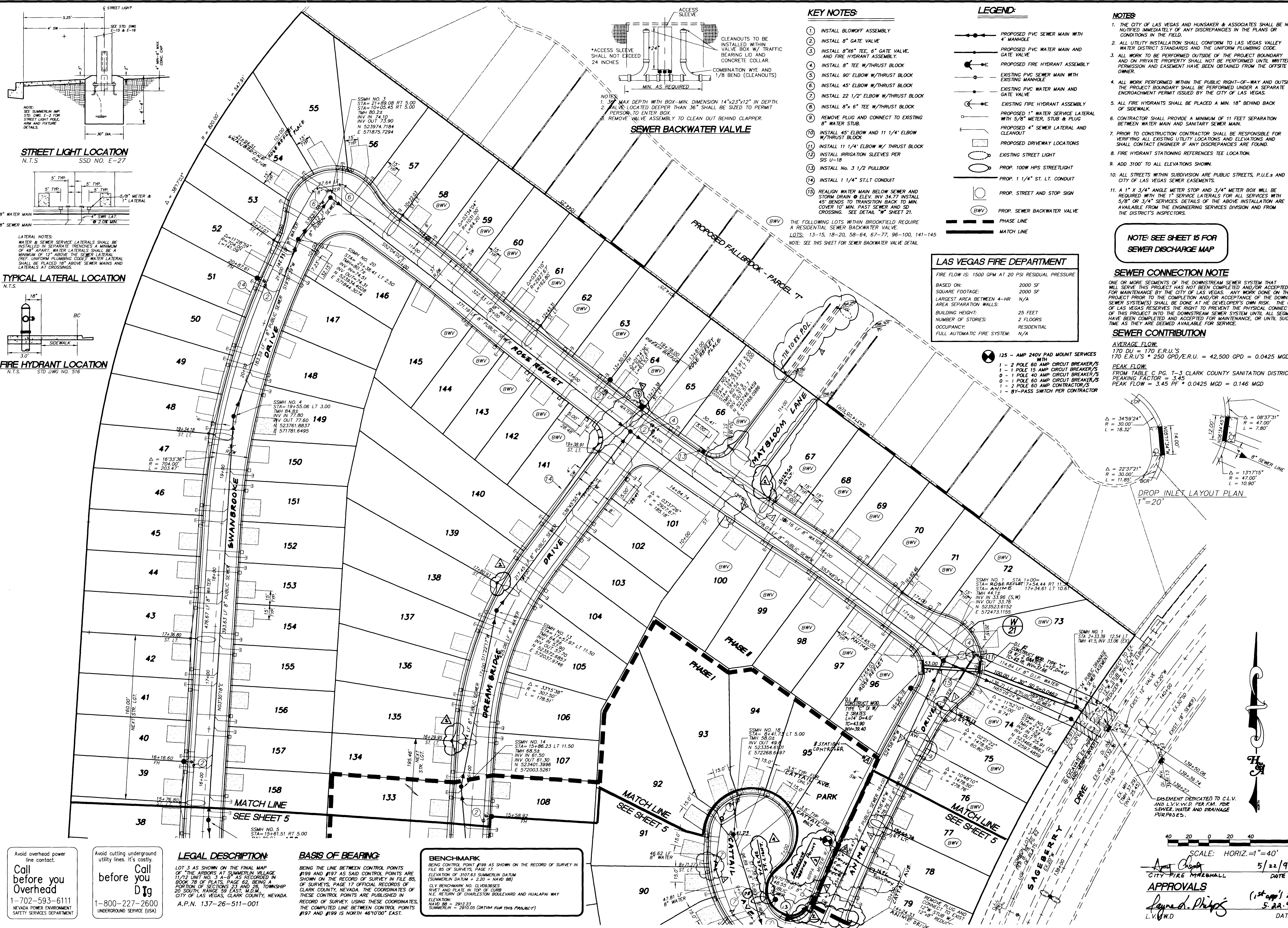
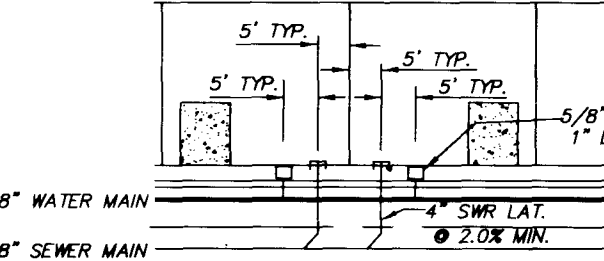
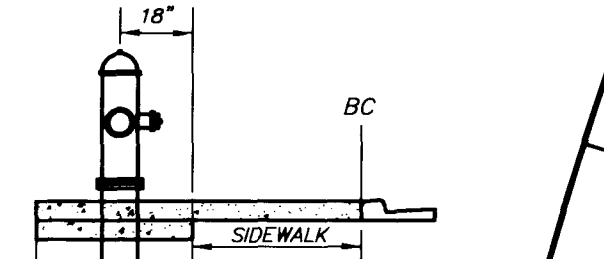




**STREET LIGHT LOCATION**  
N.T.S.  
SSD NO. E-27



**TYPICAL LATERAL LOCATION**  
N.T.S.



**FIRE HYDRANT LOCATION**  
N.T.S.  
STD. DWG. NO. 516

Avoid overhead power line contact.  
**Call before you Overhead**  
1-702-593-6111  
NEVADA POWER ENVIRONMENT SAFETY SERVICES DEPARTMENT

Avoid cutting underground utility lines. It's costly.  
**Call before you Dig**  
1-800-227-2600  
UNDERGROUND SERVICE (USA)

**LEGAL DESCRIPTION:**  
LOT 3 AS SHOWN ON THE FINAL MAP OF "THE ARBORS AT SUMMERLIN VILLAGE" UNIT NO. 3 A-B AS RECORDED IN BOOK 78 OF PLATS, PAGE 62, BEING A PORTION OF SECTIONS 23 AND 26, TOWNSHIP 20 SOUTH, RANGE 28 EAST, M.D.M. CITY OF LAS VEGAS, CLARK COUNTY, NEVADA.  
A.P.N. 137-26-511-001

**BASIS OF BEARING:**  
BEING THE LINE BETWEEN CONTROL POINTS #199 AND #197 AS SAID CONTROL POINTS ARE SHOWN ON THE RECORD OF SURVEY IN FILE 85, OF SURVEYS, PAGE 17, OFFICIAL RECORDS OF CLARK COUNTY, NEVADA. THE COORDINATES OF THESE CONTROL POINTS ARE PUBLISHED IN RECORD OF SURVEY USING THESE COORDINATES, THE COMPUTED LINE BETWEEN CONTROL POINTS #197 AND #199 IS NORTH 46°10'00" EAST.

**BENCHMARK:**  
BEING CONTROL POINT #199 AS SHOWN ON THE RECORD OF SURVEY IN FILE 85 OF SURVEYS, PAGE 17, ELEVATION OF 3707.63 SUMMERLIN DATUM (SUMMERLIN DATUM + 2.20 = NAVD 83)  
CLV BENCHMARK NO. CLV093635  
RIVET AND PLATE IN TOP OF CURB  
N.E. CORNER OF CHARLESTON BOULEVARD AND HUALAPAI WAY  
ELEVATION: NAVD 83 = 2912.23  
SUMMERLIN = 2910.03 (ADJUST FOR THIS PROJECT)

**KEY NOTES:**

1. INSTALL BLOWOFF ASSEMBLY
2. INSTALL 8" GATE VALVE
3. INSTALL 8"x6" TEE, 6" GATE VALVE, AND FIRE HYDRANT ASSEMBLY.
4. INSTALL 8" TEE W/THRUST BLOCK
5. INSTALL 90° ELBOW W/THRUST BLOCK
6. INSTALL 45° ELBOW W/THRUST BLOCK
7. INSTALL 22 1/2° ELBOW W/THRUST BLOCK
8. INSTALL 8"x 6" TEE W/THRUST BLOCK
9. REMOVE PLUG AND CONNECT TO EXISTING 8" WATER STUB.
10. INSTALL 45° ELBOW AND 11 1/4° ELBOW W/THRUST BLOCK
11. INSTALL 11 1/4° ELBOW W/THRUST BLOCK
12. INSTALL IRRIGATION SLEEVES PER SIS U-18
13. INSTALL No. 3 1/2 PULLBOX
14. INSTALL 1 1/4" ST/LT CONDUIT
15. REALIGN WATER MAIN BELOW SEWER AND STORM DRAIN. ELEV. INV. 54.77. INSTALL 45° BENDS TO TRANSITION BACK TO MIN. COVER 10" MIN. PAST SEWER AND SO CROSSING. SEE DETAIL "W" SHEET 21.

THE FOLLOWING LOTS WITHIN BROOKFIELD REQUIRE A RESIDENTIAL SEWER BACKWATER VALVE.  
LOTS: 13-15, 18-20, 58-64, 67-77, 96-100, 141-145  
NOTE: SEE THIS SHEET FOR SEWER BACKWATER VALVE DETAIL.

**LEGEND:**

- PROPOSED PVC SEWER MAIN WITH 4" MANHOLE
- PROPOSED PVC WATER MAIN AND GATE VALVE
- PROPOSED FIRE HYDRANT ASSEMBLY
- EXISTING PVC SEWER MAIN WITH EXISTING MANHOLE
- EXISTING PVC WATER MAIN AND GATE VALVE
- EXISTING FIRE HYDRANT ASSEMBLY
- PROPOSED 1" WATER SERVICE LATERAL WITH 5/8" METER, STUB & PLUG
- PROPOSED 4" SEWER LATERAL AND CLEANOUT
- PROPOSED DRIVEWAY LOCATIONS
- EXISTING STREET LIGHT
- PROP. 100W HPS STREETLIGHT
- PROP. 1 1/4" ST. LT. CONDUIT
- PROP. SEWER BACKWATER VALVE
- PHASE LINE
- MATCH LINE

**LAS VEGAS FIRE DEPARTMENT**  
FIRE FLOW IS: 1500 GPM AT 20 PSI RESIDUAL PRESSURE  
BASED ON:  
SQUARE FOOTAGE: 2000 SF  
LARGEST AREA BETWEEN 4-HR AREA SEPARATION WALLS: N/A  
BUILDING HEIGHT: 25 FEET  
NUMBER OF STORIES: 2 FLOORS  
OCCUPANCY: RESIDENTIAL  
FULL AUTOMATIC FIRE SYSTEM: N/A

**NOTES:**

1. THE CITY OF LAS VEGAS AND HUNSAKER & ASSOCIATES SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES IN THE PLANS OR CONDITIONS IN THE FIELD.
2. ALL UTILITY INSTALLATION SHALL CONFORM TO LAS VEGAS VALLEY WATER DISTRICT STANDARDS AND THE UNIFORM PLUMBING CODE.
3. ALL WORK TO BE PERFORMED OUTSIDE OF THE PROJECT BOUNDARY AND ON PRIVATE PROPERTY SHALL NOT BE PERFORMED UNTIL WRITTEN PERMISSION AND EASEMENT HAVE BEEN OBTAINED FROM THE OFFSITE OWNER.
4. ALL WORK PERFORMED WITHIN THE PUBLIC RIGHT-OF-WAY AND OUTSIDE THE PROJECT BOUNDARY SHALL BE PERFORMED UNDER A SEPARATE ENCROACHMENT PERMIT ISSUED BY THE CITY OF LAS VEGAS.
5. ALL FIRE HYDRANTS SHALL BE PLACED A MIN. 18" BEHIND BACK OF SIDEWALK.
6. CONTRACTOR SHALL PROVIDE A MINIMUM OF 11 FEET SEPARATION BETWEEN WATER MAIN AND SANITARY SEWER MAIN.
7. PRIOR TO CONSTRUCTION CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL EXISTING UTILITY LOCATIONS AND ELEVATIONS AND SHALL CONTACT ENGINEER IF ANY DISCREPANCIES ARE FOUND.
8. FIRE HYDRANT STATIONING REFERENCES TEE LOCATION.
9. ADD 3100' TO ALL ELEVATIONS SHOWN.
10. ALL STREETS WITHIN SUBDIVISION ARE PUBLIC STREETS, P.U.E.S. AND CITY OF LAS VEGAS SEWER EASEMENTS.
11. A 1" X 3/4" ANGLE METER STOP AND 3/4" METER BOX WILL BE REQUIRED WITH THE 1" SERVICE LATERALS FOR ALL SERVICES WITH 5/8" OR 3/4" SERVICES. DETAILS OF THE ABOVE INSTALLATION ARE AVAILABLE FROM THE ENGINEERING SERVICES DIVISION AND FROM THE DISTRICT'S INSPECTORS.

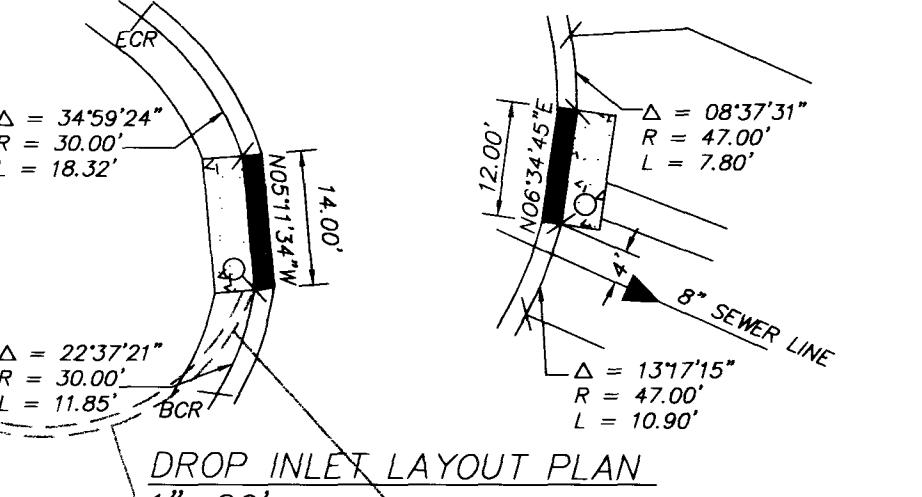
NOTE: SEE SHEET 15 FOR SEWER DISCHARGE MAP

**SEWER CONNECTION NOTE**

ONE OR MORE SEGMENTS OF THE DOWNSIDE SEWER SYSTEM THAT WILL SERVE THIS PROJECT HAS NOT BEEN COMPLETED AND/OR ACCEPTED FOR MAINTENANCE BY THE CITY OF LAS VEGAS. ANY WORK DONE ON THIS PROJECT PRIOR TO THE COMPLETION AND/OR ACCEPTANCE OF THE DOWNSIDE SEWER SYSTEM(S) SHALL BE DONE AT THE DEVELOPER'S OWN RISK. THE CITY OF LAS VEGAS RESERVES THE RIGHT TO PREVENT THE PHYSICAL CONNECTION OF THIS PROJECT INTO THE DOWNSIDE SEWER SYSTEM UNTIL ALL SEGMENTS HAVE BEEN COMPLETED AND ACCEPTED FOR MAINTENANCE, OR UNTIL SUCH TIME AS THEY ARE DEEMED AVAILABLE FOR SERVICE.

**SEWER CONTRIBUTION**

**AVERAGE FLOW:**  
170 DU = 170 E.R.U.'S  
170 E.R.U.'S \* 250 GPD/E.R.U. = 42,500 GPD = 0.0425 MGD  
**PEAK FLOW:**  
FROM TABLE C PG. T-3 CLARK COUNTY SANITATION DISTRICT, PEAKING FACTOR = 3.45  
PEAK FLOW = 3.45 PF \* 0.0425 MGD = 0.146 MGD



SCALE: HORIZ. 1"=40'  
DATE: 5/22/98  
**APPROVALS**  
CITY FIRE ENGINEER: [Signature]  
DATE: 5/22/98  
L.V.W.D. [Signature]  
DATE: 5/22/98

**KAUFMAN BROAD**  
4755 INDUSTRIAL ROAD  
LAS VEGAS, NV 89103  
(702) 261-1300

**HUNSAKER & ASSOCIATES**  
PLANNING & SURVEYING  
401 N. Buffalo Dr. Suite 100, Las Vegas, Nevada 89128  
(702) 242-4500

**UTILITY PLAN**  
CITY OF LAS VEGAS  
NEVADA  
BROOKFIELD PARCEL "U"  
PHASE I AND II - SUMMERLIN

**1506-30**

**UT2**  
6 OF 22  
307Y-454S-1+2

