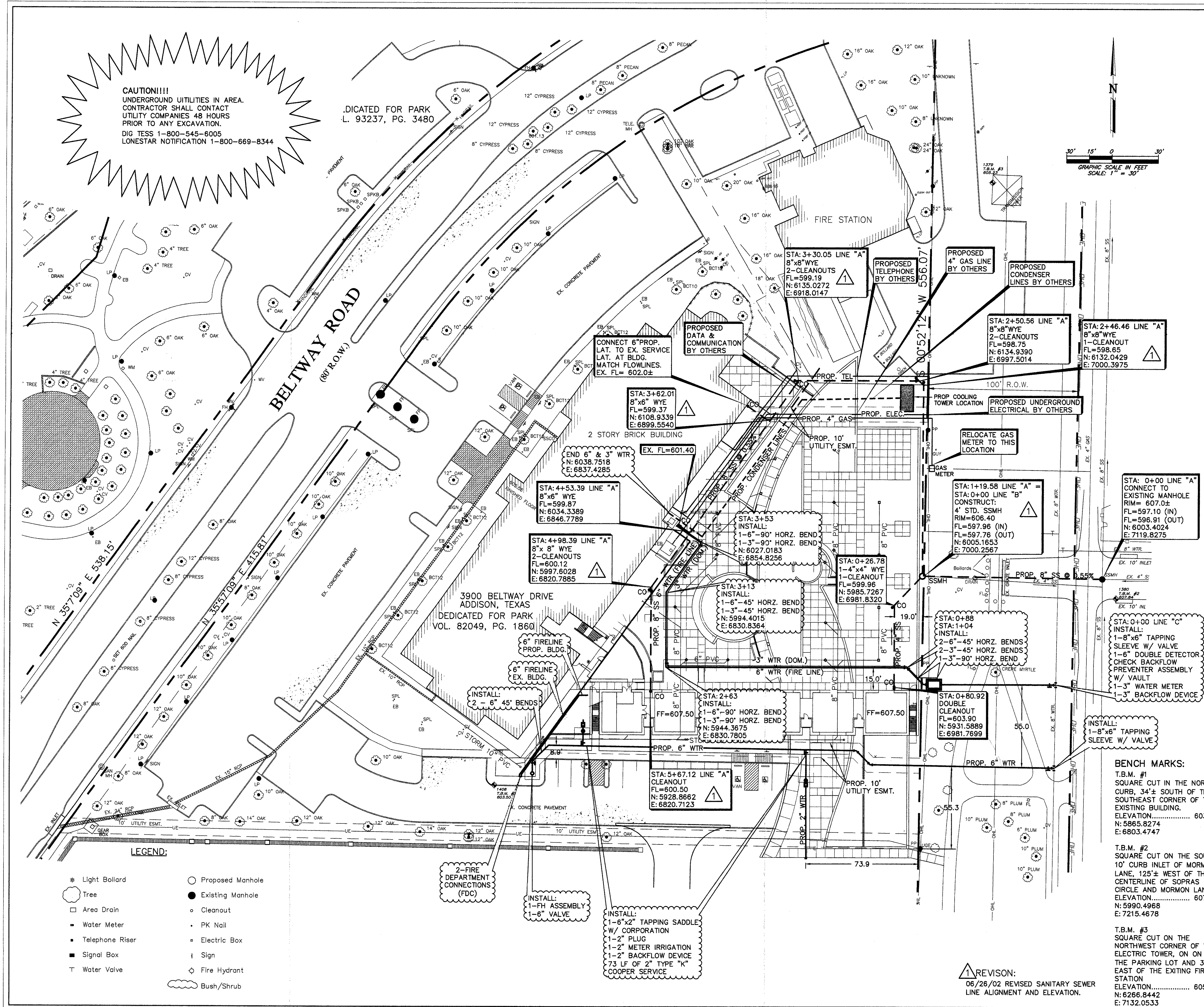


ISSUE DATE	FEB. 20, 2002
REVISIONS	

**ADDISON ATHLETIC CLUB EXPANSION AND LEISURE POOL**  
 ADDISON, TEXAS

**RON HOBBS ARCHITECTS**  
 614 W. MAIN ST. SUITE #200 GARLAND, TEXAS 75040  
 (972) 494-0774 FAX (972) 494-0722



**CAUTION!!!**  
 UNDERGROUND UTILITIES IN AREA.  
 CONTRACTOR SHALL CONTACT  
 UTILITY COMPANIES 48 HOURS  
 PRIOR TO ANY EXCAVATION.  
 DIG TESS 1-800-545-8005  
 LONESTAR NOTIFICATION 1-800-669-8344

- WATER & SANITARY SEWER NOTES:**
- ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO STANDARD CONSTRUCTION SPECIFICATIONS OF N.C.T.C.O.G., LATEST EDITION & THE TOWN OF ADDISON STANDARDS AND SPECIFICATIONS, EXCEPT AS NOTED HEREIN.
  - CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING TRENCH SAFETY REQUIREMENTS IN ACCORDANCE WITH TOWN STANDARDS, TEXAS STATE LAW, AND O.S.H.A. STANDARDS FOR ALL EXCAVATION IN EXCESS OF FIVE FEET IN DEPTH.
  - THE LOCATION OF ALL UTILITIES LOCATED ON THESE PLANS ARE TAKEN FROM EXISTING PUBLIC RECORDS. THE EXACT LOCATION AND ELEVATION OF ALL PUBLIC UTILITIES MUST BE DETERMINED BY THE CONTRACTOR. IT SHALL BE THE DUTY OF THE CONTRACTOR TO ASCERTAIN WHETHER ANY ADDITIONAL FACILITIES OTHER THAN THOSE SHOWN ON THE PLANS MAY BE PRESENT.
  - IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT ALL PUBLIC UTILITIES IN THE CONSTRUCTION OF THIS PROJECT.
  - ANY WATER & SANITARY SEWER INSTALLED OUTSIDE OF AN EASEMENT SHALL BE INSTALLED BY A LICENSED PLUMBER AND INSPECTED BY CODE ENFORCEMENT.
  - BACKFILL FOR UTILITY LINES SHALL BE COMPACTED TO 95% STANDARD PROCTOR DENSITY WITH 0 TO +3 OPT. MOISTURE. BACKFILL SHALL BE IN 8" MAX. LOOSE LIFTS, NO ROCKS OR CLODS GREATER THAN 3" DIAMETER, WHERE UTILITY LINES CROSS THE PARKING LOT, THE TOP 6" SHOULD BE COMPACTED SIMILARLY TO THE REMAINDER OF THE PARKING LOT.
  - IF ROCK IS ENCOUNTERED IN THE TRENCH, ROCK SPOIL SHALL NOT BE USED IN THE UPPER 1.5 FEET FOOT OF TRENCH. THE UPPER 1.5 FEET OF THE TRENCH IS TO BE FILLED WITH BACKFILLED MATERIAL PER GEOTECHNICAL REPORT RECOMMENDATIONS.
  - ALL WATER LINES SHALL MEET AWWA C909-75, PVC PRESSURE PIPE, PC 150.
  - ALL DUCTILE IRON FITTINGS SHALL BE OF THE MECHANICAL JOINT TYPE AND SHALL BE CLASS D, OR CLASS 250 ON SIZES 12" AND SMALLER IN ACCORDANCE WITH AWWA SPECIFICATION C-110-64 AND C-111-64. ALL FITTINGS WILL BE POLYWRAPPED (SMIL).
  - ALL WATER MAINS SHALL HAVE A MINIMUM COVER OF 42" OR SUFFICIENT COVER TO CLEAR OTHER UTILITIES AS MEASURED FROM TOP OF PIPE TO EXISTING GROUND LEVEL OR FINISHED GRADE, WHICHEVER IS GREATER.
  - FIRE HYDRANTS SHALL BE PLACED 3' FROM BACK OF CURB LOCATED AS SHOWN ON THE PLANS. GRADE-LOK HYDRANT LEAD.
  - FIRE HYDRANTS SHALL BE TOWN APPROVED.
  - ALL GATE VALVES SHALL BE TOWN APPROVED.
  - ALL WATER AND SANITARY MAINS AND SERVICES SHALL HAVE A 10' MIN. LATERAL SEPARATION. ALL WATER AND SEWER CROSSINGS SHALL COMPLY WITH TEXAS NATURAL RESOURCE CONSERVATION COMMISSION REG.
  - CONCRETE BLOCKING SHALL BE PROVIDED ON WATER MAINS AT ALL TEES, FIRE HYDRANTS, AND BENDS PER TOWN OF ADDISON STANDARDS. PAYMENT FOR CONCRETE BLOCKING SHALL BE SUBSIDIARY TO PIPE INSTALLATION AND SHALL BE INCLUDED IN THE BID PRICE THEREOF IN ADDITION TO RESTRAINING GLANDS - "MEGA-LUG" OR APPROVED EQUAL.
  - EMBEDMENT PVC WATER MAIN SHALL COMPLY WITH THE TOWN DETAILS AND SPECIFICATIONS.
  - ALL WATER METERS TO BE PLACED IN A NON-TRAFFIC AREA.
  - FIRE SPRINKLER LINE SHALL BE SIZED AND INSTALLED BY A STATE LICENSED FIRE SPRINKLER CONTRACTOR.
  - SANITARY SEWER MANHOLES SHALL BE CONSTRUCTED OF CAST-IN-PLACE CONCRETE WITH CAST IRON RING AND COVER PER TOWN OF ADDISON DETAILS.
  - THE SLOPE FOR SANITARY SEWER LATERALS SHALL BE 2% OR 1/4" PER FOOT, OR AS SHOWN ON PLANS.
  - REFER TO MECHANICAL PLANS FOR EXACT WATER AND SEWER SERVICE LOCATIONS.
  - ALL SANITARY SEWER LINES SHALL MEET ASTM-D 3034, PVC SEWER PIPE DR35 OVER 10" IN DEPTH, USE ASTM D 2241, PVS PIPE, SDR26 (160). PIPE SHALL HAVE INTERGRAL WALL BELL AND SPIGOT JOINTS.
  - ALL WATER SERVICES SHALL BE TYPE "K" COPPER PIPE.



THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY  
 TUAN P. LAM, P.E. 86968 ON 02/20/02 ALTERATION OF  
 A SEALED DOCUMENT WITHOUT THE PROPER NOTIFICATION TO  
 THE RESPONSIBLE ENGINEER IS AN OFFENSE UNDER THE TEXAS  
 ENGINEERING PRACTICE ACT.

**WATER & SANITARY SEWER PLAN**  
**ADDISON ATHLETIC CLUB**  
**EXPANSION & LEISURE POOL**  
 ADDISON, TEXAS

**R-DELTA ENGINEERS, INC.**  
 618 MAIN STREET GARLAND, TEXAS 75040  
 Phone (972) 494-5031 www.rdelta.com

DESIGN: CTL	CHECK: JRP	SCALE: 1"=30'	7 of 11
DRAWN: CEM	DATE: FEBRUARY, 2002	PROJECT: 982-01	

REVISION:  
 06/26/02 REVISED SANITARY SEWER  
 LINE ALIGNMENT AND ELEVATION.

JOB NUMBER	0012
SHEET NAME	WATER & SANITARY SEWER PLAN
SHEET NUMBER	C107