

LAS VEGAS VALLEY WATER DISTRICT STANDARD NOTES

- NO WORK SHALL BEGIN ON THE WATER PLANS UNTIL THEY HAVE BEEN RELEASED FOR CONSTRUCTION BY THE LVWD. FOLLOWING APPROVAL OF THE PLANS, NOTICE SHALL BE GIVEN TO THE LVWD CUSTOMER SERVICE DEPARTMENT (870-4194) 48 HOURS PRIOR TO ACTUAL CONSTRUCTION, AND 24 HOURS PRIOR TO AN INSPECTION.
- CALL BEFORE YOU DIG 1-800-227-2600.
- ALL WORK SHALL CONFORM TO LVWD LATEST STANDARD PLATES, DRAWINGS, AND SPECIFICATIONS.
- ALL WORK, EXCEPT AS MODIFIED HEREON OR BY NOTE 3, SHALL BE DONE IN ACCORDANCE WITH THE MOST CURRENT DRAFT OR ADDITION OF THE UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFFSITE IMPROVEMENTS, CLARK COUNTY AREA.
- DISTRICT APPROVED SERVICE SADDLES OR TAPPED COLLARS SHALL BE REQUIRED ON ALL 3/4" AND 1" SERVICE LATERALS. SERVICE SADDLES ONLY SHALL BE PERMITTED ON 1 1/2" AND 2" SERVICE LATERALS. DOUBLE TAPPED COLLARS ARE NOT PERMITTED.
- COPPER SERVICE LATERALS: ALL 3/4" TO 2" SERVICE LATERALS SHALL BE OF COPPER TUBING IN ACCORDANCE WITH THE DISTRICT'S SPECIFICATIONS AND STANDARD PLATES.
- THE MAXIMUM ALLOWABLE JOINT DEFLECTION FOR ACP AND DUCTILE IRON PIPE SHALL BE AS FOLLOWS:

PIPE SIZES..... ACP.....	DUCTILE IRON	MECHANICAL JOINT
6 INCH	2.5 DEGREES	3.5 DEGREES
8-12 INCH	2.5 DEGREES	2.5 DEGREES
14-18 INCH	2.0 DEGREES	1.5 DEGREES
18-24 INCH	N/A	1.5 DEGREES

 IF THESE OFFSETS CONFLICT WITH THE PIPE MANUFACTURERS RECOMMENDATION, THE MORE STRINGENT REQUIREMENT SHALL APPLY.
- ALL WATER METER BOXES SHALL BE LOCATED OUTSIDE OF DRIVEWAY AREAS.
- ALL VALVES SHALL BE LOCATED OUTSIDE OF DRIVEWAYS AND VALLEY CUTTERS.
- DETECTOR TAPE SHALL BE REQUIRED IN ACCORDANCE WITH STANDARD PLATE NO. WHERE INDICATED, AND AS FOLLOWS:
 - OVER ALL MAINS NOT INSTALLED 6 FEET FROM BACK OF CURB.
 - OVER ALL SERVICE LATERALS NOT INSTALLED AT RIGHT ANGLES TO MAIN.
- ALL WATER MAINS SHALL BE PRESSURE TESTED AT 200 PSI FOR A CONTINUOUS TWO HOUR PERIOD, IN ACCORDANCE WITH DISTRICT STANDARDS.
- ALL WATER MAINS SHALL BE DISINFECTED, FLUSHED, AND AN ACCEPTABLE HEALTH SAMPLE OBTAINED, PRIOR TO THE CONNECTION OF THE WATER MAIN(S) AND/OR LATERAL(S) TO THE DISTRIBUTION SYSTEM.
- CONTRACTOR TO OBTAIN ALL METERS 4" AND SMALLER FROM LVWD CENTRAL STORES. TELEPHONE 226-3152. FORTY-EIGHT (48) HOURS PRIOR TO PICKUP.

CITY OF LAS VEGAS FIRE DEPARTMENT NOTES

- ALL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH THE CITY OF LAS VEGAS FIRE DEPARTMENT "HYDRANT SPECIFICATIONS", "HYDRANT INSTALLATION SPECIFICATIONS" AND ORDINANCE #545.
- AUTHORIZED HYDRANTS FOR THIS PROJECT ARE:
 - KENNEDY QUADRANT
 - MULLER A-423 CENTURION
 - CLOW MODEL 2546 MEDALLION
- ON ANY NEW HOME OR BUILDING INSTALLATION, ACCESSIBLE FIRE HYDRANTS SHALL BE INSTALLED BEFORE COMPLETION OF CONSTRUCTION COMMENCES AND SAID FIRE HYDRANTS SHALL BE IN GOOD WORKING ORDER WITH AN ADEQUATE WATER SUPPLY.
- CONTRACTOR SHALL PLACE A BLUE REFLECTIVE MARKER AT CENTRELINE OF STREET ADJACENT TO FIRE HYDRANT AS REQUIRED IN ORDINANCE #545 TO IDENTIFY FIRE HYDRANT LOCATIONS.
- CALL THE LAS VEGAS BUILDING DEPARTMENT AT 799-2071 FOR UNDERGROUND INFORMATION, PRESSURE AND FLOW VERIFICATION OF ALL FIRE HYDRANTS AND FIRE LINES BEFORE COVERING.
- PAINTING OF THE CURBS AND HYDRANT AND ANY WORK NECESSARY FOR PROTECTION OF HYDRANTS FROM PHYSICAL DAMAGE PER ORDINANCE #545, SHALL BE COMPLETED BEFORE APPROVAL BY THE CITY OF LAS VEGAS FIRE DEPARTMENT.
- A PERMIT IS REQUIRED FROM THE FIRE DEPARTMENT FOR ON-SITE WATER LINE AND FIRE HYDRANT. THE PERMIT AND CONTRACTOR'S MATERIAL AND TEST CERTIFICATE FOR UNDERGROUND, PERFORM SHALL BE OBTAINED FROM THE FIRE PROTECTION ENGINEER PRIOR TO ANY WORK BEGINNING.
- A FLOW TEST MUST BE WITNESSED BY THE FIRE DEPARTMENT PRIOR TO OCCUPANCY FOR VERIFICATION OF REQUIRED ON-SITE WATER SUPPLY.
- ALL ON-SITE FIRE MAIN MATERIALS MUST BE U.L. LISTED AND F.M. APPROVED.
- FIRE HYDRANT SPACING:

RESIDENTIAL - 500 FEET UNSPRINKLERED, 600 FEET SPARKLERED COMMERCIAL, HOUSING MULTI-FAMILY - 200 FEET UNSPRINKLERED, 400 FEET SPARKLERED.

- NO FIRE HYDRANT SHALL BE LOCATED WITHIN THE REQUIRED RADIUS OF A CUL-DE-SAC OR WITHIN 20 FEET OF THE PERIMETER OF THE RADIUS OF THE CUL-DE-SAC.
- NO FIRE HYDRANT SHALL BE LOCATED WITHIN 6 FEET OF ANY CURB RETURN, DRIVEWAY, POWER POLE, STREET LIGHT OR ANY OTHER OBSTRUCTION.
- HOT MORE THAN 2 HYDRANTS CAN BE OUT OF SERVICE DUE TO A SINGLE MAIN BREAK.
- THE TURNING RADIUS FOR ANY FIRE APPARATUS ACCESS ROAD AND/OR FIRE LANE, PUBLIC OR PRIVATE, SHALL BE NOT LESS THAN 45 FEET OUTSIDE RADIUS AND 22 FEET INSIDE RADIUS.
- A FIRE APPARATUS ROAD SHALL BE REQUIRED WHEN ANY PORTION OF AN EXTERIOR WALL OF THE FIRST STORY IS LOCATED MORE THAN 100 FEET FROM A FIRE DEPARTMENT VEHICLE ACCESS (SEE SPECIFICATIONS IN IPC MS. SECTION 10.207).
- ALL DEAD END FIRE FIRE APPARATUS ACCESS ROADS AND/OR FIRE LANES, PUBLIC OR PRIVATE, IN EXCESS OF 150 FEET IN LENGTH SHALL BE PROVIDED WITH AN APPROVED TURN ARROUND AREA. SEE ORDINANCE #545.

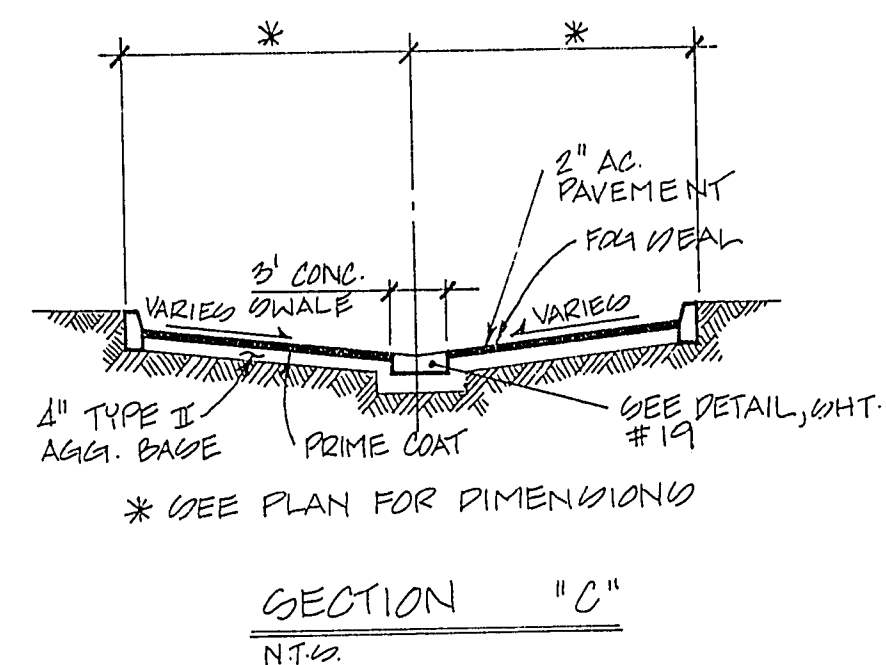
CITY OF LAS VEGAS SEWER NOTES

- ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE LEGEND AND CONSTRUCTION STANDARD FOR WASTEWATER COLLECTION SYSTEMS AND THE UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA, AS AMENDED. IN ALL CASES, THESE STANDARDS SHALL SUPERSEDE THE UNIFORM STANDARD SPECIFICATIONS. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO BE AWARE OF THE CONTENTS OF THE ABOVE SPECIFICATION BOOKS.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO FERTILIZE CONSTRUCTION AS PER PLANS. ANY ADDITIONAL DELETIONS OR CHANGES SHALL FIRST MEET WITH THE APPROVAL OF THE CONTROLLING AGENCY.
- CHURCH "S" OR "O" IN CURBS WHERE SEWER OR GAS LATERALS PASS UNDER THE CURB.
- POLYMER (CVD) SEWER PIPE SHALL MEET ASTM D-1024 FOR 35" SPECIFICATIONS, INSTALLED WITH SAID BEDDING AND BACKFILL OF TYPE 1 (SAND).
- ALL MANHOLES IN PAVED STREETS 10' W/4' AND LARGER, SHALL HAVE CONCRETE COLLARS.
- TEE SADDLES SHALL BE USED TO CONNECT SEWER LATERALS TO EXISTING MAIN LINES UP TO 12" DIA. SIZE. CONNECTIONS TO 15" OR LARGER MAINS SHALL REQUIRE SPECIAL PROCEDURES.
- A SEWER MAIN CROSSING OVER A WATER MAIN OR LESS THAN 16" UNDER A WATER MAIN MUST BE REINFORCED CONCRETE ENCASED FOR A DISTANCE NOT LESS THAN TEN FEET (10') TO EACH SIDE OF THE CENTERLINE OF THE WATER MAIN.
- ALL CONTRACTORS INSTALLING SEWER MAINS THAT WILL BE UNDER THE JURISDICTION OF THE CONTROLLING AGENCY MUST BE CLASS "A" CONTRACTORS.

NOTE: ALL ON-SITE SEWERS ARE PRIVATELY OWNED AND MAINTAINED

LEGEND / ESTIMATE OF QUANTITIES

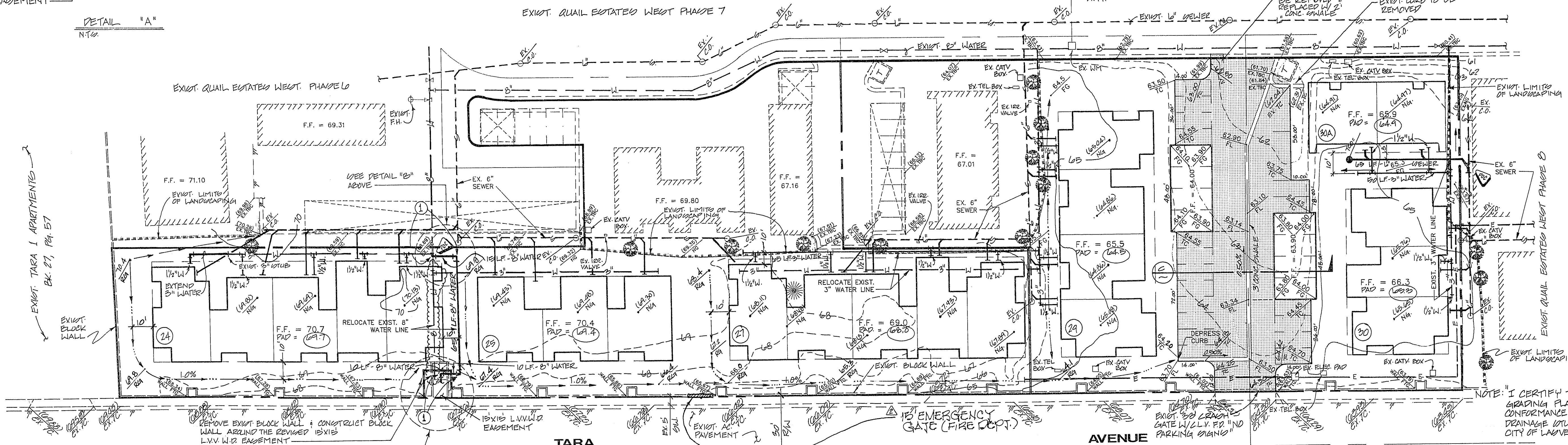
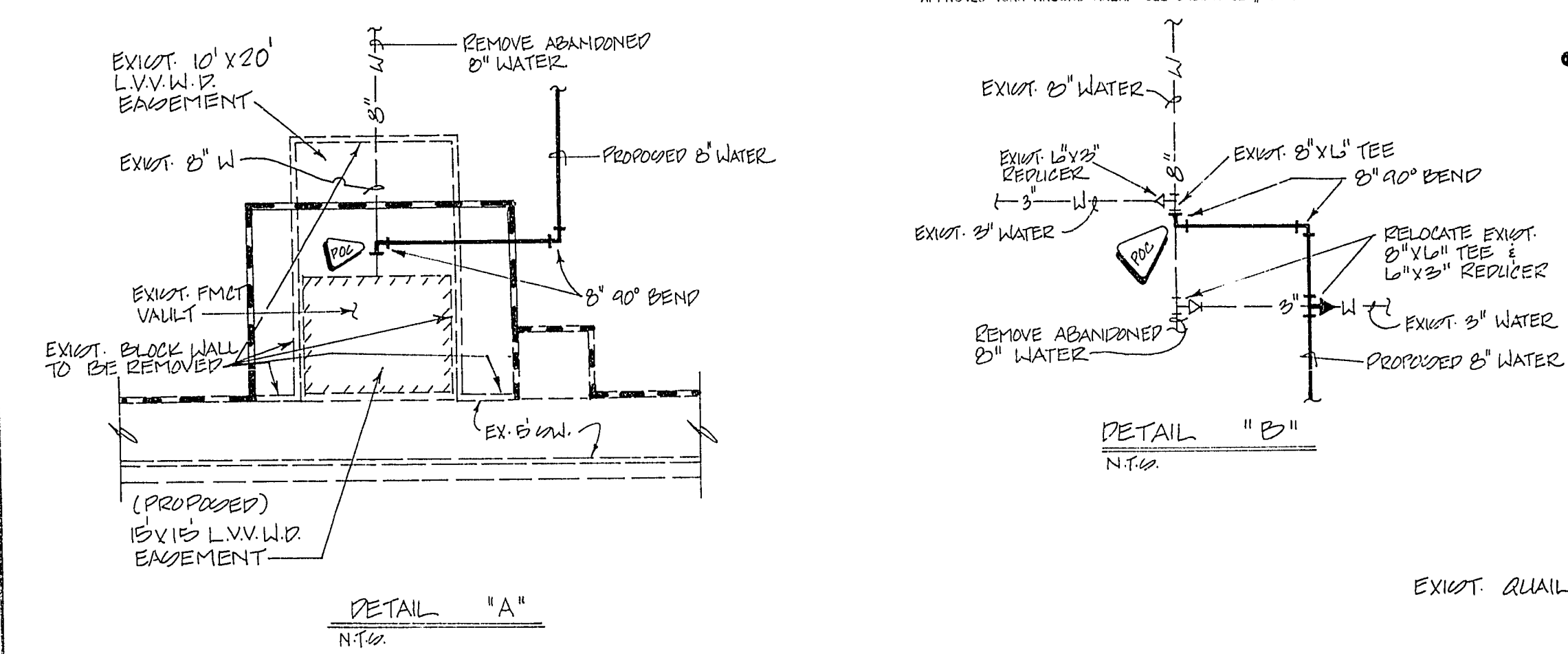
WATER	
2" 90° ELBOW	4 EA.
2" WATER MAIN	90 LF.
2" WATER MAIN	215 LF.
1 1/2" WATER SERVICE	175 LF.
SEWER	
CLEAN-OUTS	1 EA.
12" SEWER MAIN	65 LF.
4" SEWER LATERALS	350 LF.



NOTE: FOR DETAILS, SEE SHEETS 16-18 OF 24 QUAIL ESTATES WEST, C.L.V. PLANS # 3074-4009-1.

EXIST. QUAIL ESTATES WEST PHASE 4

NOTE: FOR EXACT BEARINGS & DISTANCES REFER TO THE SECOND AMENDED MAPS FOR QUAIL ESTATES WEST PHASE 4 & 10.



NOTE: CONTRACTOR TO VERIFY THE LOCATION OF ALL EXIST. UTILITY MAINS AND LATERALS PRIOR TO CONSTRUCTION. EXACT LOCATIONS OF SERVICE LATERALS TO BE AS SHOWN PER THE ARCHITECTURAL BUILDING PLANS.

NOTE: THIS PLAN IS TO REMOVE THE APPROVED DRAWINGS FOR QUAIL ESTATES WEST IN REGARD TO PHASE 4 AND PHASE 10 ONLY, AND NO MUCH SHOULD BE CONSIDERED AS A REVISION TO THE PLANS PREPARED BY GUMMIT ENGINEERING CORPORATION, CITY PLANS LIBRARY # 3074-4009-1.

APPROVAL OF REVISIONS

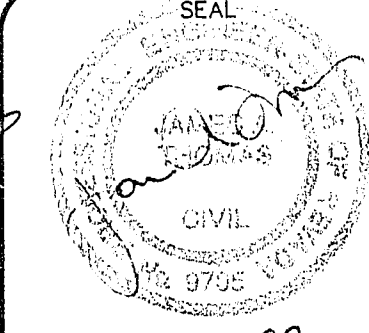
CLV CITY ENGINEER
 Revised Easement A - METER UNIT
 David Foxman 11/6/92
 CLV FIRE DEPARTMENT
 DATE

CLARK - RIBEIRO ASSOC.
 CITY OF LAS VEGAS

CLV

GRADING & UTILITY PLAN
 (REVISED)

QUAIL ESTATES WEST
 PHASE 4 & 10



NO. 4353-1
 BY JPD, WLR
 DATE SEPT., 92
 SCALE 1"=30'
 SHEET 1
 Additional
 OF 1 SHEETS



LOCATION MAP

Call before you dig
 1-800-227-2600

13-4-24 Revision for 3074-4009-1