

GENERAL NOTES

- CONSTRUCTION SURVEYS: GRADES ARE GIVEN FROM TOP OF STAKES OR NAILS. THE CONTRACTOR IS CAUTIONED TO OBSERVE THE FOLLOWING RULE IN USING THE GRADE STAKES: THREE CONSECUTIVE POINTS THAT ARE SHOWN TO BE THE SAME RATE OF SLOPE MUST BE USED IN COMMON, IN ORDER THAT ANY VARIATION OUT OF A PERFECT STRAIGHT GRADE MAY BE DETECTED, AND IN CASE ANY SUCH DISCREPANCY IS FOUND, THE SAME MUST BE REPORTED TO THE ENGINEER.
- THE CONTRACTOR SHALL, AT HIS OWN EXPENSE, LOCATE ALL OVERHEAD INTERFERENCES WHICH MAY AFFECT HIS OPERATION DURING CONSTRUCTION AND SHALL TAKE ALL NECESSARY PRECAUTIONS TO AVOID DAMAGE TO SAME. THE CONTRACTOR SHALL USE EXTREME CAUTION WHEN WORKING NEAR OVERHEAD OR UNDERGROUND POWER AND/OR TELEPHONE FACILITIES SO AS TO SAFELY PROTECT ALL PERSONNEL AND EQUIPMENT, AND SHALL BE RESPONSIBLE FOR ALL COSTS AND LIABILITY IN CONNECTION THEREWITH.
- EXISTING UTILITIES ARE LOCATED ON PLANS ONLY FOR THE CONVENIENCE OF THE CONTRACTOR. EXISTING UTILITY SERVICE LATERALS ARE NOT SHOWN ON THE PLANS. THE CONTRACTOR SHALL BEAR FULL RESPONSIBILITY FOR THE PROTECTION OF UTILITIES AND LATERALS AND THE OWNER BEARS NO RESPONSIBILITY FOR UTILITIES NOT SHOWN ON PLANS OR NOT IN THE LOCATION SHOWN ON THE PLANS. CONTRACTOR TO VERIFY THE EXACT LOCATION OF UTILITIES PRIOR TO CONSTRUCTION. ALL UTILITIES SHOWN ARE BASED ON SEARCH OF RECORDS & NOT VERIFIED BY POTHOLES.
- THE CONTRACTOR SHALL TAKE ALL PRECAUTIONARY MEASURES NECESSARY TO PROTECT EXISTING IMPROVEMENTS, WHICH ARE TO REMAIN IN PLACE, FROM DAMAGE, AND ALL SUCH IMPROVEMENTS, OR STRUCTURES DAMAGED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED OR RECONSTRUCTED SATISFACTORY TO THE OWNER AT THE EXPENSE OF THE CONTRACTOR.
- THE CONTRACTOR SHALL NOT BACKFILL A TRENCH WITHIN WHICH WATERLINES HAVE BEEN UNCOVERED UNTIL THE WATERLINES HAVE BEEN INSPECTED BY THE LAS VEGAS VALLEY WATER DISTRICT.
- SEWER STATIONS ARE BASED ON STATIONING ALONG CENTERLINE OF STREET AS INDICATED ON THE DRAWINGS. ACTUAL HORIZONTAL DISTANCES ALONG CENTERLINES OF SEWER ALIGNMENT ARE SHOWN ON THE PROFILES.
- CAUTION TO CONTRACTOR: HORIZONTAL AND/OR VERTICAL ANGLE POINTS AND HORIZONTAL CURVES ARE SHOWN IN PLAN AND PROFILE OF DRAWINGS. NO RCP PIPE JOINTS SHALL BE PULLED MORE THAN 3/4 INCH AND NO PVC PIPE JOINTS SHALL BE PULLED MORE THAN 1 INCH.
- THE CONTRACTOR SHALL BASE HIS BID UPON ROUGH GRADED ROADWAY ELEVATIONS APPROXIMATELY 1 FOOT BELOW FINISH GRADE ELEVATION, SHOWN IN PROFILE
- THE CONTRACTOR SHALL RETURN THE SITE, AT PROJECT COMPLETION, TO THE EXISTING ROUGH GRADE CONTOURS.
- ALL CONSTRUCTION AND MATERIAL FOR THIS PROJECT SHALL BE IN ACCORDANCE WITH THE MOST RECENT EDITION OF "THE UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, OFFSITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA", EXCEPT AS MODIFIED BY THE SPECIFICATIONS AND DRAWINGS.

LEGEND

- W — EXISTING WATER
- S — EXISTING SEWER
- SQ — EXISTING STORM DRAIN
- G — EXISTING GAS
- UGP — EXISTING UNDERGROUND POWER
- T — EXISTING UNDERGROUND TELEPHONE
- O — EXISTING VALVE
- MH — EXISTING MANHOLE
- P — EXISTING POWER POLE
- B — BENCHMARK
- CP — CONTROL POINT
- CL — CENTERLINE OR SURVEY LINE
- RW — RIGHT OF WAY LINE
- E — EASEMENT LINE
- PS — PROPOSED SEWER
- PSM — PROPOSED SEWER MANHOLE
- SD — FUTURE STORM DRAIN

ABBREVIATIONS

- & AND
- ∠ ANGLE
- AC ASPHALT CONCRETE
- BC BEGIN CURVE
- CL CENTERLINE
- CLV CITY OF LAS VEGAS
- CONC CONCRETE
- DIA DIAMETER
- E EAST
- ELEV ELEVATION
- EC END CURVE
- EXIST EXISTING
- FG FINISHED GRADE
- HORIZ HORIZONTAL
- IN IN
- ID INSIDE DIAMETER
- INV INVERT ELEVATION
- LT LEFT
- L LENGTH
- LF LINEAR FEET
- MH MANHOLE
- MAX MAXIMUM
- MIN MINIMUM
- N NORTH
- NO, # NUMBER
- PT POINT
- PRC POINT OF REVERSE CURVE
- PVC POLYVINYL CHLORIDE
- LBS POUNDS
- R RADIUS
- RCP REINFORCED CONCRETE PIPE
- RT RIGHT
- R/W RIGHT OF WAY
- SECT SECTION
- SHT SHEET
- S SOUTH
- SPECS SPECIFICATIONS
- SQ SQUARE
- SDR STANDARD DIMENSION RATIO
- STA STATION
- T TANGENT
- TC TOP OF CURB
- TMH TOP OF MANHOLE
- TYP TYPICAL
- USS UNIFORM STANDARD SPECIFICATIONS
- VERT VERTICAL
- W WEST

QUANTITIES

STANDARD	
24" PIPE (RCP OR PVC)	88 LF
21" PIPE (RCP OR PVC)	6734 LF
12" PIPE (PVC)	16 LF
10" PIPE (PVC)	1014 LF
8" PIPE (PVC)	41 LF
60" MANHOLE	11 EA
ALTERNATE "A" (NOT FOR CONSTRUCTION, FOR BIDDING PURPOSES ONLY.)	
12" PIPE (PVC)	2116 LF
10" PIPE (PVC)	4696 LF
48" MANHOLE	16 EA

BENCHMARK

CLV BENCHMARK ON TC AT END OF CURB ON WEST SIDE OF DURANGO DRIVE, 250' SOUTH OF WESTCLIFF DRIVE.
ELEV. 2610.16

BASIS OF BEARING

N 01°12'43"E IS BASED ON THE NEVADA STATE GRID SYSTEM (EAST ZONE) AS DETERMINED FROM TRIANGULATION POINTS "RED ROCK" TO "LONE MOUNTAIN."

Call before you Dig.
1-800-227-2600

APPROVALS

CITY OF LAS VEGAS		
<i>[Signature]</i>	DATE	11/21/87
DIRECTOR OF PUBLIC WORKS	DATE	11-12-87
<i>[Signature]</i>	DATE	11-13-87
CITY ENGINEER	DATE	11-12-87
<i>[Signature]</i>	DATE	11-12-87
CITY PLANNING ENGINEER	DATE	11-12-87
<i>[Signature]</i>	DATE	11-12-87
C.L.V. SANITARY ENGINEER	DATE	11-12-87
<i>[Signature]</i>	DATE	11-12-87
C.L.V. LAND DEVELOPMENT ENGINEER	DATE	11/12/87
<i>[Signature]</i>	DATE	
C.L.V. TRAFFIC ENGINEER	DATE	

AGENCY	REVIEWED BY:	DATE
NEVADA POWER COMPANY	<i>[Signature]</i>	3/9/87
SOUTHWEST GAS CORP.	<i>[Signature]</i>	3/6/87
L.V.V.W.D.	<i>[Signature]</i>	3/15/87
CENTRAL TELEPHONE CO.	<i>[Signature]</i>	3/18/87

HOWARD HUGHES PROPERTIES
 LAKE MEAD BLVD. SEWER - BUFFALO TO EL CAPITAN
 GENERAL NOTES, QUANTITIES, AND MISC.
 SHEET 3 OF 19 SHEETS