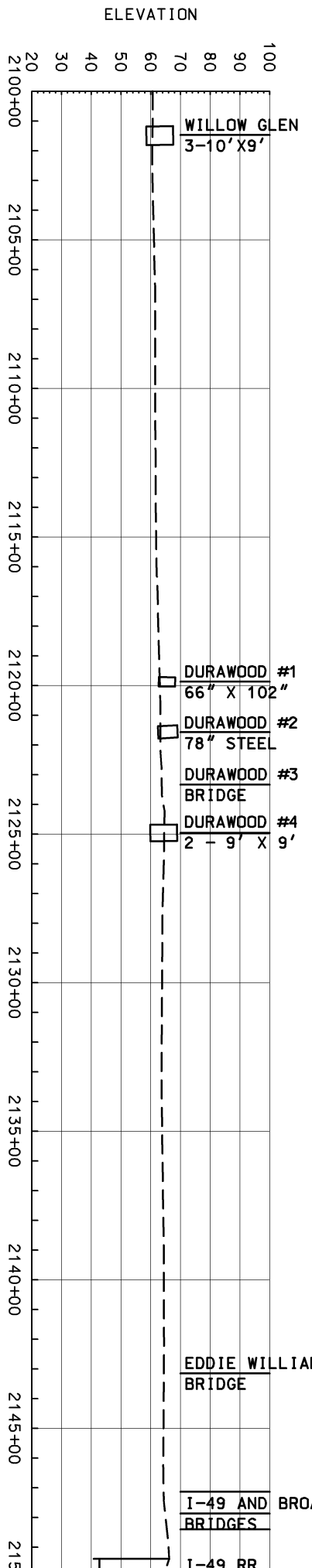

HYNSON BAYOU

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CHATLIN LAKE CANAL DRAIANGE FEASIBILITY STUDY
RAPIDES PARISH, LOUISIANA

HYNSON BAYOU PROFILE

STA. 2100+00 TO STA. 2265+00

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ALEXANDRIA, LA

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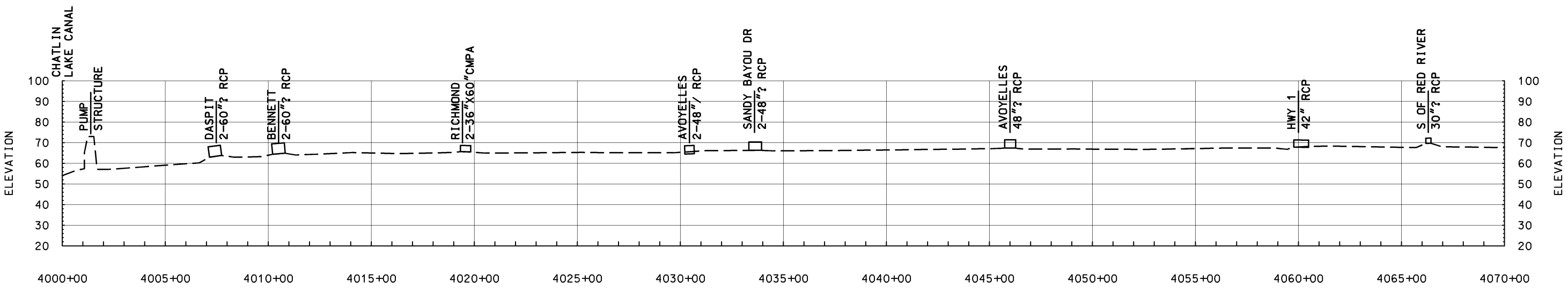

SANDY BAYOU

GRAVITY DRAINAGE
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ALEXANDRIA, LOUISIANA TO THE GULF OF MEXICO
CHATLIN LAKE CANAL DRAIANGE FEASIBILITY STUDY
RAPIDES PARISH, LOUISIANA

SANDY BAYOU PROFILE

DWG. NO.

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HYNSON BAYOU

(12A) 2241+50 George's Lane (US View) – 84"x132" CMPA

(13A) 2236+10 1804 City Park (US View) - Triple 60" RCP

(14B) 2233+26 1818 City Park (DS View) – Bridge

(16B) 2229+32 Carol Court (DS View) – Bridge

(20) 2211+50 City Park Utility Crossing

(27A) 2162+14 Mill St (DS View) – Double 7’x10’ RCBC

(29B) 2149+95 I-49 RR (DS View) – Bridge

(35A) 2143+15 Eddie Williams (US View) - Bridge

(36A) 2126+00 Durawood (US View) – CMP crossing

(37A) 2124+96 Durawood #4 (US View) – Double 9'x9' RCBC

(39A) 2121+57 Durawood #2 (US View) – 78” Steel

(41) 2119+87 Durawood #1 (DS View) – 66”x102” and CMP crossing

SANDY BAYOU

(4A) 4046+00 Avoyelles Dr (US View) – 42” RCP

(5A) 4033+60 Sandy Bayou Dr (US View) – Double 42” RCP

(6B) 4030+44 Avoyelles Dr (DS View) - Double 42” RCP

(7B) 4019+42 Richmond Dr (DS View) – Double 36” x 60” CMPA

(10B) 4007+47 Daspit St (DS View) – Double 60" RCP

(11A) 4001+70 Inlet to Pump Structure Chatlin Lake Canal

6’ x 8’ RCBC and 6’ x 10’ RCBC

(11B) 4001+10 Outlet to Pump Structure Chatlin Lake Canal
30” Steel