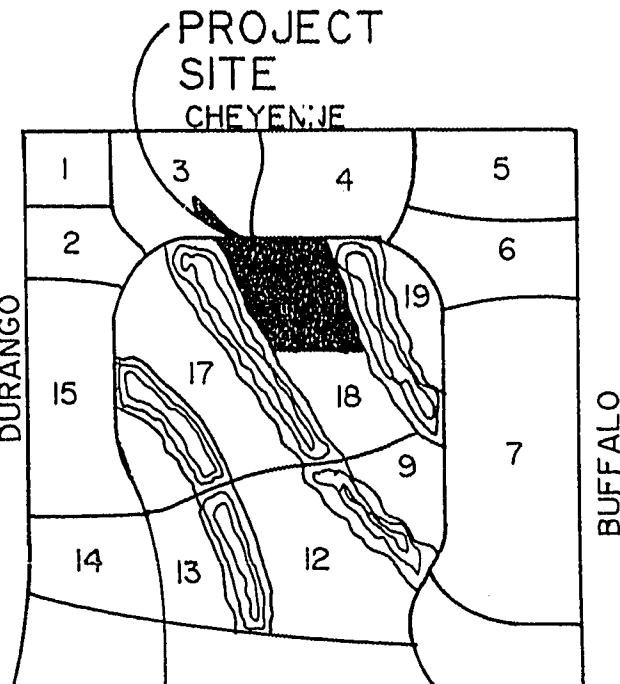


CURVE	ARC	DELTA	RADIUS	TAN LENGTH
C1	78.54	90.00	50.00	50.00
C2	288.53	43.18	375.00	148.38
C3	144.12	28.01	375.00	72.36
C4	206.31	48.99	375.00	108.71
C5	211.62	38.60	375.00	105.28
C6	205.09	34.19	375.00	105.18
C7	205.89	34.00	375.00	111.08
C8	185.88	45.00	375.00	135.33
C9	187.08	24.00	375.00	78.74
C10	84.82	100.00	50.00	80.31
C11	73.79	19.84	250.00	39.17
C12	143.98	31.00	300.00	118.86
C13	188.72	14.31	300.00	63.70
C14	143.81	18.28	250.00	74.00
C15	143.98	31.00	300.00	118.86
C16	208.44	24.00	300.00	108.28
C17	130.11	14.84	250.00	39.75
C18	78.33	9.05	250.00	28.33
C19	242.98	55.40	250.00	132.04
C20	156.56	17.58	250.00	78.40
C21	156.56	43.45	250.00	100.28
C22	378.04	43.19	300.00	138.57
C23	156.56	17.58	250.00	78.40
C24	156.56	43.45	250.00	100.28
C25	214.97	24.38	300.00	109.17
C26	53.40	9.07	250.00	28.33
C27	156.56	17.58	250.00	78.40
C28	300.09	42.59	300.00	127.80
C29	254.16	38.24	300.00	121.39
C30	45.83	8.34	250.00	28.33
C31	85.10	19.30	250.00	42.98
C32	75.78	17.82	250.00	39.17
C33	5.38	2.05	250.00	4.86

LINE	BEARING	DISTANCE
L1	1.15.33	88.00
L2	1.15.33	84.00
L3	1.15.33	6.00
L4	88.44.27	10.00
L5	1.15.33	10.00
L6	88.44.27	36.69
L7	88.44.27	82.85
L8	88.44.27	82.85
L9	1.15.33	84.00
L10	1.15.33	84.00
L11	88.44.27	36.69
L12	1.15.33	133.18
L13	1.15.33	133.18
L14	88.44.27	10.00

NOTE: Contractor to Pot Hole to Verify end location of existing 8" PVC Sanitary Sewer prior to actual construction. Contractor to notify Engineering 48 hours in advance to field check existing invert elevation.



LEGEND
 --- EXISTING SANITARY SEWER
 --- EXISTING WATER MAIN
 --- EXISTING STREET LIGHT
 ⊙ LOT NUMBER
 ⊕ BLOCK NUMBER
 △ DRIVEWAY LOCATION

SEWER ESTIMATE
 4" STANDARD MANHOLES 24 EACH
 8" PVC SEWER MAIN 5751 L.F.
 4" PVC SEWER LATERALS 3514 L.F.

SEWER/WATER AS-BUILTS
 *LATERAL LOCATIONS ARE NOT TO SCALE, REFER TO DIMENSIONS

- C L V SEWER NOTES
- ALL SANITARY SEWER INSTALLATIONS SHALL CONFORM TO THE STANDARD DETAILS AND SPECIFICATIONS OF THE CITY OF LAS VEGAS, AND SHALL ALSO CONFORM TO THE UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OF OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, LATEST EDITION, UNLESS OTHERWISE NOTED.
 - CHISEL "S" OR "G" IN CURBS WHERE SEWER OR GAS LATERALS PASS UNDER THE CURB.
 - POLYVINYL (PVC) SEWER PIPE SHALL MEET ASTM D-3034 SDR 35 SPECIFICATIONS, AND INSTALLED WITH SAND BEDDING AND BACKFILL OR TYPE II GRAVEL.
 - ALL MANHOLES IN PAVED STREETS 80' R/W AND LARGER, SHALL HAVE CONCRETE COLLARS.
 - THE SADDLES SHALL BE USED TO CONNECT SEWER LATERALS TO EXISTING MAIN LINES UP TO 12" DIA. SIZE. CONNECTIONS TO 15" OR LARGER MAINS SHALL REQUIRE SPECIAL PROCEDURES.
 - A SEWER MAIN CROSSING OVER A MAIN OR LESS THAN 18" UNDER A WATER MAIN MUST BE REINFORCED CONCRETE ENCASED PIPE FOR A DISTANCE NOT LESS THAN TEN FEET (10') TO EACH SIDE OF THE CENTERLINE OF THE WATER MAIN.

EXISTING UTILITIES ARE LOCATED ON PLANS FOR THE CONVENIENCE OF THE CONTRACTOR ONLY. THE ENGINEER BEARS NO RESPONSIBILITY FOR THE LOCATION OF UTILITIES SHOWN OR NOT SHOWN IN THE PLANS. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES BEFORE STARTING CONSTRUCTION AND IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE LOCATION OF ALL UTILITIES WITH THE UTILITY COMPANIES.

NO.	DATE	BY	REVISION

2-6-89

SOUTHWEST ENGINEERING
 LAND PLANNING • MAPPING • DEVELOPMENT
 1725 S. RAINBOW BLVD., SUITE 204, LAS VEGAS, NEVADA 89102
 (702) 885-9700

MASTER SEWER PLAN
 HARBOR COVE

W.O. No. 880822
 BY RICHARD S.
 DATE JAN. 89
 SCALE 1" = 60'

1-800-227-2600
 UNDERGROUND SERVICE USA

SHEET 12
 OF 13 SHEETS

134 "As Built" 3074-1036