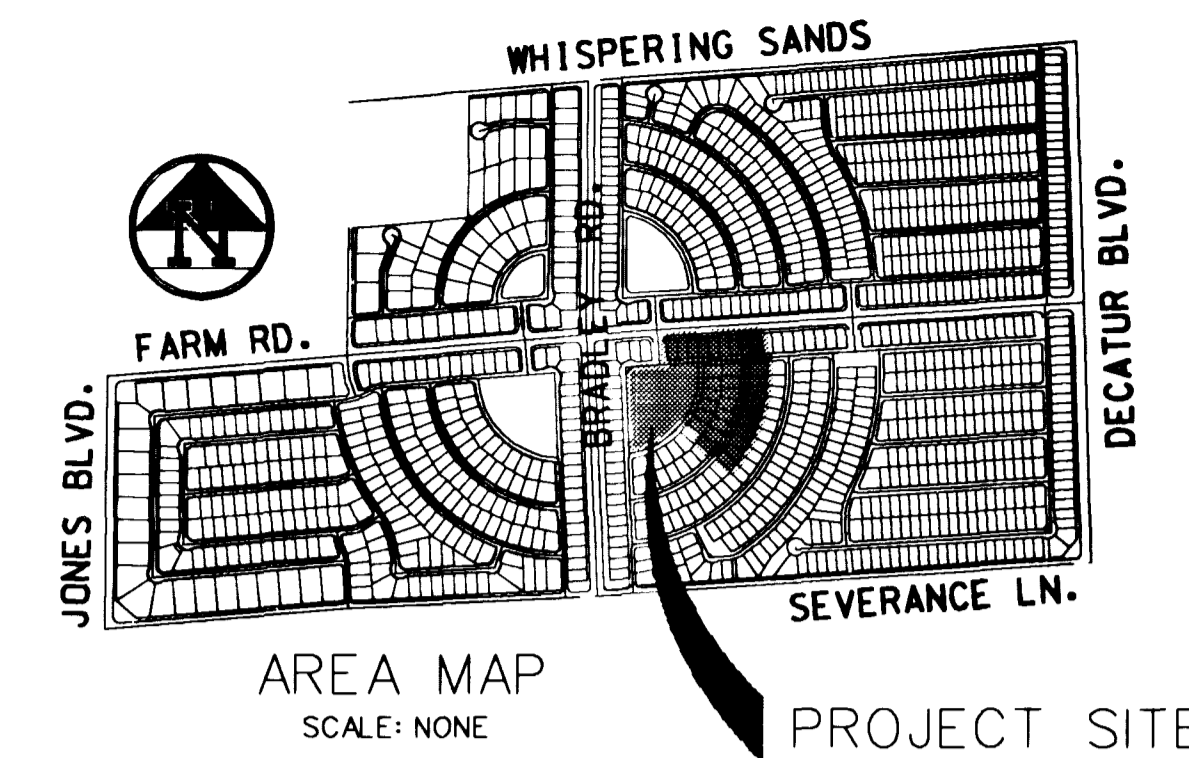
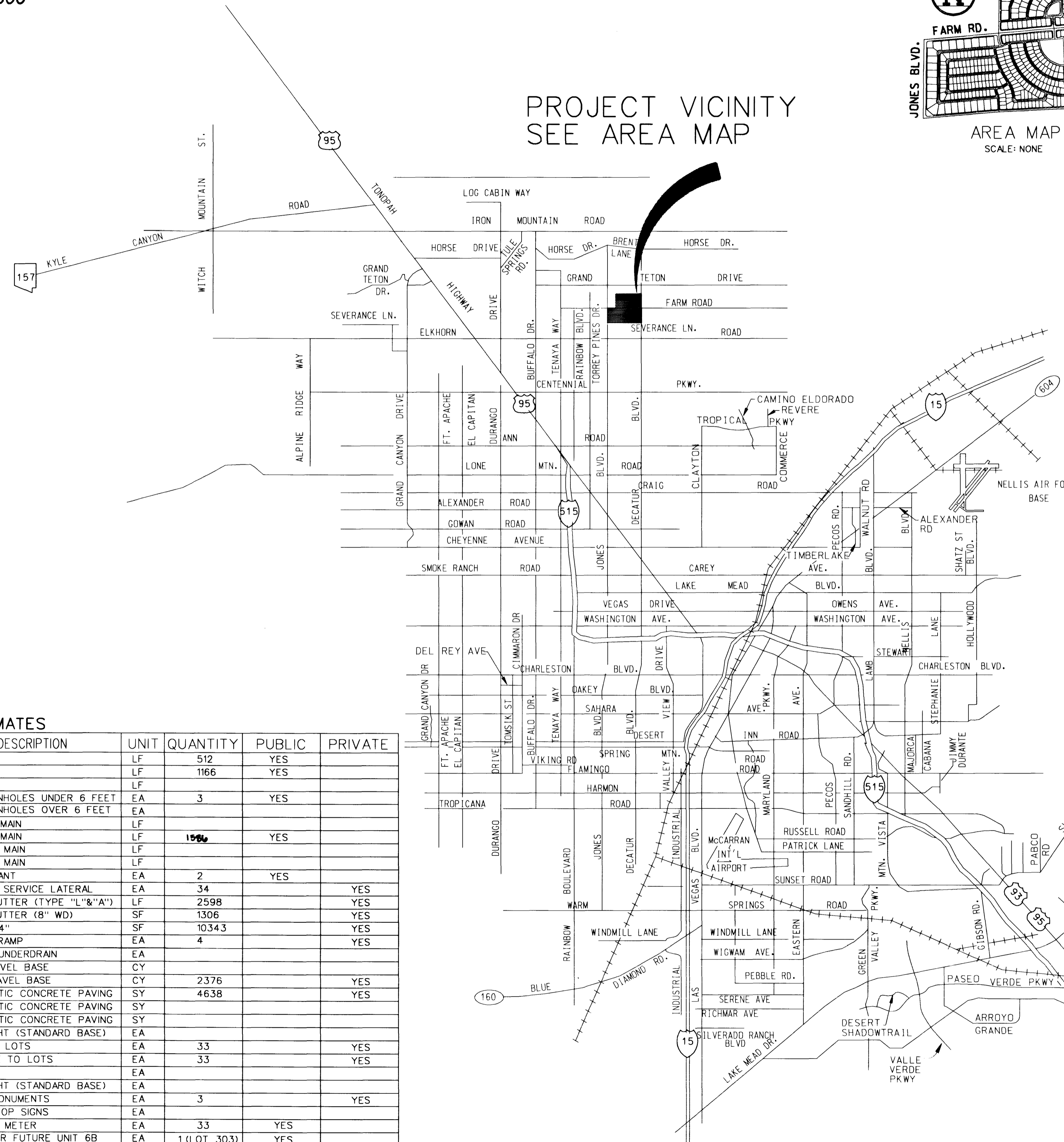


Avoid cutting underground utility lines. It's costly.  
**Call before you Dig**  
 1-800-227-2600

Avoid overhead power line contact. It's costly.  
**Call before you Overhead**  
 1-702-593-6111



PROJECT VICINITY  
 SEE AREA MAP



ABBREVIATIONS

A	ABANDONED	GI	GALVANIZED IRON
AB	ABANDONED	GM	GAS METER
ABR	ABBREVIATIONS	GR	GAS PRESSURE REGULATOR
ABD	ABANDONED	GUT	GUTTER
ABUT.	ABUTMENT	H	HEADWALL
AC	ASPHALTIC CONCRETE	H.O.A.	HOME OWNERS ASSOCIATION
ACP	ASBESTOS CEMENT PIPE	HORIZ.	HORIZONTAL
ADD.	ADDITION	HP	HIGH POINT
ADJ.	ADJUSTING	ID	INSIDE DIAMETER
AGG.	AGGREGATE	IN	INCH
AIP	ABANDONED IN PLACE	INT	INTERSECTION
ALT.	ALTERNATE	INV	INVERT
APP.	APPROVED	ISL	ISLAND
APPROX.	APPROXIMATE	J	JUNCTION BOX
ASB	ASBESTOS	JUNCT	JUNCTION
ASPH.	ASPHALT	K	KNUCKLE
ASSN.	ASSOCIATION	JT	JOINT
ASST.	ASSISTANT	LAT	LATITUDE
AUX.	AUXILIARY	LN	LINEAR
AVENUE	AVENUE	LOC	LENGTH OF CURB
B TO B	BACK TO BACK	LT	LEFT
BC	BACK TO CURB	LVWD	LAS VEGAS VALLEY WATER DISTRICT
BCPA	BITUMINOUS COATED	MAX	MAXIMUM
BCPCMP	BITUMINOUS COATED & PAVED CORRUGATED	MH	MANHOLE
BCPPA	BITUMINOUS COATED & PAVED PIPE ARCH CULVERT	MIN	MINIMUM
BCR	BACK OF CURB RADIUS	MN	MONUMENT
BD	BUILDING	N	NORTH
BLVD	BOULEVARD	N/E	NORTH EAST
BM	BENCH MARK	N/O	NORTH OF
BT	BOTTOM	NTS	NOT TO SCALE
BVC	BEGINNING OF VERTICAL CURVE	OC	ON CENTER
C TO C	CENTER TO CENTER	OD	OUTSIDE DIAMETER
CMG	CURB AND GUTTER	OG	OPEN-GRADED PAVEMENT
CONV	CONVERSION	ORIG	ORIGINAL GROUND
CBC	CITY OF BOULDER CITY	O.T.O.	OUTSIDE TO OUTSIDE
CE	CURB ELEVATION	P	POWER
CF	CURB FACE	PB	PULL BOX
CI	CAST IRON	PCC	POINT OF COMPOUND CURVE
CIP	CAST IRON PIPE	PCC.CONE	PORTLAND CEMENT CONCRETE
CLV	CITY OF LAS VEGAS	P1	POINT OF INTERSECTION
COM	CITY OF MESQUITE	PL	PROPERTY LINE
COMP	CORRUGATED METAL PIPE	PL-G	PLASTIC
CMPA	CORRUGATED METAL PIPE ARCH	PP	POWER POLE
CMLV	CITY OF NORTH LAS VEGAS	PRC	POINT OF REVERSE CURVE
COH	CITY OF HENDERSON	PRO	PROPOSED
COL	COLUMN	PT	POINT
CONC	CONCRETE	P1	POINT OF TANGENCY
COORD	COORDINATE	PVC	POLYVINYL CHLORIDE
COORR.I	CORRUGATED IRON	PVMT	PAVEMENT
CROSS	CROSS ROAD	R	RADIUS
XSECT	CROSS SECTION	RC	REINFORCED CONCRETE
CUBIC	CUBIC	RCB	REINFORCED CONCRETE BOX
CUBIC YARD	CUBIC YARD	RCP	REINFORCED CONCRETE PIPE
CULV.	CULVERT	RD	ROAD
CURT.CF	CURB FACE	RE	REINFORCED
DEPT	DEPTH	RELOC	RELOCATE
DEG	DEGREE	RP	RADIUS POINT
DEPT	DEPTH	RR	RAILROAD
DIP	DIP	RT/V	RIGHT OF WAY
DIA	DIAMETER	S	SOUTH
DRIVEWAY	DRIVEWAY	SD	STORM DRAIN
EA	EACH	SE	SOUTH EAST
E	EAST	SHP	STEEL HIGH PRESSURE PIPE
EBS	ELECTRIC	SHT	SHEET
EC	ELECTRIC	STL	STREETLIGHT
ECCR	ELECTRIC	SV	SQUARE
ELEV	ELEVATION	SV FT.SF	SQUARE FOOT
EMK	ELECTRIC METER	SV IN	SQUARE INCH
END	END	SV MILE	SQUARE MILE
END TO E	END TO END	SV YD.SY	SQUARE YARD
ETS	EDGE PROTECTION	ST	STATION
EVC	END OF VERTICAL CURVE	ST.A	STANDARD
EXC	EXCAVATION	ST.D	STANDARD OR STRUCTURE
EXT	EXTENSION	STRUC	STRUCTURE
EXIST	EXISTING	SURV	SURVEY
FAT	FIRE ALARM	SW	SOUTH WEST
FG	FINISH GRADE	T	TO BE ADJUSTED
FIG.	FIGURE	TBA	TO BE REMOVED
FL	FLOOR	TBR	TO BE REMOVED
FM	FEET PER MINUTE	TEMP	TEMPORARY
FPS	FEET PER SECOND	TC	TEMPORARY CURB
FT	FEET OR FOOT	TOP	TOP OF PIPE
F TO F	FACE TO FACE	TMH	TOP OF MANHOLE
GAL	GALLON	TS	TRAFFIC SIGNAL
GEN	GENERAL	TSI	TRAFFIC SIGNAL INTERCONNECT
GB	GALVANIZED GRADE BREAK	TRANS	TRANSITION
		TP	TEMPORARY
		UDACS	UNDERGROUND DESIGN AND CONSTRUCTION STANDARDS FOR WATER DISTRIBUTION SYSTEMS
		UG	UNDERGROUND
		VAR	VARIABLE
		V/C	VERTICAL CURVE
		VCP	VITRIFIED CLAY PIPE
		VERT	VERTICAL
		VG	VALLEY GUTTER
		VM	WATER METER
		V/O	WEST OF
		YD	YARD

QUANTITY ESTIMATES

ITEM #	DESCRIPTION	UNIT	QUANTITY	PUBLIC	PRIVATE
1	4" SEWER	LF	512	YES	
2	8" SEWER	LF	1166	YES	
3	12" SEWER	LF			
4	SEWER MANHOLES UNDER 6 FEET	EA	3	YES	
5	SEWER MANHOLES OVER 6 FEET	EA			
6	6" WATER MAIN	LF			
7	8" WATER MAIN	LF	1596	YES	
8	10" WATER MAIN	LF			
9	12" WATER MAIN	LF			
10	FIRE HYDRANT	EA	2	YES	
11	1" COPPER SERVICE LATERAL	EA	34		YES
11	CURB & GUTTER (TYPE "L" & "A")	LF	2598		YES
12	VALLEY GUTTER (8" WD)	SF	1306		YES
13	SIDEWALK 4"	SF	10343		YES
14	HANDICAP RAMP	EA	4		YES
15	SIDEWALK UNDERDRAIN	EA			
16	TYPE I GRAVEL BASE	CY			
17	TYPE II GRAVEL BASE	CY	2376		YES
18	2" ASPHALTIC CONCRETE PAVING	SY	4638		YES
19	3" ASPHALTIC CONCRETE PAVING	SY			
20	4" ASPHALTIC CONCRETE PAVING	SY			
21	STREETLIGHT (STANDARD BASE)	EA			
22	POWER TO LOTS	EA	33		YES
23	TELEPHONE TO LOTS	EA	33		YES
24	PULLBOX	EA			
25	STREETLIGHT (STANDARD BASE)	EA			
26	SURVEY MONUMENTS	EA	3		YES
27	STREET/STOP SIGNS	EA			
28	3/4" WATER METER	EA	33	YES	
29	3/4" WM FOR FUTURE UNIT 6B	EA	1 (LOT 303)	YES	
30	8" TEE	EA	3	YES	
31	8" X 6" TEE	EA	2	YES	
32	8" GATE VALVE	EA	7	YES	
33	8" 11.25" BEND	EA	2	YES	
34	INDIVIDUAL PRV	EA	34		YES

SHEET INDEX

SHEET #	SHEET	DESCRIPTION
1	C1	COVER SHEET
2	C2	VICINITY MAP, ABBREVIATIONS, MANHOLE SCHEDULE AND QUANTITIES SHEET
3	C3	GENERAL NOTES SHEET
4	C4	MASTER UTILITY PLAN
5	G1	GRADING PLAN
6	SS1	SANITARY SEWER PLAN AND PROFILE WHISPERING LAKE AVE. STA 13+09.72 TO 18+16.88
7	SS2	SANITARY SEWER PLAN AND PROFILE HARBOR POND DRIVE STA 13+41.06 TO 16+70.27
8	SS3	SANITARY SEWER PLAN AND PROFILE TRICKLING WASH DRIVE STA 14+97.80 TO 20+46.83
9	D1	DETAIL SHEET

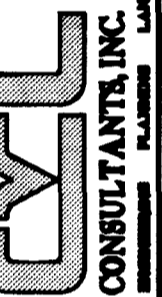
MANHOLE SCHEDULE

M.H.#	I.D.	TYPE	STATION	OFFSET	N. INV. EL.	S. INV. EL.	W. INV. EL.	E. INV. EL.	COMMENTS
54	48"	STANDARD	17+05.48	5.00' LT		2321.54	2321.74	2321.74	
55	48"	STANDARD	19+36.51	5.00' LT		2323.13	2323.13	2323.13	
76	48"	STANDARD	19+77.93	5.00' RT	2321.24	2321.04			

APPROVED FOR CONSTRUCTION

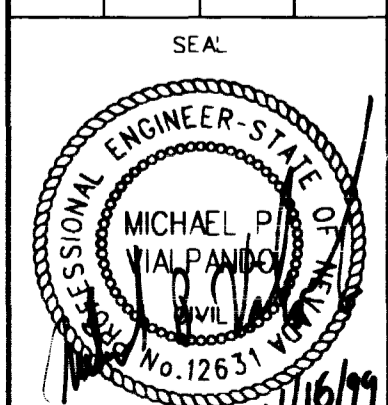
*[Signature]* 10/12/99  
 LAS VEGAS VALLEY WATER DISTRICT DATE

VICINITY MAP, QUANTITIES, ABBREVIATIONS AND SCHEDULE SHEET  
**THE GATES, L.L.C.**  
 7201 WEST LAKE MEAD BOULEVARD  
 SUITE 210  
 LAS VEGAS, NEVADA 89128



LYNBROOK  
 UNIT 6A

DRAWN BY: GAVED/RS	DESIGNED BY: GB/GA/EDZ/FT	CHECKED BY: M/V	PROJECT NO.:
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SHEET  
**C2**  
 2 OF 9 SHEETS  
 CLV DRAWING NO.  
 107Y-4576-6A

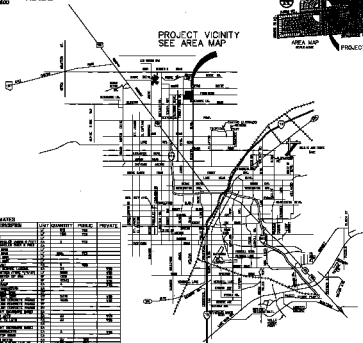
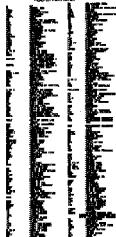
Call before  
you dig  
1-800-297-2603

Call before  
you Overhead  
7-180-260-00

PROJECT VICINITY  
SEE AREA MAP



ABBREVIATIONS



QUANTITY ESTIMATES

ITEM #	DESCRIPTION	UNIT	QUANTITY	PUBLIC	PRIVATE
1	CONCRETE	CU YD	100	100	0
2	STEEL	TON	50	50	0
3	ASPHALT	CU YD	200	200	0
4	GRAVEL	CU YD	300	300	0
5	SAND	CU YD	400	400	0
6	BRICK	1000'S	100	100	0
7	CEMENT	TON	200	200	0
8	WATER	CU YD	100	100	0
9	SEWER	CU YD	100	100	0
10	GAS	CU YD	100	100	0
11	ELECTRIC	CU YD	100	100	0
12	TELEPHONE	CU YD	100	100	0
13	CABLE	CU YD	100	100	0
14	PAVEMENT	CU YD	100	100	0
15	CONCRETE	CU YD	100	100	0
16	STEEL	TON	50	50	0
17	ASPHALT	CU YD	200	200	0
18	GRAVEL	CU YD	300	300	0
19	SAND	CU YD	400	400	0
20	BRICK	1000'S	100	100	0
21	CEMENT	TON	200	200	0
22	WATER	CU YD	100	100	0
23	SEWER	CU YD	100	100	0
24	GAS	CU YD	100	100	0
25	ELECTRIC	CU YD	100	100	0
26	TELEPHONE	CU YD	100	100	0
27	CABLE	CU YD	100	100	0
28	PAVEMENT	CU YD	100	100	0
29	CONCRETE	CU YD	100	100	0
30	STEEL	TON	50	50	0
31	ASPHALT	CU YD	200	200	0
32	GRAVEL	CU YD	300	300	0
33	SAND	CU YD	400	400	0
34	BRICK	1000'S	100	100	0
35	CEMENT	TON	200	200	0
36	WATER	CU YD	100	100	0
37	SEWER	CU YD	100	100	0
38	GAS	CU YD	100	100	0
39	ELECTRIC	CU YD	100	100	0
40	TELEPHONE	CU YD	100	100	0
41	CABLE	CU YD	100	100	0
42	PAVEMENT	CU YD	100	100	0
43	CONCRETE	CU YD	100	100	0
44	STEEL	TON	50	50	0
45	ASPHALT	CU YD	200	200	0
46	GRAVEL	CU YD	300	300	0
47	SAND	CU YD	400	400	0
48	BRICK	1000'S	100	100	0
49	CEMENT	TON	200	200	0
50	WATER	CU YD	100	100	0
51	SEWER	CU YD	100	100	0
52	GAS	CU YD	100	100	0
53	ELECTRIC	CU YD	100	100	0
54	TELEPHONE	CU YD	100	100	0
55	CABLE	CU YD	100	100	0
56	PAVEMENT	CU YD	100	100	0
57	CONCRETE	CU YD	100	100	0
58	STEEL	TON	50	50	0
59	ASPHALT	CU YD	200	200	0
60	GRAVEL	CU YD	300	300	0
61	SAND	CU YD	400	400	0
62	BRICK	1000'S	100	100	0
63	CEMENT	TON	200	200	0
64	WATER	CU YD	100	100	0
65	SEWER	CU YD	100	100	0
66	GAS	CU YD	100	100	0
67	ELECTRIC	CU YD	100	100	0
68	TELEPHONE	CU YD	100	100	0
69	CABLE	CU YD	100	100	0
70	PAVEMENT	CU YD	100	100	0
71	CONCRETE	CU YD	100	100	0
72	STEEL	TON	50	50	0
73	ASPHALT	CU YD	200	200	0
74	GRAVEL	CU YD	300	300	0
75	SAND	CU YD	400	400	0
76	BRICK	1000'S	100	100	0
77	CEMENT	TON	200	200	0
78	WATER	CU YD	100	100	0
79	SEWER	CU YD	100	100	0
80	GAS	CU YD	100	100	0
81	ELECTRIC	CU YD	100	100	0
82	TELEPHONE	CU YD	100	100	0
83	CABLE	CU YD	100	100	0
84	PAVEMENT	CU YD	100	100	0
85	CONCRETE	CU YD	100	100	0
86	STEEL	TON	50	50	0
87	ASPHALT	CU YD	200	200	0
88	GRAVEL	CU YD	300	300	0
89	SAND	CU YD	400	400	0
90	BRICK	1000'S	100	100	0
91	CEMENT	TON	200	200	0
92	WATER	CU YD	100	100	0
93	SEWER	CU YD	100	100	0
94	GAS	CU YD	100	100	0
95	ELECTRIC	CU YD	100	100	0
96	TELEPHONE	CU YD	100	100	0
97	CABLE	CU YD	100	100	0
98	PAVEMENT	CU YD	100	100	0
99	CONCRETE	CU YD	100	100	0
100	STEEL	TON	50	50	0

SHEET INDEX

SHEET #	DESCRIPTION
1	GENERAL NOTES
2	CONCRETE
3	STEEL
4	ASPHALT
5	GRAVEL
6	SAND
7	BRICK
8	CEMENT
9	WATER
10	SEWER
11	GAS
12	ELECTRIC
13	TELEPHONE
14	CABLE
15	PAVEMENT
16	CONCRETE
17	STEEL
18	ASPHALT
19	GRAVEL
20	SAND
21	BRICK
22	CEMENT
23	WATER
24	SEWER
25	GAS
26	ELECTRIC
27	TELEPHONE
28	CABLE
29	PAVEMENT
30	CONCRETE
31	STEEL
32	ASPHALT
33	GRAVEL
34	SAND
35	BRICK
36	CEMENT
37	WATER
38	SEWER
39	GAS
40	ELECTRIC
41	TELEPHONE
42	CABLE
43	PAVEMENT
44	CONCRETE
45	STEEL
46	ASPHALT
47	GRAVEL
48	SAND
49	BRICK
50	CEMENT
51	WATER
52	SEWER
53	GAS
54	ELECTRIC
55	TELEPHONE
56	CABLE
57	PAVEMENT
58	CONCRETE
59	STEEL
60	ASPHALT
61	GRAVEL
62	SAND
63	BRICK
64	CEMENT
65	WATER
66	SEWER
67	GAS
68	ELECTRIC
69	TELEPHONE
70	CABLE
71	PAVEMENT
72	CONCRETE
73	STEEL
74	ASPHALT
75	GRAVEL
76	SAND
77	BRICK
78	CEMENT
79	WATER
80	SEWER
81	GAS
82	ELECTRIC
83	TELEPHONE
84	CABLE
85	PAVEMENT
86	CONCRETE
87	STEEL
88	ASPHALT
89	GRAVEL
90	SAND
91	BRICK
92	CEMENT
93	WATER
94	SEWER
95	GAS
96	ELECTRIC
97	TELEPHONE
98	CABLE
99	PAVEMENT
100	CONCRETE

MANHOLE SCHEDULE

NO.	TYPE	STATION	DEPTH	CONCRETE	STEEL	BRICK	CEMENT	WATER	SEWER	GAS	ELECTRIC	TELEPHONE	CABLE
1	12"	1+00	4'	CONCRETE	STEEL	BRICK	CEMENT	WATER	SEWER	GAS	ELECTRIC	TELEPHONE	CABLE
2	18"	1+25	4'	CONCRETE	STEEL	BRICK	CEMENT	WATER	SEWER	GAS	ELECTRIC	TELEPHONE	CABLE
3	24"	1+50	4'	CONCRETE	STEEL	BRICK	CEMENT	WATER	SEWER	GAS	ELECTRIC	TELEPHONE	CABLE
4	30"	1+75	4'	CONCRETE	STEEL	BRICK	CEMENT	WATER	SEWER	GAS	ELECTRIC	TELEPHONE	CABLE
5	36"	2+00	4'	CONCRETE	STEEL	BRICK	CEMENT	WATER	SEWER	GAS	ELECTRIC	TELEPHONE	CABLE
6	42"	2+25	4'	CONCRETE	STEEL	BRICK	CEMENT	WATER	SEWER	GAS	ELECTRIC	TELEPHONE	CABLE
7	48"	2+50	4'	CONCRETE	STEEL	BRICK	CEMENT	WATER	SEWER	GAS	ELECTRIC	TELEPHONE	CABLE
8	54"	2+75	4'	CONCRETE	STEEL	BRICK	CEMENT	WATER	SEWER	GAS	ELECTRIC	TELEPHONE	CABLE
9	60"	3+00	4'	CONCRETE	STEEL	BRICK	CEMENT	WATER	SEWER	GAS	ELECTRIC	TELEPHONE	CABLE
10	66"	3+25	4'	CONCRETE	STEEL	BRICK	CEMENT	WATER	SEWER	GAS	ELECTRIC	TELEPHONE	CABLE
11	72"	3+50	4'	CONCRETE	STEEL	BRICK	CEMENT	WATER	SEWER	GAS	ELECTRIC	TELEPHONE	CABLE
12	78"	3+75	4'	CONCRETE	STEEL	BRICK	CEMENT	WATER	SEWER	GAS	ELECTRIC	TELEPHONE	CABLE
13	84"	4+00	4'	CONCRETE	STEEL	BRICK	CEMENT	WATER	SEWER	GAS	ELECTRIC	TELEPHONE	CABLE
14	90"	4+25	4'	CONCRETE	STEEL	BRICK	CEMENT	WATER	SEWER	GAS	ELECTRIC	TELEPHONE	CABLE
15	96"	4+50	4'	CONCRETE	STEEL	BRICK	CEMENT	WATER	SEWER	GAS	ELECTRIC	TELEPHONE	CABLE
16	102"	4+75	4'	CONCRETE	STEEL	BRICK	CEMENT	WATER	SEWER	GAS	ELECTRIC	TELEPHONE	CABLE
17	108"	5+00	4'	CONCRETE	STEEL	BRICK	CEMENT	WATER	SEWER	GAS	ELECTRIC	TELEPHONE	CABLE
18	114"	5+25	4'	CONCRETE	STEEL	BRICK	CEMENT	WATER	SEWER	GAS	ELECTRIC	TELEPHONE	CABLE
19	120"	5+50	4'	CONCRETE	STEEL	BRICK	CEMENT	WATER	SEWER	GAS	ELECTRIC	TELEPHONE	CABLE
20	126"	5+75	4'	CONCRETE	STEEL	BRICK	CEMENT	WATER	SEWER	GAS	ELECTRIC	TELEPHONE	CABLE
21	132"	6+00	4'	CONCRETE	STEEL	BRICK	CEMENT	WATER	SEWER	GAS	ELECTRIC	TELEPHONE	CABLE
22	138"	6+25	4'	CONCRETE	STEEL	BRICK	CEMENT	WATER	SEWER	GAS	ELECTRIC	TELEPHONE	CABLE
23	144"	6+50	4'	CONCRETE	STEEL	BRICK	CEMENT	WATER	SEWER	GAS	ELECTRIC	TELEPHONE	CABLE
24	150"	6+75	4'	CONCRETE	STEEL	BRICK	CEMENT	WATER	SEWER	GAS	ELECTRIC	TELEPHONE	CABLE
25	156"	7+00	4'	CONCRETE	STEEL	BRICK	CEMENT	WATER	SEWER	GAS	ELECTRIC	TELEPHONE	CABLE
26	162"	7+25	4'	CONCRETE	STEEL	BRICK	CEMENT	WATER	SEWER	GAS	ELECTRIC	TELEPHONE	CABLE
27	168"	7+50	4'	CONCRETE	STEEL	BRICK	CEMENT	WATER	SEWER	GAS	ELECTRIC	TELEPHONE	CABLE
28	174"	7+75	4'	CONCRETE	STEEL	BRICK	CEMENT	WATER	SEWER	GAS	ELECTRIC	TELEPHONE	CABLE
29	180"	8+00	4'	CONCRETE	STEEL	BRICK	CEMENT	WATER	SEWER	GAS	ELECTRIC	TELEPHONE	CABLE
30	186"	8+25	4'	CONCRETE	STEEL	BRICK	CEMENT	WATER	SEWER	GAS	ELECTRIC	TELEPHONE	CABLE
31	192"	8+50	4'	CONCRETE	STEEL	BRICK	CEMENT	WATER	SEWER	GAS	ELECTRIC	TELEPHONE	CABLE
32	198"	8+75	4'	CONCRETE	STEEL	BRICK	CEMENT	WATER	SEWER	GAS	ELECTRIC	TELEPHONE	CABLE
33	204"	9+00	4'	CONCRETE	STEEL	BRICK	CEMENT	WATER	SEWER	GAS	ELECTRIC	TELEPHONE	CABLE
34	210"	9+25	4'	CONCRETE	STEEL	BRICK	CEMENT	WATER	SEWER	GAS	ELECTRIC	TELEPHONE	CABLE
35	216"	9+50	4'	CONCRETE	STEEL	BRICK	CEMENT	WATER	SEWER	GAS	ELECTRIC	TELEPHONE	CABLE
36	222"	9+75	4'	CONCRETE	STEEL	BRICK	CEMENT	WATER	SEWER	GAS	ELECTRIC	TELEPHONE	CABLE
37	228"	10+00	4'	CONCRETE	STEEL	BRICK	CEMENT	WATER	SEWER	GAS	ELECTRIC	TELEPHONE	CABLE
38	234"	10+25	4'	CONCRETE									