

ABANDONMENT OF EXISTING SERVICE(S) 2" AND SMALLER

The Contractor shall notify the Inspection Division at the LVVWD (phone 702-258-3227) 48 hours prior to the requested removal time to allow the District to take the final meter reading and remove the meter. The Contractor may then begin removal procedures for the affected service as follows.

Existing service laterals that are to be abandoned from existing water main shall have the corporation stop turned off at the main, the lateral cut 6" downstream from the corporation stop and again cut 6" downstream from the first cut so that a 6" piece of the existing service lateral is removed. If the corporation stop is damaged beyond repair or pulled from the existing water main, the main shall be repaired at the Contractor's expense, in a manner approved by the LVVWD. If the corporation stop is not water tight, the Contractor shall notify LVVWD Customer Service (phone 870-4194) for further direction.

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.

LAS VEGAS VALLEY WATER DISTRICT EASEMENT NOTES

1. No work shall begin on the water main until they have been released for construction by the LVVWD. Following approval of the plan, the contractor shall be given the LVVWD Customer Service Department (phone 870-4194) 48 hours prior to removal construction, and 24 hours prior to an inspection.

2. All work shall conform to LVVWD latest standard plans, drawings and specifications.

3. All work, except as modified herein or by Note 1, shall be done in accordance with the most current edition of the Uniform Standard Specifications for Public Works Construction Officially Adopted, Clark County Area.

4. Material approved service add-on or tapped collars shall be required on all 3/4" and 1" service laterals. Service laterals only shall be permitted on 1/2" and 3/4" service laterals. Double tapped collars are not permitted.

5. COOPER SERVICE LATERALS: All 3/4" to 2" service laterals shall be of copper tubing in accordance with the District's specifications and standard plans.

6. The maximum allowable joint deflection for MCP and Ductile Iron pipe shall be as follows:

Pipe Size	MCP	Ductile Iron
6" - 12"	2 1/2" deflection	2 1/2" deflection
14" - 18"	2 1/2" deflection	2 1/2" deflection
20" - 24"	2 1/2" deflection	2 1/2" deflection

On PVC pipe, the maximum offset for a 30' length of factory built pipe shall be 1/4" for 6" pipe, 1/2" for 8" pipe, 3/4" for 10" pipe, 1" for 12" pipe, 1 1/4" for 14" pipe, 1 1/2" for 16" pipe, 1 3/4" for 18" pipe, 2" for 20" pipe, 2 1/4" for 22" pipe, 2 1/2" for 24" pipe.

7. If there is a conflict with the pipe manufacturer's recommendation, the more restrictive recommendation shall apply.

8. All water meter boxes shall be located outside of driveway apron.

9. All valves shall be located outside of driveway and valley waters.

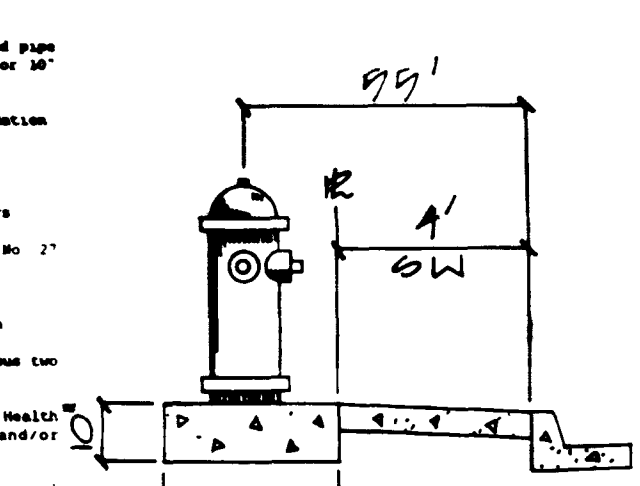
10. Detector caps shall be required in accordance with Standard Plan No. 27, unless indicated, and as follows:

a) Meter all mains not installed a feet from back of curb.
b) Meter all service laterals not installed a feet from back of curb.

11. All water mains shall be pressure tested at 200 psi for a continuous two hour period in accordance with District Standard.

12. All water mains shall be installed, tested and accepted in accordance with the District's specifications and standard plans.

13. Contractor to obtain all meters 2" and smaller from LVVWD Central Meter Shop. Telephone 258-3152 forty-eight (48) hours prior to pickup.



FIRE HYDRANT DETAIL

GENERAL NOTES

- ALL SANITARY SEWER INSTALLATION 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.
- CRUISE "S" OR "O" IN CURBS WHERE SEWER OR GAS LATERALS PASS UNDER THE CURB. REPRODUCIBLE "AS-BUILT" PLAN SHOWING EXACT LOCATION OF SEWER LATERALS WILL BE REQUIRED PRIOR TO ACCEPTANCE FOR MAINTENANCE. POLYETHYLENE GLASS (PE) SEWER PIPE SHALL MEET ASTM D-3034 SDR-35 SPECIFICATIONS, AND INSTALLED WITH SAND BEDDING AND BACKFILL OR 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 PIPE FOR A DISTANCE NOT LESS THAN TEN FEET (10') TO EACH SIDE OF THE CENTERLINE OF THE WATER MAIN.

CITY OF LAS VEGAS FIRE DEPARTMENT NOTES

- ALL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH THE CITY OF LAS VEGAS FIRE DEPARTMENT "HYDRANT" SPECIFICATIONS. "HYDRANT" INSTALLATION SPECIFICATIONS AND ORDINANCE #3545.
- AUTHORIZED HYDRANTS FOR THIS PROJECT ARE:
A. KENNEDY GUARDIAN
B. HUELLER A-433 CENTURIAN
C. CLOW MODEL 2546 MEDALLION
- 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.
- CONTRACTOR SHALL PLACE A BLUE REFLECTIVE MARKER AT CENTERLINE OF STREET ADJACENT TO FIRE HYDRANT AS REQUIRED IN ORDINANCE #3545 TO IDENTIFY FIRE HYDRANT LOCATIONS.
- CALL THE LAS VEGAS BUILDING DEPARTMENT AT 799-2071 FOR UNDERGROUND INSPECTION, PRESSURE AND FLUSH VERIFICATION OF ALL FIRE HYDRANTS AND FIRE LINES BEFORE COVERING.
- PAINTING OF THE CURBS AND HYDRANT AND ANY WORK NECESSARY FOR PROTECTION OF HYDRANTS FROM PHYSICAL DAMAGE, PER ORDINANCE #3545, SHALL BE COMPLETED BEFORE APPROVAL BY THE CITY OF LAS VEGAS FIRE DEPARTMENT.
- A PERMIT IS REQUIRED FROM THE FIRE DEPARTMENT FOR ON-SITE WATER LINE AND FIRE HYDRANT. THE PERMIT AND CONTRACTOR'S MATERIAL AND TEST CERTIFICATE FOR UNDERGROUND PIPING FORM SHALL BE OBTAINED FROM THE FIRE PROTECTION ENGINEER PRIOR TO ANY WORK BEGINNING.
- A FLOW TEST MUST BE WITNESSED BY THE FIRE DEPARTMENT PRIOR TO OCCUPANCY FOR VERIFICATION OF REQUIRED ON-SITE WATER SUPPLY.
- ALL ON-SITE FIRE MAIN MATERIALS MUST BE U.L. LISTED AND F.M. APPROVED.
- FIRE HYDRANT SPACING:
RESIDENTIAL - 500 FEET UNSPRINKLERED, 600 FEET SPRINKLERED
COMMERCIAL, INCLUDING MULTI-FAMILY - 300 FEET UNSPRINKLERED, 400 FEET SPRINKLERED
- NO FIRE HYDRANT SHALL BE LOCATED WITHIN THE REQUIRED RADIUS OF A CUL-DE-SAC OR WITHIN 20 FEET OF THE PERIMETER OF THE RADIUS OF THE CUL-DE-SAC.
- NO FIRE HYDRANT SHALL BE LOCATED WITHIN 6 FEET OF ANY CURB RETURN, DRIVEWAY, POWER POLE, STREET LIGHT OR ANY OTHER OBSTRUCTION.
- NOT MORE THAN 2 HYDRANTS CAN BE OUT OF SERVICE DUE TO A SINGLE MAIN BREAK.
- THE TURNING RADIUS FOR ANY FIRE APPARATUS ACCESS ROAD AND/OR FIRE LANE, PUBLIC OR PRIVATE, SHALL BE NOT LESS THAN 45 FEET OUTSIDE RADIUS AND 22 FEET INSIDE RADIUS.
- 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 IN UFG 8A, SECTION 10.207).
- ALL DEAD END FIRE APPARATUS ACCESS ROADS AND/OR FIRE LANES, PUBLIC OR PRIVATE, IN EXCESS OF 150 FEET IN LENGTH SHALL BE PROVIDED WITH AN APPROVED TURN AROUND AREA. SEE ORDINANCE #3545.

BENCHMARK

BM - U.S.G.S. Brass Cap
and Conc. stamped #169 Reset 1963
Elev. = 2357.04
Approx. 400' W. Ann Road & 4.0' East of
the East S.P. WB Lane of Oran Grogan Expressway

SEWER LATERAL "AS-BUILT" CERTIFICATION

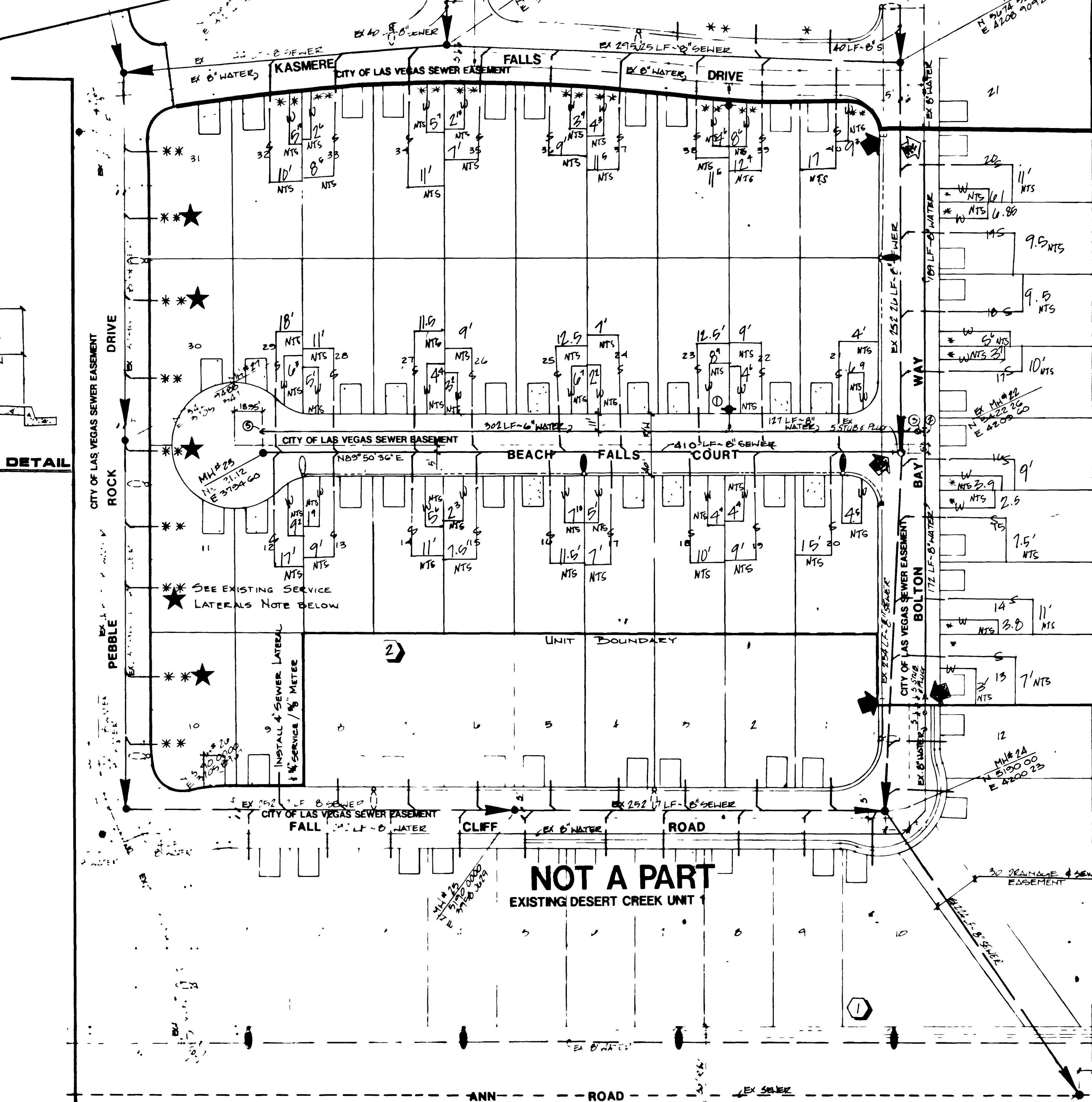
STEPHEN P. GURLIKES, P.L.S.
NEVADA CERT. NO. 9105
1/16/99

SEWER & WATER LATERALS TO BE ABANDONED (SEE ABANDONMENT NOTE)

EXISTING SERVICE LATERALS

LOT 10, 11, 30 & 31, BLOCK 2
If any of the existing service laterals are incorrectly located or are not used for any reason, the developer shall abandon the laterals at the connection to the active main in accordance with the District's standards and at the developer's expense.

NOT A PART PROPOSED DESERT CREEK UNIT 2



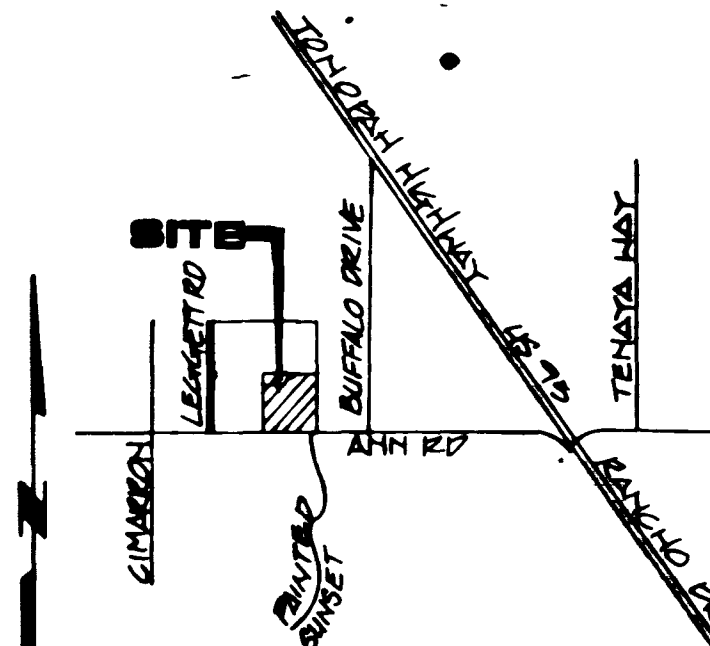
NOT A PART EXISTING DESERT CREEK UNIT 1

△ SERVICE LATERALS FOR LOTS 9 & 32 BLOCK 2 WILL BE TAPPED ON EXISTING MAIN BY OWNER'S CONTRACTOR UNDER DIRECTION OF THE LAS VEGAS VALLEY WATER DISTRICT

PROJECT NAME Desert Creek

Phase II Unit 3
This project water plan complies with the Las Vegas Valley Water District's local requirements. However, this water plan is NOT APPROVED FOR CONSTRUCTION at this time.

1/27/92
1/27/92



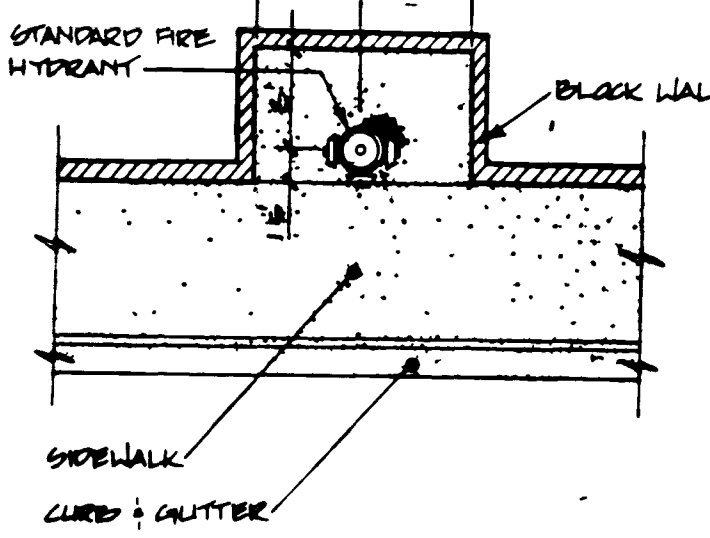
VICINITY MAP

NOTE: STREETLIGHTING ON "PRIVATE" STREETS REQUIRE PERMITS AND INSPECTIONS BY THE DEPARTMENT OF BUILDING & SAFETY.

LEGEND & QUANTITY ESTIMATE

STREETLIGHT	
100 WATT LUMINAIRE	1 EA
1/2" CONDUIT	750 LF
3/8" PULLER	1 EA
WATER	
1 FIRE HYDRANT ASS'Y (INCLUDES PIPE, TEE, VALVE, RISER, THROTTLE BLOCK)	1 EA
8" TEE	1 EA
8" GATE VALVE	1 EA
2" BLOW-OFF ASS'Y	1 EA
3/4" SERVICE	2 EA
3/8" METER BY LVVWD	2 EA
8" WATER MAIN	108 LF
6" WATER MAIN	302 LF
SEWER	
STANDARD MANHOLE	1 EA
8" SEWER MAIN	410 LF
4" SEWER LATERALS	520 LF
NTS	19 EA

* SEWER LAT. INSTALLED W/UNIT 2
** SEWER LAT. & WATER MET INSTALLED W/UNIT 1 & 2



TYPICAL FIRE HYDRANT WALL CLEARANCE DETAIL LAS VEGAS FIRE DEPARTMENT

Fire Flow Requirement is 1500 gallons per minute at 20 pounds per square inch residual.

Based on:
Square footage 1979 S.F.

Largest area between area separation walls

Height 2 STORY - 24'

Type of Construction 3

Exposures NONE

Sprinkler System NO

Occupancy SINGLE FAMILY

Roof Construction CERAMIC TILE

Reviewed By: David B. Berman 1/16/93

Date: 1/16/93

PROVIDE FIRE LANE IDENTIFICATION PER CITY ORD. 3677

APPROVALS

1-30-92
LAS VEGAS FIRE MARSHALL DATE

1-31-92
LAS VEGAS VALLEY WATER DISTRICT DATE

DESERT CREEK ASSOCIATES
LAS VEGAS, NEVADA

vtm
newada

CONSULTING ENGINEERS • LAND SURVEYORS
2727 SOUTH RAINBOW BOULEVARD
LAS VEGAS, NEVADA 89102-5148 PHONE (702) 873-7550 FAX (702) 362-2597

UTILITY ASBUILT

DESERT CREEK
PHASE II UNIT 3

TITLE PROJECT

1/27/92

NO NO A000

BY KPN, LWR

DATE 11/92

SCALE 1"=40'

SHEET 3 OF 4 SHEETS

As Built 3071 - 4074 II-3

