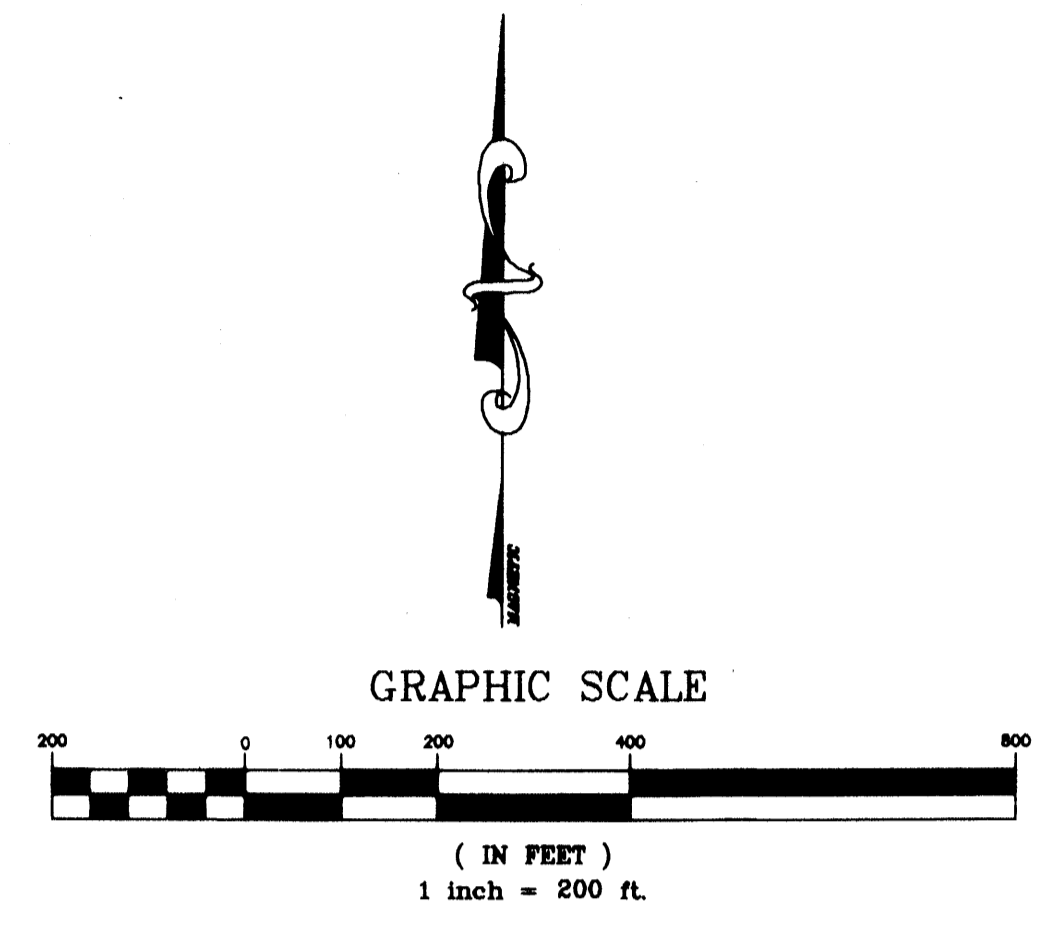


**BENCHMARK:** ELEV. 120.34  
 N.G.S. MOUNTAIN C-1221, LOCATED BETWEEN THE NORTH BELTWAY AND GREENS BAYOU 20' SOUTHWEST OF S.H. 249 AND 530' NORTH-WESTERLY FROM THE INTERSECTION OF S.H. 249 WITH THE BURLINGTON ROCK ISLAND RAILROAD. (1973 DATUM)

**ON-SITE BENCHMARK:** ELEV. 115.76  
 STANDARD HARRIS COUNTY FLOOD CONTROL DISTRICT BRASS DISK SET IN CONCRETE AND LOCATED 10.15 FEET WEST OF THE NORTHWEST FENCE CORNER AT THE INTERSECTION OF HILTONVIEW AND MAZEN ROAD (1973 DATUM)



**DETENTION POND CALCULATIONS**

1. SERVICE AREA:
  - CHAMPIONS CENTRE ESTATES SECTION TWO = 15,8563 ACRES
  - CHAMPIONS CENTRE MIRAGE = 20,8613 ACRES
  - PINNACLE AT CHAMPION CENTRE = 8,0370 ACRES
  - AREA EXEMPT FROM DETENTION = 5,2384 ACRES
  - AREA SUBJECT TO DETENTION = 39.3162 ACRES
2. DETENTION STORAGE RATE:  
 CS = 0.79 ACRE-FT / ACRE
3. DETENTION STORAGE VOLUME REQUIRED: 31.06 ACRE-FT  
 39.3162 ACRES x 0.79 ACRE-FT/ACRE x 43560 SQ.FT./ACRE = 1,352,965 CU.FT.
4. DETENTION STORAGE VOLUME PROVIDED:
  - △ V (area 1) = 132' x 182' x (112.6-104.5) = 194,595 cu ft
  - V (area 2) = 70' x 225' x (113.5-104.3) = 144,900 cu ft
  - V (area 3) = 570' x 255' x (106.3-104.4) x .5 = 138,082 cu ft
  - V (area 4) = 320' x 142' x (113.6-104.8) = 399,872 cu ft
  - V (area 5) = 375' x 142' x (114.8-104.8) = 475,700 cu ft

Total V = 194,595+144,900+138,082+399,872+475,700 = 1,353,149 cu ft  
 Total V = 31.06 ac-ft  
 For areas 1,2,3,4, & 5 see shaded areas this page
5. MAXIMUM DESIGN WATER SURFACE ELEVATION = 115.00
6. MAXIMUM OUTFLOW RATE ALLOWED = OUTFALL INSTALLED BY OTHERS
7. MAXIMUM OUTFLOW RATE PROVIDED = OUTFALL INSTALLED BY OTHERS
8. RESTRICTOR SIZE = RESTRICTOR INSTALLED BY OTHERS

**NOTE:**  
 WETLANDS NOT TO BE DISTURBED

Rev.	Date	Description	App.
1	7/10/96	Moved pond location to save trees	MVB

**PRIVATE UTILITY LINES SHOWN**

ENTEX, INC.

SOUTHWESTERN BELL TELEPHONE CO.  
 Valid for One Year Only

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**

WATER DESIGN	TRAFFIC AND SIGNAL DESIGN
STORM SEWER DESIGN	STREET, BRIDGE AND RIGHT-OF-WAY DESIGN
WASTEWATER DESIGN	CONSTRUCTION

**OTHER DEPARTMENTS**

PLANNING AND DEVELOPMENT

CITY ENGINEER DATE

DIRECTOR OF PUBLIC WORKS AND ENGINEERING DATE

SUBMITTED: \_\_\_\_\_ DESIGNED BY: MVB

SCALE: 1"=200' DRAWN BY: MVB

DATE: 2/27/96 SHEET NO. 3 OF 5 SHEETS

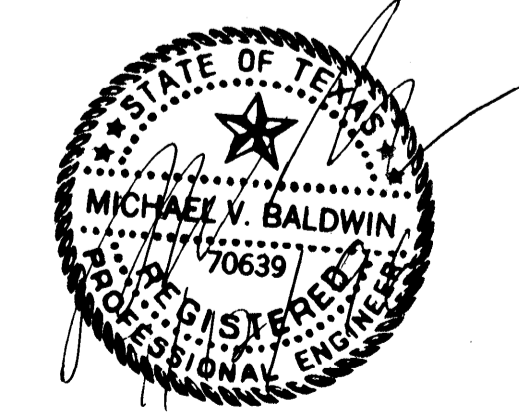
SURVEY BY: \_\_\_\_\_ DWG. NO. spond.dwg

JOB NO: 450

Harris County M.U.D. #191

EXPANSION OF REGIONAL DETENTION FACILITY TO SERVE CHAMPION CENTRE MIRAGE, SECTION TWO, AND PINNACLE AT CHAMPION CENTRE

**SITE PLAN**



SAM HOUSTON TOLLWAY (BELTWAY 8)