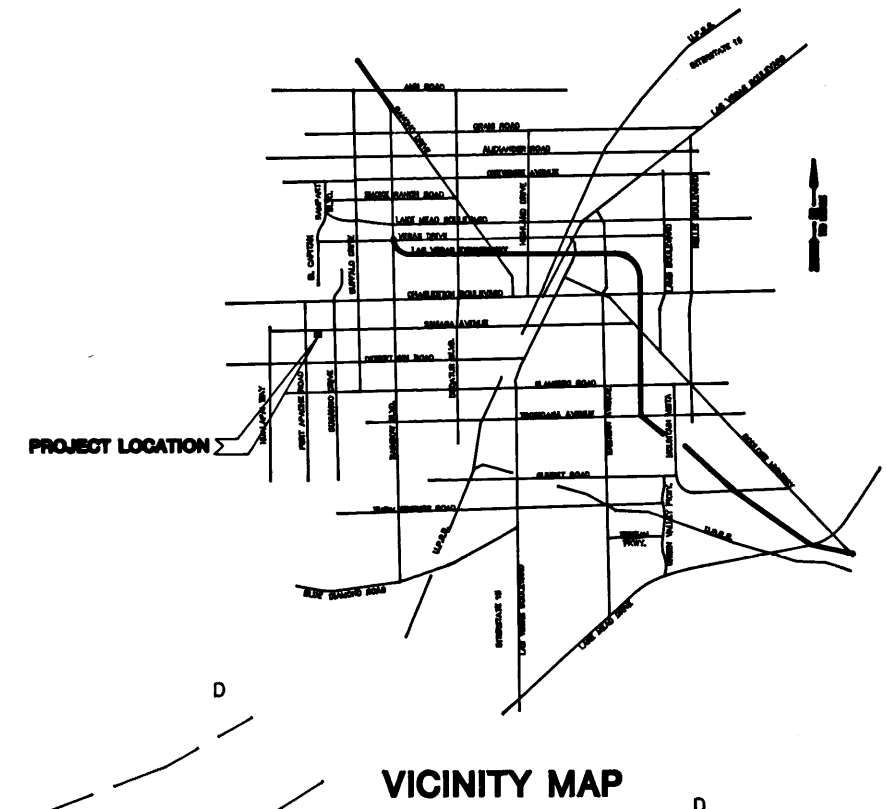


NOTE:

EXISTING UTILITY LOCATIONS SHOWN HEREIN ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT VERTICAL AND HORIZONTAL LOCATION OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO COMMENCING CONSTRUCTION. NO REPRESENTATION IS MADE THAT ALL EXISTING UTILITIES ARE SHOWN HEREON. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR UTILITIES NOT SHOWN OR UTILITIES NOT SHOWN IN THEIR PROPER LOCATION.

BENCHMARK

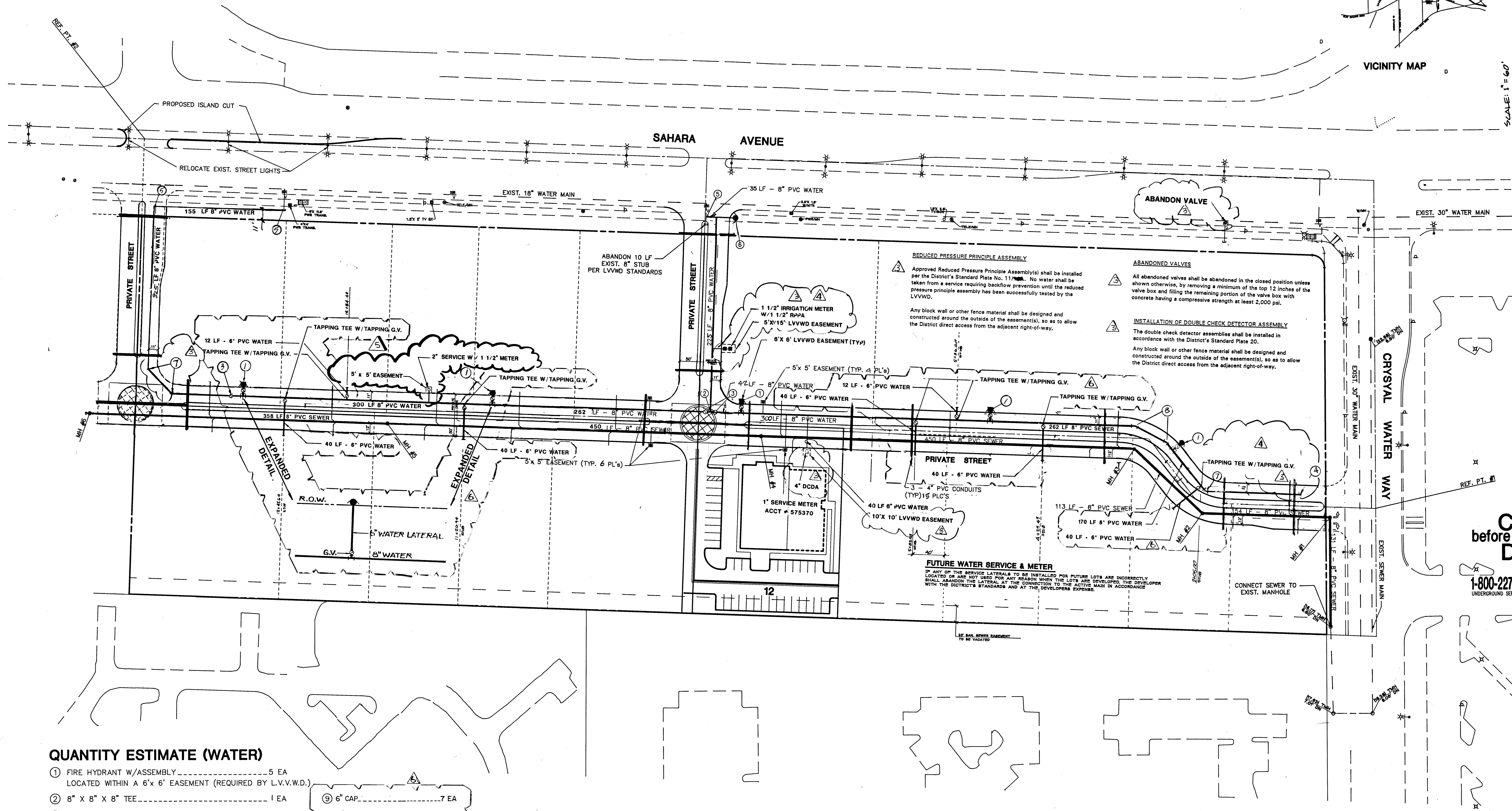
CLV BM # 24/1LV105SWS
RIVET & PLATE IN CURB, NE QUAD. OF
FORT APACHE & SAHARA
ELEVATION = 2786.505



VICINITY MAP

SCALE: 1" = 60'

REVISION	DATE	BY	REVISION
1	10/19/96	CPA	REMOVED 1" BURN OFF
2	6/22/97	DWB	ADD 6" WATER STUBS
3	10/19/95	CPA	REMOVED 1" BURN OFF
4	10/19/95	CPA	ADD 6" WATER STUBS
5	10/19/95	CPA	REMOVED 1" BURN OFF
6	10/19/95	CPA	ADD 6" WATER STUBS
7	10/19/96	CPA	REMOVED 1" BURN OFF
8	10/19/96	CPA	ADD 6" WATER STUBS
9	10/19/96	CPA	REMOVED 1" BURN OFF
10	10/19/96	CPA	ADD 6" WATER STUBS
11	10/19/96	CPA	REMOVED 1" BURN OFF
12	10/19/96	CPA	ADD 6" WATER STUBS
13	10/19/96	CPA	REMOVED 1" BURN OFF
14	10/19/96	CPA	ADD 6" WATER STUBS
15	10/19/96	CPA	REMOVED 1" BURN OFF
16	10/19/96	CPA	ADD 6" WATER STUBS
17	10/19/96	CPA	REMOVED 1" BURN OFF
18	10/19/96	CPA	ADD 6" WATER STUBS
19	10/19/96	CPA	REMOVED 1" BURN OFF
20	10/19/96	CPA	ADD 6" WATER STUBS



QUANTITY ESTIMATE (WATER)

- 1 FIRE HYDRANT W/ASSEMBLY.....5 EA
LOCATED WITHIN A 6' X 6' EASEMENT (REQUIRED BY L.V.V.W.D.)
- 2 8" X 8" X 8" TEE.....1 EA
- 3 8" GATE VALVE.....3 EA
- 4 8" CAP W/2" BLOWOFF.....1 EA
- 5 8" 90° ELBOW.....3 EA
- 6 TEMPORARY FIRE HYDRANT.....1 EA
- 7 45° ELBOW.....3 EA
- 8 22 1/2" ELBOW.....2 EA
- 9 1" METER FROM LVVWD.....1 EA
- 10 1" SERVICE LATERAL.....39 LF
- 11 3/4" METER FROM L.V.V.W.D.....3 EA
- 12 8" WATER MAIN.....2064 LF
- 13 3/4" SERVICE LATERAL.....112 LF
- 14 4" PVC CONDUITS.....1169 LF
- 15 1 1/2" IRRIGATION METER.....1 EA

9 6" CAP.....7 EA
10 6" WATER MAIN.....224 LF
11 6" GATE VALVE.....2 EA

MANHOLE CONTROL TABLE

MH #	NORTHING	EASTING
1	4489.3373	7827.6779
2	4494.9379	7674.2712
3	4572.9598	7592.8675
4	4589.3775	7143.1671
5	4605.7952	6693.4667
6	4618.1536	6354.9559
REFERENCE POINTS		
1	4500.3258	7883.0138
2	4948.8137	6402.0510

QUANTITY ESTIMATE (SEWER)

- 4" DIAMETER MANHOLE.....4 EA
- 8" SEWER MAIN (PUBLIC).....1056 LF
- 4" SEWER LATERALS.....657 LF

NOTE: THESE QUANTITIES ARE ONLY ESTIMATES, CONTRACTOR TO VERIFY.

APPROVAL

James B. Pearson
LAS VEGAS VALLEY WATER DISTRICT

J. Lopardo
CLV FIRE DEPARTMENT

DATE: 4/1/94

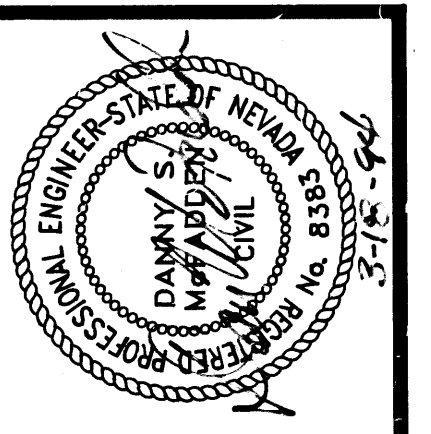
DATE: 3/31/94

21 60 08

MASTER UTILITY PLAN

PHASE 1 LOT 12

LAKES BUSINESS CENTER



ESI ENGINEERS AND
SURVEYORS INC.
PLANNERS • CONSULTING ENGINEERS • SURVEYORS
708 W. CHARLESTON BLVD. • LAS VEGAS, NEVADA 89102 • (702) 363-4415

W.D. # : 210-B020
BY : T.B.
DATE : FEB. 1994
SCALE : 1" = 60'

SHEET 7 OF 8