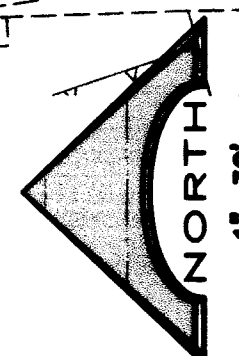
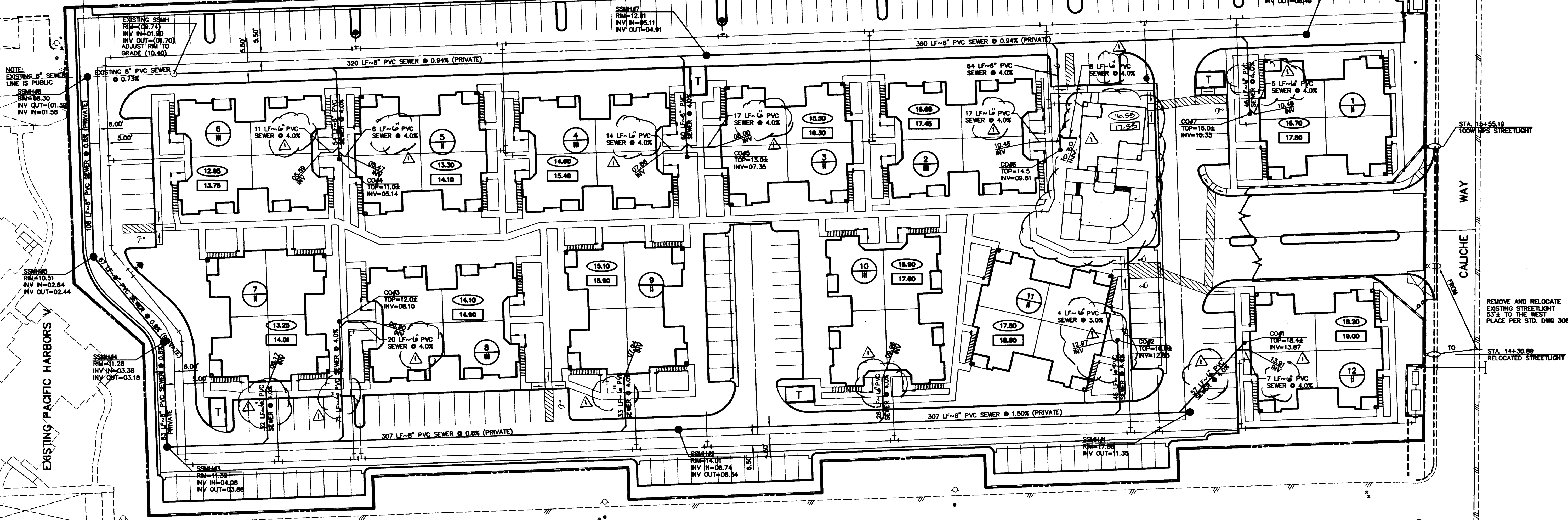
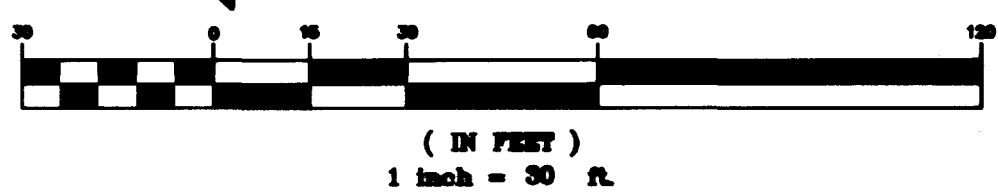


NOTE:
EXISTING MANHOLE IS FULL OF ROCK AND DEBRIS.
EXISTING INVERT SHOWN IS TAKEN FROM P.L. KNOTT
C.I.V. DRAWING No. 307Y-4295-3
CONSTRUCTOR SHALL FIELD VERIFY INVERT AND NOTIFY
THE ENGINEER OF ANY DISCREPANCIES PRIOR TO
CONSTRUCTION.



GRAPHIC SCALE



LEGEND

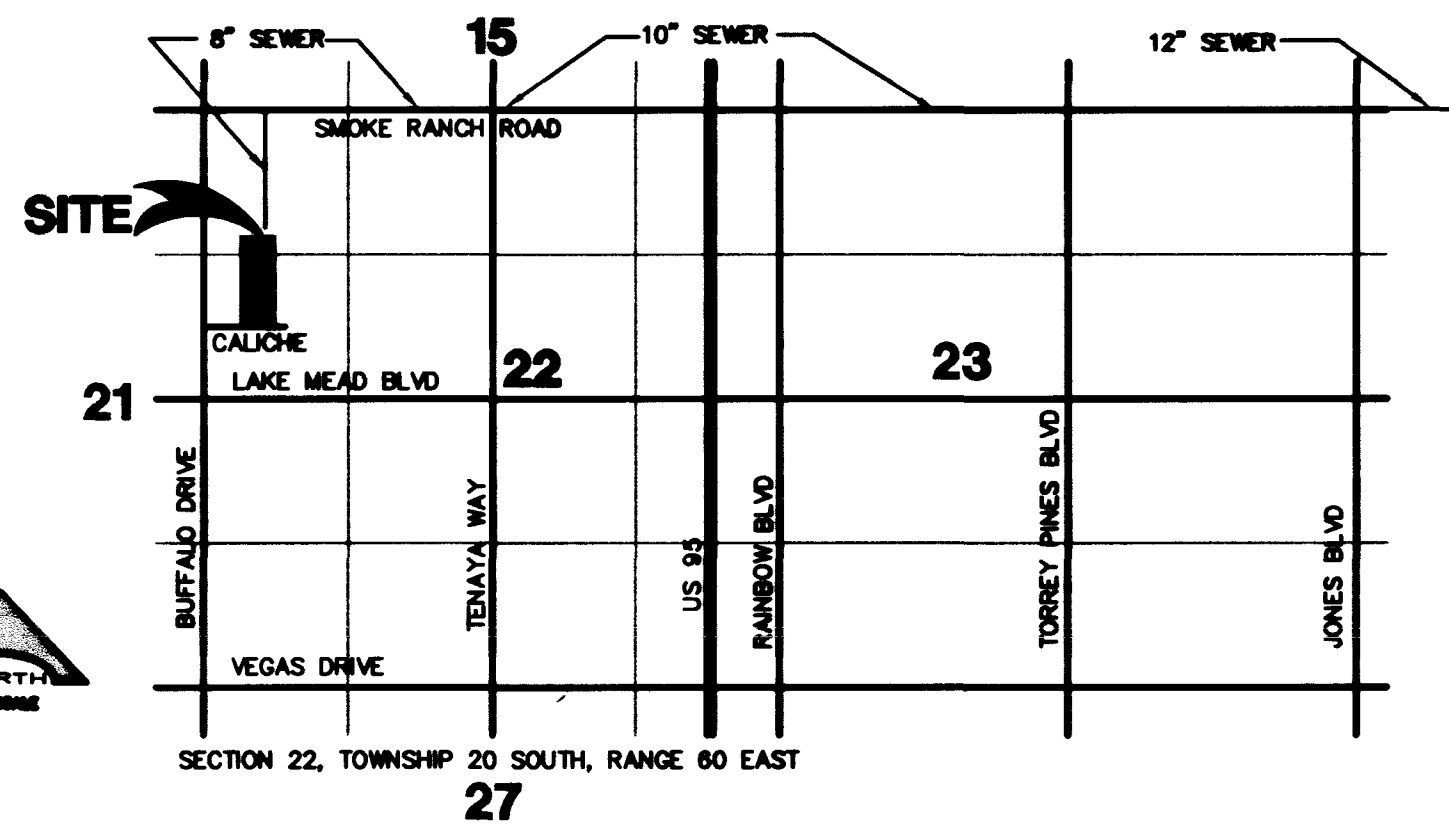
- W — EXISTING WATER LINE
- SS — EXISTING SEWER LINE
- EXISTING FIRE HYDRANT
- EXISTING VALVE
- EXISTING MANHOLE
- PROPOSED SEWER LINE
- PROPOSED WATERLINE
- PROPOSED FIRE HYDRANT
- PROPOSED VALVE
- PROPOSED MANHOLE
- CLEANOUT

ESTIMATE OF QUANTITIES

SANITARY MANHOLE	8 EA
8" PVC SEWER LINE	1532 LF
8" CLEANOUT	7 EA
6" PVC SEWER	651 LF

BENCH MARK

OLV00-21E4
ELEVATION = 740.034 METERS (2427.93 FEET) NAVD 88
RIVET & PLATE IN TOP OF CURB, NW RETURN OF BUFFALO DRIVE
AND LAKE MEAD BOULEVARD.



VICINITY MAP

SEWER CONTRIBUTION

AVERAGE DAILY FLOW = 12,800 G.P.D.
PEAK FLOW = 57,120 G.P.D.

STREET LIGHT NOTES

ALL STREET LIGHT 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 OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, LATEST EDITION, UNLESS OTHERWISE NOTED.

DISCLAIMER NOTE

UTILITY LOCATIONS SHOWN HEREON ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING UNDERGROUND AND OVERHEAD 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.

Call before you dig
1-800-227-2600
UNDEGROUND SERVICE (USA)

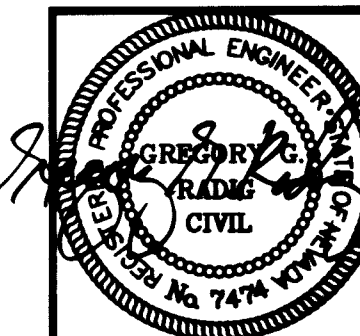
Call before you overhead
1-702-593-6111
NEVADA POWER COMPANY AND
UTILITY SERVICE INFORMATION

SEWER NOTES

- ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE "DESIGN & CONSTRUCTION STANDARDS FOR WASTEWATER COLLECTION SYSTEMS" AND THE "UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS" CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA, AS AMENDED. IN ALL CASES, THESE STANDARDS, SHALL SUPERSEDE THE UNIFORM STANDARD SPECIFICATIONS. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO BE AWARE OF THE CONTENTS OF THE ABOVE SPECIFICATION BOOKS.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PERFORM CONSTRUCTION AS PER PLANS. ANY ADDITIONS, DELETIONS, OR CHANGES SHALL FIRST MEET WITH THE APPROVAL OF THE CONTROLLING AGENCY.
- 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, INSTALLED WITH SAND BEDDING AND BACKFILL OF TYPE II 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 FOR A DISTANCE NOT LESS THAN TEN FEET (10') TO EACH SIDE OF THE CENTERLINE OF THE WATER MAIN.
- ALL CONTRACTORS INSTALLING SEWER MAINS THAT WILL BE UNDER THE JURISDICTION OF THE CONTROLLING AGENCY MUST BE CLASS "A" CONTRACTORS.
- THE CITY OF LAS VEGAS WILL NOT ACCEPT ANY SEWER MAINS WHICH HAVE A VERTICAL DEFLECTION OF MORE THAN ONE TENTH (0.1) OF A FOOT FROM THE APPROVED CONSTRUCTION PLANS. SEWER MAINS FOUND TO EXCEED THIS TOLERANCE WILL HAVE TO BE REPAIRED OR REMOVED AND REPLACED TO THE SATISFACTION OF THE CITY ENGINEER PRIOR TO ACCEPTANCE BY THE CITY.

APPROVALS

NEVADA POWER COMPANY
THIS APPROVAL IS ONLY FOR STREETLIGHT PLACEMENT AND
CLEARANCE AND SIGNAL LIGHT INSTALLATION.



DESIGNED BY: PK	DRAWN BY: RD	CHKD BY: RD	DATE: 2-21-97
JOB NUMBER: 812-002-962	REVISION:	NO.	DATE APPL:
SHOWN ALL "S" VALVES LAY TO "S" ROTATED			
SEE: BLOCK # 1508			

L. R. NELSON CONSULTING ENGINEERS, INC.
3035 East Patrick Lane Suite 9
Las Vegas, Nevada 89120
(702) 798-7978
(702) 451-2296 FAX

SEWER PLAN
LAKE MEAD CONDOMINIUMS
WARMINGTON HOMES
CITY OF LAS VEGAS NEVADA

SHEET NUMBER
4
OF 5 SHEETS
812-002-962

107-V2686

