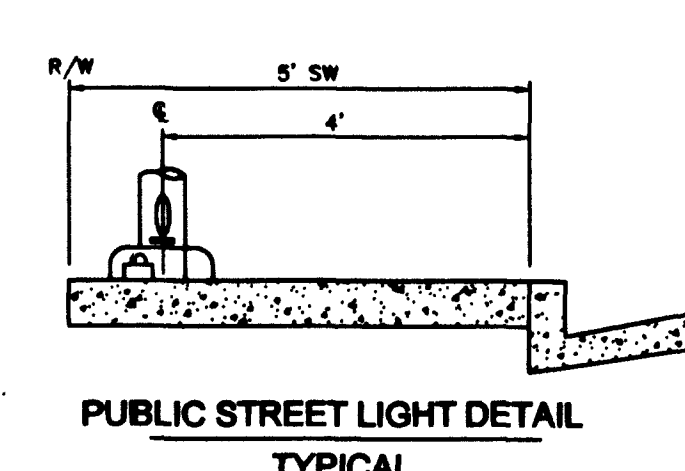
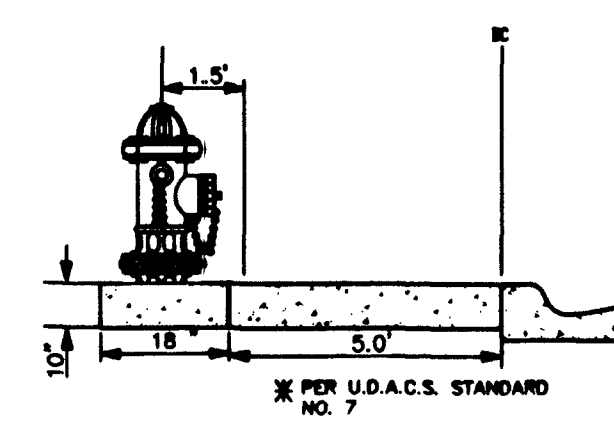
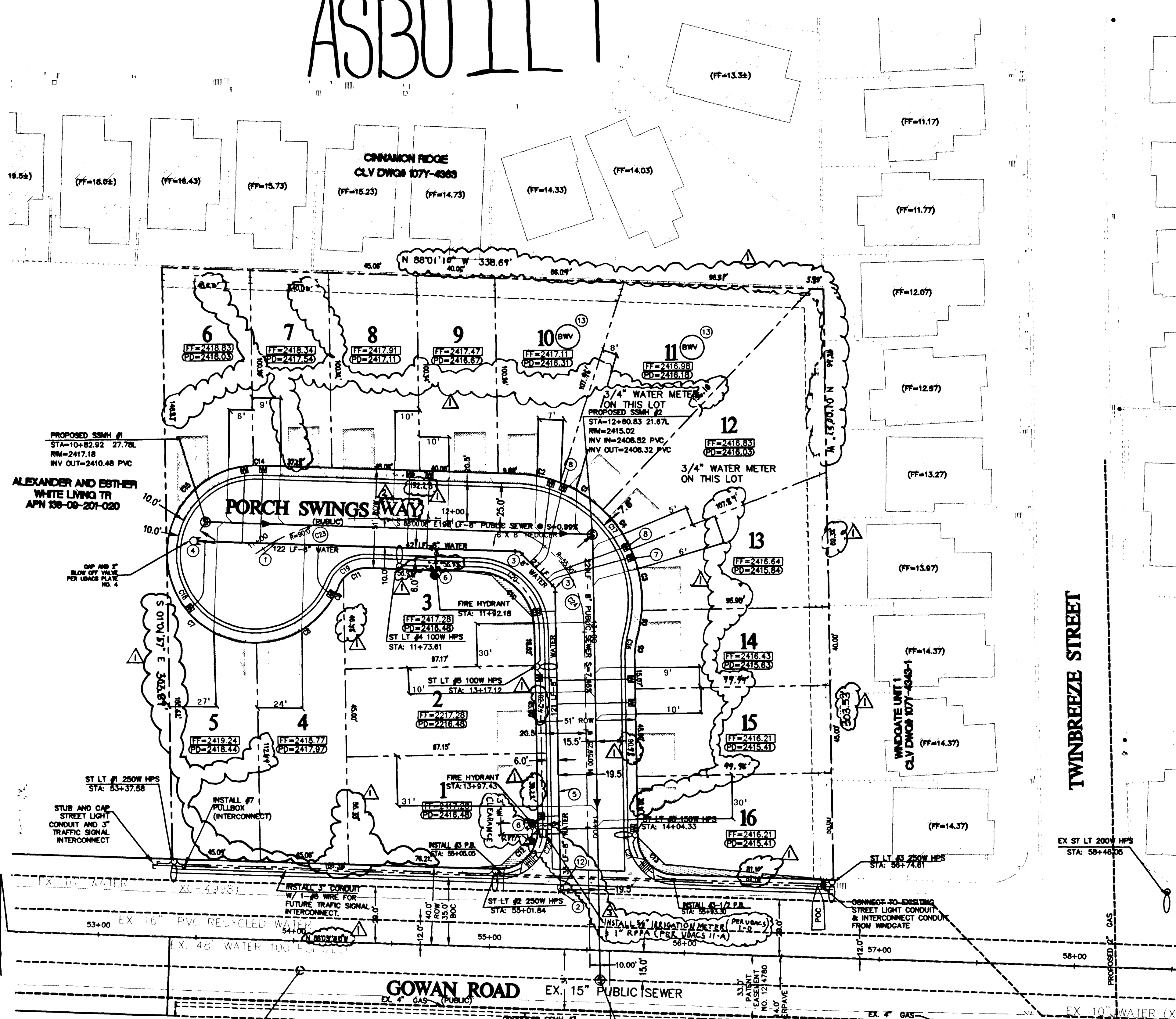


ASBUILT



FIRE DEPARTMENT APPROVAL

APPROVAL BY THE FIRE DEPARTMENT HAVING JURISDICTION IS REQUIRED PRIOR TO OBTAINING FINAL APPROVAL FROM THE LVWD.

LAS VEGAS FIRE DEPARTMENT

FIRE FLOW IS 3000 G.P.M. PER RESIDENTIAL PRESSURE.
BASED ON:
SQUARE FOOTAGE: 3,800 S.F. (MAX)
BUILDING HEIGHT: 30' (MAX)
NUMBER OF STORIES: 2 (MAX)
OCCUPANCY: SINGLE FAMILY (TYPE V-H)
FULL AUTOMATIC FIRE SPRINKLERS: NO

APPROVED:
Robert Bell 7-29-02
CITY OF LAS VEGAS FIRE MARSHAL DATE

SEWER CONTRIBUTIONS

AVERAGE FLOW: 4,000 GALLONS PER DAY
PEAK FLOW: 14,000 GALLONS PER DAY

NOTE

ALL DIMENSIONS TO UTILITIES ARE TO CENTERLINE OF PIPE UNLESS INDICATED OTHERWISE.
CONTRACTOR SHALL VERIFY HORIZONTAL AND VERTICAL ALIGNMENT OF EXISTING UTILITIES AND NOTIFY THE DESIGN ENGINEER IMMEDIATELY OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.

CONSTRUCTION NOTE

ALL EXISTING UTILITY STRUCTURES WITHIN CONSTRUCTION AREA SHALL BE ADJUSTED TO MATCH FINISH GRADE (I.A. INV. DEPTH, MAN. APPROVE BOX, P.H. TEL. BOX, ETC.)

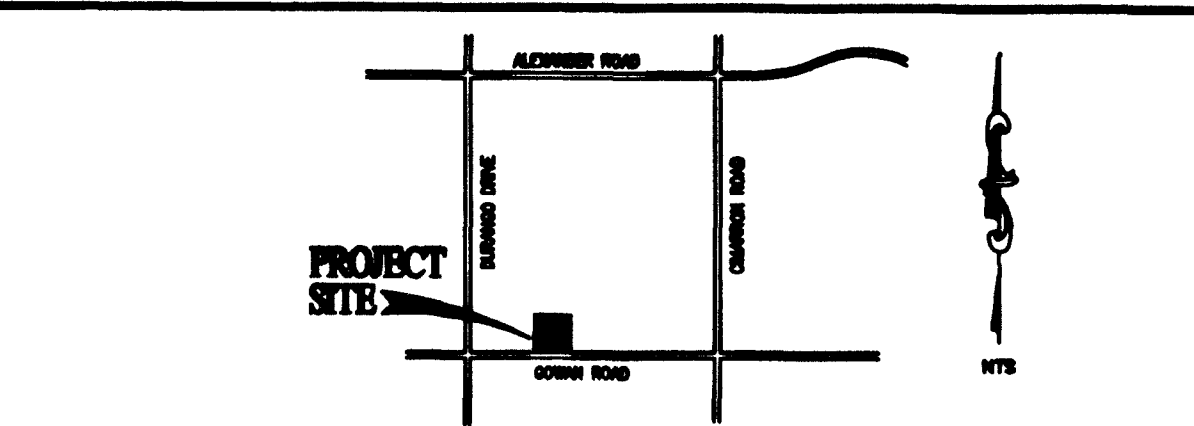
CONSTRUCTION NOTES & QUANTITIES

1	6" PVC WATER LINE - PUBLIC	122 LF
2	10"X8" M.J. TAPPING SLEEVE - PUBLIC	1 EA
3	8" WATER LINE 45' ELBOW	2 EA
4	2" BLOW OFF VALVE PER UDACS PLATE NO.4	1 EA
5	8" PVC WATER LINE - PUBLIC	225 LF
6	FIRE HYDRANT W/ 6" GATE VALVE PER UDACS PLATE NO.7	2 EA
7	5/8" WATER METER SERVICE PER UDACS PLATE 1A	14 EA
8	3/4" WATER METER SERVICE PER UDACS PLATE 1A	2 EA
9	8" PVC SEWER MAIN - PUBLIC	427 LF
10	48" SEWER MANHOLE (DCSWCS SD-1) - PUBLIC	2 EA
11	60" DEEP SEWER MANHOLE - PUBLIC	1 EA
12	4" SEWER LATERAL - PUBLIC	585 LF
13	8" TAPPING VALVE - PUBLIC	1 EA
14	BACKWATER VALVE PER DCSWCS SD-29	2 EA

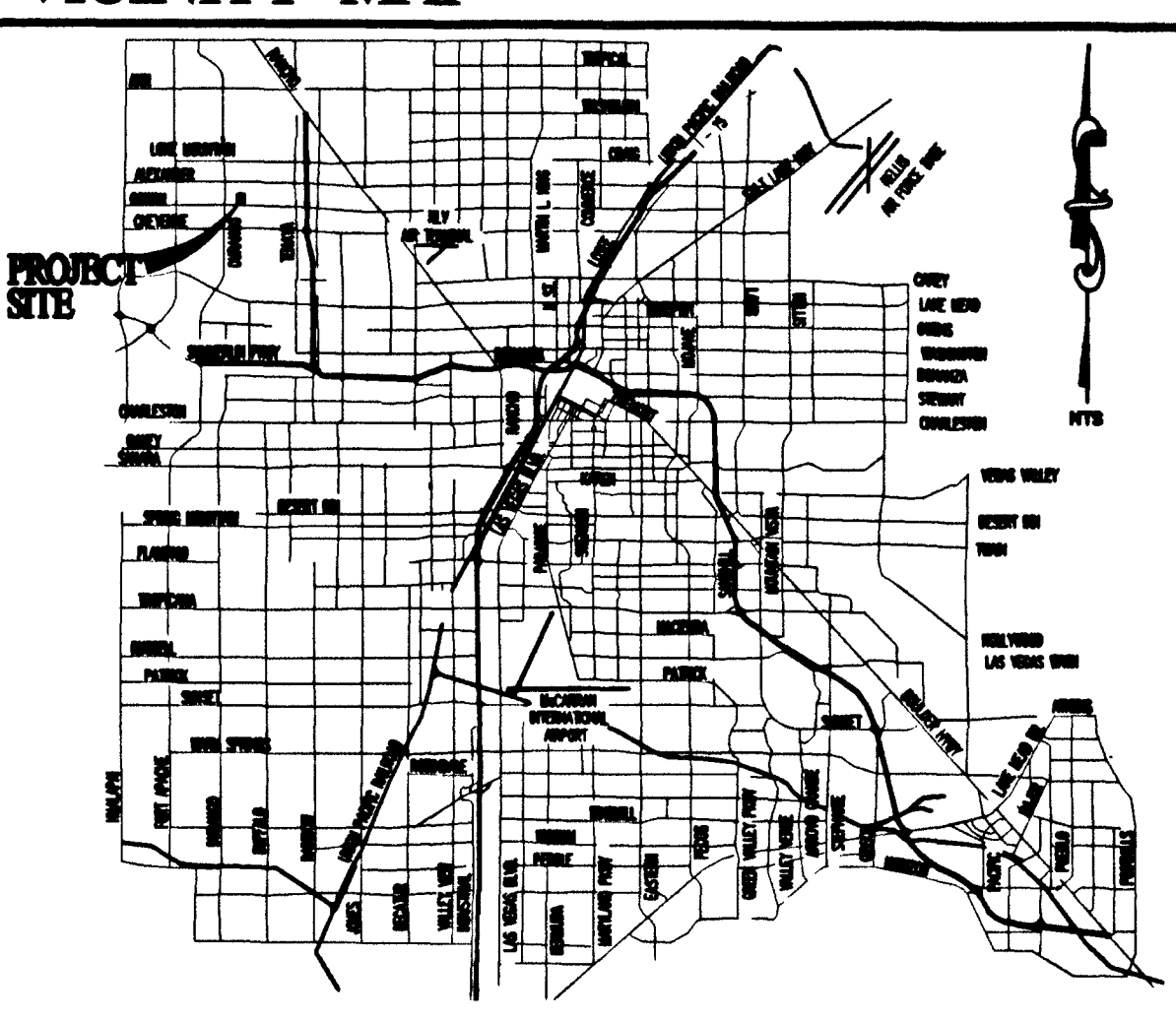
LEGEND

WATER LATERAL AND WATER METER	
WATERLINE TEE	
WATERLINE 45' & 22.5' EL'S	
GATE VALVE	
FIRE HYDRANT	
SEWER MAIN AND SEWER MANHOLE	
PROPOSED WATER LINE	
EXISTING UTILITY LINE	
4" SEWER LATERAL	
EXISTING GATE VALVE	
EXISTING SS MANHOLE	
BACKWATER VALVE	

KEY MAP



VICINITY MAP



ABBREVIATIONS

AC	ASPHALTIC CONCRETE	RCP	REINFORCED CONCRETE PIPE
BC	BACK OF CURB	RT	RIGHT-OF-WAY
BVC	BEGINNING OF VERTICAL CURVE	SS	SANITARY SEWER
BM	BENCH MARK	SW	SIDEWALK
BM	BOTTOM OF RETAINING WALL	STA	STATION
BWV	BACKWATER VALVE	STD	STANDARD
CLTY	CENTERLINE	STL	STREET LIGHT
CC	CLARK COUNTY	SVZ	SIGHT VISIBILITY ZONE
CO	CLEAR OUT	TC	TOP OF CURB
CY	CUBIC YARD	TEL	TELEPHONE
DE	DROP INLET	TV	TOP OF RETAINING WALL
DES	DESIGN GRADE	VC	VERTICAL CURVE
ED	EDGE OF PAVEMENT	VGP	VALLEY GUTTER
ELEC	ELECTRICAL	W	WATER
EXIST	EXISTING	WM	WATER METER
FG	FINISH GRADE		
FF	FINISH FLOOR ELEVATION		
FT	FEET		
FL	FLOW LINE		
GB	GRADE BREAK		
HP	HIGH POINT		
INV	INVERT		
LFF	LOWER FINISH FLOOR ELEVATION		
LF	LINEAL FEET		
LVWD	LAS VEGAS VALLEY WATER DISTRICT		
MAN	MANHOLE		
MAX	MAXIMUM		
MIN	MINIMUM		
NOT	NOT TO SCALE		
ON	OVERHEAD		
PI	POINT OF INTERSECTION		
PIC	POINT OF REVERSE CURVE		
PC	POINT OF CURVE		
PT	POINT OF TANGENCY		
PC	POINT OF COMPOUND CURVE		
PP	POWER POLE		
PL	PROPOSED		
PR	PULL BOX		
RS	RADIUS		
RCB	REINFORCED CONCRETE BOX		

Call Two Working Days Before You Dig



(1) 1" REDUCED PRESSURE PRINCIPLE ASSEMBLY

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 ASSEMBLY TO ALLOW THE DISTRICT DIRECT ACCESS FROM THE ADJACENT RIGHT-OF-WAY. EASEMENT SHALL BE CLEARLY MARKED ON STAKED PRIOR TO THE START OF CONSTRUCTION. ESN 028

FUTURE DEVELOPMENT HEARTHSTONE HOMEBUILDERS PINE COVE S AND 4

PROJECT NAME: Pine Cove II - P3 5
This project water plan complies with the Las Vegas Valley Water District's technical requirements. However, this water plan is NOT APPROVED FOR CONSTRUCTION at this time and this signature does not provide or imply a water commitment.
LVWD #52 7-29-02 DATE

APPROVED FOR CONSTRUCTION

Robert Bell 7/30/02
LAS VEGAS VALLEY WATER DISTRICT DATE

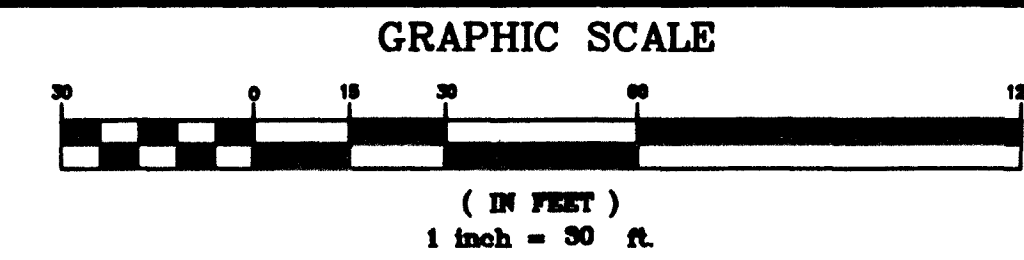
BENCHMARK

CITY OF LAS VEGAS BENCHMARK 9LV00-BE4
RIVET AND PLATE IN TOP OF CURB @ NW CORNER OF GOWAN & DURANGO
NAVD88 ELEVATION = 739.1022 METERS (2424.87 FT)
53834 63203

BASIS OF BEARING

N88°04'50"W - BEING THE SOUTH LINE OF THE SOUTHWEST QUARTER OF THE NORTHWEST QUARTER OF SECTION 9, TOWNSHIP 20 SOUTH, RANGE 60 EAST, M.D.M., COUNTY OF CLARK, STATE OF NEVADA, AS SHOWN ON THAT CERTAIN FINAL PLAT RECORDED IN BOOK 97 OF PLATS ON PAGE 54, OFFICIAL RECORDS OF SAID COUNTY.

SCALE



LEGAL DESCRIPTION

THE SOUTHEAST QUARTER (SE 1/4) OF THE SOUTHWEST QUARTER (SW 1/4) OF THE SOUTHWEST QUARTER (NW 1/4) OF SECTION 9, TOWNSHIP 20 SOUTH, RANGE 60 EAST, M.D.M., APN 138-09-201-021 & 138-09-201-022

REVISIONS	DATE	BY	APPROVED
1	07/29/02	RMM	
2	07/30/02	RMM	
3	07/30/02	RMM	
4	07/30/02	RMM	
5	07/30/02	RMM	
6	07/30/02	RMM	
7	07/30/02	RMM	
8	07/30/02	RMM	
9	07/30/02	RMM	
10	07/30/02	RMM	
11	07/30/02	RMM	
12	07/30/02	RMM	
13	07/30/02	RMM	
14	07/30/02	RMM	
15	07/30/02	RMM	
16	07/30/02	RMM	
17	07/30/02	RMM	
18	07/30/02	RMM	
19	07/30/02	RMM	
20	07/30/02	RMM	
21	07/30/02	RMM	
22	07/30/02	RMM	
23	07/30/02	RMM	
24	07/30/02	RMM	
25	07/30/02	RMM	
26	07/30/02	RMM	
27	07/30/02	RMM	
28	07/30/02	RMM	
29	07/30/02	RMM	
30	07/30/02	RMM	
31	07/30/02	RMM	
32	07/30/02	RMM	
33	07/30/02	RMM	
34	07/30/02	RMM	
35	07/30/02	RMM	
36	07/30/02	RMM	
37	07/30/02	RMM	
38	07/30/02	RMM	
39	07/30/02	RMM	
40	07/30/02	RMM	
41	07/30/02	RMM	
42	07/30/02	RMM	
43	07/30/02	RMM	
44	07/30/02	RMM	
45	07/30/02	RMM	
46	07/30/02	RMM	
47	07/30/02	RMM	
48	07/30/02	RMM	
49	07/30/02	RMM	
50	07/30/02	RMM	
51	07/30/02	RMM	
52	07/30/02	RMM	
53	07/30/02	RMM	
54	07/30/02	RMM	
55	07/30/02	RMM	
56	07/30/02	RMM	
57	07/30/02	RMM	
58	07/30/02	RMM	
59	07/30/02	RMM	
60	07/30/02	RMM	
61	07/30/02	RMM	
62	07/30/02	RMM	
63	07/30/02	RMM	
64	07/30/02	RMM	
65	07/30/02	RMM	
66	07/30/02	RMM	
67	07/30/02	RMM	
68	07/30/02	RMM	
69	07/30/02	RMM	
70	07/30/02	RMM	
71	07/30/02	RMM	
72	07/30/02	RMM	
73	07/30/02	RMM	
74	07/30/02	RMM	
75	07/30/02	RMM	
76	07/30/02	RMM	
77	07/30/02	RMM	
78	07/30/02	RMM	
79	07/30/02	RMM	
80	07/30/02	RMM	
81	07/30/02	RMM	
82	07/30/02	RMM	
83	07/30/02	RMM	
84	07/30/02	RMM	
85	07/30/02	RMM	
86	07/30/02	RMM	
87	07/30/02	RMM	
88	07/30/02	RMM	
89	07/30/02	RMM	
90	07/30/02	RMM	
91	07/30/02	RMM	
92	07/30/02	RMM	
93	07/30/02	RMM	
94	07/30/02	RMM	
95	07/30/02	RMM	
96	07/30/02	RMM	
97	07/30/02	RMM	
98	07/30/02	RMM	
99	07/30/02	RMM	
100	07/30/02	RMM	

HEARTHSTONE HOMEBUILDERS
6320 MALEDO RD
LAS VEGAS, NEVADA 89120
702-632-3248 FAX: 702-651-6218

TANNEY ENGINEERING
4445 S. JONES BLVD. SUITE #1
LAS VEGAS, NV 89103
(702) 302-8844 FAX: (702) 302-5553

MASTER UTILITY PLAN

ASBUILT
PINE COVE II SUBDIVISION

ENGINEER'S SEAL
EDWARD A. TANNEY
7-10-02

DATE: 07/30/02
SCALE: 1"=30'
JOB NO: HRT-01-03
DESIGNED BY: RMM
DRAWN BY: RMM
SHEET NAME: U1
SHEET 307-Y-4714
5 OF 8