

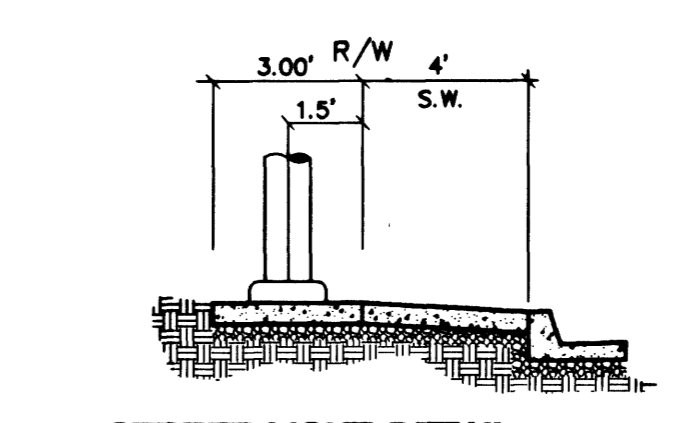
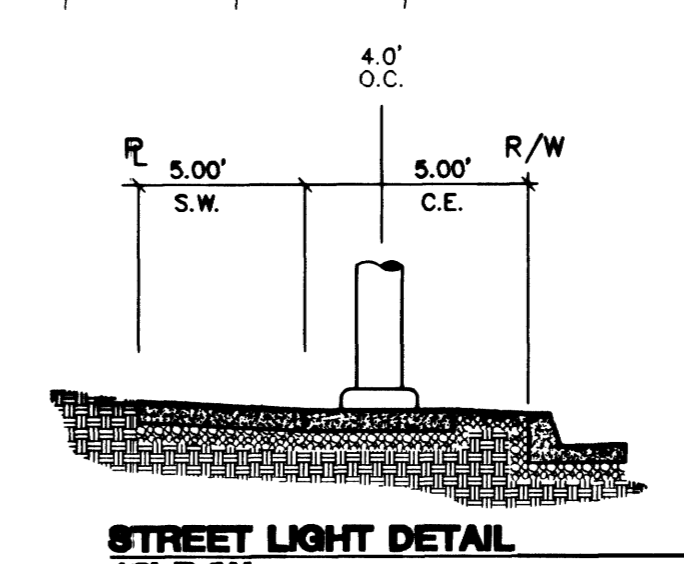
**ESTIMATE OF QUANTITIES / LEGEND**

WATER	PUBLIC
① FIRE HYDRANT ASSEMBLY (INC. S.O.V.)	8 EA.
② 12" GATE VALVE	0 EA.
③ 12" TEE	0 EA.
④ 8" x 8" REDUCER	5 EA.
⑤ 45° ELBOW	2 EA.
⑥ 8" x 8" CROSS	1 EA.
⑦ GATE VALVE	12 EA.
⑧ 22.5° ELBOW	3 EA.
⑨ CAP ONLY	4 EA.
⑩ CAP W/ 2" B.O. ASSEMBLY (PER UDACS PLATE NO. 4)	1 EA.
⑪ SERVICE W/ 3/8" METER (PER UDACS PLATE 1D)	88 EA.
⑫ SERVICE W/ 1" METER & 1" RPPA (PER UDACS PLATE 1D & 11A)	2 EA.
⑬ WATER MAIN (PVC)	277 LF.
⑭ WATER MAIN (PVC)	1328 LF.
⑮ WATER MAIN (D.I.)	146 LF.
⑯ STANDARD MANHOLE (PUBLIC)	16 EA.
⑰ SEWER LATERALS (PRIVATE)	2899 LF.
⑱ SEWER WYES (PRIVATE)	88 EA.
⑲ BACKWATER VALVES (PRIVATE)	2 EA.
⑳ SEWER MAIN (PUBLIC)	3162 LF.

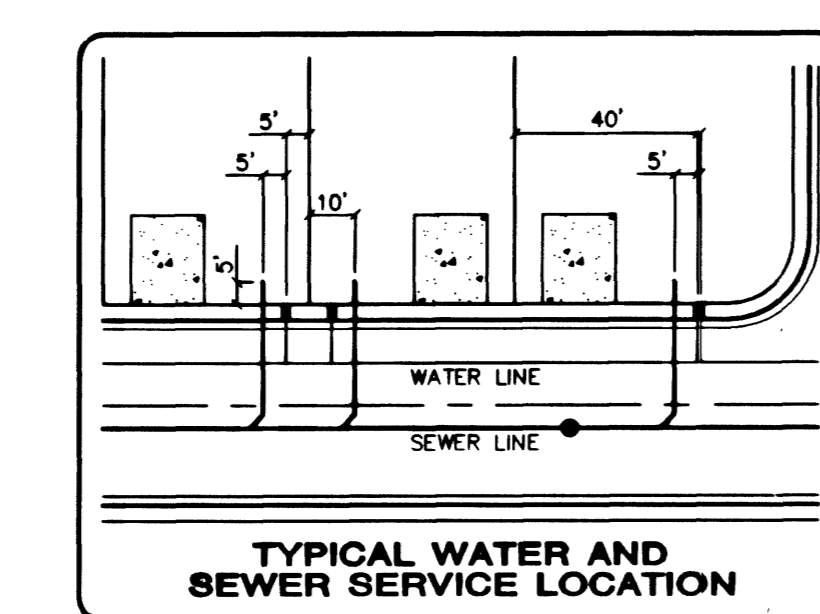
**SEWER CONTRIBUTION (BASED ON 88 LOTS)**

AVERAGE DAILY FLOW = 0.022 MGD.  
PEAK FLOW (PF=3.5) = 0.077 MGD.

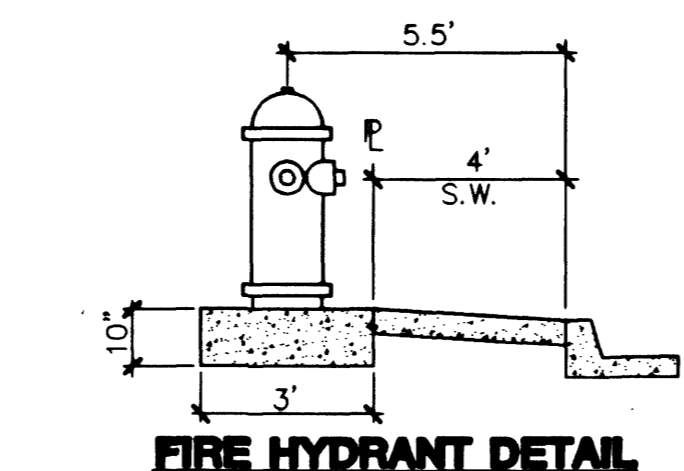
① DRIVEWAY LOCATION (SCHEMATIC) 88 EA.  
② POINT OF CONNECTION 3 EA.



APPROVAL OF THESE PLANS FOR THE SERVICE LATERALS AND METERS TO FUTURE LOTS WILL NOT BE CONSTRUED AS A COMMITMENT FOR WATER SERVICE TO THESE PROPERTIES



**REDUCED PRESSURE PRINCIPLE ASSEMBLY (1) 1" APPROVED REDUCED PRESSURE PRINCIPLE ASSEMBLY (R) 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. EASEMENTS SHALL BE CLEARLY MARKED OR STAKED PRIOR TO THE START OF CONSTRUCTION.**



**FUTURE SERVICE LATERALS AND METERS (1) 1" FUTURE PARK INSTALLATION OF SERVICE LATERALS (1 TO 2') FOR FUTURE LOTS SHALL BE INSTALLED PER THE UDACS PLATE 1D IF ANY OF THE SERVICE LATERALS TO BE INSTALLED FOR FUTURE LOTS ARE INCORRECTLY LOCATED OR ARE NOT USED FOR ANY REASON WHEN THE LOTS ARE DEVELOPED, THE DEVELOPER SHALL ABANDON THE LATERALS AT THE CONNECTION TO THE ACTIVE MAIN IN ACCORDANCE WITH THE DISTRICT'S STANDARDS AND AT THE DEVELOPER'S EXPENSE.**

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, PRVS ARE THE DEVELOPER'S RESPONSIBILITY AND WILL NOT BE INSPECTED OR INCLUDED IN THE ACCEPTANCE OF LVVWD FACILITIES.

**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. 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 33.

**Call before you Dig**  
1-800-227-2600

**Call before you OVERHEAD**  
1-702-583-6111

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

**PROJECT BENCHMARK**  
PROJECT DATUM: NAVD88  
CITY OF LAS VEGAS BENCHMARK 1LV90-13NES NAVD88 ELEVATION: 710.9608 METERS (2332.54 FEET)  
ONLY BM 413148, NAVD 88 ELEV=710.953 METERS (2332.52 FEET) 1" DIAMETER CONCRETE MONUMENT SEC. 13T19R60E 10' EAST OF LARGE POWER POLE.

**LAS VEGAS FIRE DEPARTMENT**  
FIRE FLOW REQUIREMENT IS 1,500 GALLONS/MIN. AT 20 LBS./SQ.IN. RESIDUAL.  
BASED ON:  
SQUARE FOOTAGE: 2600  
LARGEST AREA BETWEEN SEPERATION WALLS:  
HEIGHT: 2 STORY  
TYPE OF CONSTRUCTION: V M  
EXPOSURES: 10' MIN.  
SPRINKLER SYSTEM: NONE  
OCCUPANCY: SINGLE FAMILY RESIDENCE  
ROOF CONSTRUCTION: CONCRETE TILE  
REVIEWED BY: [Signature]

**APPROVAL:**  
[Signature] 3.7.02 DATE  
LAS VEGAS VALLEY WATER DISTRICT  
[Signature] 2.5.02 DATE  
CITY OF LAS VEGAS FIRE MARSHAL

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

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

**IRON MOUNTAIN RANCH VILLAGE 7 UNIT 1**

**MASTER UTILITY PLAN**

DRAWN BY: [Signature] SEPTEMBER 2001  
DESIGNED BY: [Signature]  
CHECKED BY: [Signature]  
PROJECT NO: 5920-1  
SCALE: 1"=40' HORZ. VERT.

**PROFESSIONAL ENGINEER STATE OF NEVADA**  
KENNETH MICROLSON  
No. 10559 EXPIRES 12/31/02

SHEET  
**UT1**  
5 of 26 SHEETS  
DRAWING NO.  
307Y-4604-7-1

2727 SOUTH RAINBOW BOULEVARD LAS VEGAS, NEVADA 89146-5148  
PH. (702) 873-1550 FAX (702) 362-2587  
nvada CONSULTING ENGINEERS • PLANNERS • LAND SURVEYORS