

Appendix K
Application: Topographic and Boundary Surveys
Bayou Baton Rouge Drop Structure
Amite River and Tributaries, Comite River Diversion Project
East Baton Rouge Parish, Louisiana (New Orleans District)

K-1. Purpose and Background

The topographic and boundary surveys illustrated in this appendix were performed by New Orleans District in support of the Comite River Diversion Project. The surveys were conducted in 2004. Boundary surveys were performed on two tracts (201 and 317). These surveys were performed by task orders under an IDC AE contracts. CSI Chustz Surveying, Inc. of New Roads, LA performed the boundary surveys. NSRS reference control for the boundary surveys was established using the local CORS network. This appendix contains a sample metadata file for a boundary survey.

K-2. Scope of Work (Right-of Way Tracts)

Memorandum for ED-SS

Subject: Job No. 04-051 Request for Boundary Survey and Monumentation of Properties to be Acquired for the Comite River Diversion Project

1. Please survey the properties listed below and mark all corners using iron rods. Attached is a scope of work. Please contact all landowners prior to performing surveys.

<u>Tract No.</u>	<u>Owner Name</u>	<u>Contact</u>
201	***** , et ux	*****
317	***** , et ux	*****

2. Both tracts are located in Zachary Louisiana; tract 201 fronts Carney Road and Tract 317 fronts Old Baker Highway (Hwy 1209).

3. We have negotiated with both landowners for acquisition of these properties. The survey of the properties is one of the final steps to complete the acquisition process.

4. Should you encounter any problems with either landowner, please call our office immediately and ask to speak to *****.

5. Once the properties are surveyed, the contractor should revise plats and legal descriptions if necessary.

Comite River Diversion Project
Scope of Work for Survey Services

The work will consist of all services required to perform a complete property survey of tracts of land located within the right-of-way for the Comite River Diversion Project. The contractor shall perform all surveying services including furnishing of all personnel, transportation, equipment, and materials required in connection with this work. The services shall be provided under the professional supervision of a registered land surveyor, registered by the State of Louisiana. The survey is to be completed in

accordance with the technical provisions and special provisions contained herein as well as in conformance with the DOTD "Location and Survey Manual." Work will be ordered by individual purchase orders accompanied by right-of-way maps.

From recorded legal descriptions, the contractor shall survey and mark, with iron rods, the property lines and corners. The contractor will use the survey information to prepare individual parcel metes and bound descriptions with precise area calculations of ownerships as well as areas of acquisition. The survey shall also include the location and establishment of ownership of all utilities in the way of construction. The information should be provided both electronically as a CADD file and in reproducible form. The legal descriptions, plat maps, and the segment maps will continue to be prepared in the same manner as specified in the scope of work included in Job No. 02-062. However, as a new requirement the plat map will be stamped with the surveyor's seal and initialed by him.

K-3. Scope of Work (Topographic Surveys)

Memorandum for ED-SS

1. Request that surveys be performed for the subject project.
2. Enclosed for your use in the Survey Request form, Scope of Work, and copies of Right of Entry permits.
3. Please prepare an estimate of the time and costs associated with the work outlined in the attached Scope of Work, including the estimated start and completion dates for all work.
4. Prior to initiating any survey work at the site, contact Karen Borne (RE-F).
5. Prior to initiating any survey work at the site and preferably during the week of 25 May 2004, we would like to schedule a meeting to discuss the attached Scope of Work, to discuss the required coordination with Real Estate (including procedures for contacting property owners and dealing with hostile property owners), and to answer any questions you may have.
6. The ED-T point of contact for this work is Chris Dunn, x1799.

Survey Scope of Work--Comite River Diversion

1. The features of work for this project include:
 - Bayou Baton Rouge Drop Structure
 - Adjacent T-Walls
 - A Short Segment of the Channel
 - Bayou Baton Rouge Approach Channel
 - New Carney Road Bridge/Crossing of Bayou Baton Rouge
 - Guide Levees and Disposal Embankments
 - Bypass Aqueduct
2. Survey Work Required

The surveyors will follow standard surveying practices to accomplish the following tasks.

- Locating enough PIs along the Project baseline, to re-establish the baseline in the vicinity of this project. (Estimate 3 PIs are required--see attachment).
- Establishing and staking the Comite River Diversion Channel centerline along the full length of the area as shown on the enclosed plan.
- Taking sufficient detailed topographic plane table surveys to readily prepare topographic maps of the proposed Comite River Diversion Channel, the proposed Bayou Baton Rouge Approach Channel, existing Bayou Baton Rouge, existing Carney Road in the vicinity of the structure, and all surrounding areas that may serve as locations for guide levees, disposal embankments, and/or drainage ditches.
- Cross-sections taken should extend along Bayou Baton Rouge from the southern right-of-entry limit to just north of the intersection of Bayou Baton Rouge and its tributary as shown in the enclosed plan. Cross-sections should be taken at 100-ft intervals; except north of the proposed structure, the cross-sections should be taken at 200 ft intervals as noted on the enclosed plan. These sections should extend from Bayou Baton Rouge to the adjacent right-of entry limits. Shots should be taken every 20 ft plus at all changes in grade. In the drop structure limits, every other section shall extend to the east right-of-way.
- Possible clearing of shrubbery and brush in heavily wooded areas, sufficient to allow completion of the work. The surveyors will minimize the cutting of small trees and the clearing of brush to obtain line-of-sight to take cross-sections and will not disturb any fences, pipelines, or other improvements within the area.
- Identification and location of existing structures and utilities, including the limits of all cemeteries, existing residences, bridges, etc.
- Perform topographic surveys and take cross-sections along the future realigned Carney Road Corridor.
- Cross-sections taken should extend along the future Carney Road Corridor at 150-ft width as shown on the enclosed plan. In the area of Hwy 964, cross-sections should be taken radially perpendicular to the Hwy and stop 25 ft before the private driveway as shown on the enclosed plan. Cross-sections should be taken at 50-ft intervals. Shots should be taken every 20 ft plus all changes in grade.
- Place hubs or approved similar marks (as shown on attached plans):
 - On both sides of Hwy 964 at the intersection of the diversion channel centerline.
 - Intersection of diversion channel centerline and drop structure centerline.
 - At the limits of the drop structure on the diversion channel centerline.
 - At the PI of the diversion channel centerline.
 - On both sides of existing Carney Road at the intersection of the diversion channel centerline.
 - 4 hubs placed equidistant between the structure limits and Hwy 964.
 - 3 hubs placed equidistant between the structure limits and Carney Road.
- Locate existing Carney Road azimuths and widths along Carney Road between 1,000 ft northwest and 500 ft southeast of the intersection with the diversion channel.

3. The attached maps illustrate all affected areas.

4. Borings shown on the attached maps will be taken by others.

5 Point of contact is Chris Dunn, x1799.

K-4. GPS Control Survey Report (CSI Chustz Surveying, Inc.)

Two point pairs were set at each Tract--201A-201B and 317A-317B. These points were positioned by 2 hour static GPS observations from a single CORS site in New Orleans (ILSU). GPS baseline data were reduced using Trimble TGO software, and a network adjustment performed in TGO. The adjusted NAD 83 SPCS coordinates of point 317A was checked using an OPUS solution that utilized three CORS sites. The position difference was less than 0.04 ft.

**Comite River Diversion
GPS Control**

Project Summary

On June 24, 2004 Chustz Surveying, Inc. (CSI) received a Request for Proposal from the New Orleans District Corps of Engineers to perform Boundary Surveys for the Comite River Diversion Canal Project. The Survey Request required that boundary surveys be conducted on tracts 201 and 317. To facilitate this survey it was additionally requested that CSI perform a static GPS survey to establish horizontal control on the project. The control would be referenced to the Louisiana South State Plane Coordinate System.

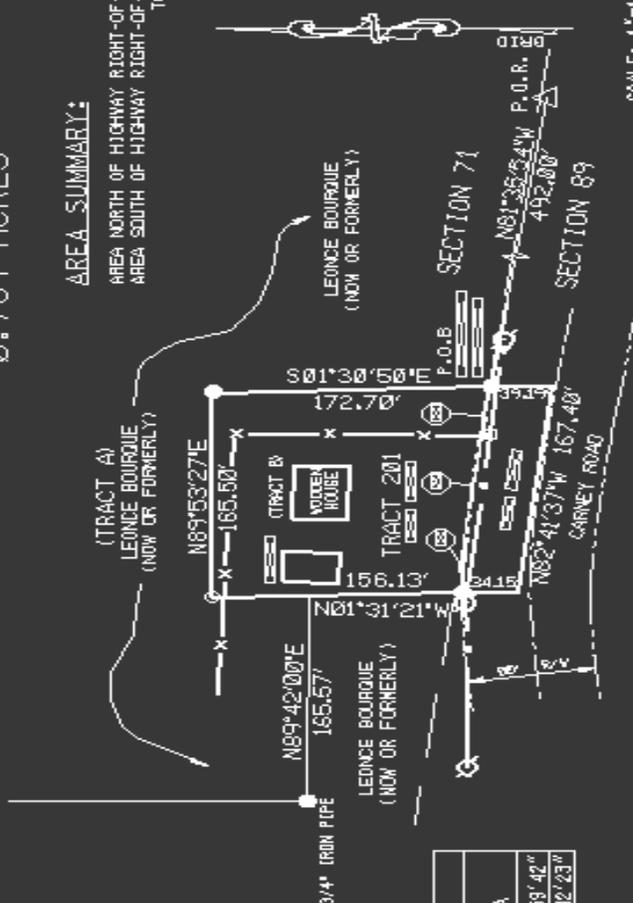
With this project requiring horizontal control only, it was decided to establish one set of azimuth pairs with a minimum of two hours occupation time and then utilizing the CORS station ILSU located at Baton Rouge bring the horizontal into the project. Shorter one hour sessions would then be collected linking all four local controls. Two azimuth pairs were set at each tract and labeled; 201A, 210B, 317A and 317B. The two longer sessions were collected on 317A and 317B and the remaining sessions were collected in a leap frog fashion to close the figure to allow for loop closure checks. The data collected on 317A was uploaded to OPUS for a QC check.

The project work effort was estimated and negotiated with NOD resulting in a Delivery Order with Notice to Proceed issued on July 1, 2004. New Orleans District brass caps with rebar were set and described and the GPS data was collected.

EAST BATON ROUGE PARISH, LOUISIANA
SECTION 71 & 89, T 5 S - R 1 W, G.L.D.
0.764 ACRES

REFERENCES:
1) MAP SHOWING SURVEY AND RESUBDIVISION OF A 121.4 ACRE TRACT, FORMERLY THE MRS. CELESTIE CARNEY DEES PROPERTY, INTO TRACT A AND TRACT B, LOCATED IN SECTION 71, T-5-S, R-1-W, S.L.D., EAST BATON ROUGE PARISH, LOUISIANA FOR LEONCE C. BOURQUIE, RECORDED AS ORIG. 671, BUNDLE 11194, CLERK OF COURT, EAST BATON ROUGE PARISH.
2) ACT OF DONATION FROM LEONCE CHARLES BOURQUIE AND BETTY ELEAN BOURQUIE TO MICHAEL PAUL HEDGES AND MICHELLE BOURQUIE, HEDGES RECORDED AS ORIG. 382, BUNDLE 11261, CLERK OF COURT, EAST BATON ROUGE PARISH.

AREA SUMMARY:
AREA NORTH OF HIGHWAY RIGHT-OF-WAY - 0.619 ACRES
AREA SOUTH OF HIGHWAY RIGHT-OF-WAY - 0.145 ACRES
TOTAL - 0.764 ACRES



GENERAL NOTES:
HORIZONTAL DATUM: NAD-1983
PROJECTION: LAMBERT, LOUISIANA SOUTH ZONE
UNITS: U.S. SURVEY FEET
BEARINGS ARE BASED ON GPS MEASUREMENTS.

THIS SURVEY IS IN ACCORDANCE WITH THE APPLICABLE STANDARDS OF PRACTICE AS STIPULATED IN TITLE 46, CHAPTER 29 OF THE PROFESSIONAL AND OCCUPATIONAL STANDARDS, PART LXJ FOR PROFESSIONAL ENGINEERS AND LAND SURVEYORS FOR A CLASS "C" SURVEY.

CURVE TABLE

NUMBER	RADIUS	LENGTH	CHORD BEARING	CHORD LENGTH	DELTA
C-1	1417.24'	123.55'	N64°01'40\"W	123.51'	04°53'42\"
C-2	647.44'	19.28'	N89°13'35\"W	19.28'	01°42'23\"

LINE TABLE

NUMBER	DIRECTION	DISTANCE
L-1	N81°35'54\"W	24.07'

CERTIFICATION:

I CERTIFY THAT IN JULY 2004 CHUSTZ SURVEYING, INC. MADE A GROUND SURVEY OF THE AREA SHOWN HEREON AND THAT THIS PLAT IS IN ACCORDANCE WITH THE DATA OF SAID SURVEY.

JAMES H. CHUSTZ, P.E.
REGISTERED LAND SURVEYOR

Window Area

LEGEND:

- TRACT BOUNDARY
- FENCE
- OVERHEAD ELECTRIC LINE
- CENTERLINE OF CARNEY ROAD
- SECTION LINE
- TELEPHONE PEDESTAL
- WATER METER
- POWER POLE
- 1/2\" IRON ROD SET
- 1/2\" IRON PIPE FOUND OR AS SHOWN
- 4\" X 4\" CONCRETE LOH MONUMENT

SCALE: 1\"=100'



BY CHUSTZ SURVEYING, INC. KEY ROAD, LOUISIANA
DEPARTMENT OF THE ARMY
U.S. ARMY ENGINEERS DISTRICT
NEW ORLEANS CORPS OF ENGINEERS
LOWER MISSISSIPPI VALLEY DIVISION

MICHAEL HEDGES, ET UX
TRACT NO. 201
DATE: 13 JULY 04 REV.

K-5. OPUS Solution Check (Point 317A)

The adjusted coordinates of Point 317A (N=774 648.581, E=3333 973.216) were compared with an independent OPUS solution that was based on 3 CORS base stations shown in the solution below. The OPUS solution (N=774 648.569, E=3333 973.178) checked within 0.04 ft of the GPS adjustment.

```

                                OPUS solution 317A1810.04o 000190296.txt
From: opus@ngs.noaa.gov
Sent: Friday, July 16, 2004 11:23 AM
To: lhines@chustz.com
Subject: OPUS solution : 317A1810.04o 000190296

FILE: 317A1810.04o 000190296

                                NGS OPUS SOLUTION REPORT
                                =====

USER: lhines@chustz.com                DATE: July 16, 2004
RINEX FILE: 317a181p.04o              TIME: 16:22:53 UTC

SOFTWARE: page5 0310.28 master3.p1    START: 2004/06/29 15:49:00
EPHEMERIS: igr12772.eph [rapid]       STOP: 2004/06/29 18:05:00
NAV FILE: brdc1810.04n                OBS USED: 4792 / 5310 : 90%
ANT NAME: TRM41249.00                 # FIXED AMB: 34 / 38 : 89%
ARP HEIGHT: 2.0                       OVERALL RMS: 0.028(m)

REF FRAME: NAD83(CORS96) (EPOCH:2002.0000)    ITRF00 (EPOCH:2004.4937)
X: -111623.007(m) 0.035(m) -111623.651(m) 0.035(m)
Y: -5491868.290(m) 0.077(m) -5491866.807(m) 0.077(m)
Z: 3230661.001(m) 0.048(m) 3230660.820(m) 0.048(m)

LAT: 30 37 47.94788 0.010(m) 30 37 47.96714 0.010(m)
E LON: 268 50 8.21553 0.033(m) 268 50 8.19022 0.033(m)
W LON: 91 9 51.78447 0.033(m) 91 9 51.80978 0.033(m)
EL HGT: -3.352(m) 0.091(m) -4.709(m) 0.091(m)
ORTHO HGT: 23.909(m) 0.094(m) [Geoid03 NAVD88]

PLANE COORDINATES North(Y) East(X) Convergence (deg) Point Scale
UTM(Zone 15): 3390032.330(m) 675926.530(m) 0.93547156 0.99998181
SPC(1702 LA 5): 236113.356(m) 1016197.057(m) 0.08447652 0.99998586

US NATIONAL GRID DESIGNATOR: 15RXP7592790032(NAD 83)

                                BASE STATIONS USED
PID DESIGNATION LATITUDE LONGITUDE DISTANCE(m)
AJ7830 KJUN KJUN CORS ARP N301316.947 w0920242.388 95973.8
DF5754 ILSU LOUISIANA STATE U CORS ARP N302426.709 w0911048.915 24720.9
AJ7833 HAMM HAMMOND CORS ARP N303047.051 w0902803.428 68084.4

                                NEAREST NGS PUBLISHED CONTROL POINT
BJ0490 M 216 N303739. w0910938. 459.4

This position was computed without any knowledge by the National Geodetic Survey
regarding the equipment or field operating procedures used.
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K-6. Tract 201 CSI "H-Record" Submittals to New Orleans District

The following submittal for Tract 201 corresponds to the New Orleans District criteria outlined in Chapter 12.

#H01 201_MISC.EM
#H02 JULY,13 2004
#H03 3
#H04 NAD83
#H05 04051
#H06 USFEET
#H07 1702
#H08 ZACHARY, LA.
#H09 CHUSTZ SURVEYING INC.
#H10 040031
#H11 1-16
#H12 1.0
#H20 COMITE RIVER DIVERSION PROJECT BOUNDARY SURVEYS (TRACT 201)
#H30 W912P8-04-D-0001
#H31 Task Order 0009
#H32 GPS POINTS 201A AND 201B WERE SET BY CHUSTZ SURVEYING, INC.
#H33 ON JUNE 29 2004. THERE POINTS WERE THEN USED AS CONTROL
#H34 POINTS FOR THE SURVEYS. REFER TO GPS SUMMARY UNDER FOLDER
#H35 ED-SS-P SURVEY CONTROL, FILE NAME GPSREPORT.PDF. THE GPS
#H36 POINTS ARE ALSO DESCRIBED IN BK. 040031 PGS. 1-6.
;
;
;-----VERTICAL CONTROL INFORMATION-----
;
; NONE
;
;
;
;-----TEMPORARY BENCK MARKS-----
;
; NONE
;
;
;-----FIELD PERSONNEL-----
;
#C01 MITCH LANGSTON
#C02 LONNIE DUPONT
#C03 KIM OUBRE
;
;-----EQUIPMENT-----
#E01 TOTAL STATION
#E02 LEICA T-1010
#E03 370556
;
#E01 LEVEL
#E02 TOPCON ATG3
#E03 5F6344
;
;
;-----WEATHER-----
;
;
; NOTE: WEATHER RECORDS ARE IN THE FIELD BOOKS
;
;
;
;
#B00 NONE

EM 1110-1-1005
1 Jan 07

;
#M01 MISCELLANEOUS SHOTS
;

7,772515.40,3322776.24,0.00,201A	1100,771672.58,3321842.99,0.00,BLD	1125,771537.60,3321665.61,0.00,CLR
8,771527.26,3322454.34,0.00,201B	1101,771673.30,3321818.77,0.00,BLD	1126,771523.43,3321620.86,0.00,CLR
9,771581.69,3321671.37,0.00,FP	1102,771708.69,3321820.19,0.00,BLD	1127,771514.49,3321593.65,0.00,CLR
1078,771518.15,3322450.80,0.00,FC	1103,771680.48,3321802.65,0.00,BLD	1128,771501.21,3321550.71,0.00,CLR
1079,771514.87,3322441.33,0.00,FC	1104,771680.19,3321796.09,0.00,BLD	1129,771489.52,3321502.36,0.00,CLR
1080,771550.34,3322176.59,0.00,FL	1105,771691.01,3321795.58,0.00,BLD	1130,771568.75,3321626.23,0.00,WM
1081,771566.80,3322061.93,0.00,FL	1106,771599.59,3321810.63,0.00,WM	1131,771557.43,3321634.40,0.00,RCP
1082,771584.73,3321937.87,0.00,FC	1107,771581.59,3321860.24,0.00,RCP	1132,771565.07,3321665.44,0.00,RCP
1083,771664.96,3321939.51,0.00,FL	1108,771578.14,3321892.14,0.00,RCP	1133,771509.95,3321732.99,0.00,HYD
1084,771738.60,3321939.58,0.00,FC	1109,771570.64,3322015.31,0.00,PPL	1134,771507.35,3321732.80,0.00,WV
1085,771742.40,3321857.21,0.00,FL	1110,771594.25,3321803.27,0.00,PPL	1135,771482.66,3321639.53,0.00,WM
1086,771744.81,3321797.15,0.00,FL	1111,771593.69,3321670.68,0.00,PPL	1136,771481.95,3321618.74,0.00,ROW
1087,771748.44,3321729.38,0.00,FC	1112,771533.51,3321527.79,0.00,PPL	1137,771510.27,3321887.59,0.00,ROW
1088,771752.10,3321972.90,0.00,IR	1113,771532.29,3321526.27,0.00,TEP	
1089,771579.46,3321977.46,0.00,IP	1114,771577.37,3321673.43,0.00,TEP	
1090,771563.99,3322069.83,0.00,PV	1115,771580.11,3321938.58,0.00,TEP	
1091,771565.54,3322057.66,0.00,PV	1116,771529.22,3322310.84,0.00,TEP	
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1095,771573.49,3321643.46,0.00,IP	1120,771541.02,3321962.52,0.00,CLR	
1096,771693.09,3321643.49,0.00,IP	1121,771546.40,3321922.56,0.00,CLR	
1097,771692.22,3321809.06,0.00,IP	1122,771553.68,3321860.50,0.00,CLR	
1098,771595.71,3321811.55,0.00,IP	1123,771555.83,3321809.42,0.00,CLR	
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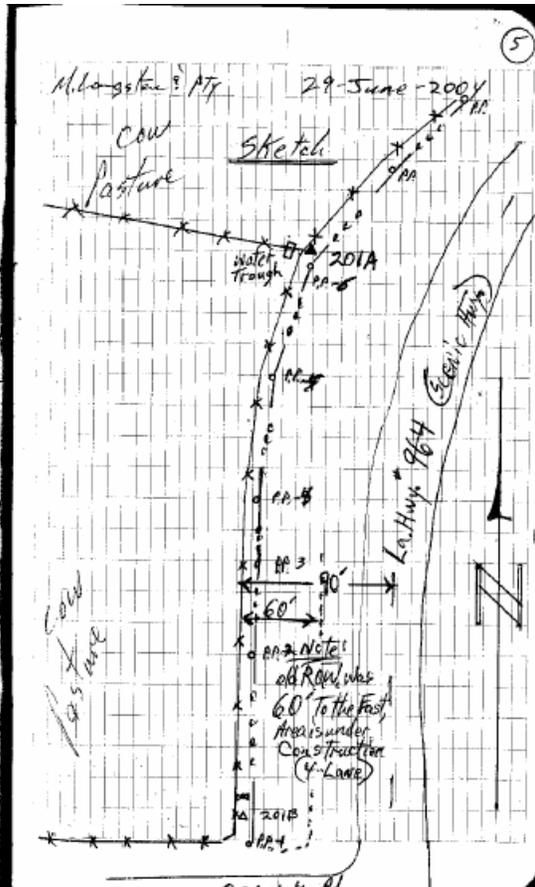
K-7. Tract 201 Control Description

The following figure shows a field description and sketch made of a newly set mark at Tract 201--“201A WEST”.

Point #7
 C.O.E. No. = 04-051
 Comite River Diversion Project
 Boundary Surveys
 201A 04051

Point Description
 To reach station from the Municipal Buildings of Zachary La. (East Baton Rouge Parish) @ Florida St. and Main. Then we West on La Hwy #64 (Main St.) for 233 ft. To the Intersection of La Hwy #964 (Scenic Hwy) #64. Thence Left on South on La Hwy #964 (Scenic Hwy) for 2.2 miles, to the Station on the Right.
 Point is a standard C.O.E. Cap: Rod (Iron) 2.5", set 0.5' below ground, stamped: 201A 04051 in the Year.
 Point is 3' East of a Barbed Wire fence @ Cow Pasture, 10' N-N-E of a Fence corner that divides Pastures, 4' North of a Water Meter, 8' North of a White orange (3" diam. PVC) Fiber optic Cable Marker, 12' N-N-W of the 6th Power Pole North of Corridor and 4'-87" West of E of La Hwy #964 (Scenic Hwy).

Section - NAD-83 (Hand Held)
 Township - Lat - N - 30° 37' 27.1"
 Range - Long - W - 91° 11' 59.9"



K-8. Description of Tract 201

**COMITE RIVER DIVERSION PROJECT
AMITE RIVER AND TRIBUTARIES
NEW ORLEANS CORPS OF ENGINEERS**

TRACT: 201
OWNER: MICHAEL HEDGES, et ux
ACRES: 0.764

A certain tract of land designated as TRACT 201, together with any and all buildings, improvements and appurtenances thereon, located in Sections 71 & 89, T 5 S – R 1 W, Greensburg Land District, East Baton Rouge Parish, Louisiana, and being a portion of a Right-of-Way to be acquired to accommodate construction of Comite River Diversion Project and being more particularly described as follows:

For a POINT OF REFERENCE (P.O.R.), commence at a Louisiana Department of Highway concrete monument found, located along the North Right-of-Way of Carney Road; thence proceed North 81 degrees 35 minutes 54" West a distance of 492.00 feet to a 1/2 inch iron pipe found, being the POINT OF BEGINNING (P.O.B.)

From said POINT OF BEGINNING, proceed South 01 degrees 30 minutes 50 seconds East a distance of 39.19 feet to a point; thence proceed North 82 degrees 41 minutes 37 seconds West a distance of 167.40 feet to a point; thence proceed North 01 degrees 31 minutes 21 seconds West a distance of 34.15 feet to a 1/2 inch iron pipe found; thence proceed North 01 degrees 31 minutes 21 seconds West a distance of 156.13 feet to a 1/2 inch iron rod set; thence proceed North 89 degrees 53 minutes 27 seconds East a distance of 165.50 feet to a 1/2 inch iron pipe found; thence proceed South 01 degrees 30 minutes 50 seconds East a distance of 172.70 feet to a 1/2 inch iron pipe found which is the POINT OF BEGINNING.

The herein tract of land described as TRACT 201 contains 0.764 acres including the Right-of-Way along Carney Road and is bounded on the North, East and West by Leonce Bourque, now or formerly, and on the South by the centerline of Carney Road.

It is the intention of this description to include all of the land acquired by MICHAEL PAUL HEDGES and MICHELLE BOURQUE HEDGES from LEONCE CHARLES BOURQUE and BETTY EGAN BOURQUE by an Act of Donation dated October 18, 2001 and recorded as Original 392 Bundle 11281 in the records of East Baton Rouge Parish, Louisiana.

K-9. Tract 201 Metadata File

Identification_Information:

Citation:

Citation_Information:

Originator: New Orleans District, U.S. Army Corps of Engineers

Publication_Date: JULY,13 2004

Title: COMITE RIVER DIVERSION PROJECT BOUNDARY SURVEYS

(TRACT 201)

Publication_Information

Publication_Place: New Orleans, LA

Publisher: New Orleans District, U.S. Army Corps of Engineers

Online_Linkage:

<NONE>

Online_Linkage:

<NONE>

Description:

Abstract:

Surveys are conducted in support of the Corps of Engineers Civil Works programs such as Flood Control, Navigation, and Hurricane Protection projects.

Purpose:

The purpose of the surveys are to provide a current site model, and to be used as an engineering and planning tool for future Flood Control, Navigation, and Hurricane Protection projects.

Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date: JULY,13 2004

Currentness_Reference: publication date

Status:

Progress: Complete

Maintenance_and_Update_Frequency: Daily.

Spatial_Domain:

Bounding_Coordinates:

West_Bounding_Coordinate: 3333888.22

East_Bounding_Coordinate: 3334309.85

North_Bounding_Coordinate: 774648.55

South_Bounding_Coordinate: 772539.88

Keywords:

Theme:

Theme_Keyword_Thesaurus: none

Theme_Keyword: Boundaries

Theme_Keyword: Hydrography

Theme_Keyword: Topography

Place:

Place_Keyword_Thesaurus: none

Place_Keyword: New Orleans

Place_Keyword: Louisiana

Place_Keyword: ZACHARY, LA.
Temporal:
Temporal_Keyword_Thesaurus: None
Temporal_Keyword: JULY,13 2004

Access_Constraints:
None.

Use_Constraints:
This survey information is accurate as of the date of publication. Topographic-Hydrographic survey data is subject to change rapidly due to several factors including but not limited to dredging activity and natural shoaling scouring processes. The U. S. Army Corps of Engineers accepts no responsibility for changes in the conditions which develop after the date of publication. This information is intended for the internal use of the U. S. Army Corps of Engineers and it is being provided for external use as a public service. This agency accepts no responsibility for errors or omissions contained in this data. The accuracy of this data is therefore not guaranteed, and prudent surveyors or mariners should not rely solely upon it.

Point_of_Contact:

Contact_Information:

Contact_Person_Primary:

Contact_Person: Mark W. Huber

Contact_Address:

Address_Type: mailing address

Address:

U.S. Army Corps of Engineers

New Orleans District

Survey Section

CEMVN-ED-SS

P.O. Box 60267

City: New Orleans

State_or_Province: LA

Postal_Code: 70160-0267

Country: USA

Contact_Voice_Telephone: (504) 862-1852

Contact_Facsimile_Telephone: (504) 862-1850

Contact_Electronic_Mail_Address: mark.w.huber@MVN02.usace.army.mil

Data_Quality_Information:

Logical_Consistency_Report:

The quality of data collected is consistent between dates and vessels collection information.

Completeness_Report:

The listed surveys represent complete collection for this date.

Positional_Accuracy:

Horizontal_Positional_Accuracy:

Horizontal_Positional_Accuracy_Report:

Hydrographic Survey Data collected via DGPS and

XY accuracy is +/- 3 feet.
Topographic Data is Third Order Class II

Lineage:

Source_Information

Source_Citation:

Citation_Information:

Originator: New Orleans District.

Publication_Date: Unpublished material

Title: No title, data not formally published,
hard copy is avail

Geospatial_Data_Presentation_Form: ASCII File

Publication_Information:

Publication_Place: n/a

Publisher: n/a

Other_Citation_Details: n/a

Type_of_Source_Media: paper

Source_Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date: JULY,13 2004

Source_Currentness_Reference: ground condition

Source_Citation_Abbreviation:

Not avail.

Source_Contribution:

Not avail.

Process_Step:

Process_Description:

Hydrosurveys are collected via DGPS. Topographic
surveys are typically collected with total stations.

Source_Used_Citation_Abbreviation: N/A

Source_Used_Citation_Abbreviation: N/A

Process_Date: JULY,13 2004

Source_Produced_Citation_Abbreviation:

N/A

Process_Contact:

Contact_Information:

Contact_Person_Primary:

Contact_Person: Ronald W. King

Contact_Address:

Address_Type: mailing address

Address:

U.S. Army Corps of Engineers

New Orleans District

Survey Section

CEMVN-ED-SS

P.O. Box 60267

City: New Orleans

State_or_Province: LA

Postal_Code: 70160-0267

Country: USA

Contact_Voice_Telephone: (504) 862-1853

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1 Jan 06

Contact_Facsimile_Telephone: (504) 862-1850
Contact_Electronic_Mail_Address:

ronald.w.king@MVN02.usace.army.mil

Spatial_Data_Organization_Information:

Indirect_Spatial_Reference:

Filename: 317_MISC.em

This survey data is presented in an ASCII XYZ coordinate file.

Direct_Spatial_Reference_Method: Vector

Spatial_Reference_Information:

Horizontal_Coordinate_System_Definition:

State Plane:

Zone: 1702

Unit_of_Measure: USFEET

Entity_and_Attribute_Information:

Overview_Description:

Entity_and_Attribute_Overview:

The data attributes consist of soundings, depth curves (soundings), and obstructions.

Entity_and_Attribute_Detail_Citation:

not req'd.

Distribution_Information:

Distributor:

Contact_Information:

Contact_Person_Primary:

Contact_Person: Ronald W. King

Contact_Address:

Address_Type: mailing address

Address:

U.S. Army Corps of Engineers

New Orleans District

Survey Section

CEMVN-ED-SS

P.O. Box 60267

City: New Orleans

State_or_Province: LA

Postal_Code: 70160-0267

Country: USA

Contact_Voice_Telephone: (504) 862-1853

Contact_Facsimile_Telephone: (504) 862-1850

Contact_Electronic_Mail_Address: ronald.w.king@MVN02.usace.army.mil

Resource_Description: not applicable

Distribution_Liability:

The Government furnishes this data and the recipient accepts and uses it with the express understanding that the United States Government makes no warranties, expressed, or implied, concerning the accuracy,

completeness, reliability, usability, or suitability for any particular purpose of the information and data furnished. The United States shall be under no liability whatsoever to any person by reason of any use made thereof. This data belongs to the Government. Therefore, the recipient further agrees not to represent this data to anyone as other than Government provided data. The recipient may not transfer this data to others without also transferring this disclaimer.

Standard_Order_Process:

Digital_Form:

Digital_Transfer_Information:

Format_Name: EM

Format_Information_Content: ASCII XYZ Format

Transfer_Size: 0.500 megabytes

Digital_Transfer_Option:

Online_Option:

Computer_Contact_Information:

Network_Address:

Network_Resource_Name:

<NONE>

Online_Computer_and_Operating_System:

Windows NT Server running Netscape WWW Server

Offline_Option:

Offline_Media: 3.5 inch diskette

Recording_Format: DOS for diskette

Fees: Labor and media fees will be charged for requests for off-line data

Metadata_Reference_Information:

Metadata_Date: JULY,13 2004

Metadata_Contact:

Contact_Information:

Contact_Person_Primary:

Contact_Person: Mark W. Huber

Contact_Address:

Address_Type: mailing address

Address:

U.S. Army Corps of Engineers

New Orleans District

Survey Section

CEMVN-ED-SS

P.O. Box 60267

City: New Orleans

State_or_Province: LA

Postal_Code: 70160-0267

Country: USA

Contact_Voice_Telephone: (504) 862-1852

Contact_Facsimile_Telephone: (504) 862-1850

Contact_Electronic_Mail_Address: mark.w.huber@MVN02.usace.army.mil

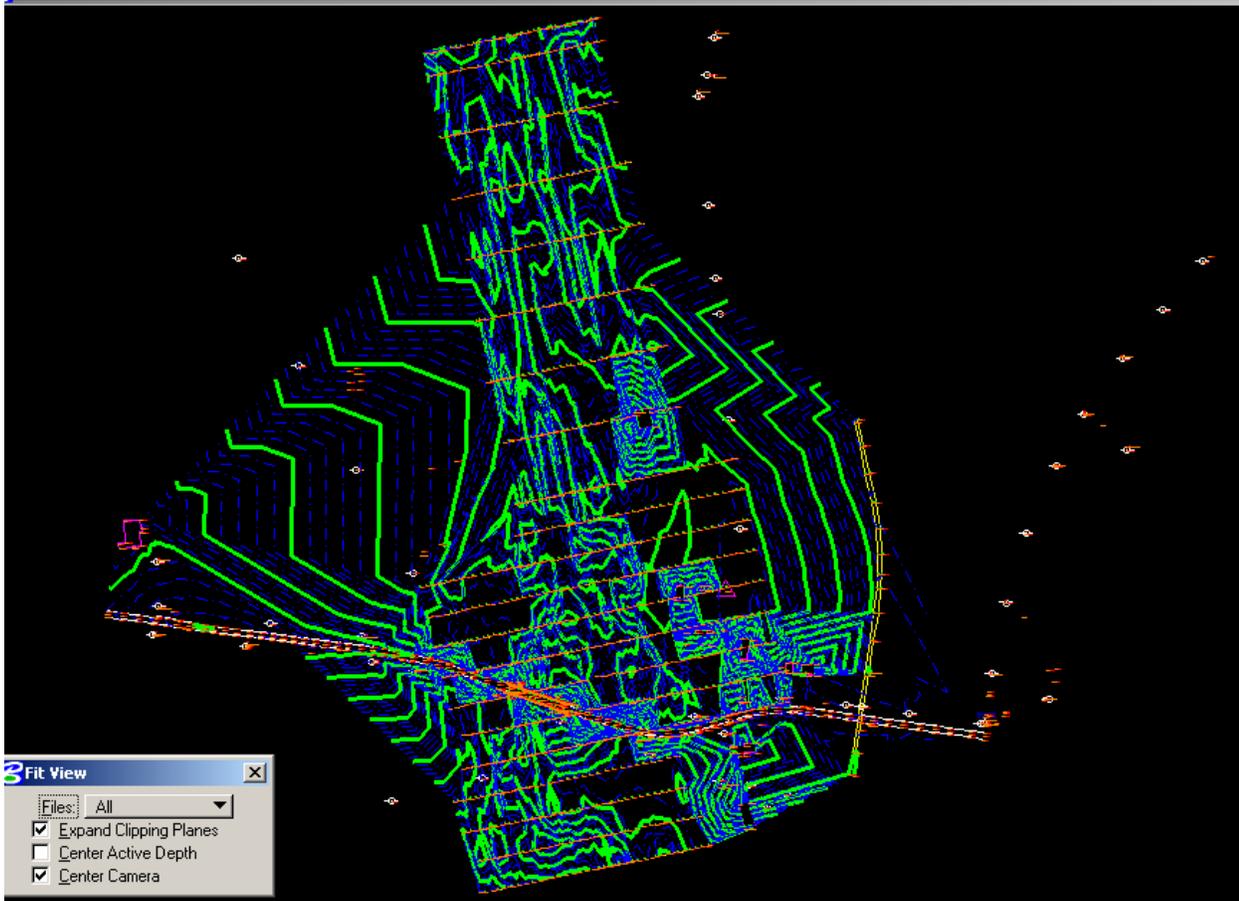
Metadata_Standard_Name:

FGDC Content Standards for Digital Geospatial Metadata

Metadata_Standard_Version: 19940608

K-10. Topographic Surveys Performed by New Orleans District In House Personnel

The following plate depicts a portion of the topographic surveys performed on this project.



K-11. Descriptor Codes

The following list contains the library of descriptor codes used on topographic phase of this project.

TOTAL STATION:
NIKON DTM-550
SERIAL NO. 010175

LEVEL:
ZEISS NI2
SERIAL NO. 101670

Field Descriptor Codes

AC AC; TOP OF A.C. PAD	CND CND; CONDUIT	ESL ESL; EDGE OF SLAG ROAD
AP AP; ABANDONED PIPE	CNL CNL; CANAL	ESP ESP; EDGE SHEET PILE
APR APR; APRON	COH COH; CONCRETE HEAD WALL	ESR ESR; EDGE SHELL ROAD
ASP ASP; ASPHALT	CON CON; CONCRETE	EW EW; EDGE WOODS
ATO ATO; ABUTMENT TOE	COR COR; CORNER	FEP FEP; FENCE POST
ATP ATP; ABUTMENT TOP	CP CP; CYPREMERLE TREE	FC FC; FENCE CORNER
BBP BBP; BOTTOM OF BORROW PIT	CPG CPG; CONCRETE PILING	FIP FIP; 4" POST
BBT BBT; BOTTOM OF BENT	CPT CPT; CYPRESS TREE	FL FL; FENCE LINE
BCR BCR; BRIDGE CORNER	CRD CRD; CROWN OF DIKE	FLB FLB; FENCE LINE BRICK
BFB BFB; BRICK FLOWER BED	CRK CRK; CENTERLINE ROCK	FLC FLC; FENCE LINE CHAIN LINK FENCE
BF BF; BRIDGE FENDER	CRA CRA; CENTERLINE OF RAIL	FLD FLD; FLOOD WALL
BL BL; BASELINE	CRB CRB; CURB	FLW FLW; FENCE LINE WOODEN
BM BM; BENCH MARK	CR CR; CROWN OF LEVEE	FP FP; FLY POINT
BLD BLD; BUILDING	CRN CRN; CROWN	FS FS; FLOOD SIDE LEVEE
BLK BLK; BULKHEAD	CRT CRT; CROSSTIE	FSC FSC; FLOOD SIDE CROWN
BNT BNT; BENT OF BRIDGE	CRW CRW; CONCRETE RETAINING WALL	FST FST; FLOOD SIDE TOE
BOD BOD; BOTTOM OF DITCH	CSP CSP; CONCRETE AT SWIMMING POOL	FTG FTG; FOOTING
BOS BOS; BOTTOM OF STREAM	CTD CTD; CENTER OF DRAIN	GAC GAC; GROUND AT CULVERT
BOT BOT; BOTTOM	CTH CTH; CATCH BASIN	GAP GAP; GROUND AT PIER
BRC BRC; BRIDGE CONCRETE	CTN CTN; COTTONWOOD TREE	GAT GAT; GATE
BRF BRF; BRIDGE FENDER	CUB CUB; BOTTOM OF CULVERT	GGE GGE; GAGE
BRK BRK; BREAKLINE	CUL CUL; CULVERT	GL GL; GAS LINE
BRW BRW; BREAK WALL	CYP CYP; CYPRESS TREE	GM GM; GAS METER
BS BS; BUSH	CYS CYS; CYPRESS TREES	GRN GRN; GROUND
BW BW; BRICK WALL	DGS DGS; DOGWOOD TREES	GR GR; GUARD RAIL
CAR CAR; CENTERLINE OF AGGREGATE ROAD	DKE DKE; DIKE	GRV GRV; GRAVEL
CAP CAP; CONCRETE APRON	DRI DRI; DROP INLET	GTB GTB; GAS TEST BOX
CA CA; CONCRETE ASPHALT	DRN DRN; DRAIN	GUY GUY; GUY WIRE
CB CB; CATCH BASIN	DRV DRV; DRIVE	GVL GVL; GAS VALVE
CBC CBC; CABLE LINE	EAR EAR; EDGE OF AGGREGATE ROAD	HBK HBK; HIGH BANK
CBK CBK; CONCRETE BULKHEAD	EBR EBR; EDGE CONCRETE BRIDGE	HBS HBS; HACKBERRY TREES
CBL CBL; CABLE	EC EC; EDGE CONCRETE	HED HED; HEDGES
CBT CBT; CONCRETE BLUT TOE	ECC ECC; EDGE CONCRETE CURB	HL HL; HEDGE LINE
CCL CCL; CENTERLINE OF CONCRETE CULVERT	ECR ECR; EDGE CONCRETE ROAD	HSE HSE; HOUSE
CCP CCP; CENTERLINE OF CONCRETE PAD	ECW ECW; EDGE OF WALL	HT HT; 10" HACKBERRY TREE
CCR CCR; CENTERLINE OF CONCRETE CURB	EDR EDR; EDGE OF DIRT ROAD	HUB HUB; HUB
CDR CDR; CONCRETE DRIVE	EFB EFB; EDGE OF FLOWER BED	HWL HWL; HEAD WALL
CFP CFP; CORNER FLAG POLE BASE	EGL EGL; EDGE OF GRASS LINE	HYD HYD; FIRE HYDRANT
CG CG; CATTLE GUARD	ELS ELS; EDGE OF LIMESTONE	INV INV; PIPE INVERT
CH CH; CORNER HOUSE	ELM ELM; ELM TREE	IP IP; IRON PIPE
CHW CHW; CENTERLINE OF HEAD WALL	ELS ELS; ELM TREES	IRL IRL; IRON RAIL
CLG CLG; CENTERLINE GABION	EMG EMG; EDGE OF METAL GRATING	IR IR; IRON ROD
CL CL; CENTERLINE	EOA EOA; EDGE OF ASPHALT	LC LC; LOW CORD
CLB CLB; CENTERLINE OF BRIDGE	EOB EOB; EDGE OF BRIDGE	LPL LPL; LIGHT POLE
CLC CLC; CENTER OF CONCRETE	EOC EOC; EDGE OF CULVERT	LW LW; LOW WIRE
CLD CLD; CENTER OF DITCH	EOR EOR; EDGE OF RIP RAP	MB MB; MULLBERRY TREE
CLI CLI; CENTERLINE	EOM EOM; EDGE OF MEDIAN	MBX MBX; MAIL BOX
CLR CLR; CENTERLINE OF ROAD	EP EP; EDGE OF PLATFORM	MET MET; METAL; TOP OF GATES
CLW CLW; CENTERLINE OF WALKWAY	EPL EPL; EDGE OF PARKING LOT	MF MF; MUD FLAT
	ER ER; EDGE OF ROAD	MGT MGT; MAGNOLIA TREE
	ERF ERF; EDGE OF ROAD FLOOD SIDE	MH MH; MANHOLE COVER
	ERP ERP; EDGE OF ROAD PROTECTED SIDE	MON MON; MONUMENT
	ESH ESH; EDGE SHELL ROAD	MSH MSH; MARSH
		MTR MTR; METER
		MTX MTX; METER BOX
		NG NG; NATURAL GROUND
		NGP NGP; NATURAL GROUND AT PILING

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NS NS; NORTH SIDE	SS SS; SOUTH SIDE	TP TP; TOP OF OLD RR BED
OH OH; OVERHEAD POWER LINES	SHD SHD; SHOULDER	TPB TPB; TOP OF BERM
OT OT; OAK TREE	SP SP; SHEET PILING	TPL TPL; TELEPHONE POLE
OTS OTS; OAK TREES	SHL SHL; SHELL	TPR TPR; TOP ROCK
PC PC; PECAN TREE	SLP SLP; SLOPE SHOT	TPT TPT; TOP SETTLEMENT PLATE
PCS PCS; PECAN TREES	SND SND; SOUNDINGS	TPW TPW; TOP OF CONCRETE WING WALL
PIC PIC; PIPE INVERT, CONCRETE	SNG SNG; SOUNDINGS	TR TR; TREE
PIM PIM; PIPE INVERT, CMP	SOC SOC; SLOPE ON CONCRETE	TRA TRA; TOE OF GUARD RAIL
PIN PIN; PIPE INVERT	SRR SRR; SLOPE ON RIP RAP	TRL TRL; TREE LINE
PIP PIP; PIPE INVERT, PLASTIC	SPT SPT; TOE OF SHEET PILING	TRN TRN; TRANSFORMER
PIR PIR; PIER	SPV SPV; SLOPE PAVING	TRW TRW; TOE OF CONCRETE RETAINING WALL
PIS PIS; PIPE INVERT, STEEL	STP STP; STEPS	TSP TSP; TOP OF THE SHEET PILING
PL PL; PIPELINE CROSSING	SWK SWK; SIDEWALK	TWB TWB; TOP WOOD BANK
PLC PLC; POWER LINE CROSSING	TEP TEP; TELEPHONE PEDESTAL	TWR TWR; TOWER
PLG PLG; PILING	TB TB; TOE OF OLD RR BED	TWW TWW; TOE OF CONCRETE WING WALL
PLT PLT; PLATFORM	TBK TBK; TOP OF BANK	UBX UBX; UTILITY BOX
POR POR; PORCH	TBL TBL; TOE OF BALLAST	UGT UGT; UNDERGROUND TELEPHONE LINE
PPE PPE; PIPE	TBP TBP; TOP OF BORROW PIT	UTL UTL; UTILITIES
PPL PPL; POWER POLE	TBR TBR; TOE OF BERM	VAL VAL; VALVE
PP PP; PICTURE POINT	TBS TBS; TOP OF BALLAST	WF WF; WATER FAUCET
PRK PRK; PIPE RACK	TC TC; TOP CONCRETE	WLN WLN; WATER LINE
PSC PSC; PROTECTED SIDE CROWN	TCB TCB; TOP CONCRETE BANK	WBT WBT; WOOD BANK TOE
PST PST; PROTECTED SIDE TOE	TCR TCR; TOE CURB	WBK WBK; WOOD BULKHEAD
PS PS; PROTECTED SIDE LEVEE	TCS TCS; TOP OF CONCRETE PAVEMENT (ON SLOPE)	WDP WDP; WOOD PILING
PT PT; 10" PINE TREE	TCW TCW; TOP OF CONCRETE WALL	WE WE; WATER EDGE
PTS PTS; PINE TREES	TEC TEC; TOP ON EDGE OF CONCRETE WALL	WES WES; WATER EDGE SURFACE
PVC PVC; PVC PIPE	TED TED; TOP EDGE OF DITCH	WFL WFL; WOOD FENCE LINE
PWC PWC; 4" POST WITH CABLE	THR THR; THRESHOLD	WL WL; WOODLINE
PWL PWL; POWERLINE	TIP TIP; 3" POST	WLK WLK; WALKWAY
RAL RAL; GUARD RAIL	TNK TNK; TANK	WLS WLS; WILLOW TREES
RCK RCK; ROCK	TOB TOB; TOE OF BORROW PIT	WM WM; WATER MAIN - METER
RCP RCP; INV. RCP	TOC TOC; TOE OF CONCRETE WALL	WMA WMA; WATER MAIN HOLE
RD RD; ROAD	TOD TOD; TOE OF DITCH	WRW WRW; WOODEN RETAINING WALL
RMP RMP; RAMP	TOE TOE; TOE ON NATURAL GROUND	WS WS; WATER SURFACE
RDM RDM; RED DAY MARKER	TOL TOL; TOP OF LEVEE	WSB WSB; WISTERA BUSH
ROW ROW; RIGHT OF WAY	TOP TOP; TOP ON NATURAL GROUND	WV WV; WATER VALVE
RP RP; RIP RAP	TOR TOR; TOE ROCK	WW WW; WING WALL
RRP RRP; RAILROAD POST	TOW TOW; TOP OF WALL	XBR XBR; BRIDGE CROSS BRACE
SCO SCO; SEWER CLEAR OUT	TPC TPC; TOP CURB	
SGN SGN; SIGN	TEL TEL; TELEPHONE LINE	
SGP SGP; SIGN POST		