

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.

Call before you Dig
AVOID HITTING UNDERGROUND
UTILITY LINES. IT'S COSTLY.



1-800-227-2600



Call before you Dig
Underground
FREEMAN AND ARTERIAL
SYSTEM OF TRANSPORTATION
1-702-227-2929

BENCHMARK

CITY OF LAS VEGAS BENCHMARK 7LV09 34SW6

RIVET AND ROUND PLATE IN THE TOP OF CURB AT THE
SOUTHEAST CORNER OF DESERT MOON RD. AND SKY VISTA
DR.

ELEVATION = 1011.422 METERS (NAVD '88)
ELEVATION = 3318.31 US SURVEY FEET (NAVD '88)

BASIS OF BEARINGS

NORTH 88°47'20" EAST BEING THE BEARING OF THE NORTH LINE OF
THE NORTHEAST QUARTER (NE 1/4) OF THE NORTHWEST QUARTER
(NW 1/4) OF SECTION 12, TOWNSHIP 21 SOUTH, RANGE 60 EAST,
M.D.M., CLARK COUNTY, NEVADA, AS SHOWN ON THAT CERTAIN MAP
ON FILE IN THE CL PAGE 71 OF PLATS.

WATER CONSTRUCTION NOTES

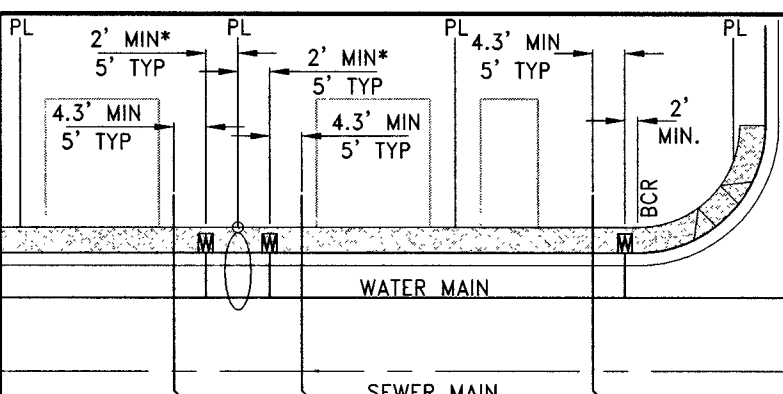
1. INSTALL FIRE HYDRANT ASSEMBLY PER UDACS PLATE No. 40 (INCLUDES 6" GATE VALVE)
2. INSTALL 1" COPPER SERVICE LATERAL WITH 3/4" METER PER UDACS PLATE No. 36
3. INSTALL GATE VALVE (SAME SIZE AS PIPE) PER UDACS PLATE No. 30 & No. 39
4. INSTALL 8" X 6" TEE PER UDACS PLATE No. 31
5. INSTALL 8" X 8" TEE PER UDACS PLATE No. 31
6. INSTALL 8" X 8" REDUCER PER UDACS PLATE No. 30
7. INSTALL 12" X 8" REDUCER PER UDACS PLATE No. 30
8. INSTALL CAP (SAME SIZE AS PIPE) WITH 2" BLOW OFF ASSEMBLY PER UDACS PLATE No. 36
9. INSTALL 1.5" COPPER SERVICE LATERAL WITH 1.5" WATER METER (FOR IRRIGATION) WITH 1.5" RPPA PER UDACS PLATE No. 4 & 8 (1.5" BRASS WATERLINE BETWEEN METER AND RPPA) AND CURB STOP PER DETAIL 1 ON SHEET U-4
10. INSTALL 10" X 8" REDUCER PER UDACS PLATE No. 30
11. INSTALL 1" COPPER SERVICE LATERAL WITH 3/4" WATER METER (FOR IRRIGATION) WITH 1" RPPA PER UDACS PLATE No. 4 & 8 (1" BRASS WATERLINE BETWEEN METER AND RPPA) AND CURB STOP PER DETAIL 1 ON SHEET U-4
12. INSTALL 5" BEND (SAME SIZE AS PIPE) PER UDACS PLATE No. 31
13. INSTALL 11.25" BEND (SAME SIZE AS PIPE) PER UDACS PLATE No. 31
14. INSTALL 22.5" BEND (SAME SIZE AS PIPE) PER UDACS PLATE No. 31
15. INSTALL 10" X 8" REDUCER PER UDACS PLATE No. 30
16. INSTALL 45" BEND (SAME SIZE AS PIPE) PER UDACS PLATE No. 31
17. REMOVE EX CAP AND BLOWOFF AND CONNECT TO EXISTING WATER MAIN PER UDACS PLATE No. 36
18. INSTALL 10" X 10" TEE PER UDACS PLATE No. 31
19. INSTALL 1" COPPER SERVICE LATERAL WITH 3/4" METER BEHIND SIDEWALK PER UDACS PLATE No. 1 AND DETAIL 1 SHEET U-1
20. INSTALL 22.5" MECHANICALLY RESTRAINED JOINT BEND (SAME SIZE AS PIPE)
21. INSTALL 11.25" MECHANICALLY RESTRAINED JOINT BEND (SAME SIZE AS PIPE)
22. INSTALL 22.5" VERTICAL BEND (SAME SIZE AS PIPE) PER UDACS PLATE No. 31
23. INSTALL 45" VERTICAL BEND (SAME SIZE AS PIPE) PER UDACS PLATE No. 31
24. INSTALL 45" MECHANICALLY RESTRAINED JOINT BEND (SAME SIZE AS PIPE)

SEWER CONSTRUCTION NOTES

1. INSTALL 48" STANDARD MANHOLE (PER DCSWCS STD. No. SD-1A, SD-4, SD-5 & SD-9) WITH SINGLE 24" LID
2. INSTALL 4" SEWER LATERAL (PER DCSWCS STD. No. SD-17, SD-22 & SD-25) AND 1 CU-FT THRUST BLOCK @ CAP
3. TYPICAL LOCATION FOR SEWER LATERAL AT WATER MAIN CROSSING. ALL SEWER LATERALS MUST MAINTAIN 24" VERTICAL CLEARANCE BELOW WATER MAIN AT CROSSINGS.
4. INSTALL 8" SEWER CAP AND 1 CU-FT THRUST BLOCK @ CAP PER DCSWCS SEC. 2.2.5
5. INSTALL 48" STANDARD MANHOLE (PER DCSWCS STD. No. SD-1A, SD-1B, SD-4, SD-5 & SD-9) WITH SINGLE 24" LID & CORROSION PROTECTION PER DCSWCS 3.16.8 AND 4.9.9.
6. INSTALL 4" SEWER LATERAL (FUTURE USE) (PER DCSWCS STD. No. SD-17, SD-22 & SD-25) AND 1 CU-FT THRUST BLOCK @ CAP

SEWER EASEMENT NOTE

NO STRUCTURES AND NO TREES OR VEGETATION TALLER
THAN THREE FEET ALLOWED WITHIN CLV SEWER EASEMENT



TYPICAL WATER AND
SEWER LATERAL LOCATIONS

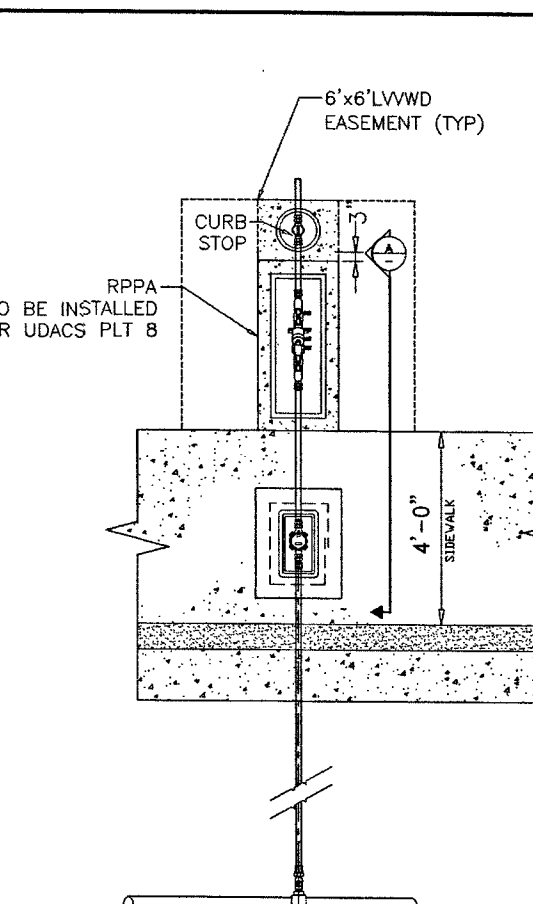
*MINIMUM SEPARATION OF 5'-FEET REQUIRED FROM STREET LIGHT
CENTER TO WATER METER BOX CENTER

WATER MAIN JOINT DEFLECTION, PER UDACS 2.07.01 AND 2.07.03.

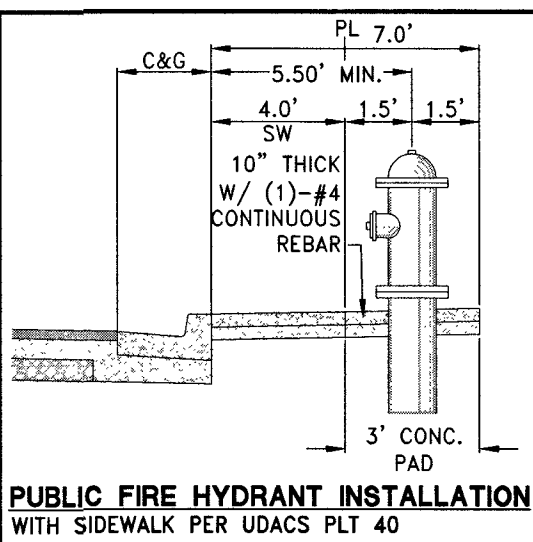
NOTE:
INSTALL PIPELINE MARKER BALLS, PER UDACS PLATE No. 15

WATER NOTE FOR ALL LOTS

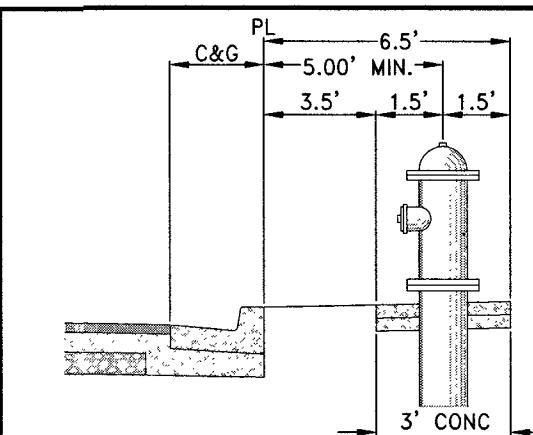
1. THIS PROJECT RESIDES WITHIN THE 3550 WATER ZONE. THEREFORE
ALL LOTS WITH A FINISH FLOOR ELEVATION LESS THAN 3366.39 WILL
REQUIRE AN INDIVIDUAL, ON-SITE (PRIVATE) PRESSURE REDUCING VALVE.
LOTS: 59-82, 154, AND 155
THIS PROPERTY MAY HAVE STATIC WATER PRESSURE IN EXCESS OF 80 PSI. THE
UNIFORM PLUMBING CODE REQUIRES THAT INDIVIDUAL, ON-SITE (PRIVATE),
PRESSURE-REDUCING VALVES (PRV) BE INSTALLED WHENEVER THE PRESSURE
EXCEEDS 80 PSI. PRV'S ARE THE DEVELOPER'S RESPONSIBILITY AND WILL NOT
BE INSPECTED OR INCLUDED IN THE ACCEPTANCE OF LVVWD FACILITIES.



1 METER AND RPPA WITH CURB STOP DETAIL
U-4 UDACS PLATE No. 4 AND 8
SCALE: NTS



PUBLIC FIRE HYDRANT INSTALLATION
WITH SIDEWALK PER UDACS PLT 40



PUBLIC FIRE HYDRANT INSTALLATION
WITHOUT SIDEWALK PER UDACS PLT 40

PRESSURE REDUCING VALVE

ALL LOTS WITH THIS SYMBOL REQUIRE
A PRESSURE REDUCING VALVE

BACKWATER VALVE

ALL LOTS WITH THIS SYMBOL REQUIRE
A BACKWATER VALVE

FOR ALL DRY UTILITY CROSSINGS

- MAINTAIN MINIMUM 12" VERTICAL SEPARATION AT ALL POINTS OF CROSSING.
- MAINTAIN MINIMUM 3" PARALLEL SEPARATION.
- ANY EXCAVATION AT BACK OF CURB MUST REMAIN OPEN FOR INSPECTION OR CORPUS SERVICE LATERALS. ANY CORPUS SERVICE LATERAL KINKED, BENT OR OTHERWISE DAMAGED MUST BE REPLACED FROM THE MAIN TO THE ANGLE METER STOP.

NOTES:

1. PROTECT IN PLACE AND ADJUST LVVWD EXISTING FACILITIES TO FINISHED GRADE PER UDACS. ALL LVVWD FACILITIES SHALL BE ACCESSIBLE AT ALL TIMES.
2. ALL SEWER/STORM DRAIN CROSSING WATER LINES MUST COMPLY WITH UDACS SECTION 2.22.
3. ALL WATER PIPE DIMENSIONS SHOWN ARE GIVEN FROM FITTING TO FITTING AND ARE FOR REFERENCE ONLY. CONTRACTOR TO VERIFY ALL DIMENSION PRIOR TO CONSTRUCTION.
4. HORIZONTAL OFFSET DIMENSIONS SHOWN ARE BASED ON WATER MAIN CENTERLINE TO STORM DRAIN AND OR SEWER OUTSIDE EDGE OF PIPE AND OR MANHOLE. HORIZONTAL SEPARATION SHALL NOT BE LESS THAN SIX (6) FEET FROM EXTERIOR PIPE WALLS.

BUILDING INFORMATION

TYPE OF CONSTRUCTION:
TOTAL LIVING AREA:
TOTAL SF UNDER ROOF:
NUMBER OF STORIES:
BUILDING USE:
SPRINKLERED:
NUMBER OF FIRE HYDRANTS:
FIRE FLOW:
V-B
< 3,600 S.F.
< 3,600 S.F.
2
SINGLE FAMILY RESIDENTIAL
0
7
1500 GPM AT 20 PSI RESIDUAL

EXISTING UTILITY NOTE:

1. EXISTING UTILITIES AS SHOWN ARE FOR REFERENCE ONLY. CONTRACTOR TO FIELD VERIFY BOTH VERTICAL AND HORIZONTAL LOCATION OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION. ENGINEER ASSUMES NO RESPONSIBILITY FOR EXISTING UTILITIES SHOWN INCORRECTLY OR OTHERWISE NOT SHOWN.

UTILITY LATERAL NOTE:

WATER AND SEWER LATERAL STATIONS SHOWN ON THIS PLAN SET ARE CALCULATED AT THE BACK OF CURB

NOTE:

ALL ABOVE GROUND UTILITY APPURTENANCES SHALL CONFORM TO THE REQUIREMENTS OF TITLE 19.06 AND 19.08.

NOTE:

LVVWD CANNOT GUARANTEE A WATERTIGHT SHUTDOWN WHERE CONNECTIONS OR REPAIRS TO EXISTING FACILITIES ARE REQUIRED. THE CONTRACTOR SHALL ENSURE ALL LABOR AND EQUIPMENT IS AVAILABLE TO REMOVE REMAINING WATER. COORDINATION WITH INSPECTION DIVISION MUST TAKE PLACE PRIOR TO ANY TRIAL SHUTDOWN.

CITY OF LAS VEGAS FIRE DEPARTMENT APPROVAL

APPROVAL OF THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR, OR ANY APPROVAL OF, ANY VIOLATION OF ANY OF THE PROVISIONS OF THE STATE OR COUNTY LAWS.
APPROVAL BY THE FIRE DEPARTMENT HAVING JURISDICTION IS REQUIRED PRIOR TO OBTAINING FINAL APPROVAL FROM THE LVVWD.
FIRE FLOW 1,500 GPM AT 20 PSI RESIDUAL

* SEE WATER METER DETAIL 1 SHEET U-1 FOR LOTS 51, 56, 67, AND 73

STORM DRAIN MANHOLE NOTE:

USE FULL-STRENGTH GROUT WITH WATERTIGHT JOINTS AND ENCASE MANHOLE WITH A MINIMUM OF 4 INCHES OF CEMENT SLURRY.

APPROVED FOR CONSTRUCTION

11-13-17
DRAWING
U-4
SHT 16 OF 32
CLV DRAWING NUMBER
1075062-1
CLV PROJECT # L17-00668

IMPROVEMENT PLANS FOR
SUMMERLIN VILLAGE 24 PARCEL C UNIT 1
A SINGLE FAMILY RESIDENTIAL SUBDIVISION
UTILITY PLAN (SHEET 4 OF 5)

LENNAR®
2490 PASO VERDE PARKWAY SUITE 120 HENDERSON, NV 89074
PHONE: (702) 736-9100 FAX: (702) 736-9200

RCI Engineering
4325 DEAN MARTIN DR, Suite 300, Las Vegas, NV 89103
PH: 702-453-0800 FAX: 702-453-0801

NEVADA
CITY OF LAS VEGAS
PROJ.#: 125867 AGR116516 QS:137-34-SW NX:11370
11/13/17 11:29am

DATE: November 13, 2017
HORIZ. SCALE: 1"=30'
VERT. SCALE: 1"=50'
DRAWN BY: DJ
DESIGNED BY: AW
CHECKED BY: CRZ
APPROVED BY: CRZ
PROJECT #: 3040-0048

DATE: 11-13-17
DRAWING
U-4
SHT 16 OF 32
CLV DRAWING NUMBER
1075062-1
CLV PROJECT # L17-00668