

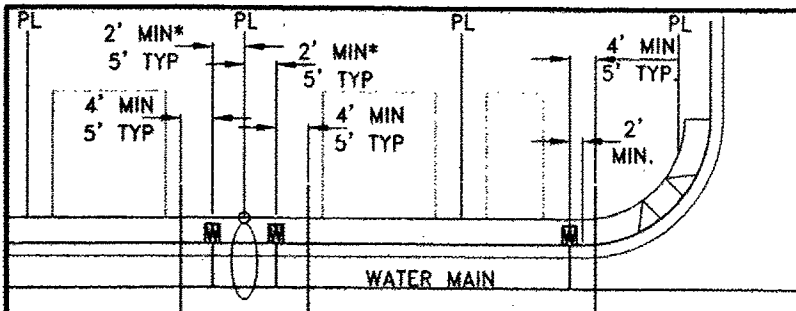
UTILITY LOCATIONS SHOWN HEREON ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO DETERMINE THE EXACT HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING UNDERGROUND OR OVERHEAD UTILITIES PRIOR TO COMMENCING CONSTRUCTION. NO REPRESENTATION IS MADE THAT ALL EXISTING UTILITIES ARE SHOWN HEREON. 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 Hitting Underground
Traffic Signal Systems
and Street Light System
Conduits It's Costly
CALL BEFORE
YOU DO
UNDERGROUND

**Call before you
UnderGround**

1-702-455-6000
CLARK COUNTY TRAFFIC OPERATIONS
AND
1-702-432-5300
LAS VEGAS AREA COMPUTERIZED TRAFFIC SYSTEM



*MINIMUM SEPARATION OF 5-FEET REQUIRED FROM STREET LIGHT CENTER TO WATER METER BOX CENTER. REFER TO DETAIL 5 SHEET U-3 FOR SEWER AND WATER CROSSING DETAIL.

TYPE OF CONSTRUCTION:	V-B
TOTAL LIVING AREA:	< 5,000 S.F.
TOTAL SF UNDER ROOF:	< 6,000 S.F.
NUMBER OF STORIES:	2
BUILDING USE:	SINGLE FAMILY RESIDENTIAL
SPRINKLERED:	NO
NUMBER OF FIRE HYDRANTS:	3
FIRE FLOW:	2000 GPM AT 20 PSI RESIDUAL

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

31 ERU (31 LOTS) * 250 GPD = 0.00775 MGD
= 0.00775 * 3.5 = 0.02712 MGD PEAK
DESIGN FLOW (25% WET WEATHER ALLOWANCE)
DESIGN FLOW 0.02712 + 25% = 0.034 MGD

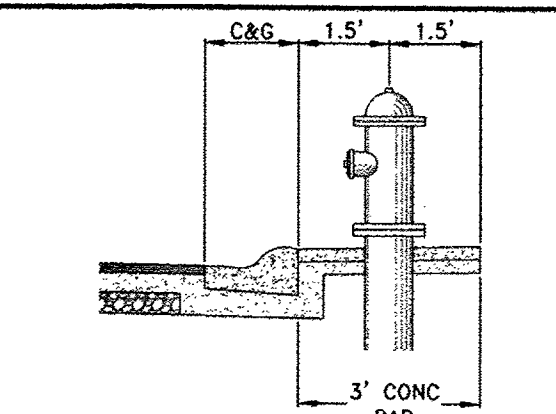
1. ADJUST WATER VALVE BOXES TO FINISH GRADE PER UDACS PLATE NO. 39. VALVES SHALL BE ACCESSIBLE AT ALL TIMES.
2. ALL SEWER/STORM DRAINS CROSSING WATERLINES MUST CONFORM TO SECTION 2.22 OF UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR POTABLE WATER SYSTEMS (UDACS) FOR WATER AND STORM MAIN CROSSING AND 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.

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

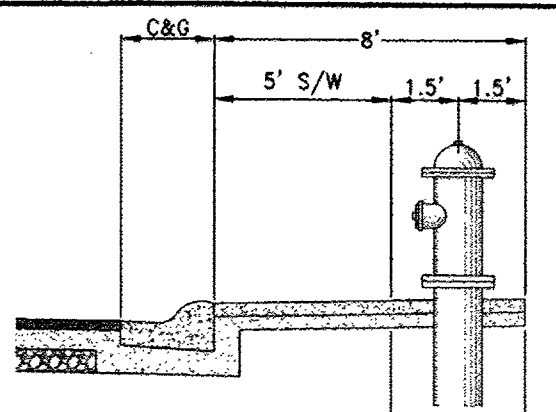
FOR CHANGES IN DIRECTION EXCEEDING THE MAXIMUM ALLOWABLE JOINT DEFLECTION, FITTINGS SHALL BE USED.

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

APPROVED REDUCED PRESSURE PRINCIPAL ASSEMBLIES SHALL BE INSTALLED PER THE UDACS PLATE NO. 8. NO WATER SHALL BE TAKEN FROM A SERVICE REQUIRING BACKFLOW PREVENTION UNTIL THE REDUCED PRESSURE PRINCIPAL ASSEMBLY HAS BEEN SUCCESSFULLY TESTED BY THE LVVWD. ANY BLOCK WALL OR OTHER FENCE MATERIAL SHALL BE DESIGNED AND CONSTRUCTED AROUND THE OUTSIDE OF THE EASEMENT TO ALLOW THE DIRECT ACCESS FROM THE ADJACENT RIGHT-OF-WAY. EASEMENT SHALL BE CLEARLY MARKED OR STAKED PRIOR TO THE START OF CONSTRUCTION.



A horizontal line with a segment labeled "C&G" and a segment labeled "8'".



1. THESE LOTS RESIDES WITHIN THE 3090 WATER ZONE. THEREFORE ALL LOTS WITH A FINISH FLOOR ELEVATION LESS THAN 2905.38 WILL REQUIRE AN INDIVIDUAL ON SITE (PRIVATE) PRESSURE REDUCING VALVE.
2. THIS PROPERTY FOR LOTS 4-21 HAS STATIC WATER PRESSURE IN EXCESS OF 80 PSI. THEREFORE THE LOTS WITHIN THIS PROJECT REQUIRE PRESSURE REDUCING VALVES. THE UNIFORM PLUMBING CODE REQUIRES THAT INDIVIDUAL ON SITE PRESSURE REDUCING VALVES BE INSTALLED WHENEVER THE WATER PRESSURE EXCEEDS 80 PSI. PRV'S ARE THE DEVELOPER'S RESPONSIBILITY AND WILL NOT BE INSPECTED OR INCLUDED IN THE ACCEPTANCE OF LVVWD FACILITIES. EASEMENTS SHALL BE CLEARLY MARKED OR STAKED PRIOR TO THE START OF CONSTRUCTION.

1. THESE LOTS RESIDES WITHIN THE 2795 WATER ZONE. THEREFORE ALL LOTS WITH A FINISH FLOOR ELEVATION LESS THAN 2779.38 WILL REQUIRE AN INDIVIDUAL ON SITE (PRIVATE) PRESSURE REDUCING VALVE.
2. THIS PROPERTY FOR LOTS 1-3 & 22-31 DOES NOT HAVE STATIC WATER PRESSURE IN EXCESS OF 80 PSI. THEREFORE THE LOTS WITHIN THIS PROJECT DO NOT REQUIRE ANY PRESSURE REDUCING VALVES. THE UNIFORM PLUMBING CODES REQUIRE THAT AN INDIVIDUAL ON SITE (PRIVATE) PRESSURE REDUCING VALVES BE INSTALLED WHENEVER THE PRESSURE EXCEEDS 80 PSI. RWS ARE THE DEVELOPER'S RESPONSIBILITY AND WILL NOT BE INSPECTED OR INCLUDED IN THE ACCEPTANCE OF LJVWD FACILITIES. EASEMENTS SHALL BE CLEARLY MARKED OR STAKED PRIOR TO THE START OF CONSTRUCTION.

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: 4-29685 DATE: 1/21/14

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 LVVMD.

FIRE FLOW 2000 GPM AT 20 PSI RESIDUAL

1. Discharge
LAS VEGAS VALLEY WATER DISTRICT FIRE FIGHTING SERVICES MANAGER
DATE: 2/2/15 PROJECT# 122285
LVVWD APPROVED FIRE FLOW 2000 GPM AT 20 PSI RESIDUAL

21 INSTALL 4" STANDARD MANHOLE (PER DCSWCS STD. No. SD-1A, SD-4A, SD-5 & SD-6)

22 (TYP) INSTALL 4" SEWER LATERAL (PER DCSWCS STD No. SD-17, SD-22 & SD-25)

23 TYPICAL LOCATION FOR SEWER LATERAL AT WATER MAIN CROSSING. ALL SEWER LATERALS MUST MAINTAIN 18" VERTICAL CLEARANCE BELOW WATER MAIN AT CROSSINGS.

CITY OF LAS VEGAS BENCHMARK 6LV99 25N4

A RIVET AND PLATE IN THE TOP OF CURB AT THE SOUTHEAST CORNER OF CENTENNIAL PARKWAY AND ALPINE RIDGE WAY.

ELEVATION=870.547 METERS (NAVD'88)
ELEVATION=2856.12 US SURVEY FEET (NAVD'88)

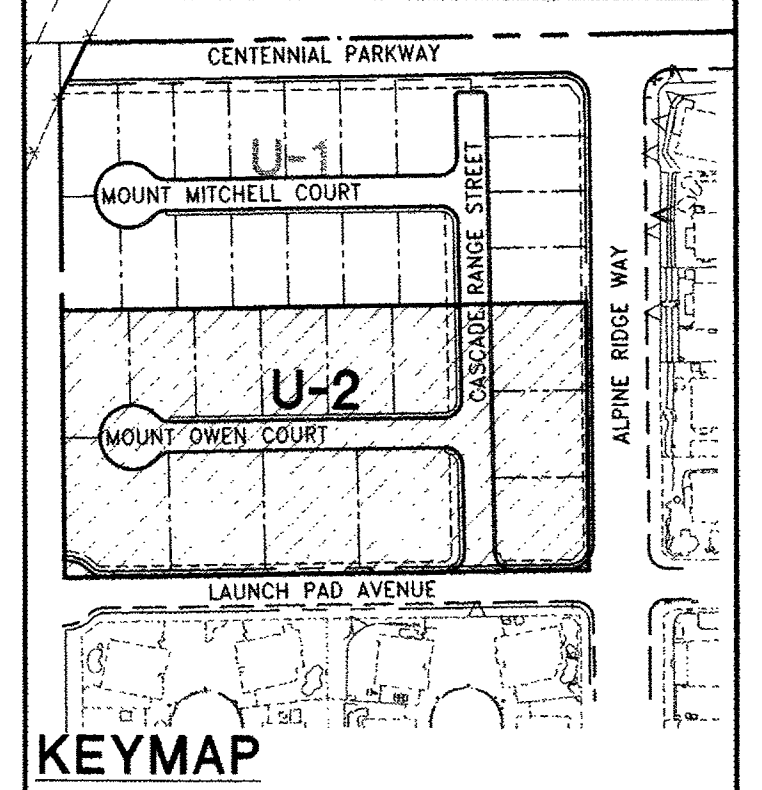
NORTH 00°30'49" WEST BEING THE BEARING OF THE WEST LINE OF THE NORTHEAST QUARTER (NE 1/4) OF THE NORTHWEST QUARTER (NW 1/4) OF SECTION 25, TOWNSHIP 19 SOUTH, RANGE 59 EAST, M.D.M., CLARK COUNTY, NEVADA AS SHOWN BY MAP THEREOF ON FILE IN THE CLARK COUNTY RECORDER'S OFFICE IN FILE 89, PAGE 3 OF SURVEYS.

(BWV) ALL LOTS WITH THIS SYMBOL REQUIRE A BACKWATER VALVE

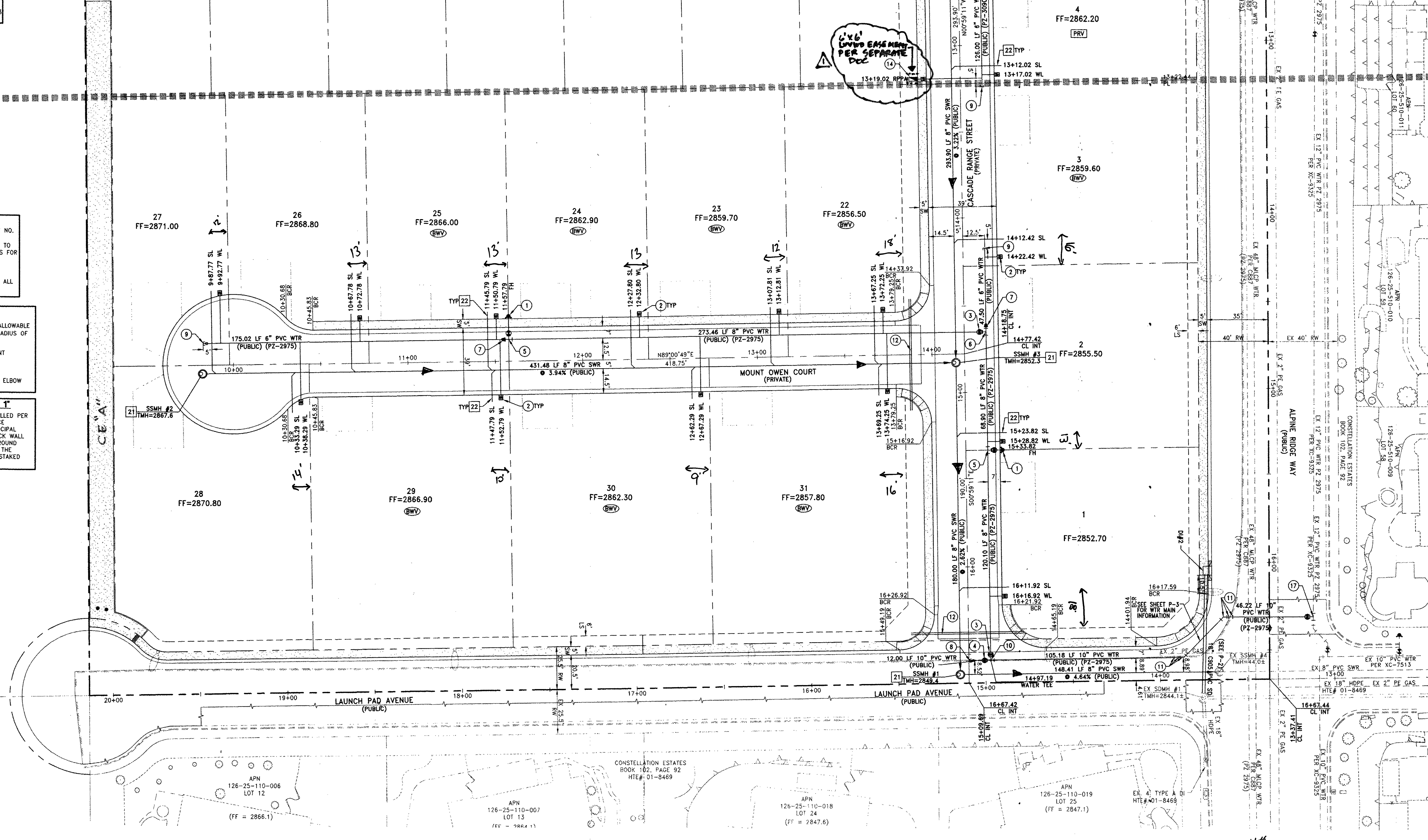
PRV ALL LOTS WITH THIS SYMBOL REQUIRE
A PRESSURE REDUCING VALVE

SERVICE LATERALS FOR LOTS: 6 AND 7
WILL BE TAPPED ON EXISTING MAIN BY OWNER'S
CONTRACTOR UNDER DIRECTION OF THE LVVWD.

- 1 INSTALL FIRE HYDRANT ASSEMBLY PER UDACS PLATE No. 39 & 40 (INCLUDES 6" GATE VALVE)
- 2 INSTALL 1" COPPER SERVICE LATERAL WITH 3/4" WATER METER PER UDACS PLATE No. 30
- 3 INSTALL 8" 8' GATE VALVE PER UDACS PLATE No. 30 & No. 39
- 4 INSTALL 10" GATE VALVE PER UDACS PLATE No. 30 & No. 39
- 5 INSTALL 8" x 6" TEE PER UDACS PLATE No. 31
- 6 INSTALL 8" x 8" TEE PER UDACS PLATE No. 31
- 7 INSTALL 8" x 6" REDUCER PER UDACS PLATE No. 30
- 8 INSTALL 10" CAP WITH 2" BLOW OFF ASSEMBLY PER UDACS PLATE No. 36
- 9 INSTALL 6" CAP WITH 2" BLOW OFF ASSEMBLY PER UDACS PLATE No. 36
- 10 INSTALL 10" x 8" TEE PER UDACS PLATE No. 31
- 11 INSTALL 10" 45' BEND PER UDACS PLATE No. 31
- 12 INSTALL (2) 4" SCHEDULE 40 PVC IRRIGATION SLEEVES
- 13 RELOCATE ANODE TEST STATIONS PER DETAILS ON SHEET U-3
- 14 INSTALL 1" COPPER SERVICE LATERAL WITH 3/4" WATER METER (FOR IRRIGATION) WITH 1" RPPA PER UDACS PLATE No. 34 & 8 (1" 3" BEND WATERLINE BETWEEN METER AND RPPA)
- 15 REMOVE EXISTING 8" CAP AND 2" BLOWOFF AND CONNECT TO EXISTING 8" WATER MAIN
- 16 REMOVE EXISTING 6" CAP AND CONNECT TO EXISTING 6" WATER MAIN
- 17 INSTALL 12" x 10" TAPPING SLEEVE W/10" TAPPING VALVE PER UDACS PLATE No. 34 & 39 AND SECT. 2.24.01
- 18 ADJUST EXISTING TEST STATION TO GRADE



MATCHLINE SEE U-1



CENTENNIAL AND ALPINE
A SINGLE FAMILY RESIDENTIAL SUBDIVISION
UTILITY PLAN
(SHEET 2 OF 3)

CLARK COUNTY NEVADA



1-19-15

DRAWING

U-2

SHEET 9 OF 18

14-23516

LENNAR
2480 PASO VERDE PARKWAY SUITE 120 HENDERSON, NV 89074
PHONE: (702) 736-9100 FAX: (702) 736-9200

RCI Engineering
4325 Dean Martin Drive, Suite 300, Las Vegas, NV 89103
PHONE: 702.453.0800 FAX: 702.453.0801

HORIZ. SCALE:	1"=30'
VERT. SCALE:	N/A
DRAWN BY:	MJD
DESIGNED BY:	AW
CHECKED BY:	CZ
APPROVED BY:	CZ
PROJECT #:	3040.0035.

ADDED RPA EASEMENT

DATE: 8/11/19

\\3040_LENR\0035_Centennial and Alpine\CIVIL\IPS\S006_U01.dwg czrinyi 1/18/15 3:05pm