

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 overhead power line contact. It's costly.

Call before you dig
1-702-227-2929

Nevada Power
Environment and Safety
Services Department

Call before you dig

Call before you dig
1-800-227-2600

CLARK COUNTY Public Operations
1-702-455-6000

LEGAL DESCRIPTION

ALL OF PARCEL Q AS SHOWN ON THE FINAL MAP OF SUMMERLIN VILLAGE 238, UNIT No. 2 ON FILE IN THE OFFICE OF THE COUNTY RECORDER OF CLARK COUNTY NEVADA IN BOOK 145 OF PLATS AT PAGE 83, SITUATE IN SECTION 27, TOWNSHIP 20 SOUTH, RANGE 59 EAST, M.D.M., CITY OF LAS VEGAS, CLARK COUNTY NEVADA.

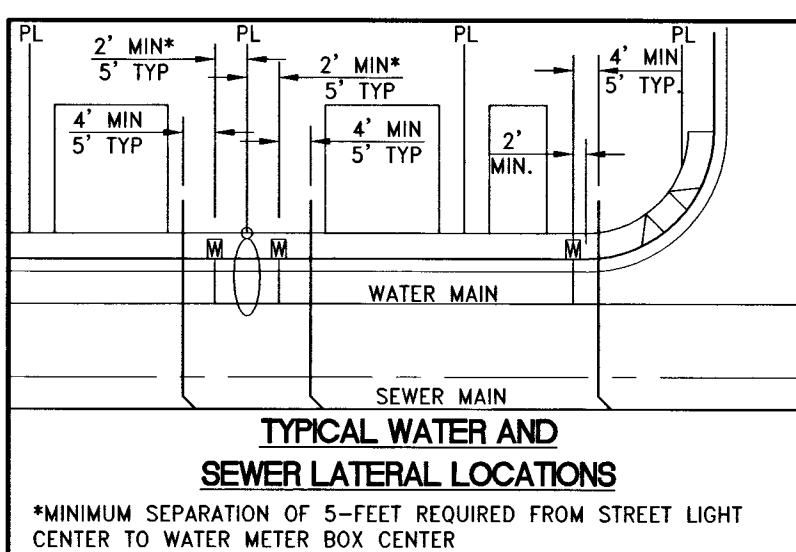
BENCHMARK

CITY OF LAS VEGAS BENCHMARK STATION SLV09 34NE6
RIVET AND PLATE IN TOP OF CURB AT THE NORTHEAST CORNER OF DESERT FOOTHILLS AND ALTA DRIVE.

ELEVATION = 1007.197 METERS (NAVD'88)
ELEVATION = 3304.45 US SURVEY FEET (NAVD'88)

BASIS OF BEARINGS

NORTH 89°46'49" EAST, BEING THE BEARING OF THE NORTH LINE OF SECTION 27, TOWNSHIP 20 SOUTH, RANGE 59 EAST, M.D.M., CITY OF LAS VEGAS, CLARK COUNTY, NEVADA AS SHOWN BY MAP THEREOF ON FILE IN FILE 91, PAGE 28 OF PARCEL MAPS IN THE COUNTY RECORDER'S OFFICE, CLARK COUNTY, NEVADA.



BACKWATER VALVE

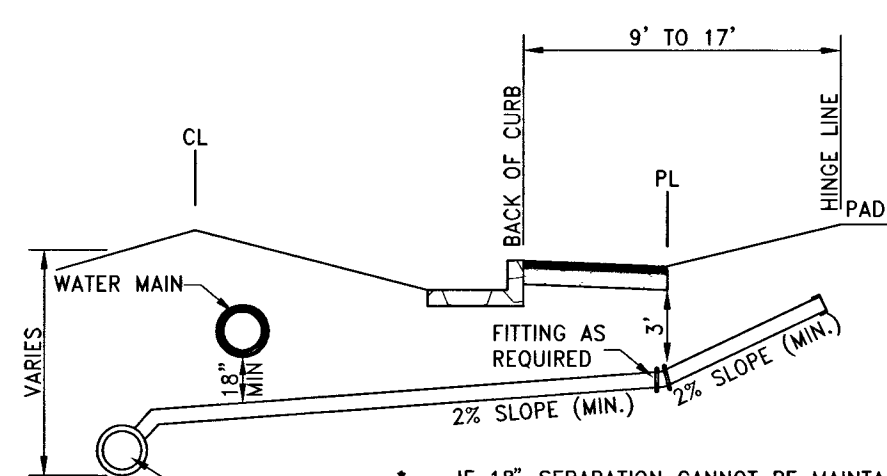
ALL LOTS WITH THIS SYMBOL REQUIRE A BACKWATER VALVE

PRESSURE REDUCING VALVE NOTE

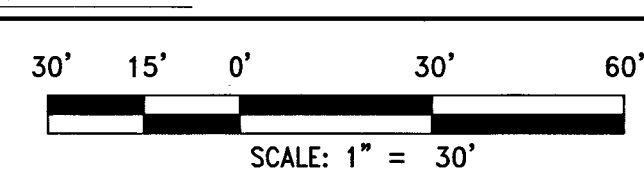
NO LOTS IN THIS PROJECT REQUIRE ON-SITE PRIVATE PRESSURE REDUCING VALVES.

NOTES:

- SEE DCSWCS SD-22 & SD-23 FOR SEWER LATERALS.
- CURB SHALL BE STAMPED WITH AN "S" PER DCSWCS SD-25.
- SEPARATION FROM WATER MAIN TO BE IN COMPLIANCE WITH UDACS SECTION 2.22.03.



KEYMAP



REDUCING PRESSURE PRINCIPLE ASSEMBLY (3) 1"

APPROVED REDUCED PRESSURE PRINCIPLE ASSEMBLY(S) SHALL BE INSTALLED PER THE UDACS PLATE NO. 8. NO WATER SHALL BE TAKEN FROM A SERVICE REQUIRING BACKFLOW PREVENTION UNTIL THE REDUCED PRESSURE PRINCIPLE ASSEMBLY HAS BEEN SUCCESSFULLY TESTED BY LVWD. 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 FROM THE ADJACENT RIGHT-OF-WAY. EASEMENTS SHALL BE CLEARLY MARKED OR STAKED PRIOR TO THE START OF CONSTRUCTION.

WASTEWATER FLOW CALCULATION

CALCULATIONS:
66 ERU (66 LOTS) * 250 GPD = 0.0165 MGD
= 0.0165 * 3.5 = 0.05775 MGD PEAK

WATER CONSTRUCTION NOTES

- INSTALL FIRE HYDRANT ASSEMBLY PER UDACS PLATE No. 39 & 40 (INCLUDES 6" GATE VALVE)
- INSTALL 1" COPPER SERVICE LATERAL WITH 3/4" METER PER UDACS PLATE No. 2
- INSTALL 8" GATE VALVE PER UDACS PLATE No. 30 & No. 39
- INSTALL 8" X 6" TEE PER UDACS PLATE No. 31
- INSTALL 8" X 8" TEE PER UDACS PLATE No. 31
- INSTALL 8" CAP WITH 2" BLOW OFF ASSEMBLY PER UDACS PLATE No. 36
- INSTALL (1) 6" & (2) 4" SCHEDULE 40 PVC IRRIGATION SLEEVES
- INSTALL 1-1/2" COPPER SERVICE LATERAL WITH 1-1/2" WATER METER (FOR IRRIGATION) WITH 1-1/2" RPPA PER UDACS PLATE No. 4 & 6 (1-1/2" BRASS WATERLINE BETWEEN METER AND RPPA)
- NOT USED
- INSTALL 8" 5" BEND PER UDACS PLATE No. 31
- INSTALL 8" 11.25" BEND PER UDACS PLATE No. 31
- INSTALL 8" 22.5" BEND PER UDACS PLATE No. 31
- INSTALL 8" 45" BEND PER UDACS PLATE No. 31
- INSTALL 8" 90" BEND PER UDACS PLATE No. 31
- REMOVE EX CAP AND BLOWOFF AND CONNECT TO EXISTING WATER MAIN PER UDACS PLATE No. 36
- INSTALL STEEL SLEEVE PER UDACS PLATE No. 23

SEWER CONSTRUCTION NOTES

- INSTALL 48" STANDARD MANHOLE (PER DCSWCS STD. No. SD-1A, SD-1B, SD-4, SD-5 & SD-6)
- INSTALL 4" SEWER LATERAL (PER DCSWCS STD. No. SD-17, SD-22 & SD-25)
- TYPICAL LOCATION FOR SEWER LATERAL AT WATER MAIN CROSSING. ALL SEWER LATERALS MUST MAINTAIN 18" VERTICAL CLEARANCE BELOW WATER MAIN AT CROSSINGS.
- INSTALL 8" SEWER CAP AND 1 CU-FT THRUST BLOCK @ CAP

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.

CITY OF LAS VEGAS FIRE DEPARTMENT APPROVAL

BY: *[Signature]* DATE: 6/30/15
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 LVWD.
FIRE FLOW 2,000 GPM AT 20 PSI RESIDUAL

APPROVED FOR CONSTRUCTION 15' RPPA on 3/17/15

DATE: 7/8/15 PROJECT: 123421
LVWD APPROVED FIRE FLOW 2000 GPM AT 20 PSI RESIDUAL

BUILDING INFORMATION

TYPE OF CONSTRUCTION: V-B
TOTAL LIVING AREA: < 4,487 S.F.
TOTAL 'SF' UNDER ROOF: < 5,317 S.F.
NUMBER OF STORIES: 2
BUILDING USE: SINGLE FAMILY RESIDENTIAL
SPRINKLERED: NO
NUMBER OF FIRE HYDRANTS: 10
FIRE FLOW: 2,000 GPM AT 20 PSI RESIDUAL

NOTES:

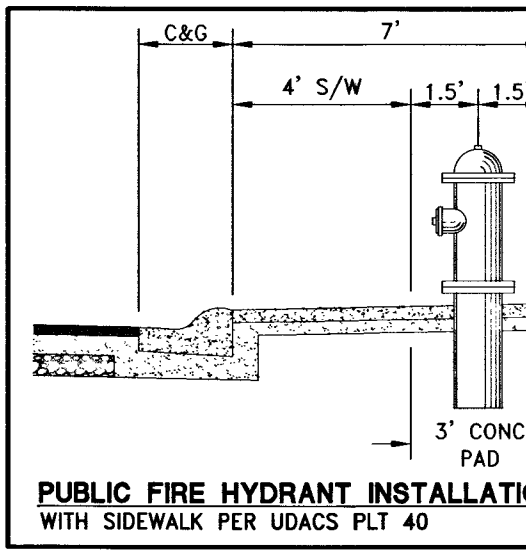
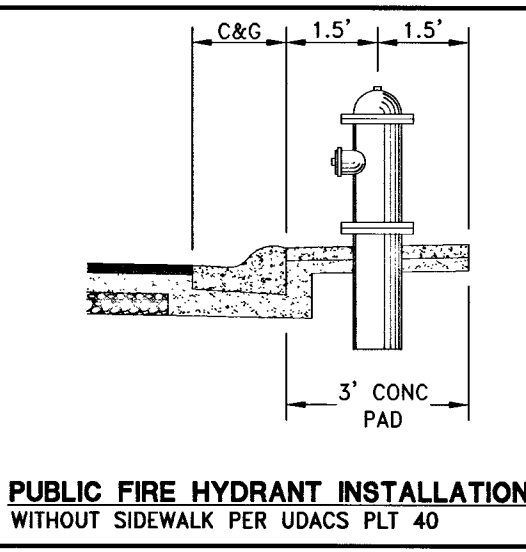
- ADJUST WATER VALVE BOXES TO FINISH GRADE PER UDACS PLATE No.39. VALVES SHALL BE ACCESSIBLE AT ALL TIMES.
- ALL SEWER/STORM DRAINS CROSSING WATERLINES MUST CONFORM TO SECTION 2.22 OF UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR POTABLE WATER SYSTEMS (UDACS) FOR WATER AND STORM MAIN CROSSING AND CLEARANCES.
- ALL WATER PIPE DIMENSIONS SHOWN ARE GIVEN FROM FITTING TO FITTING AND ARE FOR REFERENCE ONLY. CONTRACTOR TO VERIFY ALL DIMENSION PRIOR TO CONSTRUCTION.

WATER MAIN JOINT DEFLECTION (PVC 4'-24')

PVC PIPE SHALL BE DEFLECTED AT THE JOINT ONLY. THE MAXIMUM ALLOWABLE DEFLECTION SHALL BE ONE (1) DEGREE PER JOINT WITH A MINIMUM RADIUS OF CURVATURE OF 1,150 FEET, PER UDACS 2.07.01 AND 2.07.02 FOR CHANGES IN DIRECTION EXCEEDING THE MAXIMUM ALLOWABLE JOINT DEFLECTION, FITTINGS SHALL BE USED.

NOTE:

INSTALL PIPELINE MARKER BALLS IN TRENCH ABOVE EACH HORIZONTAL ELBOW FITTING PER UDACS PLATE No. 15



PUBLIC FIRE HYDRANT INSTALLATION
WITHOUT SIDEWALK PER UDACS PLT 40

PUBLIC FIRE HYDRANT INSTALLATION
WITH SIDEWALK PER UDACS PLT 40

TOLL SOUTH LV, LLC
1140 TOWN CENTER DRIVE SUITE 250
LAS VEGAS, NV 89144
PHONE: 702-243-9800 FAX: 702-243-9810

RCI Engineering
4325 Dean Martin Drive Suite 300, Las Vegas, NV 89103
PH702.453.0800 FAX702.455.0801

ALTURA UNIT 1
A SINGLE FAMILY RESIDENTIAL SUBDIVISION

UTILITY PLAN (SHEET 5 OF 11)

CITY OF LAS VEGAS
CHARTERED PROFESSIONAL ENGINEER
CHRISTOPHER L. THOMPSON
Exp. 6/30/2016
No. 14134
CIVIL
DRAWING
U-5
SHT 21 OF 47
CLV DRAWING NUMBER
10115024
H# 51615