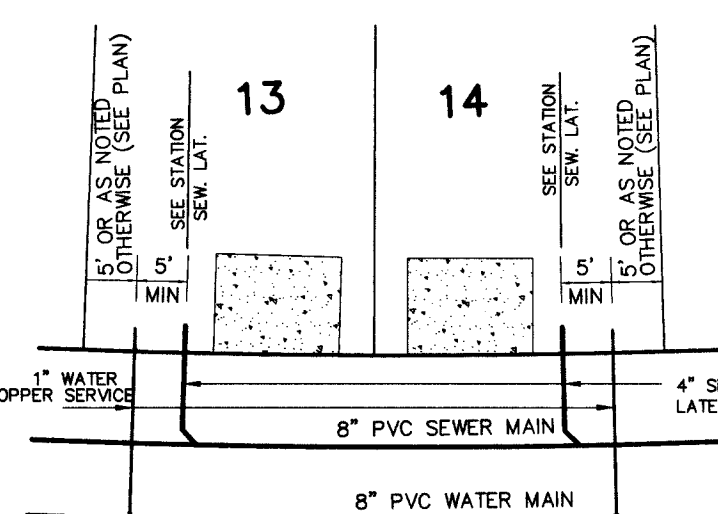


**REDUCED PRESSURE PRINCIPLE ASSEMBLY (1) 1"**  
APPROVED REDUCED PRESSURE PRINCIPLE ASSEMBLY(S) SHALL BE INSTALLED PER THE UDACS PLATE NO. 11A. NO WATER SHALL BE TAKEN FROM A SERVICE REQUIRING BACK FLOW PREVENTION UNTIL THE REDUCED PRESSURE PRINCIPLE ASSEMBLY HAS BEEN SUCCESSFULLY TESTED BY THE LVWD. ANY BLOCK WALL OR OTHER FENCE MATERIAL SHALL BE DESIGNED AND CONSTRUCTED AROUND THE OUTSIDE OF THE EASMENT(S) TO ALLOW THE DISTRICT DIRECT ACCESS FROM THE ADJACENT RIGHT-OF-WAY. EASEMENTS SHALL BE CLEARLY MARKED OR STAKED PRIOR TO THE START OF CONSTRUCTION.

**NOTE**  
LOTS 24-38, 86-97, 105-110  
THIS PROPERTY MAY HAVE STATIC WATER PRESSURE IN EXCESS OF 80 PSI. THE UNIFORM PLUMBING CODE REQUIRES THAT INDIVIDUAL, ON-SITE (PRIVATE), PRESSURE REDUCING VALVES BE INSTALLED WHENEVER THE PRESSURE EXCEEDS 80 PSI. PRV'S ARE THE DEVELOPER'S RESPONSIBILITY AND WILL NOT BE INSPECTED OR INCLUDED IN THE ACCEPTANCE OF LVWD FACILITIES.

**NOTE TO CONTRACTOR**  
INSTALL PIPELINE MARKER BALLS IN TRENCH ABOVE EACH HORIZONTAL ELBOW FITTING PER UDACS PLATE NO. 27.

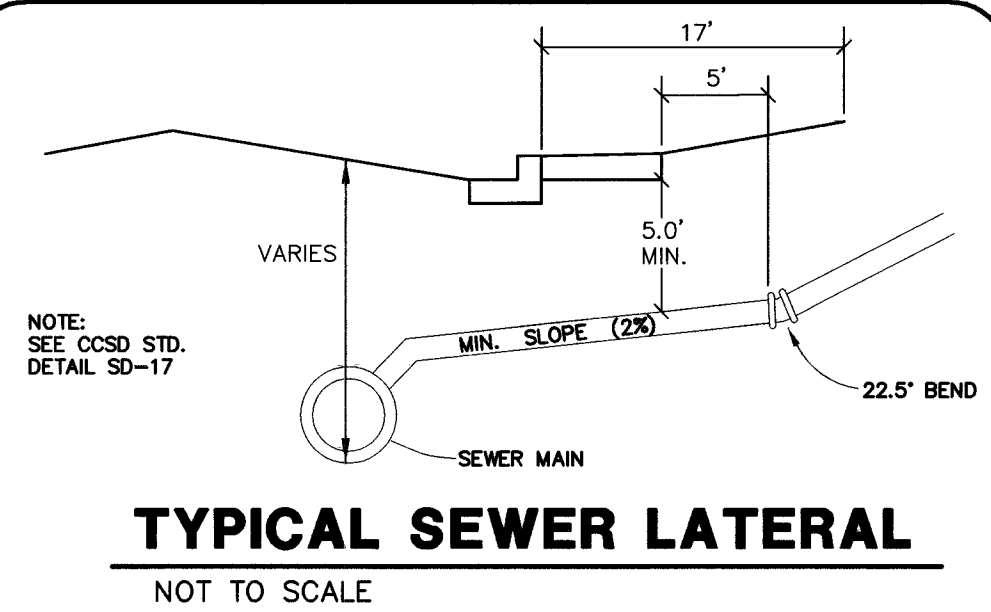


**Call before you Dig.**  
1-800-227-2600  
UNDERGROUND SERVICE (USA)

### FIRE FLOW CALCULATIONS

FIRE FLOW REQUIREMENT IS 1500 gallons per minute at 20 psi residual pressure.

Based on: BUILDING A:  
SQUARE FOOTAGE: < 3600 SF  
LARGEST AREA BETWEEN 4-HOUR AREA SEPARATION WALLS: N/A SF  
BUILDING HEIGHT: 30 FEET  
NUMBER OF STORIES: 2  
TYPE OF CONSTRUCTION: TYPE V-N  
OCCUPANCY: R3  
FULL AUTOMATIC FIRE SPRINKLER SYSTEM: NO



| BENCHMARK  |                                                                                                                          |                |                  |
|------------|--------------------------------------------------------------------------------------------------------------------------|----------------|------------------|
| CLV BM NO. | DESC.                                                                                                                    | NAVD 88 DATUM  | NAVD 88 DATUM    |
| D368 3     | U.S.C. & G.S. BRASS DISC SET IN ROCK ON THE EAST SIDE OF CHARLESTON BOULEVARD AND SOUTH OF THE RED ROCK DETENTION BASIN. | 3246.71 (FEET) | 989.599 (METERS) |

### SEE SHEET C-03 FOR SEWER MANHOLE TABLE

ALL SEWER/STORM DRAINS CROSSING WATER LINE MUST CONFORM TO SECTION 2.19 OF THE UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR POTABLE WATER SYSTEMS (UDACS) FOR WATER AND STORM MAIN CROSSINGS AND CLEARANCES.

**NOTE:**  
ALL PRIVATE ST. ARE P.U.E.'S. PUBLIC SEWER EASEMENTS AND PUBLIC DRAINAGE EASEMENTS TO BE PRIVATELY MAINTAINED.

SERVICE LATERAL FOR LOTS : 7-38, 76-92, 110 WILL BE TAPPED ON EXISTING MAIN BY OWNER'S CONTRACTOR UNDER DIRECTION OF THE LVWD.

### CONSTRUCTION NOTES

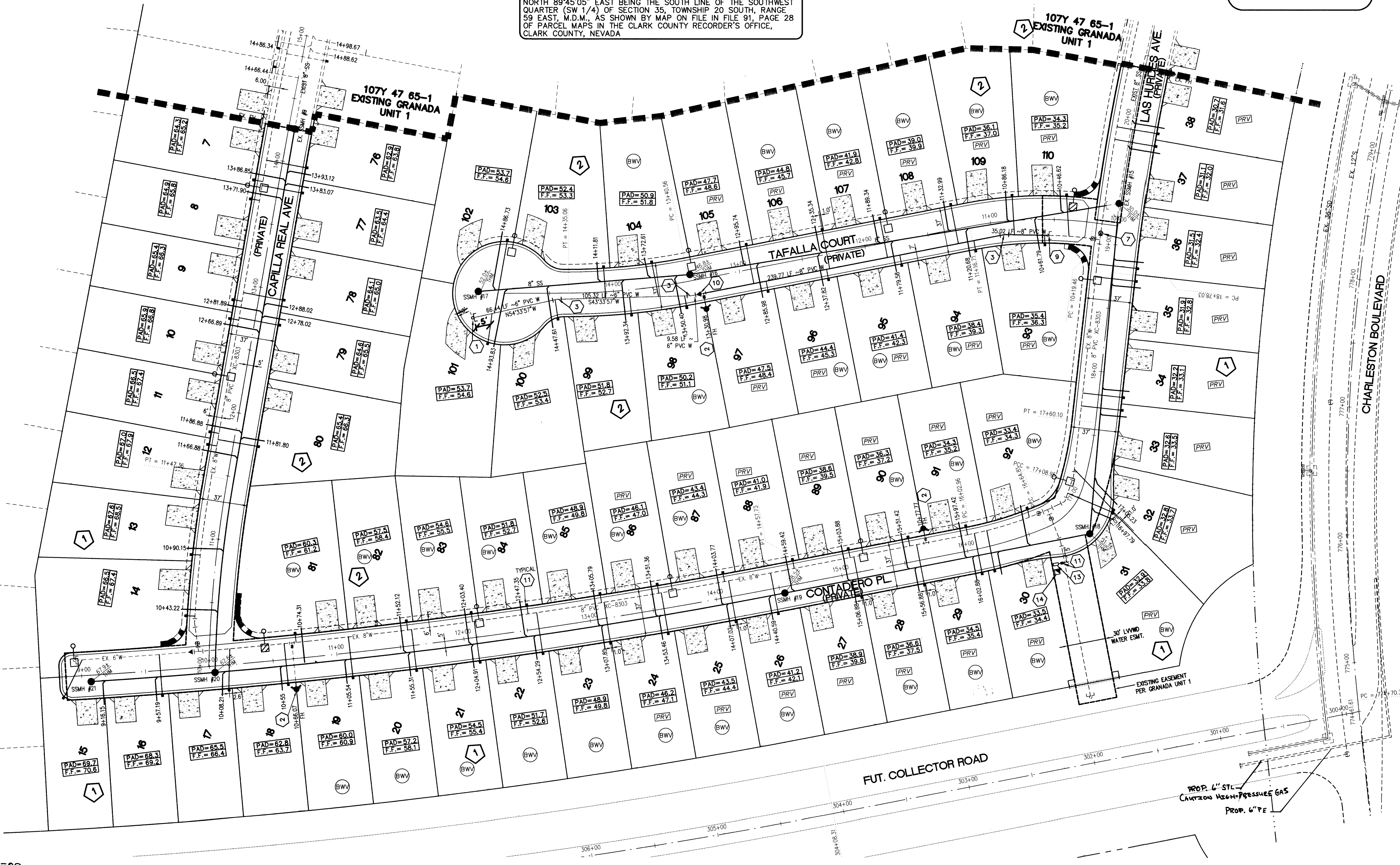
- CAP & 2" B.O. ASSEMBLY (PER UDACS PLT.4A)
- FIRE HYDRANT ASSEMBLY (PER UDACS PLT. 7)
- 8" 11 1/4" BEND
- REMOVE EXISTING B.O. ASSEMBLY & CAP AND CONNECT TO EX. WATERLINE. CONTRACTOR SHALL VERIFY SIZE, LOCATION, AND INVERT OF EX. WATERLINE (SEE UDACS PLATE 4A NOTE 1)
- 8" x 6" REDUCER
- UDACS 1D (5/8")
- RPPA PER UDACS PLATE 11A (1")
- SERVICE PEDESTAL FOR IRRIGATION METER
- Install 8" Gate Valve

### SEWER

DAILY AVERAGE: 77 ERU'S X 250 GPD/ERU = 19,250 GPD  
PEAK FLOW: 19,250 X 3.4 (PF) = 65,450 GPD

### BASIS OF BEARINGS

NORTH 89°45'05" EAST BEING THE SOUTH LINE OF THE SOUTHWEST QUARTER (SW 1/4) OF SECTION 35, TOWNSHIP 20 SOUTH, RANGE 59 EAST, M.D.M., AS SHOWN BY MAP ON FILE IN FILE 91, PAGE 28 OF PARCEL MAPS IN THE CLARK COUNTY RECORDER'S OFFICE, CLARK COUNTY, NEVADA



### UTILITY LEGEND

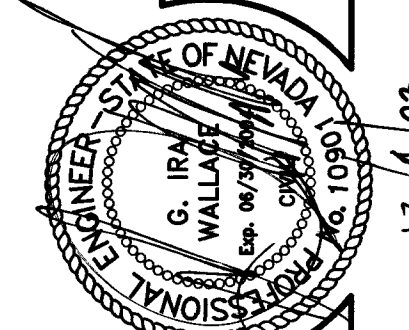
- 1** BLOCK NUMBER
- PRV** PRESSURE REDUCING VALVE
- W** WATER LINE
- W** EXISTING WATER LINE
- W** WATER SERVICE 5/8" TYP.
- G.V.** GATE VALVE
- EX. G.V.** EXISTING GATE VALVE
- Cap** CAP W/ 2" BLOW OFF
- Fire** FIRE HYDRANT
- EX. Fire** EXISTING FIRE HYDRANT
- PRV** PRESSURE REDUCING VALVE
- B.W.V.** BACK WATER VALVE
- Sewer** SEWER LATERAL
- Sewer** SEWER LINE/SSMH
- EX. SSMH** EXISTING SEWER MANHOLE
- Concrete** CONCRETE DRIVEWAY
- FF = 19.9** FINISH FLOOR
- Summerlin** SUMMERLIN TYPE 3B 100W HPS LUMINAIRE
- Summerlin** SUMMERLIN TYPE 3A 150W HPS LUMINAIRE
- Future** FUTURE STREET LIGHT

APPROVED FOR CONSTRUCTION

*Phil Ray* 1-19-04  
CEV FIRE DEPARTMENT DATE

APPROVED FOR CONSTRUCTION

*John* 2/26/04  
LAS VEGAS VALLEY WATER DISTRICT DATE



WILLIAM LYON HOMES

GRANADA AT SUMMERLIN VILLAGE 23A PARCEL D UNIT NO. 2

UTILITY PLAN

SHEET

C-04

4 OF 10 SHTS

JOB NO. 471009

NOT FOR CONSTRUCTION

DESIGN: \_\_\_\_\_  
DRAWN: \_\_\_\_\_  
CHECK: \_\_\_\_\_  
ISSUE DATE: 11-10-03  
PLOT TIME: 14:32:59  
REV. DATE: \_\_\_\_\_  
DESCRIPTION: \_\_\_\_\_

G. C. WALLACE, INC.  
Engineers/Planners/Surveyors  
1555 SOUTH RAINBOW BLVD., LAS VEGAS, NEVADA 89146  
TELEPHONE: (702) 804-2000 • FAX: (702) 804-2299  
E: 471-009@wcg.com