

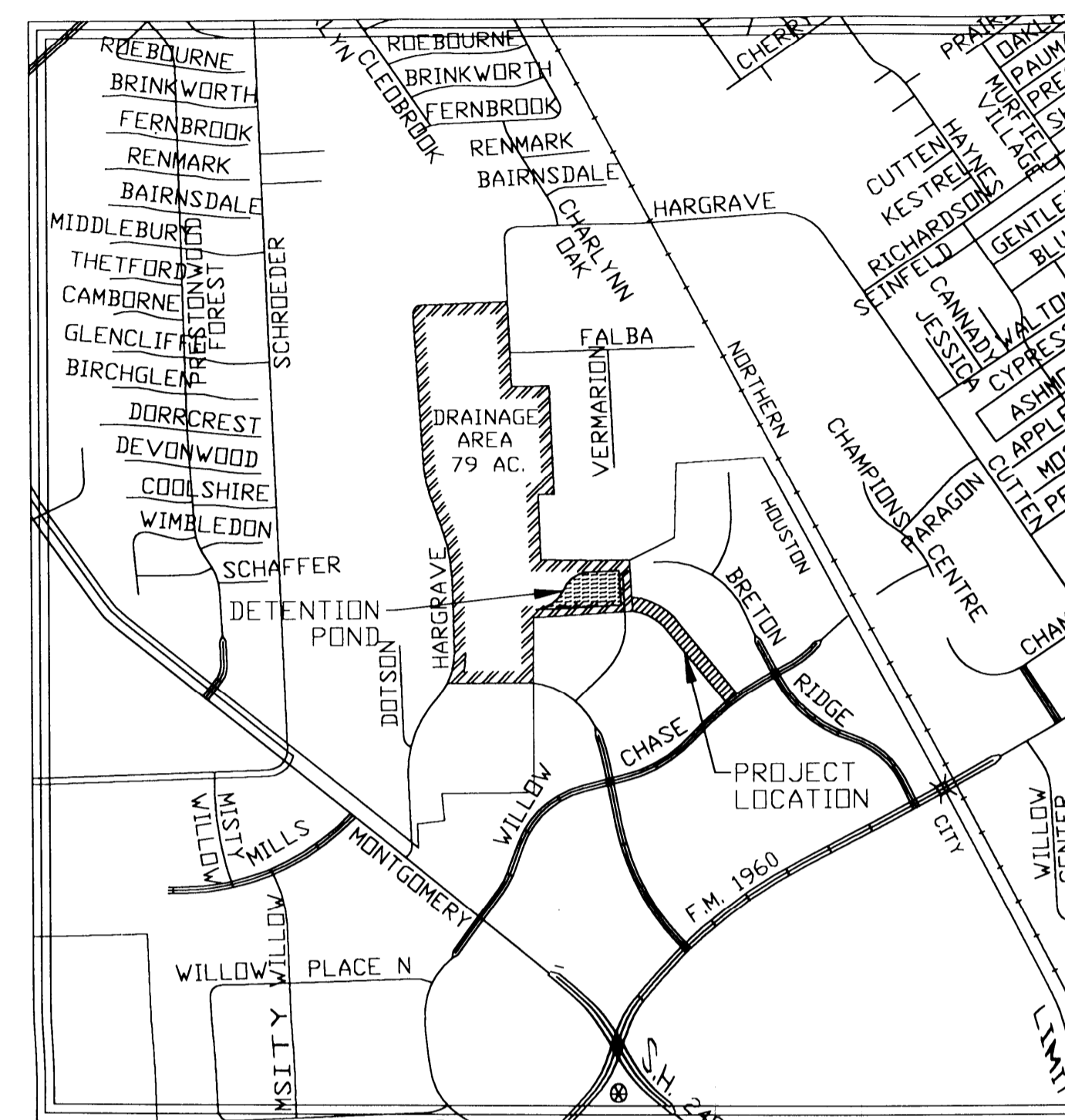
CAUTION UNDERGROUND GAS FACILITIES

LOCATION OF EXISTING MAIN LINES (TO INCLUDE UNIT GAS TRANSMISSION, AND/OR INDUSTRIAL GAS SUPPLY CORPORATION, WHERE APPLICABLE) AS SHOWN IN AN APPROXIMATE LOCATION ONLY. SERVICE LINES ARE USUALLY NOT SHOWN. THE CONTRACTOR SHALL CONTACT THE UTILITY COORDINATING COMMITTEE AT 223-4897 OR 1-800-669-8344 A MINIMUM OF 48 HOURS PRIOR TO CONTRACTOR MAIN AND SERVICE LINES BEING LOCATED. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION BEFORE COMMENCING WORK AND AGREE TO BE FULLY RESPONSIBLE FOR ANY DAMAGES CAUSED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE THESE UNDERGROUND FACILITIES.

OVERHEAD LINES MAY EXIST ON THE PROPERTY. WE HAVE NOT ATTEMPTED TO MARK THESE LINES SINCE THEY ARE CLEARLY VISIBLE, BUT YOU SHOULD LOCATE THEM PRIOR TO BEGINNING ANY CONSTRUCTION. TEXAS LAW, SECTION 752, HEALTH AND SAFETY CODE, FORBIDS ALL ACTIVITIES IN WHICH PERSONS OR THINGS MAY COME WITHIN SIX FEET (6') OF LIVE OVERHEAD HIGH VOLTAGE LINES. CONTRACTORS AND OWNERS ARE LEGALLY RESPONSIBLE FOR THE SAFETY OF CONSTRUCTION WORKERS UNDER THIS LAW. THIS LAW CARRIES BOTH CRIMINAL AND CIVIL LIABILITY. TO AVOID THIS LAW, ALL LINES TO BE TRENCHED OFF OR MOVED, CALL 811 AT 202-7777.

TEXAS LAW ARTICLE 140C, PROHIBITS ALL ACTIVITIES IN WHICH PERSONS OR EQUIPMENT MAY COME WITHIN SIX FEET (6') OF ENERGIZED OVERHEAD POWER LINES, AND FEDERAL REGULATIONS, TITLE 29, PART 1910 (10) (1) AND PART 1926.550 (A) (1) REQUIRE A MINIMUM CLEARANCE OF TEN FEET (10') FROM FACILITIES. THE ABOVE LAWS CARRY BOTH CRIMINAL AND CIVIL LIABILITY. WITH CONTRACTORS AND OWNERS BEING LEGALLY RESPONSIBLE FOR THE SAFETY OF WORKERS UNDER THESE LAWS. IF YOU OR YOUR COMPANY MUST WORK NEAR OVERHEAD POWER LINES, CALL (713) 228-7460 FOR THE LINES TO BE DE-ENERGIZED AND/OR MOVED AT YOUR EXPENSE.

THE LOCATIONS OF SOUTHWESTERN BELL TELEPHONE CO. UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION BEFORE COMMENCING WORK. HE AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE THESE UNDERGROUND FACILITIES.



SOIL BORING NO. 2

3.6062 ACRES  
(PARCEL "Y")  
H.C.C.F. NO. R901214

STREET, BRIDGE, AND R.O.W. NOTES

- CONDITION OF THE ROAD AND/OR RIGHT-OF-WAY, UPON COMPLETION OF JOB, SHALL BE AS GOOD AS OR BETTER THAN PRIOR TO STARTING WORK.
- EXPOSE 15" OF REINFORCING STEEL AT PROPOSED SAWED JOINT. IF NOT REINFORCING STEEL EXISTS, USE HORIZONTAL DOWELS. HORIZONTAL DOWELS SHALL BE #6 BARS, 24" LONG, 24" C.C., DRILLED AND EMBEDDED 8" INTO THE CENTER OF THE EXISTING SLAB WITH "PO-ROC" OR EQUAL.
- CONTRACTOR TO TAKE NECESSARY PRECAUTIONS TO PROTECT ROOT SYSTEMS OF SHRUBS, PLANTS AND TREES ALONG THE AREA OF EXCAVATION.
- ADEQUATE DRAINAGE SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION AND ANY DRAINAGE DITCH OR STRUCTURE DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO THE SATISFACTION OF THE OWNING AUTHORITY.
- CONTRACTOR SHALL COMPLY WITH OSHA REGULATIONS AND STATE OF TEXAS LAW CONCERNING EXCAVATION, TRENCHING AND SHORING AS SPECIFIED IN CITY OF HOUSTON ORDINANCE #67-1457.
- EXISTING PAVEMENTS, CURBS, SIDEWALKS AND DRIVEWAYS DAMAGED OR REMOVED DURING CONSTRUCTION SHALL BE REPLACED TO CITY OF HOUSTON STANDARDS, WITH LATEST ADDENDA AND AMENDMENTS HERETO.
- WHEELCHAIR RAMPS SHALL BE INSTALLED IN ACCORDANCE WITH CITY OF HOUSTON STANDARDS AT ALL INTERSECTIONS WHERE SIDEWALKS EXIST AND THE EXISTING CURB OR SIDEWALK IS DAMAGED OR REMOVED DURING CONSTRUCTION.

SOIL BORING NO. 1

- CONSTRUCTION NOTES FOR HIGHLAND DETENTION BASIN OUTFALL SEWER
- STORM SEWER SHALL BE IN ACCORDANCE WITH CITY OF HOUSTON DESIGN MANUAL AND STANDARD CONSTRUCTION DETAILS (SEPTEMBER 1996) AS CURRENTLY AMENDED.
  - REINFORCED CONCRETE PIPE (C-76 CLASS) STORM SEWERS SHALL BE INSTALLED, BEDDED AND BACKFILLED IN ACCORDANCE WITH CITY OF HOUSTON DRAWINGS 0217-04, 0217-05 AND 0217-09 AS APPLICABLE.
  - ALL SEWERS UNDER OR WITHIN ONE FOOT OF PROPOSED OR FUTURE PAVEMENT SHALL BE BACKFILLED WITH 1 1/2 SACK CEMENT STABILIZED SAND TO WITHIN ONE FOOT OF SUBGRADE.
  - ALTERNATIVE TO CEMENT STABILIZED SAND BACKFILL FOR DEEPS 4 INCHES AND LARGER, FROM 4 INCHES ABOVE THE TOP OF THE PIPE TO THE BOTTOM OF THE SUBGRADE, CONTRACTOR MAY BACKFILL WITH SUITABLE MATERIAL, PROVIDED THE BACKFILL MATERIAL IS PLACED IN 4 INCH LIFTS AND MECHANICALLY COMPACTED TO 95% STANDARD PROCTOR DENSITY. DENSITY TESTS SHALL BE TAKEN ON EACH LIFT. BEDDING AND BACKFILL TO 4 INCHES ABOVE THE TOP OF PIPE SHALL BE CEMENT STABILIZED SAND.
  - ALL PROPOSED PIPE STUBOUTS FROM MANHOLES OR INLETS ARE TO BE PLUGGED WITH 6" BRICK WALLS UNLESS OTHERWISE NOTED.
  - THE CONTRACTOR SHALL NOTIFY HARRIS COUNTY ENGINEERING DEPARTMENT 24 HOURS IN ADVANCE OF COMMENCING CONSTRUCTION AT 713-755-8210 AND WRITTEN NOTIFICATION 48 HOURS IN ADVANCE OF COMMENCING CONSTRUCTION.
  - PAVING SHALL BE IN ACCORDANCE WITH HARRIS COUNTY "RULES, REGULATIONS AND REQUIREMENTS" RELATING TO THE APPROVAL AND ACCEPTANCE OF IMPROVEMENTS IN SUBDIVISIONS OR RE-SUBDIVISIONS AND/OR AMENDMENTS TO SAME.
  - GUIDELINES SET FORTH IN THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" SHALL BE OBSERVED.
  - OWNER TO OBTAIN ALL PERMITS REQUIRED BY CITY OF HOUSTON AND HARRIS COUNTY, TEXAS PRIOR TO STARTING CONSTRUCTION OF UTILITY AND/OR CULVERTS WITHIN CITY OF HOUSTON ROAD RIGHTS-OF-WAY.
  - CONTRACTOR TO OBTAIN ALL PERMITS REQUIRED BY REGULATION OF HARRIS COUNTY, TEXAS FOR FLOOD PLAIN MANAGEMENT PRIOR TO STARTING CONSTRUCTION.
  - CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONSTRUCTION STAKING. OWNER TO PROVIDE CENTERLINE CONTROL AND ONE (1) SITE BENCHMARK.
  - CONTRACTOR SHALL RESTORE FENCES, LANDSCAPING AND ANY OTHER SURFACE FEATURES IMPACTED BY THE CONSTRUCTION OF PROPOSED IMPROVEMENTS ON EXISTING UTILITIES. THIS WORK SHALL BE INCIDENTAL TO THE BID PRICE FOR EACH ITEM OF WORK.
  - UTILITY CONTRACTOR SHALL INSTALL AND MAINTAIN ALL IMPROVEMENTS NECESSARY TO COMPLY WITH THE PROJECT'S STORMWATER POLLUTION PREVENTION PLAN.
  - EXISTING PAVEMENTS, CURB, SIDEWALKS, AND DRIVEWAYS DAMAGED OR REMOVED DURING CONSTRUCTION SHALL BE REPLACED BY CITY OF HOUSTON STANDARDS.
  - CONDITION OF THE ROAD AND/OR RIGHT-OF-WAY, UPON COMPLETION OF JOB, SHALL BE AS GOOD AS OR BETTER THAN THE CONDITION PRIOR TO STARTING WORK.
  - ADEQUATE DRAINAGE SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION AND ANY DRAINAGE DITCH OR STRUCTURE DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO THE SATISFACTION OF THE OWNING AUTHORITY. ALL CONSTRUCTION STORM RUNOFF SHALL COMPLY WITH THE FINAL DRAFT OF STORMWATER MANAGEMENT HANDBOOK FOR CONSTRUCTION ACTIVITIES AS PREPARED BY HARRIS COUNTY/PC, AND THE CITY OF HOUSTON ALL IN COMPLIANCE WITH THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) REQUIREMENTS.

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 = 130.82

TBM #3: SET RAILROAD SPIKE ON EAST SIDE OF POWER POLE ON WEST SIDE OF HARGRAVE ROAD AND NORTH OF THE INTERSECTION OF DOTSON 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

APPROVED BY: \_\_\_\_\_  
 ASSISTANT FOR COUNTY ENGINEER

DATE \_\_\_\_\_  
 WATER & SANITARY SEWER LINES APPROVED AS TO LOCATION ONLY  
 THE ABOVE AUTHORIZATION IS VALID FOR 1 YEAR ONLY

Rev.	Date	Description	App.
10-24-98		CHANGED END OF CONTRACT TO STA 12+80	

PRIVATE UTILITY LINES SHOWN

*Waterwall* 9/29/98  
 ENTEX, INC.

*Mike Balin* 9/29/98  
 SOUTHWESTERN BELL TELEPHONE CO.  
 Valid for One Year Only

*Thomas Sab* 9-22-98  
 HOUSTON LIGHTING & POWER CO.  
 Approval Only for Crossing Underground  
 Ductlines Unless Noted. Valid at Time of Review Only.

CITY OF HOUSTON  
 DEPARTMENT OF PUBLIC WORKS & ENGINEERING  
 ENGINEERING, CONSTRUCTION AND REAL ESTATE GROUP

SECTION APPROVALS

<i>Wade</i> 10-1-98 WATER DESIGN	<i>Wade</i> 10/1/98 TRAFFIC AND SIGNAL DESIGN
<i>Wade</i> 10.1.98 STORM SEWER DESIGN	<i>Wade</i> 10/1/98 STREET, BRIDGE AND RIGHT-OF-WAY DESIGN
<i>Wade</i> 10/1/98 WASTEWATER DESIGN	CONSTRUCTION

OTHER DEPARTMENTS

PLANNING AND DEVELOPMENT

*Richard* 10-10-98  
CITY ENGINEER DATE

*Wade* 10/12/98  
DIRECTOR OF PUBLIC WORKS AND ENGINEERING DATE

SUBMITTED: \_\_\_\_\_ DESIGNED BY: BOBBY WILSON  
 SCALE: 1" = 50' DRAWN BY: BILL DORRIS  
 DATE: 09/26/98 SHEET NO. 2 OF 9 SHEETS  
 SURVEY BY: H. HOVIS  
 JOB NO: 466 DWG. NO. 2 NOTES 9

HIGHLAND OAKS  
 OVERALL LAYOUT & NOTES

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

*Bobby Wilson*  
 9-29-98