142299

CITY OF LAS VEGAS 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 plans. 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 the curb. (NOTE: A REPRODUCABLE "AS-BUILT" DRAWING SHOWING EXACT LATERAL LOCATIONS WILL BE REQUIRED PRIOR TO ACCEPTANCE.)

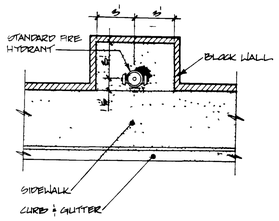
4. Polyvinyl (PVC) sewer pipe shall meet ASTM D-3034 SDR 35 specifications, installed with sand bedding and backfill of Type II gravel.

5. All manholes in paved streets 80' 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" dia. size. Connections to 15" or larger mains shall require special procedures.

7. 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.

8. All Contractors installing sewer mains that will be under the jurisdiction of the controlling Agency must be Class "A" Contractors.



TYPICAL FIRE HYDRANT WALL CLEARANCE DETAIL

LAS VEGAS VALLEY WATER DISTRICT STANDARD NOTES

1 No work shall begin on the water plans until they have been released for construction by the LVWD. Following approval of the plans, notice shall 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 of addition of the Uniform Standard Specifications for Public Works Construction Offsite Improvements, Clark County Area

5 District approved service saddles or tapped collars shall 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's 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 push joint	Ductile iron mechanical joint
4 inch	2 degrees	4 degrees	5 degrees
6 - 12 inch	2	5	5
14 - 16 inch	-	3	4
18 - 24 inch	N/A	-	4

For PVC pipe the maximum offset from 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 all driveway areas

9 All valves shall be located outside of driveways and valley gutters

10 Detector tape shall be required in accordance with standard Plate No 27 where indicated and as follows

over all mains not installed 9 feet from back of curb
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, flushed and an acceptable Health sample obtained prior to the connection of the water main(s) and/or laterals(s) to the District's system

13 Contractor to coordinate with all meters 2" and smaller from LVWD Central Stores Telephone 258-3... Forty-eight (48) hours prior to pickup

STREET LIGHT NOTE

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 of off-site improvements, Clark County area, latest edition, unless otherwise noted.

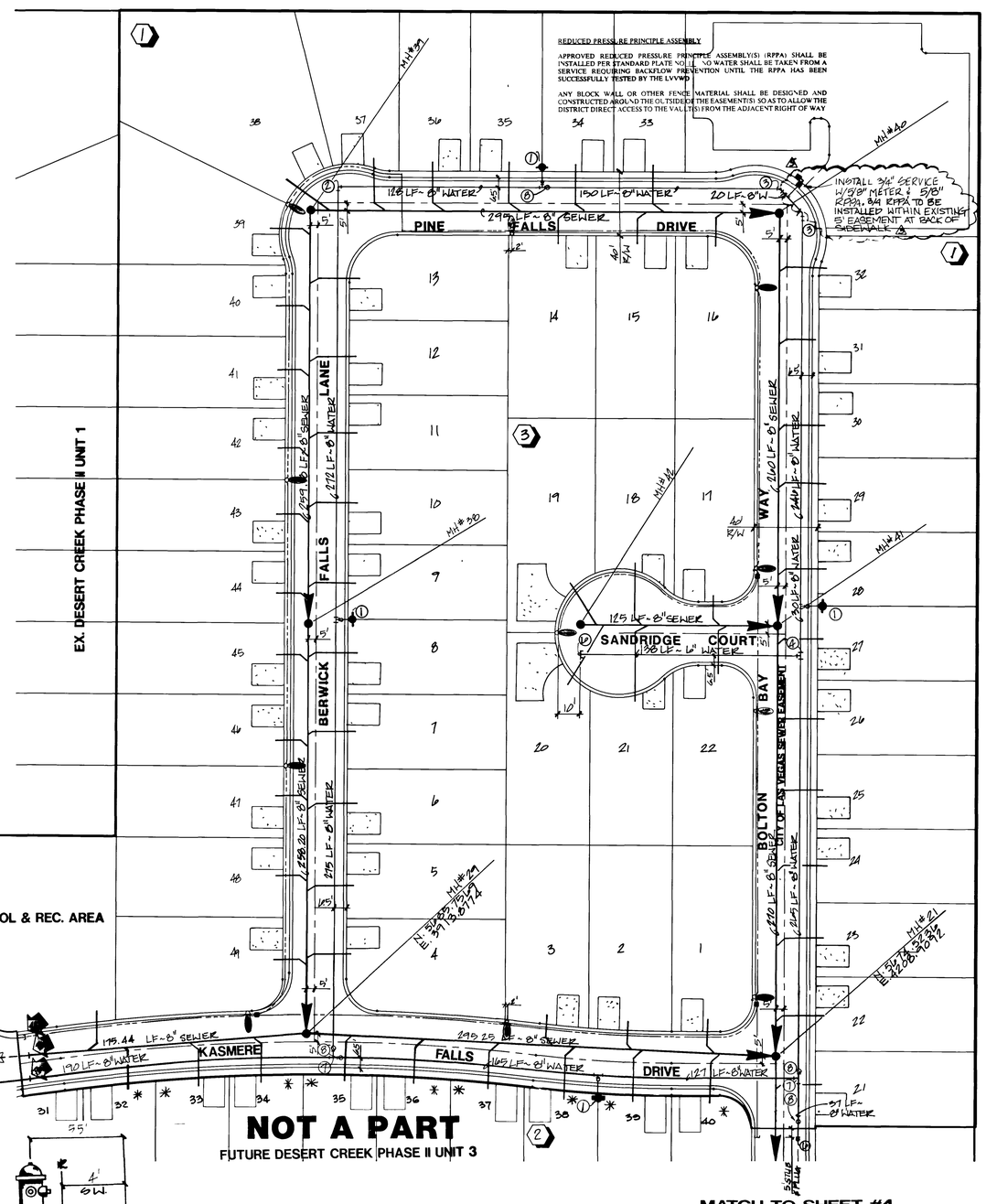
SPECIAL NOTE

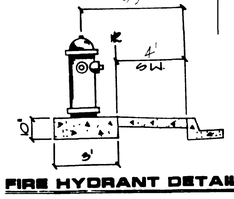
The meter (s) and vault (s) with non-traffic bearing cover (s), must be installed in accordance with the District's standard plate (s) 21D and with standard vault drawing C-475.

Any future block wall or fence must be designed around the easement (s), so as to allow the District direct access to the vault (s) from the adjacent right-of-way.

BENCHMARK

BM = U.S.G.S. Brass Cap
and Conc. stamped 5169 Reset 1963
Elev. = 2357.04
Approx. 400' No. Ann Road & 4.0' East of
the East E.P. NB Lane of Oran Gragson Expressway





FIRE HYDRANT DETAIL

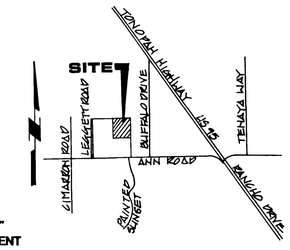
Installation of service laterals (3/4" to 2") only for lots 18 THRU 25, BLK. 2 shall include:

- District approved service saddles or tapping collars,
- corporation stop,
- copper service lateral,
- angle meter stop & meter box

PROJECT NAME Desert Creek Phase II Unit 2
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.

LVWD 1/29/92 Date

NOTE: STREETLIGHTING ON "PRIVATE STREETS" REQUIRE A PERMIT FROM THE DEPARTMENT OF BUILDING & SAFETY.



VICINITY MAP

LEGEND & QUANTITY ESTIMATE

WATER:

① FIRE HYDRANT ASS'Y (TO INCLUDE PIPE, VALVE, TEE & RISER)	4	EA.
② 8" 90° BEND	1	EA.
③ 8" 45° BEND	2	EA.
④ 8" x 6" x 8" TEE	1	EA.
⑤ 6" GATE VALVE		EA.
⑥ 2" BLOW-OFF ASS'Y	2	EA.
⑦ 8" TEE	2	EA.
⑧ 8" GATE VALVE	5	EA.
3/4" SERVICE	10	EA.
5/8" METER FROM LVVWD	10	EA.
8" WATER MAIN	1905	LF.
6" WATER MAIN	130	LF.

SEWER:

● STANDARD MANHOLE	8	EA
8" SEWER MAIN	1354	LF.
4" SEWER LATERALS	2019	LF.
WYES * INCLUDE 17 FUTURE	* 19	EA.

STREETLIGHT:

100 WATT LUMINAIRE	11	EA
1 1/4" CONDUIT	1080	LF.
# 3 1/2 PULL BOX	3	EA

CITY OF LAS VEGAS FIRE DEPARTMENT 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 #3545.
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 #3545 TO IDENTIFY FIRE HYDRANT LOCATIONS.
5. 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.
6. 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.
7. 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.
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 AND F.M. 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 A CUL-DE-SAC OR WITHIN 20 FEET OF THE PERIMETER 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 LANE, PUBLIC OR 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 IN UFC 88, SECTION 10.207).
16. 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.

APPROVALS

CITY LAS VEGAS FIRE MARSHALL — DATE 1-30-92

LAS VEGAS VALLEY WATER DISTRICT — DATE 1-31-92

LAS VEGAS FIRE DEPARTMENT

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

Based on:

Square footage 1973 SF.

Largest area between area separation walls 10'

Height 2 STORY - 20'

Type of Construction V

Exposures NONE

Sprinkler System NO

Occupancy SINGLE FAMILY

Roof Construction CERAMIC TILE

Reviewed By David Bowman

Date 1/6/93

PROVIDE FIRE LANE IDENTIFICATION PER CITY ORD. 3677

REV	DATE	BY	REVISION
1	4-27-93	HMB	KEY METER LOCATION
2	3-16-93	HMB	CHANGED STREET LIGHT LOCATIONS, PER KFN
3	3/15/93	KENT	ADD 3/4" SERVICE W/ 5/8" METER TO RV PARKING
4	4-6-92	JS	ADD STREETLIGHTS TO INTERIOR STREETS PER DEVELOPER

APPD

DESERT CREEK ASSOCIATES
LAS VEGAS, NEVADA

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

TITLE: MASTER UTILITY PLAN

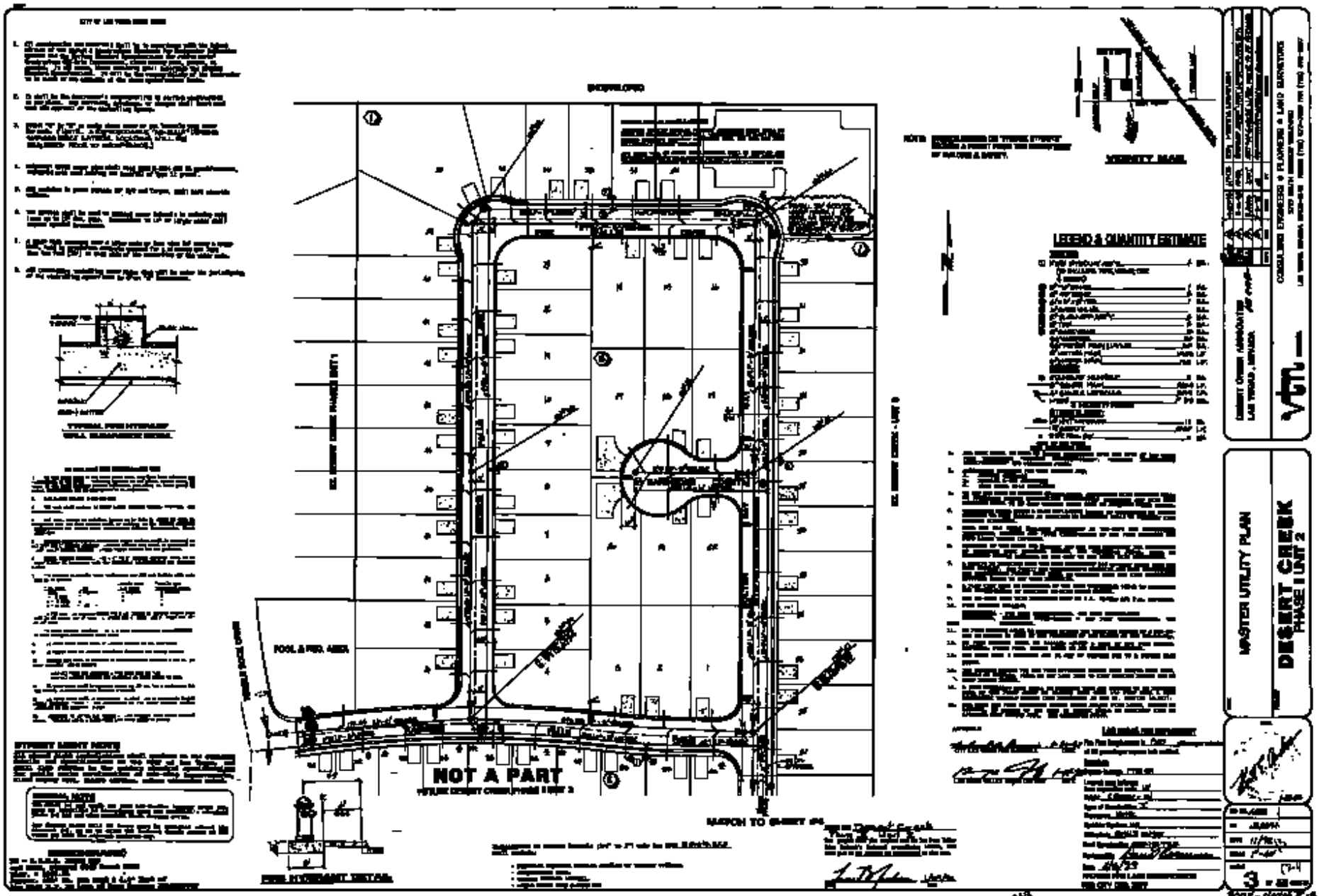
PROJECT: DESERT CREEK PHASE II UNIT 2

SEAL — 1-29-92

WO NO.	A008
BY	JS/KFN
DATE	11/92
SCALE	1" = 40'
SHEET	3 OF 8 SHEETS

64168

3074-4074-II-2


LEGEND & QUANTITY ESTIMATE
VICINITY MAP
POOL & REC. AREA
NOT A PART
MATCH TO SHEET #4
FIRE HYDRANT DETAIL
MASTER UTILITY PLAN
DESERT CREEK
PHASE I UNIT 2
CONSULTING ENGINEERS & PLANNERS & LAND SURVEYORS
3