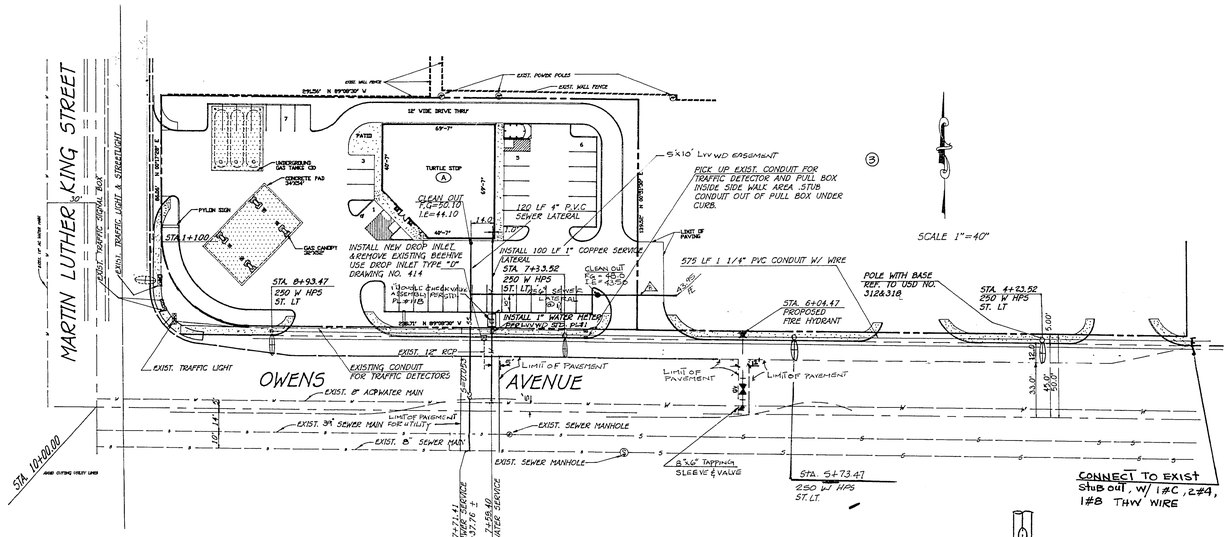
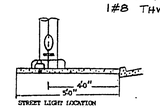


SCALE 1"=40"



CITY OF LAS VEGAS FIRE DEPT. NOTES

1. ALL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH THE CITY OF LAS VEGAS FIRE DEPARTMENT "HYDRANT SPECIFICATIONS", "HYDRANT INSTALLATION SPECIFICATIONS" AND ORDINANCE #3677.
2. AUTHORIZED HYDRANTS FOR THIS PROJECT ARE:

   A. KENNEDY GUARDIAN
   B. MUELLER A-423 CENTURIAN
   C. CLOW MODEL 2546 MEDALLION

3. ON ANY NEW HOME OR BUILDING INSTALLATION, ACCESSIBLE FIRE HYDRANTS SHALL BE INSTALLED BEFORE COMBUSTIBLE CONSTRUCTION COMMENCES AND SAID FIRE HYDRANTS SHALL BE IN GOOD WORKING ORDER WITH AN ADEQUATE WATER SUPPLY.
4. CONTRACTOR SHALL PLACE A BLUE REFLECTIVE MARKER AT CENTERLINE OF STREET ADJACENT TO FIRE HYDRANT AS REQUIRED IN ORDINANCE #3677 TO IDENTIFY FIRE HYDRANT LOCATIONS.
5. CALL THE LAS VEGAS BUILDING DEPARTMENT AT 229-2071 FOR UNDERGROUND INSPECTION, PRESSURE AND FLUSH VERIFICATION OF ALL FIRE HYDRANTS AND FIRE LINES BEFORE COVERING.
6. PAINTING OF THE CURBS AND HYDRANT AND ANY WORK NECESSARY FOR PROTECTION OF HYDRANTS FROM PHYSICAL DAMAGE PER ORDINANCE #3677 SHALL BE COMPLETED BEFORE APPROVAL BY THE CITY OF LAS VEGAS FIRE DEPARTMENT.
7. A PERMIT IS REQUIRED FROM THE FIRE DEPARTMENT FOR ON-SITE WATER LINE AND FIRE HYDRANT. THE PERMIT AND CONTRACTORS MATERIAL AND TEST CERTIFICATE FOR UNDERGROUND PIPING FORM SHALL BE OBTAINED FROM THE FIRE PROTECTION ENGINEER PRIOR TO ANY WORK BEGINNING.
8. A FLOW TEST MUST BE WITNESSED BY THE FIRE DEPARTMENT PRIOR TO OCCUPANCY FOR VERIFICATION OF REQUIRED ON-SITE WATER SUPPLY.
9. ALL ON-SITE FIRE MAIN MATERIALS MUST BE U.L. LISTED A.W.W.A. APPROVED.
10. FIRE HYDRANT SPACING.
    RESIDENTIAL - 500 FEET UNSPRINKLERED, 600 FEET SPRINKLERED
    COMMERCIAL INCLUDING MULTI-FAMILY - 300 FEET UNSPRINKLERED
    400 FEET SPRINKLERED.
11. NO FIRE HYDRANT SHALL BE LOCATED WITHIN THE REQUIRED RADIUS OF CUL-DE-SAC OR WITHIN 20 FEET OF THE PERIMETER OF THE RADIUS OF THE CUL-DE-SAC.
12. NO FIRE HYDRANT SHALL BE LOCATED WITHIN 6 FEET OF ANY CURB RETURN, DRIVEWAY, POWER POLE, STREET LIGHT OR ANY OTHER OBSTRUCTION.
13. NOT MORE THAN 2 HYDRANTS CAN BE OUT OF SERVICE DUE TO A SINGLE MAIN BREAK.
14. THE TURNING RADIUS FOR ANY FIRE APPARATUS ACCESS ROAD AND/OR FIRE LINE, PUBLIC OF PRIVATE SHALL BE NOT LESS THAN 45 FEET OUTSIDE RADIUS AND 22 FEET INSIDE RADIUS.
15. A FIRE APPARATUS ROAD SHALL BE REQUIRED WHEN ANY PORTION OF AN EXTERIOR WALL OF THE FIRST STORY IS LOCATED MORE THAN 150 FEET FROM A FIRE DEPARTMENT VEHICLE ACCESS. (SEE EXCEPTIONS UFC 88, SECTION 10.207).
16. ALL DEAD END FIRE HYDRANTS APPARATUS ACCESS ROADS AND/OR FIRE LANES PUBLIC OR PRIVATE IN EXCESS OF 150 FEET IN LENGTH SHALL BE PROVIDED WITH AN APPROVED TURNAROUND AREA. SEE ORDINANCE #3677.

LAS VEGAS FIRE DEPARTMENT

FIRE FLOW REQUIREMENT IS 1500 GAL PER MIN. AT 20 POUNDS PER SQUARE INCH RESIDUAL

BASED ON:

SQUARE FOOTAGE	4422 S.F.
LARGEST AREA BETWEEN AREA SEPARATION WALLS	S.F.
HEIGHT	17'-11"
TYPE OF CONSTRUCTION	TYPE V-N
EXPOSURES	STUCCO
SPRINKLER SYSTEM	NO
OCCUPANCY	B-2
ROOF CONSTRUCTION	BUILT UP ROOF & CONC. TILE

REVIEWED BY: _____

DATE: _____

DOUBLE CHECK VALVE ASSEMBLY

Approved Double Check Valve Assembly(s) shall be installed per the District's Standard Plate No. (1) 18 (2) No water shall be taken from a service requiring backflow prevention until the double check valve assembly has been successfully tested by the LVVWD.

Any block wall or other fence material shall be designed and constructed around the outside of the easement(s), so as to allow the District direct access to the vault(s) from the adjacent right-of-way.

17. ELECTRICALLY CONTROLLED ACCESS GATES SHALL BE PROVIDED WITH AN APPROVED EMERGENCY VEHICLE DETECTOR/RECEIVER SYSTEM. SAID SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH THE CITY OF LAS VEGAS GUIDELINES FOR AUTOMATIC EMERGENCY VEHICLE ACCESS GATES.

AVOID CUTTING UTILITY LINES
IT'S COSTLY

CALL
before you
DIG.

1-800-227-2600

CITY OF LAS VEGAS STREETLIGHT NOTES

1. ALL STREET LIGHT INSTALLATIONS SHALL CONFORM TO THE STANDARD DETAIL 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.
2. ALL HAND HOLES COVERS MUST BE INSTALLED, POLE CAPS POURED, AND PULL BOX LIDS BOLTED DOWN PRIOR TO ENERGIZING CIRCUIT. ALL WIRE MUST HAVE THW INSULATION.

NEVADA POWER COMPANY APPROVES THE POINT OF SERVICE TO THE STREET LIGHT SYSTEM. THIS SHALL NOT BE DEEMED TO CONSENT TO THE PLACEMENT OF THE LIGHT POLES WHICH MAY BE IN CONFLICT WITH NEVADA POWER COMPANY'S PRIOR RIGHTS AND OR FACILITIES.

APPROVED-SEE RIGHT

NEVADA POWER COMPANY DATE

REVISION B
INSTALL 125LF 6" SEWER LATERAL.

CLARK COUNTY SEWER NOTES

1. 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.
2. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PERFORM CONSTRUCTION AS PER PLAN. ANY ADDITIONS, DELETIONS, OR CHANGES SHALL FIRST MEET WITH THE APPROVAL OF THE CONTROLLING AGENCY.
3. CHISEL "S" OR "G" IN CURBS WHERE SEWER OR GAS LATERALS PASS UNDER CURB.
4. POLYVINYL (PVC) SEWER PIPE SHALL MEET ASTM D-3034 SDR 35 SPECIFICATIONS, AND INSTALLED WITH SAND BEDDING AND BACKFILL OF TYPE II GRAVEL.
5. ALL MANHOLES IN PAVED STREETS 80 FT. R/W AND LARGER, SHALL HAVE CONCRETE COLLARS.
6. TEE SADDLES SHALL BE USED TO CONNECT SEWER LATERALS TO EXISTING MAIN LINES UP TO 12 IN. DIA. SIZE. CONNECTIONS TO 15 IN. OR LARGER MAINS SHALL REQUIRE SPECIAL PROCEDURES.
7. A SEWER MAIN CROSSING OVER A WATER MAIN OR LESS THAN 18 IN. UNDER A WATER MAIN MUST BE REINFORCED CONCRETE ENCASED PIPE FOR A DISTANCE OF NOT LESS THAN TEN FEET (10') ON EACH SIDE OF THE CONTERLINE OF THE WATER MAIN.
8. ALL CONTRACTORS INSTALLING SEWER MAINS THAT WILL BE UNDER THE JURISDICTION OF THE CONTROLLING AGENCY MUST BE CLASS "A" CONTRACTORS.

LAS VEGAS VALLEY WATER DISTRICT NOTES

1. NO WORK SHALL BEGIN ON WATER PLANS UNTIL THEY HAVE BEEN RELEASED FOR CONSTRUCTION BY LVWCS. FOLLOWING APPROVAL OF THE PLANS, NOTICE MUST BE GIVEN TO THE LVWD CUSTOMER SERVICE DEPARTMENT (870-4194) 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 LVWD 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 UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENT, CLARK COUNTY AREA.
5. DISTRICT APPROVED SERVICE SADDLES OR TAPPED COLLARS WILL BE REQUIRED ON ALL 3/4" AND 1" SERVICE LATERALS. SERVICE SADDLES ONLY SHALL 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 SPECIFICATIONS AND STANDARD PLATES.
7. THE MAXIMUM ALLOWABLE JOINT DEFLECTION FOR ACP AND DUCTILE IRON PIPE SHALL BE AS FOLLOWS:

PIPE SIZES	ACP	DUCTILE IRON SLIP JOINT	DUCTILE IRON MECHANICAL JOINT
6 INCH	2.5 DEG.	2.5 DEG.	3.5 DEG.
8 - 12 INCH	2.5 DEG.	2.5 DEG.	2.5 DEG.
14 - 16 INCH	2 DEG.	1.5 DEG.	1.5 DEG.
18 - 24 INCH	N/A	1.5 DEG.	1.5 DEG.

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

    A: OVER ALL MAINS NOT INSTALLED AT 6 FEET FROM BACK OF CURB.
    B: OVER ALL SERVICE LATERAL NOT INSTALLED AT RIGHT ANGLES TO MAINS.

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

REVISION A

RELOCATION OF PROPOSED STREET LIGHTS PER CITY TRAFFIC ENGINEER

APPROVED BY:

8/24/94

PROJECT NAME: Turtle Stop (MLK & OWENS)

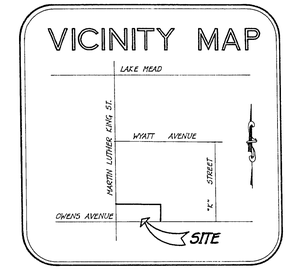
This project water plan complies with the Las Vegas Valley Water District's technical requirements. However, this water plan is NOT APPROVED FOR CONSTRUCTION at this time and this signature does not provide or imply a water commitment.

LVVWD 7/22/94 Date

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 40 ft.



SANITARY SEWER FLOWS:

AVERAGE SEWER FLOW _____ G.P.M.
PEAK SEWER FLOW _____ G.P.M.

SANITARY SEWER QUANTITIES PRIVATE

4" PVC SEWER LATERAL	120 L.F.
CLEANOUT	1 EA.

WATER MAIN QUANTITIES PRIVATE

1" COPPER SERVICE LATERAL	+100.0 L.F
1" WATER METER (FROM LVWWD)	1 EA.
STD. FIRE HYDRANT W/6" GVW	1 EA.
LAT. 6" GATE VALVE	
1" DOUBLE CHECK VALVE ASSEMBLY	1 EA.

NOTES:
ALL UTILITIES SHOWN ARE BELIEVED TO BE ACCURATELY LOCATED. BUT THE ACCURACY AND COMPLETENESS OF UTILITY INFORMATION IS NOT GUARANTEED. FOR EXACT LOCATION OF ANY UTILITY SEE THE APPROPRIATE UTILITY OR GOVERNMENTAL AGENCY.

BENCHMARK

C.L.V # 06128AIP
ELEVATION 2049.02 SOUTHEAST CORNER OF HIGHLAND & OWENS

APPROVALS:

LAS VEGAS VALLEY WATER DISTRICT	7/29/94 DATE
SOUTHWEST GAS COMPANY	4/21/94 DATE
NEVADA POWER COMPANY	5/19/94 DATE
CENTEL TELEPHONE COMPANY	6/6/94 DATE
FIRE MARSHAL, CITY OF LAS VEGAS	5/4/94 DATE
LC CORPORATION EHOSRO POURGHARAMANIAN, P.E.C.E.	5/16/94 DATE NO. 7741

REVISIONS
JULY 14
OCT 14 '94

Project no. 94-TTI
Project mgr. N.S.
Location:
Designed by N.S.
Drawn by N.S.
Date: 7-2-94

UTILITY PLAN
THE TURTLE STOP(MLK & OWENS)
CITY OF LAS VEGAS, NV

LC Corporation
Architecture Planning
Engineering Surveying
5760 S. JONES BLVD. LAS VEGAS, NV. 89118 (702) 362-8074
4176 11th street w. ste. "A" Palmdale, California 93551 (805) 944-7161
4404 Stockdale Hwy. ste 118 Bakersfield, California 93304 (805) 322-4882

Project No. 94 - TTI

3 of 4

107 - V2245
16-3-199