GENERAL NOTES

- 1. ALL WATER LINE STATIONING REFERS TO SURVEY CENTERLINE STATIONING.
- 2. ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER CONTRACT SHALL, EXCEPT AS OTHERWISE STATED OR PROVIDED HEREON, BE CONSTRUCTED IN ACCORDANCE WITH THE NEW MEXICO STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1987 EDITION, AS PREPARED BY THE NEW MEXICO CHAPTER, AMERICAN PUBLIC WORKS ASSOCIATION AND IN ACCORDANCE WITH THE CONTRACT DOCUMENTS FOR GOLF COURSE ROAD WATERLINE RECONSTRUCTION DATED APRIL 1990.
- 3. CONTRACTOR SHALL CONDUCT HIS OPERATIONS IN A MANNER WHICH WILL MINIMIZE INTERFERENCE WITH LOCAL TRAFFIC. CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE LAWS, ORDINANCES, RULES, REGULATIONS, AND ORDERS OF ANY PUBLIC BODY HAVING JURISDICTION FOR THE SAFETY OF PERSONS OR PROPERTY, AND TO PROTECT THEM FROM DAMAGE, INJURY, OR LOSS. CONTRACTOR SHALL ERECT AND MAINTAIN, AS REQUIRED BY THE CONDITIONS AND PROGRESS OF THE WORK, ALL NECESSARY SAFEGUARDS FOR SAFETY CONTINUOUSLY AND NOT LIMITED TO NORMAL WORKING HOURS, THROUGHOUT THE DURATION OF THE PROJECT.
- 4. PRIOR TO CUTTING INTO OR BORING UNDER EXISTING ASPHALT PAVEMENT IN THE STREETS, THE CONTRACTOR SHALL OBTAIN THE NECESSARY PERMITS FROM THE CITY ENGINEER OF RIO RANCHO, NEW MEXICO.
- 5. THE CONTRACTOR AGREES THAT HE SHALL ASSUME THE SOLE AND COMPLETE RESPONSIBILITY FOR THE JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY, AND HOLD HARMLESS THE OWNER & ENGINEER FROM ANY AND ALL LIABILITY REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR ENGINEER.
- 6. Two (2) working days prior to any excavation, Contractor must contact Line Locating Service, 260-1990, for Location of Existing utilities. Rio Rancho cable television should be contacted separately at 892-5114 for Location of their facilities.
- 7. ALL EXISTING WATERLINES ARE BELIEVED TO BE ASBESTOS
 CEMENT PIPE. PRIOR TO ORDERING TRANSITION COUPLINGS,
 THE CONTRACTOR SHALL EXPOSE THE WATERLINE AND VERIFY THE
 PIPE'S OUTSIDE DIAMETER AND MATERIAL TYPE. TRANSITION
 COUPLINGS SHALL BE CONSIDERED INCIDENTAL TO THE WATERLINE
 CONSTRUCTION AND NO SEPARATE PAYMENT SHALL BE MADE FOR
 THEIR INSTALLATION.
- 8. CONTRACTOR WARRANTS BY THE SUBMISSION OF HIS BID FOR THE WORK THAT HE HAS INSPECTED THE PROJECT SITE AND IS CAPABLE, WITHOUT EXTRA WORK CHARGES, OF BUILDING THE WATERLINE AND APPURTENANCES TO THE LINES, GRADES, AND DETAILS PRESENTED IN THESE PLANS.
- 9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING, PRESER-VING, AND RECONNECTING ALL WATER SERVICE LINES USING APPROVED MATERIALS LISTED ON THE ALBUQ. UTILITIES CORP. STD. DWG. W-4 INCLUDED ON SHEET 9 OF THESE PLANS. RECONNECTIONS AND TRANSFERS SHALL BE PAID FOR IN ACCORDANCE WITH THE UNIT PRICE BID AMOUNT ESTABLISHED ON THE BID PROPOSAL. ANY CONNECTIONS DAMAGED WHILE PERFORMING THE WORK UNDER THIS PROJECT SHALL BE REPLACED AT NO ADDITIONAL COST TO THE OWNER.
- 10. CONTRACTOR SHALL SUPPORT ALL EXISTING, UNDERGROUND UTILITY LINES WHICH BECOME EXPOSED DURING CONSTRUCTION. PAYMENT FOR SUPPORTING WORK SHALL BE INCIDENTAL TO WATERLINE COST.
- 11. PROPOSED WATERLINE MATERIALS SHALL BE EITHER PVC PIPE MEETING AWWA C900 REQUIREMENTS (6"-12") OR DUCTILE IRON PIPE, THICKNESS CLASS 50 (6"-16").
- 12. THE CONTRACTOR SHALL CLEAN ALL SEDIMENT AND DEBRIS FROM THE EXISTING CULVERTS SHOWN TO BE REMOVED AND REPLACED. SHOULD A CULVERT NOT BE SUITABLE FOR RE-USE, IT SHALL BE REPLACED WITH A NEW CORRUGATED METAL PIPE CULVERT AT NO ADDITIONAL EXPENSE TO THE OWNER.
- 13. THE EXISTING WATERLINE & APPURTENANCES SHALL BE REMOVED & DISPOSED OF AS NECESSARY TO INSTALL THE NEW WATERLINE. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE WATERLINE CONSTRUCTION.

GOLF COURSE ROAD

WATERLINE RECONSTRUCTION

PREPARED FOR

ALBUQUERQUE UTILITIES CORPORATION

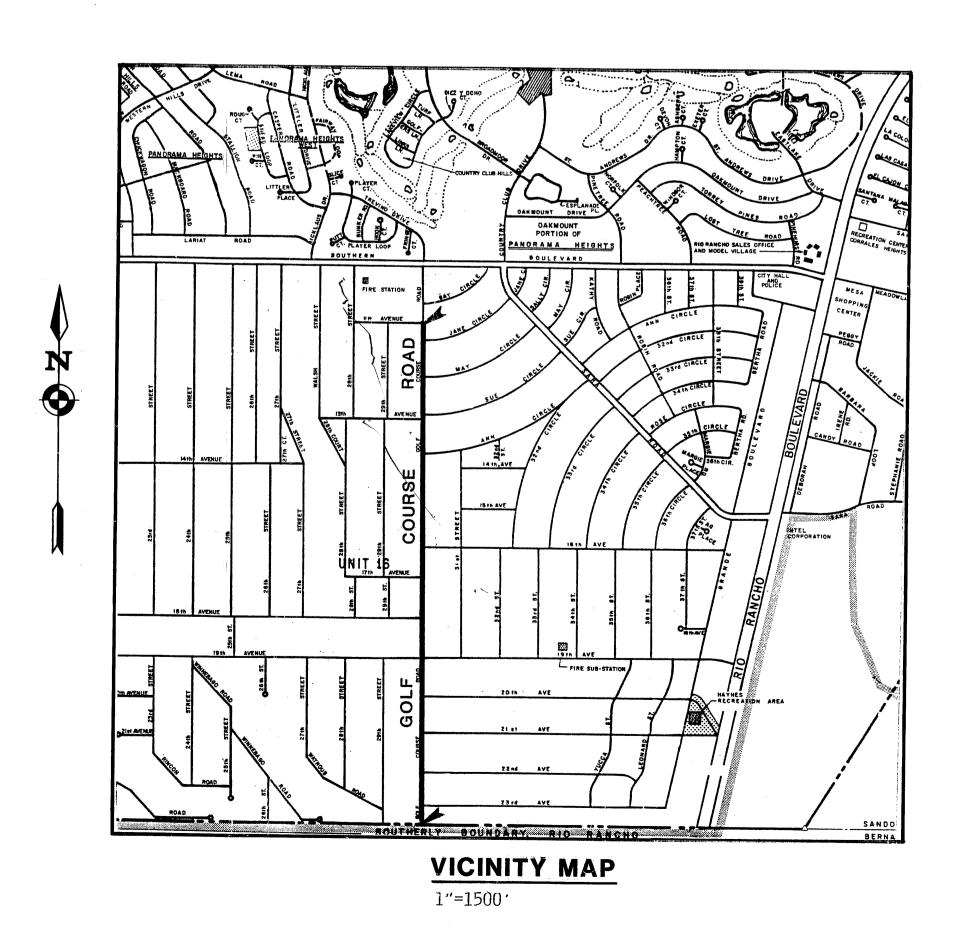
RIO RANCHO NEW MEXICO

APRIL, 1990

PLANS PREPARED BY
ISAACSON & ARFMAN, P.A.
128 MONROE STREET, NE
ALBUQUERQUE, NM 87108
(505) 268-8828

WARNING - EXISTING UTILITY LINE LOCATIONS ARE SHOWN IN AN APPROXIMATE MANNER ONLY, AND SUCH LINES MAY EXIST WHERE NONE ARE SHOWN. THE LOCATION OF ANY SUCH EXISTING LINES IS BASED UPON INFORMATION PROVIDED BY THE UTILITY COMPANY, THE OWNER, OR BY OTHERS, AND THE INFORMATION MAY BE INCOMPLETE OR MAY BE OBSOLETE BY THE TIME CONSTRUCTION COMMENCES.

THE ENGINEER HAS UNDERTAKEN NO FIELD VERIFICATION OF THE LOCATION, DEPTH, SIZE, OR TYPE OF EXISTING UNDERGROUND UTILITY LINES, MAKES NO REPRESENTATION PERTAINING THERETO, AND ASSUMES NO RESPONSIBILITY OR LIABILITY THEREFOR. THE CONTRACTOR SHALL INFORM ITSELF OF THE LOCATION OF ANY UTILITY LINE IN OR NEAR THE AREA OF THE WORK IN ADVANCE OF AND DURING EXCAVATION WORK. THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY AND ALL DAMAGE CAUSED BY ITS FAILURE TO LOCATE, IDENTIFY, AND PRESERVE ANY AND ALL EXISTING UTILITIES. THE CONTRACTOR SHALL COMPLY WITH STATE STATUTES, MUNICIPAL AND LOCAL ORDINANCES, RULES AND REGULATIONS PERTAINING TO THE LOCATION OF THESE LINES AND FACILITIES, IN PLANNING AND CONDUCTING EXCAVATION, WHETHER BY CALLING OR NOTIFYING THE UTILITIES, COMPLYING WITH "BLUE STAKES" PROCEDURES, OR OTHERWISE.



DRAWING INDEX

SHEET NO. TITLE

COVER SHEET

WATER VALVE SHUT-OFF PLAN

3-8 PLAN & PROFILE SHEETS

WATERLINE DETAILS

RECORD DRAWING

WARNING

This is part of a record document. Record documents are based on reports submitted by others. Engineers cannot assure nor assume any responsibility or liability for the accuracy of record documents. Users of record documents are cautioned and advised to obtain independent verification of actual conditions.



APPROVED FOR CONSTRUCTION

Calvin D. aug ALBUQUERQUE UTILITIES CORP.

5-24-90 Date

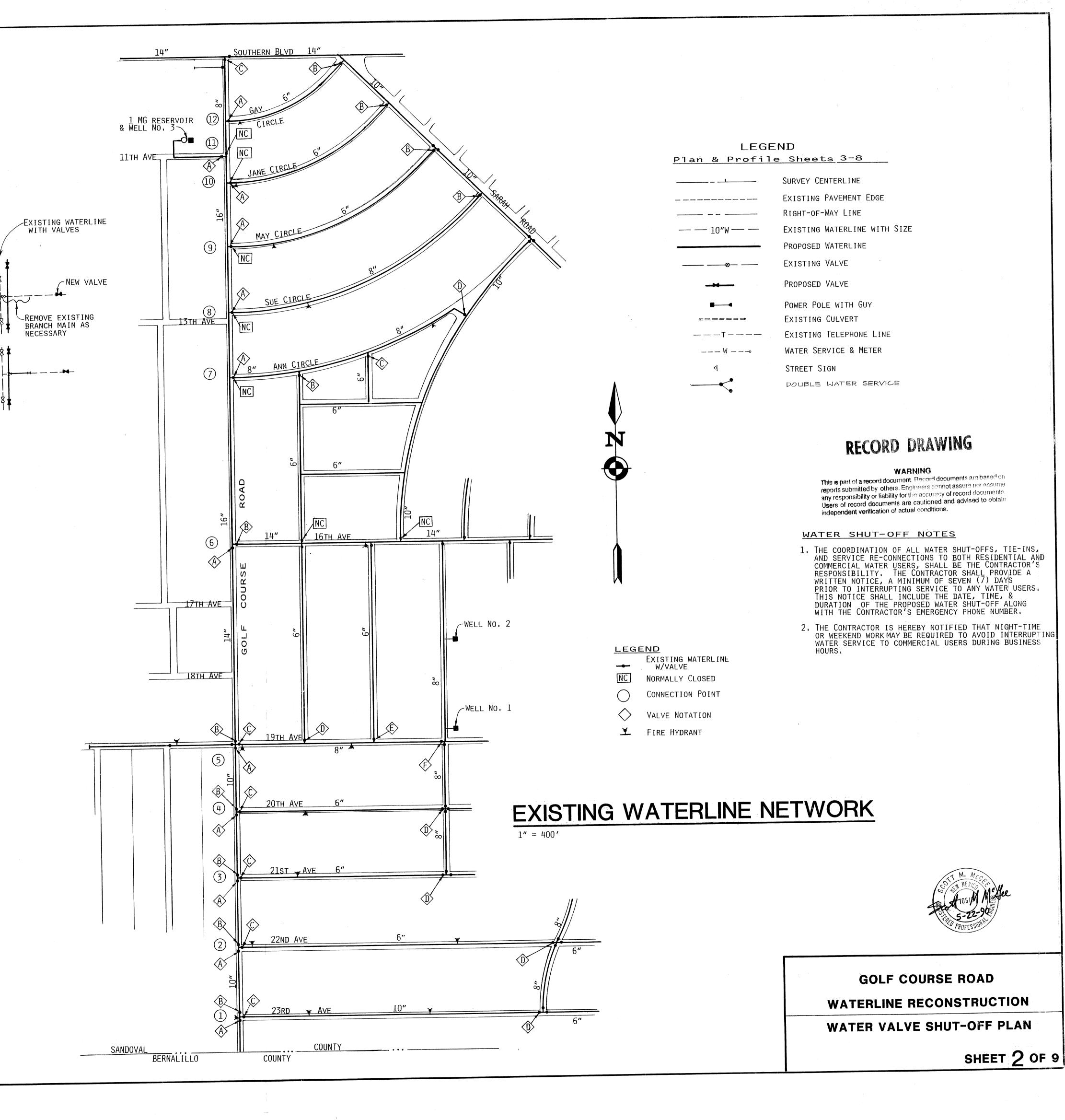
3-8 & C-8

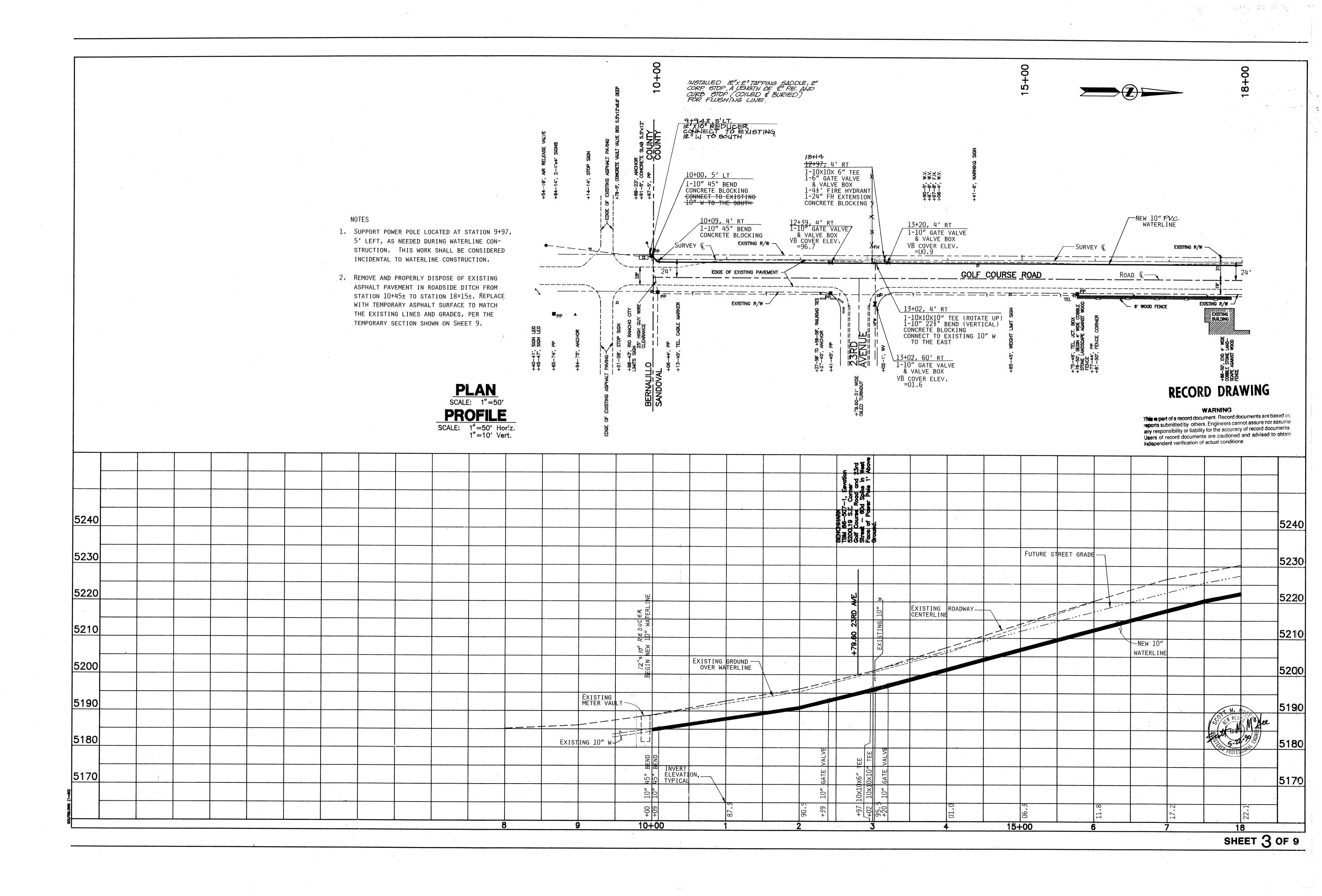
CONNECTIONS

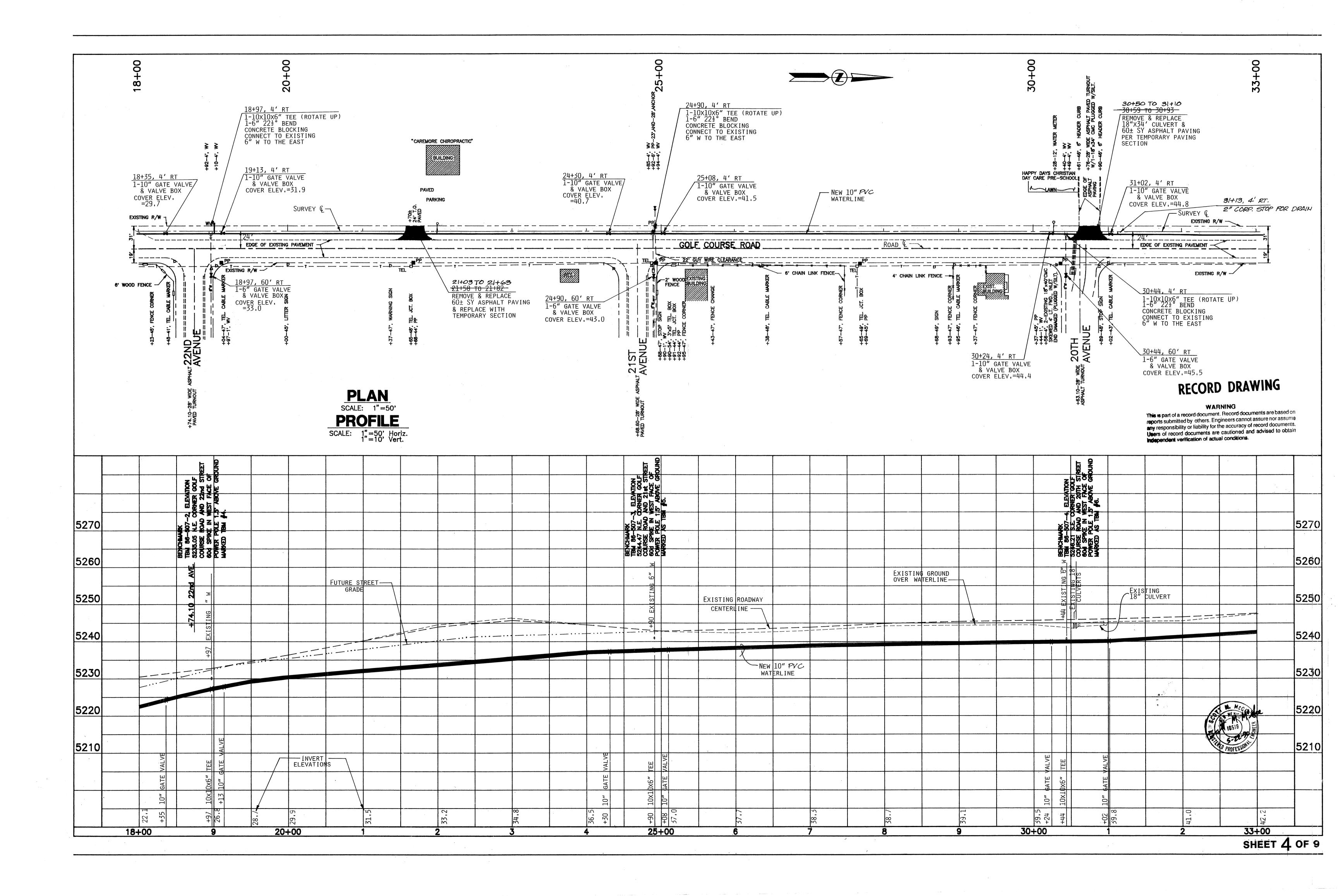
1.-4. BEFORE CONSTRUCTING THE NEW WATERLINE IN GOLF COURSE ROAD, THE CONTRACTOR SHALL FIRST INSTALL THE NEW 6" (10" IN 23RD AVENUE WATERLINE) GATE VALVES SHOWN 60 FEET RIGHT OF THE SURVEY CENTERLINE. EXISTING VALVES LABELED "C" AND "D" SHALL BE SLOWLY CLOSED TO ISOLATE THE BRANCH MAINS. AFTER THE NEW VALVE HAS BEEN INSTALLED IN THE OPEN POSITION, VALVES "C" AND "D" SHALL BE SLOWLY RE-OPENED, USING EXISTING FIRE HYDRANTS TO FLUSH THE LINE. TO MINIMIZE WATER SERVICE DISRUPTION, THESE VALVE INSERTIONS SHALL NOT BE PERFORMED CONCURRENTLY.

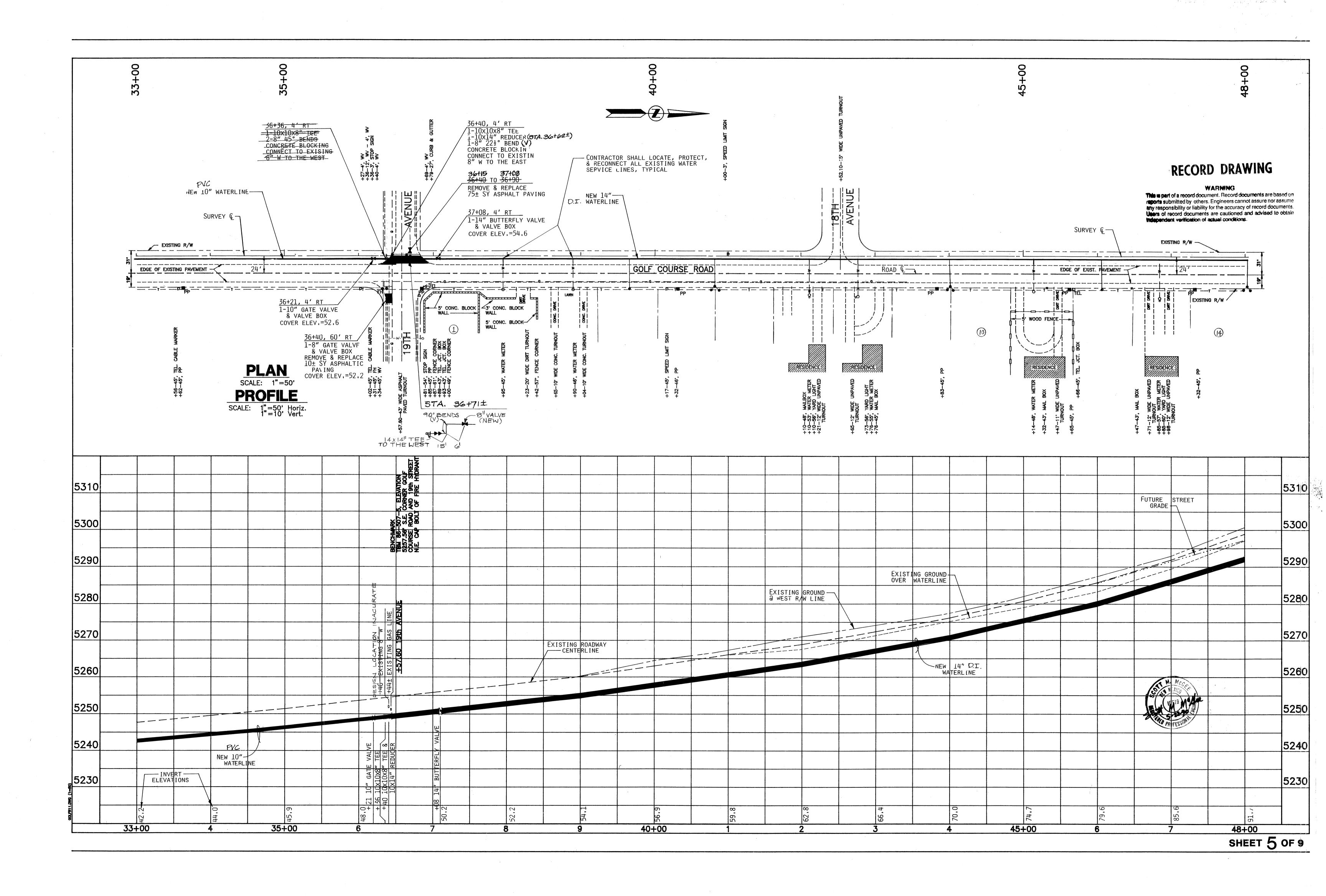
ONCE THE NEW WATERLINE HAS BEEN INSTALLED, THE CONTRACTOR SHALL ACCOMPLISH THE CONNECTIONS TO THE EXISTING BRANCH MAINS AS FOLLOWS:

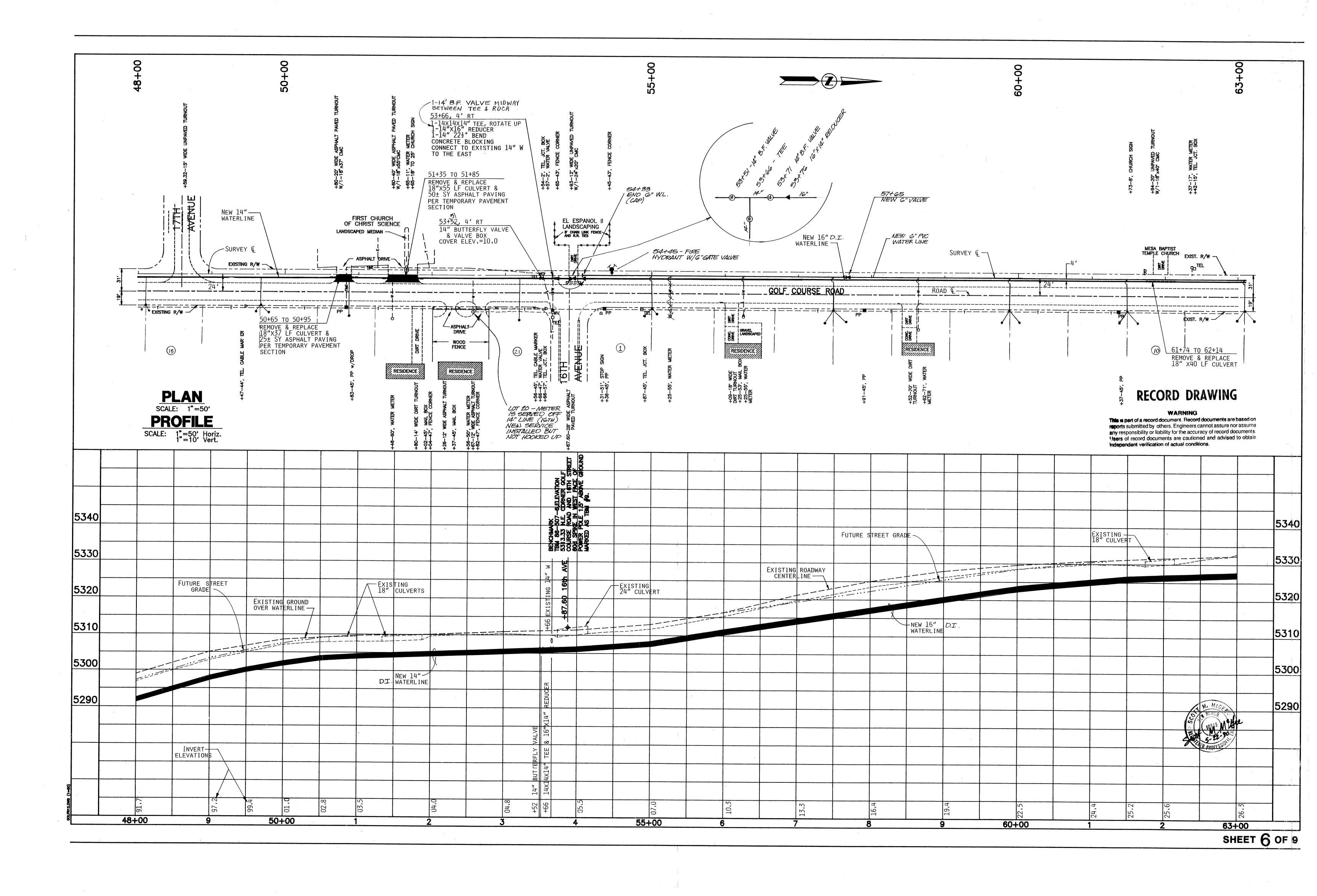
- SLOWLY CLOSE VALVES "A" AND "B" ALONG WITH THE NEWLY INSTALLED VALVE LOCATED 60 FEET RIGHT OF THE SURVEY (L.
- CONNECT THE NEW WATERLINE TO THE BRANCH MAIN RUNNING EAST PER THE CONNECTION DETAIL ON SHEET 9 & AS SHOWN AT THE RIGHT.
- WHEN WORKING FROM THE SOUTH (NORTH), SLOWLY OPEN THE NEW VALVE INSTALLED IN THE GOLF COURSE ROAD WATERLINE LOCATED SOUTH (NORTH) OF THE CONNECTION POINT, ONLY AFTER CLOSING THE NEW VALVE LOCATED NORTH (SOUTH) OF THE CONNECTION POINT BEYOND WHICH A MINIMUM OF TWO LENGTHS OF PIPE SHALL BE INSTALLED AND COMPLETELY BACKFILLED.
- 5. EXISTING VALVES "C", "D", "E", & "F" SHALL BE SLOWLY CLOSED PRIOR TO INSTALLING THE NEW 8" GATE VALVE IN 19TH AVENUE, SHOWN 60 FEET EAST OF THE SURVEY CENTERLINE. THE STEPS OUTLINED ABOVE SHALL THEN BE PERFORMED USING REQUIRED FITTINGS TO COMPLETE THE CONNECTIONS TO EXISTING BRANCH MAINS RUNNING BOTH EAST AND WEST. THE PROPOSED WATER SHUT-OFF SHALL BE COORDINATED WITH PERSONNEL AT THE LDS CHURCH TO MINIMIZE THE IMPACT TO THEIR FACILITY.
- 6. & 11. THE 16" WATERLINE SERVES AS A TRANSMISSION LINE BETWEEN THESE TWO CONNECTION POINTS AS SYSTEM PRESSURES ARE INADEQUATE FOR DISTRIBUTION TO SERVICES. CONNECTIONS TO THE 16" LINE ARE NOT REQUIRED AT POINTS 7, 8, 9, OR 10. TIEINS SHALL BE PERFORMED AT CONNECTION POINTS 6 AND 11 SIMULTANEOUSLY, REQUIRING ONLY ONE WATER SHUT-OFF. THIS WILL BE ACCOMPLISHED BY SLOWLY CLOSING VALVES "6A", "6B", AND "11A", WHICH ARE TO BE RE-OPENED WHEN THE TIE-IN IS COMPLETED. THIS SHUT-OFF CAN NOT BE PERFORMED UNTIL ALBUQUERQUE UTILITIES CORPORATION HAS A PROPOSED PRESSURE REDUCING VALVE IN SARAH ROAD INSTALLED AND OPERATIONAL.
- 7.-10. NEW VALVES SHALL BE INSTALLED IN EXISTING BRANCH MAINS IN A MANNER SIMILAR TO THAT DESCRIBED ABOVE. THE NEW 8" WATERLINE SHALL THEN BE INSTALLED & CONNECTED TO THE EXISTING BRANCH MAINS PER THE DETAIL ON SHEET 9.
 - 12. By CLOSING EXISTING VALVES LABELED "12A" AND "12C" (LOCATED AT SOUTHERN BLVD), THE PROPOSED 8" WATERLINE SHALL BE CONNECTED TO THE EXISTING 8" WATERLINE RUNNING NORTH IN GOLF COURSE ROAD.

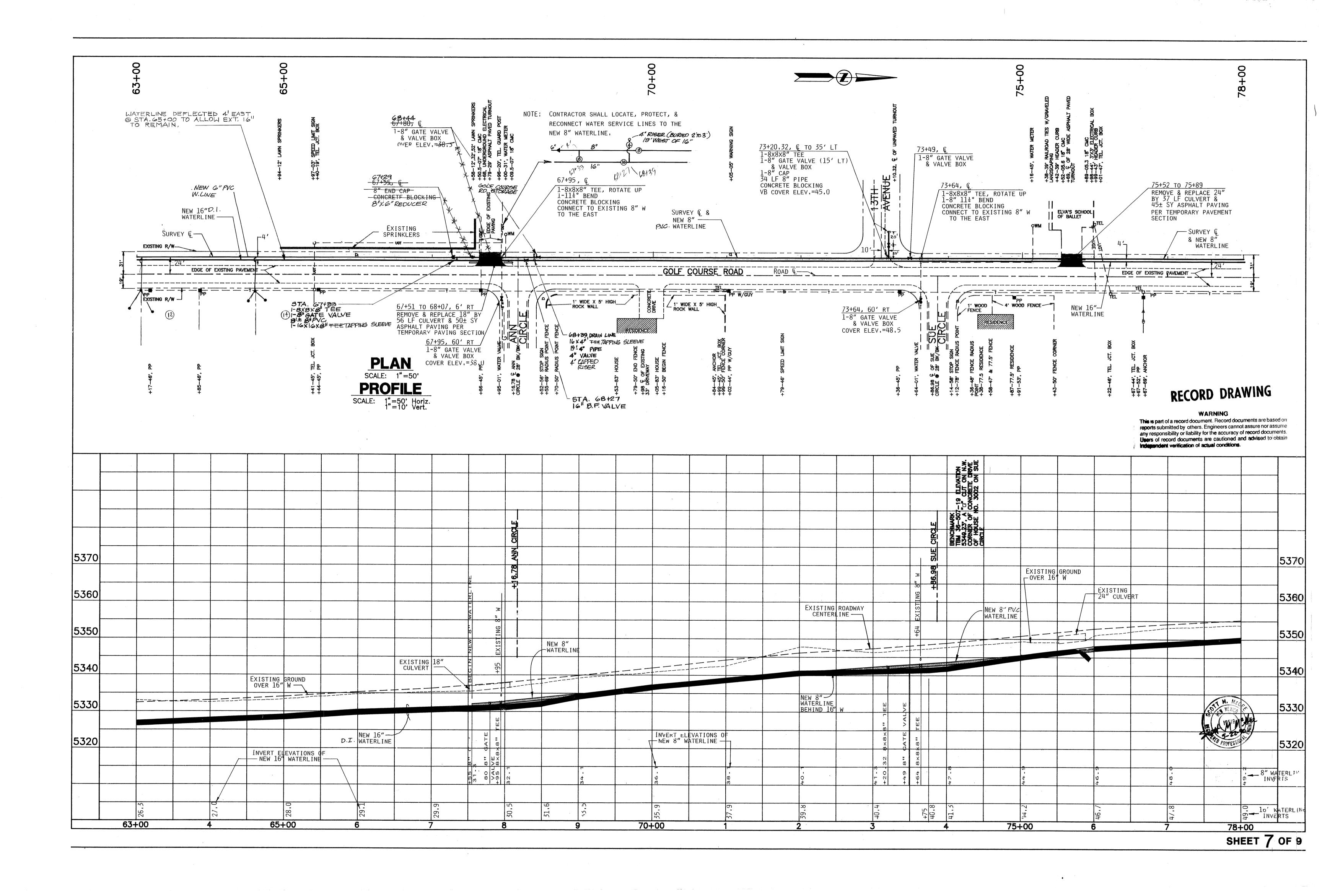


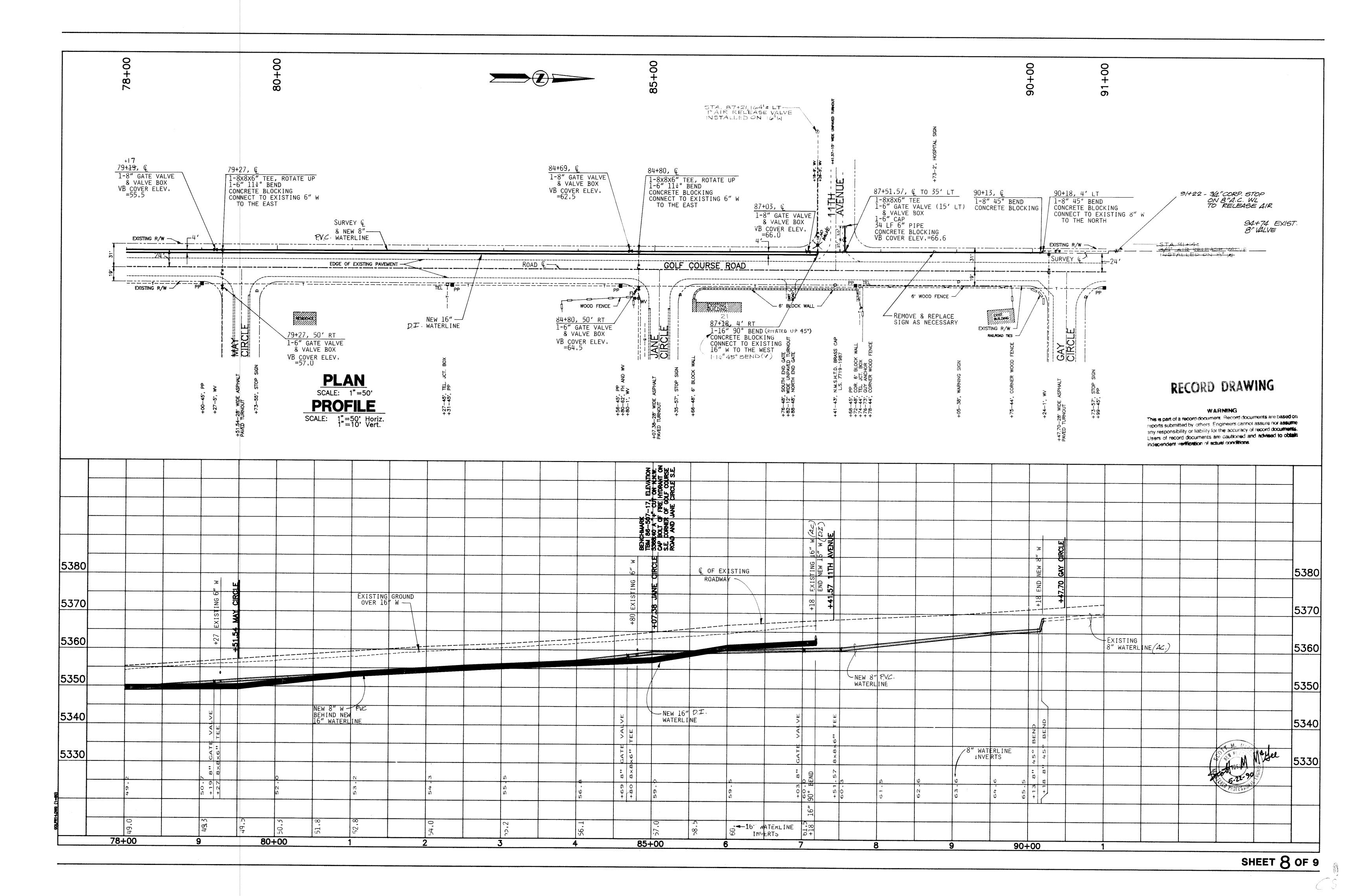


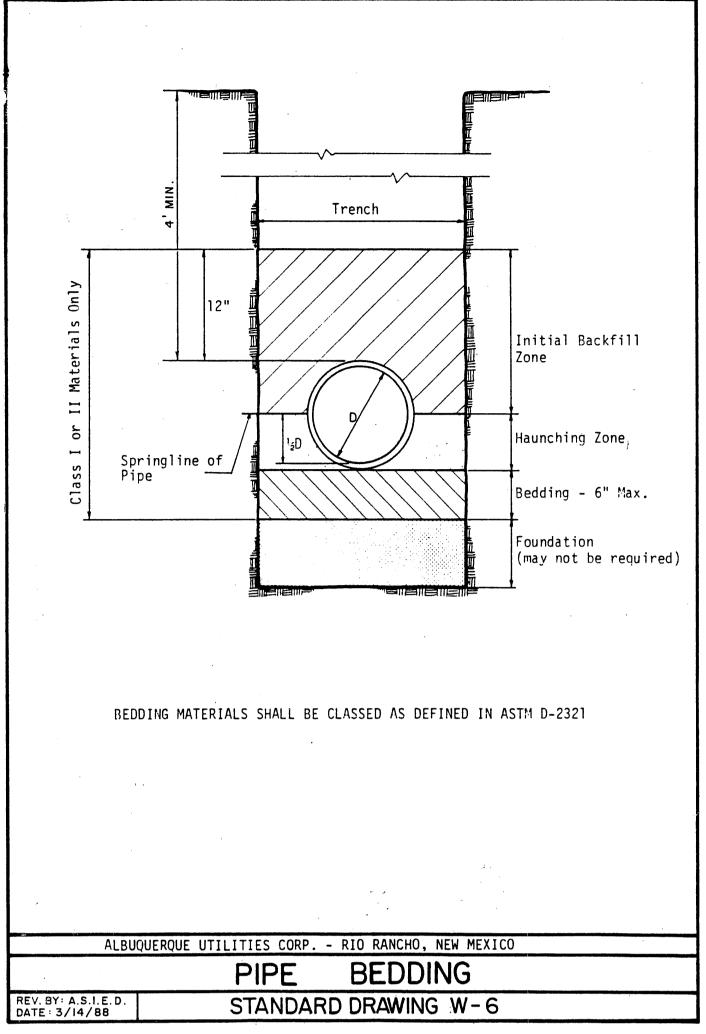


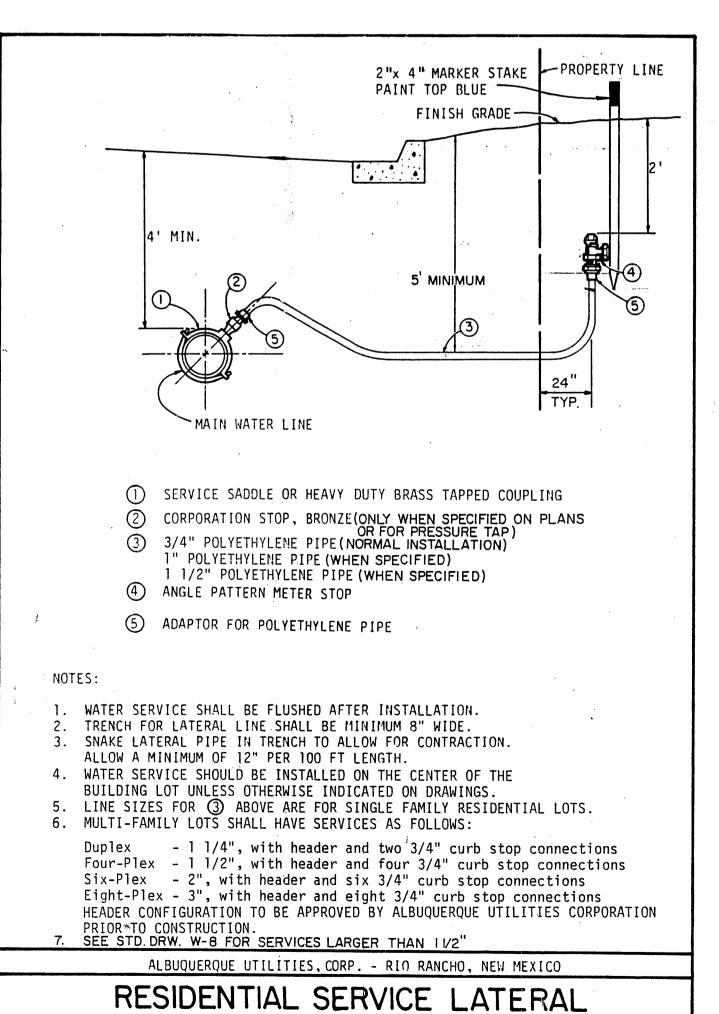












STANDARD DRAWING W-4

REV. BY: A.S.I.E.D.

DATE: 7/11/88

