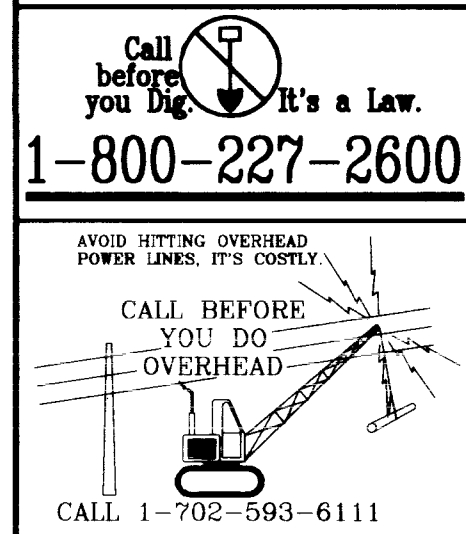
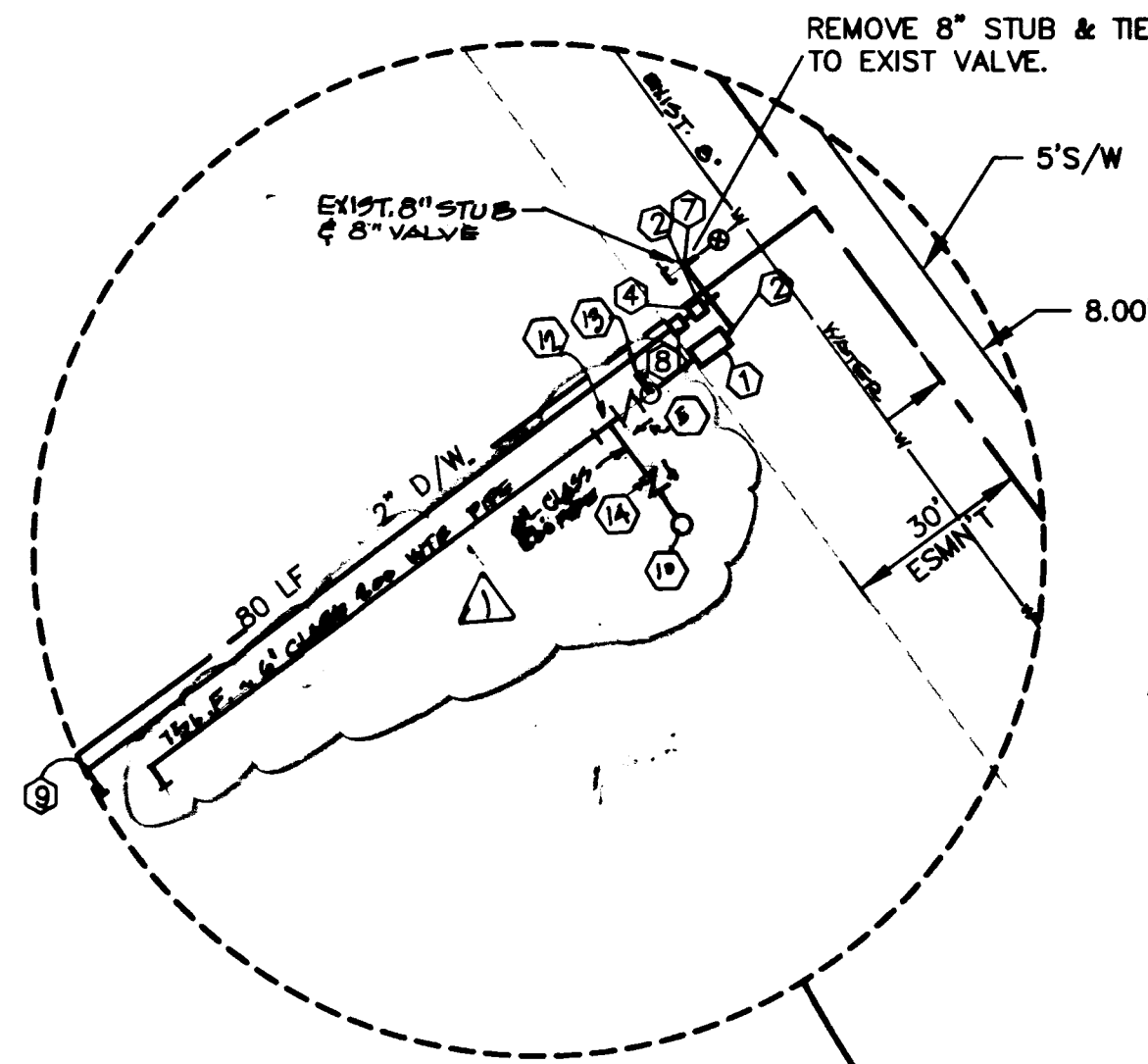




- LAS VEGAS VALLEY WATER DISTRICT STANDARD NOTES**
- No work shall begin until the water plans have been released for construction by the LVVWD. Following water plan approval, 48-hour notice shall be given to the LVVWD Communication Support Center (258-7171) prior to the start of construction. Notice must be given by 5:00 p.m. the business day prior to a LVVWD inspection.
 - All work shall conform to the LVVWD's Standard Plans, Drawings, and Specifications and the Uniform Design and Construction Standards for Water Distribution Systems (UDACS), latest edition.
 - All work, except as modified by these plans or by Note 2, shall be done in accordance with the most current draft or edition of the Uniform Standard Specifications for Public Works Construction Official Improvement, Clark County Area.
 - A single pipe material shall be used throughout the project unless otherwise approved by the LVVWD.
 - All service laterals two (2) inches in diameter and smaller shall be copper tubing with LVVWD approved service saddles.
 - All water meter boxes shall be located outside of driveway areas.
 - All valves shall be located outside of driveways, valley and curb gutters.
 - The following requirements must be met in the event a water line and sanitary or storm sewer line cross:
 - A minimum eighteen (18) inch vertical separation (outside to outside) must be maintained when the water line is installed over the sanitary or storm sewer line. If the vertical separation cannot be maintained or the water line must be placed under the sanitary or storm sewer line, the sanitary or storm sewer line must be constructed with one of the following or, as shown on these plans:
 - a. Potable Water supply quality material.
 - b. Encasement with four (4) inch concrete (minimum).
 - c. Sleeving with potable water supply quality pipe.
 - Each provision must extend along the sanitary or storm sewer, on either side of the main, a minimum 10 foot distance perpendicular to the water main exterior.
 - Warning tape shall be required over all mains, all six (6) inch diameter and larger service laterals, and any service lateral not installed perpendicular to the main in accordance with Standard Plate No. 27.
 - All water facilities shall be filled, disinfected, pressure tested, flushed, filled and an acceptable water sample obtained, prior to connection to the LVVWD's distribution system.
 - The contractor must obtain a 21 meters two (2) inches and smaller from LVVWD Central Stores. Telephone 258-5152 forty-eight (48) hours prior to provide.
 - Construction may interrupt service, with LVVWD approval and proper notification, between the hours of 10 PM and 6 AM, Sunday through Thursday. Circumstances may require temporary service feeds be installed, without LVVWD reinforcement. Any temporary service feed must have prior LVVWD approval.
 - All water facility construction materials used must be as listed on the LVVWD's Pre-Approved Materials and Manufacturers Listing for New Facilities, latest revision, or specifically approved on these plans.



INSTALLATION OF DOUBLE CHECK DETECTOR ASSEMBLY (4")
THE DOUBLE CHECK DETECTOR ASSEMBLIES SHALL BE INSTALLED IN ACCORDANCE WITH UDACS PLATE 20B.

ANY BLOCK WALL OR OTHER FENCE 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.

REDUCED PRESSURE PRINCIPLE ASSEMBLY (1 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 L.V.V.W.D.

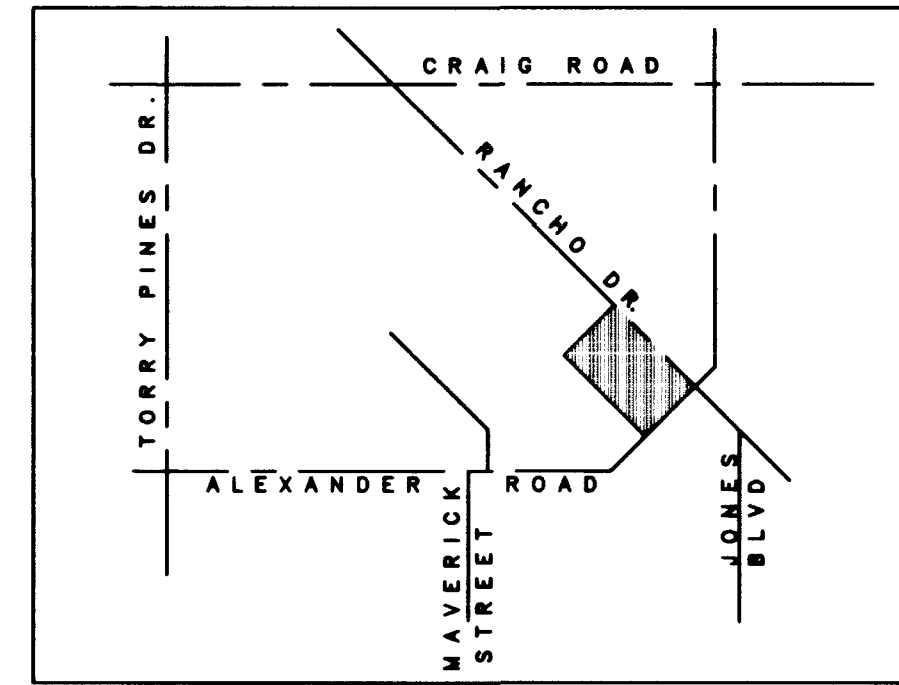
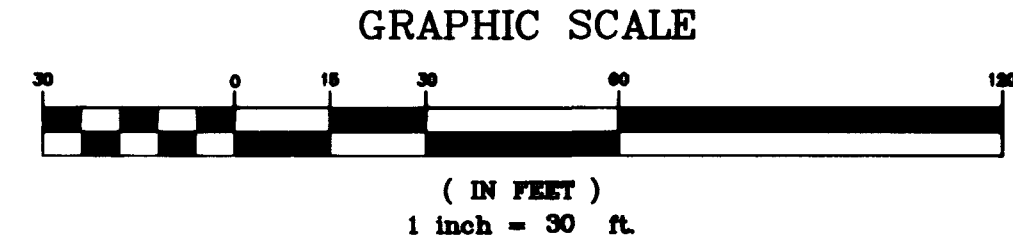
ANY BLOCK WALL OR OTHER FENCE SHALL BE DESIGNED AND CONSTRUCTED AROUND THE OUTSIDE OF THE EASEMENT(S). SO AS TO ALLOW THE DISTRICT DIRECT ACCESS FROM THE ADJACENT RIGHT-OF-WAY.

BASIS OF BEARING

N 36°25'31"W - THE NORTHEASTERLY PROPERTY LINE OF "BIG SKY RANCH ESTATES UNIT NO. 2, BOOK 20 PAGE 57 OF PLATS. CLARK COUNTY RECORDS, NEVADA

BENCHMARK

#7C0012NES. RIVET & PLATE IN TOP OF HEADWALL NORTH SIDE OF RANCHO ROAD AT JONES BOULEVARD ELEV. USED WAS 2263.18 ADD 2.30 FEET TO ALL ELEVATIONS SHOWN HEREON TO OBTAIN ELEVATION RELATIVE TO CURRENT CITY OF LAS VEGAS DATUM (NAVD 88)



LOCATION

6" SEWER DISCHARGES INTO 15" SEWER AT RANCHO DR. (EASEMENT) SEE LOCATION MAP.

SEWER CONTRIBUTION

AVERAGE FLOW: 5760 S.F. @ 0.1 GAL/S.F. = 576.0 GAL
PEAK FLOW 0.65 AC @ 1750 GAL/AC = 1137.5 GAL

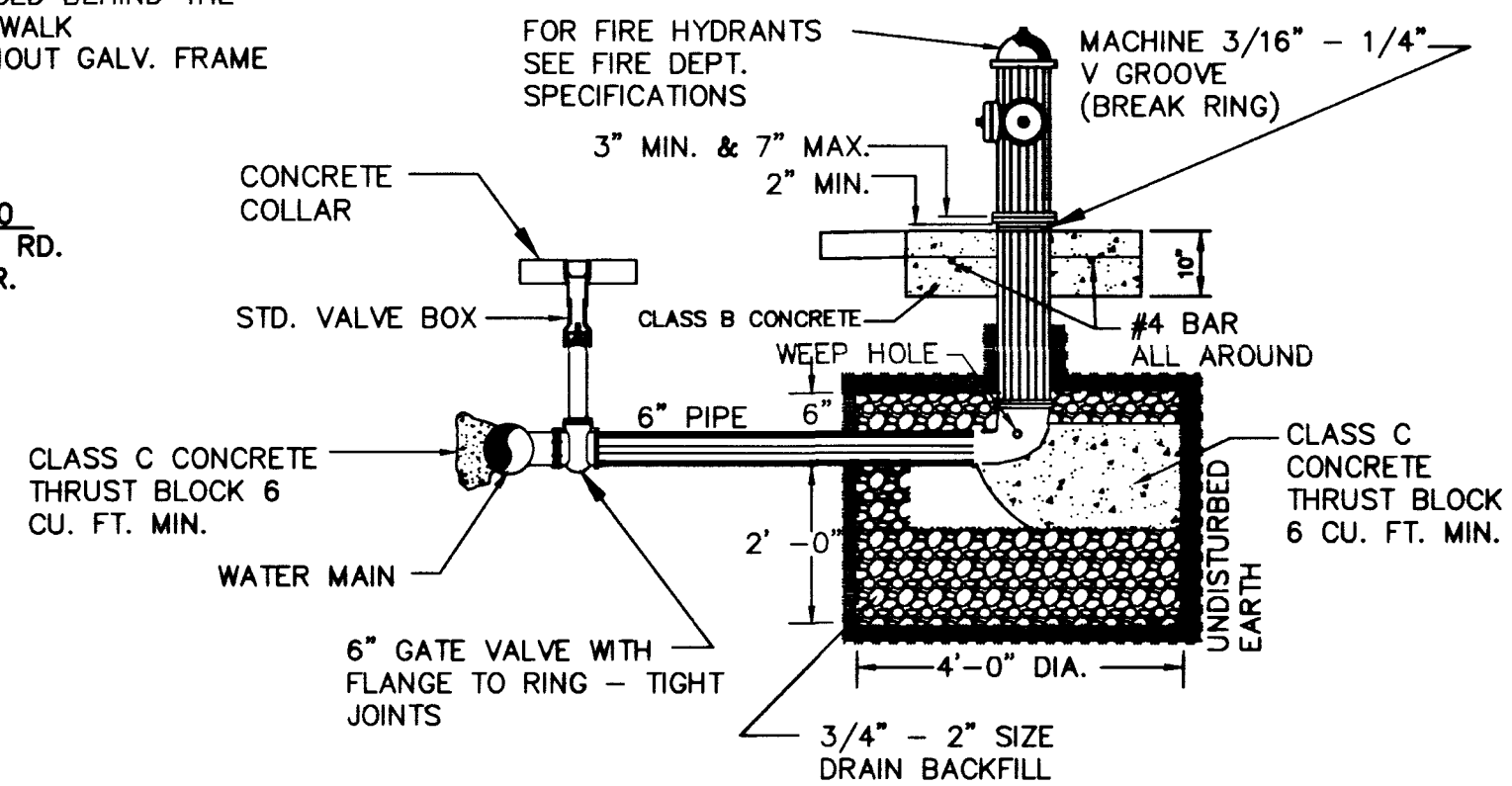
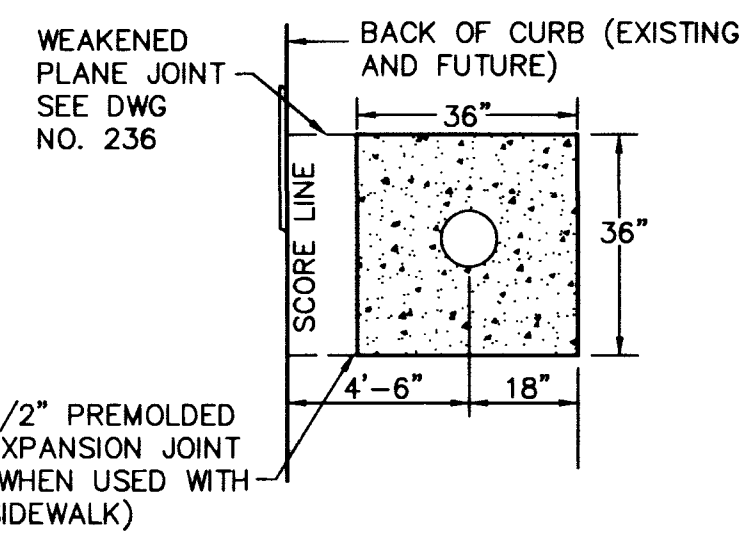
LAS VEGAS FIRE DEPARTMENT

FIRE FLOW IS 1500 GPM AT 20 PSI RESIDUAL PRESSURE

BASED ON:
SQUARE FOOTAGE: 5760
AREA BETWEEN 4-HR AREA
SEPARATION WALLS:
BUILDING HEIGHT: 13' MAX.
NUMBER OF STORIES: 1
OCCUPANCY: V - J
FULL AUTOMATIC FIRE SYSTEM: YES

NOTES:

- NO HYDRANT SHALL BE LOCATED WITHIN 15' OF ANY DRIVEWAY, 6' OF POWER POLE, LIGHT STANDAR, OR ANY OTHER OBSTRUCTION.
- IF HYDRANT IS TO BE INSTALLED IN AN EXISTING SIDEWALK, A FULL PANEL OF THE SIDEWALK SHALL BE REMOVED AND REPLACED AFTER INSTALLATION OF THE HYDRANT.
- WHEN R/W AND FIELD CONDITIONS PERMIT THE FIRE HYDRANT SHALL BE PLACED BEHIND THE SIDEWALK WITHOUT GALV. FRAME

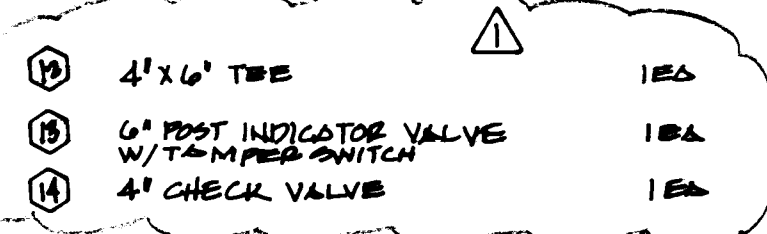


FIRE HYDRANT DETAIL
NTS PER UDS PLATE NO.7

CONSTRUCTION NOTES:

- ALL EXISTING UTILITY STRUCTURES WITH IN CONSTRUCTION AREA SHALL BE ADJUSTED TO MATCH FINISH GRADE (LE, WV, BOX, WM, ANNODE BOX, FH, TEL BOX, ETC.)
- ALL DIMENSIONS TO UTILITIES ARE TO THE CENTERLINE OF PIPE UNLESS INDICATED OTHERWISE
- CONTRACTOR SHALL VERIFY HORIZONTAL AND VERTICAL ALIGNMENT OF EXISTING UTILITIES AND NOTIFY THE DESIGN ENGINEER IMMEDIATELY ON ANY DISCREPANCIES PRIOR TO CONSTRUCTION

7/23/98
DATE
7/23/98
DATE
LAS VEGAS VALLEY WATER DISTRICT



QUANTITIES

- | | | |
|---|---|-------|
| ① | 6" DCDA PER UDS PLATE NO.11B(FEBCO#876) | 1 EA. |
| ② | 8" 90° ELBOW | 2 EA. |
| ③ | FIRE HYDRANT AND VALVE ASSEMBLY PER UDS PLATE NO. 7 | 1 EA. |
| ④ | 1-1/2" WATER METER PER UDS PLATE NO. 11D | 1 EA. |
| ⑤ | 6" CHECK VALVE | 1 EA. |
| ⑥ | 4" 45° ELL | 1 EA. |
| ⑦ | REMOVE CAP AND TIE TO EXIST VALVE | |
| ⑧ | 2" RPPA PER UDS PLATE NO. 11A | 1 EA. |
| ⑨ | 2" 90° ELBOW | 1 EA. |
| ⑩ | FIRE DEPARTMENT CONNECTION | 1 EA. |
| ⑪ | 8"x6" TAPPING SLEEVE AND VALVE | 1 EA. |

PROJECT NAME: **CACTUS CLUB**

This project water plan complies with the Las Vegas Valley Water District's technical requirements. However, this water plan is **NOT APPROVED FOR CONSTRUCTION** at this time and this signature does not provide or imply a water commitment.

LVVWD DATE *6/15/98*

ROBERT R. VOJEVODA & LINDA VOJEVODA
1009 CASINO CENTER BOULEVARD SOUTH
LAS VEGAS, NEVADA 89101
(702) 384-3165

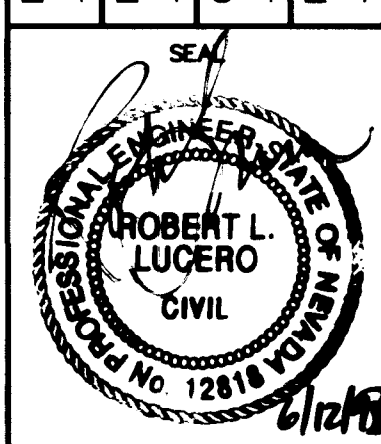
AGRA Infrastructure, Inc.
ENGINEERING GLOBAL SOLUTIONS
304 E. CHARLESTON BOULEVARD, SUITE 100
LAS VEGAS, NEVADA 89101
PHONE: (702) 878-3877

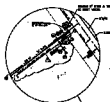
CACTUS CLUB

MASTER UTILITY PLAN
RANCHO TOWN & COUNTRY SHOPPING CENTER
RANCHO DRIVE

SHEET
DRAWN BY: MC
DESIGNED BY: RL/PS
CHECKED BY: PS
PROJECT NO:
SCALE: 1" = 30'

SHEET
C6
6 of 9 SHEETS
DRAWING NO.
107-V2890





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DATE OF DRAWING
 1/1/1977

DESCRIPTION
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IF ANY CHANGES ARE MADE TO THIS PLAN, THE OWNER SHALL BE RESPONSIBLE FOR THE CHANGES.

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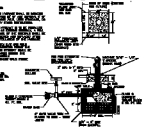
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DATE OF DRAWING		1/1/1977	
DESCRIPTION		THE SITE IS A PLANNED SITE...	
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CHECKED BY		J. L. L. L.	
APPROVED BY		J. L. L. L.	
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SHEET NO.		1 OF 1	
PROJECT NO.		123456	
CLIENT		ABC COMPANY	
LOCATION		123456	
DATE		1/1/1977	
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CHECKED BY		J. L. L. L.	
APPROVED BY		J. L. L. L.	
SCALE		1" = 100'	
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PROJECT NO.		123456	
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