

SEWER CONTRIBUTION

25 FIXTURE UNITS x 0.45 ERU's/FIXTURES x 250 GPD/ERU = 2812.5 GPD
 2812.5 GPD = .0028 MGD
 .0028 MGD x 3.5 PEAK FACTOR = .0098 MGD PEAK

FIRE FLOW CALCULATIONS

FIRE FLOW REQUIREMENTS IS **3375** GALLONS PER MINUTE AT 20psi RESIDUAL PRESSURE.

BASED ON:

SQUARE FOOTAGE: **63,588** square feet

LARGEST AREA BETWEEN 4 HOUR
 AREA SEPARATION WALLS: **31,794** square feet

BUILDING HEIGHT: **37** feet

NUMBER OF STORIES **2** floors

TYPE OF CONSTRUCTION: **VN**

OCCUPANCY: **13/53**

FULLAUTOMATIC FIRE SPRINKLER SYSTEM: YES NO

REVIEWED BY: *[Signature]* DATE: **4.7.10**

UTILITY NOTES

- 1 REMOVE EXISTING CAP AND CONNECT TO EXISTING 8" WATER W/ 8"x10" INCREASER.
- 2 CONTRACTORS SHALL VERIFY EXISTING LATERAL LOCATIONS AND INVERT ELEVATION ON PLAN AND NOTIFY THE ENGINEER OF ANY DEVIATIONS PRIOR TO CONSTRUCTIONS. ANY WORK DONE PRIOR TO THIS VERIFICATION SHALL BE THE CONTRACTORS' RESPONSIBILITY AND COST.
- 3 INSTALL 2" SERVICE SADDLE AND CORPORATION STOP.
- 4 INSTALL 2" WATER METER PER UDACS PLATE 10.
- 5 INSTALL 2" R.P.P.A. PER UDACS PLATE 11A.
- 6 INSTALL 90° BEND. USDCCA #512, SEE PLAN FOR EXACT SIZE.
- 7 INSTALL 45° BEND. USDCCA #512, SEE PLAN FOR EXACT SIZE.
- 8 PROVIDE 2" STUB WIT 2" GATE VALVE FOR IRRIGATION
- 9 ~~INSTALL DUAL 10" R.C. DA PER UDACS PLATE 20B & DETAIL B ON SMT CL~~
- 10 INSTALL FIRE HYDRANT ASSEMBLY PER UDACS PLATE 700
- 11 REMOVE EXISTING CAP AND JOIN EXISTING SEWER.
- 12 INSTALL 2" x 3" REDUCER. USDCCA #513.

GENERAL NOTE: ALL UTILITY LINES SHALL BE BACKFILLED AND COMPACTED PER CLARK COUNTY PUBLIC WORKS STANDARD DRAWINGS # 405 & 406.

13 INSTALL 10"x10" TEE, USDCCA #612

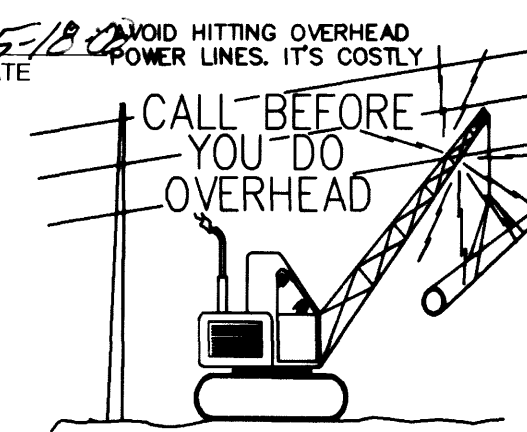
INSTALLATION OF DOUBLE CHECK DETECTOR ASSEMBLY (2) 10"
 The double check detector assemblies shall be installed in accordance with the UDACS Plate 20B.
 Any block wall or other fence material shall be designed and constructed around the outside of the easement(s), so as to allow the District direct access from the adjacent right-of-way.

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REDUCED PRESSURE PRINCIPLE ASSEMBLY 2"

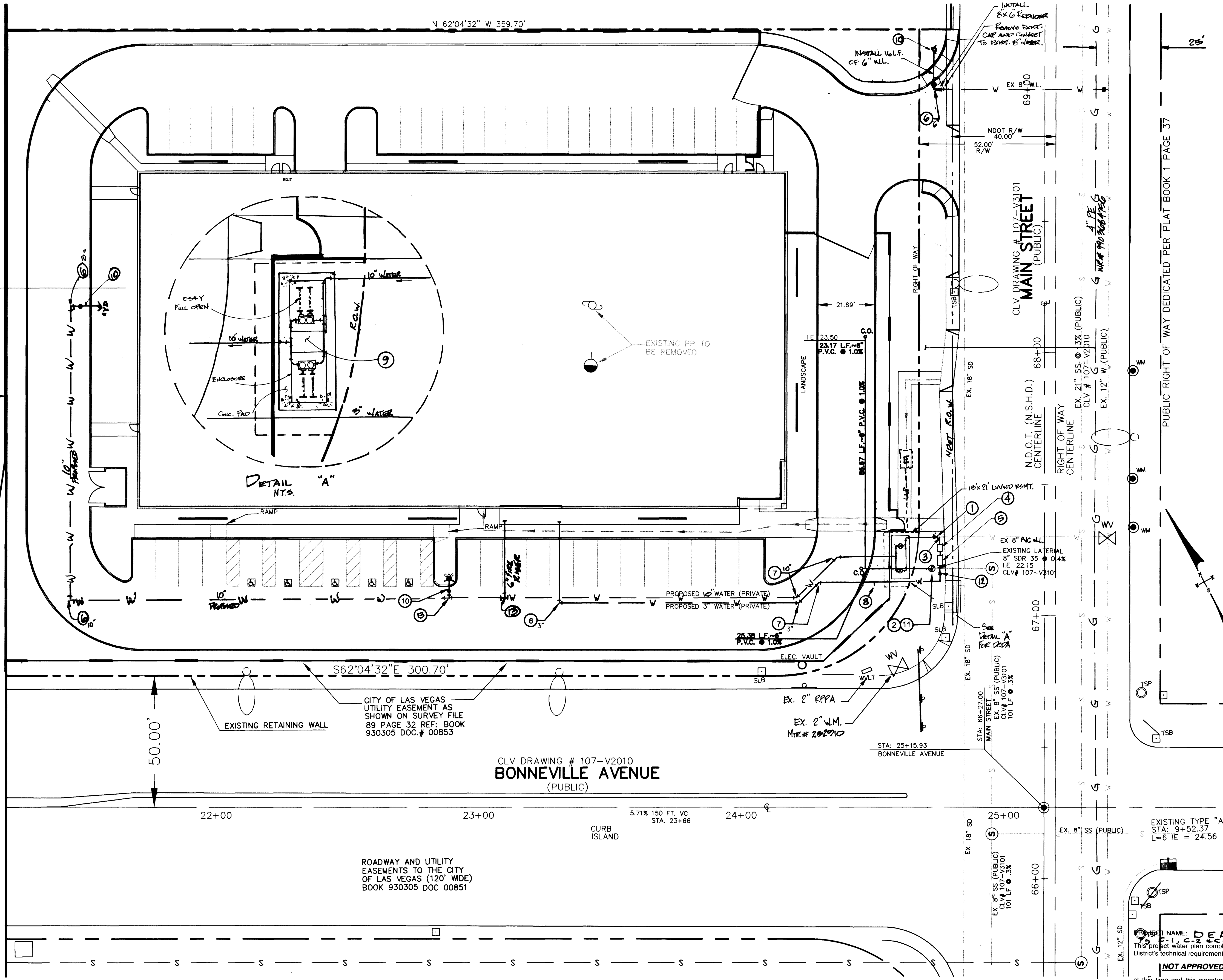
Approved Reduced Pressure Principle Assembly(s) shall be installed per the UDACS Plate No. 11A. No water shall be taken from a service requiring backflow prevention until the reduced pressure principle assembly has been successfully tested by the LVVWD.

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.

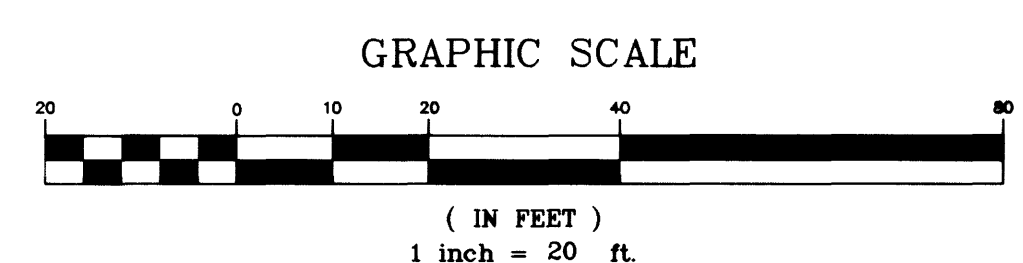


AVOID CUTTING UNDERGROUND UTILITY LINES. IT'S COSTLY

Call before you Dig.
 1-800-227-2600
 UNDERGROUND SERVICE (USA)



CLV DRAWING # 107-V2010
BONNEVILLE AVENUE
 (PUBLIC)



APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT DATE

BENCHMARK

BEING BM No. CLVBM 6001 34SW6
 ELEVATION = 2,027.25 FEET (NAVD 88)
 617.906 METERS
 RIVET AND SQUARE ALUMINUM PLATE IN CONCRETE BASE OF A STREET LIGHT POLE EAST SIDE OF MAIN STREET AND 200 +/- FT. SOUTHWEST OF BONNEVILLE AVENUE

BASIS OF BEARINGS

NORTH 27°55'16" EAST BEING THE EASTERLY RIGHT OF WAY LINE OF THE UNION PACIFIC RAILROAD AS SHOWN ON RECORD OF SURVEY, FILE 89, PAGE 32, CLARK COUNTY OFFICIAL RECORDS, CLARK COUNTY, NEVADA.

CTE NEVADA, INC.	
CTE NEVADA, INC. 4580 S. VALLEY VIEW, SUITE A-3, LAS VEGAS, NV 89103 PHONE (702) 795-2278 FAX (702) 795-4485	
UTILITY PLAN	DEA FACILITY LAS VEGAS, NEVADA
DRAWN BY: M. NORRIS	DESIGNED BY: M. NORRIS
CHECKED BY: R. BALLARD	PROJECT NO: 80-0379
DATE: 4/18/00	SCALE: 1" = 20' HORIZ 1" = 4' VERT.
SHEET C 3 3 OF 6 SHEETS drawing number 107-V 3160	