

NOTE: FOR EXISTING SEWER, SEE "THE LAKES" UNIT A.

NOTE: CONTRACTOR TO CONNECT SEWER LATERALS TO EXISTING WYE STUBS.

FOR EXISTING STREET IMPROVEMENTS ON LAKE SOUTH DRIVE & CASTLE GATE DRIVE SEE E. 1/2 SEC. 7 "THE LAKES AT WEST SAHARA - PHASE 2."



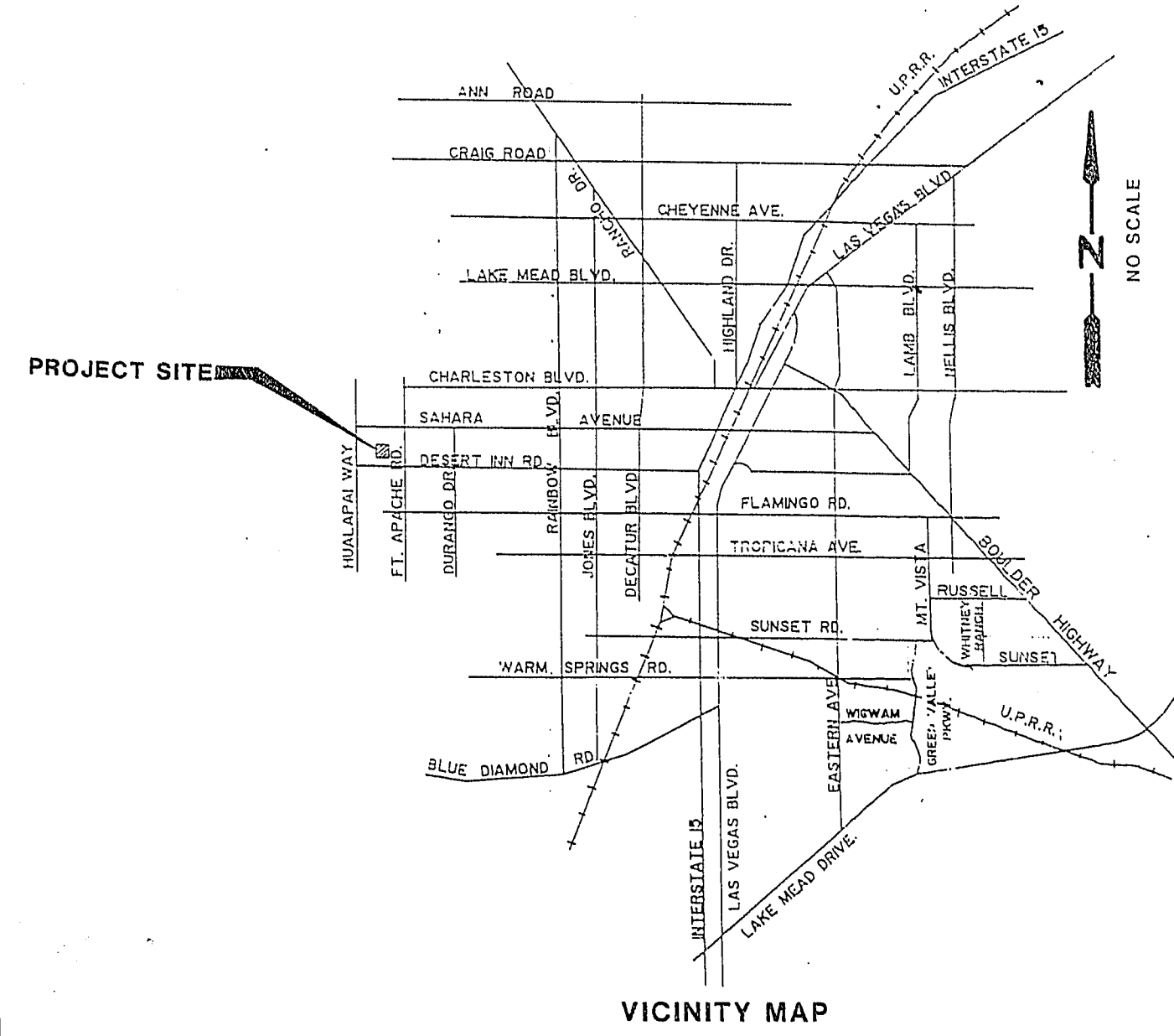
REV	DATE	BY	REVISION
1	1-24-89	TB	REVISED DW LOCATIONS
2	2-2-89	TB	

ESI ENGINEERS & SURVEYORS INC.
 1015 W. LAS VEGAS BLVD. SUITE 1000 LAS VEGAS, NV 89102
 REGISTERED PROFESSIONAL ENGINEERS AND SURVEYORS
 LICENSE NO. 1126189
 SUBMITTED BY: [Signature]
 VALERIE CIVIL

TITLE: MASTER SEWER PLAN
 PROJECT: THE LAKES UNIT B

WO NO. 5109D
BY Y. MARRUJO
DATE 1/89
SCALE 1" = 40'

SHEET
5
 OF 7 SHEETS



QUANTITY ESTIMATE
 4" SEWER LATERALS 428 L.F.
 NOTE: THESE QUANTITIES ARE ONLY ESTIMATES,
 CONTRACTOR TO VERIFY.

- CITY OF LAS VEGAS 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 CHLORIDE (PVC) SEWER PIPE SHALL MEET ASTM D-3034 SDR 35 SPECIFICATIONS, AND INSTALLED WITH SAND BEDDING AND BACKFILL OR TYPE 11 GRAVEL.
 - ALL MANHOLES IN PAVED STREETS 80' R/W AND LARGER, SHALL HAVE CONCRETE COLLARS.
 - TEE 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 WATER 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.

BENCHMARK
 CLARK COUNTY BENCHMARK NO. C105W01:
 RAILROAD SPIKE @ INTERSECTION OF
 SAHARA AVENUE & DURANGO ROAD.
 C.L.V. = 2658.59
 C.C. 2659.63

Call before you Dig.
 1-800-227-2600
 UNDERGROUND SERVICE USA