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### SEWER CONTRIBUTION

AVERAGE FLOW: 3.98 ACRES (8 ERG/ACRE) (250 GPD) = 7960 GPD  
C ( 7960 GPD \* (1 MGD/100000 GPD) ) \* (2.95) = 6.0235 MGD

### FIRE FLOW CALCULATIONS

FIRE FLOW REQUIREMENT IS 2,875 gallons per minute at 20 psi residual pressure.  
Based on:  
SQUARE FOOTAGE: 45,480 GSF  
LARGEST AREA BETWEEN 4-HOUR AREA SEPARATION WALLS: NA SF  
BUILDING HEIGHT: 20 FEET  
NUMBER OF STORIES: 1  
TYPE OF CONSTRUCTION: IN  
OCCUPANCY: -  
FULL AUTOMATIC FIRE SPRINKLER SYSTEM: YES  
APPROVAL OF THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR, OR AN APPROVAL OF, ANY VIOLATION OF ANY OF THE PROVISIONS OF THE STATE OR COUNTY LAWS.  
BY: *Robert Bell* 3-15-05 DATE

### UTILITY NOTES

- INSTALL 12" 8" MET TAPPING SLEEVE AND TAPPING VALVE PER UDACS PLATE NO. 22
- INSTALL 8" 8" MECHANICAL JOINT MET TAPPING SLEEVE AND TAPPING VALVE PER UDACS PLATE NO. 22
- INSTALL 6" DCCA PER UDACS PLATE NO. 11C USING FIBRO PRODUCT MODEL 876 V
- INSTALL 8" PVC WATER LINE
- INSTALL 1/2" WATER METER PER UDACS PLATE NO. 1D.
- INSTALL 1/2" RPPA PER UDACS PLATE NO. 11A
- INSTALL 2" SERVICE SADDLE AND CORPORATION STOP
- INSTALL 8" 8" 8" TEE
- INSTALL FIRE HYDRANT ASSEMBLY PER UDACS PLATE NO. 7 WITH 6" WATER LINE AND 6" GATE VALVE
- INSTALL 6" SDR-35 PVC SANITARY SEWER LINE
- POINT OF CONNECTION (P.O.C.) - SEE PLUMBING PLANS FOR CONTINUATION
- FIRE DEPARTMENT CONNECTION (F.D.C.)
- INSTALL 6" SANITARY SEWER CLEANOUT.
- INSTALL 2" TYPE K COPPER WATER LINE
- INSTALL 90° BEND.
- INSTALL 45° BEND
- INSTALL 1 1/2" x 2" REDUCER
- INSTALL 2" PVC WATER LINE
- INSTALL 11" BEND
- RELOCATE EXISTING STREETLIGHT TO NEW LOCATION PER USDOCA 320, 321 & 322
- SAWCUT EXISTING PAVEMENT AND TRENCH BACKFILL PAVED AREAS PER USDOCA DWG. NO. 503.
- SAWCUT EXISTING PAVEMENT AND TRENCH BACKFILL PAVED AREAS PER USDOCA DWG. NO. 504.
- INSTALL 6" GATE VALVE

### REDUCED PRESSURE PRINCIPLE ASSEMBLY (1) 2"

Approved Reduced Pressure Principle Assembly(s) shall be installed per the UDACS Plate No. 11A. No water shall be taken from a service requiring backflow prevention until the reduced pressure principle assembly has been successfully tested by the LVVWD.

Any block wall or other fence material shall be designed and constructed around the outside of the easement(s) to allow the District direct access from the adjacent right-of-way.

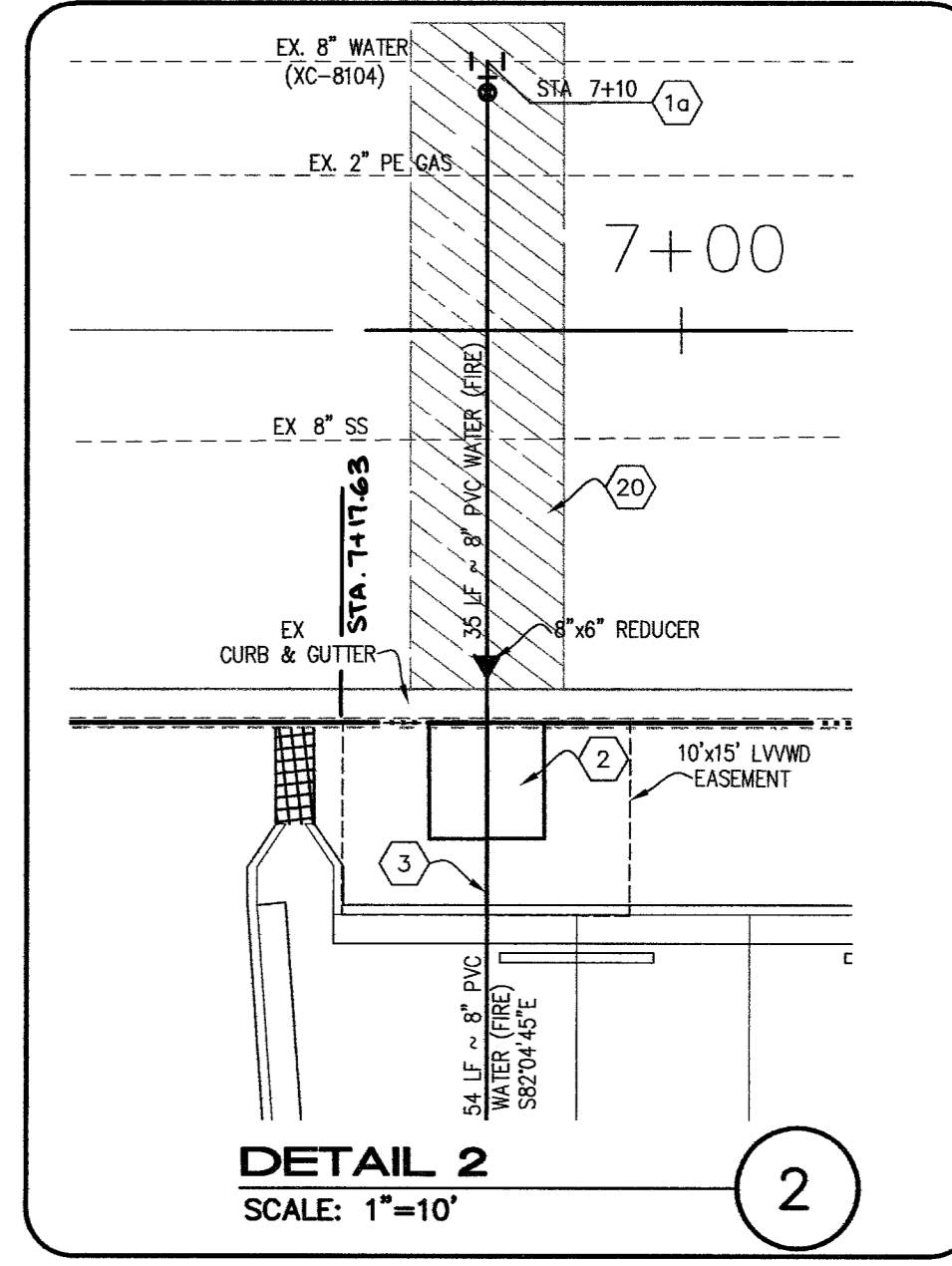
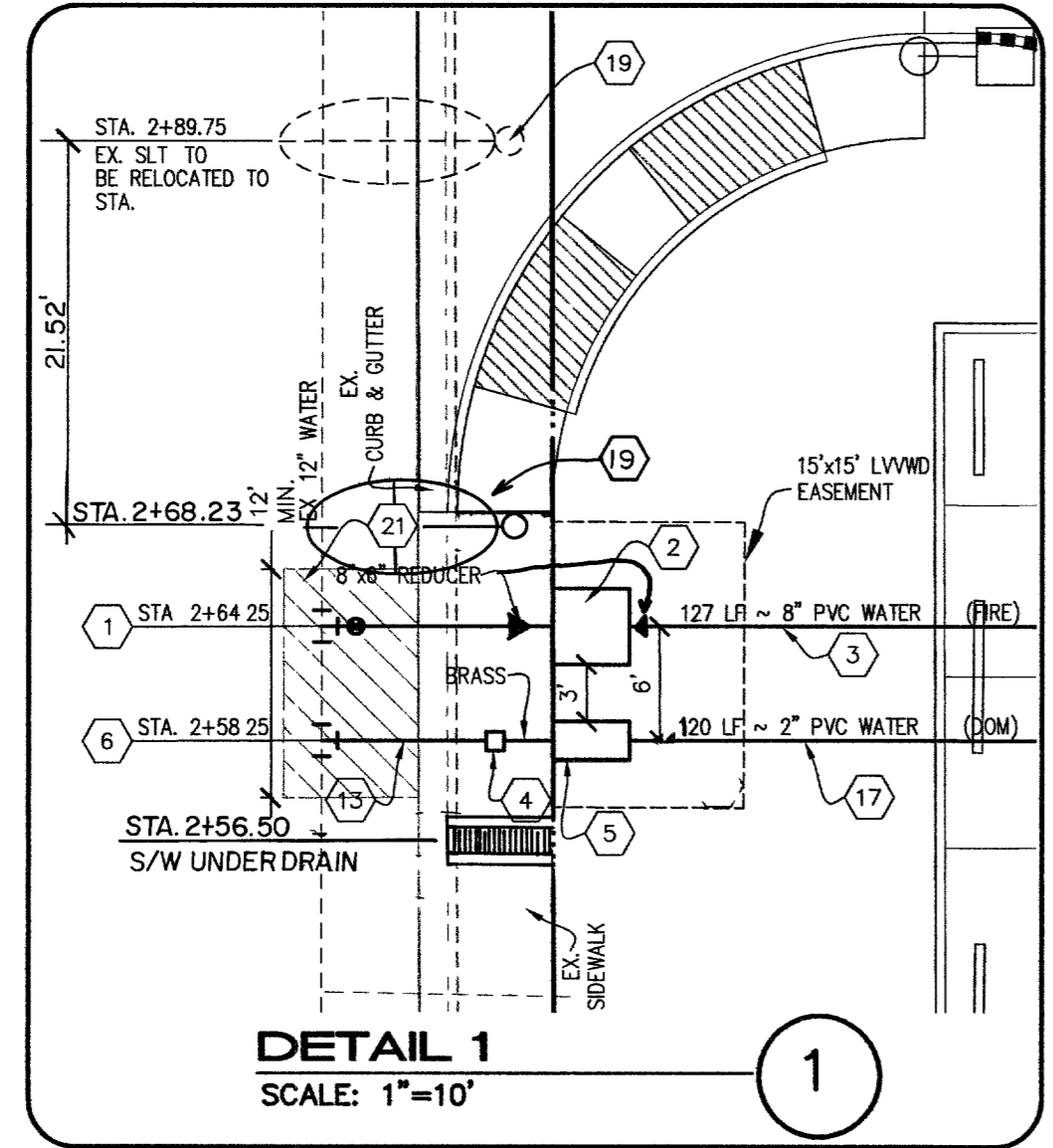
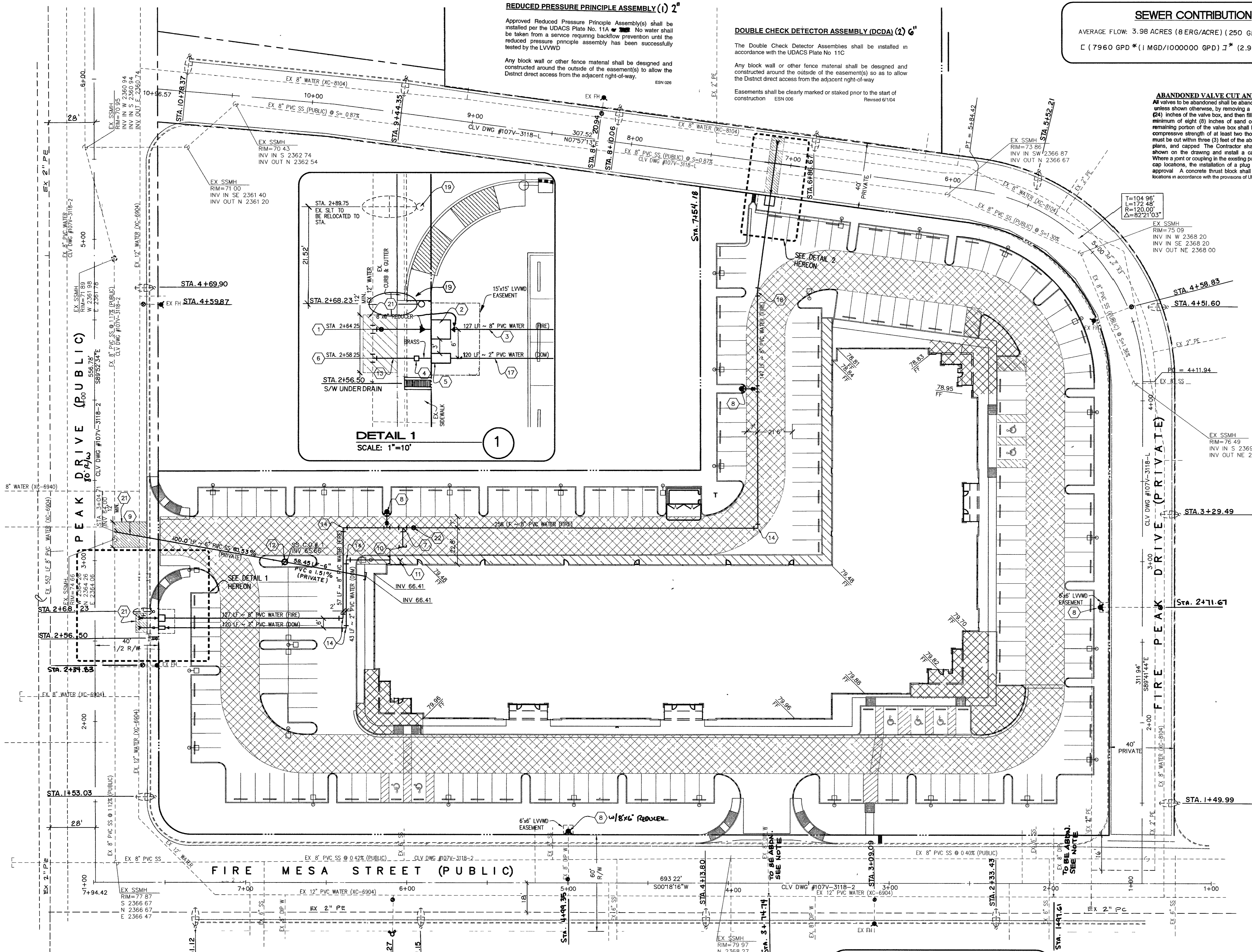
### DOUBLE CHECK DETECTOR ASSEMBLY (DCCA) (2) 6"

The Double Check Detector Assemblies shall be installed in accordance with the UDACS Plate No. 11C.

Any block wall or other fence material shall be designed and constructed around the outside of the easement(s) so as to allow the District direct access from the adjacent right-of-way.

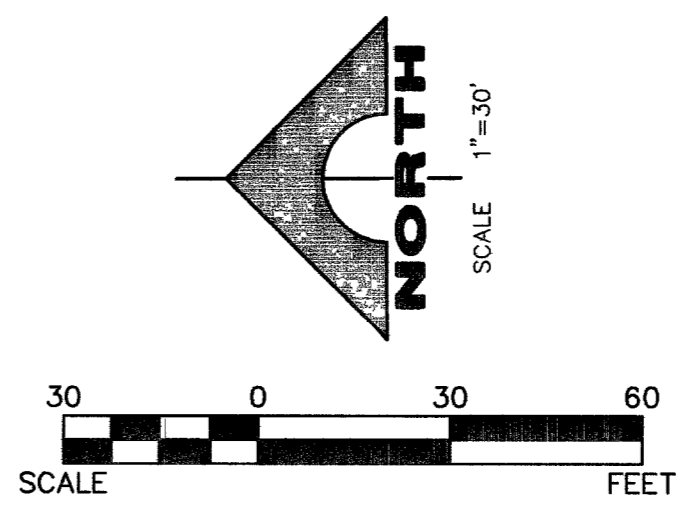
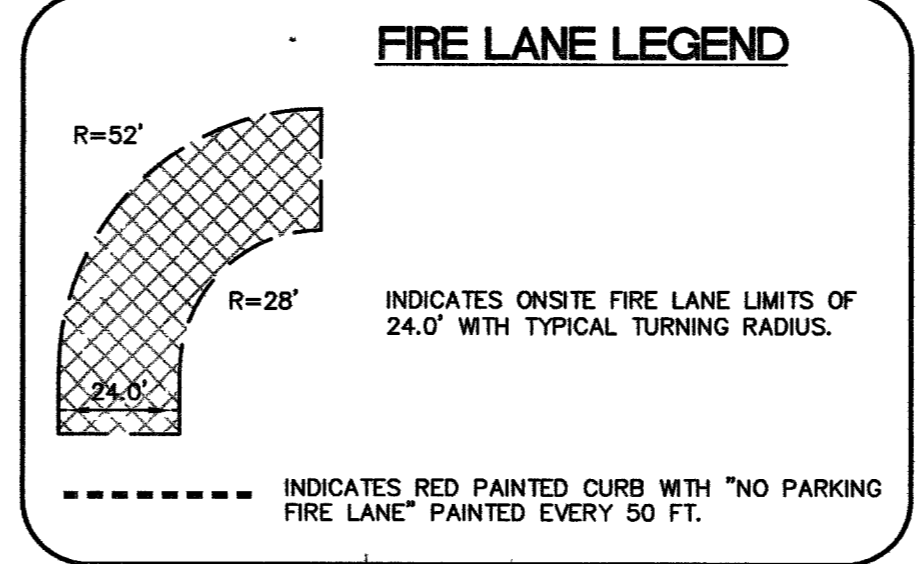
### ABANDONED VALVE CUT AND CAP

All valves to be abandoned shall be abandoned in the closed position, unless shown otherwise, by removing a minimum of the top twenty-four (24) inches of the valve box, and then filling the bottom of the box with a minimum of eight (8) inches of sand or Type II aggregate base, the remaining portion of the valve box shall be filled with concrete having a compressive strength of at least two thousand (2,000) psi. The lateral must be cut within three (3) feet of the abandoned valve, or as shown on plans, and capped. The Contractor shall cut the existing pipe where shown on the drawing and install a cap complete with thrust block. Where a joint or coupling in the existing pipe is uncovered at the cut and cap location, the installation of a plug may be permitted with District approval. A concrete thrust block shall be installed at all cap or plug locations in accordance with the provisions of UDACS Plate 5. ESN 033. Revised 6/1/04



**BASIS OF BEARINGS**  
THE SOUTH LINE OF THE SOUTHEAST QUARTER (SE 1/4) OF SECTION 15, T. 20 S., R. 60 E., M.D.M. BEING THE CENTERLINE OF SMOKE RANCH ROAD, BEARS S89°39'29"E AS SHOWN ON THE PLAT OF THE LAS VEGAS TECHNOLOGY CENTER, BOOK 38, PAGE 91 OF PLATS, OFFICIAL RECORDS OF CLARK COUNTY, NEVADA.

**BENCHMARK #5LVOO 15N6**  
CLV BM 5LVOO 15N6  
RIVET AND PLATE IN TOP OF CURB ON EAST SIDE OF TENAYA @3100 TENAYA.  
ELEVATION: 710.8559 METERS  
2332.20 FEET



**ABANDONMENT OF EXISTING SERVICE(S)—LARGER THAN 2"**  
The Contractor shall notify the Inspection Division at the LVVWD (702-258-3277) 48 hours prior to the requested removal time to allow the district to take the final meter reading. After the final reading, the Contractor may then begin removal procedures for the affected service as follows: 78877

Call before you Dig  
1-702-455-7511  
1-702-229-6611

Call before you Dig  
1-702-227-2929

Call before you Dig  
1-800-227-2600

LAS VEGAS TECHNOLOGY CENTER II  
OFFICE BUILDING L-2  
THOMAS AND MACK DEVELOPMENT GROUP  
UTILITY PLAN AND STREETLIGHT PLAN

G. WALLACE, INC.  
Engineers/Planners/Surveyors  
1855 SOUTH RAINBOW BLVD./LAS VEGAS, NEVADA 89146  
(702) 864-2600 FAX: (702) 864-2609  
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DRAWING  
C-4  
107V3118-L2  
4 OF 6 SHTS