



**DODSON RD. ROADSIDE DITCH CAPACITY**

AVG. DEPTH = 1.0'±

$n = 0.3$

$d = 1.0'$

$q = 1.0019$

$Q = 6.5$  SQ.FT.

$Q = 946$

$Q = 13.54$  cfs each ditch

$X2 = 27.1$  cfs

**BENCH MARK**

BENCH MARK: NATIONAL GEODETIC SURVEY MARKER

Y1216, 1973 ADJ. ELEV. = 125.994

Y1216, 1978 ADJ. ELEV. = 125.406

Y1216, 1988 ADJ. ELEV. = 123.94 (THIS ADJUSTMENT WAS USED FOR CUTTEN ROAD)

ELEVATIONS SHOWN HEREON ARE BASED ON 1973 ADJUSTMENT

TBM #1: SET RAILROAD SPIKE ON SOUTH SIDE OF 14' TALLOW APPROXIMATELY 31 FEET NORTH OF THE END OF CENTERFIELD DRIVE. ELEVATION = 128.60

TBM #2: SET RAILROAD SPIKE ON SOUTH SIDE OF POWER POLE WITH TRANSFORMER ON WEST SIDE OF PRIVATE ROAD AND 200 FEET NORTH OF PRIVATE ROAD. ELEVATION = 130.62

TBM #3: SET RAILROAD SPIKE ON EAST SIDE OF POWER POLE ON WEST SIDE OF HARGRAVE ROAD AND NORTH OF THE INTERSECTION OF DODSON ROAD & HARGRAVE ROAD. ELEVATION = 128.04

TBM #4: RAILROAD SPIKE ON EAST SIDE OF POWER POLE #13629 ON THE WEST SIDE OF HARGRAVE ROAD APPROXIMATELY 30 FEET NORTH OF 18 INCH R.C.P. AT GRAVEL DRIVE FROM 13627 HARGRAVE ROAD. ELEVATION = 130.56

**NOTE:** THIS TRACT IS IN ZONE "X" AS PER FEMA FLOOD INSURANCE RATE MAP PANEL NO. 4620100245 J, HARRIS COUNTY, TX, REVISED NOV. 5, 1996. ZONE "X" IS DESCRIBED AS BEING OUTSIDE THE 500 YEAR FLOODPLAIN.

APPROVED: \_\_\_\_\_ for Assistant County Engineer

Date \_\_\_\_\_

Approved implied for paving and drainage facilities within Harris County R.O.W. and/or jurisdiction. All other improvements in H.C.R.O.W. and/or jurisdiction are approved as to location only. The above authorization is valid for one (1) year only.

Rev.	Date	Description	App.

**PRIVATE UTILITY LINES SHOWN**

*Ca Waterwall* 12/27/99  
RELIANT ENERGIES, INC./ENTEX

*Mike Balin* 12/29/99  
SOUTHWESTERN BELL TELEPHONE CO.  
Valid for One Year Only

*Ca Waterwall* 12/29/99  
RELIANT ENERGIES, INC./H.L&P. CO.  
Approval Only for Crossing Underground  
Ductlines Unless Noted. Valid at Time of Review Only.

**CITY OF HOUSTON**  
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

REVIEWED BY

PRIVATELY FUNDED PUBLIC WORKS	CITY FUNDED PUBLIC WORKS
<i>Water Soldiers - 1-6-2000</i>	
WATER	PROJECT MANAGER
<i>Hessley 1/6/00</i>	
WASTEWATER	CONSTRUCTION
<i>OP/MP 1-6-2K</i>	
STORM WATER	CHIEF ENGINEER
STREET AND BRIDGE	

**OTHER APPROVAL**

TRAFFIC AND TRANSPORTATION SPONSOR DEPARTMENT

CITY ENGINEER DATE  
*Mark L...* 1/1/2000  
DIRECTOR OF PUBLIC WORKS AND ENGINEERING DATE

SUBMITTED: \_\_\_\_\_ DESIGNED BY: BOBBY WILSON

SCALE: 1" = 30' DRAWN BY: BILL DORRIS

DATE: NOVEMBER 1999 SHEET NO. 4 OF 11 SHEETS

SURVEY BY: \_\_\_\_\_ CITY DWG. NO. OALO.DWG

F B NO: 481

**HARRIS COUNTY MUD 191**  
DETENTION POND  
to serve  
CHAMPIONS ARBOR  
OVERALL LAYOUT

**PCI** PROVIDENT CONSULTING, INC.  
1200 WEST 11TH ST.  
HOUSTON, TEXAS 77008  
(713)802-1019

**LEGEND**

- TOP OF BANK, EXISTING POND AND DETENTION POND
- CONSTRUCTED TOP OF BANK DETENTION POND

**DETENTION SUMMARY**

1. Area Served = 37.9 acres
2. Detention Storage Rate = Cs = 0.39
3. Detention Storage Volume Required = 13.78 acre-feet
4. Detention Storage Volume Provided = 14.72 acre-feet
5. Maximum Design Water Surface Elevation = 127.70
6. Maximum Outflow Rate Allowed = 70 cfs
7. Maximum Outflow Rate Provided = 58.76 cfs
8. Restrictor Size = 54 inches
9. As per that Report Entitled Preliminary Engineering Report Two Interconnected Detention Ponds Serving Highland Timbers Subdivision and Sedona Woods (Now Called Champions Arbor) dated Oct. 1, 1999, and as Accepted by H.C.F.C.D. Letter dated Nov. 29, 1999.

