



**ESTIMATE OF QUANTITIES UNIT 1 / LEGEND**

WATER	PUBLIC
① FIRE HYDRANT ASSEMBLY (PER UDACS PLATE No. 7)	8 EA.
② 4" 45° ELBOW	0 EA.
③ 4" 22° ELBOW	1 EA.
④ 4" 11° ELBOW	3 EA.
⑤ 4" X 8" TEE	0 EA.
⑥ CAP 1/2" B.O. ASSEMBLY (PER UDACS PLATE No. 4)	4 EA.
⑦ 8" 6" REDUCER	3 EA.
⑧ GATE VALVE	2 EA.
⑨ 5/8" METER (PER UDACS PLATE 1B)	82 EA.
⑩ 1" METER W/ 1" RPPA (PER UDACS PLATE 1D & 11A)	1 EA.
⑪ 8" PVC WATER MAIN (PUBLIC)	544 LF.
⑫ 8" PVC WATER MAIN (PRIVATE)	1,071 LF.
⑬ 8" DIP WATER MAIN (PUBLIC)	40 LF.
<b>SEWER</b>	
⑭ STANDARD MANHOLE PUBLIC	18 EA.
⑮ 4" SEWER LATERALS (PRIVATE)	2,607 LF.
⑯ 4" SEWER WYES (PRIVATE)	91 EA.
⑰ BACKWATER VALVES (PRIVATE)	0 EA.
⑱ 8" SEWER MAIN (PUBLIC)	3,439 LF.

**SEWER CONTRIBUTION (BASED ON 17 LOTS)**  
 AVERAGE DAILY FLOW = 0.00425 MGD.  
 PEAK FLOW (PF=3.5) = 0.014875 MGD.

- DRIVEWAY LOCATION (SCHEMATIC ONLY) 82 EA.
- POC POINT OF CONNECTION 8 EA.

**LAS VEGAS FIRE DEPARTMENT**

FIRE FLOW REQUIREMENT IS 1,500 GALLONS/MIN. AT 20 LBS./SQ.IN. RESIDUAL.  
 BASED ON:  
 SQUARE FOOTAGE: 2800  
 LARGEST AREA BETWEEN SEPARATION WALLS:  
 HEIGHT: 2 STORY  
 TYPE OF CONSTRUCTION:  
 EXPOSURES: 10' MIN.  
 SPRINKLER SYSTEM: NONE  
 OCCUPANCY: SINGLE FAMILY RESIDENCE  
 ROOF CONSTRUCTION: CONCRETE TILE  
 REVIEWED BY:  
 DATE:  
 PROVIDE FIRE LANE IDENTIFICATION PER CITY ORD. 3677

**APPROVAL:**

LAS VEGAS VALLEY WATER DISTRICT DATE  
 CITY OF LAS VEGAS FIRE MARSHAL DATE

NEVADA POWER COMPANY DATE  
 NEVADA POWER COMPANY APPROVAL IS ONLY FOR THE LOCATION AND CLEARANCE OF STREET LIGHT AND SIGNAL LIGHT INSTALLATION, AND CLEARANCE OF STREET LIGHT AND SIGNAL LIGHT INSTALLATION.

**SERVICE LATERALS AND METERS:**  
 SERVICE LATERALS FOR LOTS 408-423, 432-438, & 522-528 WILL BE TAPPED ON EXISTING MAIN BY OTHER'S CONTRACTOR UNDER DIRECTION OF THE LVWD.

**REDUCED PRESSURE PRINCIPLE ASSEMBLY (RPPA)**  
 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 LVWD. 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.

**NOTE:** 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:** THE DISTRICT CAN NOT GUARANTEE A WATER-TIGHT SHUTDOWN WHERE CONNECTIONS OR REPAIRS TO EXISTING FACILITIES ARE REQUIRED. THE CONTRACTOR SHALL ENSURE ALL LABOR AND EQUIPMENT IS AVAILABLE TO REMOVE FUGITIVE WATER WHICH MAY IMPEDIC CONSTRUCTION AT ALL TIMES. COORDINATION WITH INSPECTION DIVISION MUST TAKE PLACE PRIOR TO ANY TRIAL SHUTDOWN. CONTRACTOR TO INSTALL TEMPORARY SERVICE TO ENSURE PROPER SHUTDOWN IN THE EVENT NO OTHER APPURTENANCES ARE AVAILABLE.

**NOTE:** INSTALL MARKER BALLS OVER ALL 11.25, 22.5, 45, AND 90 DEGREE BENDS.

**PROJECT BENCHMARK**  
 PROJECT DATUM: NAVD88  
 CITY OF LAS VEGAS BENCHMARK 1LV90-13NES  
 NAVD88 ELEVATION: 710.9608 METERS (2332.54 FEET)  
 ONLY BM 413148, DECATUR BLVD. & GRAND TETON DR. 100' SW OF SECTION CORNER NEXT TO METAL POWER POLE  
 NAVD 88 ELEV=710.953 METERS (2332.52 FEET)  
 1" DIAMETER CONCRETE MONUMENT 77 FEET SOUTH & 54 FEET WEST OF N.E. CORNER SEC. 13T19R60E 10' EAST OF LARGE POWER POLE.

**BASIS OF BEARINGS**  
 THE BASIS OF BEARINGS FOR THIS PROJECT IS GRID NORTH AS DEFINED BY THE NEVADA COORDINATE SYSTEM OF 1983 (NCS83), EAST ZONE, (2701), DETERMINED BY CLARK COUNTY GIS CONTROL POINTS 802, 803, 804, AND 805, AS SHOWN ON A RECORD OF SURVEY ON FILE IN THE CLARK COUNTY, NEVADA, RECORDER'S OFFICE, IN BOOK 88 OF SURVEYS, AT PAGE 53.

**STREET LIGHT NOTE:**  
 ALL HAND HOLE COVERS MUST BE INSTALL. POLE CAPS POURED AND PULLBOX LID BOLTED DOWN PRIOR TO ENERGIZING CIRCUIT ALL WIDE MUST HAVE INSULATION.

Call before you Dig 1-800-227-2600  
 Call before you OVERHEAD 1-702-593-6111

**NOTE:** CONTRACTOR SHALL VERIFY HORIZONTAL AND VERTICAL LOCATION OF EXISTING UTILITIES AND NOTIFY THE DESIGN ENGINEER IMMEDIATELY OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.

**KB HOME**  
 750 PILOT ROAD, SUITE F  
 LAS VEGAS, NEVADA 89119  
 (702) 614-2500

**SEWER ASBUILT**

**IRON MOUNTAIN RANCH VILLAGE 4 UNIT 1**

**CITY OF LAS VEGAS**  
 2727 SOUTH HANBROW BOULEVARD LAS VEGAS, NEVADA 89148-5148  
 PH. (702) 873-7550 FAX (702) 382-2597

**neveda** CONSULTING ENGINEERS & PLANNERS • LAND SURVEYORS

DRAWN BY: [ ] OCTOBER 16, 2003  
 DESIGNED BY: [ ]  
 CHECKED BY: [ ]  
 PROJECT NO.: 207404-1  
 SCALE: 1"=40'  
 HORIZ. VERT.

REVISION