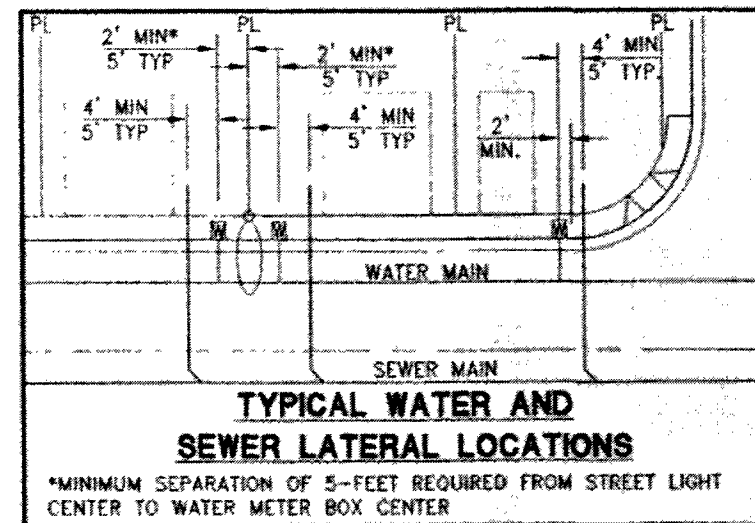


UTILITY LOCATIONS SHOWN HEREON ARE
APPROXIMATE ONLY. IT SHALL BE THE
CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE
EXACT HORIZONTAL AND VERTICAL LOCATION OF ALL
EXISTING UNDERGROUND OR OVERHEAD UTILITIES
PRIOR TO COMMENCING CONSTRUCTION. NO
REPRESENTATION IS MADE THAT ALL EXISTING
UTILITIES ARE SHOWN 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.

ALL OF PARCEL Q AS SHOWN ON THE FINAL MAP OF SUMMERLIN VILLAGE 23B, 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.

RIVET AND PLATE IN TOP OF CURB AT THE NORTHEAST
CORNER OF DESERT FOOTHILLS AND ALTA DRIVE.

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.



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.

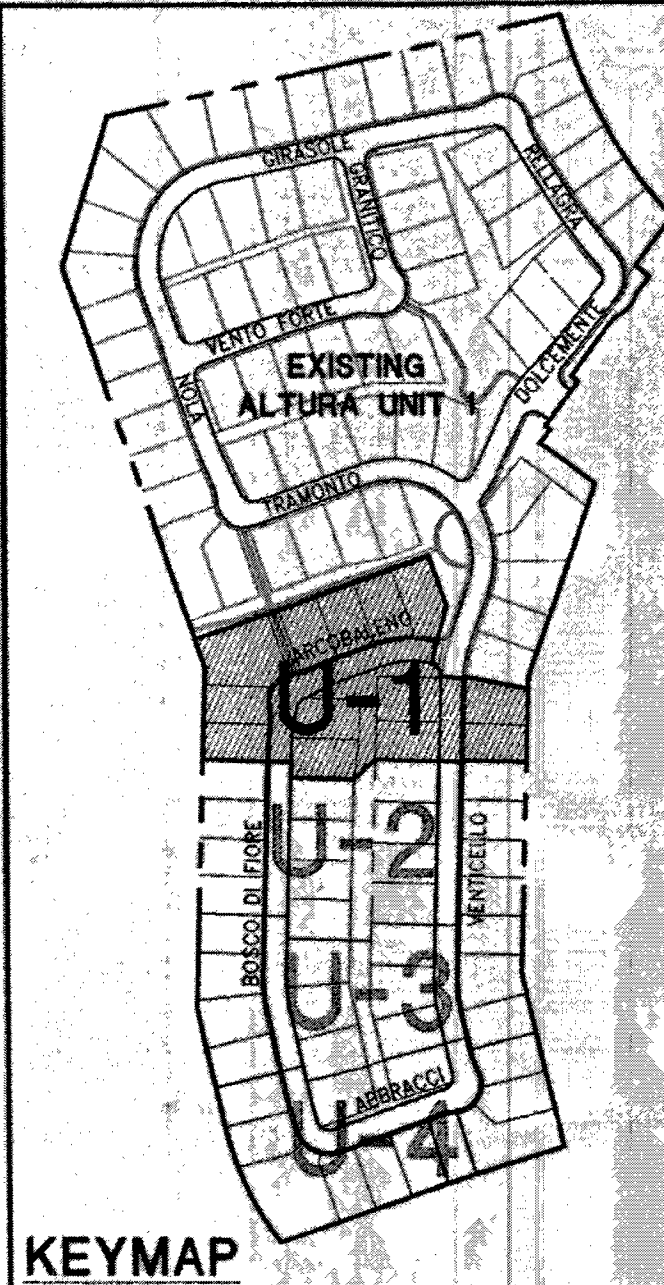
NOTE:

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

LOTS 33-42 AND 66-81
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. PRV'S
ARE THE DEVELOPER'S RESPONSIBILITY, AND WILL NOT BE
INSPECTED OR INCLUDED IN THE ACCEPTANCE OF LYVWD
FACILITIES.

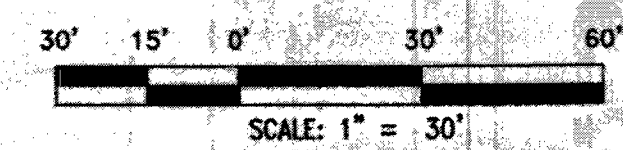
ⓈWV ALL LOTS WITH THIS SYMBOL REQUIRE A BACKWATER VALVE

ONE OR MORE SEGMENTS OF THE DOWNSTREAM SEWER SYSTEM THAT WILL SERVE THIS PROJECT HAS NOT BEEN COMPLETED AND/OR ACCEPTED FOR MAINTENANCE BY THE CITY OF LAS VEGAS. ANY WORK DONE ON THIS PROJECT PRIOR TO THE COMPLETION AND/OR ACCEPTANCE OF THE DOWNSTREAM SEWER SYSTEM(S) SHALL BE DONE AT THE DEVELOPERS OWN RISK. THE CITY OF LAS VEGAS RESERVES THE RIGHT TO PREVENT THE PHYSICAL CONNECTION OF THIS PROJECT INTO THE DOWNSTREAM SEWER SYSTEM UNTIL ALL SEGMENTS HAVE BEEN COMPLETED AND ACCEPTED FOR MAINTENANCE, OR UNTIL SUCH TIME AS THEY ARE DEEMED AVAILABLE FOR SERVICE.



ASBUILT

WESTERN STATES CONTRACTING, INC.
4129 W. CHEYENNE AVE. SUITE B
N. LAS VEGAS, NV 89032



- 1 INSTALL FIRE HYDRANT ASSEMBLY PER UDACS PLATE No. 40 (INCLUDES 6" GATE VALVE)
- 2 CORNER CONDUIT LATERAL WITH 5/4" METER PER UDACS PLATE No. 2
- 3 INSTALL 8" GATE VALVE PER UDACS PLATE No. 30 & No. 31
- 4 INSTALL 8" x 8" TEE PER UDACS PLATE No. 31
- 5 INSTALL 8" 5' BEND PER UDACS PLATE No. 31
- 6 INSTALL 8" 11.25' BEND PER UDACS PLATE No. 31
- 7 INSTALL 8" 22.5' BEND PER UDACS PLATE No. 31
- 8 INSTALL 8" 45' BEND PER UDACS PLATE No. 31
- 9 EXISTING FIRE HYDRANT WITH 6" GATE VALVE AND EXISTING EASEMENT
- 10 REMOVE EX CAS AND BLOWOFF AND CONNECT TO EXISTING WATER MAIN PER UDACS PLATE No. 36
- 11 INSTALL (2) 4" SCHEDULE 40 PVC IRRIGATION SLEEVES
- 12 EXISTING IRRIGATION SLEEVES
- 13 ADJUST WATER VALVE TO FINISH GRADE PER UDACS PLATE No. 39. VALVE SHALL BE ACCESSIBLE AT ALL TIMES

TYPE OF CONSTRUCTION:	V-E
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:	3
FIRE FLOW:	2,000 GPM AT 20 PSI RESIDUAL

1. ADJUST WATER VALVE BOXES TO FINISH GRADE PER UDACS PLATE NO.39. VALVES SHALL BE ACCESSIBLE AT ALL TIMES.
2. 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.
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. SERVICE LATERALS FOR LOTS: 31-40, 51, 72-83 WILL BE TAPPED ON EXISTING MAIN BY OWNER'S CONTRACTOR UNDER DIRECTION OF LVVWD.

- 21) INSTALL 48" STANDARD MANHOLE WITH A SINGLE UD (PER DCSWCS STD. No. SD-1A, SD-4, SD-5 & SD-6)
- 22) (TYP) INSTALL 4" SEWER LATERAL (PER DCSWCS STD. No. SD-17, SD-22 & SD-25)
- 23) REMOVE CAP AND CONNECT TO EXISTING 8" SEWER
- 24) TYPICAL LOCATION FOR SEWER LATERAL AT WATER MAIN CROSSING. ALL SEWER LATERALS MUST MAINTAIN 18" VERTICAL CLEARANCE BELOW WATER MAIN AT CROSSINGS.
- 25) EXISTING 4" LATERAL PER CLV#57695
- 26) INSTALL 4" C-900 SEWER LATERAL (PER DCSWCS STD. No. SD-17, SD-22 & SD-25)

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.

BY: L. M. K. DATE: 10/6/15

APPROVAL OF THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR OR 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 2,000 GPM AT 20 PSI RESIDUAL

1. DISHARI FOR JIM
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES/TEAM
DATE: 10/26/15 PROJECT: 123982
LIVING APPROVED FIRE FLOW 2,000 GPM AT 20 PSI RESIDUAL.

Diagram illustrating the Fire Hydrant Installation. The hydrant is shown with a 3' CONC PAD. Dimensions include 4' S/W (Sidewalk Width) and 1.5' spacing from the curb to the hydrant. The hydrant is located 7' from the centerline (C&G). The diagram also shows the hydrant's connection to the water and sewer lateral, with a note: "WATER AND SEWER LATERAL, STATION SHOWN ON THIS PLAN SET ARE CALCULATED AT THE BACK OF CURB".

UNIT 2 CALCULATIONS:
 $53 \text{ ERU (53 LOTS)} \times 250 \text{ GPD} = 0.01325 \text{ MGD}$
 $= 0.01325 \times 3.5 = 0.0464 \text{ MGD PEAK}$

DESCRIPTION	ASBUILT
1.00	1.00
2.00	2.00
3.00	3.00
4.00	4.00
5.00	5.00
6.00	6.00
7.00	7.00
8.00	8.00
9.00	9.00
10.00	10.00
11.00	11.00
12.00	12.00
13.00	13.00
14.00	14.00
15.00	15.00
16.00	16.00
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92.00	92.00
93.00	93.00
94.00	94.00
95.00	95.00
96.00	96.00
97.00	97.00
98.00	98.00
99.00	99.00
100.00	100.00

TOLL SOUTH LV, LLC

ALTURA UNIT 2 AT SUMMERLIN AT VILLAGE 23B
A SINGLE FAMILY RESIDENTIAL SUBDIVISION

UTILITY PLAN (SHEET 1 OF 4)

CITY OF LAS VEGAS



JOHN I.
LAND
Exp. 12/31/2015
CIVIL
License No. 16441, Nevada

10/5/2015

DRAWING

U-1

SHT 10 OF 22

CLW DRAWING NUMBER
10715024-2

CIV PROJECT # 60R27