

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. If a costly, call before you dig. Call before you dig. 1-702-227-2929. Nevada Power. Environment and Safety Services Department. 1-800-227-2600. CLARK COUNTY UTILITIES DEPARTMENT. 1-702-455-7544.

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.

REDUCED PRESSURE PRINCIPLE ASSEMBLY (1) 1"

APPROVED REDUCED PRESSURE PRINCIPLE 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 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 TO ALLOW THE DIRECT ACCESS FROM THE ADJACENT RIGHT-OF-WAY. EASEMENT SHALL BE CLEARLY MARKED OR STAKED PRIOR TO THE START OF CONSTRUCTION.

WATER NOTE FOR ALL LOTS

1. THIS PROJECT RESIDES WITHIN THE 3550 WATER ZONE. THEREFORE ALL LOTS WITH A FINISH FLOOR ELEVATION LESS THAN 3365.39 WILL REQUIRE AN INDIVIDUAL, ON-SITE (PRIVATE) PRESSURE REDUCING VALVE.
2. THIS PROPERTY HAS 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 LVWD FACILITIES.

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

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.

UTILITY LATERAL NOTE:

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

BACKWATER VALVE

PRV ALL LOTS WITH THIS SYMBOL REQUIRE A BACKWATER VALVE

PRESSURE REDUCING VALVE

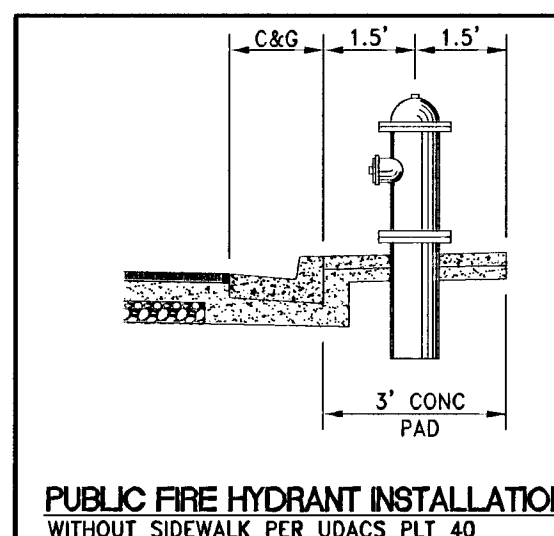
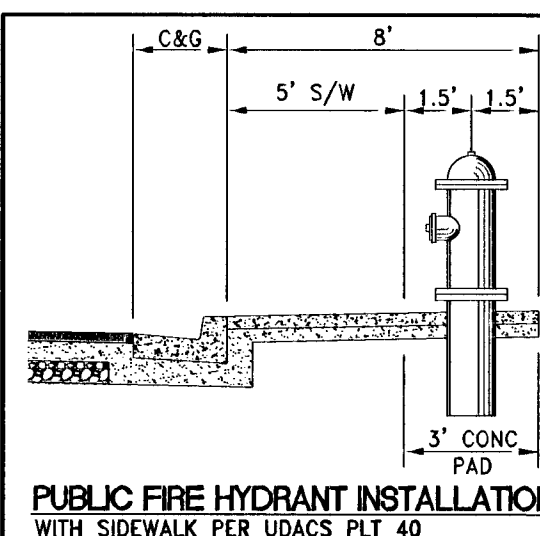
PRV ALL LOTS WITH THIS SYMBOL REQUIRE A PRESSURE REDUCING VALVE

WASTEWATER FLOW CALCULATION

CALCULATIONS:
UNIT 1 = 53 ERU (53 LOTS) * 250 GPD = 0.0133 MGD
= 0.0133 * 3.5 = 0.0466 MGD PEAK

FIRE FLOW INFORMATION

TYPE OF CONSTRUCTION: V-B
TOTAL LIVING AREA: < 4,800 S.F.
TOTAL SF UNDER ROOF: < 4,800 S.F.
NUMBER OF STORIES: 2
BUILDING USE: SINGLE FAMILY RESIDENTIAL
SPRINKLERED: NO
NUMBER OF FIRE HYDRANTS: NO
FIRE FLOW: 1,750 GPM AT 20 PSI RESIDUAL

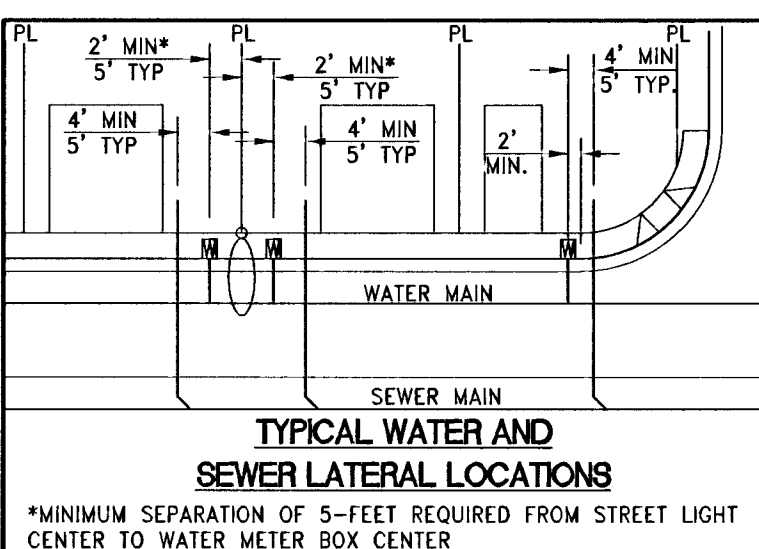


LINE TABLE

LINE	BEARING	LENGTH
L1	N 53°51'57" E	177.61'
L3	S 31°38'17" E	91.96'
L5	S 38°55'45" E	73.04'
L7	N 64°47'41" E	191.12'

CURVE TABLE

CURVE	DELTA	RADIUS	LENGTH	TANGENT
C1	29°18'31"	250.00'	127.74'	65.30'
C2	40°3'42"	245.00'	171.31'	89.32'
C3	59°45'0"	125.00'	130.35'	71.81'
C4	4°15'0"	500.00'	37.09'	18.55'
C10	40°3'38"	89.50'	62.58'	32.63'
C11	7°59'48"	200.00'	27.91'	13.98'
C12	21°0'18"	200.00'	73.32'	37.08'

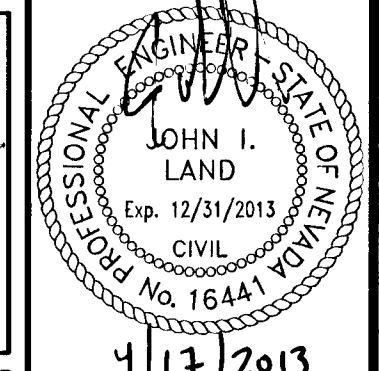


CITY OF LAS VEGAS FIRE DEPARTMENT APPROVAL

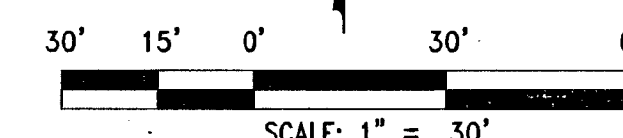
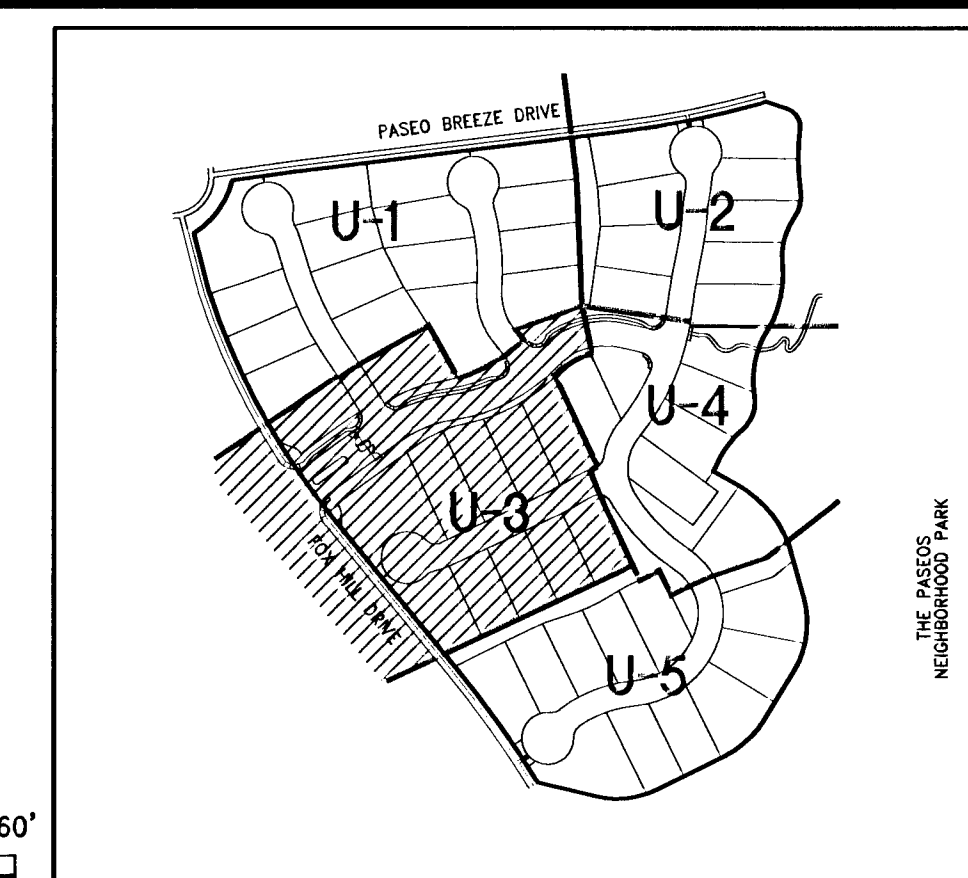
APPROVAL OF THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR OR ANY APPROVAL OF ANY VIOLATION OF ANY OF THE PROVISIONS OF THE STATE OR COUNTY LAWS.
FIRE FLOW 1,750 GPM AT 20 PSI RESIDUAL

APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES MANAGER
DATE: 04/26/13 PROJECT# 121254
LVWD APPROVED FIRE FLOW 1,750 GPM AT 20 PSI RESIDUAL



DATE: 4/17/13
DRAWING: U-3
SHEET 27 OF 39
CLV DRAWING NUMBER: 1074984



BENCHMARK
CITY OF LAS VEGAS BENCHMARK No. 7LV09 3404
A DRIVE AND PLATE IN THE TOP OF CURB AT THE NORTHEAST CORNER OF PASCO MIST DR AND DESERT MOON DR.
ELEVATION=997.024 METERS (NAVD'88)
ELEVATION=3271.07 US SURVEY FEET (NAVD'88)

BASIS OF BEARINGS
SOUTH 83°00'00" WEST BEING THE BEARING OF THE CENTERLINE OF PASCO BREEZE DRIVE AS SHOWN BY MAP THEREOF ON FILE IN THE CLARK COUNTY RECORDER'S OFFICE IN BOOK 121, PAGE 12 OF PLATS

SEWER CONSTRUCTION NOTES

- INSTALL 48" STANDARD MANHOLE (PER DCSWCS STD. NO. SD-1A, SD-4, SD-5 & SD-6)
- INSTALL 4" SEWER LATERAL (PER DCSWCS STD. NO. SD-17, SD-22 & SD-25) AND 1 CU-FT THRUST BLOCK @ CAP
- ABANDON EXISTING 8" SEWER MAIN PER DCSWCS 3.18.1
- ABANDON EXISTING 48" SEWER MANHOLE PER DCSWCS
- INSTALL 48" STANDARD MANHOLE WITH CORROSION PROTECTION (PER DCSWCS STD. NO. SD-1A, SD-4, SD-5, SD-6 & CSWCS 2.2.10.1.2)

WATER CONSTRUCTION NOTES

- INSTALL FIRE HYDRANT ASSEMBLY PER UDACS PLATE NO. 40 (INCLUDES 6" GATE VALVE)
- INSTALL 8" x 8" TAPPING SLEEVE WITH 8" TAPPING VALVE PER UDACS PLATE Nos. 34, 38 AND UDACS 2.2.01A
- INSTALL 8" x 8" TEE PER UDACS PLATE NO. 31
- INSTALL 8" 45° BEND PER UDACS PLATE NO. 31
- INSTALL 8" 22.5° BEND PER UDACS PLATE NO. 31
- INSTALL 8" 11.25° BEND PER UDACS PLATE NO. 31
- INSTALL 8" 5° BEND WITH RESTRAINED JOINTS
- INSTALL 8" GATE VALVE PER UDACS PLATE NO. 30 & No. 39
- INSTALL 8" x 6" TEE PER UDACS PLATE NO. 31
- INSTALL 8" x 6" REDUCER PER UDACS PLATE NO. 30
- INSTALL 8" 11.25° BEND PER UDACS PLATE NO. 31
- INSTALL (2) 4" SCHEDULE 40 PVC IRRIGATION SLEEVES
- INSTALL (4) 4" SCHEDULE 40 PVC IRRIGATION SLEEVES
- OPEN GATE VALVE AFTER ISOLATION OF 3435 PRESSURE ZONE IS COMPLETED PER NOTE 18 BELOW.
- INSTALL 6" CAP WITH 2" BLOW OFF ASSEMBLY PER UDACS PLATE No. 36
- INSTALL 1" COPPER SERVICE LATERAL WITH 3/4" METER PER UDACS PLATE No. 4 (INSTALL PER UNIMPROVED LOCATION)
- 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)
- PRIOR TO CONNECTIONS TO THE EXISTING WATER MAIN IN FOX HILL DRIVE, GATE VALVES AND CONNECTOR PIPE BETWEEN WATER PRESSURE ZONES TO BE ABANDONED PER THE NOTE ON XC-9976 SHEET 8A WHICH ISOLATES THE 3435 PRESSURE ZONE.
- INSTALL 8" 22.5° BEND PER UDACS PLATE NO. 31

TOLL BROTHERS INC.
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RCI Engineering
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PHONE: 702.453.0800 FAX: 702.453.0801
NEVADA

IMPROVEMENT PLANS FOR
SANTALUZ AT SUMMERLIN VILLAGE 23A
PARCELS ES-1 AND WS-1
UTILITY PLAN (SHEET 3 OF 5)
CITY OF LAS VEGAS

DATE: APRIL 17, 2013
HORIZ. SCALE: 1"=30'
VERT. SCALE: N/A
DRAWN BY: AW
CHECKED BY: JLL
APPROVED BY: JLL
PROJECT #: 121254