Avoid cutting underground utility lines. It's costly.

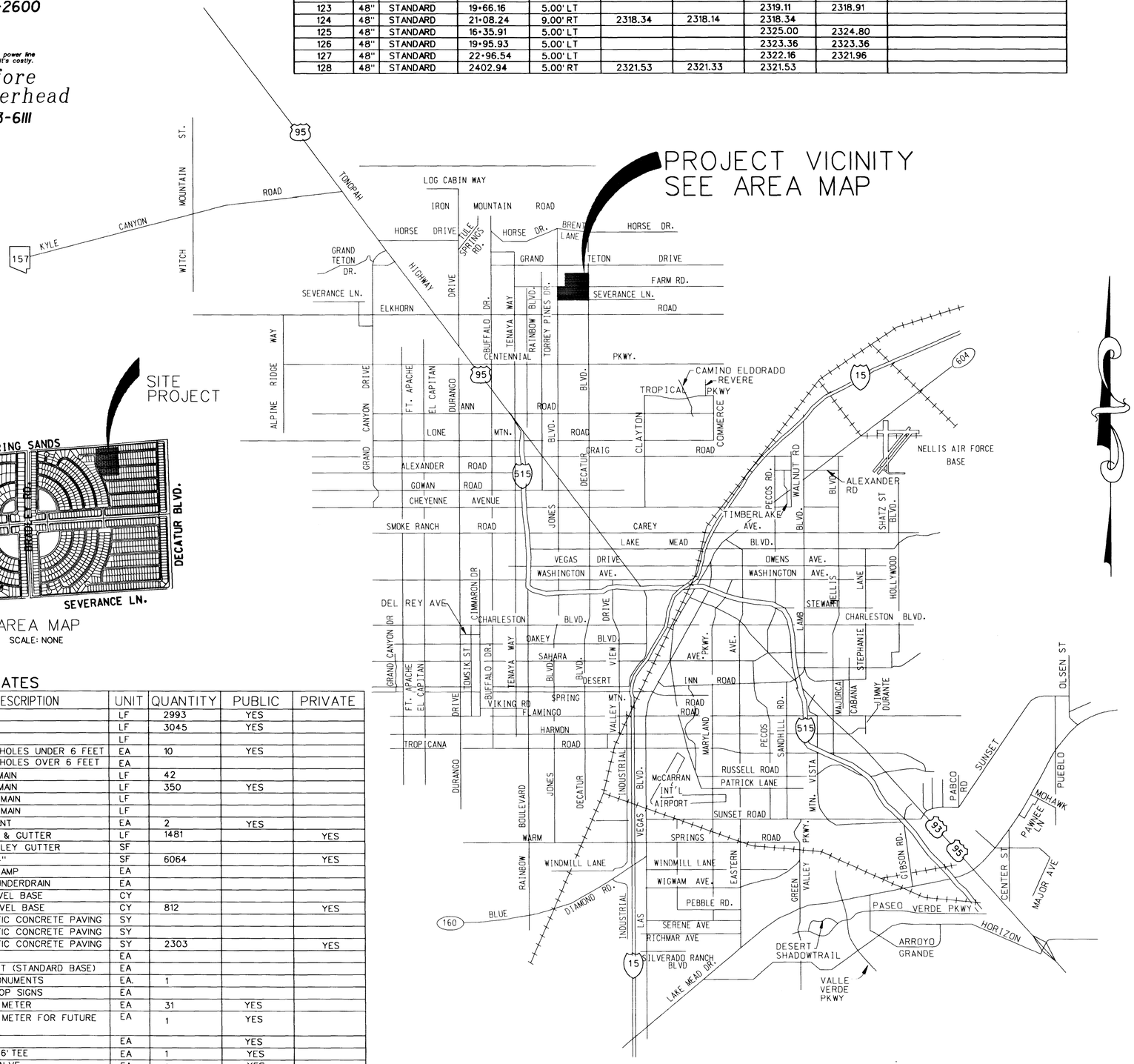
Call before you Dig
1-800-227-2600

Avoid overhead power line contact. It's costly.

Call before you Overhead
1-702-593-6111

MANHOLE SCHEDULE

M.H.#	I.D.	TYPE	STATION	OFFSET	N. INV. EL.	S. INV. EL.	W. INV. EL.	E. INV. EL.	COMMENTS
114	48"	STANDARD	14+27.70	9.00' RT	2315.98				
119	48"	STANDARD	16+73.53	9.00' RT	2317.16	2316.96			
121	48"	STANDARD	13+98.72	5.00' LT			2321.58	2321.38	
122	48"	STANDARD	16+59.81	5.00' LT			2320.34	2320.34	
123	48"	STANDARD	19+66.16	5.00' LT			2319.11	2318.91	
124	48"	STANDARD	21+08.24	9.00' RT	2318.34	2318.14	2318.34		
125	48"	STANDARD	16+35.91	5.00' LT			2325.00	2324.80	
126	48"	STANDARD	19+95.93	5.00' LT			2323.36	2323.36	
127	48"	STANDARD	22+96.54	5.00' LT			2322.16	2321.96	
128	48"	STANDARD	2402.94	5.00' RT	2321.53	2321.33	2321.53		



AREA MAP
SCALE: NONE

QUANTITY ESTIMATES

ITEM #	DESCRIPTION	UNIT	QUANTITY	PUBLIC	PRIVATE
1	4" SEWER	LF	2993	YES	
2	8" SEWER	LF	3045	YES	
3	12" SEWER	LF			
4	SEWER MANHOLES UNDER 6 FEET	EA	10	YES	
5	SEWER MANHOLES OVER 6 FEET	EA			
6	6" WATER MAIN	LF	42		
7	8" WATER MAIN	LF	350	YES	
8	10" WATER MAIN	LF			
9	12" WATER MAIN	LF			
10	FIRE HYDRANT	EA	2	YES	
11	ROLL CURB & GUTTER	LF	1481		YES
12	8' WIDE VALLEY GUTTER	SF			
13	SIDEWALK 4"	SF	6064		YES
14	HANDICAP RAMP	EA			
15	SIDEWALK UNDERDRAIN	EA			
16	TYPE I GRAVEL BASE	CY			
17	TYPE II GRAVEL BASE	CY	812		YES
18	5" ASPHALTIC CONCRETE PAVING	SY			
19	3" ASPHALTIC CONCRETE PAVING	SY			
20	2" ASPHALTIC CONCRETE PAVING	SY	2303		YES
21	PULLBOX	EA			
22	STREETLIGHT (STANDARD BASE)	EA			
23	SURVEY MONUMENTS	EA.	1		
24	STREET/STOP SIGNS	EA			
25	5/8" WATER METER	EA	31	YES	
26	5/8" WATER METER FOR FUTURE LOT 875	EA	1	YES	
27	8" TEE	EA		YES	
28	8" X 8" X 6" TEE	EA	1	YES	
29	8" GATE VALVE	EA	1	YES	
30	8" X 6" REDUCER	EA		YES	
31	8" 45° BEND	EA		YES	
32	8" 22.5° BEND	EA		YES	
33	8" 11.25° BEND	EA		YES	
34	1" COPPER WATER SERVICE	EA	32	YES	
35	INDIVIDUAL PRV	EA	32		YES

ABBREVIATIONS

@	-AT	GI	-GALVANIZED IRON
A	-ANODE, GAS	GM	-GAS METER
ABAN	-ABANDON	GR	-GAS PRESSURE REGULATOR
ABBR	-ABBREVIATIONS	GUT	-GUTTER
ABD	-ABANDONED	HDWL	-HEADWALL
ABUT.	-ABUTMENT	H.O.A.	-HOME OWNERS ASSOCIATION
AC	-ACRE	HORIZ.	-HORIZONTAL
AC	-ASPHALTIC CONCRETE	HP	-HIGH POINT
ACP	-ASBESTOS CEMENT PIPE	ID	-INSIDE DIAMETER
ADD.	-ADDITION	IN	-INCH
ADJ	-ADJUSTING	INT	-INTERSECTION
AGG	-AGGREGATE	INV	-INVERT
AIP	-ABANDONED IN PLACE	ISL	-ISLAND
ALT	-ALTERNATE	JB	-JUNCTION BOX
APPD	-APPROVED	JNCT	-JUNCTION
APPROX	-APPROXIMATE	"K"	-KNUCKLE
ASB	-ASBESTOS	JT	-JOINT
ASPH	-ASPHALT	LAT	-LATITUDE
ASSN	-ASSOCIATION	LIN	-LINEAR
ASST	-ASSISTANT	LIN FT	-LINEAR FOOT
AUX	-AUXILIARY	LOC	-LENGTH OF CURB
AVE	-AVENUE	LT	-LEFT
B TO B	-BACK TO BACK	LVWD	-LAS VEGAS VALLEY WATER DISTRICT
BC	-BACK TO CURB	MAX	-MAXIMUM
BCPA	-BITUMINOUS COATED PIPE ARCH CULVERT	MH	-MANHOLE
		MIN	-MINIMUM
BCPCMP	-BITUMINOUS COATED & PAVED CORRUGATED METAL PIPE CULVERT	MON	-MONOLITHIC
		N	-NORTH
		NE	-NORTHEAST
BCPPA	-BITUMINOUS COATED & PAVED PIPE ARCH CULVERT	N/O	-NORTH OF
		NTS	-NOT TO SCALE
		NW	-NORTHWEST
BCR	-BACK OF CURB RADIUS	OC	-ON CENTER
BDRY LINE	-BOUNDARY LINE	OD	-OUTSIDE DIAMETER
BLDG	-BUILDING	OG	-OPEN-GRADED PAVEMENT, ORIGINAL GROUND
BLVD	-BOULEVARD		
BM	-BENCH MARK	O TO O	-OUTSIDE TO OUTSIDE
BOT	-BOTTOM	P	-POWER
BS	-BACKSIGHT	PB	-PULL BOX
BVC	-BEGINNING OF VERTICAL CURVE	PCC	-POINT OF COMPOUND CURVE
C TO C	-CENTER TO CENTER	PCC.CONE	-PORTLAND CEMENT CONCRETE
C&G	-CURB AND GUTTER	PI	-POINT OF INTERSECTION
CATV	-CABLE TELEVISION	PL	-PROPERTY LINE
CBC	-CITY OF BOULDER CITY	PL-G	-PLASTIC GAS
CC	-CLARK COUNTY	PP	-POWER POLE
CF	-CURB FACE	PRC	-POINT OF REVERSE CURVE
CI	-CAST IRON		
CIP	-CAST IRON PIPE	PRO	-PROPOSED
CL	-CENTER LINE	PT	-POINT
CLV	-CITY OF LAS VEGAS	PT	-POINT OF TANGENCY
COM	-CITY OF MESQUITE	PVC	-POLYVINYL CHLORIDE
CM	-CORRUGATED METAL	PVMT	-PAVEMENT
CMP	-CORRUGATE METAL PIPE	R	-RADIUS
CMPA	-CORRUGATED METAL PIPE ARCH	RC	-REINFORCED CONCRETE
CNLV	-CITY OF NORTH LAS VEGAS	RCB	-REINFORCED CONCRETE BOX
COH	-CITY OF HENDERSON		
COL	-COLUMN	RCP	-REINFORCED CONCRETE PIPE
CP	-CONCRETE PIPE		
COORD	-COORDINATE	RD	-ROAD
CORR.I	-CORRUGATED IRON	REINF	-REINFORCED
XRD	-CROSS ROAD	RELOC	-RELOCATE
XSECT	-CROSS SECTION	RP	-RADIUS POINT
CU	-CUBIC	RR	-RAILROAD
CUYD.CY	-CUBIC YARD	RT	-RIGHT
CUFT.CF	-CUBIC FOOT	R/W	-RIGHT-OF-WAY
CULV	-CULVERT	S	-SOUTH
DEG	-DEGREE	SD	-STORM DRAIN
DEPT	-DEPARTMENT	SE	-SOUTHEAST
DI	-DROP INLET	SHP	-STEEL HIGH PRESSURE PIPE
DIP	-DUCTILE IRON PIPE		
DIA	-DIAMETER	SHT	-SHEET
DRWY	-DRIVEWAY	STL	-STREETLIGHT
EA	-EACH	S/D	-SOUTH OF
E	-EAST	SQ	-SQUARE
E	-ELECTRIC	SQ FT.SF	-SQUARE FOOT
EBS	-CATHODE PROTECTION BOND STATION	SQ IN	-SQUARE INCH
		SQ MILE	-SQUARE MILE
EC	-END OF CURVE	SQ YD.SY	-SQUARE YARD
ECR	-END OF CURB RETURN	SS	-SANITARY SEWER
EL	-ELEVATION	STA	-STATION
ELEV	-ELEVATION	STD	-STANDARD
EM	-ELECTRIC METER	STRUCT	-STRUCTURAL OR STRUCTURE
EMBK	-EMBANKMENT		
E/O	-EAST OF	SURV	-SURVEY
EO	-EDGE OF OIL	SDW	-SIDEWALK
EP	-EDGE OF PAVEMENT	SW	-SOUTHWEST
ESMT	-EASEMENT	T	-TELEPHONE
EST	-ESTIMATE	TBA	-TO BE ADJUSTED
E TO E	-END TO END	TBR	-TO BE REMOVED
ETS	-CATHODE PROTECTION TEST STATION	TC	-TOP OF CURB
		TEMP	-TEMPORARY
EVC	-END OF VERTICAL CURVE	TP	-TELEPHONE POLE
		TOP	-TOP OF PIPE
EXC	-EXCAVATION	TMH	-TOP OF MANHOLE
EXP	-EXPANSION	TS	-TRAFFIC SIGNAL
EXIST	-EXISTING	TSI	-TRAFFIC SIGNAL INTERCONNECT
EXT	-EXTENSION		
FA	-FIRE ALARM	TRANS	-TRANSITION
FG	-FINISH GRADE	TYP	-TYPICAL
FH	-FIRE HYDRANT	UDACS	-UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR WATER DISTRIBUTION SYSTEMS
FIG.	-FIGURE		
FF	-FINISH FLOOR		
FL	-FLOW LINE	UG	-UNDERGROUND
FL	-FLOOR	VAR	-VARIABLE
FPM	-FEET PER MINUTE	VC	-VERTICAL CURVE
FPS	-FEET PER SECOND	VCP	-VITRIFIED CLAY PIPE
FT	-FEET OR FOOT	VERT	-VERTICAL
F TO F	-FACE TO FACE	VG	-VALLEY GUTTER
GAL	-GALLON	W	-WATER
GALV	-GALVANIZED	WM	-WATER METER
GB	-GRADE BREAK	W/O	-WEST OF
		Yd	-Yard

SHEET INDEX

SHEET #	SHEET	DESCRIPTION
1	C1	COVER SHEET
2	C2	VICINITY MAP, MANHOLE SCHEDULE, ABBREVIATIONS AND QUANTITIES SHEET
3	C3	GENERAL NOTES SHEET
4	C4	UTILITY PLAN
5	G1	GRADING PLAN
6	SS1	SANITARY SEWER PLAN AND PROFILE CASCADE POOLS AVENUE STA 13+02.61 - 16+96.85
7	SS2	SANITARY SEWER PLAN AND PROFILE CASCADE POOLS AVENUE STA 16+96.85 - 23+97.94
8	SS3	SANITARY SEWER PLAN AND PROFILE MORNING FALLS AVE. STA 10+31.90 - 13+98.72
9	SS4	SANITARY SEWER PLAN AND PROFILE MORNING FALLS AVE. STA 13+98.72 - 20+99.24
10	SS5	SANITARY SEWER PLAN AND PROFILE CATALINA HARBOR ST. STA 23+97.94 - 13+06.24
11	D1	DETAIL SHEET

APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT DATE

REV	DATE	BY

DATE:- Nov. 24, 1999
TIME:- 11:35:48
FILE:- n:\99902503\land\unit9b\vicinity.dgn

THE GATES, L.L.C.
7201 WEST LAKE MEAD BOULEVARD
SUITE 210
LAS VEGAS, NEVADA 89128

CVL CONSULTANTS, INC.
6280 S. Valley View Blvd.
Suite 200
Las Vegas, NV 89118
Tel: (702) 368-3008
Fax: (702) 368-0047

SHEET: VICINITY MAP, MANHOLE SCHEDULE, QUANTITIES AND ABBREVIATIONS

TITLE: LYNBROOK UNIT 9B

DRAWN BY: GA/ED/RS
DESIGNED BY: GB/GA/ED/FT
CHECKED BY: MPV
PROJECT NO:
SCALE:

SEAL

PROFESSIONAL ENGINEER-STATE OF NEVADA
MICHAEL P. VIALPANDO
CIVIL
No. 12631
12/14/99

SHEET C2
2 OF 11 SHEETS

CLV DRAWING NO.
1074-4576-9B

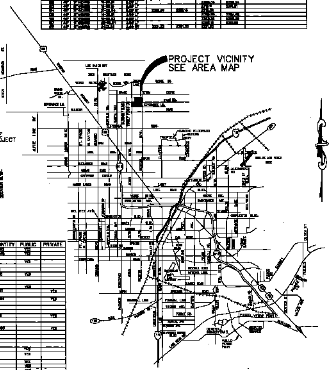
20159

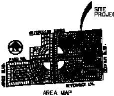
Call before you Dig
1-800-227-2600

Call before you Overhead
1-702-333-6411

MANHOLE SCHEDULE

M.H. #	I.D.	TYPE	STATION	OFFSET	N. INV. EL.	S. INV. EL.	W. INV. EL.	E. INV. EL.	COMMENTS
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]				
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		





AREA MAP
SCALE: NONE

ABBREVIATIONS

QUANTITY ESTIMATES

ITEM #	DESCRIPTION	UNIT	QUANTITY	PUBLIC	PRIVATE
1	4" SEWER	LF	[illegible]	YES	
2	8" SEWER	LF	[illegible]	YES	
3	10" SEWER	LF			
4	SEWER MANHOLES UNDER 8 FEET	EA	[illegible]	YES	
5	SEWER MANHOLES OVER 8 FEET	EA			
6	4" WATER MAIN	LF	[illegible]		
7	8" WATER MAIN	LF	[illegible]	YES	
8	12" WATER MAIN	LF			
9	16" WATER MAIN	LF			
10	FIRE HYDRANT	EA	2	YES	
11	ROLL CURB & GUTTER	LF	[illegible]		YES
12	8' WIDE VALLEY GUTTER	SF			
13	SIDEWALK 4"	SF	[illegible]		YES
14	[illegible]	EA			
15	[illegible]	EA			
16	TYPE [illegible] BASE	CY			
17	TYPE II GRAVEL BASE	CY	[illegible]		YES
18	4" ASPHALTIC CONCRETE PAVING	SY			
19	3" ASPHALTIC CONCRETE PAVING	SY			
20	2" ASPHALTIC CONCRETE PAVING	SY	[illegible]		YES
21	[illegible]	EA			
22	STREETLIGHT [illegible]	EA			
23	SURVEY MONUMENTS	EA	1		
24	[illegible]	EA			
25	[illegible]	EA	21	YES	
26	[illegible] METER FOR FUTURE UNIT [illegible]	EA	1	YES	
27	8" TEE	EA		YES	
28	8" X 8" X 8" TEE	EA	1	YES	
29	8" GATE VALVE	EA	1	YES	
30	8" X 6" REDUCER	EA		YES	
31	8" 45° BEND	EA		YES	
32	8" 22.5° BEND	EA		YES	
33	8" 11.25° BEND	EA		YES	
34	1" COPPER WATER SERVICE	EA	[illegible]	YES	
35	[illegible]	EA	[illegible]		YES

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10	SS5	SANITARY SEWER PLAN AND PROFILE CATALINA HARBOR ST. STA [illegible]
11	D1	DETAIL SHEET

APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT DATE

THE GATES, L.L.C.

VICINITY MAP, MANHOLE SCHEDULE, QUANTITIES AND ABBREVIATIONS

LYNBROOK

UNIT 9B