

LAS VEGAS VALLEY WATER DISTRICT STANDARD NOTES

- 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.
 - CALL BEFORE YOU DIG 1-800-227-2800.
 - ALL WORK SHALL CONFORM TO LVWD LATEST STANDARD PLATES, DRAWINGS, AND SPECIFICATIONS.
 - 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 OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA.
 - 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.
 - 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:
- | PIPE SIZES..... | ACP..... | DUCTILE IRON | DUCTILE IRON |
|-----------------|-------------|--------------|--------------|
| 6 INCH | 2.5 DEGREES | 2.5 DEGREES | 3.5 DEGREES |
| 8-12 INCH | 2.5 DEGREES | 2.5 DEGREES | 2.5 DEGREES |
| 14-18 INCH | 2.0 DEGREES | 1.5 DEGREES | 1.5 DEGREES |
| 18-24 INCH | 1.5 DEGREES | 1.5 DEGREES | 1.5 DEGREES |
- ON PVC PIPE, THE MAXIMUM OFFSET FOR A 20' LENGTH OF FACTORY BELLED PIPE SHALL BE 18 INCHES FOR 8" PIPE, 12 INCHES FOR 10" PIPE, AND 9 INCHES FOR 12" AND 14" PIPE.
- IF THESE OFFSETS CONFLICT WITH THE PIPE MANUFACTURERS RECOMMENDATION, THE MORE STRINGENT REQUIREMENT SHALL APPLY.
- ALL WATER METER BOXES SHALL BE LOCATED OUTSIDE OF DRIVEWAY AREAS.
- ALL VALVES SHALL BE LOCATED OUTSIDE OF DRIVEWAYS AND VALLEY CUTTERS.
- DETECTOR TAPE SHALL BE REQUIRED IN ACCORDANCE WITH STANDARD PLATE NO. 27 WHERE INDICATED, AND AS FOLLOWS:
- OVER ALL MAINS NOT INSTALLED 8 FEET FROM BACK OF CURB.
 - OVER ALL SERVICE LATERALS NOT INSTALLED AT RIGHT ANGLES TO MAIN.
- ALL WATER MAINS SHALL BE PRESSURE TESTED AT 200 PSI FOR A CONTINUOUS TWO HOUR PERIOD, IN ACCORDANCE WITH DISTRICT STANDARDS.
- 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'S SYSTEM.
- CONTRACTOR TO OBTAIN ALL METERS 2" AND SMALLER FROM LVWD CENTRAL STORES. TELEPHONE 258-3152 FORTY-EIGHT (48) HOURS PRIOR TO PICKUP.

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 #3677.
- AUTHORIZED HYDRANTS FOR THIS PROJECT ARE:

 - KENNEDY GUARDIAN
 - MUELLER A-423 CENTURIAN
 - CLOW MODEL 2546 MEDALLION

- ON ANY NEW HOME OR BUILDING INSTALLATION, ACCESSIBLE FIRE HYDRANTS SHALL BE INSTALLED BEFORE COMPLETION OF 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 #3677 TO IDENTIFY FIRE HYDRANT LOCATIONS.
- 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.
- 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.
- 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 A 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 88, 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 #3677.

LAS VEGAS FIRE DEPARTMENT

FIRE FLOW REQUIREMENT IS 1200 GALLONS/MIN. AT 20 LBS./SQ. IN. RESIDUAL.

BASED ON:

SQUARE FOOTAGE: 1,842
LARGEST AREA BETWEEN SEPARATION WALLS: 1/4
HEIGHT: 21'
TYPE OF CONSTRUCTION: CMU
EXPOSURES:
SPRINKLER SYSTEM: NONE
OCCUPANCY: SINGLE FAMILY
ROOF CONSTRUCTION: TILE

REVIEWED BY:

DATE:
PROVIDE FIRE LANE IDENTIFICATION PER CITY ORD. 3677

WATER CROSSING NOTE

THE FOLLOWING ARE THE REQUIREMENTS THAT MUST BE MET WHEN THERE IS A WATER-SEWER CROSSING:

WHEN PROTECTION OF THE WATERLINE IS CONSIDERED, THE MINIMUM VERTICAL DISTANCE OF 18 INCHES MUST BE MAINTAINED WHEN THE WATER LINE IS INSTALLED OVER THE SEWER/STORM LINE. IF THIS DISTANCE CANNOT BE MAINTAINED BECAUSE OF PHYSICAL OBSTRUCTIONS OR THE WATERLINE MUST BE PLACED UNDER THE SEWER/STORM LINE, THE SEWER/STORM LINE MUST BE CONSTRUCTED WITH ANY ONE OF THE FOLLOWING:

- EXTRA HEAVY CAST IRON OR DUCTILE IRON PIPE
- WATER SUPPLY QUALITY MATERIAL
- ENCASEMENT WITH 4 INCHES MINIMUM OF CONCRETE OR SLEEVING WITH WATER QUALITY PIPE

EACH OF THESE PROVISIONS MUST BE EXTENDED FOR 10 FEET ON EITHER SIDE OF THE WATERLINE AT 90 DEGREES TO THE CROSSING.

BENCH MARK

CITY OF LAS VEGAS BENCHMARK

BM ILV 9034 E4 5/8" REBAR +/- 50' WEST & +/- 5' NORTH OF INTERSECTION OF RAINBOW BLVD. AND WELCOME LN.

ELEVATION = 2319.05'

2 working days

Call before you dig

1-800-227-2800

PROJECT NAME: CONFETTI UNIT 3

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.

12/10/91

DATE

This property may have static water pressure in excess of 80 psi. The Uniform Plumbing Code requires that individual, on-site (private), pressure reducing valves be installed whenever the pressure exceeds 80 psi. PPR's are the Developer's responsibility and will not be inspected or included in the acceptance of LVWD facilities.

NOTE: THE CALCULATED FIRE FLOW OF 1000 GPM MINIMUM IS ACCEPTED UNTIL COMPLETION OF THE 36-INCH MAIN IN ANN ROAD.

NOTE

ALL SERVICES TO UNIT 3 WILL BE SERVED BY THE 2538 ZONE

2538 PRESSURE ZONE

MANHOLE U# 3
N 8480.25
E 17291.40

TRUE & CAP 1/4" C/OUIT
AT 5' POST CONSTRUCTION

MANHOLE U# 2
N 8255.06
E 17292.75

NOTE: ZONE VALVES TO REMAIN CLOSED AND ABANDONED AFTER SERVICE ZONE 2538 IS ESTABLISHED (SEE NOTE BELOW)

FIRE HYDRANT DETAIL

ESTIMATED QUANTITIES

WATER

- | | |
|---|---------|
| ① 8"x8" MECHANICAL JOINT TAPPING SLEEVE | 1 EA. |
| ② 8" TAPPING VALVE | 1 EA. |
| ③ FIRE HYDRANT ASSEMBLY (INCLUDES 6" PIPE, 6" VALVE, 6"x6" TEE, & 6" RISER) | 4 EA. |
| ④ 6" TEE | 2 EA. |
| ⑤ 6" - 90° ELBOW | 2 EA. |
| ⑥ 6" - 45° BEND | EA. |
| ⑦ 8"x8" CROSS | 2 EA. |
| ⑧ 6" GATE VALVE | 1 EA. |
| ⑨ 6" GATE VALVE | 7 EA. |
| ⑩ 6"x6" REDUCER | 2 EA. |
| ⑪ 2" BLOW OFF ASSEMBLY | 4 EA. |
| ⑫ 6" WATER MAIN | 2070 LF |
| ⑬ 6" WATER MAIN | 423 LF |
| ⑭ 3/4" WATER SERVICE WITH 3/4" METER | 35 EA. |

SEWER

- | | | |
|--------------------|---------|---------|
| STANDARD MANHOLES | 9 EA. | 12 EA. |
| WYED | 25 EA. | 3 EA. |
| 10" SEWER MAIN | 1184 LF | 1932 LF |
| 8" SEWER MAIN | 1082 LF | 4 EA. |
| 4" SERVICE LATERAL | 1100 LF | |

STREET LIGHTS

- | | |
|--------------------|---------|
| 100 WATT LUMIN. | 12 EA. |
| 1/2" 3/4" ROLL BOX | 3 EA. |
| 1/4" C/OUIT | 1932 LF |
| STREET NAME SIGN | 4 EA. |

NOTE:

CONTRACTOR TO VERIFY HORIZONTAL AND VERTICAL ALIGNMENT OF EXISTING UTILITIES AND TO NOTIFY THE ENGINEER IMMEDIATELY OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.

APPROVALS:

J. Lepore 2/9/94
CITY OF LAS VEGAS FIRE MARSHALL DATE

12/10/91 8/22/94
LAS VEGAS VALLEY WATER DISTRICT DATE

12/10/91 02/09/94
NEVADA POWER COMPANY DATE

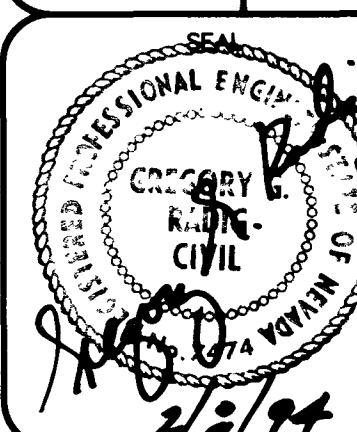
NEVADA POWER COMPANY APPROVAL IS ONLY FOR THE PLACEMENT AND CLEARANCE OF STREET LIGHTS AND SIGNAL LIGHT INSTALLATION.

MASTER UTILITY PLAN

CONFETTI UNIT 3

TITLE

PROJECT



WO NO. 4462-3

BY JPD / RJR

DATE OCT., '93

SCALE 1" = 40'

SHEET

6 OF 9 SHEETS

3074-4285-3

11-5-108

