

MATCHLINE - SEE SHEET U1

138-02-102-001

SSMH #28
RIM 2311.6 ±
INV OUT 2304.12
N 26791526.6807
E 758445.6363

156 LF ~ 8" PVC WATER (PUBLIC)
128.49 LF ~ 8" PVC SEWER @ 0.0080 (PUBLIC)

SSMH #30
RIM 2310.7 ±
INV OUT 2304.70
N 26791427.0151
E 758437.0949

150 LF ~ 8" PVC WATER (PUBLIC)
127.00 LF ~ 8" PVC SEWER @ 0.0080 (PUBLIC)

SSMH #32
RIM 2312.6 ±
INV OUT 2306.74
N 26791418.462
E 758343.5869

150 LF ~ 8" PVC WATER (PUBLIC)
127.00 LF ~ 8" PVC SEWER @ 0.0080 (PUBLIC)

SSMH #33
RIM 2312.2 ±
INV IN 2306.23
N 26791334.0008
E 758334.2343

150 LF ~ 8" PVC WATER (PUBLIC)
127.00 LF ~ 8" PVC SEWER @ 0.0080 (PUBLIC)

SSMH #34
RIM 2312.7 ±
INV IN 2306.92
N 26791302.9817
E 758433.8242

150 LF ~ 8" PVC WATER (PUBLIC)
127.00 LF ~ 8" PVC SEWER @ 0.0080 (PUBLIC)

SSMH #35
RIM 2312.9 ±
INV IN 2306.69
N 26791340.8792
E 758270.0826

150 LF ~ 8" PVC WATER (PUBLIC)
127.00 LF ~ 8" PVC SEWER @ 0.0080 (PUBLIC)

SSMH #36
RIM 2312.7 ±
INV IN 2306.92
N 26791302.9817
E 758433.8242

150 LF ~ 8" PVC WATER (PUBLIC)
127.00 LF ~ 8" PVC SEWER @ 0.0080 (PUBLIC)

SSMH #37
RIM 2312.7 ±
INV IN 2306.92
N 26791302.9817
E 758433.8242

150 LF ~ 8" PVC WATER (PUBLIC)
127.00 LF ~ 8" PVC SEWER @ 0.0080 (PUBLIC)

SSMH #38
RIM 2312.7 ±
INV IN 2306.92
N 26791302.9817
E 758433.8242

150 LF ~ 8" PVC WATER (PUBLIC)
127.00 LF ~ 8" PVC SEWER @ 0.0080 (PUBLIC)

SSMH #39
RIM 2312.7 ±
INV IN 2306.92
N 26791302.9817
E 758433.8242

150 LF ~ 8" PVC WATER (PUBLIC)
127.00 LF ~ 8" PVC SEWER @ 0.0080 (PUBLIC)

SSMH #40
RIM 2312.7 ±
INV IN 2306.92
N 26791302.9817
E 758433.8242

150 LF ~ 8" PVC WATER (PUBLIC)
127.00 LF ~ 8" PVC SEWER @ 0.0080 (PUBLIC)

SSMH #41
RIM 2312.7 ±
INV IN 2306.92
N 26791302.9817
E 758433.8242

150 LF ~ 8" PVC WATER (PUBLIC)
127.00 LF ~ 8" PVC SEWER @ 0.0080 (PUBLIC)

SSMH #42
RIM 2312.7 ±
INV IN 2306.92
N 26791302.9817
E 758433.8242

150 LF ~ 8" PVC WATER (PUBLIC)
127.00 LF ~ 8" PVC SEWER @ 0.0080 (PUBLIC)

SSMH #43
RIM 2312.7 ±
INV IN 2306.92
N 26791302.9817
E 758433.8242

150 LF ~ 8" PVC WATER (PUBLIC)
127.00 LF ~ 8" PVC SEWER @ 0.0080 (PUBLIC)

SSMH #44
RIM 2312.7 ±
INV IN 2306.92
N 26791302.9817
E 758433.8242

150 LF ~ 8" PVC WATER (PUBLIC)
127.00 LF ~ 8" PVC SEWER @ 0.0080 (PUBLIC)

BASIS OF BEARINGS

SOUTH 00°04'13" WEST BEING THE BEARING OF THE EAST LINE OF THE NORTHWEST QUARTER (NE 1/4) OF THE NORTHWEST QUARTER (NW 1/4) OF SECTION 2, TOWNSHIP 20 SOUTH, RANGE 80 EAST, M.D.M., CITY OF LAS VEGAS, CLARK COUNTY, NEVADA AS SHOWN ON THE MAP ON FILE IN THE CLARK COUNTY RECORDER'S OFFICE, CLARK COUNTY, NEVADA IN FILE 99 OF PARCEL MAPS, AT PAGE 42

BENCHMARK

CLV #0000 2NNW
RIVET AND PLATE IN TOP OF CURB @ SE CORNER OF LONE MOUNTAIN AND RANCHO.
ELEVATION (NAVD 88): 706.7908 METERS
2318.86 FEET

WATERMAIN 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 2.08.01 AND 2.08.02.

WATER QUANTITIES

A	INSTALL FIRE HYDRANT ASSEMBLY PER UDACS STD. PLATE NO. 7
B	1" MVR METER
C	1" K COPPER LATERAL PER UDACS PLATE 1B
D	1" IRRIGATION METER PER UDACS PLATE #10
E	1" RPPA PER UDACS PLATE #11A
F	6" CAP AND BLOWOFF ASSEMBLY PER UDACS STD. PLATE NO. 4A
G	8" CAP AND BLOWOFF ASSEMBLY PER UDACS STD. PLATE NO. 4A
H	12" CAP AND BLOWOFF ASSEMBLY PER UDACS STD. PLATE NO. 4A
I	6" GATE VALVE PER UDACS STD. PLATE NO. 8
J	8" GATE VALVE PER UDACS STD. PLATE NO. 8
K	12" GATE VALVE PER UDACS STD. PLATE NO. 8
L	8" TEE
M	8"x6" TEE
N	10"x6" TEE
O	8"x6" CROSS
P	8"x6" REDUCER
Q	10"x8" REDUCER
R	8" 45° BEND
S	8" 5° BEND
T	10" 90° BEND
U	10" GATE VALVE PER UDACS STD. PLATE NO. 8
V	12"x10" TEE
W	NOT USED
X	CONNECT TO EXISTING PER UDACS PLATE 4A

SEWER QUANTITIES

A	CONSTRUCT STANDARD ECCENTRIC MANHOLE PER DCSWCS PLATE SD-1
B	CONSTRUCT SPECIAL MANHOLE "B" PER DCSWCS PLATE SD-10
C	INSTALL SEWER LATERAL PER DCSWCS PLATE SD-17

REDUCED PRESSURE PRINCIPLE ASSEMBLY (3) 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 LVWD.

ANY BLOCK WALL OR OTHER FENCE MATERIAL SHALL BE DESIGNED AND CONSTRUCTED AROUND THE OUTSIDE OF THE EASEMENT(S) TO ALLOW THE DISTRICT DIRECT ACCESS FROM THE ADJACENT RIGHT-OF-WAY.

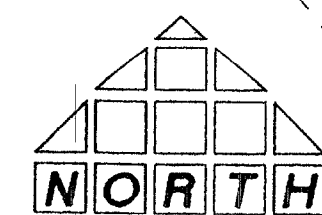
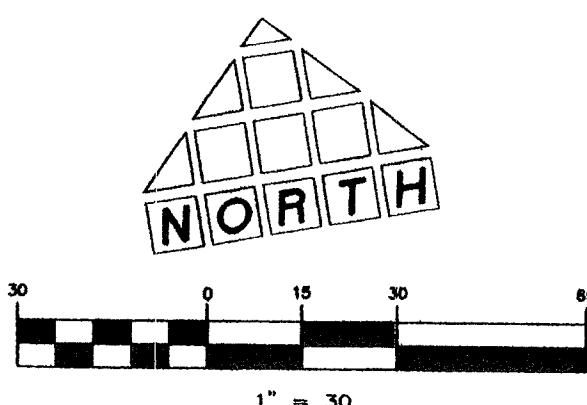
EASEMENTS SHALL BE CLEARLY MARKED OR STAKED PRIOR TO THE START OF CONSTRUCTION.

NOTE

INSTALL PIPELINE MARKER BALLS IN TRENCH ABOVE EACH HORIZONTAL ELBOW FITTING, PER UDACS PLATE NO. 27. ESN.082

ALL SEWER/STORM DRAINS CROSSING WATER LINES MUST CONFORM TO SECTION 2.19 OF THE UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR POTABLE WATER SYSTEMS (UDACS) FOR WATER AND STORM MAIN CROSSINGS AND CLEARANCES.

FIRE SPRINKLER SYSTEM SHALL BE PLUMBED TO MASTER TOILET. NO EXCEPTIONS ALLOWED.

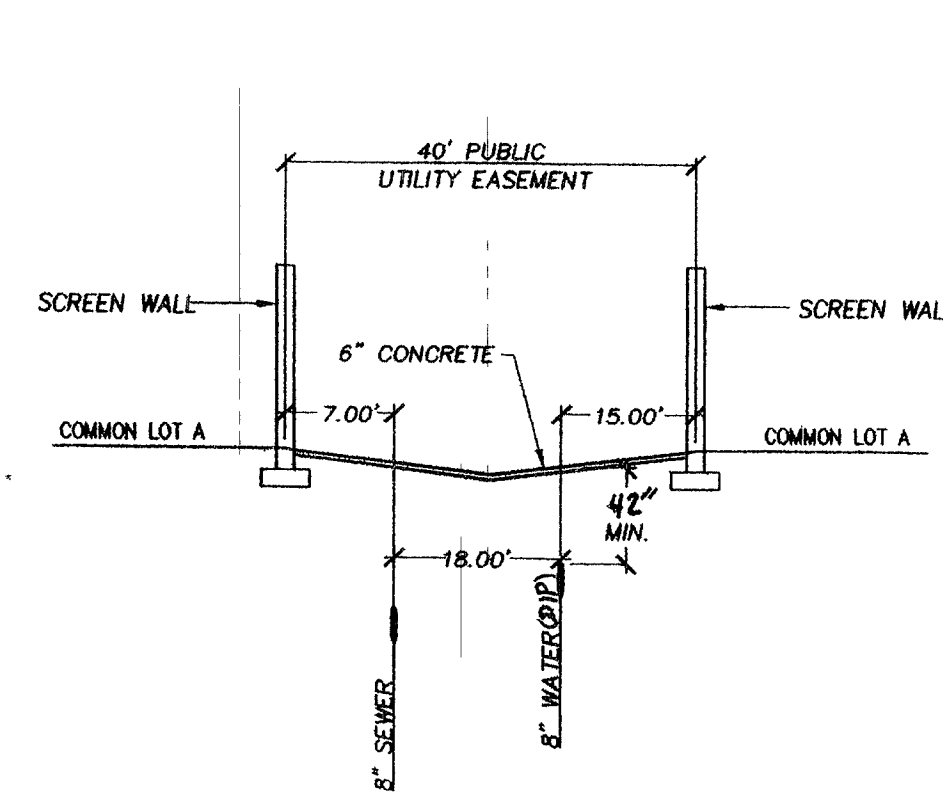


LONE MOUNTAIN ROAD

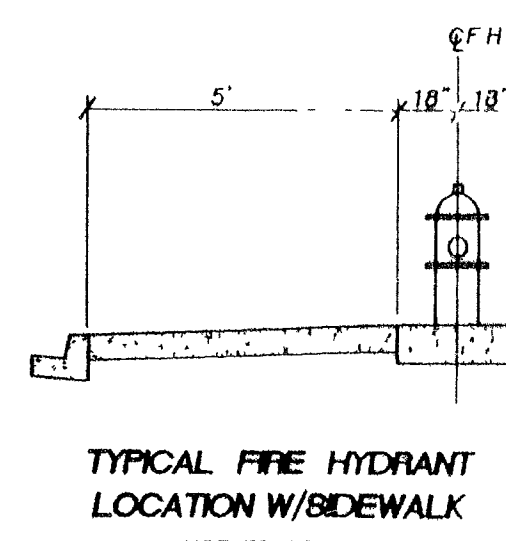
PARCELS DRIVE

TORREY PINES DRIVE

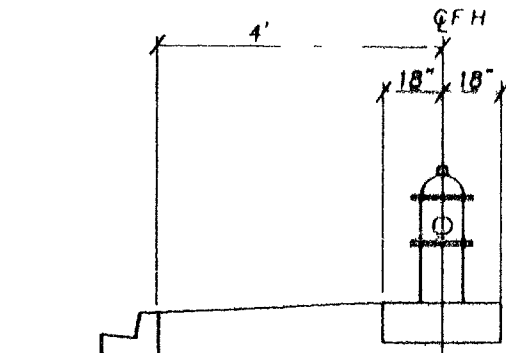
KEYMAP
NOT TO SCALE



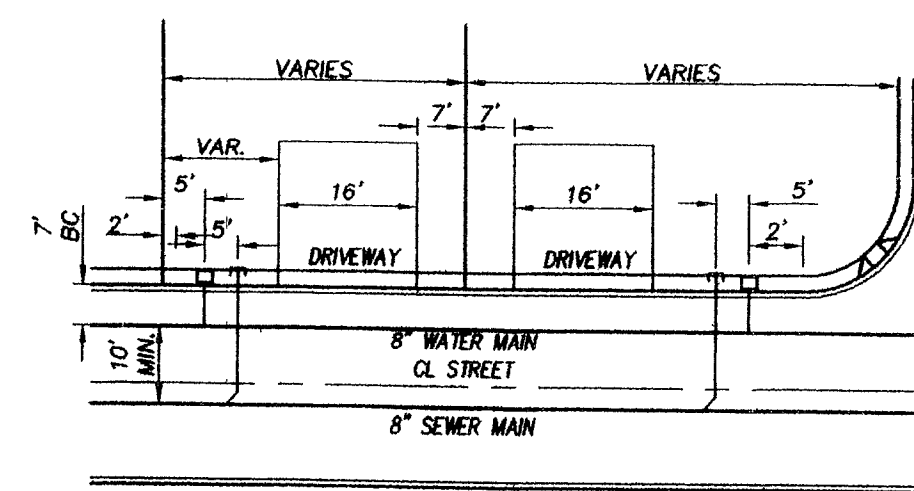
40' UTILITY EASEMENT - SECTION
NTS



TYPICAL FIRE HYDRANT LOCATION W/SIDEWALK
NOT TO SCALE



TYPICAL FIRE HYDRANT LOCATION W/O SIDEWALK
NOT TO SCALE



LATERAL NOTES

WATER & SEWER SERVICE LATERALS SHALL BE INSTALLED IN SEPARATE TRENCHES A MINIMUM OF 48" APART. WATER LATERALS SHALL BE A MINIMUM OF 12" ABOVE THE SEWER LATERAL. (REF. UNIFORM PLUMBING CODE). WATER LATERAL SHALL BE PLACED 18" ABOVE SEWER MAINS AND LATERALS AT CROSSINGS.

TYPICAL LATERAL LOCATION

APPROVALS

LAS VEGAS VALLEY WATER DISTRICT
PROJECT #113131

CLV FIRE DEPARTMENT

2/6/05
DATE

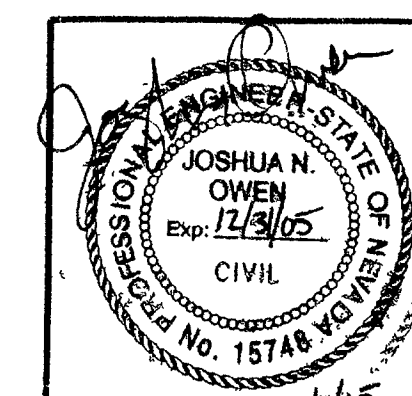
1/1/05
DATE

THOMSON
CONSULTING
ENGINEERS

3161 E. WARM SPRINGS ROAD, SUITE 200
LAS VEGAS, NEVADA 89120
702-932-6125 FAX 702-932-6129

RICHMOND AMERICAN HOMES
LONE MOUNTAIN / TORREY PINES

UTILITY PLAN



SHEET
U2
8 OF 21
DRAWING NO.
10744854