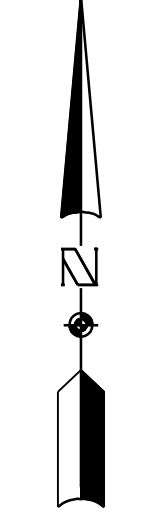


CONSTRUCTION MATERIALS AND METHODS SHALL BE PER NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENTS (NCTCOG) 3RD EDITION AND IN STRICT ACCORDANCE WITH THE CITY OF ROCKWALL'S STANDARD DETAILS.

2.059 ACRES

89,693 SQ.FT.  
RACETRAC PETROLEUM, INC  
VOL. 585, PG. 80  
D.R.R.C.T.

SCALE 1" = 20'



**HAMILTON**  
**DUFFY, PC**  
CONSULTING  
CIVIL & ENVIRONMENTAL ENGINEERS - PLANNERS - CONSTRUCTION MANAGERS  
8241 MID-CITIES BLVD. - NORTH RICHLAND HILLS, TEXAS 76180-4712  
PHONE (817) 268-0408 FAX (817) 284-8408

SITE CONSTRUCTION PLANS

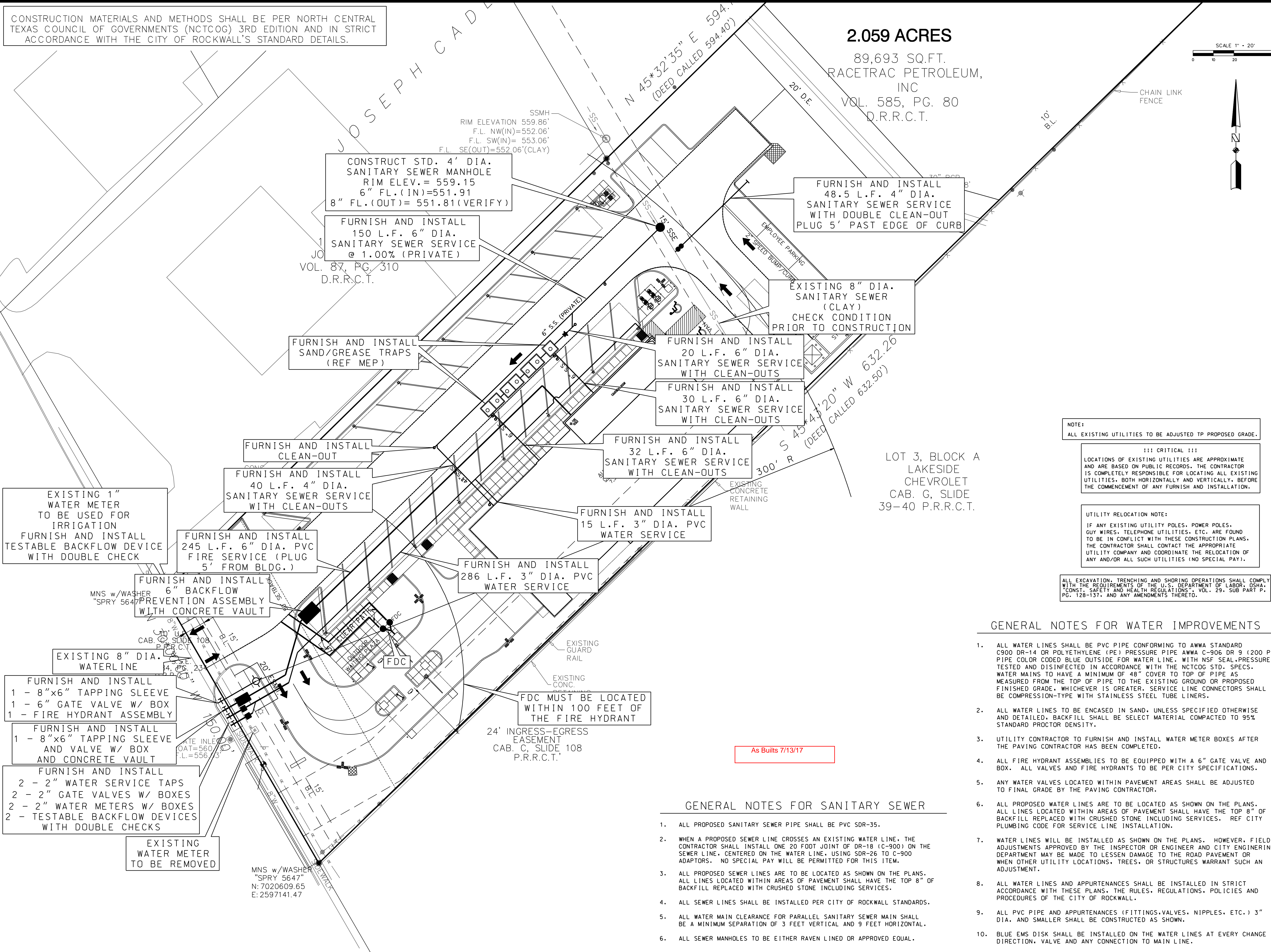
CARMEL CAR WASH  
2003 SOUTH GOLIAD STREET  
CITY OF ROCKWALL, TEXAS

UTILITY PLAN

**AS-BUILT**  
DRAWINGS  
THIS DOES NOT IMPLY A GROUND SURVEY. THESE DOCUMENTS WERE PREPARED FROM ORIGINAL DESIGN DRAWINGS AND CONSTRUCTION MODIFICATIONS NOTED BY CONTRACTOR.  
KEITH M. HAMILTON, P.E. DATE 7-13-17

NO.	REVISION	DATE	BY	CHECKED	DATE	DESIGNED	DRAWN	CHECKED	DATE	TEXAS REGISTRATION NO.
048-019 <td></td> <td>7/13/2017 <td></td> <td></td> <td></td> <td>K.M.H.</td> <td>J.B.E.</td> <td>K.M.H.</td> <td></td> <td>F-05260</td> </td>		7/13/2017 <td></td> <td></td> <td></td> <td>K.M.H.</td> <td>J.B.E.</td> <td>K.M.H.</td> <td></td> <td>F-05260</td>				K.M.H.	J.B.E.	K.M.H.		F-05260

SHEET C1.04



CONSTRUCT STD. 4' DIA. SANITARY SEWER MANHOLE RIM ELEV.= 559.15 6" FL.(IN)=551.91 8" FL.(OUT)= 551.81(VERIFY)

FURNISH AND INSTALL 150 L.F. 6" DIA. SANITARY SEWER SERVICE @ 1.00% (PRIVATE)

FURNISH AND INSTALL 48.5 L.F. 4" DIA. SANITARY SEWER SERVICE WITH DOUBLE CLEAN-OUT PLUG 5' PAST EDGE OF CURB

EXISTING 8" DIA. SANITARY SEWER (CLAY) CHECK CONDITION PRIOR TO CONSTRUCTION

FURNISH AND INSTALL 20 L.F. 6" DIA. SANITARY SEWER SERVICE WITH CLEAN-OUTS

FURNISH AND INSTALL 30 L.F. 6" DIA. SANITARY SEWER SERVICE WITH CLEAN-OUTS

FURNISH AND INSTALL 32 L.F. 6" DIA. SANITARY SEWER SERVICE WITH CLEAN-OUTS

FURNISH AND INSTALL 15 L.F. 3" DIA. PVC WATER SERVICE

FURNISH AND INSTALL 286 L.F. 3" DIA. PVC WATER SERVICE

FURNISH AND INSTALL 40 L.F. 4" DIA. SANITARY SEWER SERVICE WITH CLEAN-OUTS

FURNISH AND INSTALL 6" BACKFLOW PREVENTION ASSEMBLY WITH CONCRETE VAULT

FURNISH AND INSTALL 245 L.F. 6" DIA. PVC FIRE SERVICE (PLUG 5' FROM BLDG.)

EXISTING 1" WATER METER TO BE USED FOR IRRIGATION FURNISH AND INSTALL TESTABLE BACKFLOW CHECK WITH DOUBLE CHECK

EXISTING 8" DIA. WATERLINE

FURNISH AND INSTALL 1 - 8"x6" TAPPING SLEEVE 1 - 6" GATE VALVE W/ BOX 1 - FIRE HYDRANT ASSEMBLY

FURNISH AND INSTALL 1 - 8"x6" TAPPING SLEEVE AND VALVE W/ BOX AND CONCRETE VAULT

FURNISH AND INSTALL 2 - 2" WATER SERVICE TAPS 2 - 2" GATE VALVES W/ BOXES 2 - 2" WATER METERS W/ BOXES 2 - TESTABLE BACKFLOW DEVICES WITH DOUBLE CHECKS

EXISTING WATER METER TO BE REMOVED

FDC MUST BE LOCATED WITHIN 100 FEET OF THE FIRE HYDRANT

24' INGRESS-EGRESS EASEMENT CAB. C, SLIDE 108 P.R.R.C.T.

As Builts 7/13/17

NOTE:  
ALL EXISTING UTILITIES TO BE ADJUSTED TO PROPOSED GRADE.

!!! CRITICAL !!!  
LOCATIONS OF EXISTING UTILITIES ARE APPROXIMATE AND ARE BASED ON PUBLIC RECORDS. THE CONTRACTOR IS COMPLETELY RESPONSIBLE FOR LOCATING ALL EXISTING UTILITIES, BOTH HORIZONTALLY AND VERTICALLY, BEFORE THE COMMENCEMENT OF ANY FURNISH AND INSTALLATION.

UTILITY RELOCATION NOTE:  
IF ANY EXISTING UTILITY POLES, POWER POLES, GUY WIRES, TELEPHONE UTILITIES, ETC. ARE FOUND TO BE IN CONFLICT WITH THESE CONSTRUCTION PLANS, THE CONTRACTOR SHALL CONTACT THE APPROPRIATE UTILITY COMPANY AND COORDINATE THE RELOCATION OF ANY AND/OR ALL SUCH UTILITIES (NO SPECIAL PAY).

ALL EXCAVATION, TRENCHING AND SHORING OPERATIONS SHALL COMPLY WITH THE REQUIREMENTS OF THE U.S. DEPARTMENT OF LABOR, OSHA, CONSTRUCTION SAFETY AND HEALTH REGULATIONS, VOL. 29, SUB PART P, PG. 128-137, AND ANY AMENDMENTS THERETO.

GENERAL NOTES FOR WATER IMPROVEMENTS

- ALL WATER LINES SHALL BE PVC PIPE CONFORMING TO AWWA STANDARD C900 DR-14 OR POLYETHYLENE (PE) PRESSURE PIPE AWWA C-906 DR 9 (200 PSI) PIPE COLOR CODED BLUE OUTSIDE FOR WATER LINE. WITH NSF SEAL, PRESSURE TESTED AND DISINFECTED IN ACCORDANCE WITH THE NCTCOG STD. SPECS. WATER MAINS TO HAVE A MINIMUM OF 48" COVER TO TOP OF PIPE AS MEASURED FROM THE TOP OF PIPE TO THE EXISTING GROUND OR PROPOSED FINISHED GRADE, WHICHEVER IS GREATER. SERVICE LINE CONNECTORS SHALL BE COMPRESSION-TYPE WITH STAINLESS STEEL TUBE LINERS.
- ALL WATER LINES TO BE ENCASED IN SAND, UNLESS SPECIFIED OTHERWISE AND DETAILED. BACKFILL SHALL BE SELECT MATERIAL COMPACTED TO 95% STANDARD PROCTOR DENSITY.
- UTILITY CONTRACTOR TO FURNISH AND INSTALL WATER METER BOXES AFTER THE PAVING CONTRACTOR HAS BEEN COMPLETED.
- ALL FIRE HYDRANT ASSEMBLIES TO BE EQUIPPED WITH A 6" GATE VALVE AND BOX. ALL VALVES AND FIRE HYDRANTS TO BE PER CITY SPECIFICATIONS.
- ANY WATER VALVES LOCATED WITHIN PAVEMENT AREAS SHALL BE ADJUSTED TO FINAL GRADE BY THE PAVING CONTRACTOR.
- ALL PROPOSED WATER LINES ARE TO BE LOCATED AS SHOWN ON THE PLANS. ALL LINES LOCATED WITHIN AREAS OF PAVEMENT SHALL HAVE THE TOP 8" OF BACKFILL REPLACED WITH CRUSHED STONE INCLUDING SERVICES. REF CITY PLUMBING CODE FOR SERVICE LINE INSTALLATION.
- WATER LINES WILL BE INSTALLED AS SHOWN ON THE PLANS. HOWEVER, FIELD ADJUSTMENTS APPROVED BY THE INSPECTOR OR ENGINEER AND CITY ENGINEERING DEPARTMENT MAY BE MADE TO LESSEN DAMAGE TO THE ROAD PAVEMENT OR WHEN OTHER UTILITY LOCATIONS, TREES, OR STRUCTURES WARRANT SUCH AN ADJUSTMENT.
- ALL WATER LINES AND APPURTENANCES SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THESE PLANS, THE RULES, REGULATIONS, POLICIES AND PROCEDURES OF THE CITY OF ROCKWALL.
- ALL PVC PIPE AND APPURTENANCES (FITTINGS, VALVES, NIPPLES, ETC.) 3" DIA. AND SMALLER SHALL BE CONSTRUCTED AS SHOWN.
- BLUE EMS DISK SHALL BE INSTALLED ON THE WATER LINES AT EVERY CHANGE IN DIRECTION, VALVE AND ANY CONNECTION TO MAIN LINE.

GENERAL NOTES FOR SANITARY SEWER

- ALL PROPOSED SANITARY SEWER PIPE SHALL BE PVC SDR-35.
- WHEN A PROPOSED SEWER LINE CROSSES AN EXISTING WATER LINE, THE CONTRACTOR SHALL INSTALL ONE 20 FOOT JOINT OF DR-18 (C-900) ON THE SEWER LINE, CENTERED ON THE WATER LINE, USING SDR-26 TO C-900 ADAPTORS. NO SPECIAL PAY WILL BE PERMITTED FOR THIS ITEM.
- ALL PROPOSED SEWER LINES ARE TO BE LOCATED AS SHOWN ON THE PLANS. ALL LINES LOCATED WITHIN AREAS OF PAVEMENT SHALL HAVE THE TOP 8" OF BACKFILL REPLACED WITH CRUSHED STONE INCLUDING SERVICES.
- ALL SEWER LINES SHALL BE INSTALLED PER CITY OF ROCKWALL STANDARDS.
- ALL WATER MAIN CLEARANCE FOR PARALLEL SANITARY SEWER MAIN SHALL BE A MINIMUM SEPARATION OF 3 FEET VERTICAL AND 9 FEET HORIZONTAL.
- ALL SEWER MANHOLES TO BE EITHER RAVEN LINED OR APPROVED EQUAL.