

**APPENDIX D
ENGINEERING DESIGN AND ANALYSIS**

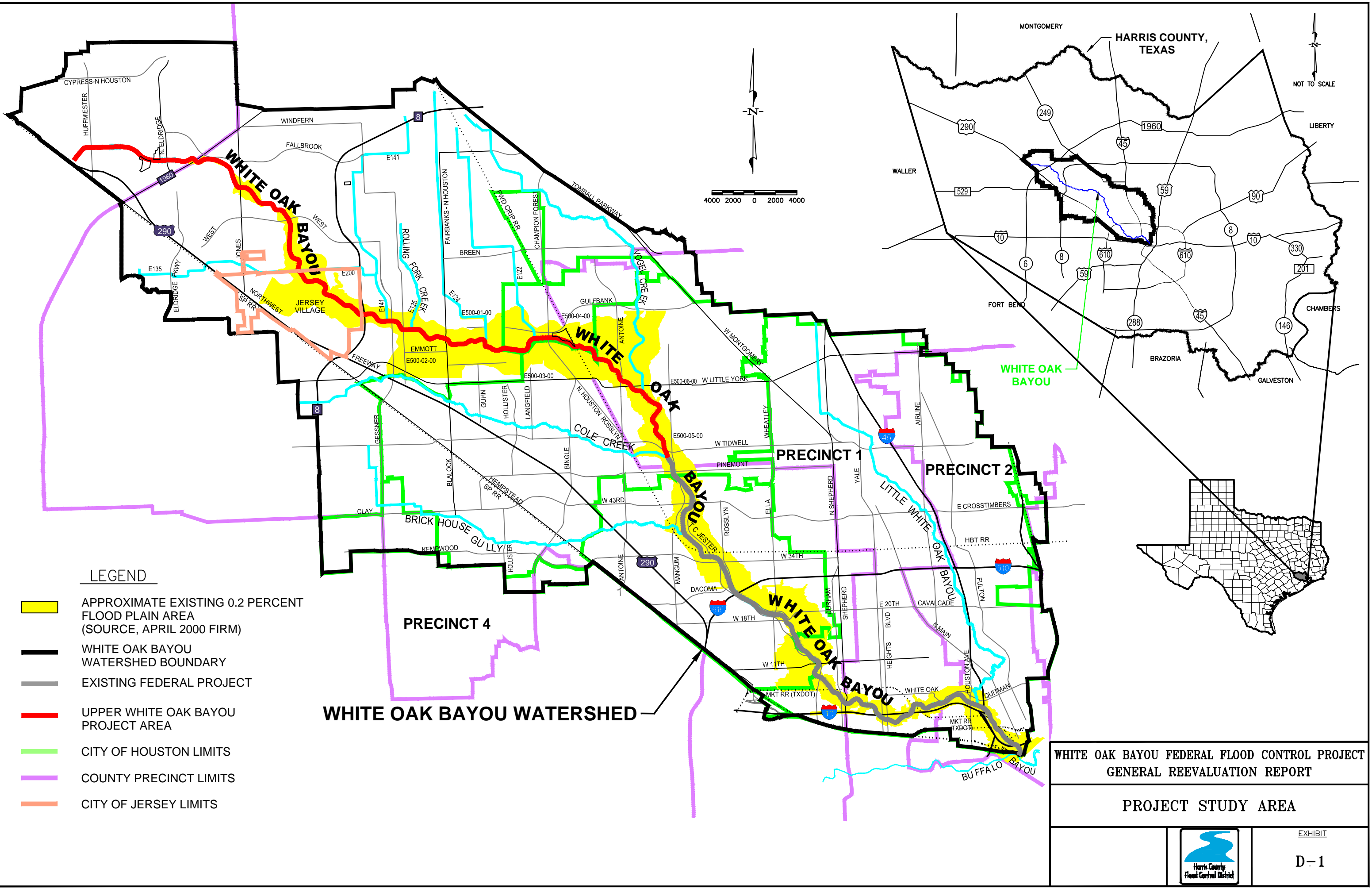
PART 1 – EXHIBITS 1 - 10

LIST OF EXHIBITS

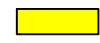






EXHIBIT NO.

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FILE INFO: I:\Projects\10344\1607\APPENDIX D\EXHIBITS\0-1\0-1.dwg XREFS: STREET2.dwg; WOB2.dwg; WOB-CUBI; PRECINCTS; JERSEYVILLAGE_LIMITS MODIFIED: Sep 14, 2012 8:22am BY: sgonchar PLOTTED: Sep 14, 2012 4:03pm PLOT SCALE: 1=4000



LEGEND

-  APPROXIMATE EXISTING 0.2 PERCENT FLOOD PLAIN AREA (SOURCE, APRIL 2000 FIRM)
-  WHITE OAK BAYOU WATERSHED BOUNDARY
-  EXISTING FEDERAL PROJECT
-  UPPER WHITE OAK BAYOU PROJECT AREA
-  CITY OF HOUSTON LIMITS
-  COUNTY PRECINCT LIMITS
-  CITY OF JERSEY LIMITS

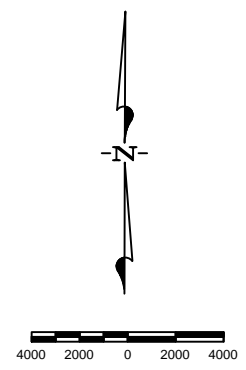
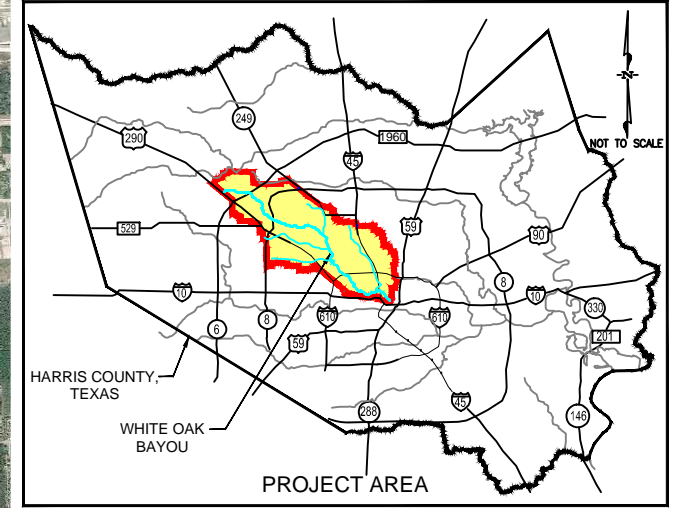
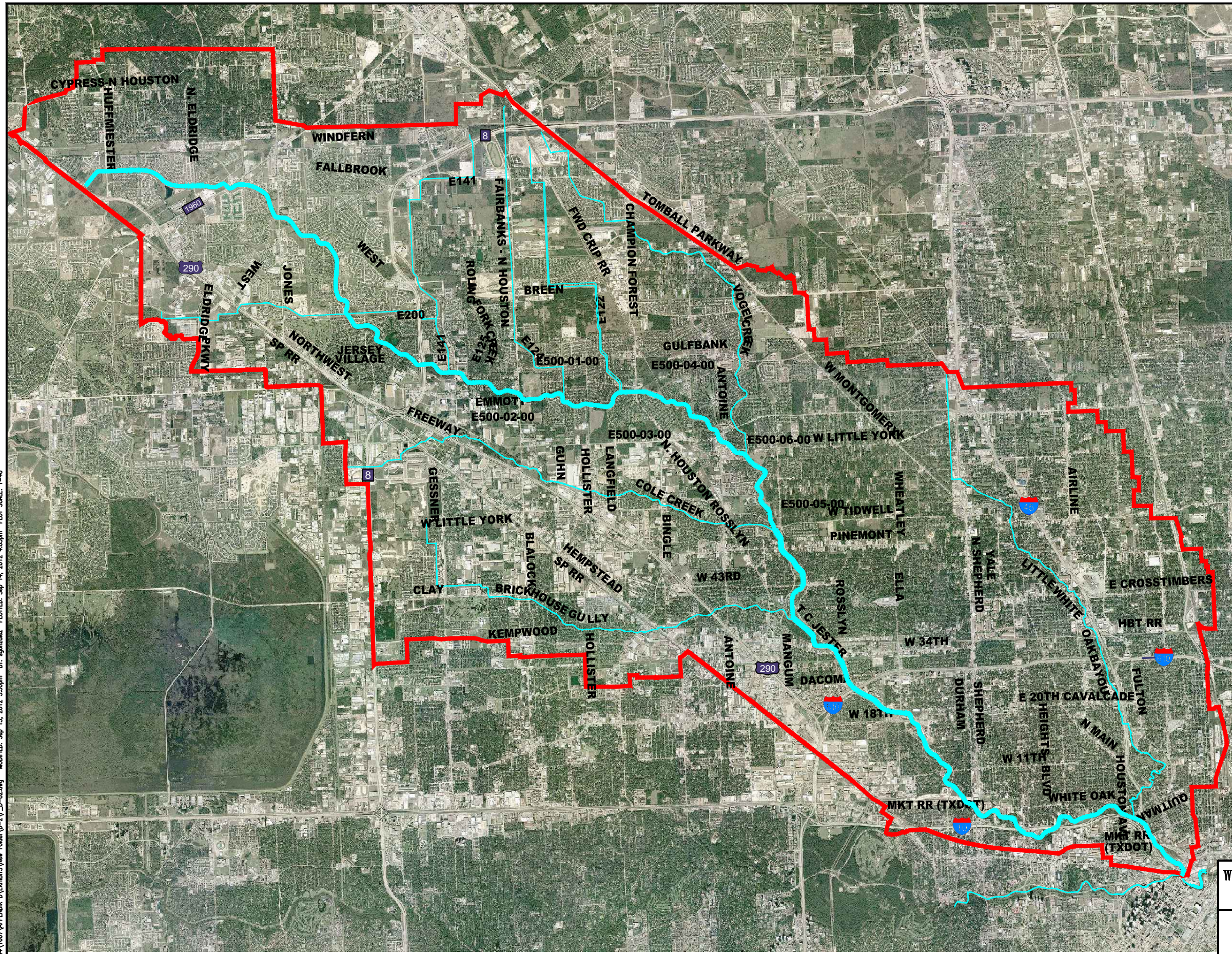
WHITE OAK BAYOU FEDERAL FLOOD CONTROL PROJECT
GENERAL REEVALUATION REPORT

PROJECT STUDY AREA



EXHIBIT
D-1

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LEGEND

- WHITE OAK BAYOU & TRIBUTARIES
- WATERSHED BOUNDARY

WHITE OAK BAYOU FEDERAL FLOOD CONTROL PROJECT
GENERAL REEVALUATION REPORT

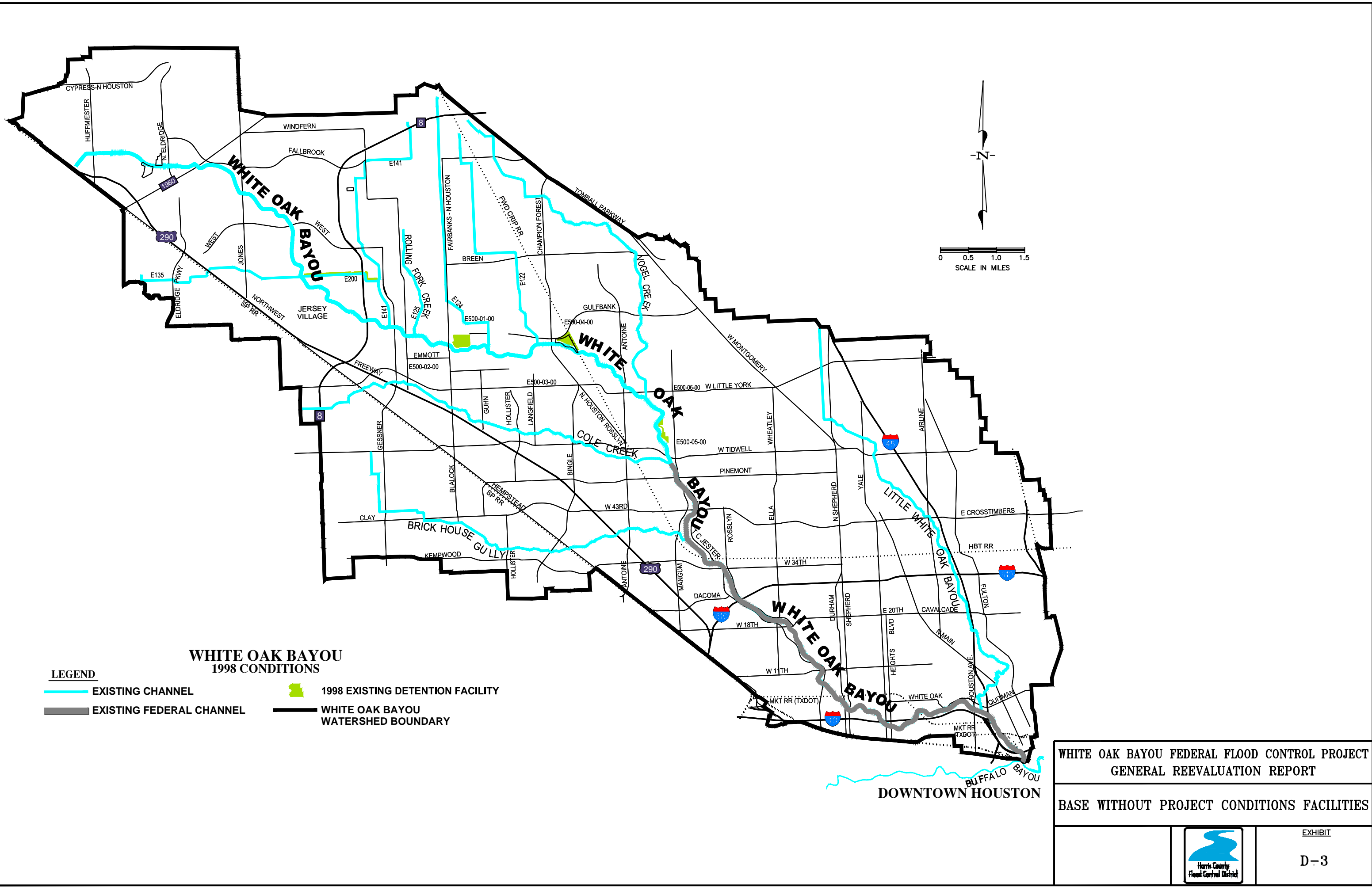
WATERSHED MAP



EXHIBIT

D-2

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**WHITE OAK BAYOU
1998 CONDITIONS**

- LEGEND**
- EXISTING CHANNEL
 - EXISTING FEDERAL CHANNEL
 - 1998 EXISTING DETENTION FACILITY
 - WHITE OAK BAYOU WATERSHED BOUNDARY

**WHITE OAK BAYOU FEDERAL FLOOD CONTROL PROJECT
GENERAL REEVALUATION REPORT**

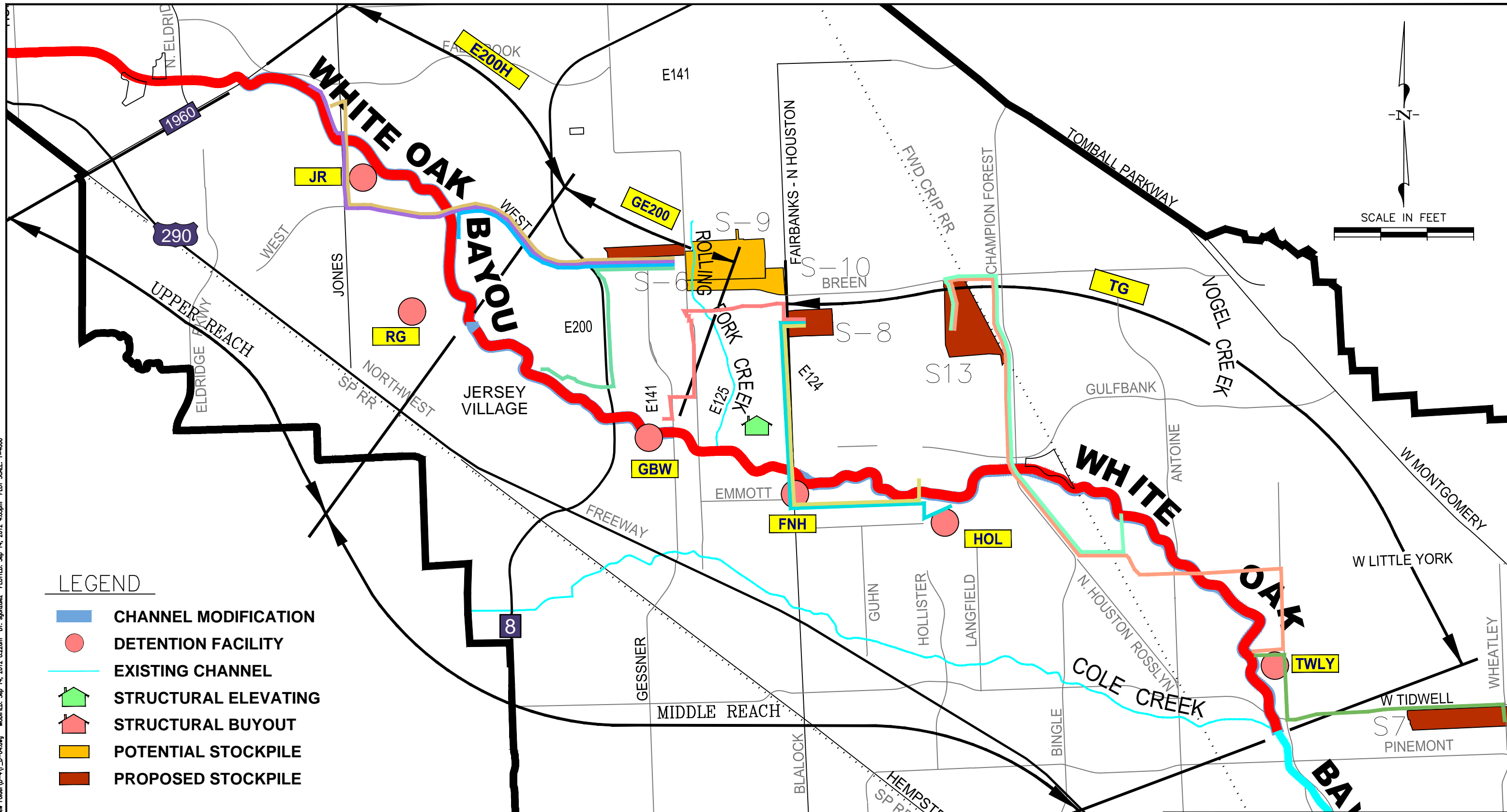
BASE WITHOUT PROJECT CONDITIONS FACILITIES



EXHIBIT

D-3

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LEGEND

- █ CHANNEL MODIFICATION
- DETENTION FACILITY
- █ EXISTING CHANNEL
- █ STRUCTURAL ELEVATING
- █ STRUCTURAL BUYOUT
- █ POTENTIAL STOCKPILE
- █ PROPOSED STOCKPILE

LEGEND - SOIL STOCKPILE ROUTING

- █ TG to S7
- █ TG to S8
- █ TG to S13
- █ GE200 to S6
- █ E200H to S6
- █ E200H to S6
- █ HOL to S8
- █ GBW to S8
- █ JR to S6
- █ TWLY to S7
- █ TWLY to S13

From	To	Total_Exc. (CY)	Acres	Dist. Min (Mile)	Dist. Max (Mile)	Haul_Cap (CY)	Stor Cap (CY)	% Cap	Disposal (\$/CY)	Haul Cost (\$)	Total_plac (\$)	Unit_Cost (\$)	S9/S10_dis Cost	S9/S10 Unit Cost
TG	S7	350000	42	4.14	7.73	350000	1234430	0.28	2.09	2173500	2905000	8.30	5411000	15.46
TG	S8	630000	76	3.13	3.73	630000	1559206	0.40	1.97	2957850	4198950	6.67	4699800	7.46
TG	S13	670000	225	4.09	5.80	670000	4628250	0.14	1.58	4110450	5169050	7.72	7772000	11.60
GE200	S6	720000	37	2.50	3.00	720000	1002473	0.72	1.82	2700000	4010400	5.57	4320000	6.00
E200H	S6	500000	37	1.99	4.65	500000	1002473	0.50	1.82	1492500	2402500	4.81	4650000	9.30
E200H	S6	500000	37	4.11	6.44	500000	1002473	0.50	1.82	3082500	3992500	7.99	6440000	12.88
HOL	S8	660000	76	3.52	4.64	660000	1559206	0.42	1.97	3484800	4785000	7.25	6124800	9.28
GBW	S8	500000	76	2.38	2.76	500000	1559206	0.32	1.97	1785000	2770000	5.54	2760000	5.52
JR	S6	450000	37	3.84	4.50	450000	1002473	0.45	1.82	2592000	3411000	7.58	4050000	9.00
TWLY	S7	1322933	42	2.78	4.98	1322933	1234430	1.07	2.09	5516631	8281561	6.26	13176413	9.96
TWLY	S13	532400	225	2.90	4.33	532400	4628250	0.12	1.58	2315940	3157132	5.93	4610584	8.66

**WHITE OAK BAYOU FEDERAL FLOOD CONTROL PROJECT
GENERAL REEVALUATION REPORT**

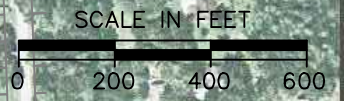
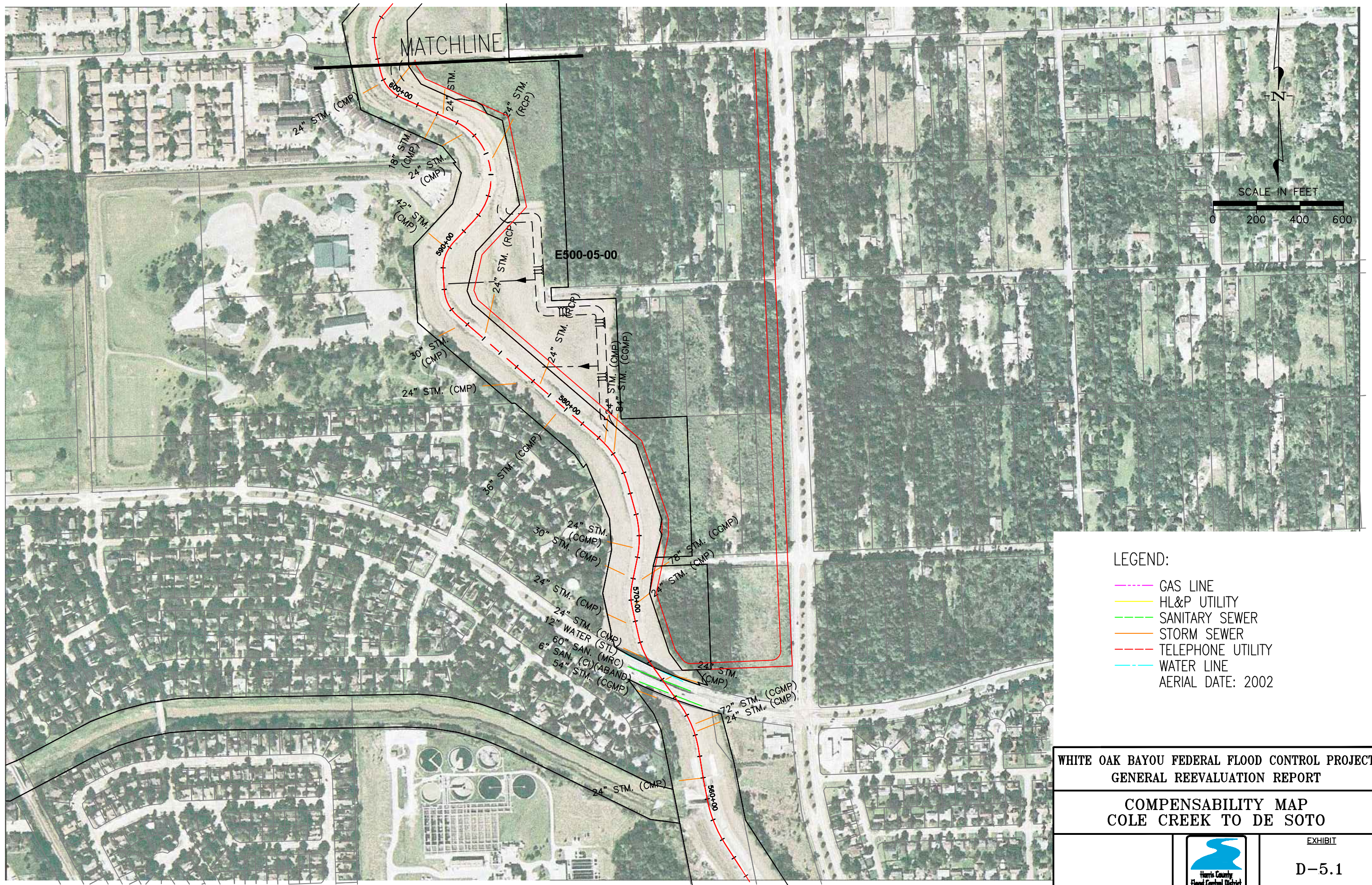
SOIL DISPOSAL SITES - ROUTING



EXHIBIT

D-4

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- LEGEND:
- GAS LINE
 - HL&P UTILITY
 - SANITARY SEWER
 - STORM SEWER
 - TELEPHONE UTILITY
 - WATER LINE
 - AERIAL DATE: 2002

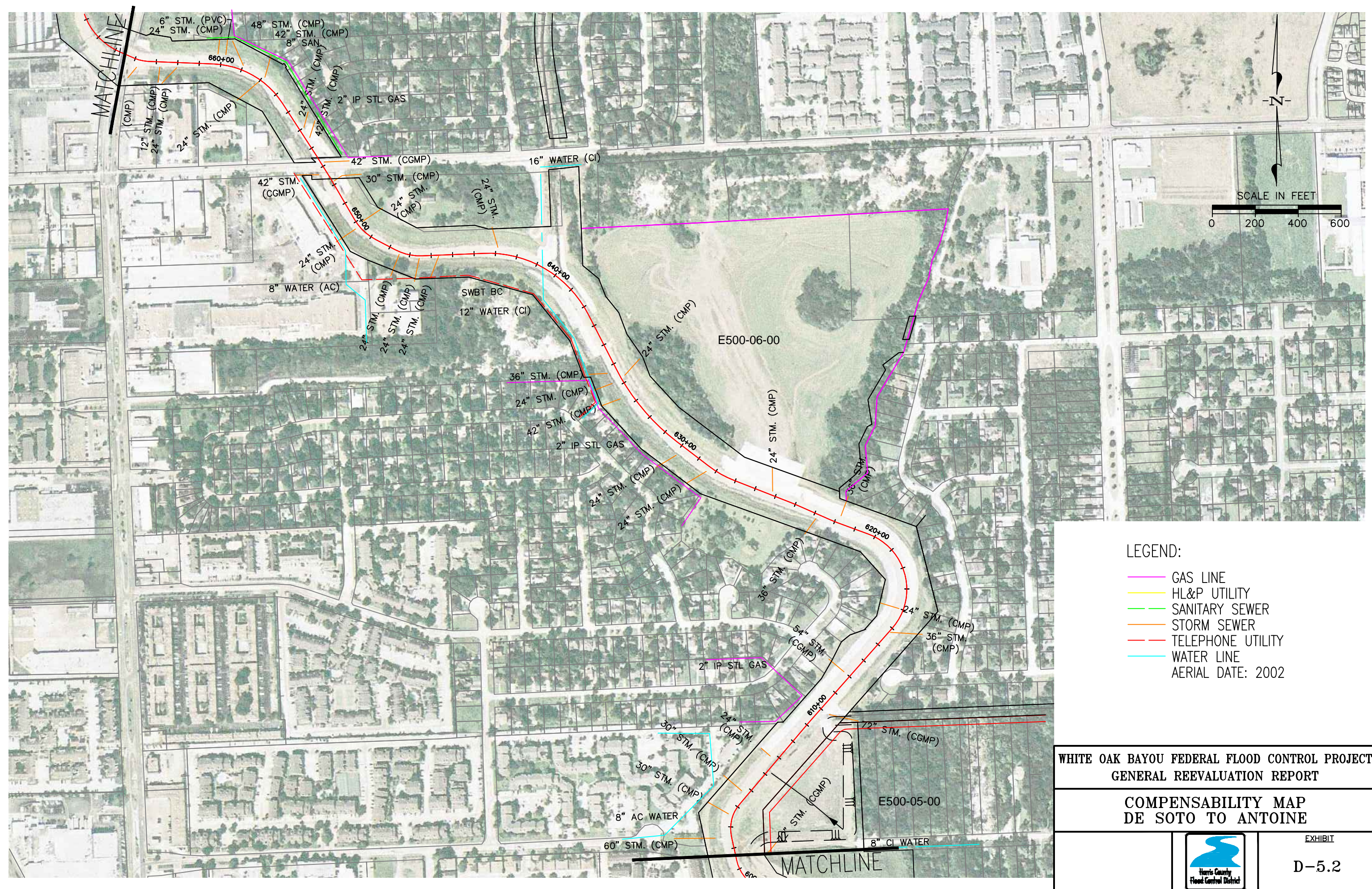
WHITE OAK BAYOU FEDERAL FLOOD CONTROL PROJECT
GENERAL REEVALUATION REPORT

COMPENSABILITY MAP
COLE CREEK TO DE SOTO



EXHIBIT
D-5.1

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- LEGEND:
- GAS LINE
 - HL&P UTILITY
 - SANITARY SEWER
 - STORM SEWER
 - TELEPHONE UTILITY
 - WATER LINE
- AERIAL DATE: 2002

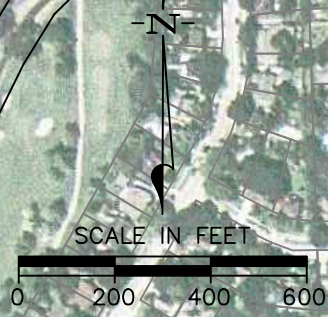
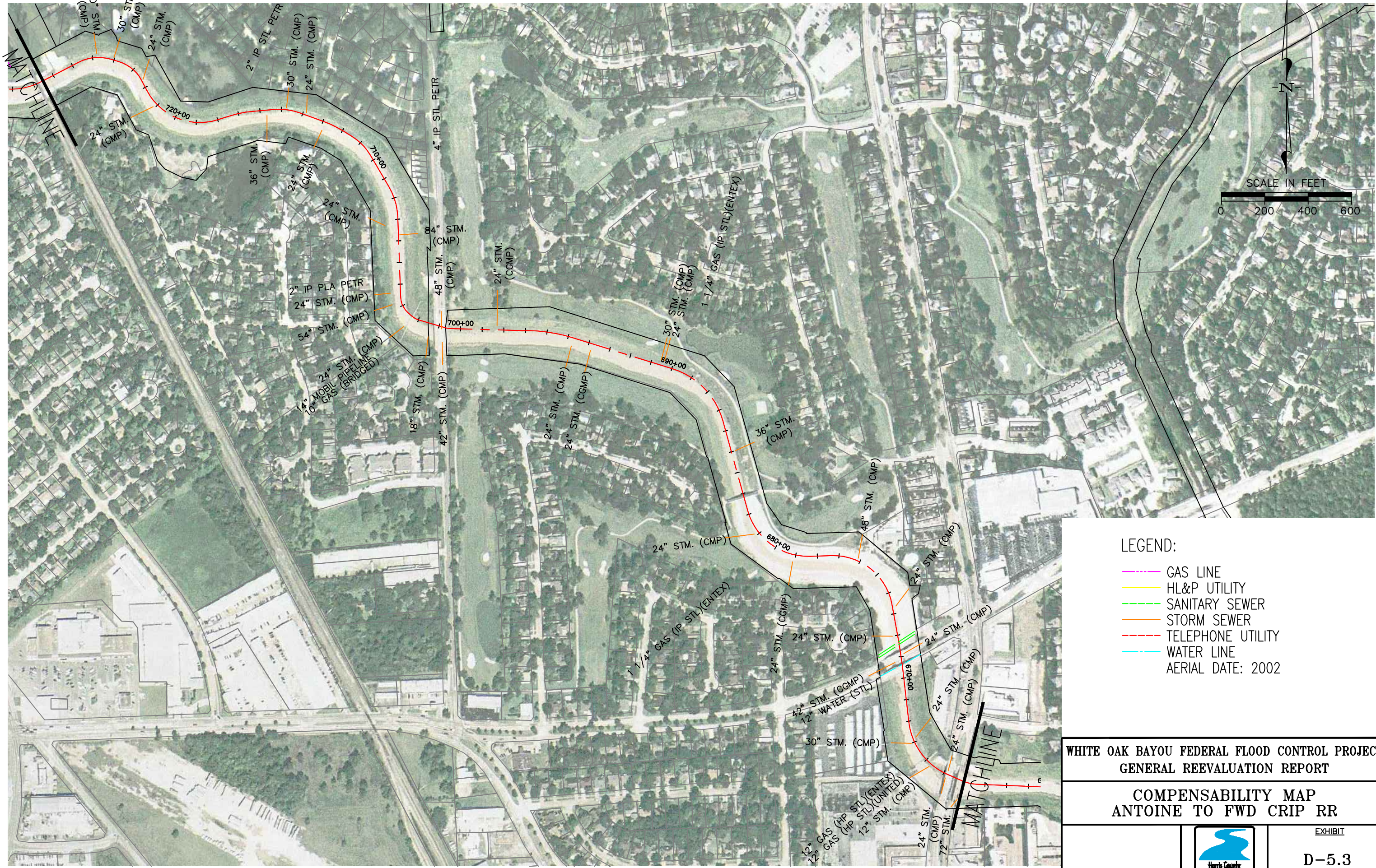
**WHITE OAK BAYOU FEDERAL FLOOD CONTROL PROJECT
GENERAL REEVALUATION REPORT**

**COMPENSABILITY MAP
DE SOTO TO ANTOINE**



EXHIBIT
D-5.2

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- LEGEND:
- GAS LINE
 - HL&P UTILITY
 - SANITARY SEWER
 - STORM SEWER
 - TELEPHONE UTILITY
 - WATER LINE
- AERIAL DATE: 2002

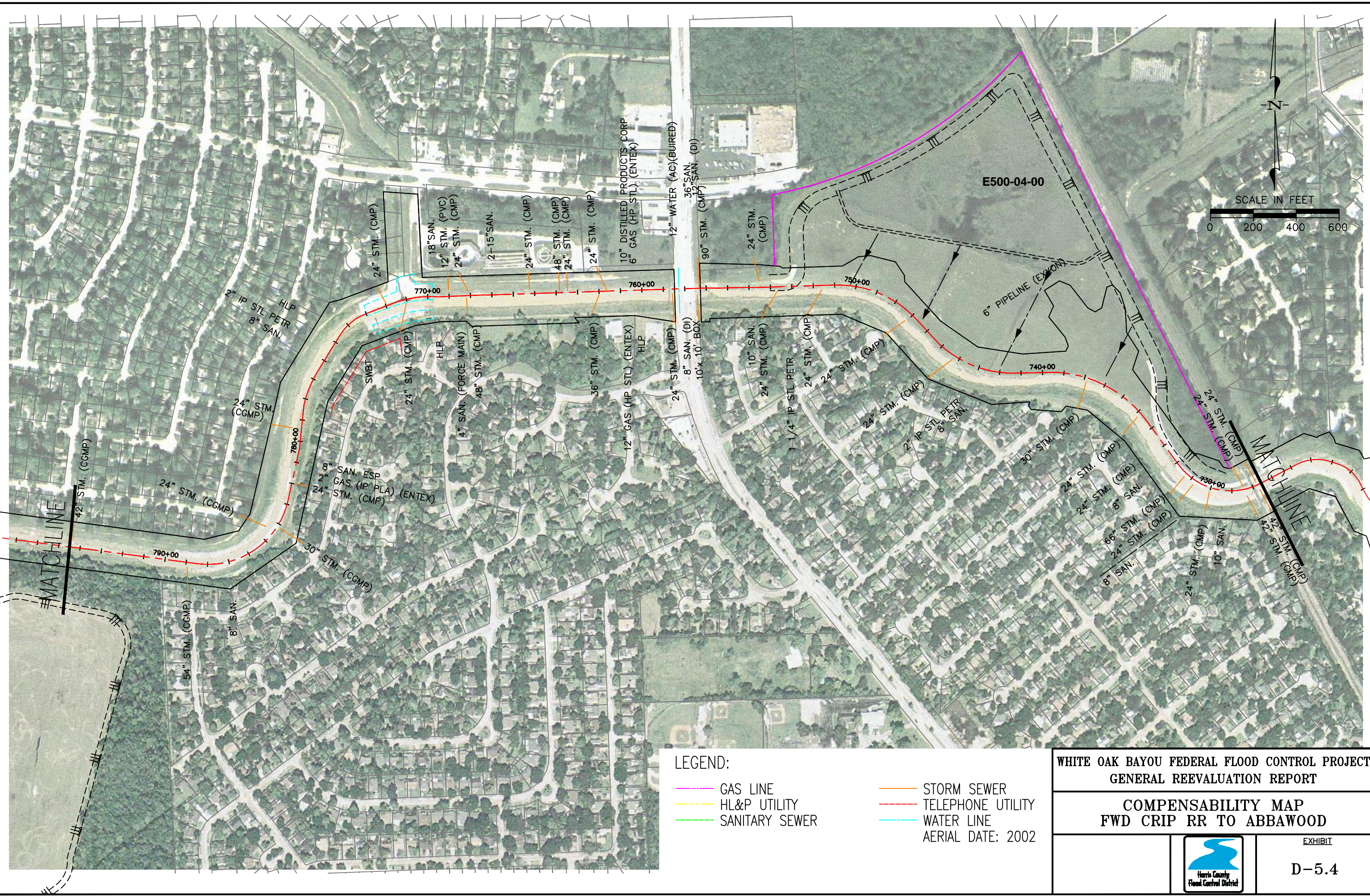
WHITE OAK BAYOU FEDERAL FLOOD CONTROL PROJECT
GENERAL REEVALUATION REPORT

COMPENSABILITY MAP
ANTOINE TO FWD CRIP RR



EXHIBIT
D-5.3

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LEGEND:

- GAS LINE
 - HL&P UTILITY
 - SANITARY SEWER
 - STORM SEWER
 - - - TELEPHONE UTILITY
 - WATER LINE
- AERIAL DATE: 2002

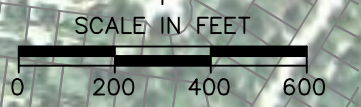
**WHITE OAK BAYOU FEDERAL FLOOD CONTROL PROJECT
GENERAL REEVALUATION REPORT**

**COMPENSABILITY MAP
FWD CRIP RR TO ABBAWOOD**



EXHIBIT
D-5.4

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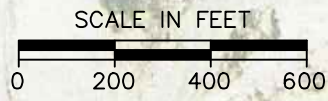
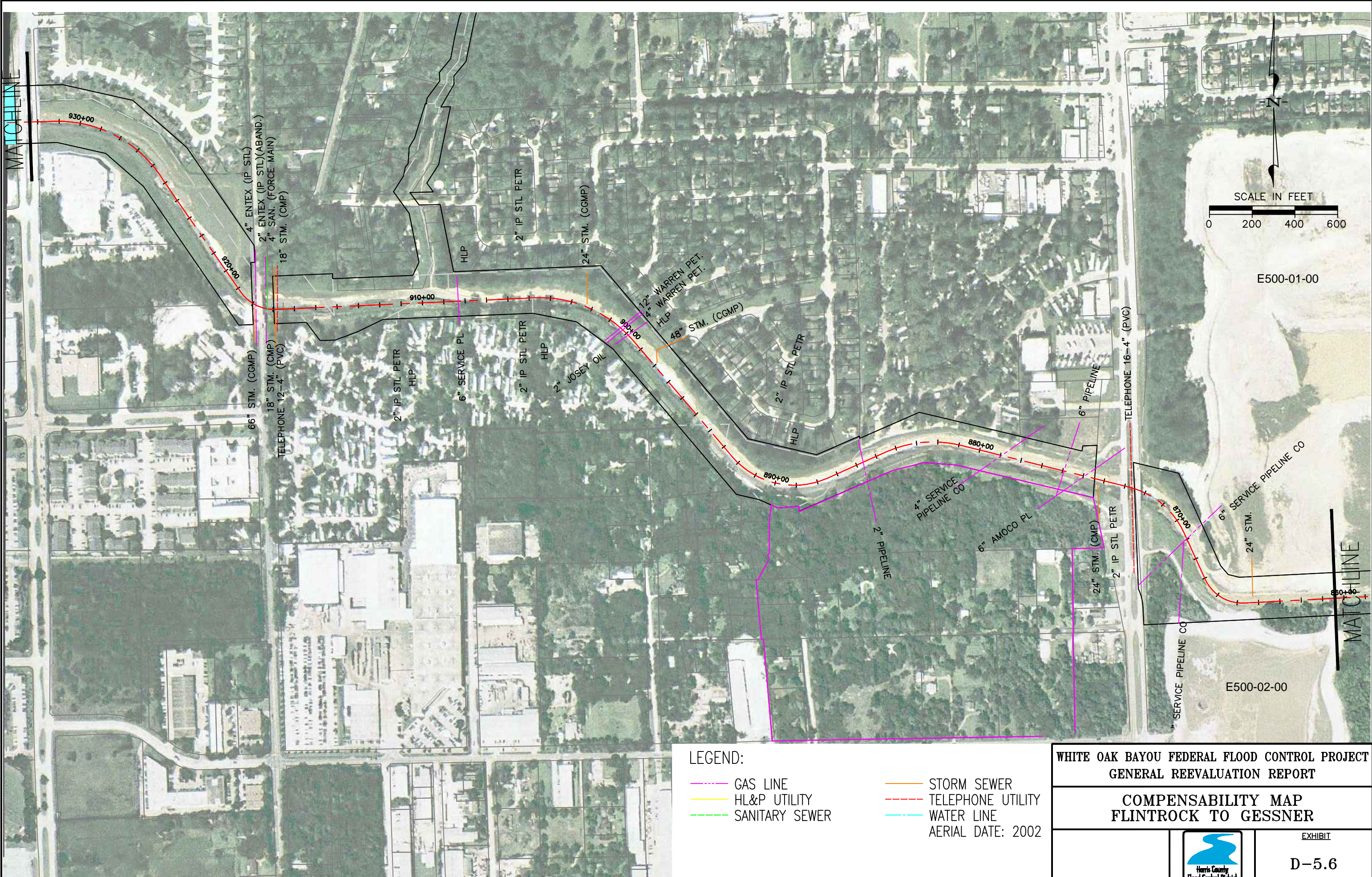
- GAS LINE
 - HL&P UTILITY
 - SANITARY SEWER
 - STORM SEWER
 - TELEPHONE UTILITY
 - WATER LINE
- AERIAL DATE: 2002

**WHITE OAK BAYOU FEDERAL FLOOD CONTROL PROJECT
GENERAL REEVALUATION REPORT**

**COMPENSABILITY MAP
ABBAWOOD TO FLINTROCK**

	EXHIBIT D-5.5
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E500-01-00

E500-02-00

LEGEND:

- GAS LINE
- HL&P UTILITY
- SANITARY SEWER
- STORM SEWER
- - - TELEPHONE UTILITY
- WATER LINE
- AERIAL DATE: 2002

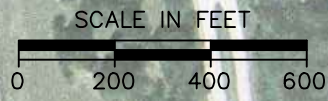
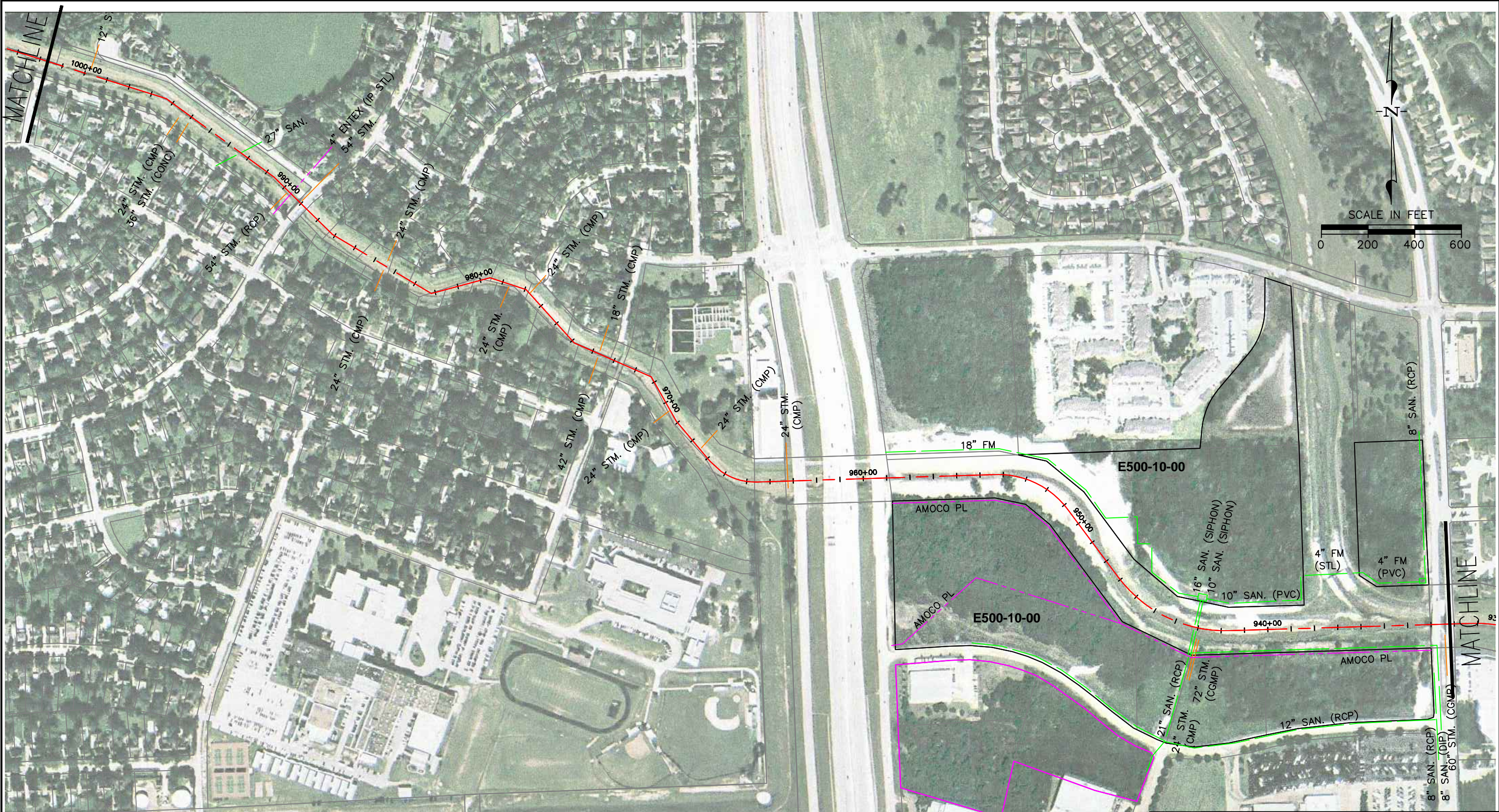
WHITE OAK BAYOU FEDERAL FLOOD CONTROL PROJECT
GENERAL REEVALUATION REPORT

COMPENSABILITY MAP
FLINTROCK TO GESSNER



EXHIBIT
D-5.6

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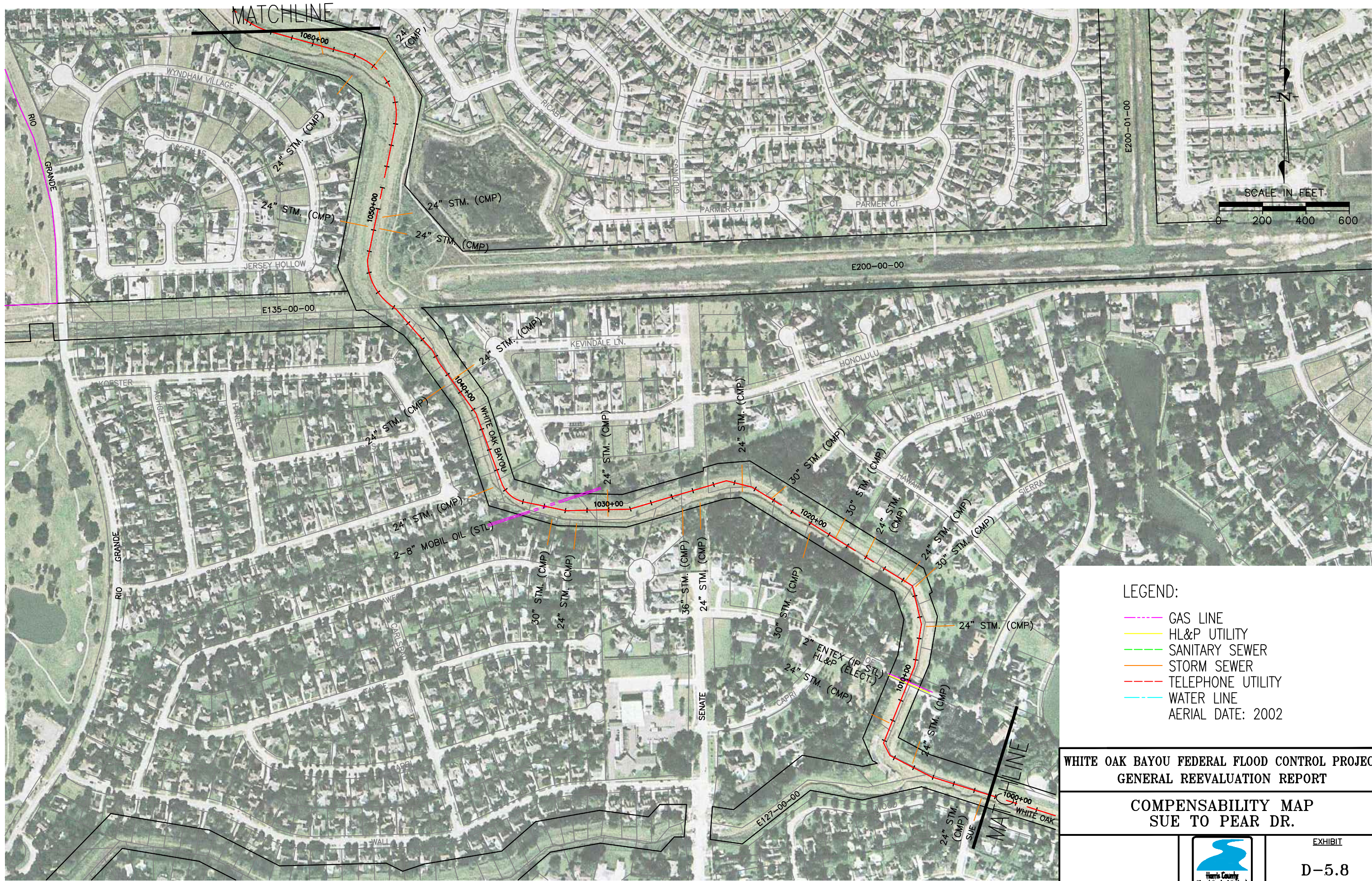
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- HL&P UTILITY
- SANITARY SEWER
- STORM SEWER
- TELEPHONE UTILITY
- WATER LINE
- AERIAL DATE: 2002

WHITE OAK BAYOU FEDERAL FLOOD CONTROL PROJECT
GENERAL REEVALUATION REPORT

COMPENSABILITY MAP
GESSNER TO SUE

	EXHIBIT
	D-5.7

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LEGEND:

- GAS LINE
- HL&P UTILITY
- SANITARY SEWER
- STORM SEWER
- TELEPHONE UTILITY
- WATER LINE
- AERIAL DATE: 2002

**WHITE OAK BAYOU FEDERAL FLOOD CONTROL PROJECT
GENERAL REEVALUATION REPORT**

**COMPENSABILITY MAP
SUE TO PEAR DR.**

**EXHIBIT
D-5.8**



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- LEGEND:
- GAS LINE
 - HL&P UTILITY
 - SANITARY SEWER
 - STORM SEWER
 - TELEPHONE UTILITY
 - WATER LINE
- AERIAL DATE: 2002

**WHITE OAK BAYOU FEDERAL FLOOD CONTROL PROJECT
GENERAL REEVALUATION REPORT**

**COMPENSABILITY MAP
PEAR DR. TO WEST RD.**



EXHIBIT
D-5.9

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- LEGEND:
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 - HL&P UTILITY
 - SANITARY SEWER
 - STORM SEWER
 - TELEPHONE UTILITY
 - WATER LINE
- AERIAL DATE: 2002

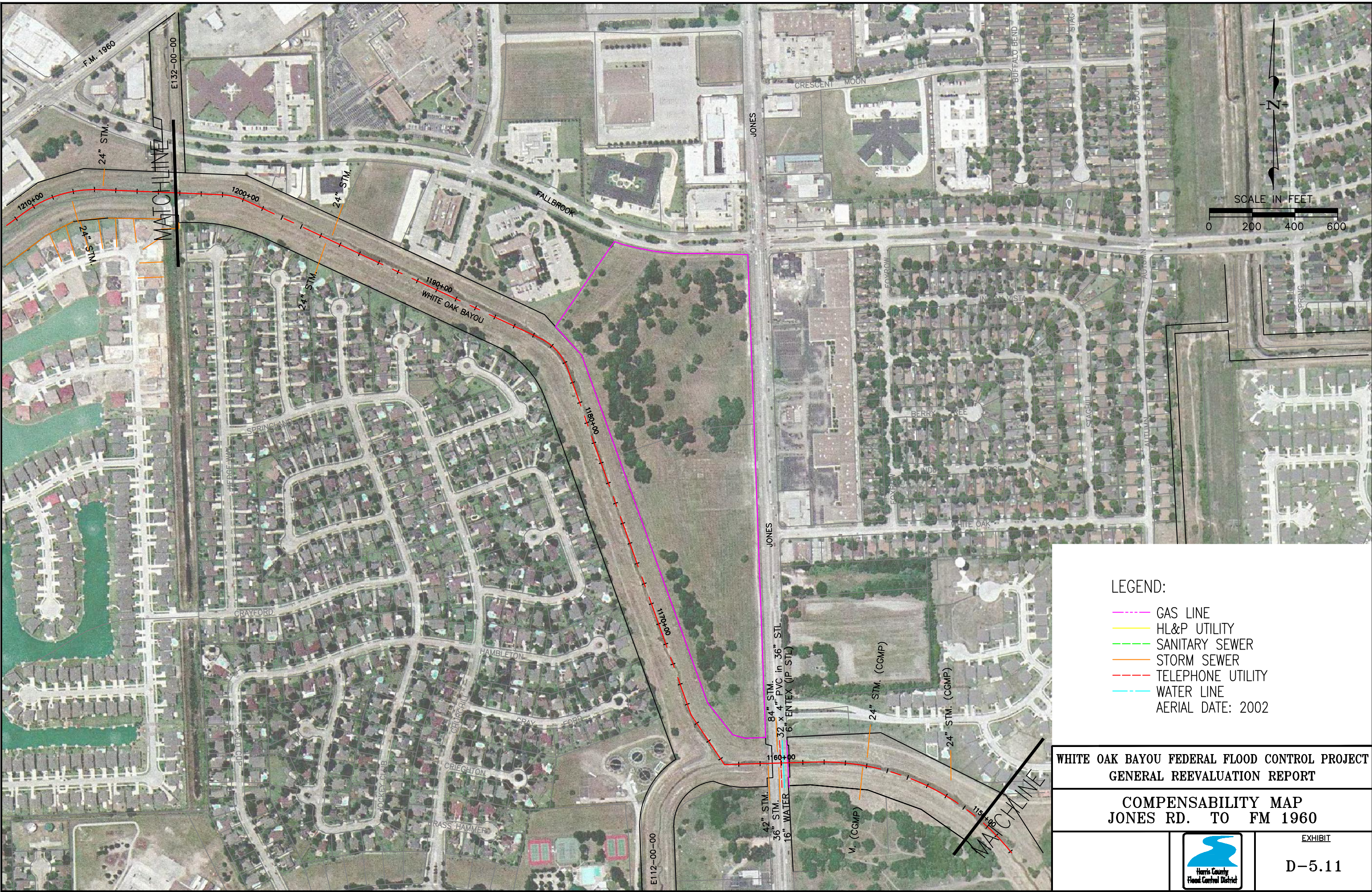
**WHITE OAK BAYOU FEDERAL FLOOD CONTROL PROJECT
GENERAL REEVALUATION REPORT**

**COMPENSABILITY MAP
WEST RD. TO JONES RD.**



EXHIBIT
D-5.10

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LEGEND:

- GAS LINE
- HL&P UTILITY
- SANITARY SEWER
- STORM SEWER
- TELEPHONE UTILITY
- WATER LINE
- AERIAL DATE: 2002

**WHITE OAK BAYOU FEDERAL FLOOD CONTROL PROJECT
GENERAL REEVALUATION REPORT**

**COMPENSABILITY MAP
JONES RD. TO FM 1960**



EXHIBIT
D-5.11

FILE INFO: I:\Projects\10344\1607\APPENDIX D\EXHIBITS\New Folder\D-5.12\F_D-05.12.dwg XREFS: WOB-row, Bp04; Sra00; ALI-COMP; WOB-UTL-S01; WOB-CLB1 MODIFIED: Sep 14, 2012 9:38am BR: sponzarez PLOTTED: Sep 14, 2012 4:10pm PLOT SCALE: 1=1



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- HL&P UTILITY
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- WATER LINE

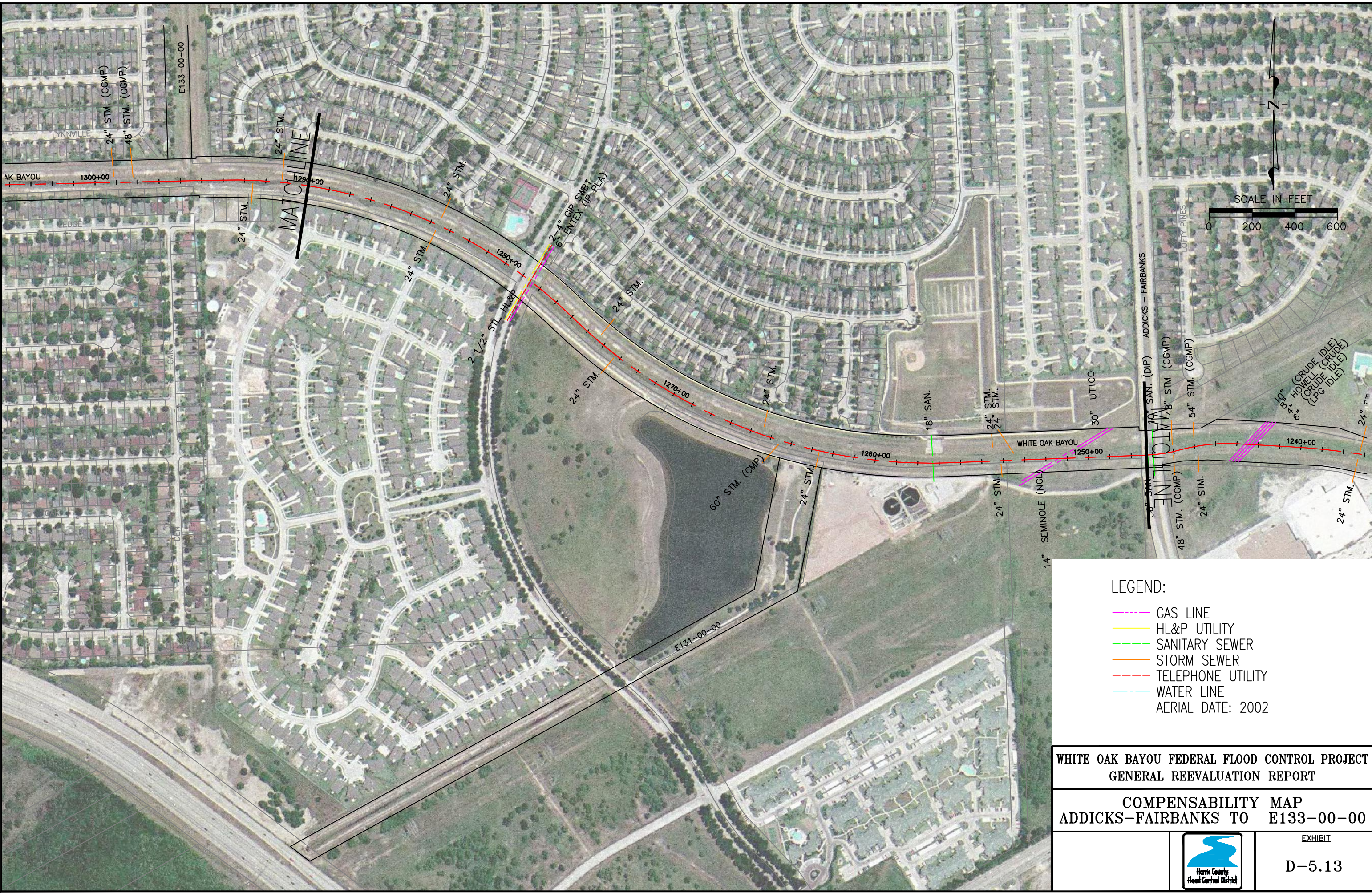
AERIAL DATE: 2002

**WHITE OAK BAYOU FEDERAL FLOOD CONTROL PROJECT
GENERAL REEVALUATION REPORT**

**COMPENSABILITY MAP
FM 1960 TO ADDICKS-FAIRBANKS**

EXHIBIT
D-5.12


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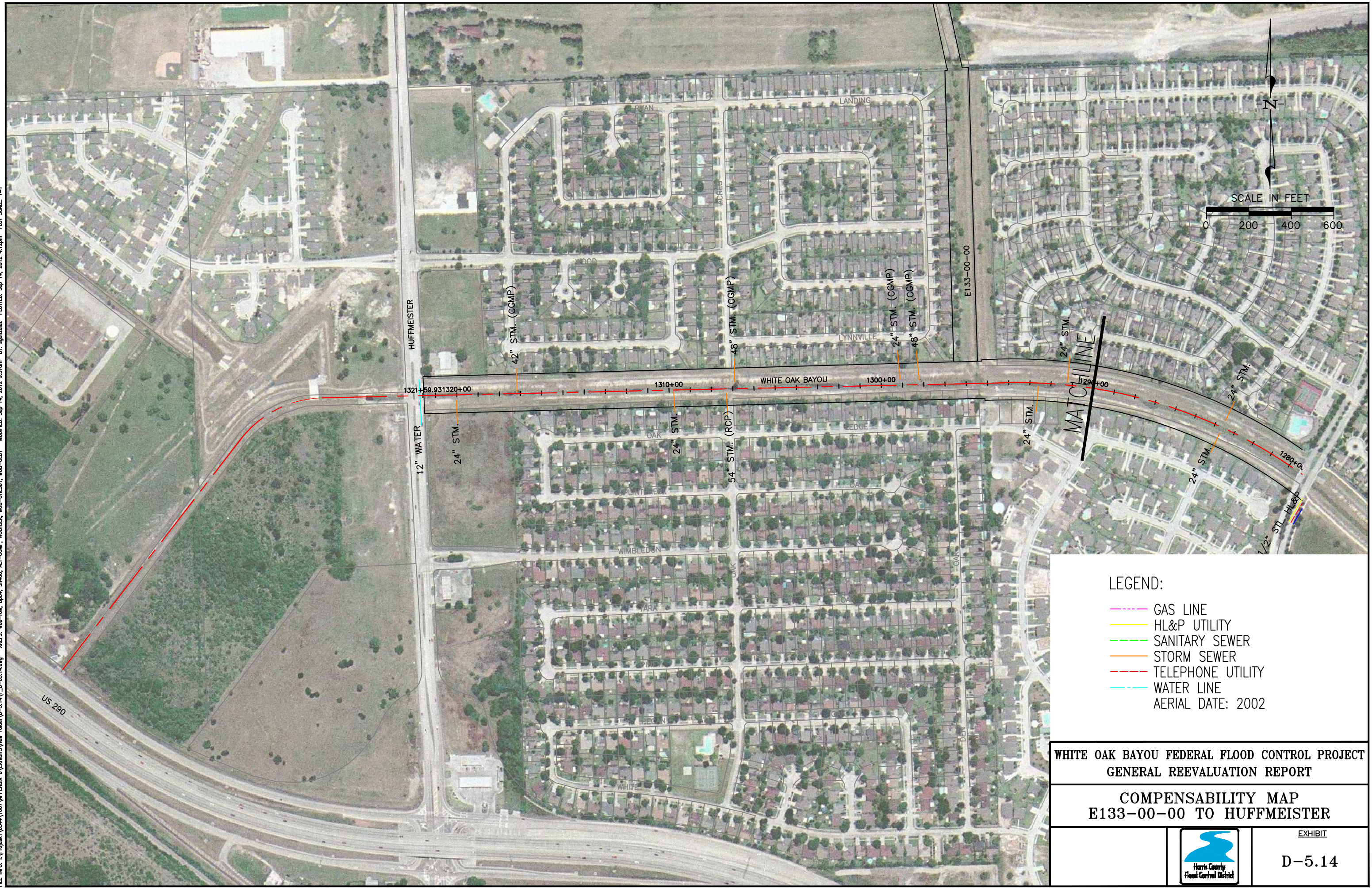
- LEGEND:
- GAS LINE
 - HL&P UTILITY
 - SANITARY SEWER
 - STORM SEWER
 - TELEPHONE UTILITY
 - WATER LINE
- AERIAL DATE: 2002

**WHITE OAK BAYOU FEDERAL FLOOD CONTROL PROJECT
GENERAL REEVALUATION REPORT**

**COMPENSABILITY MAP
ADDICKS-FAIRBANKS TO E133-00-00**

	EXHIBIT D-5.13
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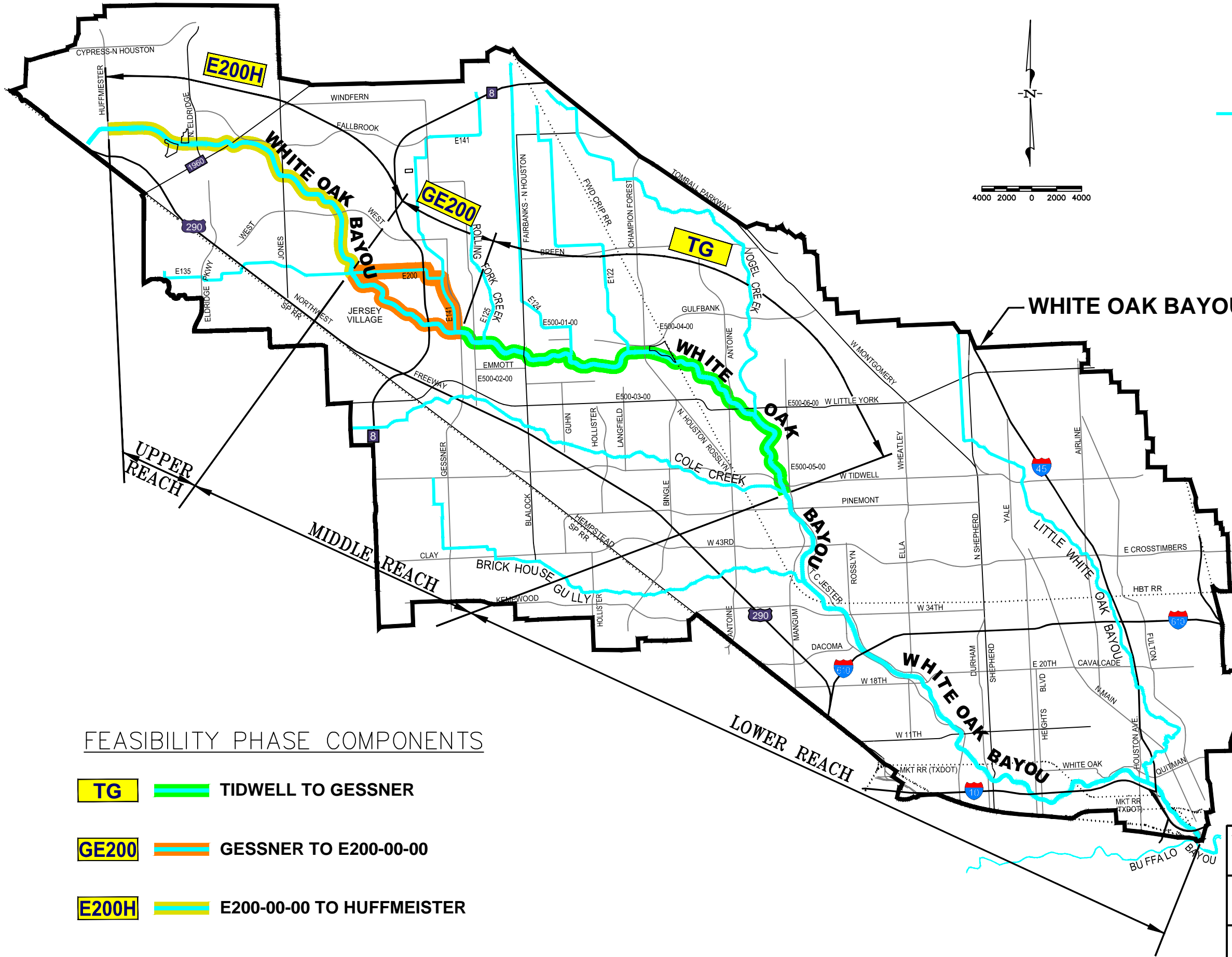
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 - HL&P UTILITY
 - SANITARY SEWER
 - STORM SEWER
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 - WATER LINE
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**WHITE OAK BAYOU FEDERAL FLOOD CONTROL PROJECT
GENERAL REEVALUATION REPORT**

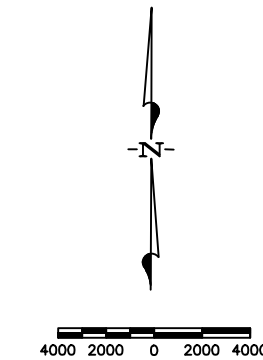
**COMPENSABILITY MAP
E133-00-00 TO HUFFMEISTER**

	<p>EXHIBIT</p> <p style="font-size: 1.2em;">D-5.14</p>
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LEGEND
EXISTING CHANNEL



WHITE OAK BAYOU WATERSHED

FEASIBILITY PHASE COMPONENTS

- TG** TIDWELL TO GESSNER
- GE200** GESSNER TO E200-00-00
- E200H** E200-00-00 TO HUFFMEISTER

WHITE OAK BAYOU FEDERAL FLOOD CONTROL PROJECT
GENERAL REEVALUATION REPORT

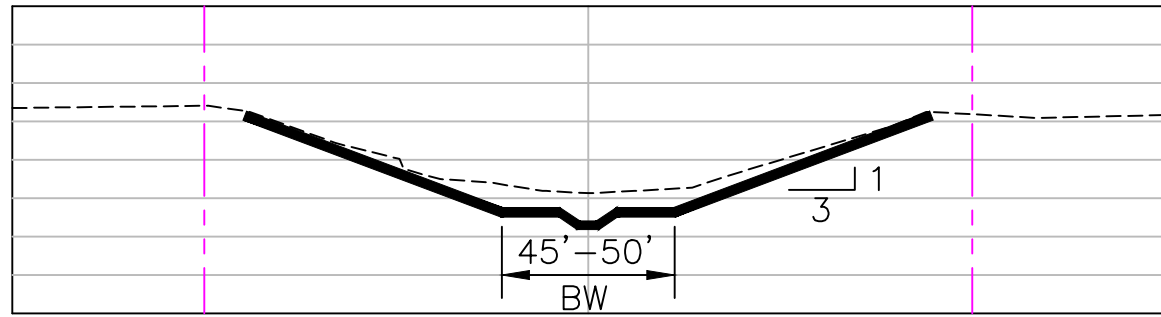
CHANNELIZATION COMPONENTS



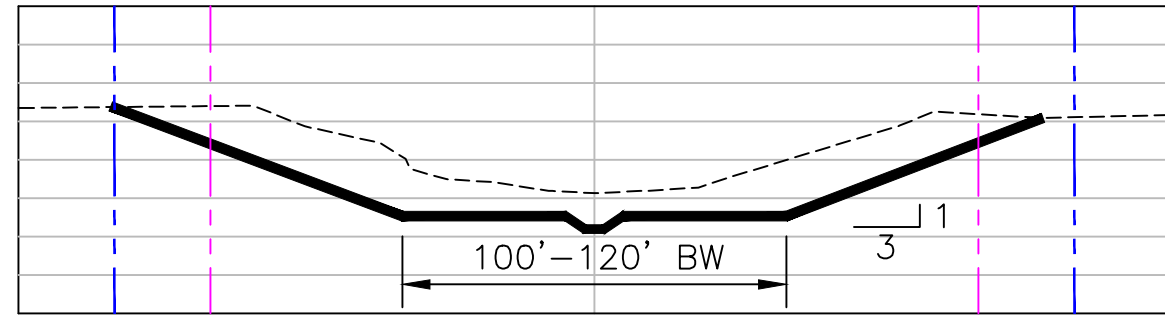
EXHIBIT

D-6

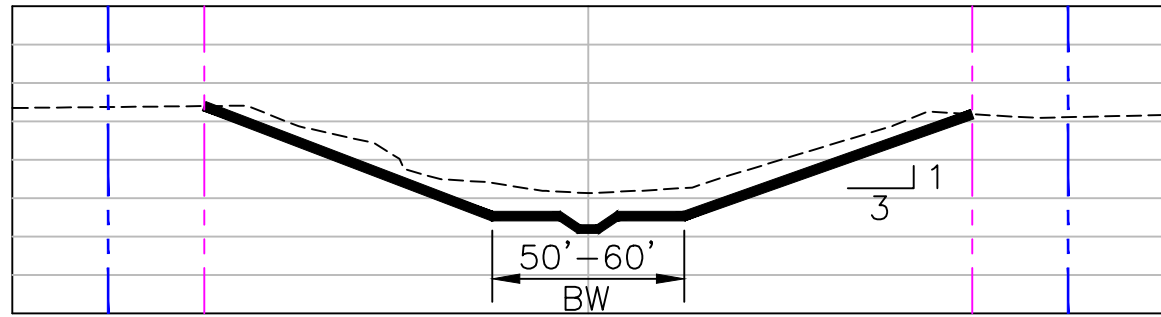
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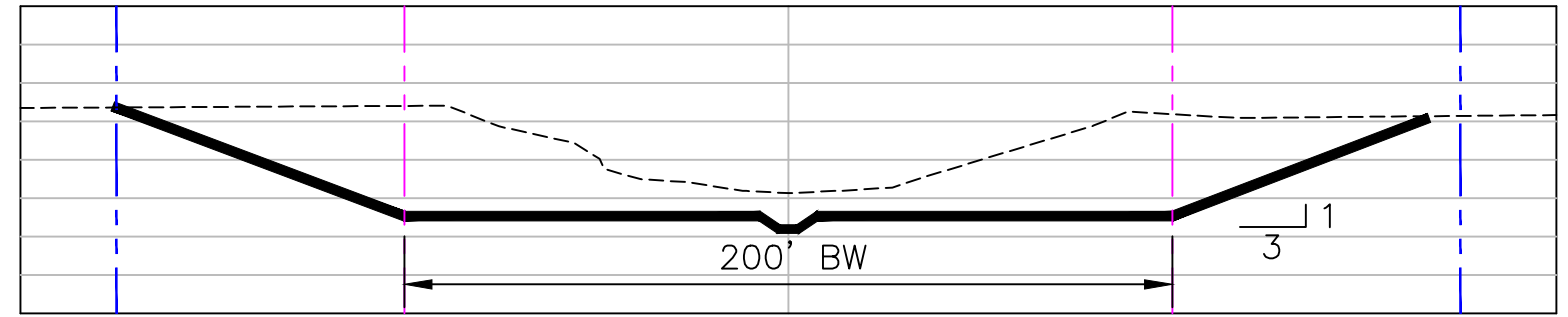
TG.1 DETAIL (NTS)



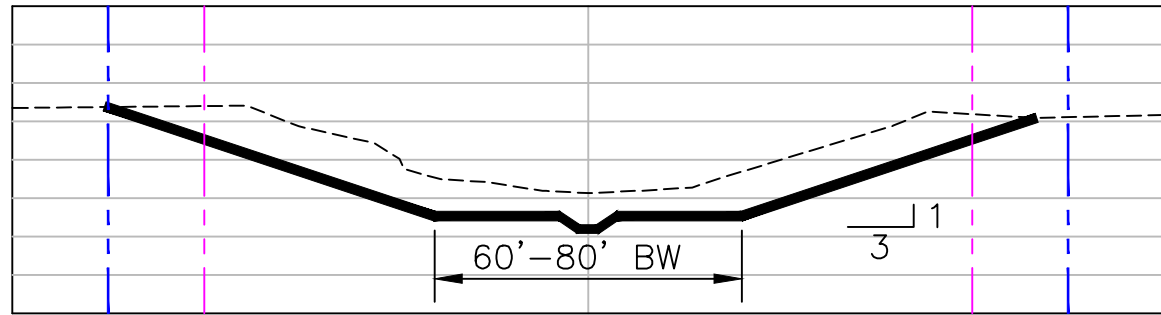
TG.5 DETAIL (NTS)



TG.2 DETAIL (NTS)

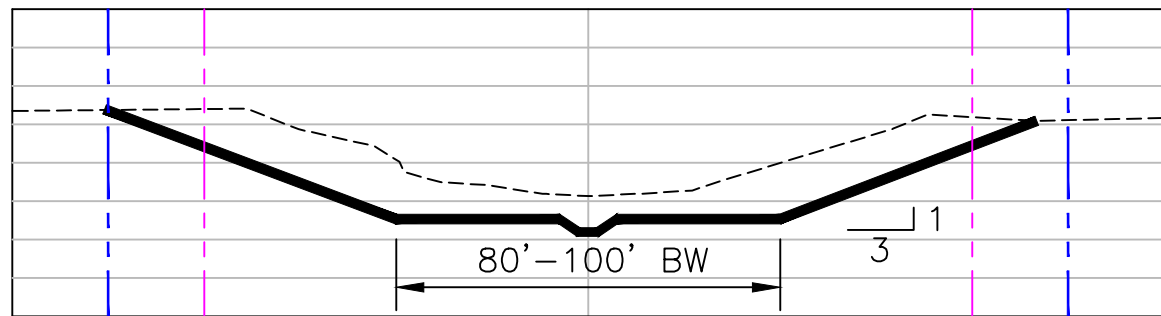


TG.6 DETAIL (NTS)



TG.3 DETAIL (NTS)

- LEGEND
- - - - - EXISTING CHANNEL
 - - - - - EXISTING R.O.W.
 - - - - - R.O.W. REQUIRED
 - EARTHEN GRASS LINED
 - ▒▒▒▒▒▒ CONCRETE LINED



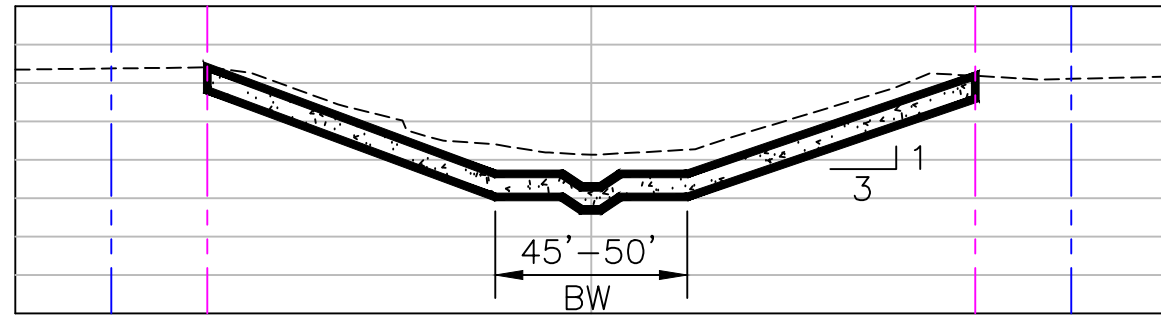
TG.4 DETAIL (NTS)

WHITE OAK BAYOU FEDERAL FLOOD CONTROL PROJECT
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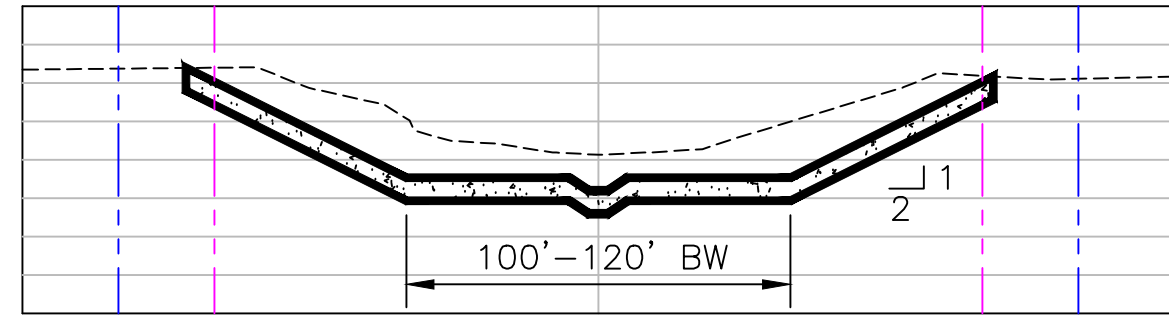


EXHIBIT

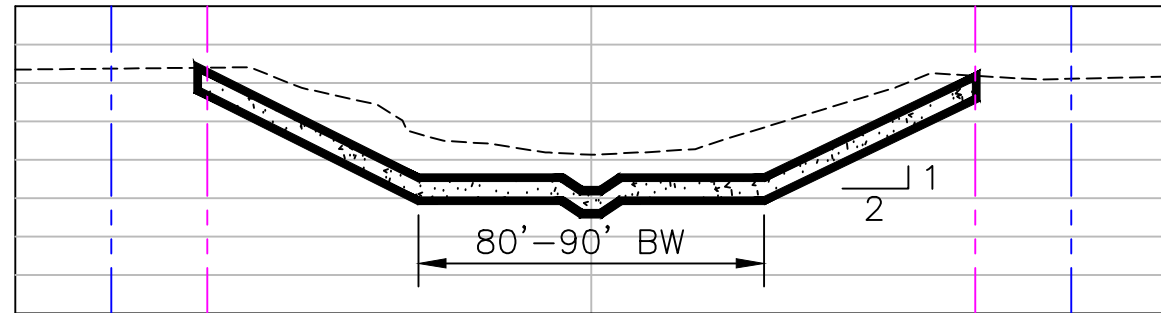
D-7.1



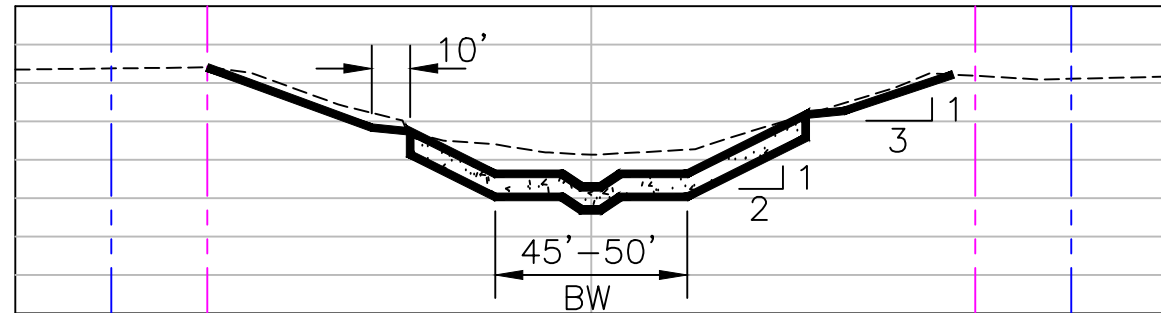
TG.7 DETAIL (NTS)



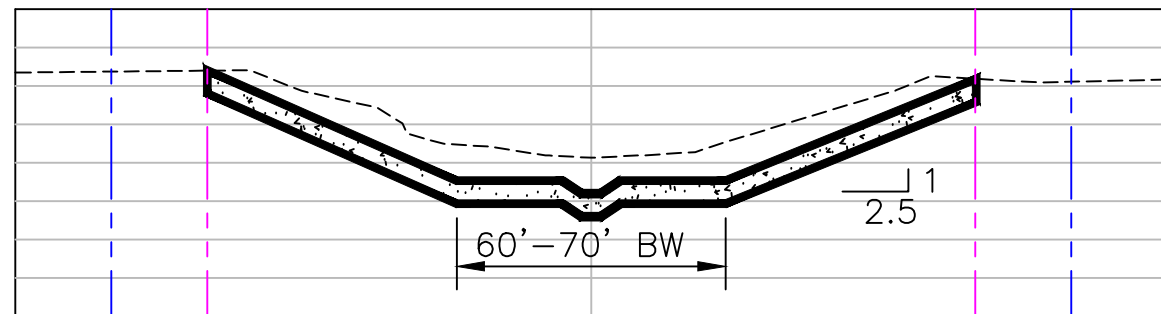
TG.11 DETAIL (NTS)



TG.8 DETAIL (NTS)



TG.9 DETAIL (NTS)



TG.10 DETAIL (NTS)

LEGEND

- - - - - EXISTING CHANNEL
- - - - - EXISTING R.O.W.
- - - - - R.O.W. REQUIRED
- EARTHEN GRASS LINED
- ▒▒▒▒▒ CONCRETE LINED

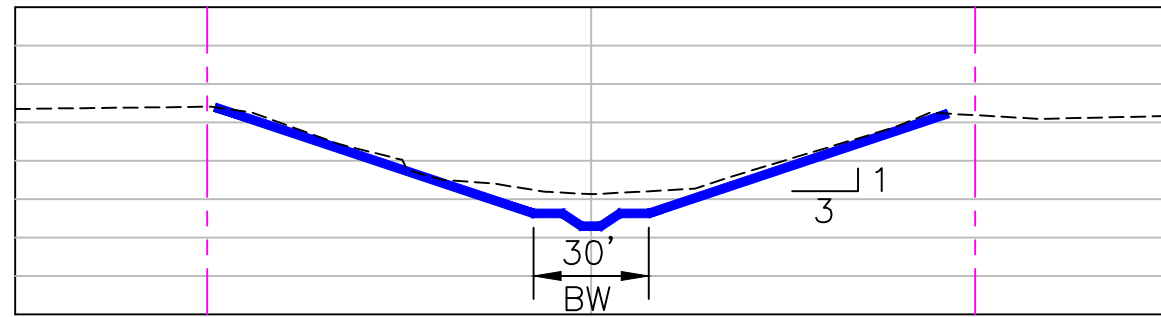


WHITE OAK BAYOU FEDERAL FLOOD CONTROL PROJECT
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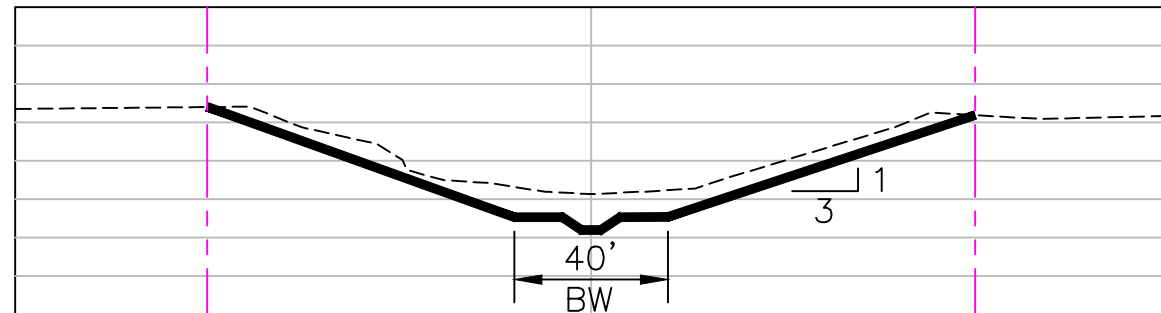


EXHIBIT

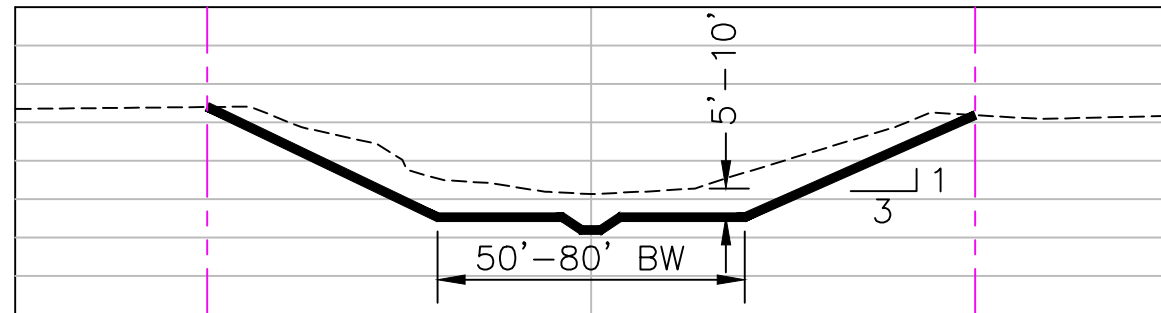
D-7.2



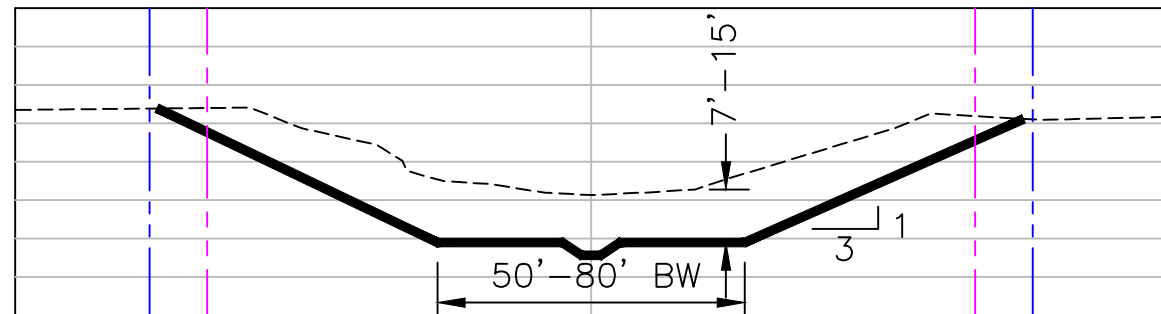
GE200.0 DETAIL (WHITE OAK BAYOU CHANNEL MODIFICATIONS)
(NTS)



GE200.1 DETAIL (BY-PASS CHANNEL MODIFICATIONS)
(NTS)



GE200.2 DETAIL (BY-PASS CHANNEL MODIFICATIONS)
(NTS)



GE200.3 DETAIL (BY-PASS CHANNEL MODIFICATIONS)
(NTS)

GE200.4 = **GE200.0** + **GE200.1**
GE200.5 = **GE200.0** + **GE200.2**
GE200.6 = **GE200.0** + **GE200.3**

LEGEND

- GE200.0** - MAIN STEM CHANNEL
- EXISTING CHANNEL
- EXISTING R.O.W.
- PROPOSED R.O.W.
- GE200.1** - BYPASS EARTHEN-GRASS CHANNEL



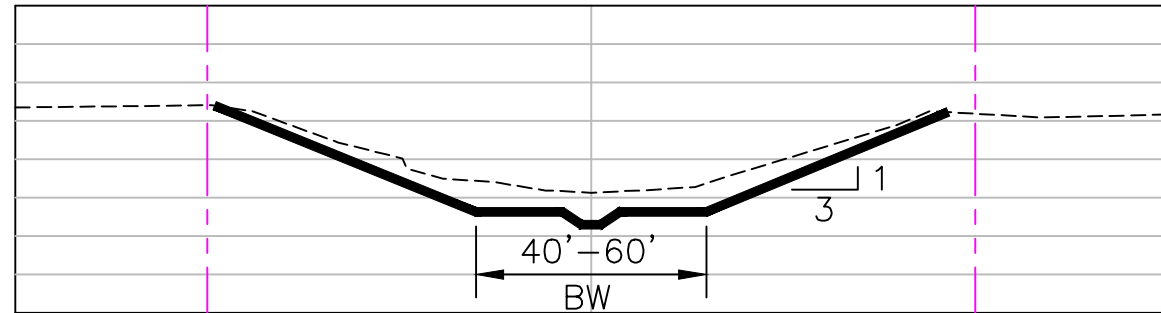
WHITE OAK BAYOU FEDERAL FLOOD CONTROL PROJECT
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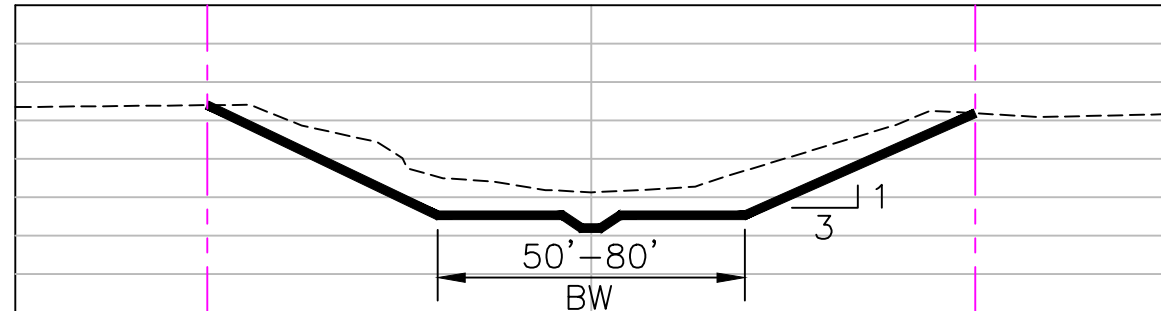
EXHIBIT

D-8

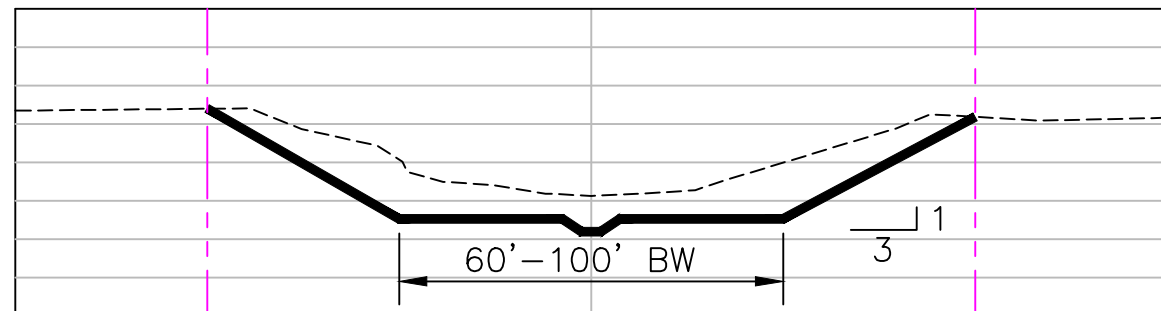
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E200H.1 DETAIL (NTS)



E200H.2 DETAIL (NTS)



E200H.3 DETAIL (NTS)

LEGEND

- - - - - EXISTING CHANNEL
- - - - - EXISTING R.O.W.
- EARTHEN - GRASS LINED



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 E200H - CROSS SECTIONS



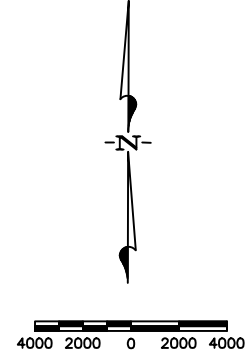
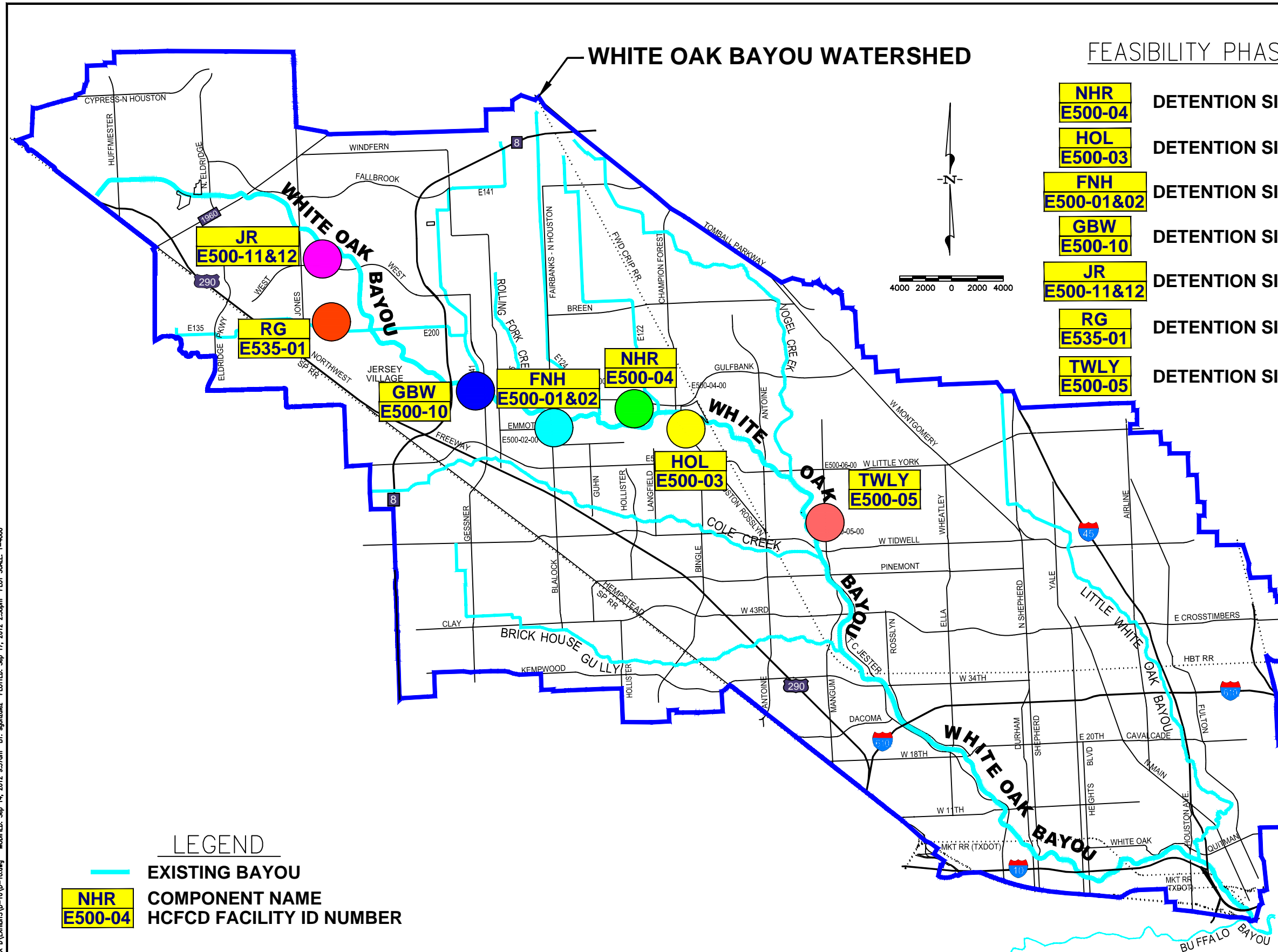
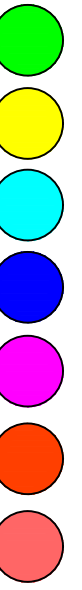
EXHIBIT

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WHITE OAK BAYOU WATERSHED

FEASIBILITY PHASE COMPONENTS

- NHR E500-04** DETENTION SITE @ N. HOUSTON ROSSLYN
- HOL E500-03** DETENTION SITE @ HOLLISTER ROAD
- FNH E500-01&02** DETENTION SITE @ FAIRBANKS-N. HOUSTON
- GBW E500-10** DETENTION SITE @ GESSNER ROAD
- JR E500-11&12** DETENTION SITE @ JONES ROAD
- RG E535-01** DETENTION SITE @ RIO GRANDE
- TWLY E500-05** DETENTION SITE @ TIDWELL & W. LITTLE YORK



LEGEND

- EXISTING BAYOU
- NHR E500-04** COMPONENT NAME
HCFCF FACILITY ID NUMBER

WHITE OAK BAYOU FEDERAL FLOOD CONTROL PROJECT
GENERAL REEVALUATION REPORT

DETENTION BASIN COMPONENTS



EXHIBIT
D-10

FILE INFO: I:\Projects\10344\1607\APPENDIX D\EXHIBITS\D-10\U-10.dwg MODIFIED: Sep 14, 2012 9:57am BY: sgrazalez PLOTTED: Sep 17, 2012 2:56pm PLOT SCALE: 1=4000