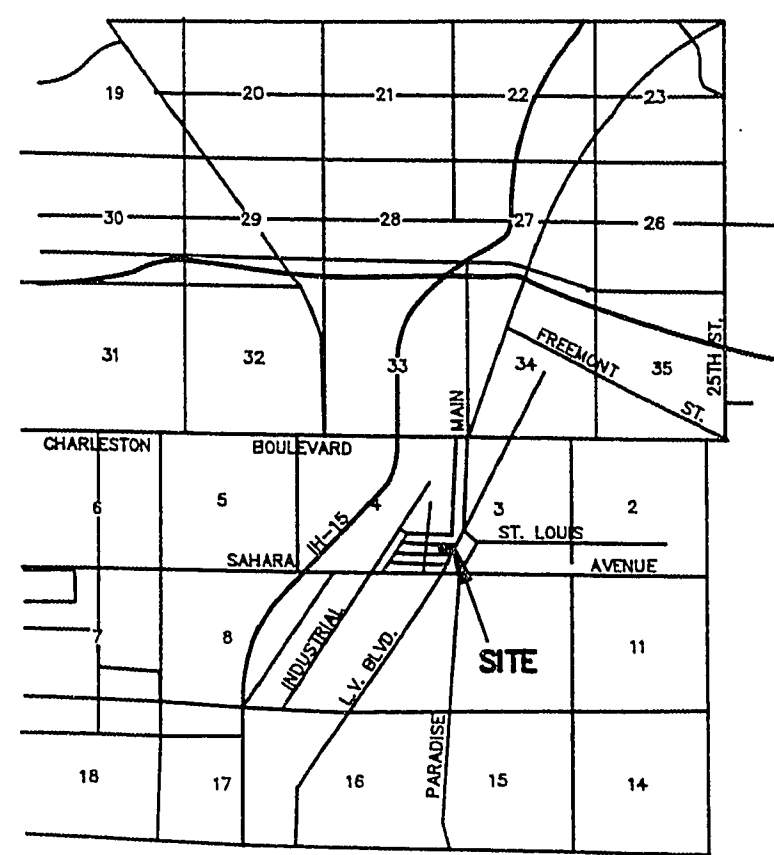


The location of underground utilities shown hereon has been determined from surface evidence of their existence or from information obtained from the utility companies. The Engineer accepts no liability for the existence or non-existence of utility lines. Contractors and others using this map must confirm the location of underground lines or structures with the utility companies prior to commencing any excavation.

1	ALL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH THE CITY OF LAS VEGAS	8.	A FLOT TEST MUST BE OBTAINED BY THE FIRE DEPARTMENT PRIOR TO OCCUPANCY
2	FIRE DEPARTMENT "HYDRANT SPECIFICATIONS". "HYDRANT INSTALLATION	9	FOR VERIFICATION OF REQUIRED ON-SITE WATER SUPPLY.
3	SPECIFICATIONS" AND ORDINANCE #3545.	10	ALL ON-SITE WATER MATERIALS MUST BE INSTALLED AND F.N. APPROVED
4	APPROVED HYDRANTS FOR THIS PROJECT ARE:	11	FIRE HYDRANT SPACING:
5	A. KENNEDY GUARDIAN	12	RESIDENTIAL - 400 FEET UNSPRINKLED, 600 FEET SPRINKLED
6	B. MUELLER A-242 CENTURION	13	COMMERCIAL, INCLUDING MULTI-FAMILY - 300 FEET UNSPRINKLED, 400 FEET
7	C. CLOW MODEL 636 MEDALLION	14	SPRINKLED.
8	ON ANY NEW HOME OR BUILDING INSTALLATION, ACCESSIBLE FIRE HYDRANTS SHALL	15	NO FIRE HYDRANT SHALL BE LOCATED WITHIN THE REQUIRED RADIUS OF A
9	BE LOCATED BEFORE COMMENCING CONSTRUCTION COMMENCES AND SAID FIRE	16	CUL-DE-SAC OR WITHIN 20 FEET OF THE PERIMETER OF THE RADIUS OF THE
10	HYDRANTS SHALL BE IN GOOD WORKING WITH AN ADEQUATE WATER SUPPLY.	17	CUL-DE-SAC.
11	CONTRACTORS SHALL PROVIDE A SIGN TO BE LOCATED AT THE END OF THE STREET	18	NO FIRE HYDRANT SHALL BE LOCATED WITHIN 6 FEET OF ANY CURB RETURN,
12	AND ADJACENT TO FIRE HYDRANTS AS REQUIRED IN ORDINANCE #3545 TO IDENTIFY FIRE	19	DRIVEWAY, POWER POLE, STREET LIGHT OR ANY OTHER OBSTRUCTION.
13	HYDRANT LOCATIONS.	20	ALL HYDRANTS SHALL BE LOCATED WITHIN 6 FEET OF A STREET MAIN BARE
14	THE CITY OF LAS VEGAS BUILDING DEPARTMENT AT 799-2071 FOR UNDERGROUND	21	OR SPRINKLING RADIUS FOR ANY FIRE APPARATUS ACCESS ROAD AND/OR FIRE LANE,
15	INSPECTION, PRESSURE AND FLUSH VERIFICATION OF ALL FIRE HYDRANTS AND	22	PUBLIC OR PRIVATE SHALL BE NOT LESS THAN 45 FEET OUTSIDE RADIUS AND
16	PAINTING OF THE CURBS AND HYDRANT AND ANY WORK NECESSARY FOR PROTECTION	23	22 FEET INSIDE RADIUS.
17	OF HYDRANTS FROM PHYSICAL DAMAGE PER ORDINANCE #3545 SHALL BE COMPLETED	24	ALL APPARATUS ROAD SHALL BE REQUIRED WHEN ANY WALL OF THE FIRST STOP
18	BY THE CITY OF LAS VEGAS BUILDING DEPARTMENT AT 799-2071 FOR UNDERGROUND	25	IS LOCATED MORE THAN 150 FEET FROM A FIRE DEPARTMENT VEHICLE ACCESS.
19	INSPECTION, PRESSURE AND FLUSH VERIFICATION OF ALL FIRE HYDRANTS AND	26	ALL EXCEPTIONS TO THIS SECTION SHALL BE APPROVED BY THE CITY OF LAS VEGAS
20	PAINTING OF THE CURBS AND HYDRANT AND ANY WORK NECESSARY FOR PROTECTION	27	ALL DEAD END FIRE APPARATUS ACCESS ROADS ANY/OR FIRE LANE SHALL BE PROVIDED WITH
21	OF HYDRANTS FROM PHYSICAL DAMAGE PER ORDINANCE #3545 SHALL BE COMPLETED	28	FLARE IN EXCESS OF 150 FEET IN LENGTH SHALL BE LOCATED WITHIN A
22	BY THE CITY OF LAS VEGAS BUILDING DEPARTMENT AT 799-2071 FOR UNDERGROUND	29	FLARE IN EXCESS OF 150 FEET IN LENGTH SHALL BE LOCATED WITHIN A



AN APPROVED N.D.O.T. OCCUPANCY PERMIT SHALL BE OBTAINED THROUGH THE DISTRICT PRIOR TO ANY CONSTRUCTION WITHIN THE N.D.O.T. RIGHT-OF-WAY.

EXISTING SERVICE LATERALS THAT ARE TO BE DISCONNECTED FROM EXISTING PIPELINES, SHALL HAVE THE CORROSION TOPS TURNED OFF AT THE PIPELINE. THE EXISTING SERVICE LATERAL THAT IS TO BE DISCONNECTED SHALL BE CUT 6" DOWNSTREAM FROM THE CORROSION STOP AND AGAIN CUT 6" DOWNSTREAM SO THAT A 6" PIECE OF THE EXISTING SERVICE LATERAL IS REMOVED. IF THE CORROSION STOP IS DAMAGED BEYOND REPAIR, THE PIPELINE SHALL BE CUT AT THE PIPELINE. THE PIPELINE SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE. IN MANNER APPROVED BY THE LAS VEGAS WATER DISTRICT. IF THE CORROSION STOP IS NOT WATER TIGHT, THE CONTRACTOR SHALL NOTIFY THE LAS VEGAS VALLEY WATER DISTRICT.

THE CONTRACTOR SHALL REMOVE THE EXISTING SERVICE METER BOX AND APPURTENANCES. FILL AND GRADE ANY AND ALL RESULTING VOIDS AND REPLACE OR RESTORE TO ORIGINAL CONDITIONS OR BETTER, ALL LANDSCAPING, IRRIGATION SYSTEMS, CONCRETE, CONCRETE SIDEWALKS, ASPHALT, OR ANY OTHER ITEMS DAMAGED OR REMOVED DURING THE REMOVAL OF THE EXISTING SERVICE METER BOX.

BUILDING AREA	5,715 S.F. (CASINO ONLY)
HEIGHT	1 STORY
TYPE OF CONSTRUCTION	TYPE II - 1HR
SPRINKLER SYSTEM	N/O
OCCUPANCY	CASINO
CALCULATED FIRE FLOW	1500 GPM @ 20 PS.I.

1. NO WORK SHALL BEGIN ON THE WATER PLANS UNTIL THEY HAVE BEEN RELEASED FOR CONSTRUCTION BY THE LVVUD. FOLLOWING APPROVAL OF THE PLANS, NOTICE SHALL BE GIVEN TO THE LVVUD CUSTOMER SERVICE DEPARTMENT (870-6194), 48 HOURS PRIOR TO ACTUAL CONSTRUCTION, AND 24 HOURS PRIOR TO AN INSPECTION.
2. CALL BEFORE YOU DIG 1-800-227-2600
3. ALL WORK SHALL CONFORM TO LVVUD LATEST STANDARD PLATES, DRAWINGS AND SPECIFICATIONS.
4. ALL WORK, EXCEPT AS MODIFIED HEREON OR BY NOTE 3, SHALL BE DONE IN ACCORDANCE WITH THE MOST CURRENT DRAFT OR ADDITION OF THE UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFFSITE IMPROVEMENTS, CLARK COUNTY AREA.
5. DISTRICT 1 SLOVED SIDEWALK TAPPED COLLARS SHALL BE REQUIRED ON ALL 3/4" AND 1" SERVICE LATERALS. SERVICE SADDLES WILL NOT BE PERMITTED ON 1-1/2" AND 2" SERVICE LATERALS. DOUBLE TAPPED COLLARS ARE NOT PERMITTED.
6. COPPER SERVICE LATERALS: ALL 3/4" TO 2" SERVICE LATERALS SHALL BE OF COPPER TUBING IN ACCORDANCE WITH THE DISTRICT'S SPECIFICATIONS AND STANDARD PLATES.

THE MAXIMUM ALLOWABLE JOINT DEFLECTION FOR ACP AND DUCTILE IRON PIPE SHALL BE AS FOLLOWS:

<u>Pipe Sizes</u>	<u>ACP</u>	<u>ductile iron</u>	<u>ductile iron</u>
		<u>slip joint</u>	<u>mechanical joint</u>
6 inch	2.5 degrees	2.5 degrees	3.5 degrees
8 - 12 inch	2.5 degrees	2.5 degrees	2.5 degrees
14 - 16 inch	2.0 degrees	1.5 degrees	1.5 degrees
18 - 24 inch	N/A	1.5 degrees	1.5 degrees

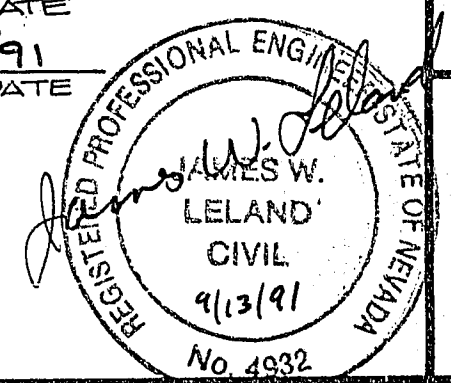
ON PVC PIPE, THE MAXIMUM OFFSET FOR A 20' LENGTH OF FACTORY BELLED PIPE SHALL BE 16 INCHES FOR 6" PIPE, 12 INCHES FOR 8" PIPE, AND 9 INCHES FOR 10" AND 12" PIPE. IF THESE OFFSETS CONFLICT WITH THE PIPE MANUFACTURERS RECOMMENDATION, THE MORE STRINGENT REQUIREMENT SHALL APPLY.

8. ALL WATER METER BOXES SHALL BE LOCATED OUTSIDE OF DRIVEWAY AREAS.
9. ALL VALVES SHALL BE LOCATED OUTSIDE OF DRIVEWAYS AND VALLEY GUTTERS.
10. DETECTOR TAP SHALL BE REQUIRED IN ACCORDANCE WITH STANDARD PLATE NO. 27 WHERE INDICATED, AND AS FOLLOWS:

- a) OVER ALL MAINS NOT INSTALLED 6 FEET FROM BACK OF CURB.
- b) OVER ALL SERVICE LATERALS NOT INSTALLED AT RIGHT ANGLES TO MAIN

11. ALL WATER MAINS SHALL BE PRESSURE TESTED AT 200 PSI FOR A CONTINUOUS TWO HOUR PERIOD, IN ACCORDANCE WITH DISTRICT STANDARDS.
12. ALL WATER MAINS SHALL BE DISINFECTED, AND FLUSHED, AND AN ACCEPTABLE HEALTH SAMPLE OBTAINED, PRIOR TO THE CONNECTION OF THE WATER MAIN(S) AND/OR LATERAL (S) TO THE DISTRICT'S SYSTEM.
13. CONTRACTOR TO OBTAIN ALL METERS 2" AND SMALLER FROM LVVWD CENTRAL STORES. TELEPHONE 258-3152 FORTY-EIGHT (48) HOURS PRIOR TO PICKUP.

Richard P. Brenner 7-31-91
CITY OF LAS VEGAS FIRE MARSHALL DATE
Laura B. Brenner 11/13/91
VVWD DATE



	UTILITY PLAN SECTION 4, TOWNSHIP 21 SOUTH, RANGE 61 EAST, M.D.B. 1 M. CITY OF LAS VEGAS AZTEC CASILLO		1210 HINSON STREET LAS VEGAS, NEVADA 89102 (702) 878-8771	BAUGHMAN & TURNER INC. LAND PLANNERS CIVIL ENGINEERS LAND SURVEYORS	DATE JULY 1991 DESIGN AS/NA DRAWN AS/NA CHECK AS/NA SCALE 1" = 20'	PREPARED FOR: GARY VAUSE	REVISIONS ADD 1" WATER SERVICE 7/17/91 REMOVE AC PITCH & SLOPE CALC COLLECT AT VALVE BOX AT LAS VEGAS BLVD/202	APPROVED 7/17/91