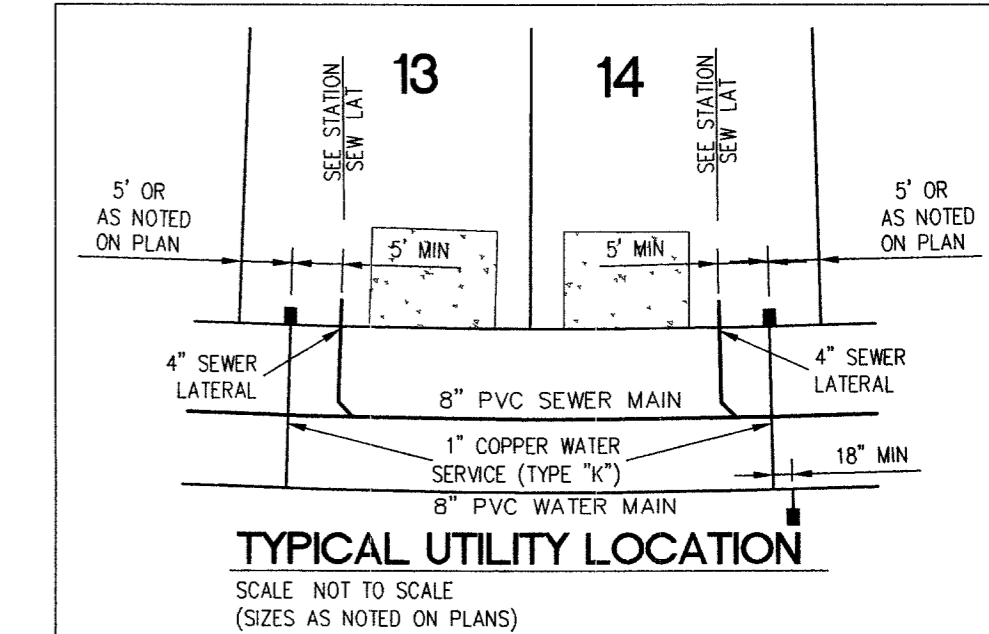
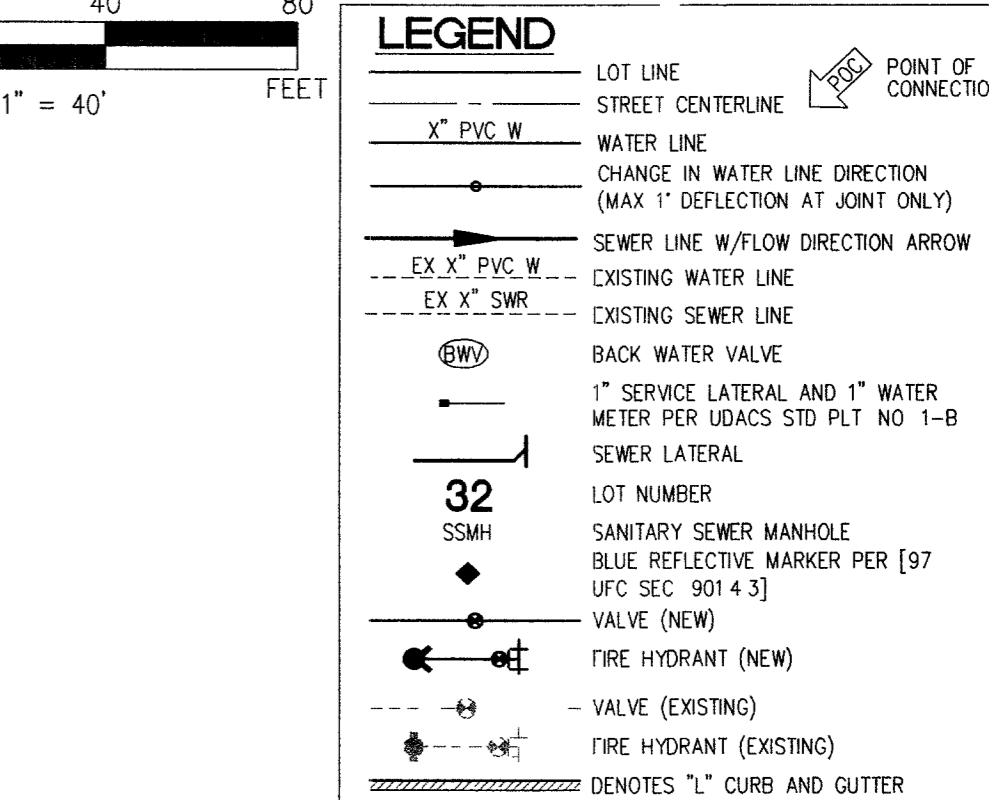
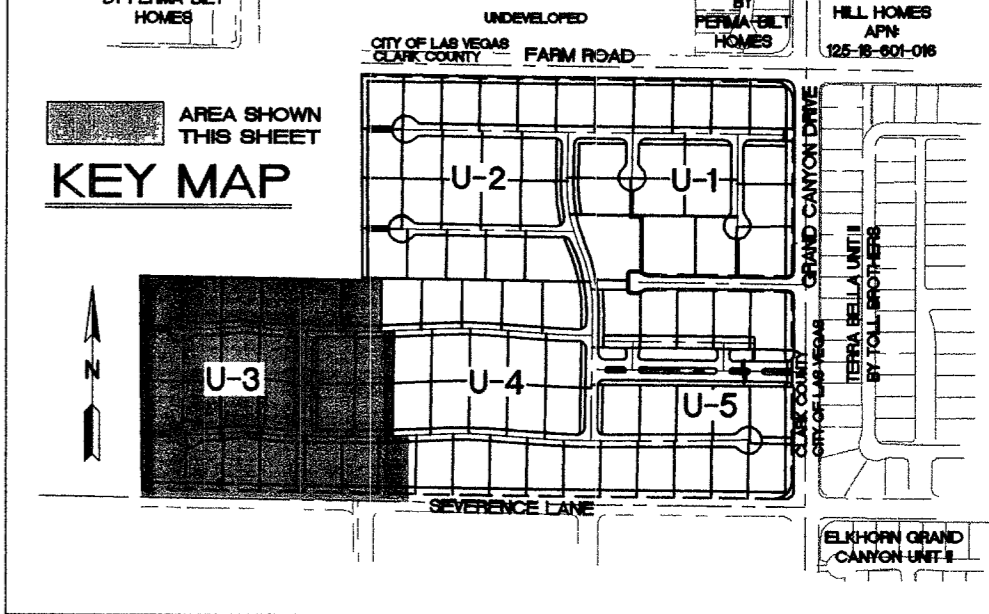
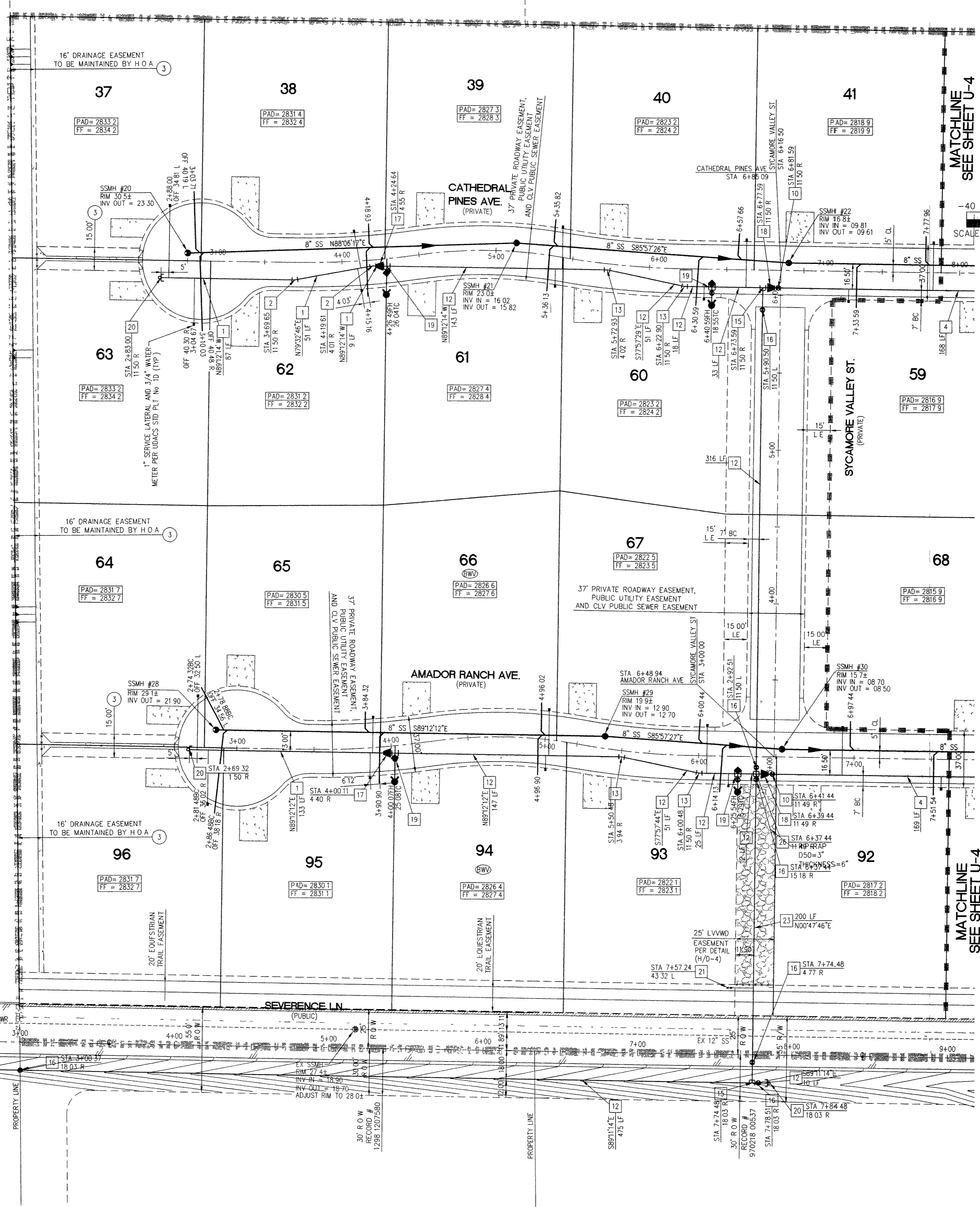


MH #	STREET NAME	STREET STATION	IRM	INV IN	INV OUT
1	RAMON VALLEY AVE	3+05.90	2807.9±	-	2800.72
2	RAMON VALLEY AVE	7+05.90	2796.0±	2788.99	2788.79
3	RAMON VALLEY AVE	10+02.75	2786.8±	2778.51	2778.31
4	ABBEY SPRINGS CT	2+90.50	2786.4±	-	2779.43
5	RAMON VALLEY AVE	13+21.03	2776.7±	2766.87	2766.67
6	ARROWHEAD SPRINGS CT	3+00.00	2775.8±	-	2768.59
7	GRAND CANYON DR	14+39.59	2770.7±	2765.71	2765.51
8	GRAND CANYON DR	12+04.59	2772.9±	2764.34	2764.14
9	GRAND CANYON DR	9+70.70	2770.9±	2762.97	2762.77
10	VIA PROVENZA AVE	4+49.45	2777.9±	-	2771.00
11	UNIVERSITY RIDGE CT	2+96.65	2806.5±	-	2799.44
12	UNIVERSITY RIDGE CT	5+63.05	2796.9±	2786.93	2786.73
13	FAIRBURN CREEK ST	9+48.80	2790.4±	2783.20	2783.00
14	FAIRBURN CREEK ST	8+14.55	2788.5±	2781.49	2781.29
15	FAIRBURN CREEK ST	6+80.62	2787.4±	2780.42	2780.22
16	FAIRBURN CREEK ST	6+21.50	2786.9±	2779.94	2779.74
17	FAIRBURN CREEK ST	5+38.00	2786.1±	2779.05	2778.85
18	DORVILLE AVE	6+96.52	2773.2±	2763.16	2762.96
19	GRAND CANYON DR	7+32.44	2768.8±	2760.20	2760.00
20	CATHEDRAL PINES AVE	3+00.00	2830.5±	-	2823.30
21	CATHEDRAL PINES AVE	5+12.97	2823.0±	2816.02	2815.82
22	CATHEDRAL PINES AVE	6+90.09	2816.8±	2809.81	2809.61
23	CATHEDRAL PINES AVE	8+75.29	2809.8±	2802.80	2802.60
24	CATHEDRAL PINES AVE	11+55.13	2799.2±	2792.17	2791.97
25	JONESBORO AVE	3+84.52	2782.7±	-	2775.45
26	JONESBORO AVE	6+60.52	2773.8±	2763.64	2763.44
27	JONESBORO AVE	7+41.71	2771.1±	-	2764.13
28	AMADOR RANCH AVE	2+86.32	2829.1±	-	2821.90
29	AMADOR RANCH AVE	5+38.24	2819.9±	2812.90	2812.70
30	AMADOR RANCH AVE	6+53.94	2815.7±	2808.70	2808.50
31	AMADOR RANCH AVE	8+39.15	2809.3±	2802.30	2802.10
32	AMADOR RANCH AVE	11+36.04	2799.0±	2791.98	2791.78
33	AMADOR RANCH AVE	13+98.93	2789.9±	2782.90	2782.70
34	AMADOR RANCH AVE	17+49.38	2777.4±	2770.40	2770.20
35	GRAND CANYON DR	5+01.41	2767.3±	2758.84	2758.64
36	GRAND CANYON DR	3+12.13	2766.9±	2753.92	2753.72
37	AMADOR RANCH AVE	19+66.46	2769.6±	2760.50	2760.30
38	CATHEDRAL PINES AVE	13+50.00	2791.8±	2783.38	2783.18

WATERLINE NOTES

- 6" PVC WATER LINE
- 6" 11 25' BEND
- 6" GATE VALVE
- 8" PVC WATER LINE
- 8" DIP WATER LINE
- 8" 11 25' BEND
- 8" 22 5' BEND
- 8" 90° BEND
- 8" TEE
- 8" GATE VALVE
- 8" x 6" REDUCER
- 10" PVC WATER LINE
- 10" 11 25' BEND
- 10" 90° BEND
- 10" TEE
- 10" GATE VALVE
- 10" x 6" REDUCER
- 10" x 8" REDUCER
- FIRE HYDRANT ASSEMBLY W/6" GATE VALVE PER UDACS STD PLT NO 7
- 2" BLOW OFF ASSEMBLY PER UDACS STD PLT NO 4A
- 1" IRRIGATION SERVICE W/1" METER AND 1" RPPA PER UDACS STD PLT NO 1-D AND 11-A
- REMOVE CAP AND BLOW OFF PER UDACS PLATE NO 4A, NOTE NO 1, AND CONNECT TO EXISTING MAIN (FIELD VERIFY INVERT)
- 10" DIP WATER LINE
- 10" x 10" x 8" TEE
- 10" x 10" x 6" TEE
- 10" CROSS
- 10" x 10" M TAPPING SLEEVE W/ 10" TAPPING VALVE PER UDACS 22
- 10" 45° DIP VERTICAL JOINT PER UDACS PLT No 15



FIRE DEPARTMENT NOTES

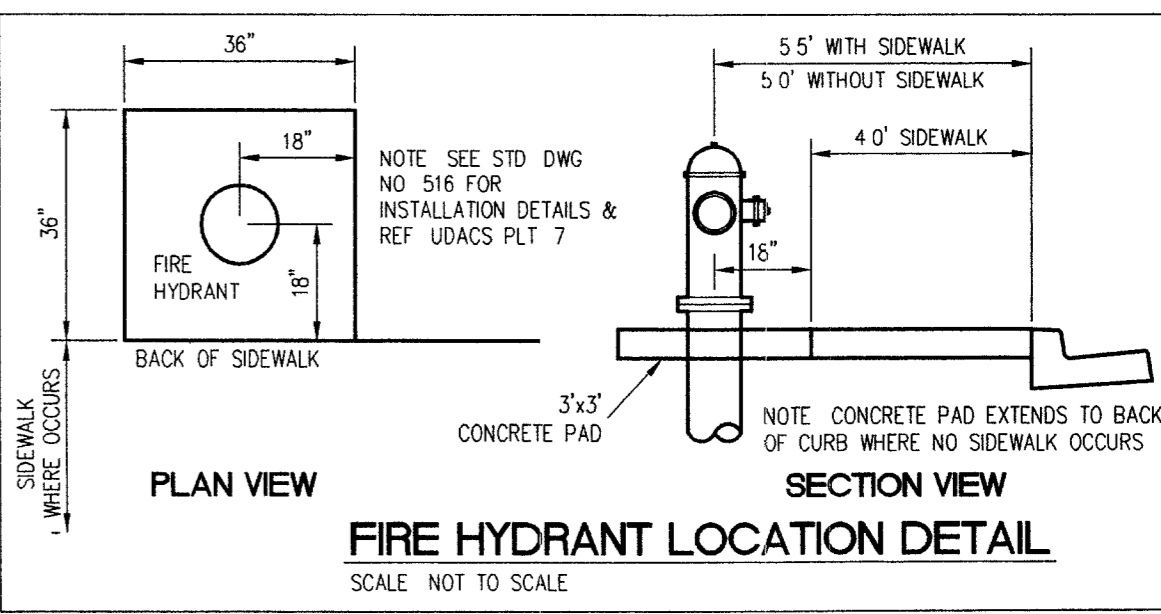
- ALL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH THE 1997 EDITION OF THE UNIFORM FIRE CODE, AND THE 1995 EDITION OF NATIONAL FIRE PROTECTION ASSOCIATION PAMPHLET #24
- ON ANY BUILDING CONSTRUCTION, ACCESSIBLE FIRE HYDRANTS SHALL BE INSTALLED BEFORE COMBUSTIBLE MATERIALS ARE DELIVERED TO THE SITE AND CONSTRUCTION COMMENCES. SAID FIRE HYDRANTS SHALL BE IN GOOD WORKING ORDER WITH THE REQUIRED WATER SUPPLY
- IF DURING CONSTRUCTION IT BECOMES NECESSARY TO CLOSE ANY CONTROL VALVE OR PLACE A HYDRANT OUT OF SERVICE, THE CLARK COUNTY FIRE DEPARTMENT MUST BE CONTACTED
- PAINTING OF CURBS AND/OR STRIPING OF ASPHALT AREAS AND PROTECTION OF HYDRANTS FROM PHYSICAL INJURY PER FIRE HYDRANT INSTALLATION SPECIFICATIONS OF THE FIRE PREVENTION BUREAU
- NO FIRE HYDRANT SHALL BE LOCATED WITHIN 25 FEET OF ANY STRUCTURE, OR 5 FEET OF A DRIVEWAY, POWER POLE, LIGHT STANDARD, OR ANY OTHER OBSTRUCTION. FOR WALL, FENCE AND PLANTER LOCATIONS, A PERIMETER AROUND THE HYDRANT MEASURING A MINIMUM OF 3 FEET FROM ITS EXTERIOR SHALL BE MAINTAINED CLEAR OF ALL OBSTRUCTION AT ALL TIMES
- AT ALL TIMES DURING CONSTRUCTION SUITABLE EMERGENCY VEHICLE ACCESS ROAD MUST BE MAINTAINED. ROADWAYS MUST BE SMOOTH, COMPACTED AND CAPABLE OF SUPPORTING THE IMPOSED LOADS OF ALL EMERGENCY VEHICLES
- PRIOR TO ACCEPTANCE OF ANY FIRE SERVICE MAIN, A SATISFACTORY HYDROSTATIC TEST WITH PIPING JOINTS UNCOVERED MUST BE CONDUCTED. APPROVED PLANS AND A CONTRACTOR'S MATERIALS AND TEST CERTIFICATE MUST BE PROVIDED AT TIME OF INSPECTION
- BLUE REFLECTIVE MARKERS MUST BE INSTALLED BEFORE FINAL HYDRANT ACCEPTANCE CAN BE ATTAINED [97 UFC SEC 901.4.3]

FIRE DEPARTMENT DATA

FIRE FLOW REQUIREMENT 2250 GALLONS PER MINUTE AT 20 PSI RESIDUAL PRESSURE
 BASED ON:
 SQUARE FOOTAGE LESS THAN 7700 SQUARE FEET
 OCCUPANCY SINGLE FAMILY RESIDENCE
 BUILDING DETAIL V- R3-01-N

WATER MAIN JOINT DEFLECTION (PVC 4"-24")
 PVC PIPE SHALL BE DEFLECTED AT THE JOINT ONLY. THE MAXIMUM ALLOWABLE DEFLECTION SHALL BE ONE (1) DEGREE PER JOINT WITH A MINIMUM RADIUS OF CURVATURE OF 1,150 FEET, PER UDACS 2.06.1 AND 2.06.02

FOR CHANGES IN DIRECTION EXCEEDING THE MAXIMUM ALLOWABLE JOINT DEFLECTION, FITTINGS SHALL BE USED



EASEMENT NOTES

- 37' DRAINAGE EASEMENT, LVWMO WATER EASEMENT, PUBLIC UTILITY EASEMENT (TO BE MAINTAINED BY H.O.A.) AND CLV PUBLIC SEWER EASEMENT
- 20' DRAINAGE EASEMENT (TO BE MAINTAINED BY H.O.A.) AND CLV PUBLIC SEWER EASEMENT
- DRAINAGE EASEMENT TO BE PRIVATELY MAINTAINED BY H.O.A. (SEE DIMENSION ON PLAN FOR EASEMENT WIDTH)

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 BACKFLOW PREVENTION UNTIL THE REDUCED PRESSURE PRINCIPLE ASSEMBLY HAS BEEN SUCCESSFULLY TESTED BY THE LVWMO

ANY BLOCK WALL OR OTHER FENCE MATERIAL SHALL BE DESIGNED AND CONSTRUCTED AROUND THE OUTSIDE OF THE ADJACENT(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

NOTES

- H.O.A. RESPONSIBLE FOR ALL WATER SERVICE LATERALS PAST METER
- INSTALL PIPELINE MARKER BALLS IN TRENCH ABOVE EACH HORIZONTAL ELBOW FITTING PER UDACS PLATE NO 27

NOTE THIS PROJECT PLAN APPROVAL CONTINGENT ON PROJECT# H108723, CAPRIANA PLAN APPROVAL

2975 WATER PRESSURE ZONE

APPROVED FOR CONSTRUCTION

Tom Hodson 7-11-05
 LAS VEGAS VALLEY WATER DISTRICT
 PROJECT# H10889

COUNTY OF CLARK
 FIRE DEPARTMENT
 APPROVED

Tom Hodson 7/10/05

REVISIONS TO THESE PLANS SHALL NOT BE CONSTRUCTED TO BE A PERMIT FOR, OR AN APPROVAL OF, ANY VIOLATION OF ANY OF THE PROVISIONS OF THE STATE OR COUNTY LAWS FIRE FLOW 2250 GPM AT 20 PSI RESIDUAL

Avoid cutting underground utility lines. It's costly.

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

CALL BEFORE YOU DIG OVERHEAD

Call before you UnderGround
 1-702-455-7511
 1-702-229-6611

CALL BEFORE YOU DIG UNDERGROUND

Call before you UnderGround
 1-702-455-7511
 1-702-229-6611

SLATER HANIFAN GROUP CONSULTING ENGINEERS & PLANNERS
 5740 S. ARVILLE STREET #216, LAS VEGAS, NV 89111
 PHONE (702) 264-5300 FAX (702) 264-5301

CLARK COUNTY, NEVADA

SECTION 18
 TOWNSHIP 9 SOUTH
 RANGE 60 EAST, MDM

DATE 06/20/05
 DRAFTER: DMB
 DESIGNER: DMB
 CHECKED: TJS
 PROJECT NO. PIN0402-001

PROFESSIONAL ENGINEER - STATE OF NEVADA
 TODD J. STEADHAM
 Exp. 06/30/2006
 CIVIL
 No. 15292

U-3
 SHEET 5 OF 44
 CLV DWG #301V930
 CC HFE# 05-7995