

**WATER & SANITARY SEWER NOTES:**

1. ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO STANDARD SPECIFICATIONS OF M.C.T.C.O.C. LATEST EDITION & ADDISON STANDARDS AND SPECIFICATIONS, EXCEPT AS NOTED HEREIN.
2. 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.
3. THE LOCATION OF ALL UTILITIES LOCATED ON THESE PLANS ARE TAKEN FROM THE RECORD DRAWINGS AND FIELD SURVEY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION OF ALL UTILITIES. IT SHALL BE THE DUTY OF THE CONTRACTOR TO ASCERTAIN WHETHER ANY ADDITIONAL UTILITIES OTHER THAN THOSE SHOWN ON THE PLANS MAY BE PRESENT.
4. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT ALL PUBLIC UTILITIES IN THE CONSTRUCTION OF THIS PROJECT.
5. ANY WATER & SANITARY SEWER INSTALLED OUTSIDE OF AN EASEMENT SHALL BE INSTALLED BY A LICENSED PLUMBER AND INSPECTED BY CODE ENFORCEMENT.
6. BACKFILL FOR UTILITY LINES SHALL BE COMPACTED TO 95% STANDARD PROCTOR DENSITY. ALL TRENCHES SHALL BE BACKFILLED WITH 3" 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.
7. 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 SHALL BE BACKFILLED WITH BACKFILLED MATERIAL PER GEOTECHNICAL REPORT RECOMMENDATIONS.
8. ALL WATER LINES SHALL MEET AWWA C900-75, PVC PRESSURE PIPE, PC 150.
9. ALL DUCTILE IRON FITTINGS SHALL BE OF THE MECHANICAL JOINT TYPE AND SHALL BE CLASS D, OR CLASS 250 ON SIZES 12" AND GREATER AND C-111-84. ALL FITTINGS WILL BE POLYWRAPPED (B.M.I.).
10. ALL WATER MAINS SHALL HAVE A MINIMUM COVER OF 42" OR SUFFICIENT EXISTING GROUND LEVEL OR FINISHED GRADE, WHICHEVER IS GREATER. TO THE REMAINDER OF THE TRENCH, THE COVER SHALL BE 36" MINIMUM.
11. FIRE HYDRANTS SHALL BE PLACED 3' FROM BACK OF CURB LOCATED AS SHOWN ON THE PLANS. GRADE-LOK HYDRANT LEAD.
12. FIRE HYDRANTS SHALL BE TOWN APPROVED.
13. ALL GATE VALVES SHALL BE TOWN APPROVED.
14. 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.
15. 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 THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE INCLUDED IN THE BID PRICE THEREOF IN ADDITION TO RESTRAINING GLANDS - "MEGA-LUG" OR APPROVED EQUAL.
16. EMBEDMENT PVC WATER MAIN SHALL COMPLY WITH THE TOWN DETAILS AND SPECIFICATIONS.
17. ALL WATER METERS TO BE PLACED IN A NON-TRAFFIC AREA.
18. FIRE SPRINKLER LINE SHALL BE SIZED AND INSTALLED BY A STATE LICENSED FIRE SPRINKLER CONTRACTOR.
19. 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 GREATER.
20. REFER TO MECHANICAL PLANS FOR EXACT WATER AND SEWER SERVICE LOCATIONS.
21. ALL SANITARY SEWER LINES SHALL MEET ASTM-D3034, OR SPP353 AND SPOUT JOINTS. PIPE SHALL HAVE INTERGRAL WALL BELL.
22. ALL WATER SERVICES SHALL BE TYPE "K" COPPER PIPE.

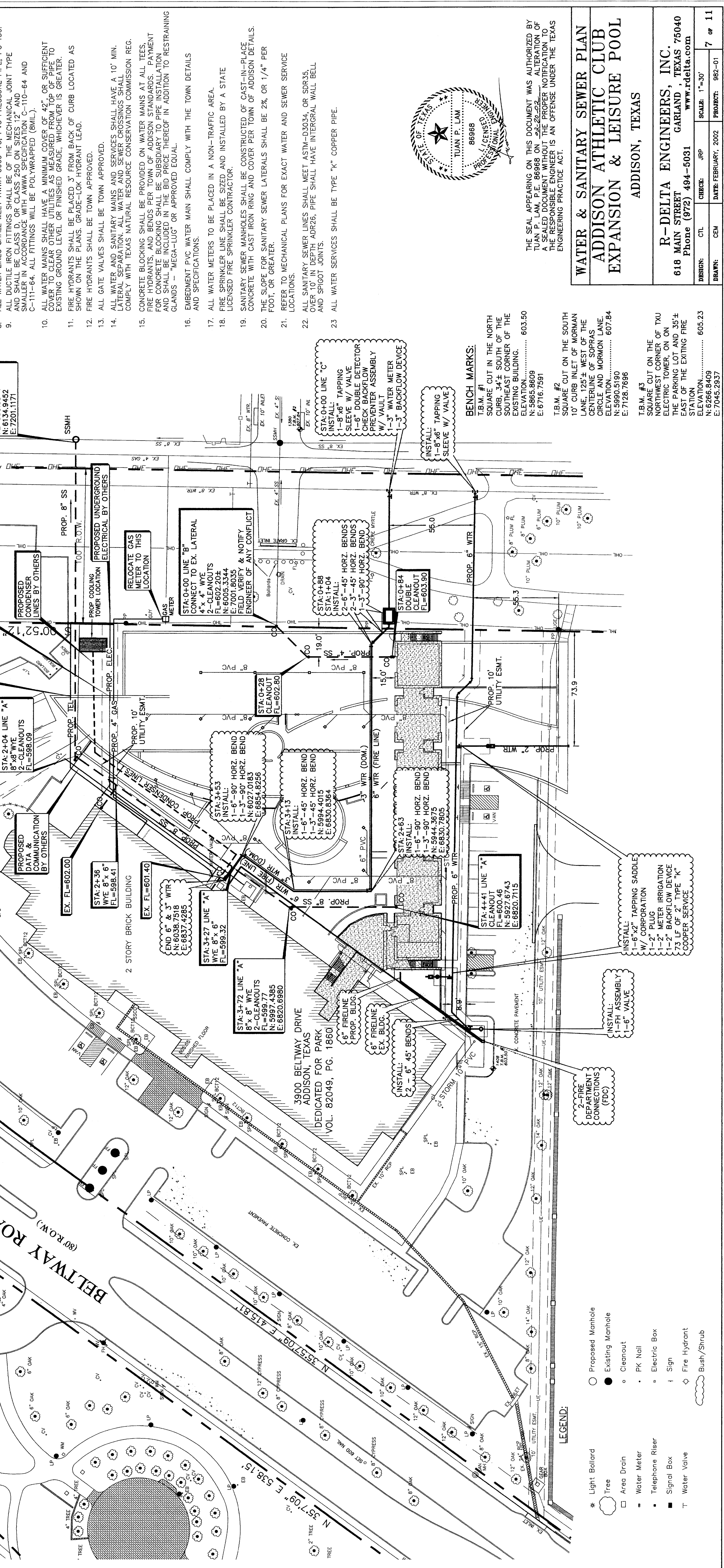
**BENCH MARKS:**

T.B.M. #1  
 SQUARE CUT IN THE NORTH CORNER OF THE SOUTH EAST CORNER OF THE EXISTING BUILDING..... 603.50  
 ELEVATION..... 603.50  
 N: 5865.9609  
 E: 6716.7581

T.B.M. #2  
 SQUARE CUT ON THE SOUTH CORNER OF THE NORTH CORNER OF THE CENTERLINE OF SOPRAS CIRCLE AND NORMAN LANE. ELEVATION..... 607.84  
 N: 5865.9609  
 E: 7128.7886

T.B.M. #3  
 SQUARE CUT ON THE CENTERLINE OF THE ELECTRIC TOWER ON ON THE PARKING LOT AND 35± EAST OF THE EXISTING FIRE TOWER. ELEVATION..... 605.23  
 N: 6266.8409  
 E: 7045.2937

**CAUTION!!! UTILITIES IN AREA. CONTRACTOR SHALL CONTACT UTILITY COMPANIES 48 HOURS PRIOR TO ANY EXCAVATION. DIG TESS 1-800-545-6005 LONESTAR NOTIFICATION 1-800-669-8344**



**LEGEND:**

- Light Bollard
- Tree
- Area Drain
- Water Meter
- Telephone Riser
- Signal Box
- Water Valve
- Proposed Manhole
- Existing Manhole
- Cleanout
- PK Nail
- Electric Box
- Sign
- Fire Hydrant
- Bush/Shrub

**ADDISON ATHLETIC CLUB EXPANSION & LEISURE POOL**

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

**ADDISON, TEXAS**

DESIGNER: CTL CHECK: JRP DATE: FEBRUARY, 2002 PROJECT: 892-01  
 DRAWN: CEM SCALE: 1"=30' 7 of 11

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3000 BELTWAY DRIVE  
 ADDISON, TEXAS  
 DEDICATED FOR PARK  
 VOL. 82049, PG. 1860

2 STORY BRICK BUILDING  
 3 STORY BUILDING

2- FIRE DEPARTMENT CONNECTIONS (000)

INSTALL:  
 1-1" PH ASSEMBLY  
 1-6" x 2" TAPPING SADDLE  
 W/ CORPORATION  
 1-2" PLUG  
 1-2" METER BRASS  
 73.3 LF OF 2" TYPE "K" COPPER SERVICE