

- 1) INSTALL FIRE HYDRANT ASSEMBLY PER C.C. AREA STD. DWG. NO. 516. (INCLUDES 6" TEE, 6" W.L. & 6" GATE VALVE)
- 2) INSTALL 8" TEE
- 3) INSTALL 8" GATE VALVE
- 4) INSTALL 8" 90° BEND
- 5) INSTALL 8" 45° BEND
- 6) INSTALL 8" 22.5° BEND
- 7) INSTALL 8" 11.25° BEND
- 8) INSTALL 8"x8"x6" CROSS
- 9) INSTALL 8"x8" CROSS  
2" WATER SERVICE LATERAL W/ 2" R.P.P.A.
- 10) INSTALL 2" BLOW-OFF ASSEMBLY (TYP.)
- 11) INSTALL ONE 3/4" WATER SERVICE METER (PRIVATE) AND ONE 1" WATER SERVICE LATERAL.
- 12) TRENCH SECTION PER UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR WASTEWATER COLLECTION SYSTEMS (UDCSCS) STD. DWG. NO. SD-16A.
- 13) INSTALL 6" SEWER LATERAL CONNECTION PER (UDCSCS) STD. DWG. SD-17
- 14) INSTALL ONE 8"x3" FMCT WITH A 8" R.P.P.A.
- 15) INSTALL 8" TAPPING TEE W/ 8" GATE VALVE
- 16) 15' x 30' CNLV UTILITY EASEMENT.
- 17) INSTALL POST INDICATOR VALVE PER CLV FIRE DEPARTMENT SPECIFICATIONS.
- 18) INSTALL 6" 45° BEND.
- 19) INSTALL 6" 90° BEND.
- 20) INSTALL 6" TEE.
- 22) INSTALL 8" x 6" REDUCER
- 23) INSTALL 8" CAP
- 24) INSTALL 6" CAP
- 25) INSTALL ONE 2" WATER SERVICE METER (PRIVATE) AND ONE 2 1/2" WATER SERVICE LATERAL.

|                                                                                                                                                                                                                                               |                |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| JAMES A. BELL, P.E.<br>CNLV DEPUTY DIRECTOR OF<br>PUBLIC WORKS/CITY ENGINEER                                                                                                                                                                  | DATE           |
| CNLV UTILITIES DIVISION                                                                                                                                                                                                                       | DATE           |
| CNLV WATER SERVICES DIVISION<br><br>CNLV DEPARTMENT                                                                                                         | DATE<br>3-25-9 |
| APPROVAL OF THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR CONSTRUCTION, A COMMITMENT TO SUPPLY WATER SERVICES, OR AN APPROVAL OF ANY VIOLATION OF CNLV WATER SERVICES DISTRICT RULES AND REGULATIONS OR DESIGN CONSTRUCTION STANDARDS |                |

FIRE FLOW REQUIREMENT IS 1,875 GALLONS PER  
MINUTE AT 20 PSI RESIDUAL PRESSURE.

BASED ON:

SQUARE FOOTAGE 20,300

LARGEST AREA BETWEEN 20,300  
4-HOUR FIRE SEPARATION WALLS

BUILDING HEIGHT 21 FT

NUMBER OF STORIES 1

TYPE OF CONSTRUCTION V NR

OCCUPANCY COMMERCIAL

FIRE SPRINKLER SYSTEM ALL BUILDINGS

**WL** \_\_\_\_\_ WATERLINE  
**SS** \_\_\_\_\_ SEWER LINE

 WATER SERVICE LATERAL, METER AND RPPA  
(RPPA SHOWN IS GRAPHICAL LOCATION ONLY, CONTRACTOR TO PLACE RPPA PER DESIGN STANDARDS).

 SEWER LATERAL WITH CLEANOUT

 SEWER MANHOLE

 FIRE HYDRANT ASSEMBLY (INCLUDES 8"x6" TEE 6" GATE VALVE)

 BLOW-OFF ASSEMBLY

| AVERAGE DAILY FLOW                 | PEAK FLOW                                                                                                                                                        |
|------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 36 DU's = 36 ERU's                 | 9,000 GPD/1,000,000 GPD = 0.009 MGPD                                                                                                                             |
| 36 ERU's x 250 GPD/ERU = 9,000 GPD | FROM TABLE C-3, PAGE T-3 OF<br>CLARK COUNTY SANITATION DISTRICT<br>PEAK HOUR FACTOR = 3.5<br>PEAK FLOW= 3.5 x 9,000 GPD = 31,500 GPD<br>31,500 GPD = 0.0315 MGPD |

NOTE:  
NO BUILDINGS, STRUCTURES OR TREES WILL BE PLACED UPON, OVER OR UNDER ANY CITY EASEMENT, NOTED HEREAFTER, EXCEPT THAT AN EASEMENT CAN BE IMPROVED AND USED FOR STREET, ROAD OR DRIVEWAY PURPOSES AND FOR OTHER UTILITIES, IN SO FAR AS SUCH USE DOES NOT INTERFERE WITH THE OPERATION AND MAINTENANCE OF THE CITY'S FACILITIES WITHIN THE EASEMENT. SHOULD THE CITY ACT TO REPAIR ANY OF ITS FACILITIES WITHIN THE EASEMENT, THE CITY IS NOT RESPONSIBLE FOR REPAIR OR RECONSTRUCTION OF ANY PROPERTY ADJACENT TO THE EASEMENT.

3" PVC WL - 2482 LF  
 90° BENDS - 3 EA.  
 45° BENDS - 5 EA.  
 22.5' Y BEND - 1 EA.  
 11.25' BENDS - 1 EA.  
 GATE VALVES - 8 EA.  
 TEE - 2 EA.  
 3" PVC WL - 304 LF  
 45° BENDS - 2 EA.  
 3" X 6" REDUCER - 2 EA.  
 3" X 8" X 6" TEE - 10 EA.  
 2" BLOW OFF ASSEMBLY - 1 EA.  
 1" SERV. LAT W/3/4" METER - 22 EA.  
 14"x14"x8" TAPPING SLEEVE - 1 EA.  
 FIRE HYDRANTS (PUBLIC) - 10 EA.  
 (INCLUDES 6" WL., GATE VALVE & 6" TEE)  
 6"x3" FMCT W/8" R.P.P.A. - 1EA.

2631 28 35368

**Call  
before you  
Overhead**  
1-702-593-6111  
NEVADA POWER ENVIRONMENT AND  
SAFETY SERVICES DEPARTMENT

**Call  
before you  
Dig**  
-800-227-2600

GRAPHIC SCALE

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

SAN. MH# 14  
RIM = 2242.3±  
INV. IN= 36.12  
INV. OUT= 35.9  
SAN. MH# 13  
RIM = 2242.6±  
INV. IN= 36.55  
INV. OUT= 36.35/

EX. SAN. MH# 14  
RIM = 2242.6±  
INV. IN= 35.88  
INV. OUT= 12.56

|    |         |
|----|---------|
| ✓  | 3/28/98 |
| ✓  | 3/25/98 |
| ✓  | 3/25/98 |
| ✓  | 3/25/98 |
| r. | Date    |

**PBS**  
POST.  
BUCKLEY,  
SCHUH &  
JERNIGAN

901 N. Green Valley Pkwy.,  
Suite 100 • Nevada, 89014  
Telephone: 702/263-7275  
Fax: 702/263-7200

ENGINEERING • PLANNING • SURVEYING • CONSTRUCTION SERVICES



**REAL HOME, INC.**

RANCHO BUSINESS PARK  
 UTILITY PLAN  
 SHEET 1

|                         |                 |                   |            |                |
|-------------------------|-----------------|-------------------|------------|----------------|
| Job Number<br>51988     | Drawn by<br>JDA | Scale<br>1" = 40' | File No.   | 988IMP         |
|                         |                 |                   | Checked by | SRF            |
|                         |                 |                   | Date       | MARCH 30, 1997 |
| Sheet Number<br>8 OF 17 |                 |                   |            |                |

|                  |                    |
|------------------|--------------------|
| PLANNING: 098 08 | PILOT DATE: 7/2/07 |
|------------------|--------------------|

0  
1  
2  
3  
4  
5  
6  
7  
8  
9

[illegible]