

**INSTALLATION OF METER AND VAULT (2) 6" X 3" FMCT**

THE METER(S) AND VAULT(S) WITH NON-TRAFFIC BEARING COVER(S) SHALL BE INSTALLED IN ACCORDANCE WITH THE UDACS PLATE NO. 210 AND WITH STANDARD VAULT DRAWING C-475, LATEST REVISION.

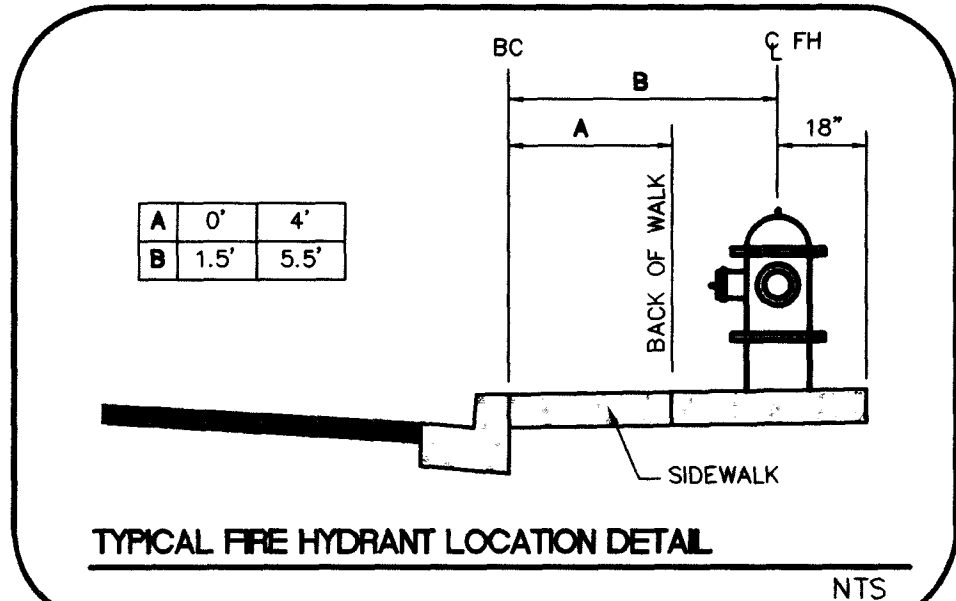
ANY BLOCK WALL OR OTHER FENCE MATERIAL SHALL BE DESIGNED AND CONSTRUCTED AROUND THE OUTSIDE OF THE EASEMENT(S) TO ALLOW THE DISTRICT DIRECT ACCESS TO THE VAULT(S) FROM THE ADJACENT RIGHT-OF-WAY.

METERS MUST BE SET IN A HORIZONTAL POSITION. AT LEAST EIGHT (8) DIAMETERS OF STRAIGHT PIPE ARE REQUIRED AT THE INLET END.

**FIRE HYDRANT INSTALLATION**

FIRE HYDRANTS TO BE INSTALLED IN ACCORDANCE WITH THE UDACS STANDARD PLATE NO. 7

FOR DRIVEWAY AND LATERAL STATIONS FOR LOTS 77 THROUGH 124 SEE SHEET S3A.



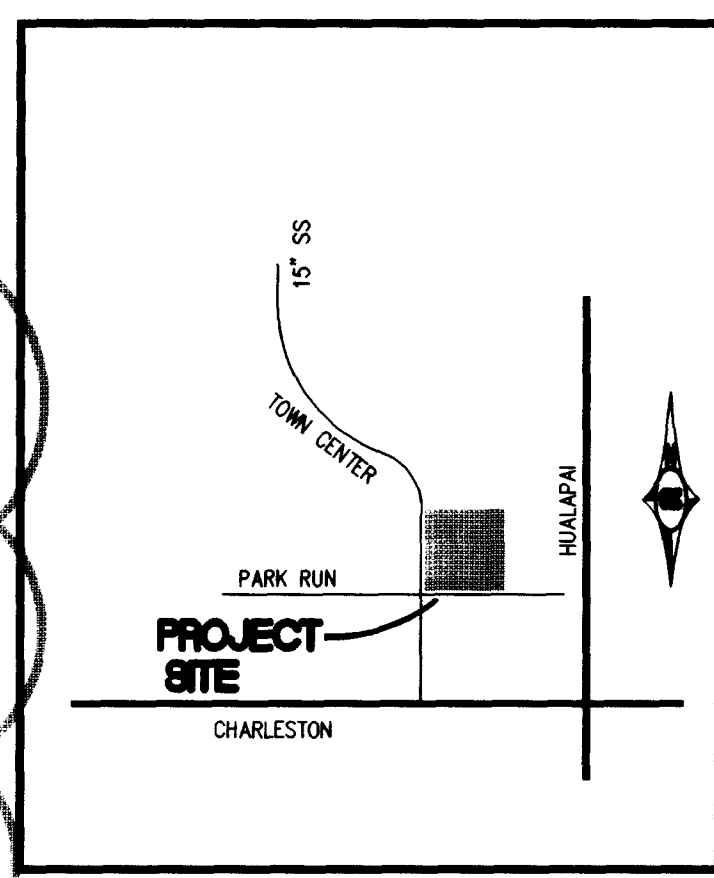
**WATER UTILITY CONSTRUCTION NOTES**

- 1) 6" F.H. ASSEMBLY (INCLUDES 8" X 6" TEE AND 6" GATE VALVE)
- 2) 8" GATE VALVE
- 3) 8" WATER MAIN
- 4) 8" X 8" TEE WITH THRUST BLOCK
- 5) 8" 90° BEND WITH THRUST BLOCK
- 6) 1" WATER SERVICE
- 7) IRRIGATION SLEEVES PER SIS-U-18
- 8) 8" X 10" REDUCER
- 9) 8" 18" FABRICATED BEND
- 10) 1" WATER SERVICE WITH RPPA PER UDACS PLATE NO. 10 AND IRRIGATION POWER SOURCE
- 11) 10" GATE VALVE
- 12) 8" X 6" REDUCER
- 13) 2" WATER SERVICE WITH RPPA PER UDACS PLATE NO. 10 AND IRRIGATION POWER SOURCE
- 14) 10" X 10" TEE W/THRUST BLOCK
- 15) 10" WATER MAIN
- 16) 12" X 8" TAPPING TEE AND VALVE
- 17) 12" X 6" REDUCER
- 18) 6" 90° BEND
- 19) 4" SEWER LATERAL
- 20) 8" SEWER
- 21) 48" SEWER MANHOLE
- 22) 1/2" PULLBOX
- 23) 1/4" CONDUIT WITH 2 AND 1/2" CONDUCTOR
- 24) GAS LINE
- 25) STREET SIGN
- 26) STOP SIGN (R1-1)
- 27) STREET NAME SIGN (D-3)

**DRIVEWAY AND LATERAL STATION TABLE**

\* ALL STATIONS IN THIS TABLE ARE AT BACK OF CURB

| LOT NUMBER | DRIVEWAY                    |                | SEWER                 |                     | WATER                 |                     |
|------------|-----------------------------|----------------|-----------------------|---------------------|-----------------------|---------------------|
|            | DRIVEWAY CENTERLINE STATION | DRIVEWAY WIDTH | SEWER LATERAL STATION | SEWER LATERAL WIDTH | WATER LATERAL STATION | WATER LATERAL WIDTH |
| 10         | STA: 19+26.74               | 16             | STA: 19+08.78         | 16                  | STA: 19+13.82         | 16                  |
| 11         | STA: 19+53.78               | 16             | STA: 19+38.93         | 16                  | STA: 19+43.81         | 16                  |
| 12         | STA: 19+83.83               | 16             | STA: 19+71.20         | 16                  | STA: 19+76.10         | 16                  |
| 13         | STA: 20+20.09               | 16             | STA: 20+02.77         | 16                  | STA: 20+07.56         | 16                  |
| 14         | STA: 20+46.88               | 16             | STA: 20+31.98         | 16                  | STA: 20+36.86         | 16                  |
| 15         | STA: 20+77.66               | 16             | STA: 20+64.66         | 16                  | STA: 20+69.56         | 16                  |
| 16         | STA: 21+18.47               | 16             | STA: 21+01.66         | 16                  | STA: 21+06.56         | 16                  |
| 17         | STA: 21+46.88               | 16             | STA: 21+31.66         | 16                  | STA: 21+36.56         | 16                  |
| 18         | STA: 21+77.66               | 16             | STA: 21+59.66         | 16                  | STA: 21+64.56         | 16                  |
| 60         | STA: 23+86.65               | 16             | STA: 23+99.47         | 16                  | STA: 24+04.47         | 16                  |
| 61         | STA: 23+59.24               | 16             | STA: 23+69.47         | 16                  | STA: 23+74.47         | 16                  |
| 62         | STA: 23+28.46               | 16             | STA: 23+41.46         | 16                  | STA: 23+46.46         | 16                  |
| 63         | STA: 22+78.31               | 16             | STA: 22+96.63         | 16                  | STA: 22+91.50         | 16                  |
| 64         | STA: 22+50.19               | 16             | STA: 22+65.80         | 16                  | STA: 22+60.86         | 16                  |
| 65         | STA: 22+18.60               | 16             | STA: 22+37.35         | 16                  | STA: 22+32.21         | 16                  |
| 66         | STA: 21+73.19               | 16             | STA: 21+90.87         | 16                  | STA: 21+85.86         | 16                  |
| 67         | STA: 21+45.79               | 16             | STA: 21+60.87         | 16                  | STA: 21+55.86         | 16                  |
| 68         | STA: 21+15.01               | 16             | STA: 21+32.87         | 16                  | STA: 21+27.86         | 16                  |
| 69         | STA: 20+73.19               | 16             | STA: 20+90.87         | 16                  | STA: 20+85.86         | 16                  |
| 70         | STA: 20+45.79               | 16             | STA: 20+60.87         | 16                  | STA: 20+55.86         | 16                  |
| 71         | STA: 20+15.01               | 16             | STA: 20+32.87         | 16                  | STA: 20+27.86         | 16                  |
| 72         | STA: 19+62.18               | 16             | STA: 19+75.58         | 16                  | STA: 19+70.57         | 16                  |
| 73         | STA: 19+34.01               | 16             | STA: 19+49.53         | 16                  | STA: 19+44.40         | 16                  |
| 74         | STA: 19+02.84               | 16             | STA: 19+15.76         | 16                  | STA: 19+20.81         | 16                  |
| 75         | STA: 18+60.98               | 16             | STA: 18+73.73         | 16                  | STA: 18+78.72         | 16                  |
| 76         | STA: 18+31.27               | 16             | STA: 18+43.73         | 16                  | STA: 18+48.70         | 16                  |
| 125        | STA: 18+62.21               | 16             | STA: 18+49.53         | 16                  | STA: 18+44.31         | 16                  |
| 126        | STA: 18+90.12               | 16             | STA: 18+80.01         | 16                  | STA: 18+74.97         | 16                  |
| 127        | STA: 19+03.52               | 16             | STA: 19+03.52         | 16                  | STA: 19+03.49         | 16                  |
| 128        | STA: 19+62.18               | 16             | STA: 19+50.30         | 16                  | STA: 19+45.18         | 16                  |
| 129        | STA: 19+88.78               | 16             | STA: 19+73.73         | 16                  | STA: 19+78.88         | 16                  |
| 130        | STA: 20+18.82               | 16             | STA: 20+01.08         | 16                  | STA: 20+06.01         | 16                  |
| 131        | STA: 20+60.64               | 16             | STA: 20+42.82         | 16                  | STA: 20+47.82         | 16                  |
| 132        | STA: 20+88.04               | 16             | STA: 20+72.82         | 16                  | STA: 20+77.82         | 16                  |
| 133        | STA: 21+18.82               | 16             | STA: 21+00.82         | 16                  | STA: 21+05.82         | 16                  |
| 134        | STA: 21+61.97               | 16             | STA: 21+44.15         | 16                  | STA: 21+49.15         | 16                  |
| 135        | STA: 19+62.18               | 16             | STA: 19+75.58         | 16                  | STA: 19+70.57         | 16                  |
| 136        | STA: 22+20.12               | 16             | STA: 22+02.15         | 16                  | STA: 22+07.15         | 16                  |
| 137        | STA: 22+58.63               | 16             | STA: 22+46.60         | 16                  | STA: 22+41.54         | 16                  |
| 138        | STA: 22+85.77               | 16             | STA: 22+69.93         | 16                  | STA: 22+75.13         | 16                  |
| 139        | STA: 23+15.21               | 16             | STA: 22+97.30         | 16                  | STA: 23+02.24         | 16                  |
| 140        | STA: 24+16.31               | 16             | STA: 24+34.12         | 16                  | STA: 24+29.12         | 16                  |
| 141        | STA: 23+88.90               | 16             | STA: 24+04.12         | 16                  | STA: 23+99.12         | 16                  |
| 142        | STA: 24+58.12               | 16             | STA: 24+34.12         | 16                  | STA: 24+29.12         | 16                  |
| 143        | STA: 22+61.19               | 16             | STA: 22+43.12         | 16                  | STA: 22+38.12         | 16                  |
| 144        | STA: 22+88.90               | 16             | STA: 23+04.12         | 16                  | STA: 22+99.12         | 16                  |
| 145        | STA: 22+58.12               | 16             | STA: 22+76.12         | 16                  | STA: 22+71.12         | 16                  |
| 146        | STA: 21+16.31               | 16             | STA: 21+29.12         | 16                  | STA: 21+24.12         | 16                  |
| 147        | STA: 20+88.90               | 16             | STA: 20+93.12         | 16                  | STA: 20+88.12         | 16                  |
| 148        | STA: 20+58.12               | 16             | STA: 20+76.12         | 16                  | STA: 20+71.12         | 16                  |
| 149        | STA: 20+15.32               | 16             | STA: 20+28.71         | 16                  | STA: 20+33.75         | 16                  |
| 150        | STA: 19+86.30               | 16             | STA: 19+97.90         | 16                  | STA: 20+02.79         | 16                  |
| 151        | STA: 19+54.79               | 16             | STA: 19+72.86         | 16                  | STA: 19+67.17         | 16                  |



**APPROVALS**

APPROVAL OF THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR OR AN APPROVAL OF ANY VIOLATION OF ANY OF THE PROVISIONS OF THE STATE OR COUNTY LAWS.

CLV: *[Signature]* FIRE DEPARTMENT DATE: 1/23/99

*[Signature]* LAS VEGAS VALLEY WATER DISTRICT DATE: 2-09-99

**ABANDONED VALVE CUT AND CAP**

ALL VALVES TO BE ABANDONED IN THE CLOSED POSITION, UNLESS OTHERWISE, BY REMOVING A MINIMUM OF THE TOP 12 INCHES OF THE VALVE BOX AND THEN FILLING THE REMAINING PORTION OF THE VALVE BOX WITH CONCRETE HAVING A COMPRESSIVE STRENGTH OF AT LEAST 2,000 PSI.

THE CONTRACTOR SHALL CUT THE EXISTING PIPE 3' BEYOND THE ABANDONED VALVE AND INSTALL A CAP WHERE A JOINT OR COUPLING IN THE EXISTING PIPE IS UNCOVERED AT THE CUT AND CAP LOCATION. THE INSTALLATION OF A PLUG MAY BE PERMITTED WITH DISTRICT APPROVAL. THE CONTRACTOR SHALL INSTALL A CONCRETE THRUST BLOCK IN ACCORDANCE WITH THE PROVISIONS OF THE UDACS PLATE NO. 5 AT ALL CAP OR PLUG LOCATIONS.

**REDUCED PRESSURE PRINCIPLE ASSEMBLY (2) 8"**

APPROVED REDUCED PRESSURE PRINCIPLE ASSEMBLY(S) SHALL BE INSTALLED PER THE UDACS PLATE NO. 11B. NO WATER SHALL BE TAKEN FROM A SERVICE REQUIRING BACKFLOW PREVENTION UNTIL THE REDUCED PRESSURE PRINCIPLE ASSEMBLY HAS BEEN SUCCESSFULLY TESTED BY THE LVWD.

ANY BLOCK WALL OR OTHER FENCE MATERIAL SHALL BE DESIGNED AND CONSTRUCTED AROUND THE OUTSIDE OF THE EASEMENT(S) TO ALLOW DISTRICT DIRECT ACCESS FROM THE ADJACENT RIGHT-OF-WAY.

**CITY OF LAS VEGAS FIRE DEPARTMENT FIRE FLOW DATA**

| DESCRIPTION                   | TYPE OF CONSTRUCTION | V-N          |
|-------------------------------|----------------------|--------------|
| NO. OF STORIES                |                      | 2            |
| TOTAL FLOOR AREA (SQ.FT.)     |                      | 4,857 sq.ft. |
| LARGEST SUCCESSIVE FLOOR AREA |                      | 4,558 sq.ft. |
| ESTIMATED FIRE FLOW           |                      | 1750 GPM     |
| BUILDING HEIGHT               |                      | 38'          |
| SPRINKLED                     |                      | NO           |

**BENCHMARK**

CITY OF LAS VEGAS BENCHMARK  
 OLVD0554 RIVT & PLATE IN TOP OF CURB NW SIDE OF TOWN CENTER DRIVE & SOUTH CIRCLE ISLAND  
 2725.923 NGVD 1929 DATUM  
 2718.37 NAVD 1988 DATUM (831.6074 M)  
 2726.19 SUMMERLIN DATUM

**BASIS OF BEARING**

NORTH 15°23'46" EAST BEING THE BEARING OF THE CENTERLINE OF ANA242 DRIVE AS SHOWN BY MAP THEREOF ON FILE IN BOOK 74, PAGE 70 OF PLATS IN THE CLARK COUNTY RECORDER'S OFFICE, CLARK COUNTY NEVADA

SEE SHEET C5, DRAWING NO. 6 FOR ESTIMATED UTILITY QUANTITIES

**LOTS WITH BACKWATER VALVES**

THE FOLLOWING LOTS REQUIRE SEWER BACKWATER VALVES  
 LOTS: 10-12, 17, 18, 41-46, 52-61, 65-70, 73, 74, 126-128, 313-137, 141-148, 155, 156

**DISCLAIMER NOTE:**

UTILITY LOCATIONS SHOWN HEREON ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING UNDERGROUND OR OVERHEAD 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. CONTRACTOR TO NOTIFY ENGINEER OF ANY CHANGES OR DISCREPANCIES.

Avoid cutting underground utility lines. It's costly.  
**before Call you Dig**  
 1-800-227-2600  
 UNDERGROUND SERVICE (USA)

Avoid overhead power line contact.  
**before Call you Overhead**  
 1-702-593-6111  
 NEVADA POWER ENVIRONMENT AND SAFETY SERVICES DEPARTMENT

**KEY MAP**

