

LEGEND

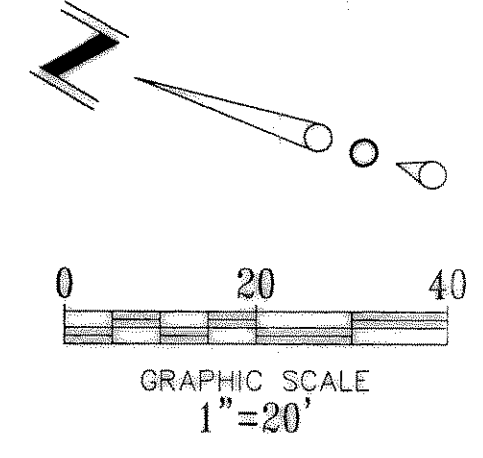
- EXISTING CURB
- PROPOSED CURB
- PROPOSED SANITARY SEWER LINE
- - - EXISTING SANITARY SEWER LINE
- PROPOSED WATER LINE
- - - EXISTING WATER LINE
- PROPOSED STORM SEWER
- - - EXISTING STORM SEWER
- ⊠ PROPOSED CATCH BASIN

WATER GENERAL NOTES:

- ALL WATER SERVICES SHALL BE 1 INCH MINIMUM TYPE STOP, AND METER BOX, UNLESS OTHERWISE INDICATED ON THE PLANS. ANGLE STOPS WILL BE LOCATED WITHIN THE METER BOX AND FACING TOWARD THE LOT PER CITY OF ROCKWALL CONSTRUCTION DETAILS.
- EACH METER BOX WILL BE LOCATED ADJACENT TO THE CURB AND INSTALLED AFTER STREET PAVEMENT HAS BEEN COMPLETED AND CURBS BACKFILLED. METER BOX SHALL BE DFW PLASTICS DFW1818F8BL OR EQUAL WITH A 2 METAL LOCATOR PLATE IN THE RECESS FOR 3/4" METERS.
- ALL 6-INCH, 8-INCH AND 12-INCH WATER MAINS TO BE AWWA C900 PVC PIPE CLASS 200. ALL WATER LINE FITTINGS TO BE DUCTILE IRON. ALL VALVES SHALL BE AWWA APPROVED RESILIENT WEDGE GATE VALVES. MINIMUM COVER SHALL BE 3.5 FEET FOR 6-INCH LINES, 4.0 FEET FOR 8-INCH LINES AND 4.5 FEET FOR 12-INCH LINES.
- ALL WATER SERVICES SHALL BE LOCATED IN THE CENTER OF THE LOT.
- FIRE HYDRANTS WILL BE PLACED 2 TO 3 FEET FROM BACK OF CURB UNLESS OTHERWISE INDICATED ON THE PLANS, OR AS REQUIRED TO CLEAR SIDEWALKS.
- FIRE HYDRANTS SHALL BE THREE WAY BREAKAWAY TYPE NO LESS THAN 5-1/4 INCHES IN SIZE AND MUST CONFORM TO AWWA SPECIFICATIONS C-502. THEY SHALL BE MUELLER BRONZE TO BRONZE MOVING PARTS. TWO 2-1/2" NPT HOSE CONNECTIONS ARE REQUIRED. THE 4 INCH STEAMER CONNECTION SHALL BE 4.800 PITCH DIAMETER WITH 4 THREADS PER INCH. THE OPERATING NUT SHALL BE 1-1/2" INCH P TO F PENTAGON NUT, OPEN LEFT. MECHANICAL JOINT CONNECTION IS REQUIRED.
- A BLUE STIMSONITE, FIRE-LITE REFLECTOR (OR APPROVED EQUAL) SHALL BE PLACED IN THE CENTER OF THE STREET OPPOSITE EACH FIRE HYDRANT. THE FIRE HYDRANT SHALL BE PAINTED WITH TWO COATS OF RUST-OLEUM #1510 CHROME PAINT OR APPROVED EQUAL, AND TWO COATS OF PRIMER. BONNET TO FLANGE AND NOZZLE CAPS OF FIRE HYDRANT TO BE PAINTED WITH 2 COATS OF TNEEC SAFETY PAINT SERIES 2H INCH YELLOW; OVER 6 INCH BLUE).
- INSTALL 2"x2"x4" THICK, CONCRETE PAD AROUND ALL WATER VALVES OUTSIDE OF CONCRETE PAVEMENT.
- STAINLESS STEEL VALVE EXTENSIONS SHALL BE PROVIDED ON ALL VALVES WITH OPERATING NUTS GREATER THAN 5 GROUND OR PAVING GRADE.
- ALL 2" BLOW-OFF (FLUSH) VALVES SHALL BE PROVIDED IN ACCORDANCE WITH CITY OF ROCKWALL DETAIL.
- BOLTS AND NUTS FOR MECHANICAL JOINTS WILL BE OF A HIGH-STRENGTH LOW-ALLOY CORROSION RESISTANT STEEL CONFORMING TO ASTM A325 (TYPE 3).
- ALL HDPE WATER SERVICE LINES SHALL BE EMBEDDED WITH 6 OVER THE TOP OF THE PIPE; FROM THE WATER MAIN TO THE METER.
- ALL BENDS MUST BE RESTRAINED. (MEGALUG)
- FIRE HYDRANTS TO HAVE 5' CLEARANCE AROUND.

SANITARY SEWER GENERAL NOTES:

- ALL SANITARY SEWER PIPE SHALL BE PVC ASTM DESIGNATION D3034 UP THROUGH 12" IN DIAMETER SHALL BE DESIGNATED AWWA C150. OTHER PIPE SHALL BE SUBJECT TO APPROVAL BY THE CITY ENGINEER.
- ALL SANITARY SEWER LATERALS SHALL INCLUDE 4 FEET DOWNSTREAM FROM THE WATER SERVICE ON EACH LOT AND EXTEND 10 PRIVATE PROPERTY, UNLESS OTHERWISE INDICATED ON PLANS. SEWER LATERALS SHALL BE LAID ON A SLOPE OF +2.00% FROM THE MAIN LINE TO THE STREET RIGHT-OF-WAY.
- ALL SANITARY SEWERS SHALL BE TESTED BY PULLING A MANDREL, AIR PRESSURE TEST, AND TELEVISION FILMING.
- ALL SANITARY SEWER MANHOLES WITHIN FLOOD PLAINS OR FLOOD PRONE AREAS REQUIRE TYPE "S" MANHOLE LIDS.
- ALL MANHOLES SHALL BE VACUUM TESTED WHERE A 10" MERCURY VACUUM IS DEVELOPED. THE AIR VACUUM SHALL THAN BE MONITORED FOR A TEST PERIOD OF 2 MINUTES. THE ALLOWANCE DROP IN AIR VACUUM SHALL BE NO GREATER THAN 1" MERCURY OVER THE TEST PERIOD.



CONNECT 6" PVC TO EXISTING MANHOLE RIM=470.04
 FL 6" (IN)=466.09
 FL EX. 8" (OUT)=466.02

INSTALL:
 1-8"x8" TAPPING SLEEVE
 1-8" TAPPING VALVE
 1-1" WATER METER (DOMESTIC) W/METER BOX AND BACKFLOW PREVENTER AND DOUBLE CHECK
 1-1" WATER METER (IRRIGATION) W/METER BOX AND BACKFLOW PREVENTER AND DOUBLE CHECK

INSTALL 4 VERTICAL 8" 45° BENDS TO RELOCATE EX. WATER BELOW PROPOSED SANITARY SEWER IF NEEDED FOR INSTALLATION OF STORM WATER PIPING.

NOTE: CONTRACTOR TO VERIFY EXISTING UTILITIES PRIOR TO INSTALLATION OF PROPOSED ITEMS. CONTACT ENGINEER IF CONFLICT IS OBSERVED.

CAUTION!!!
 CALL: TEXAS ONE CALL @ 1-800-245-4545
 48 HRS PRIOR TO CONSTRUCTION.

BENCHMARK

BENCHMARK: CITY OF ROCKWALL MONUMENT #10, ON MEDIAN OF NORTH LAKESHORE DRIVE NORTH OF INTERSECTION OF NORTH LAKESHORE DRIVE AND NORTH ALAMO STREET, APPROXIMATELY 168 FEET NORTH OF SOUTH END OF MEDIAN / BACK OF CURB.
 ELEVATION=524.786'

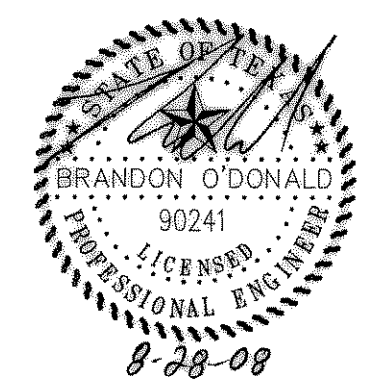
CITY OF ROCKWALL MONUMENT #11, ON MEDIAN OF NORTH LAKESHORE DRIVE NORTH OF HAVEN HILL COURT, AND SOUTH OF STONEBROOK ROAD, 2.3 FEET NORTHWEST OF SOUTH END OF MEDIAN / BACK OF CURB
 ELEVATION=518.832'

!!! CAUTION !!!
UNDERGROUND UTILITIES

EXISTING UTILITIES AND UNDERGROUND FACILITIES INDICATED ON THESE PLANS HAVE BEEN LOCATED FROM REFERENCE INFORMATION SUPPLIED BY VARIOUS OWNERS OF THE FACILITIES. THE ENGINEER DOES NOT ACCEPT THE RESPONSIBILITY FOR THE UTILITY LOCATIONS SHOWN. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY BOTH HORIZONTALLY AND VERTICALLY THE LOCATION OF ALL EXISTING UTILITIES AND UNDERGROUND FACILITIES PRIOR TO CONSTRUCTION, TO TAKE NECESSARY PRECAUTIONS IN ORDER TO PROTECT ALL FACILITIES ENCOUNTERED, AND TO NOTIFY THE ENGINEER PROMPTLY OF ALL CONFLICTS OF THE WORK WITH EXISTING FACILITIES. THE CONTRACTOR SHALL PRESERVE AND PROTECT ALL EXISTING UTILITIES FROM DAMAGE DURING CONSTRUCTION. ANY DAMAGE BY THE CONTRACTOR TO EXISTING UTILITIES SHALL BE REPAIRED BY THE CONTRACTOR AT HIS OR HER EXPENSE.

AS-BUILT

NOTE:
 THESE PLANS HAVE BEEN REVISED TO CONFORM WITH CONSTRUCTION RECORDS PROVIDED BY CONTRACTOR.



WATER & SANITARY SEWER PLAN
CHASE BANK-S.H. 66 & LAKE SHORE DRIVE
 CITY OF ROCKWALL
 ROCKWALL COUNTY, TEXAS

O'DONALD ENGINEERING LLC

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DATE	08/28/08
SCALE	1"=20'
JOB NO.	0007012
SHEET	C7

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