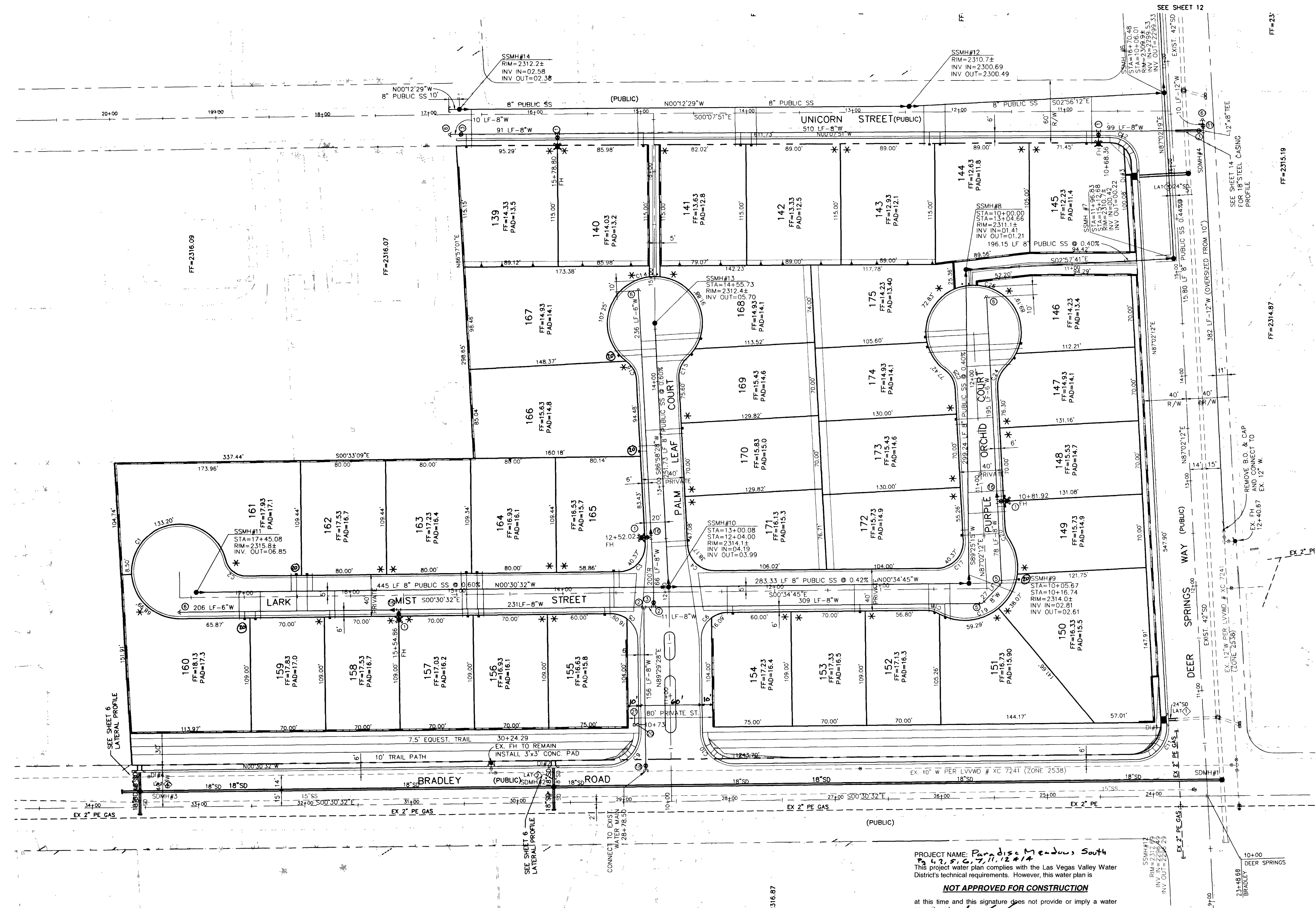




**NOTICE TO CONTRACTOR !**

EXISTING UTILITY LOCATIONS SHOWN HEREON ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT VERTICAL AND HORIZONTAL LOCATION OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO COMMENCING CONSTRUCTION. NO REPRESENTATION IS MADE THAT ALL EXISTING UTILITIES ARE SHOWN HEREON. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR UTILITIES NOT SHOWN OR UTILITIES NOT SHOWN IN THEIR PROPER LOCATION.

**AVOID CUTTING UNDERGROUND UTILITIES. IT'S COSTLY.**

**CALL before you Dig**

1-800-227-2600

UNDERGROUND SERVICE (USA)

**AVOID HITTING OVERHEAD POWER LINES. IT'S COSTLY.**

**CALL BEFORE YOU DO OVERHEAD**

CALL 1-702-593-6111

**TYPICAL SERVICE LOCATION**

UNLESS OTHERWISE SHOWN

**GRAPHIC SCALE**

( IN FEET )

1 inch = 50 ft.

**SEWER MANHOLE TABLE**

| MH NO. | RIM ELEV. | INV. IN. | INV. OUT. | STATION  | NORTHING  | EASTING   |
|--------|-----------|----------|-----------|----------|-----------|-----------|
| 1-16   | 2300.48   | 2283.18  | 2282.98   | 35+67.97 | 5356.6782 | 9662.5293 |
| 2A     | 2302.9    | 2292.01  | 2291.81   | 32+86.41 | 4345.6348 | 9381.1460 |
| 2      | 2304.0    | 2292.89  | 2292.69   | 31+18.01 | 4339.0307 | 9212.8755 |
| 3      | 2305.9    | 2294.89  | 2294.69   | 26+68.01 | 4315.9773 | 8763.4665 |
| 4      | 2307.3    | 2296.52  | 2296.32   | 23+11.10 | 4297.6930 | 8407.0296 |
| 5      | 2308.8    | 2298.02  | 2297.82   | 19+86.10 | 4281.0432 | 8082.4520 |
| 6      | 2309.9    | 2299.53  | 2299.33   | 16+70.48 | 4264.8744 | 7767.2522 |
| 7      | 2310.7    | 2300.42  | 2300.22   | 15+12.68 | 4256.7216 | 7609.6596 |
| 8      | 2311.1    | 2301.41  | 2301.21   | 10+00    | 4452.6057 | 7599.5192 |
| 9      | 2314.0    | 2302.81  | 2302.61   | 10+05.67 | 4449.5809 | 7300.2914 |
| 10     | 2314.1    | 2314.19  | 2303.99   | 13+00.08 | 4732.9002 | 7297.4274 |
| 11     | 2315.8    | N/A      | 2306.85   | 17+45.08 | 5177.8781 | 7293.4762 |
| 12     | 2310.7    | 2300.69  | 2300.49   | 12+46.63 | 4505.4707 | 7754.9103 |
| 13     | 2312.4    | N/A      | 2305.70   | 14+55.73 | 4746.1866 | 7548.8027 |
| 14     | 2312.2    | 2302.58  | 2302.38   | 16+70.87 | 4929.7015 | 7753.3701 |

**SEWER CONTRIBUTION**

SINGLE FAMILY: ERU = 1.0 P.F. CURVE G

AVG. 37 UNITS X 250 FPD X 1 ERU = 9,250 GPD

9,250 GPD = .009 MGD

PEAK FACTOR=3.2 FROM TABLE C

PEAK FLOW CONTRIBUTION: .009 X 3.2 = .0288 MGD

**APPROVALS**

N/A

C.L.V. SEWER

DATE

SEE SHEET 1

C.L.V. FIRE DEPARTMENT

DATE

L.V.V.W.D.

DATE

**NOTE**

ALL PRIVATE STREETS ARE P.U.E.'S, CLV SEWER EASEMENTS & PUBLIC DRAINAGE EASEMENTS TO BE PRIVATELY MAINTAINED.

**SEE SHEET 2 FOR GENERAL UTILITY NOTES**

FIRE FLOW DATA

FIRE FLOW REQUIREMENT IS 1500 GALLONS PER MINUTE AT 20 PSI RESIDUAL PRESSURE.

BASED ON:  
SQUARE FOOTAGE: 3600 SF  
LARGEST AREA BETWEEN 4-HOUR AREA SEPERATION WALLS: N/A  
BUILDING HEIGHT: 28 FT  
NUMBER OF STORIES: 2 STORIES  
TYPE OF CONSTRUCTION: V-N  
OCCUPANCY: SINGLE FAMILY RESIDENCE  
FULL AUTOMATIC FIRE SPRINKLER SYSTEM: NONE

APPROVAL OF THE FIRE DEPARTMENT HAVING JURISDICTION MUST BE OBTAINED "PRIOR" TO THE CITY OF LAS VEGAS APPROVING THE FINAL WATER PLAN.

REVIEWED BY:  
DATE:

WATER CONSTRUCTION NOTES

- STD. FIRE HYD. W/ASSY. PER UDACS PLATE 7
- 8" TEE PER UDACS PLATE 5
- 8" GATE VALVE PER UDACS PLATE 8
- 8" 90° BEND PER UDACS PLATE 5
- 8" 45° BEND PER UDACS PLATE 5
- CAP & 2" BLOW OFF ASSEMBLY PER UDACS PLATE 4
- 12"x12" TEE PER UDACS PLATE 5
- 10"x10" TEE PER UDACS PLATE 5
- 12"x10" REDUCER PER UDACS PLATE 5
- 10"x8" REDUCER PER UDACS PLATE 5
- 12" GATE VALVE PER UDACS PLATE 8
- 10" GATE VALVE PER UDACS PLATE 8
- 12" CROSS PER UDACS PLATE 5
- 1" TYPE "K" COPPER SERVICE PER UDACS PLATE 1B
- 1" TYPE "K" COPPER SERVICE PER UDACS PLATE 1D
- 8"x6" REDUCER PER UDACS PLATE 5
- 12"x8" REDUCER PER UDACS PLATE 5
- 10"x8" MJ TAPPING SLEEVE AND 8" TAPPING VALVE PER UDACS PLATE 22
- 8" TAPPING VALVE PER UDACS PLATE 8
- 3/4" METER PER UDACS PL #1D
- 1" RPPA PER UDACS PL #11A
- 5/8" METER PER UDACS PL #1B

\* DENOTES DRIVEWAY LOCATION (6' MIN. FROM FIREHYDRANT)

BENCHMARK

CITY OF LAS VEGAS VERTICAL CONTROL  
CITY OF NORTH LAS VEGAS BM #519116 SW COR OF WATER DISTRICT FENCE, DECATUR BLVD & DEER SPRINGS WAY.

STATION 1LV90  
24E4  
ELEVATION= 701.4396 METERS (NAVD88)  
2301.306 FEET

CLV BENCHMARK  
CITY OF LAS VEGAS VERTICAL CONTROL  
BRASS CAP IN CONCRETE AT DECATUR BLVD & DEERSPRINGS (CLNV519116)

STATION 1LV90  
24E4  
AS OF JUNE 3, 2002  
ELEVATION= 701.3687 METERS (NAVD88)  
2301.07 FEET

PROJECT BM = CLV BM+0.24'

BASIS OF BEARINGS

NORTH 00°06'17"EAST BEING THE EAST LINE OF THE NORTHEAST QUARTER (NE 1/4) OF SECTION 24, TOWNSHIP 19 SOUTH, RANGE 60 EAST, W.D.M., CLARK COUNTY, NEVADA, AS SHOWN BY MAP IN THE OFFICE OF THE CLARK COUNTY, NEVADA RECORDER IN FILE 57 OF SURVEYS PAGE 05.

REVISION DESCRIPTION

|     |      |    |          |
|-----|------|----|----------|
| NO. | DATE | BY | APPROVED |
|     |      |    |          |

3610 North Rancho Drive  
Las Vegas, Nevada 89130  
Telephone: (702) 648-9700  
Fax: (702) 648-4143

ENGINEERING  
SOUTHWEST  
LAND PLANNING • MAPPING • DEVELOPMENT

UTILITY PLAN

PARADISE MEADOWS SOUTH

PROJECT

CITY OF LAS VEGAS

WORK ORDER NO. 020314

DESIGN BY: TEAM 1

DATE: 10-25-02

SCALE: 1"=50'

CADFILE: PMSMUP

SHEET 11 OF 18 SHEETS

CLV DWG NO. 3074-4735