

**APPENDIX D
ENGINEERING DESIGN AND ANALYSIS**

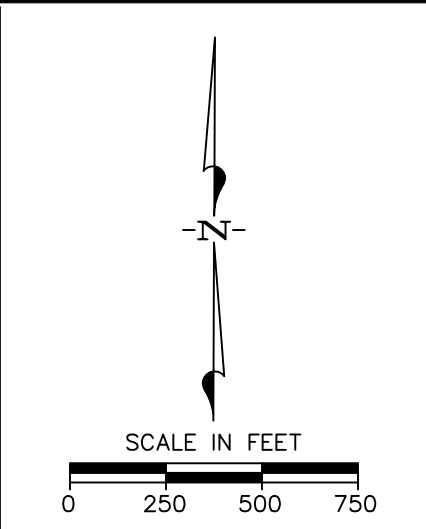
PART 2 – EXHIBITS 11.1 - 16.4

LIST OF EXHIBITS

EXHIBIT NO.

D-11.1	TWLY.0 – Detention at Tidwell and West Little York
D-11.2	TWLY.2 – Detention at Tidwell and West Little York
D-11.3	TWLY.3 – Detention at Tidwell and West Little York
D-11.4	TWLY.5 – Detention at Tidwell and West Little York
D-12.1	NHR.0 – Detention at North Houston Rosslyn
D-12.2	NHR.1 – Detention at North Houston Rosslyn
D-12.3	NHR.2 – Detention at North Houston Rosslyn
D-12.4	NHR.3 – Detention at North Houston Rosslyn
D-12.5	NHR.4 – Detention at North Houston Rosslyn
D-13.1	HOL.1 – Detention at Hollister
D-13.2	HOL.2 – Detention at Hollister
D-13.3	HOL.3 – Detention at Hollister
D-13.4	HOL.4 – Detention at Hollister
D-14.1	FNH.0 – Detention at Fairbanks-North Houston
D-14.2	FNH.1 – Detention at Fairbanks-North Houston
D-14.3	FNH.2 – Detention at Fairbanks-North Houston
D-14.4	FNH.3 – Detention at Fairbanks-North Houston
D-14.5	FNH.4 – Detention at Fairbanks-North Houston
D-15.1	GBW.1 – Detention at Gessner and Beltway 8
D-15.2	GBW.2 – Detention at Gessner and Beltway 8
D-15.3	GBW.3 – Detention at Gessner and Beltway 8
D-15.4	GBW.4 – Detention at Gessner and Beltway 8
D-16.1	RG.1 – Detention at Rio Grande
D-16.2	RG.2 – Detention at Rio Grande
D-16.3	RG.3 – Detention at Rio Grande
D-16.4	RG.4 – Detention at Rio Grande

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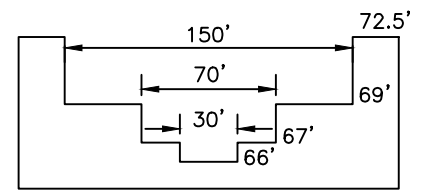


LEGEND

————— H.C.F.C.D. R.O.W.

- - - - - DETENTION FACILITY SITE LIMITS

AERIAL DATE: 2002



DETAIL
INLET STRUCTURE
(NTS)

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

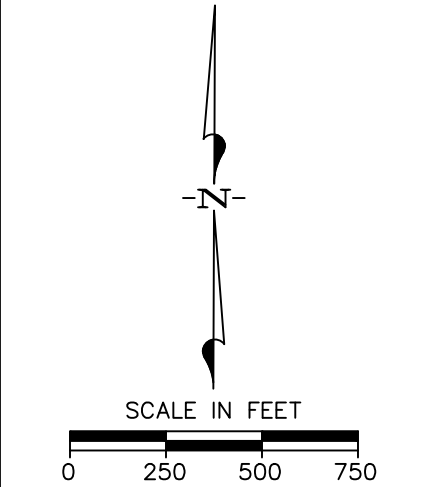
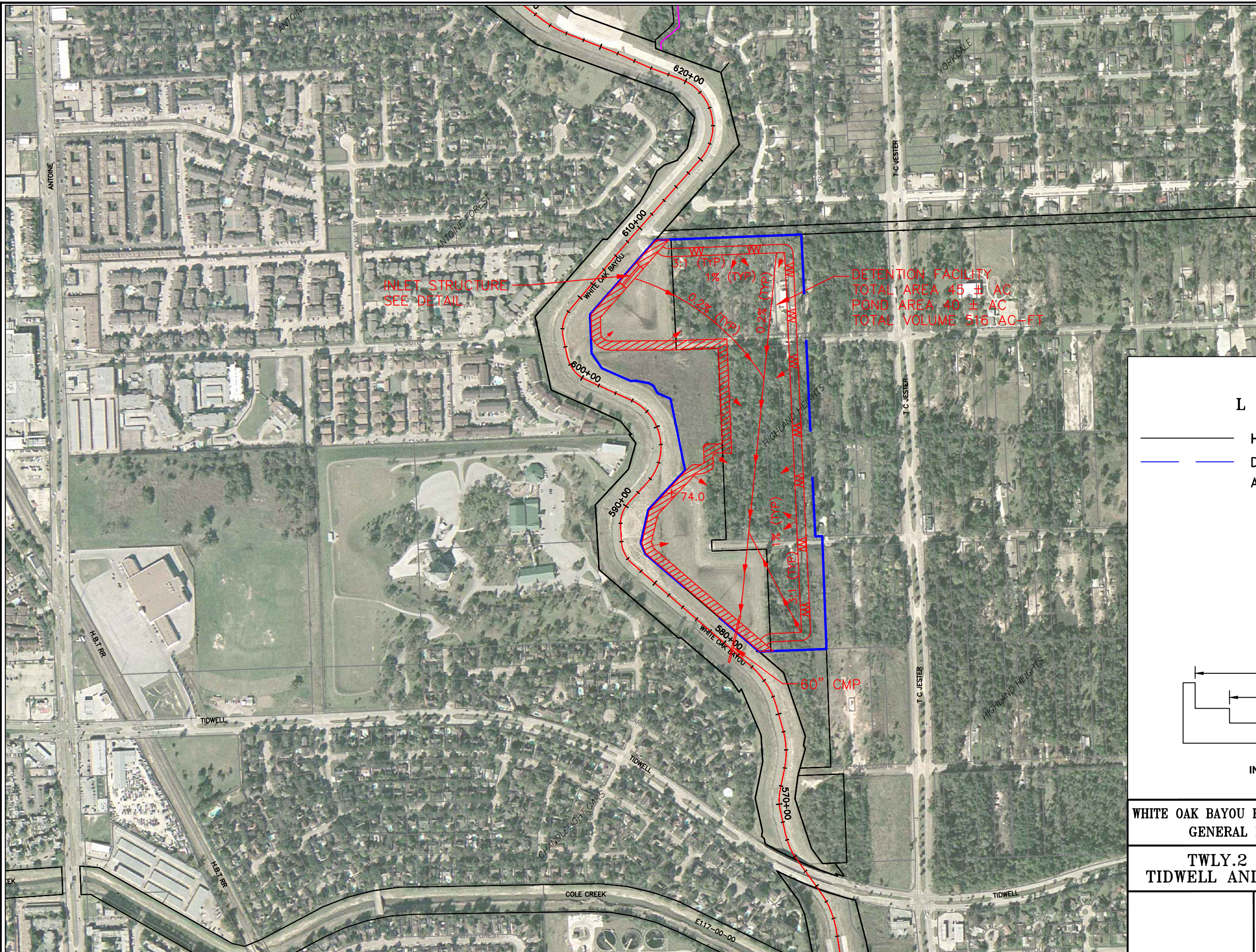
**TWLY.0 - DETENTION AT
TIDWELL AND WEST LITTLE YORK**



EXHIBIT

D-11.1

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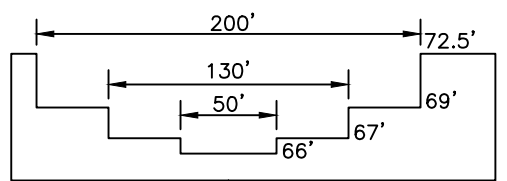


INLET STRUCTURE
SEE DETAIL

DETENTION FACILITY
TOTAL AREA 45 ± AC
POND AREA 40 ± AC
TOTAL VOLUME 516 AC-FT

LEGEND

- H.C.F.C.D. R.O.W.
 - DETENTION FACILITY SITE LIMITS
- AERIAL DATE: 2002



**DETAIL
INLET STRUCTURE
(NTS)**

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

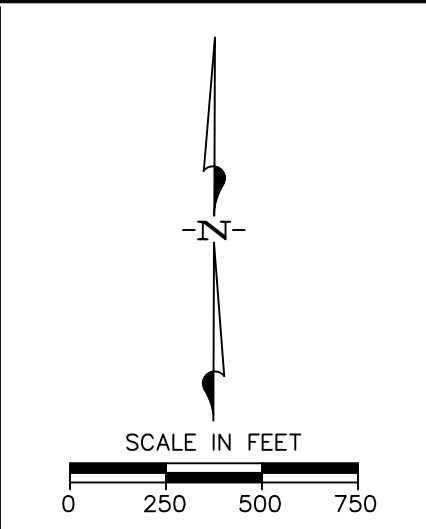
**TWLY.2 - DETENTION AT
TIDWELL AND WEST LITTLE YORK**



EXHIBIT

D-11.2

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DETENTION FACILITY
 TOTAL AREA 69 ± AC
 POND AREA 62 ± AC
 TOTAL VOLUME 1032 AC-FT

INLET STRUCTURE
 SEE DETAIL

LEGEND

————— H.C.F.C.D. R.O.W.
 - - - - - DETENTION FACILITY SITE LIMITS
 AERIAL DATE: 2002

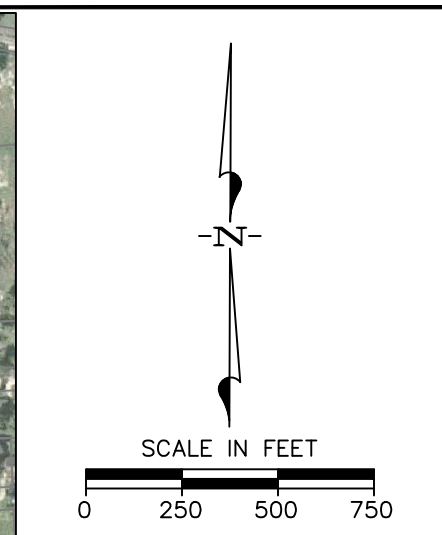
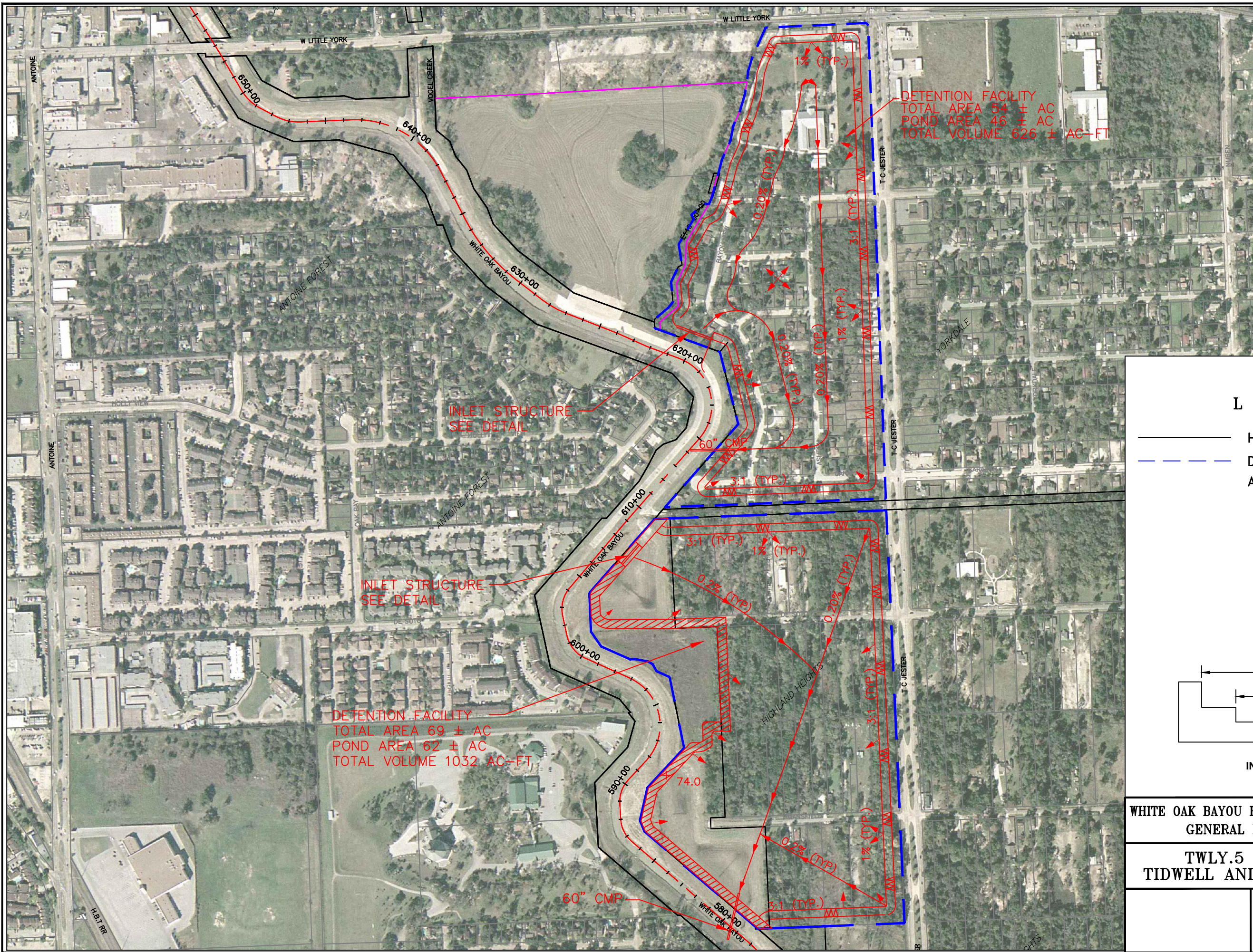
**DETAIL
 INLET STRUCTURE
 (NTS)**

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

**TWLY.3 - DETENTION AT
 TIDWELL AND WEST LITTLE YORK**

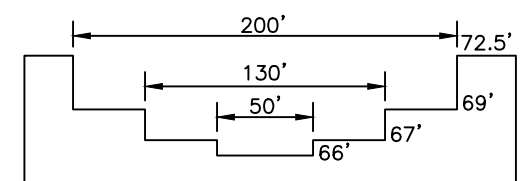


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LEGEND

- H.C.F.C.D. R.O.W.
 - - - - DETENTION FACILITY SITE LIMITS
- AERIAL DATE: 2002



**DETAIL
INLET STRUCTURE
(NTS)**

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

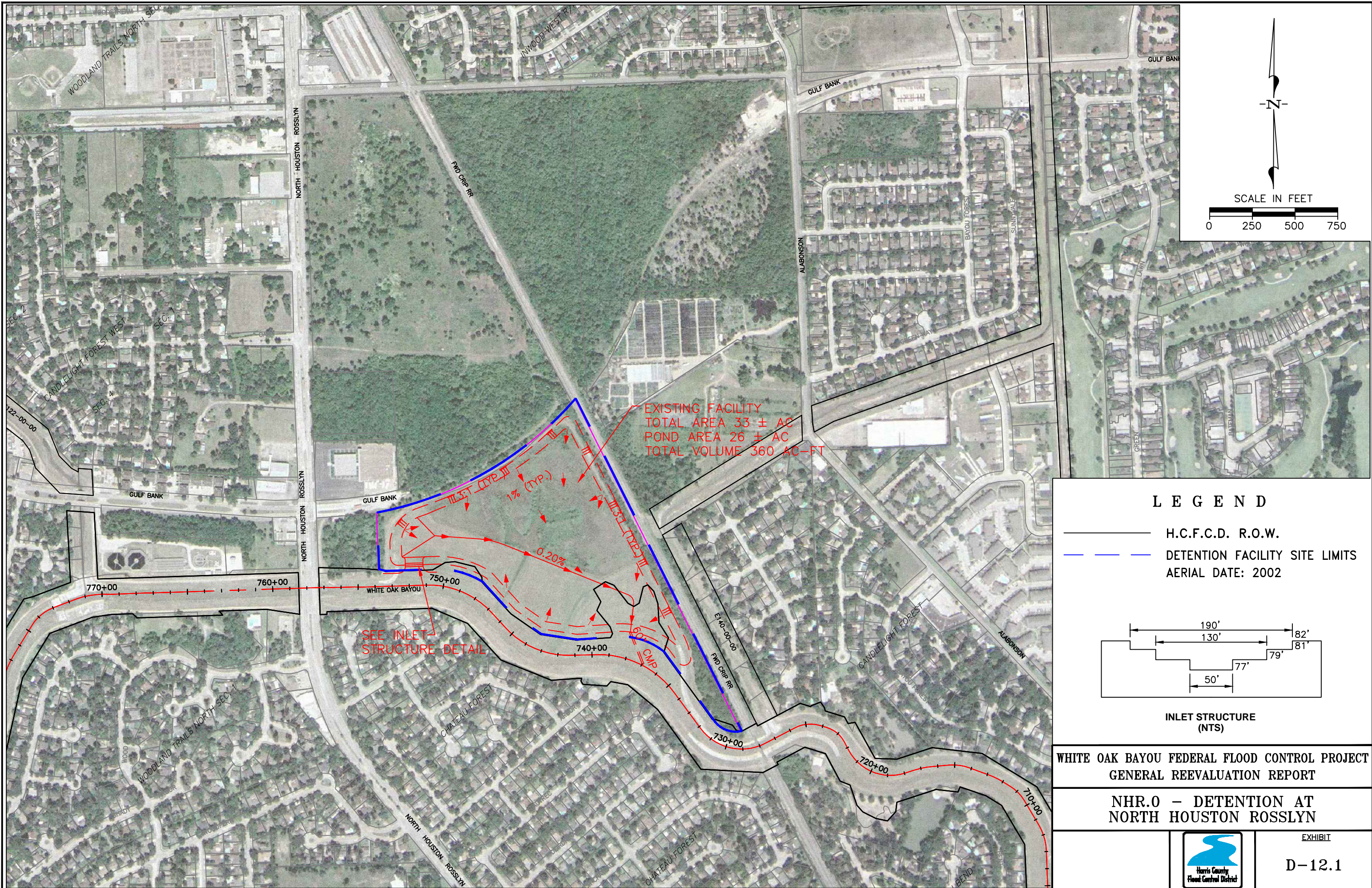
**TWLY.5 - DETENTION AT
TIDWELL AND WEST LITTLE YORK**



EXHIBIT

D-11.4

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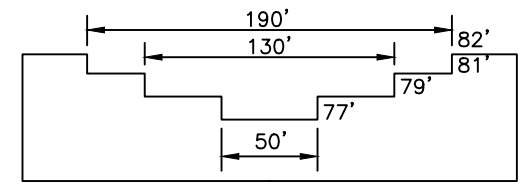


EXISTING FACILITY
TOTAL AREA 33 ± AC
POND AREA 26 ± AC
TOTAL VOLUME 360 AC-FT

SEE INLET
STRUCTURE
DETAIL

LEGEND

- H.C.F.C.D. R.O.W.
- - - - DETENTION FACILITY SITE LIMITS
AERIAL DATE: 2002



INLET STRUCTURE
(NTS)

WHITE OAK BAYOU FEDERAL FLOOD CONTROL PROJECT GENERAL REEVALUATION REPORT

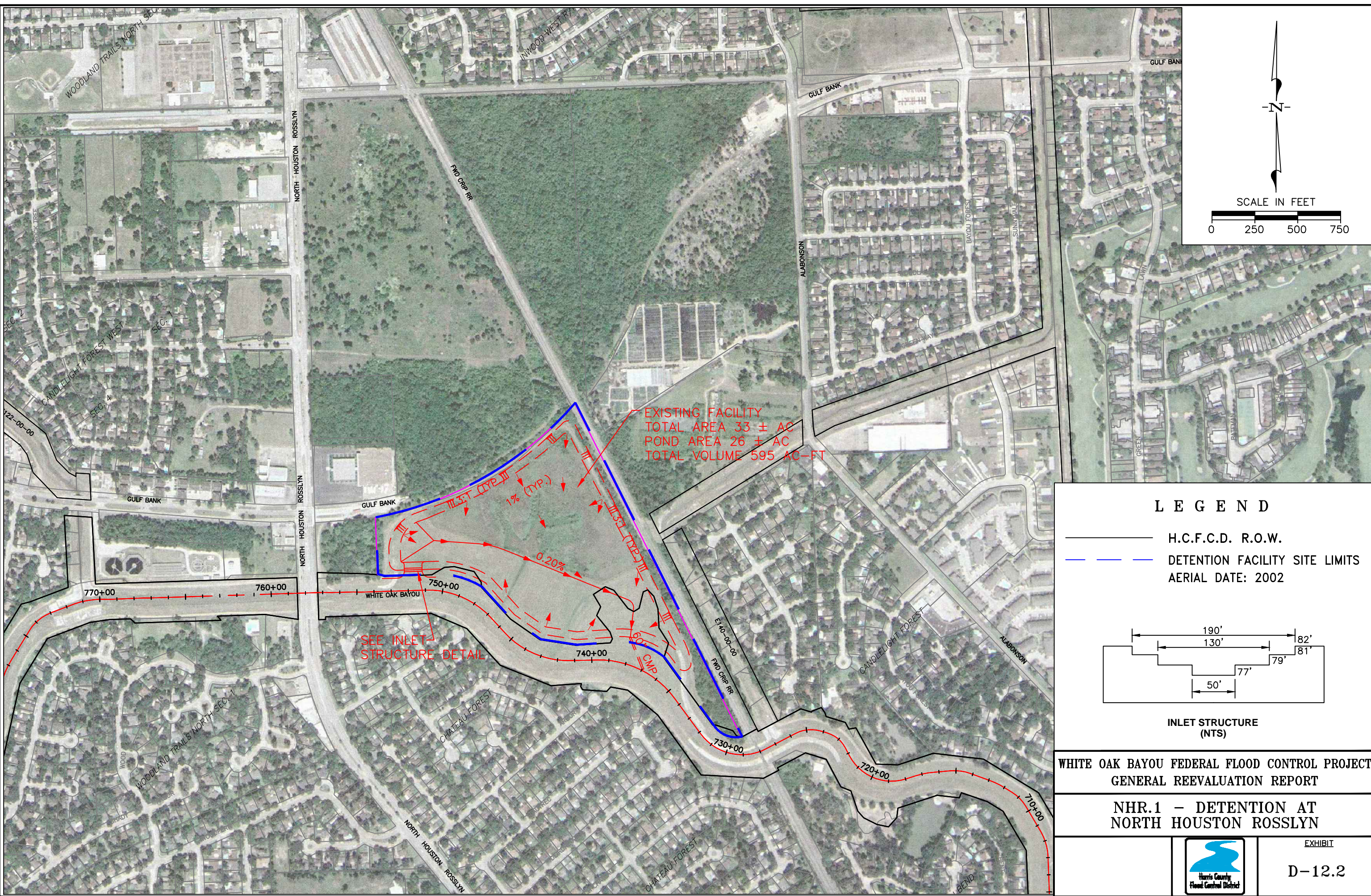
NHR.0 - DETENTION AT NORTH HOUSTON ROSSLYN



EXHIBIT

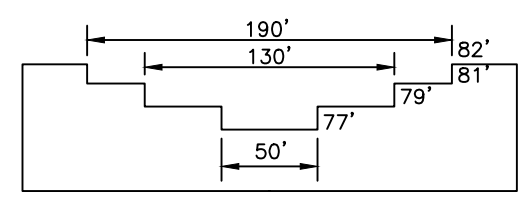
D-12.1

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LEGEND

- H.C.F.C.D. R.O.W.
- DETENTION FACILITY SITE LIMITS
AERIAL DATE: 2002



INLET STRUCTURE (NTS)

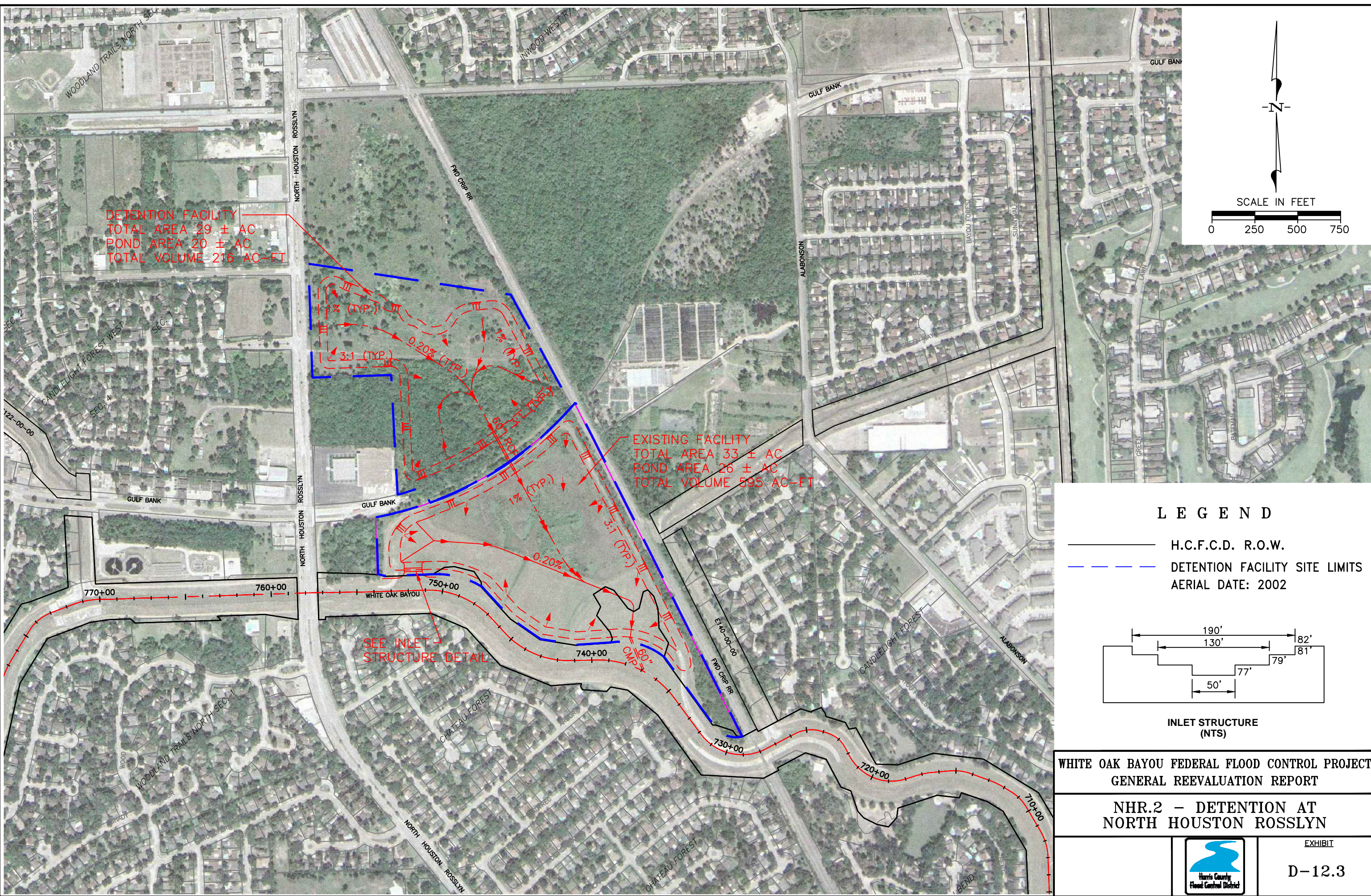
**WHITE OAK BAYOU FEDERAL FLOOD CONTROL PROJECT
GENERAL REEVALUATION REPORT**

**NHR.1 - DETENTION AT
NORTH HOUSTON ROSSLYN**



EXHIBIT
D-12.2

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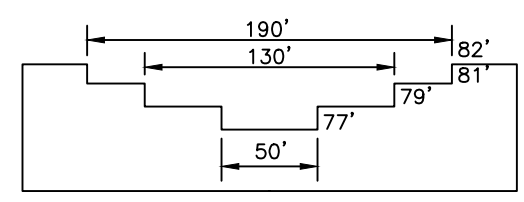
DETECTION FACILITY
 TOTAL AREA 29 ± AC
 POND AREA 20 ± AC
 TOTAL VOLUME 216 AC-FT

EXISTING FACILITY
 TOTAL AREA 33 ± AC
 POND AREA 26 ± AC
 TOTAL VOLUME 595 AC-FT

SEE INLET
 STRUCTURE
 DETAIL

LEGEND

- H.C.F.C.D. R.O.W.
- - - DETENTION FACILITY SITE LIMITS
 AERIAL DATE: 2002



INLET STRUCTURE
 (NTS)

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

**NHR.2 - DETENTION AT
 NORTH HOUSTON ROSSLYN**



EXHIBIT

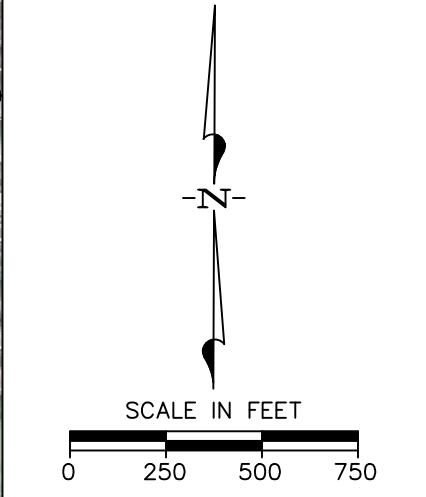
D-12.3

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DETENTION FACILITY
 TOTAL AREA 50 ± AC
 POND AREA 40 ± AC
 TOTAL VOLUME 474 AC-FT

EXISTING FACILITY
 TOTAL AREA 33 ± AC
 POND AREA 26 ± AC
 TOTAL VOLUME 595 AC-FT



LEGEND

- H.C.F.C.D. R.O.W.
- - - DETENTION FACILITY SITE LIMITS
AERIAL DATE: 2002

INLET STRUCTURE
(NTS)

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

**NHR.3 - DETENTION AT
 NORTH HOUSTON ROSSLYN**



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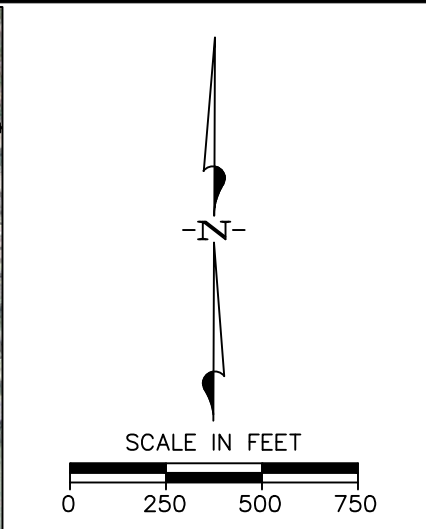


DETENTION FACILITY
TOTAL AREA 50 ± AC
POND AREA 40 ± AC
TOTAL VOLUME 474 AC-FT

EXISTING FACILITY
TOTAL AREA 56 ± AC
POND AREA 48 ± AC
TOTAL VOLUME 142 AC-FT

EXISTING FACILITY
TOTAL AREA 33 ± AC
POND AREA 26 ± AC
TOTAL VOLUME 595 AC-FT

SEE INLET
STRUCTURE
DETAIL



LEGEND

————— H.C.F.C.D. R.O.W.

----- DETENTION FACILITY SITE LIMITS
AERIAL DATE: 2002

INLET STRUCTURE
(NTS)

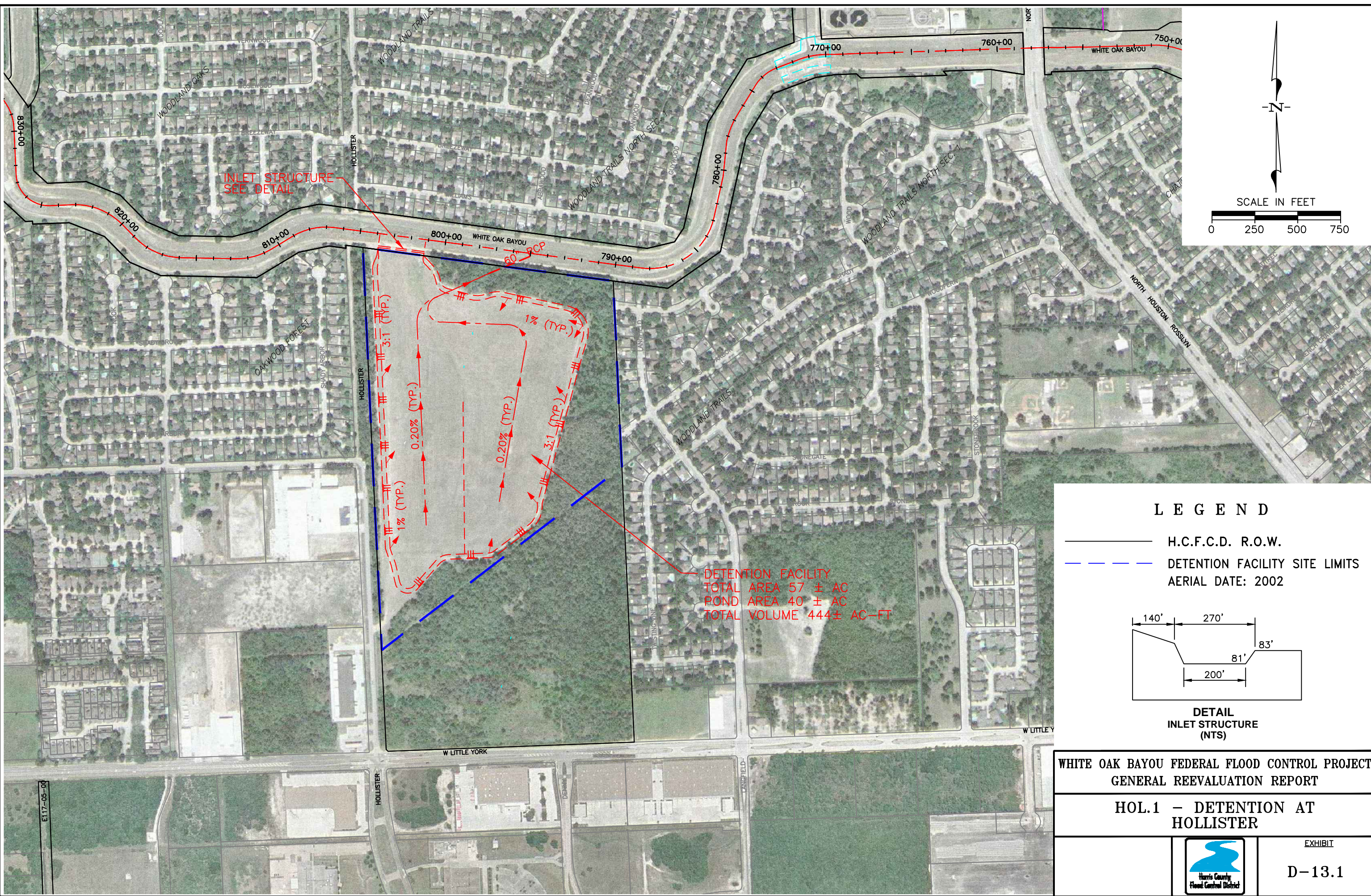
**WHITE OAK BAYOU FEDERAL FLOOD CONTROL PROJECT
GENERAL REEVALUATION REPORT**

**NHR.4 - DETENTION AT
NORTH HOUSTON ROSSLYN**



EXHIBIT
D-12.5

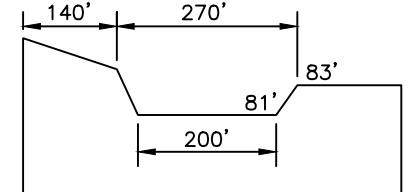
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DETENTION FACILITY
 TOTAL AREA 57 ± AC
 POND AREA 40 ± AC
 TOTAL VOLUME 444 ± AC-FT

LEGEND

- H.C.F.C.D. R.O.W.
 - - - - - DETENTION FACILITY SITE LIMITS
- AERIAL DATE: 2002



**DETAIL
 INLET STRUCTURE
 (NTS)**

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

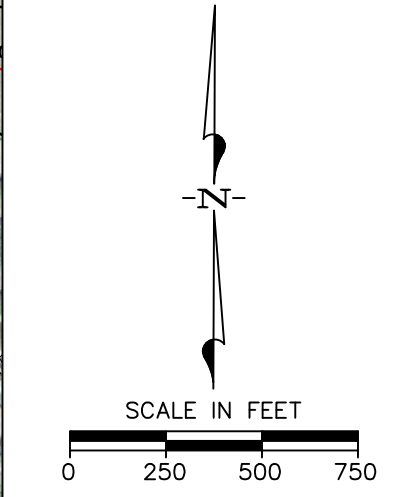
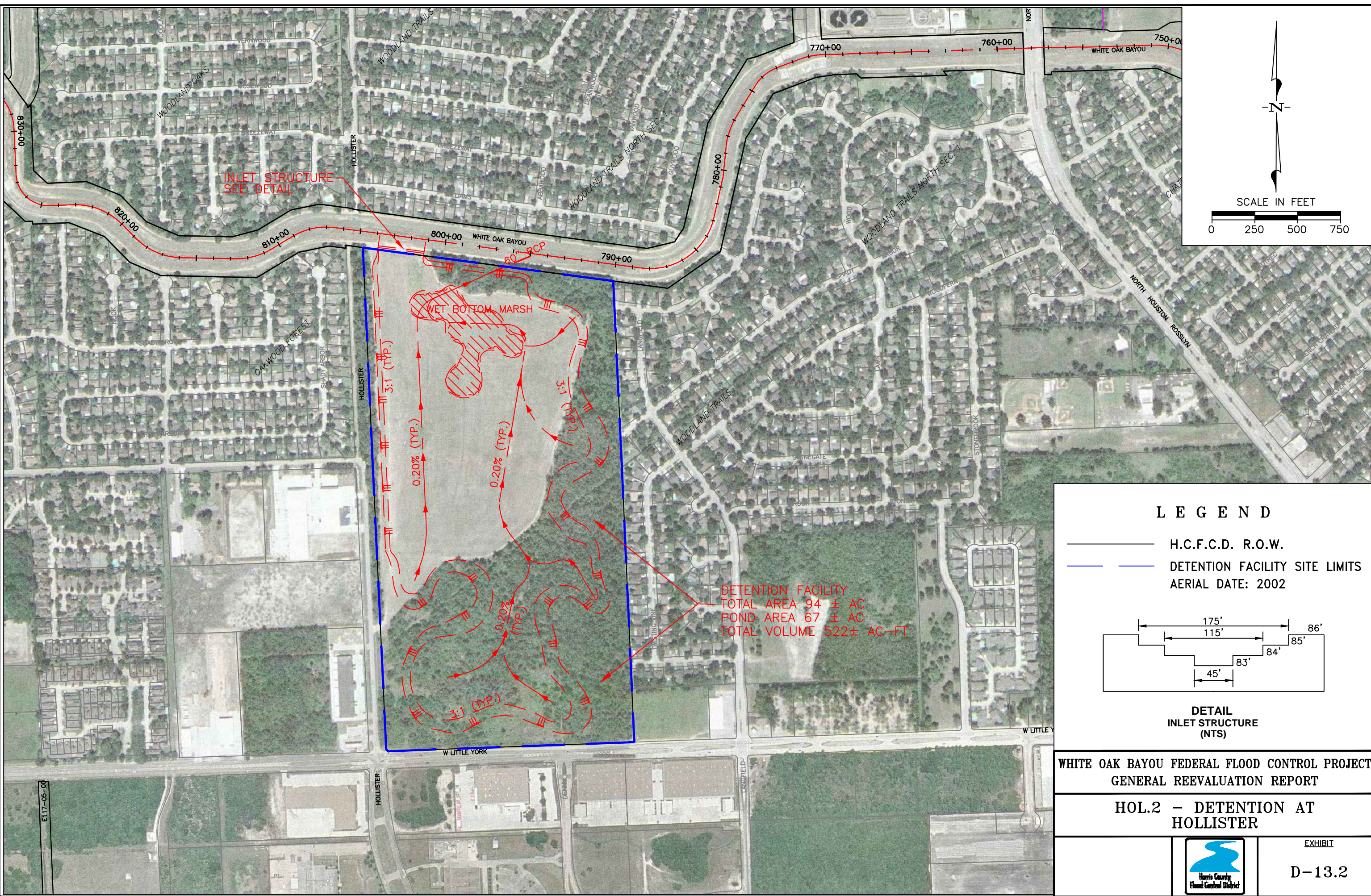
**HOL.1 – DETENTION AT
 HOLLISTER**



EXHIBIT

D-13.1

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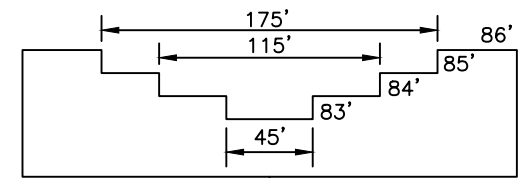
INLET STRUCTURE
SEE DETAIL

WET BOTTOM MARSH

DETENTION FACILITY
TOTAL AREA 94 ± AC
POND AREA 67 ± AC
TOTAL VOLUME 522 ± AC-FT

LEGEND

- H.C.F.C.D. R.O.W.
 - DETENTION FACILITY SITE LIMITS
- AERIAL DATE: 2002



**DETAIL
INLET STRUCTURE
(NTS)**

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

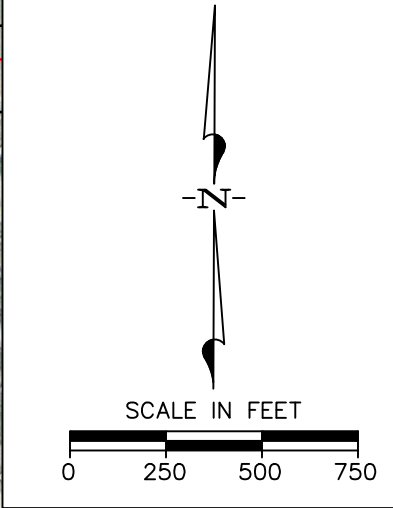
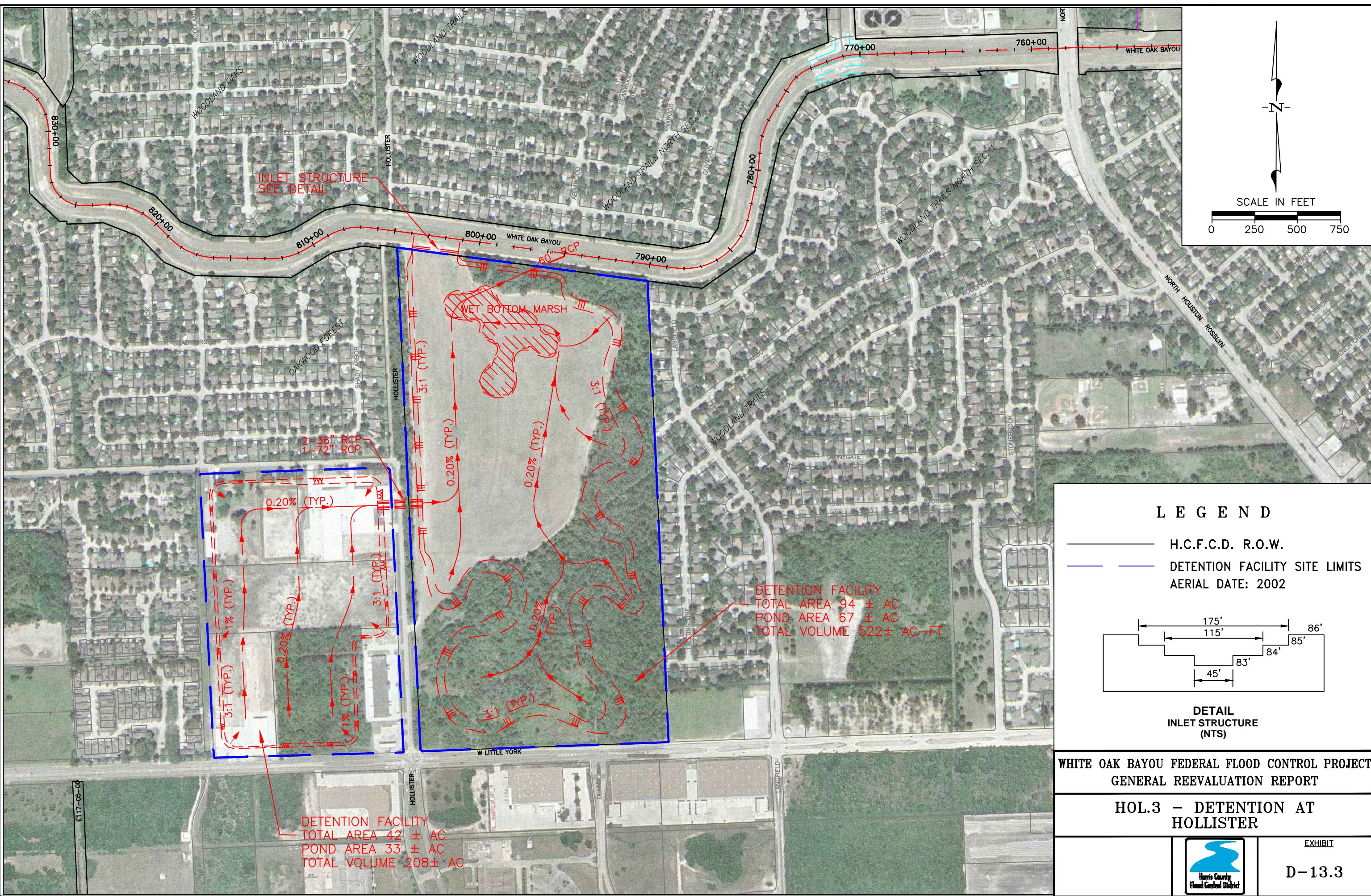
**HOL.2 – DETENTION AT
HOLLISTER**



EXHIBIT

D-13.2

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LEGEND

H.C.F.C.D. R.O.W.
 DETENTION FACILITY SITE LIMITS
 AERIAL DATE: 2002

**DETAIL
INLET STRUCTURE
(NTS)**

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

**HOL.3 – DETENTION AT
HOLLISTER**



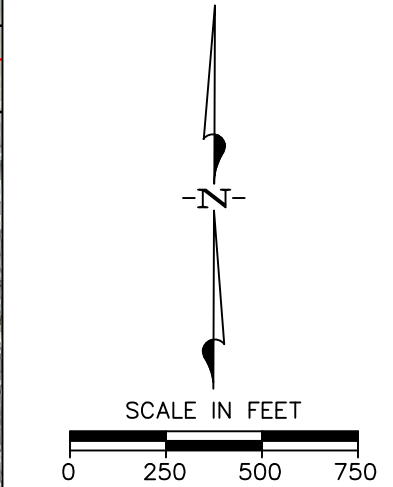
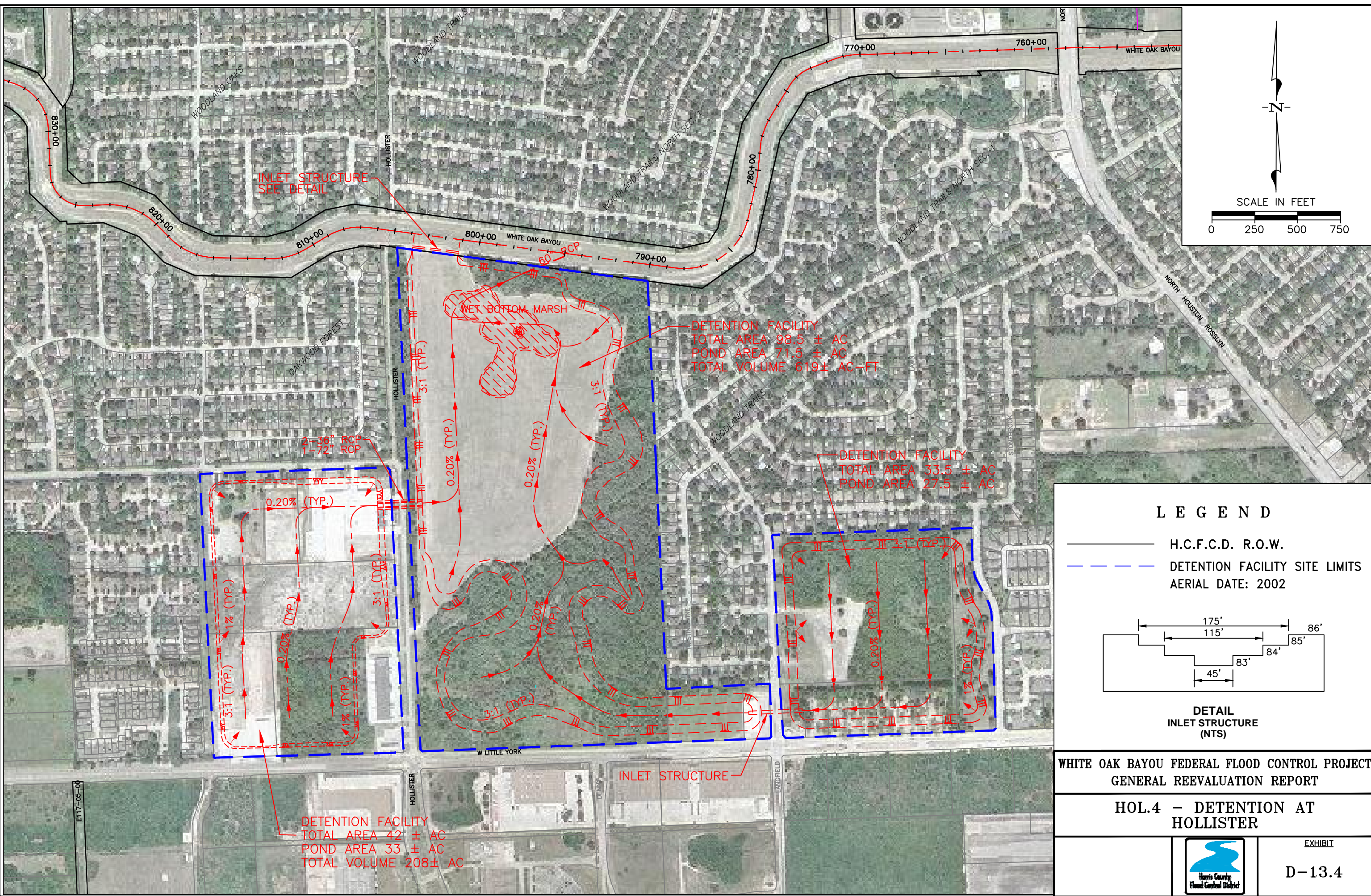
EXHIBIT
D-13.3

DETENTION FACILITY
 TOTAL AREA 42 ± AC
 POND AREA 33 ± AC
 TOTAL VOLUME 208 ± AC-FT

DETENTION FACILITY
 TOTAL AREA 94 ± AC
 POND AREA 67 ± AC
 TOTAL VOLUME 522 ± AC-FT

INLET STRUCTURE
 SEE DETAIL

FILE INFO: I:\Projects\0344\APPENDIX D\EXHIBITS\New Folder\0-13.4\F_D-13.4.dwg XREFS: Web-raw, Bp03, Sx400; ALT-COMP, WOBTBLK; WOB-LITLS01; WOB-CH-3; WOB-CUB1; LAYOUT_6 MODIFIED: Sep 14, 2012 11:16am BY: agonzalez PLOTTED: Sep 17, 2012 3:13pm PLOT SCALE: 1=1



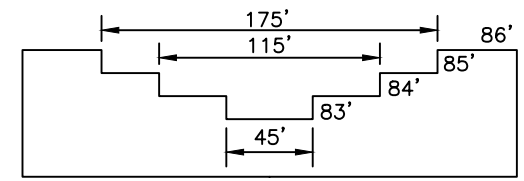
DETECTION FACILITY
 TOTAL AREA 98.5 ± AC
 POND AREA 71.5 ± AC
 TOTAL VOLUME 619 ± AC-FT

DETECTION FACILITY
 TOTAL AREA 33.5 ± AC
 POND AREA 27.5 ± AC

DETECTION FACILITY
 TOTAL AREA 42 ± AC
 POND AREA 33 ± AC
 TOTAL VOLUME 208 ± AC

LEGEND

- H.C.F.C.D. R.O.W.
- - - DETENTION FACILITY SITE LIMITS
- AERIAL DATE: 2002



**DETAIL
 INLET STRUCTURE
 (NTS)**

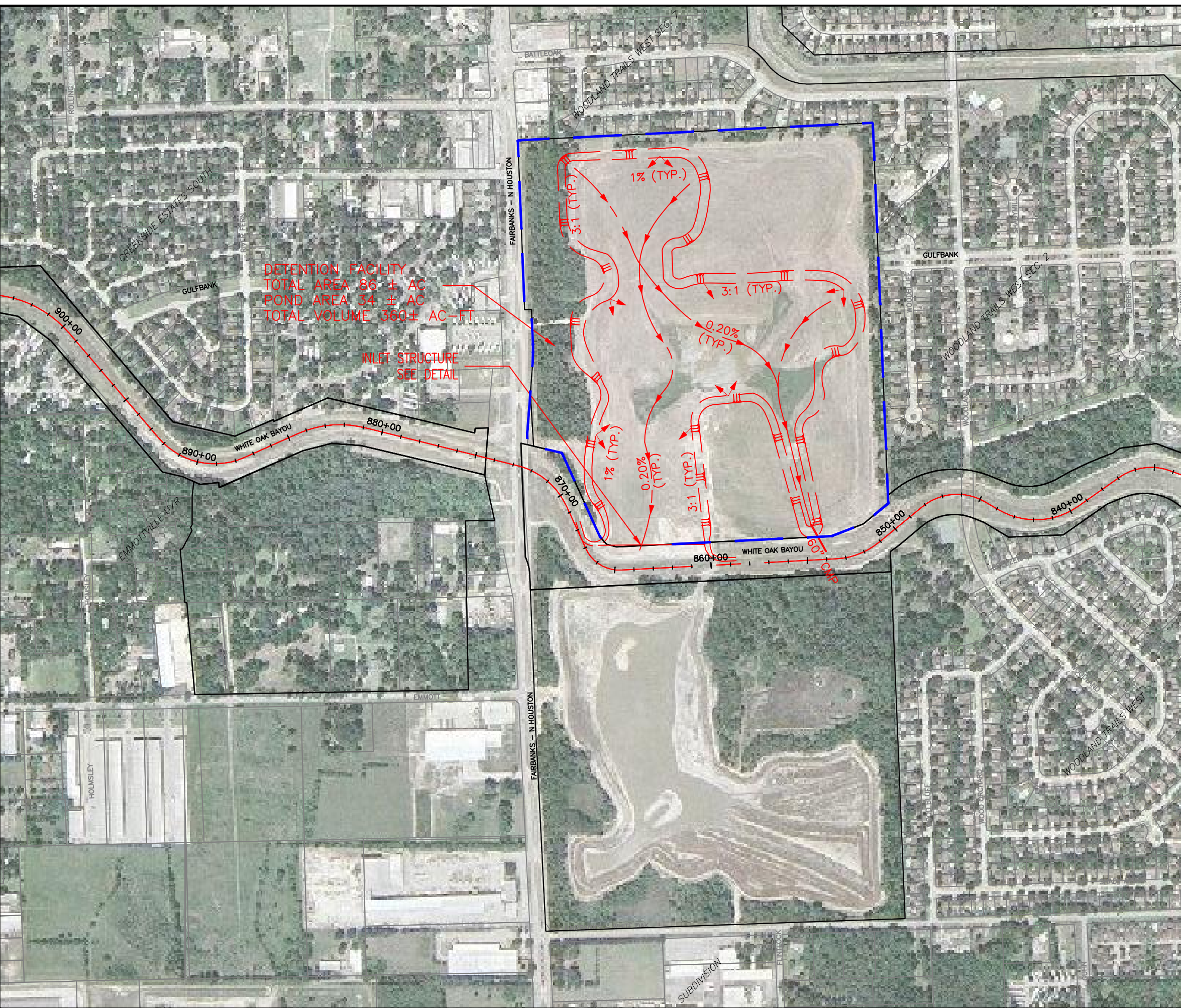
**WHITE OAK BAYOU FEDERAL FLOOD CONTROL PROJECT
 GENERAL REEVALUATION REPORT**

**HOL.4 – DETENTION AT
 HOLLISTER**



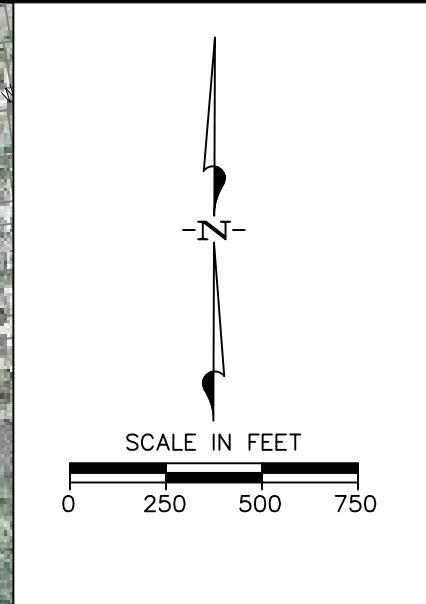
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DETENTION FACILITY
 TOTAL AREA 86 ± AC
 POND AREA 34 ± AC
 TOTAL VOLUME 360± AC-FT

INLET STRUCTURE
 SEE DETAIL



LEGEND

- H.C.F.C.D. R.O.W.
- DETENTION FACILITY SITE LIMITS

AERIAL DATE: 2002

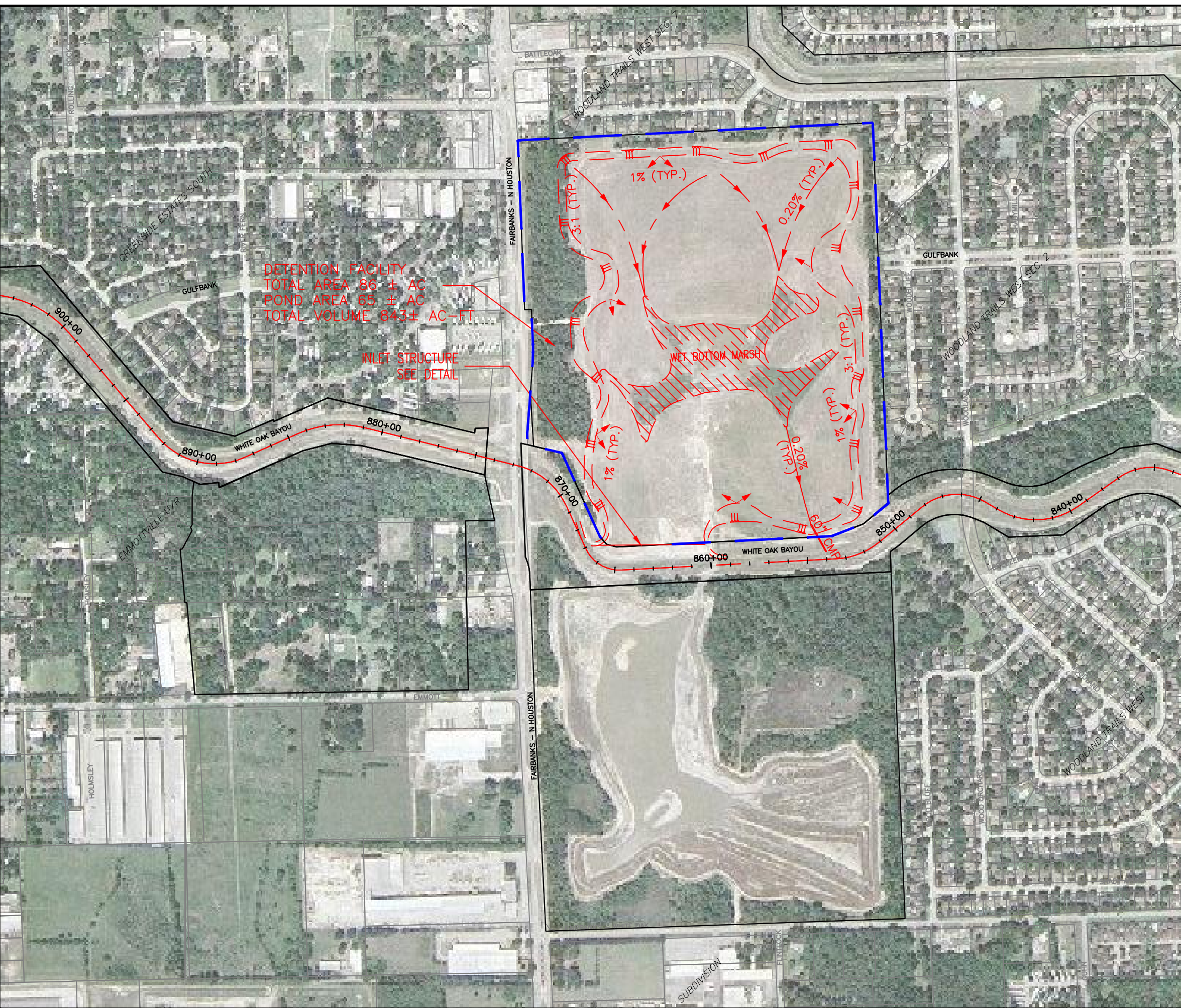
**DETAIL
 INLET STRUCTURE
 (NTS)**

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

**FNH.0 - DETENTION AT
 FAIRBANKS-NORTH HOUSTON**

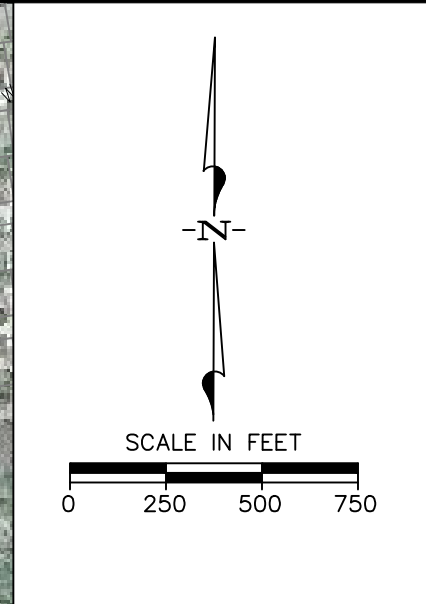


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DETENTION FACILITY
 TOTAL AREA 86 ± AC
 POND AREA 65 ± AC
 TOTAL VOLUME 843 ± AC-FT

INLET STRUCTURE
 SEE DETAIL



LEGEND

— H.C.F.C.D. R.O.W.
 — DETENTION FACILITY SITE LIMITS
 AERIAL DATE: 2002

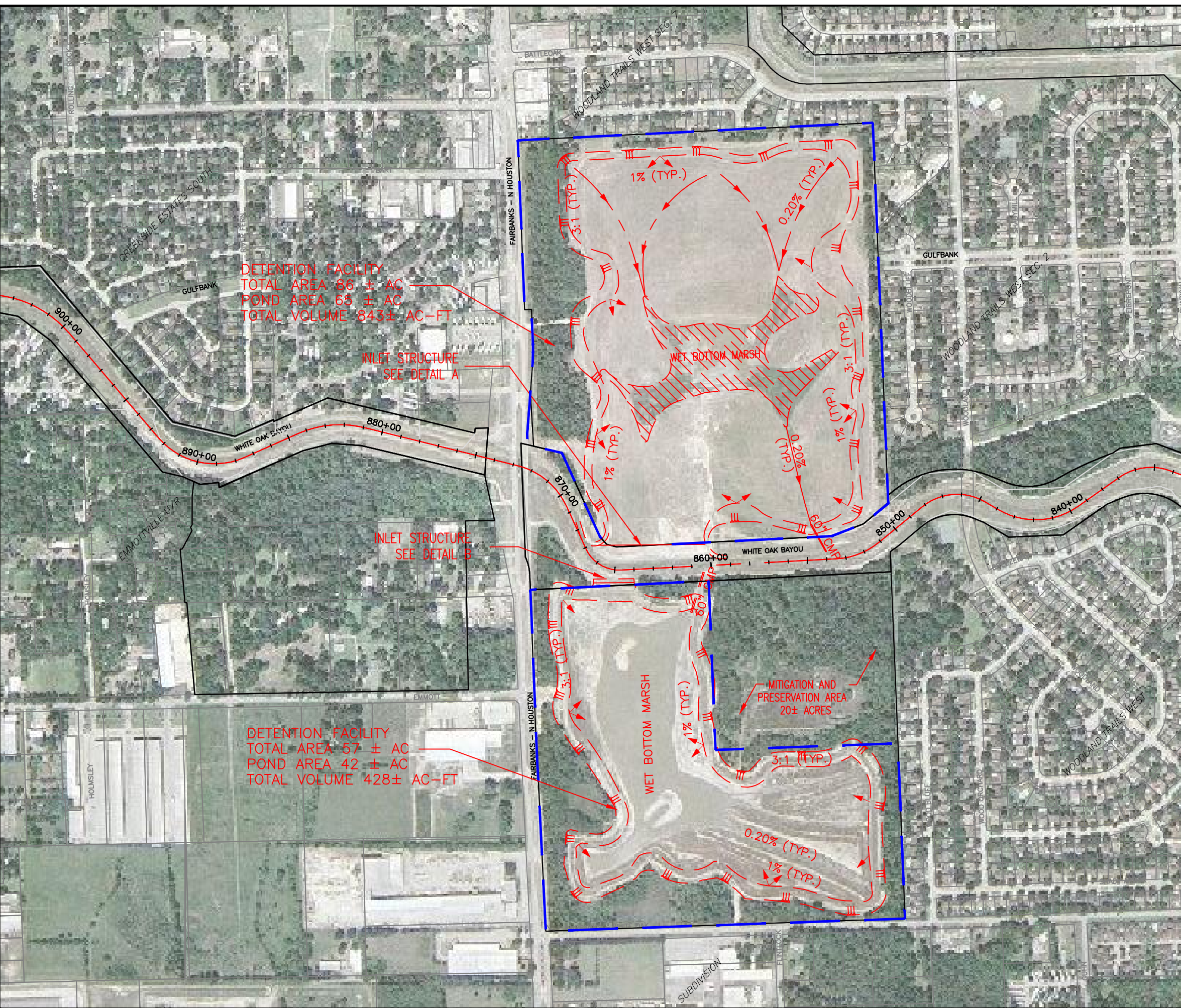
**DETAIL
 INLET STRUCTURE
 (NTS)**

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

**FNH.1 – DETENTION AT
 FAIRBANKS-NORTH HOUSTON**



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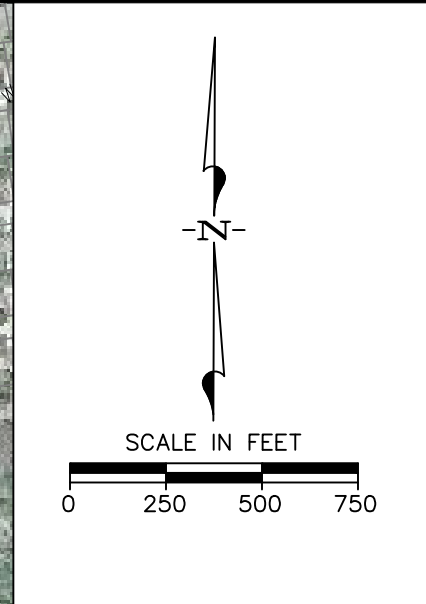


DETECTION FACILITY
TOTAL AREA 86 ± AC
POND AREA 68 ± AC
TOTAL VOLUME 843 ± AC-FT

INLET STRUCTURE
SEE DETAIL A

INLET STRUCTURE
SEE DETAIL B

DETECTION FACILITY
TOTAL AREA 57 ± AC
POND AREA 42 ± AC
TOTAL VOLUME 428 ± AC-FT



LEGEND

- H.C.F.C.D. R.O.W.
- DETENTION FACILITY SITE LIMITS

AERIAL DATE: 2002

**DETAIL A
INLET STRUCTURE
(NTS)**

**DETAIL B
INLET STRUCTURE
(NTS)**

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

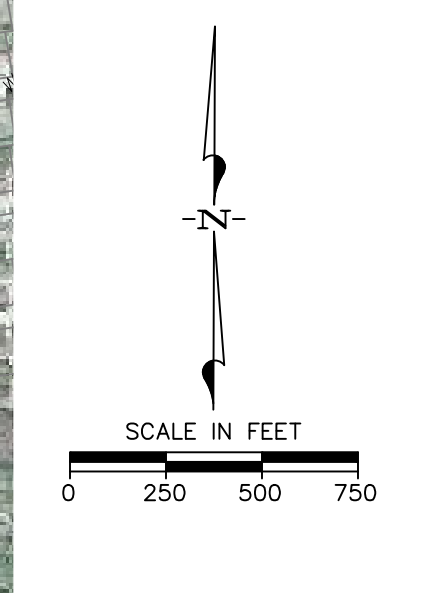
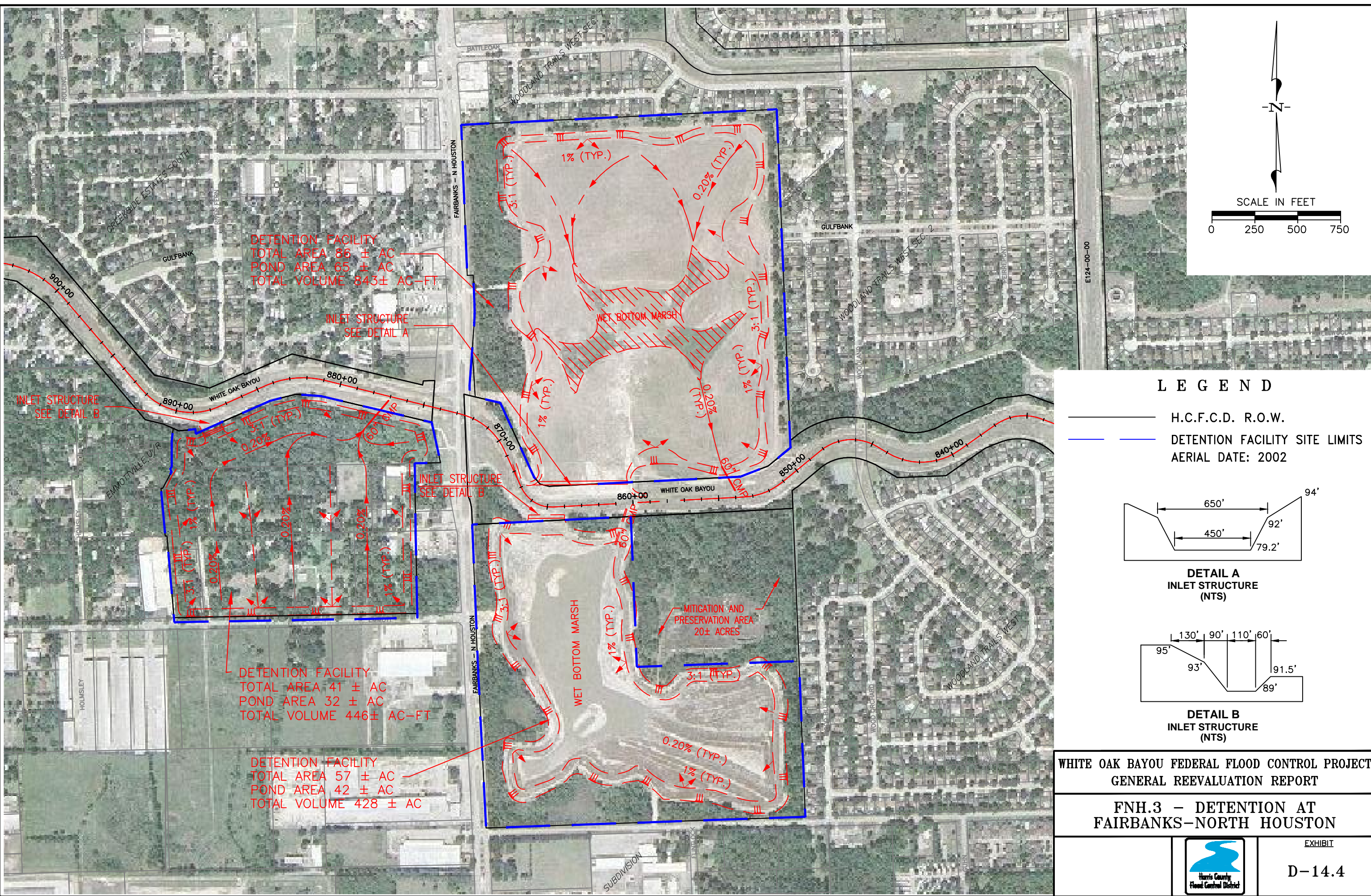
**FNH.2 - DETENTION AT
FAIRBANKS-NORTH HOUSTON**



EXHIBIT

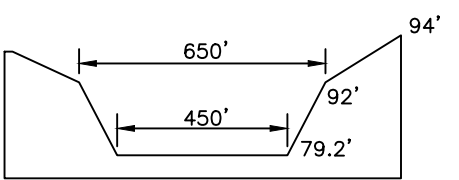
D-14.3

FILE INFO: I:\Projects\0344\APPENDIX D\EXHIBITS\New Folder\D-14.4\F_D-14.4.dwg XREFS: Web-row, Bp03, Sx400; ALT-COMP, WOBIBLK, WOB-UTILS01; WOB-CH-3; WOB-CUB1; LAYOUT_6 MODIFIED: Sep 14, 2012 11:24am BY: sgonzalez PLOTTED: Sep 17, 2012 3:26pm PLOT SCALE: 1=1

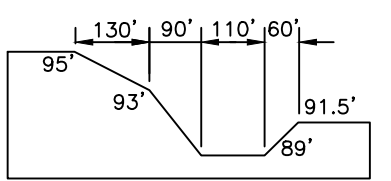


LEGEND

- H.C.F.C.D. R.O.W.
 - DETENTION FACILITY SITE LIMITS
- AERIAL DATE: 2002



DETAIL A
INLET STRUCTURE
(NTS)



DETAIL B
INLET STRUCTURE
(NTS)

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

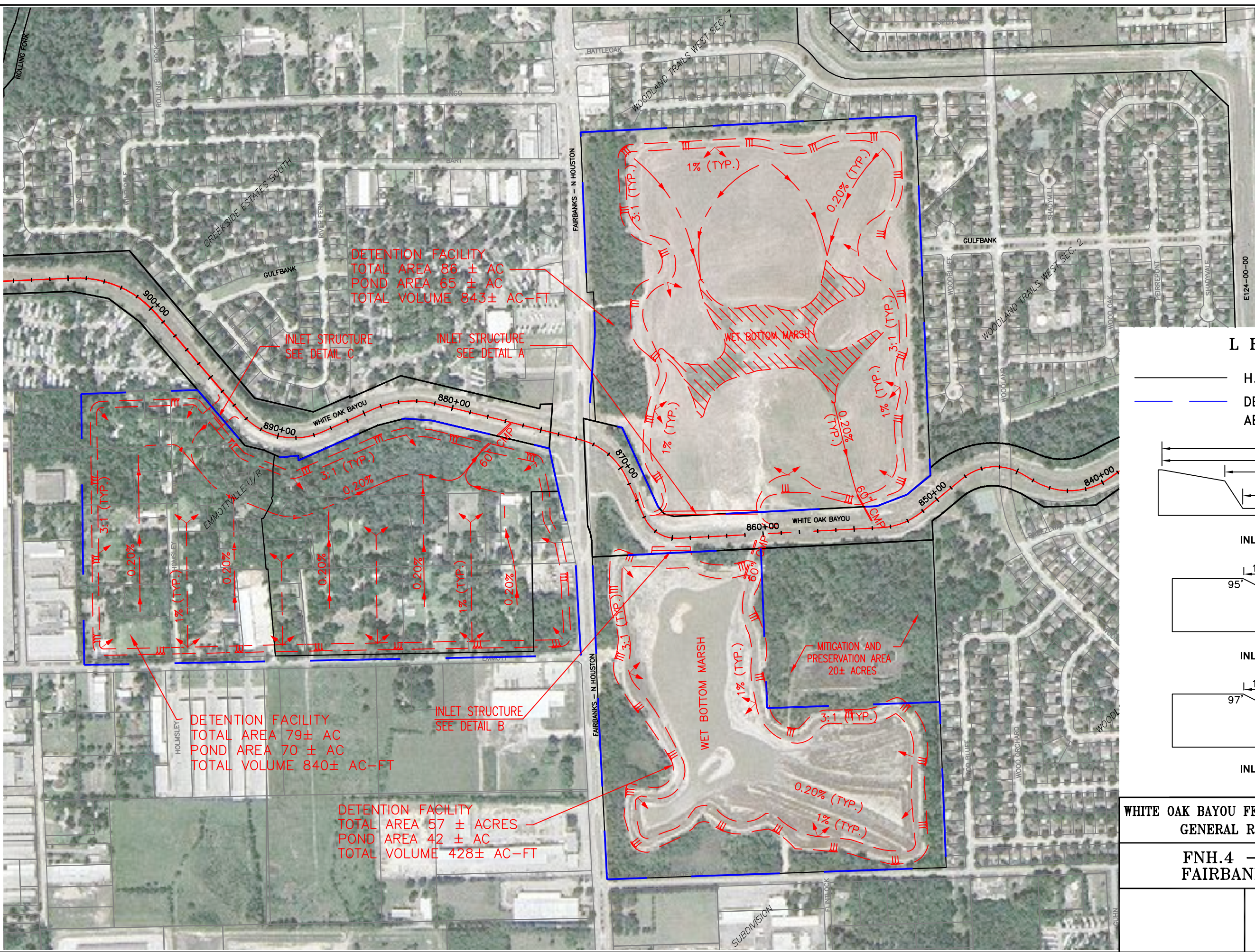
**FNH.3 - DETENTION AT
FAIRBANKS-NORTH HOUSTON**



EXHIBIT

D-14.4

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DETENTION FACILITY
TOTAL AREA 86 ± AC
POND AREA 65 ± AC
TOTAL VOLUME 843± AC-FT

INLET STRUCTURE
SEE DETAIL C

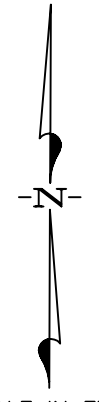
INLET STRUCTURE
SEE DETAIL A

DETENTION FACILITY
TOTAL AREA 79± AC
POND AREA 70 ± AC
TOTAL VOLUME 840± AC-FT

INLET STRUCTURE
SEE DETAIL B

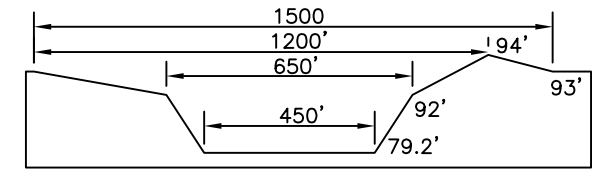
DETENTION FACILITY
TOTAL AREA 57 ± ACRES
POND AREA 42 ± AC
TOTAL VOLUME 428± AC-FT

MITIGATION AND
PRESERVATION AREA
20± ACRES

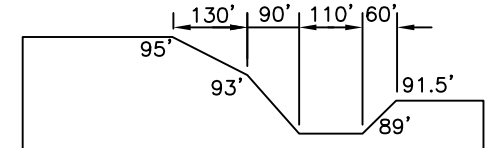


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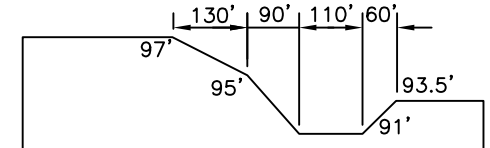
- H.C.F.C.D. R.O.W.
- DETENTION FACILITY SITE LIMITS
AERIAL DATE: 2002



**DETAIL A
INLET STRUCTURE
(NTS)**



**DETAIL B
INLET STRUCTURE
(NTS)**



**DETAIL C
INLET STRUCTURE
(NTS)**

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

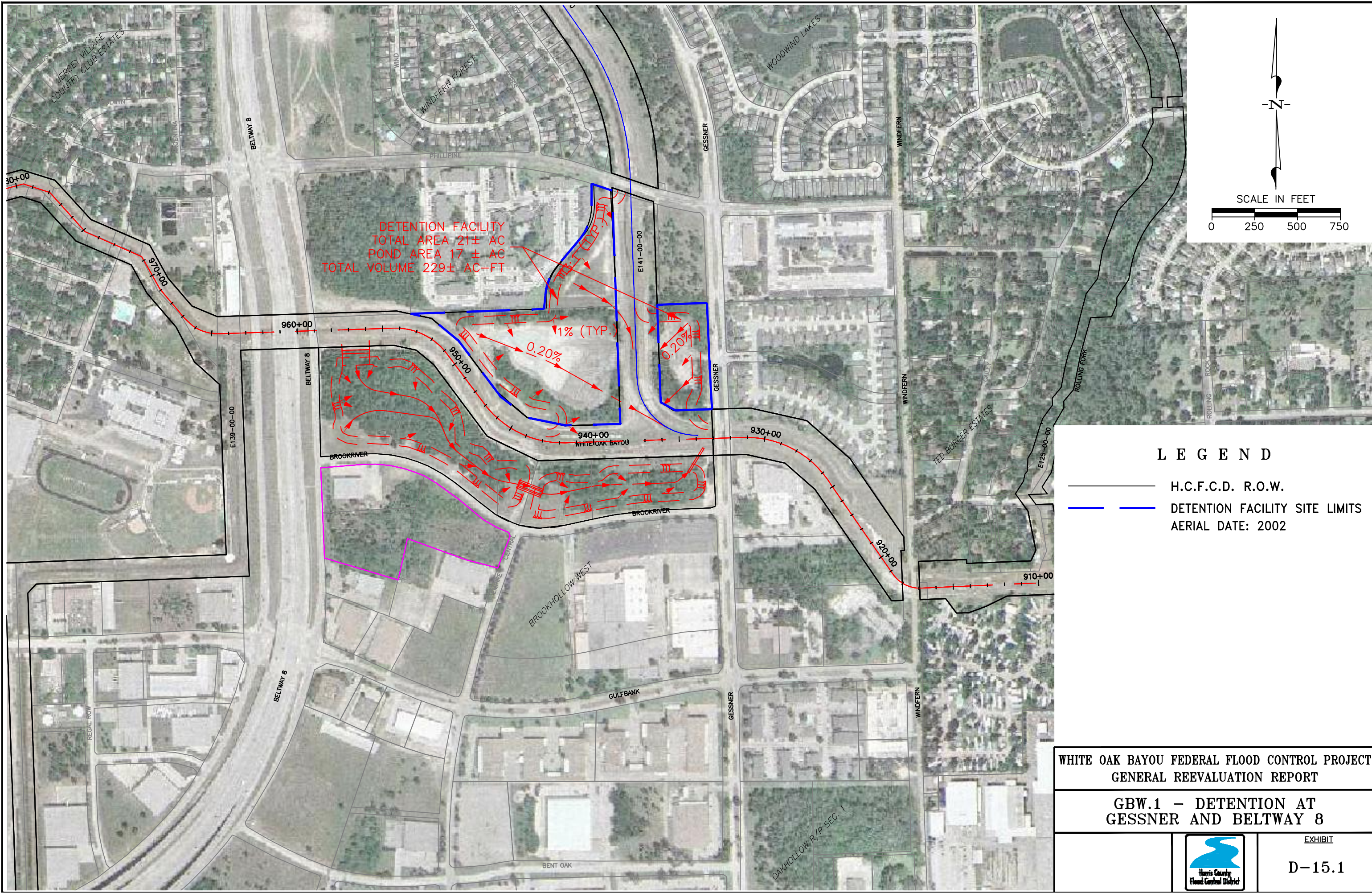
**FNH.4 - DETENTION AT
FAIRBANKS-N. HOUSTON**





EXHIBIT

D-14.5

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LEGEND

-  H.C.F.C.D. R.O.W.
 -  DETENTION FACILITY SITE LIMITS
- AERIAL DATE: 2002

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

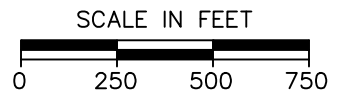
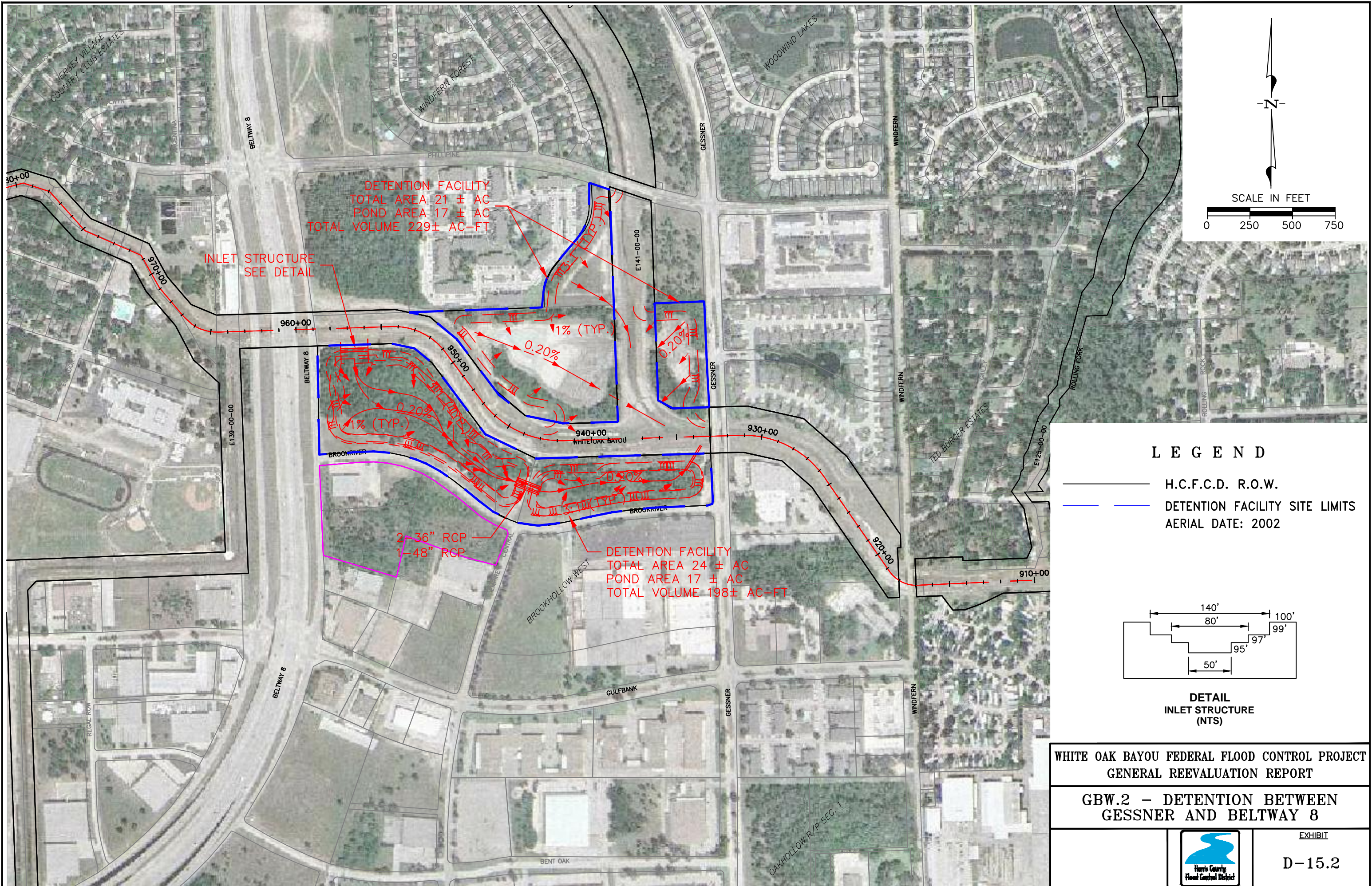
**GBW.1 - DETENTION AT
GESSNER AND BELTWAY 8**



EXHIBIT

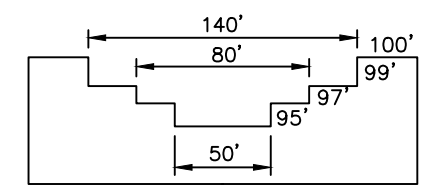
D-15.1

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LEGEND

- H.C.F.C.D. R.O.W.
 - DETENTION FACILITY SITE LIMITS
- AERIAL DATE: 2002



**DETAIL
INLET STRUCTURE
(NTS)**

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

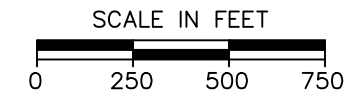
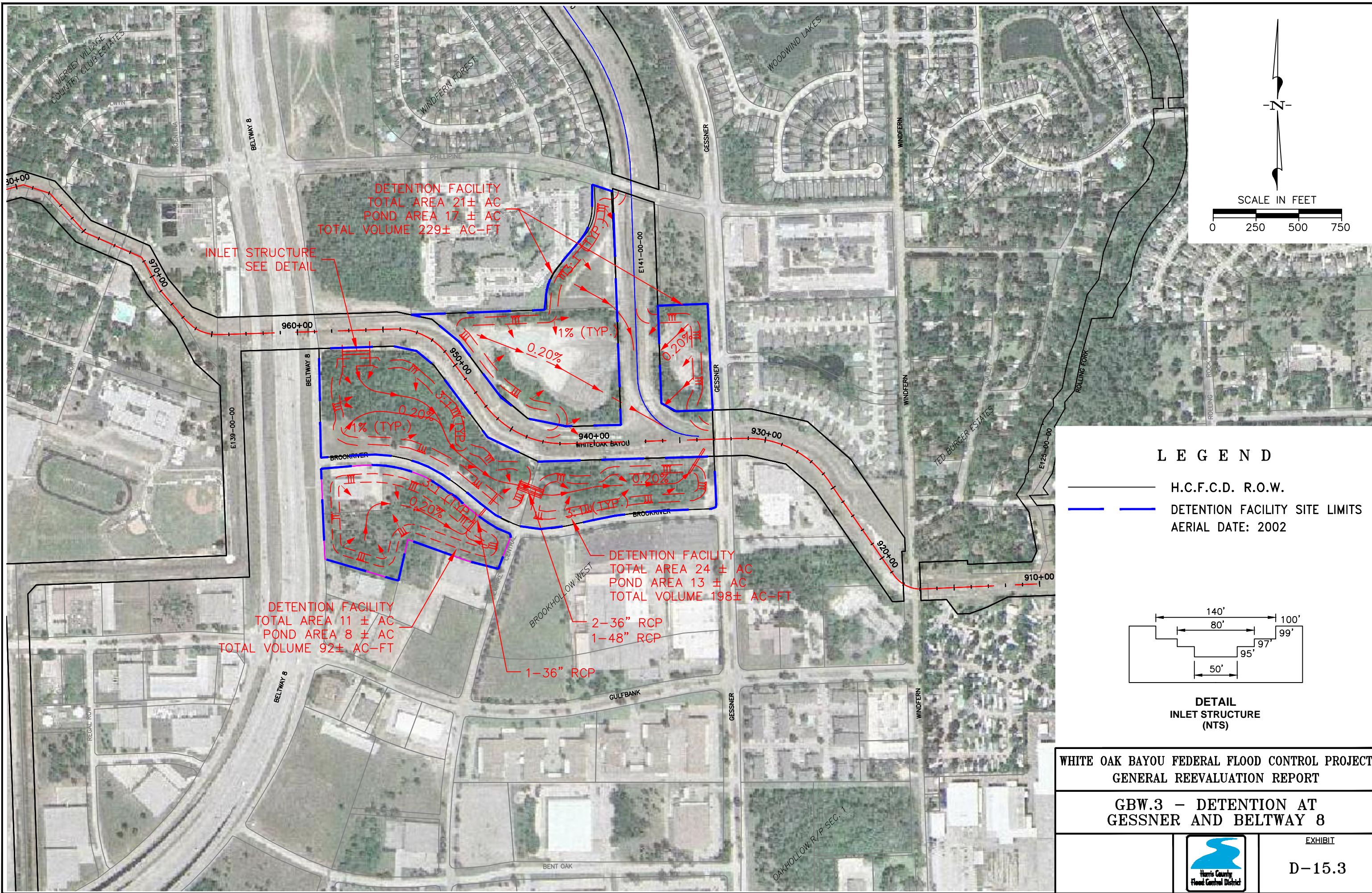
**GBW.2 - DETENTION BETWEEN
GESSNER AND BELTWAY 8**



EXHIBIT

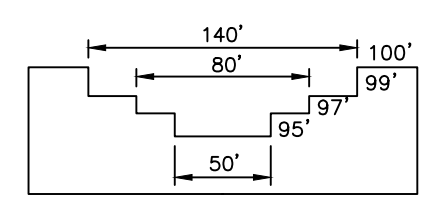
D-15.2

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LEGEND

- H.C.F.C.D. R.O.W.
 - DETENTION FACILITY SITE LIMITS
- AERIAL DATE: 2002



**DETAIL
INLET STRUCTURE
(NTS)**

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

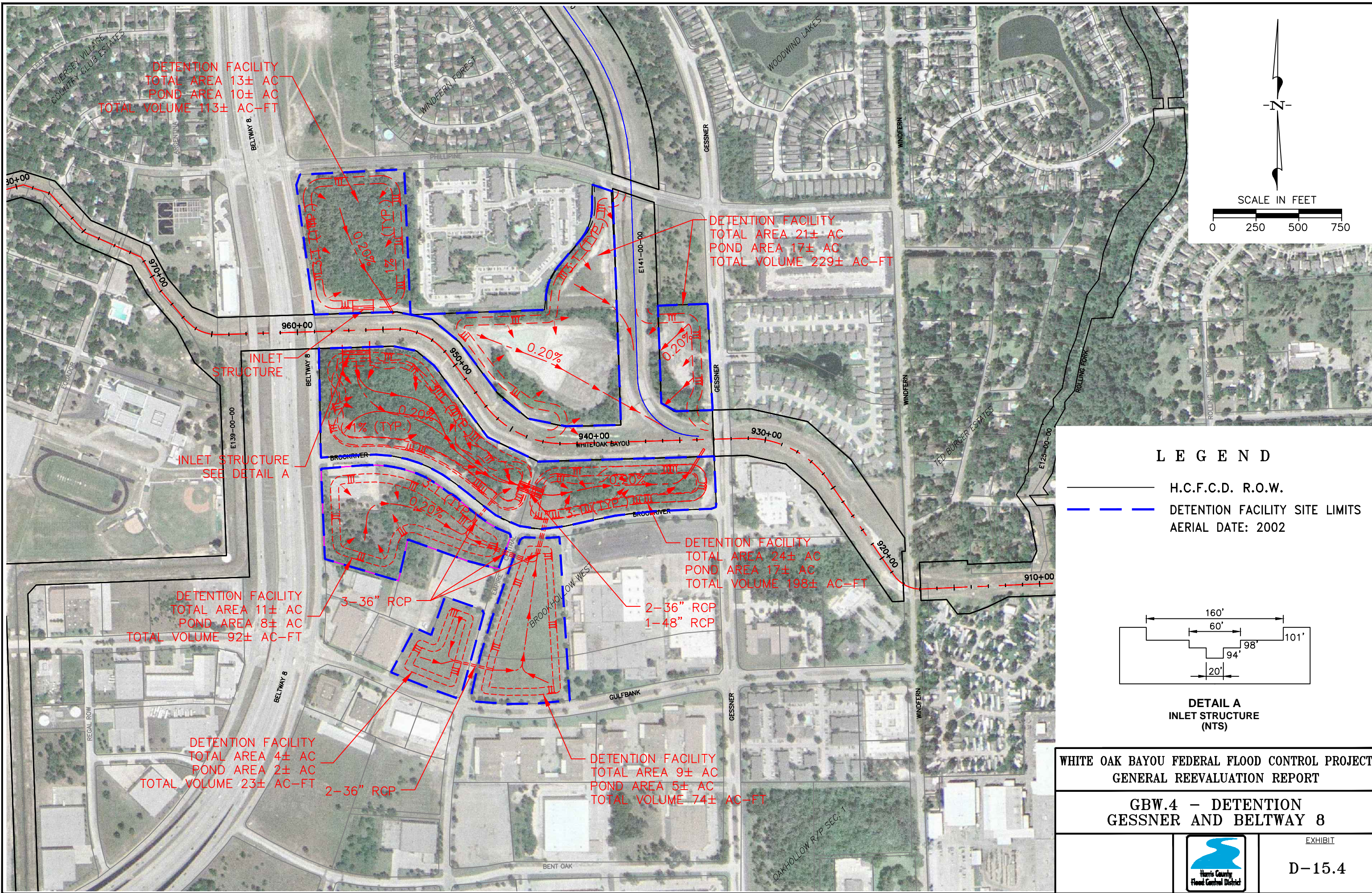
**GBW.3 - DETENTION AT
GESSNER AND BELTWAY 8**



EXHIBIT

D-15.3

FILE INFO: I:\Projects\0344\APPENDIX D\EXHIBITS\New Folder\0-15.4\F_D-15.4.dwg XREFS: Web-row, Bp03, Sx400; Alt-comp, WOBtblk, WOB-util, WOB-ch-3, Bp04, WOB-clb1; Layout_6 MODIFIED: Sep 14, 2012 12:22pm BY: sponozab PLOTTED: Sep 17, 2012 3:35pm PLOT SCALE: 1=1



DETECTION FACILITY
TOTAL AREA 13± AC
POND AREA 10± AC
TOTAL VOLUME 113± AC-FT

DETECTION FACILITY
TOTAL AREA 21± AC
POND AREA 17± AC
TOTAL VOLUME 229± AC-FT

DETECTION FACILITY
TOTAL AREA 11± AC
POND AREA 8± AC
TOTAL VOLUME 92± AC-FT

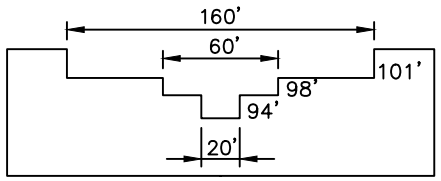
DETECTION FACILITY
TOTAL AREA 4± AC
POND AREA 2± AC
TOTAL VOLUME 23± AC-FT

DETECTION FACILITY
TOTAL AREA 9± AC
POND AREA 5± AC
TOTAL VOLUME 74± AC-FT

DETECTION FACILITY
TOTAL AREA 24± AC
POND AREA 17± AC
TOTAL VOLUME 198± AC-FT

LEGEND

- H.C.F.C.D. R.O.W.
- DETENTION FACILITY SITE LIMITS
- AERIAL DATE: 2002



DETAIL A
INLET STRUCTURE
(NTS)

WHITE OAK BAYOU FEDERAL FLOOD CONTROL PROJECT
GENERAL REEVALUATION REPORT

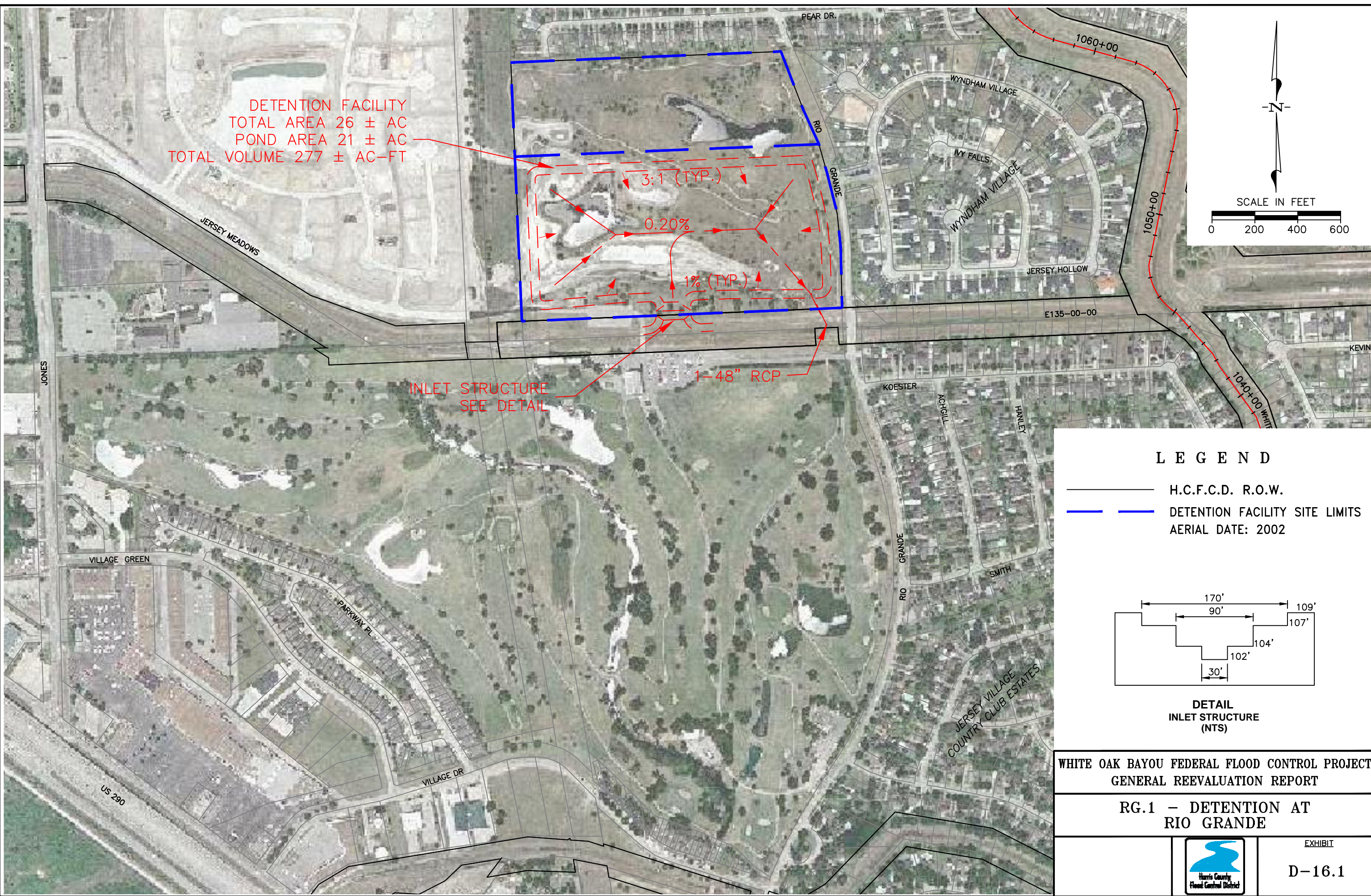
GBW.4 - DETENTION
GESSNER AND BELTWAY 8



EXHIBIT

D-15.4

FILE INFO: I:\Projects\0344\1607\APPENDIX D\EXHIBITS\New Folder\D-16.1\F_D-16.1.dwg XREFS: Web-row, Bc4; ALT-COMP; WOBTRBK; WOB-UTLS01; WOB-CM-3; WOB-CLB1; Sx400; LAYOUT_6 MODIFIED: Sep 14, 2012 12:46pm BY: sgonzalez PLOTTED: Sep 17, 2012 3:47pm PLOT SCALE: 1=1



DETENTION FACILITY
 TOTAL AREA 26 ± AC
 POND AREA 21 ± AC
 TOTAL VOLUME 277 ± AC-FT

INLET STRUCTURE
 SEE DETAIL

3:1 (TYP.)

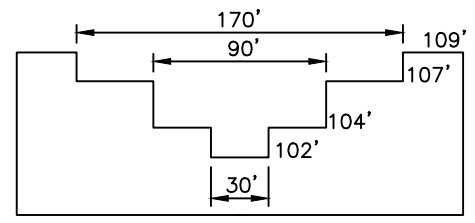
0.20%

1% (TYP.)

1-48" RCP

LEGEND

- H.C.F.C.D. R.O.W.
 - DETENTION FACILITY SITE LIMITS
- AERIAL DATE: 2002



DETAIL
 INLET STRUCTURE
 (NTS)

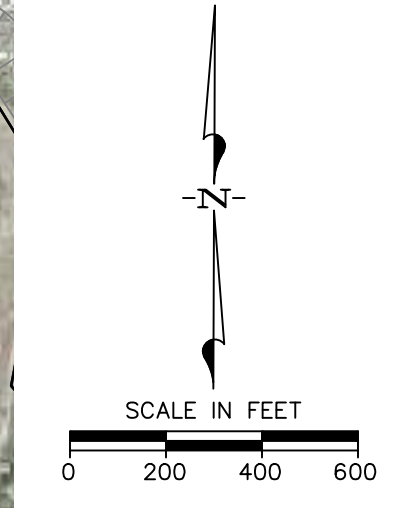
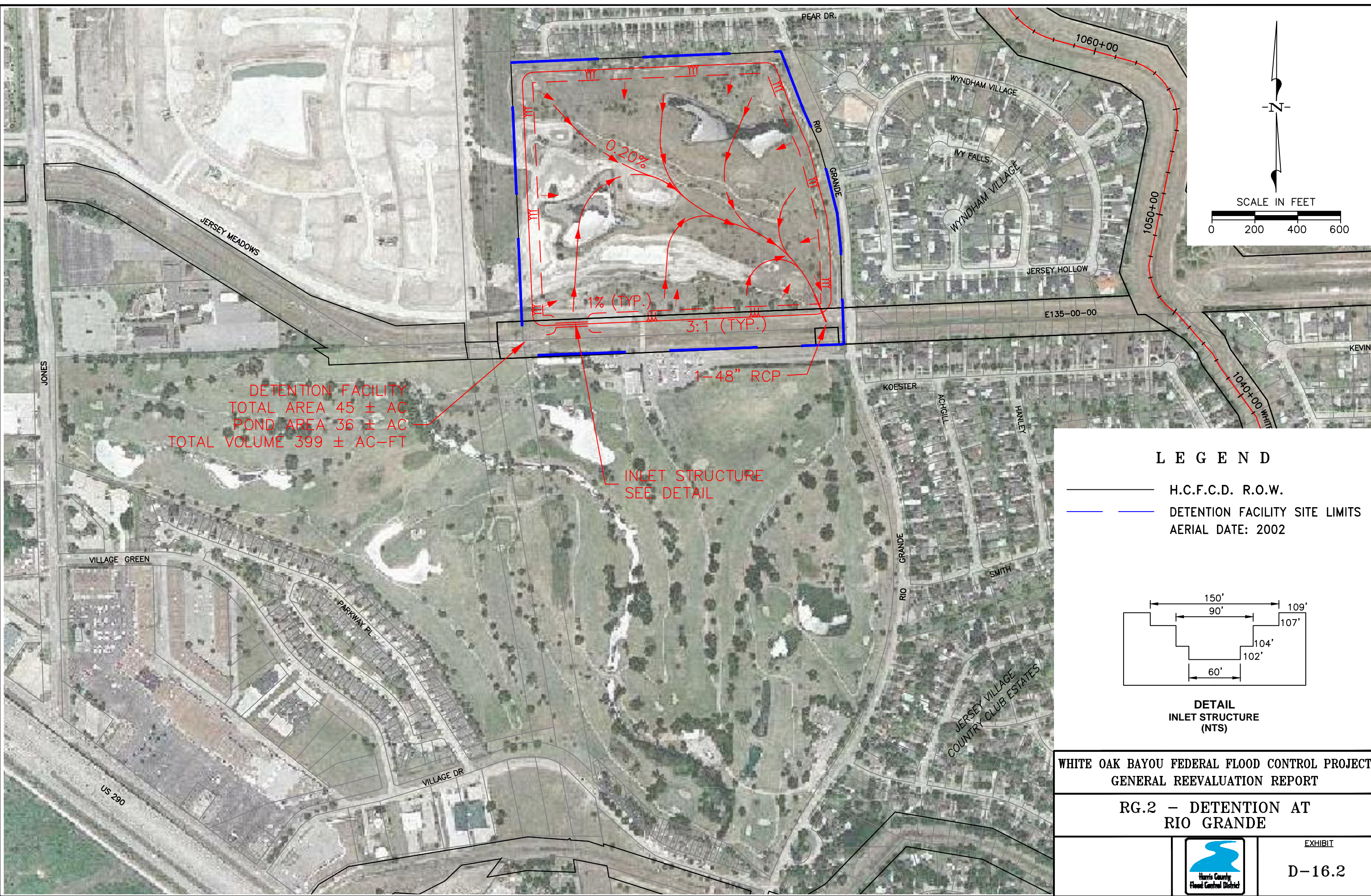
**WHITE OAK BAYOU FEDERAL FLOOD CONTROL PROJECT
 GENERAL REEVALUATION REPORT**

**RG.1 - DETENTION AT
 RIO GRANDE**



EXHIBIT
 D-16.1

FILE INFO: I:\Projects\0344\1607\APPENDIX D\EXHIBITS\New Folder\D-16.2\E_D-16.2.dwg XREFS: Web-row, Bc4; ALT-COMP; WOBTRBK; WOB-UTLS01; WOB-CM-3; WOB-CLB1; Sx400; LAYOUT_6 MODIFIED: Sep 14, 2012 12:46pm BY: sgonzalez PLOTTED: Sep 17, 2012 3:48pm PLOT SCALE: 1=1



DETENTION FACILITY
 TOTAL AREA 45 ± AC
 POND AREA 36 ± AC
 TOTAL VOLUME 399 ± AC-FT

INLET STRUCTURE
 SEE DETAIL

LEGEND

- H.C.F.C.D. R.O.W.
- DETENTION FACILITY SITE LIMITS

AERIAL DATE: 2002

**DETAIL
 INLET STRUCTURE
 (NTS)**

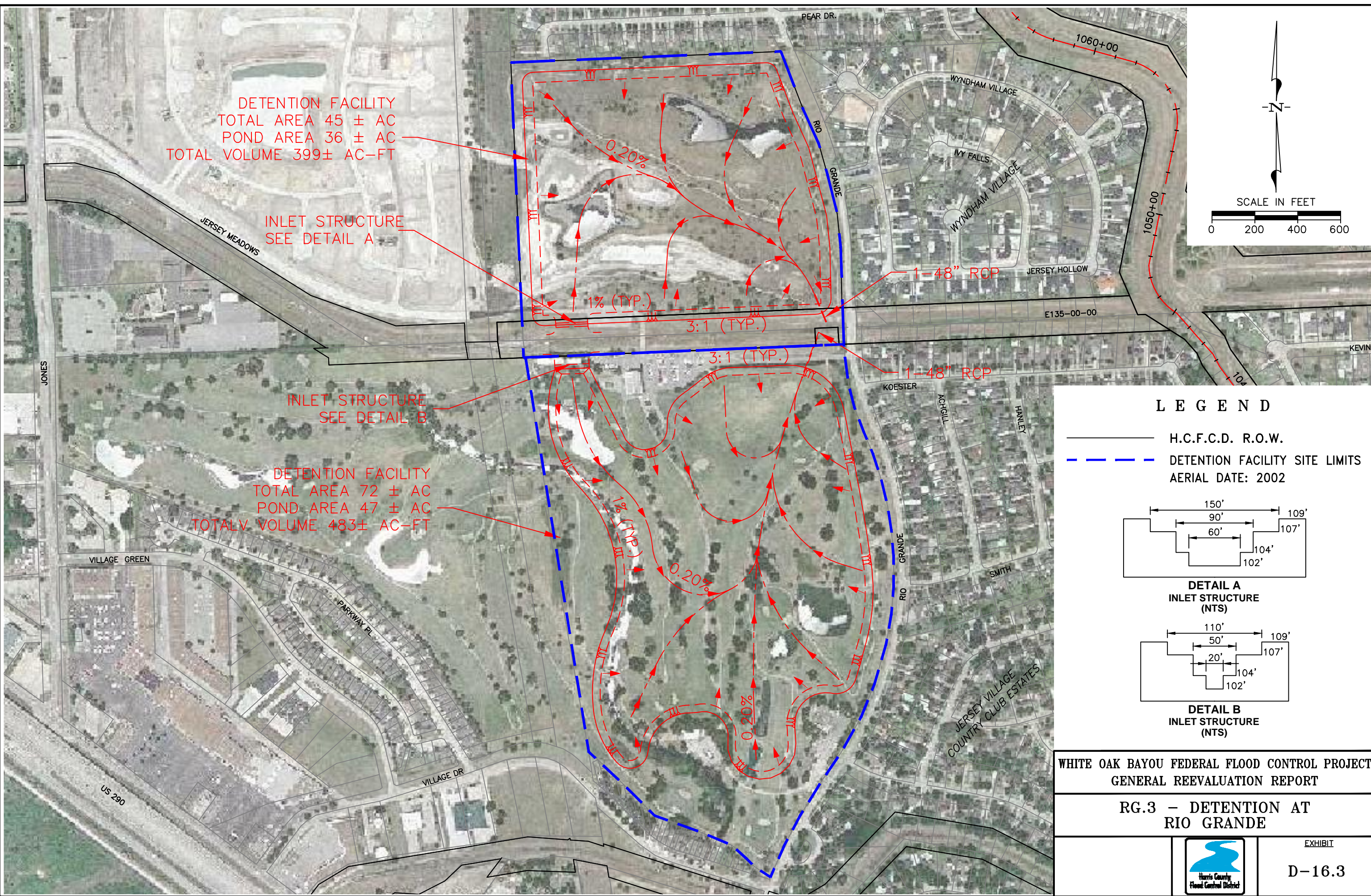
**WHITE OAK BAYOU FEDERAL FLOOD CONTROL PROJECT
 GENERAL REEVALUATION REPORT**

**RG.2 - DETENTION AT
 RIO GRANDE**



EXHIBIT
 D-16.2

FILE INFO: I:\Projects\0344\1607\APPENDIX D\EXHIBITS\New Folder\0-16.3\16.3\16.3.dwg XREFS: Web-row, Bc4; ALT-COMP; WOBTRBLK; WOB-UTLS01; WOB-CM-3; WOB-CLB1; Sx400; LAYOUT_6 MODIFIED: Sep 14, 2012 12:46pm BY: sgonzalez PLOTTED: Sep 17, 2012 3:49pm PLOT SCALE: 1=1

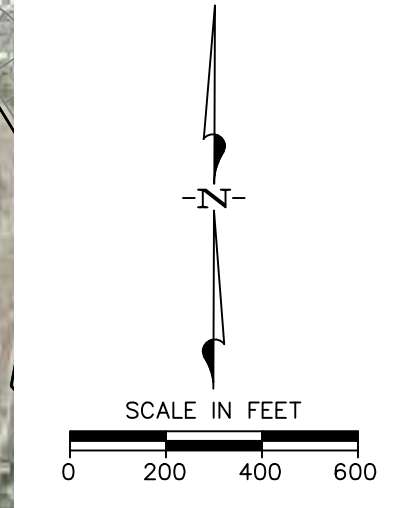


DETENTION FACILITY
TOTAL AREA 45 ± AC
POND AREA 36 ± AC
TOTAL VOLUME 399± AC-FT

INLET STRUCTURE
SEE DETAIL A

INLET STRUCTURE
SEE DETAIL B

DETENTION FACILITY
TOTAL AREA 72 ± AC
POND AREA 47 ± AC
TOTAL VOLUME 483± AC-FT



LEGEND

- H.C.F.C.D. R.O.W.
- - - - - DETENTION FACILITY SITE LIMITS
AERIAL DATE: 2002

DETAIL A
INLET STRUCTURE
(NTS)

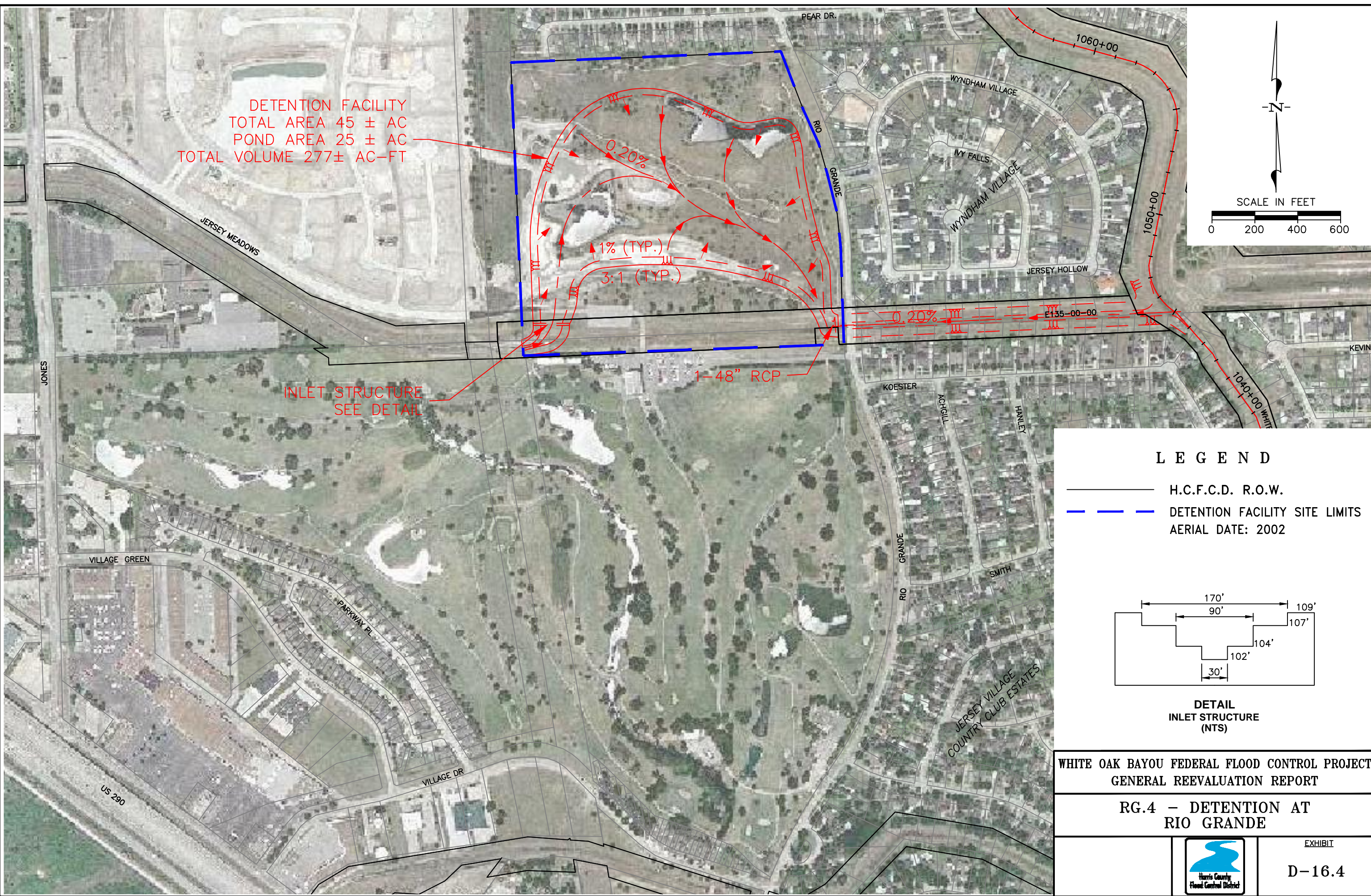
DETAIL B
INLET STRUCTURE
(NTS)

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

**RG.3 - DETENTION AT
RIO GRANDE**



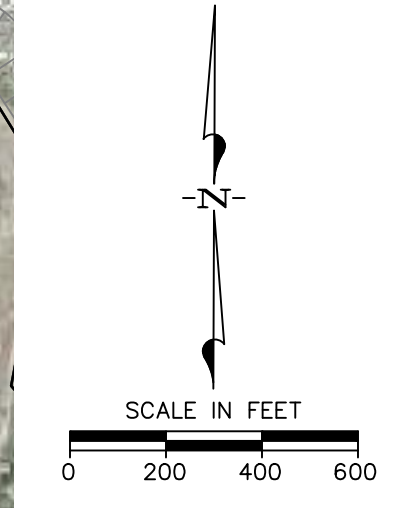
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DETENTION FACILITY
 TOTAL AREA 45 ± AC
 POND AREA 25 ± AC
 TOTAL VOLUME 277 ± AC-FT

INLET STRUCTURE
 SEE DETAIL

1-48" RCP



LEGEND

— H.C.F.C.D. R.O.W.
 - - - - - DETENTION FACILITY SITE LIMITS
 AERIAL DATE: 2002

**DETAIL
 INLET STRUCTURE
 (NTS)**

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

**RG.4 - DETENTION AT
 RIO GRANDE**



EXHIBIT
 D-16.4