

DISCLAIMER NOTE

WHY LOCATION SHOWN HEREON ARE APPROXIMATE ONLY. THE CONTRACTOR IS RESPONSIBLE TO DETERMINE THE EXACT LOCATION AND DEPTH OF ALL UTILITIES UNDERGROUND OR OVERHEAD UTILITIES TO BE CONSTRUCTED. NO REPRESENTATION IS MADE THAT ALL EXISTING UTILITIES ARE SHOWN HEREON. THE CONTRACTOR ASSUMES NO RESPONSIBILITY FOR UTILITIES NOT SHOWN OR UTILITIES NOT SHOWN IN THEIR PROPER LOCATION OR DEPTH. THE CONTRACTOR ASSUMES NO RESPONSIBILITY FOR UTILITIES NOT SHOWN OR UTILITIES NOT SHOWN IN THEIR PROPER LOCATION OR DEPTH.

Call before you dig
1-800-4-A-DIG
1-800-427-2800
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EXISTING UTILITY NOTES
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 INACCURATELY OR OTHERWISE NOT SHOWN.

REDUCED PRESSURE PRINCIPLE ASSEMBLY (U)
APPROVED REDUCED PRESSURE PRINCIPLE ASSEMBLY SHALL BE INSTALLED FOR THE UOAS PLATE NO. 1. NO WATER SHALL BE TAKEN FROM A SERVICE CONNECTION BACKFLOW PREVENTION UNTIL THE REDUCED PRESSURE PRINCIPLE ASSEMBLY HAS BEEN SUCCESSFULLY TESTED BY THE LJVWD MAY BE USED FOR OTHER PURPOSES. MATERIALS SHALL BE DESIGNED AND CONSTRUCTED TO WITHSTAND THE PRESSURE OF THE SYSTEM TO ALLOW THE OVERSIGHT FROM THE ADJACENT SIDE-OF-WAY EASEMENT SHALL BE CLEARLY MARKED ON STORM PRIOR TO THE START OF CONSTRUCTION.

WATER MAIN FOR ALL LOTS
1. TWO FOOTED DEPTH WITHIN TWO (2) FEET OF THE WATER MAIN. THEREFORE, ALL LOTS WITH A FINISH FLOOR ELEVATION LESS THAN 3363.33 WILL REQUIRE AN INDIVIDUAL, ON SITE (PRIVATE) PRESSURE REDUCING VALVE.
2. THE PROPERTY HAS STAIN 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. THE CONTRACTOR'S RESPONSIBILITY AND WILL NOT BE DEPENDENT OR INCLUDED IN THE ACCEPTANCE OF LJVWD FACILITIES.

WATER MAIN JOINT DEFLECTION (UVC 4-247)
PVC PIPE SHALL BE DEFLECTED AT THE JOINT ONLY. THE MAXIMUM ALLOWABLE DEFLECTION SHALL BE ONE (1) INCH PER JOINT WITH A MINIMUM RADIUS OF CURVATURE OF 1,100 FEET FOR JOINTS 2.07 FT AND 2.07 FT.
FOR CHANGES OF DIRECTION EXCEEDING THE MAXIMUM ALLOWABLE JOINT DEFLECTION, FITTINGS SHALL BE USED.

NOTES
1. INSTALL FLOWING WATER MAINS IN TRENCH ABOVE EACH HORIZONTAL FLOW FITTING PER UOAS PLATE NO. 1.
2. ALL WATER MAINS SHALL BE INSTALLED TO THE GRADE PER UOAS PLATE NO. 1.
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UTILITY LATERAL NOTE
1. WATER AND SEWER LATERAL LOCATIONS SHOWN ON THIS PLAN SET ARE CALCULATED AT THE BACK OF CURB.
2. ALL LOTS WITH THIS SYMBOL REQUIRE A BACKWATER VALVE.
3. ALL LOTS WITH THIS SYMBOL REQUIRE A PRESSURE REDUCING VALVE.

BACKWATER VALVE
ALL LOTS WITH THIS SYMBOL REQUIRE A BACKWATER VALVE.
PRESSURE REDUCING VALVE
ALL LOTS WITH THIS SYMBOL REQUIRE A PRESSURE REDUCING VALVE.

WASTEWATER FLOW CALCULATION
CALCULATIONS:
UNIT 1 = 53 LRU (53 LRU) * 250 GPD = 0.0133 MGD
= 0.0133 * 3.5 = 0.0468 MGD PERM

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: 1250 GPM AT 20 PSI RESIDUAL
FIRE FLOW: 1250 GPM AT 20 PSI RESIDUAL

PUBLIC FIRE HYDRANT INSTALLATION
WITH SIDEWALK PER UOAS PLT 10
PUBLIC FIRE HYDRANT INSTALLATION
WITHOUT SIDEWALK PER UOAS PLT 40

SEWER CONSTRUCTION NOTES
1. INSTALL 18" STANDARD MANHOLE PER DCSWCS STD. NO. 50-4, 50-5 & 50-6.
2. INSTALL 4" SEWER LATERAL PER DCSWCS STD. NO. 50-22 & 50-25 AND 1 CU-FT THRU BLOCK.
3. ABANDON EXISTING 8" SEWER MAIN PER DCSWCS 3.18.1.
4. ABANDON EXISTING 48" SEWER MANHOLE PER DCSWCS 3.18.2.
5. INSTALL 48" STANDARD MANHOLE WITH CORROSION PROTECTION PER DCSWCS STD. NO. 50-1A, 50-4, 50-5, 50-6 & DCSWCS 2.2.10.1.2.

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2. INSTALL 8" X 8" TAPPING SLEEVE WITH 8" TAPPING VALVE PER UOAS PLATE NO. 34, 39 AND UOAS 2.24.01A.
3. INSTALL 8" X 8" TEE PER UOAS PLATE NO. 31.
4. INSTALL 8" 45° BEND PER UOAS PLATE NO. 31.
5. INSTALL 8" 22.5° BEND PER UOAS PLATE NO. 31.
6. INSTALL 8" 11.25° BEND PER UOAS PLATE NO. 31.
7. INSTALL 8" 9° BEND WITH RESTRAINED JOINTS.
8. INSTALL 8" GATE VALVE PER UOAS PLATE NO. 30 & No. 39.
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12. INSTALL (2) 4" SCHEDULE 40 PVC IRRIGATION SLEEVES.
13. INSTALL (4) 4" SCHEDULE 40 PVC IRRIGATION SLEEVES.
14. OPEN GATE VALVE AFTER ISOLATION OF 3435 PRESSURE ZONE IS COMPLETED PER NOTE 15 BELOW.
15. INSTALL 8" CAP WITH 2" BLOW OFF ASSEMBLY PER UOAS PLATE NO. 30.
16. INSTALL 1" COPPER SERVICE LATERAL WITH 3/4" METER PER UOAS PLATE NO. 4 (INSTALL PER UNIMPROVED LOCATION).
17. INSTALL 1" COPPER SERVICE LATERAL WITH 3/4" WATER METER (FOR IRRIGATION) WITH 1" RPPA PER UOAS PLATE NO. 4 & 8 (1" BRASS WATERLINE BETWEEN METER AND RPPA).
18. 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 20-3078 SHEET 3A WHICH ISOLATES THE 3435 PRESSURE ZONE.
19. INSTALL 8" 22.5° BEND PER UOAS PLATE NO. 31.

TYPICAL WATER AND SEWER LATERAL LOCATIONS
MINIMUM SEPARATION OF 5-Feet REQUIRED FROM STREET LIGHT CENTER TO WATER METER BOX CENTER

CITY OF LAS VEGAS FIRE DEPARTMENT APPROVAL
BY: *[Signature]* DATE: 11/17/2013
APPROVAL OF THESE PLANS SHALL NOT BE A PERMIT FOR OR ANY APPROVAL OF ANY VIOLATION OF ANY OF THE PROVISIONS OF THE STATE OR COUNTY LAWS.
FIRE FLOW 1,250 GPM AT 20 PSI RESIDUAL

APPROVED FOR CONSTRUCTION
BY: *[Signature]* DATE: 02/12/13
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES MANAGER
PROJECT: 121254
LJVWD APPROVED FIRE FLOW 1,250 GPM AT 20 PSI RESIDUAL

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

U-3
SHT 27 OF 39
CLY DRAWING NUMBER
10714981
CLY PROJECT NUMBER 10714981

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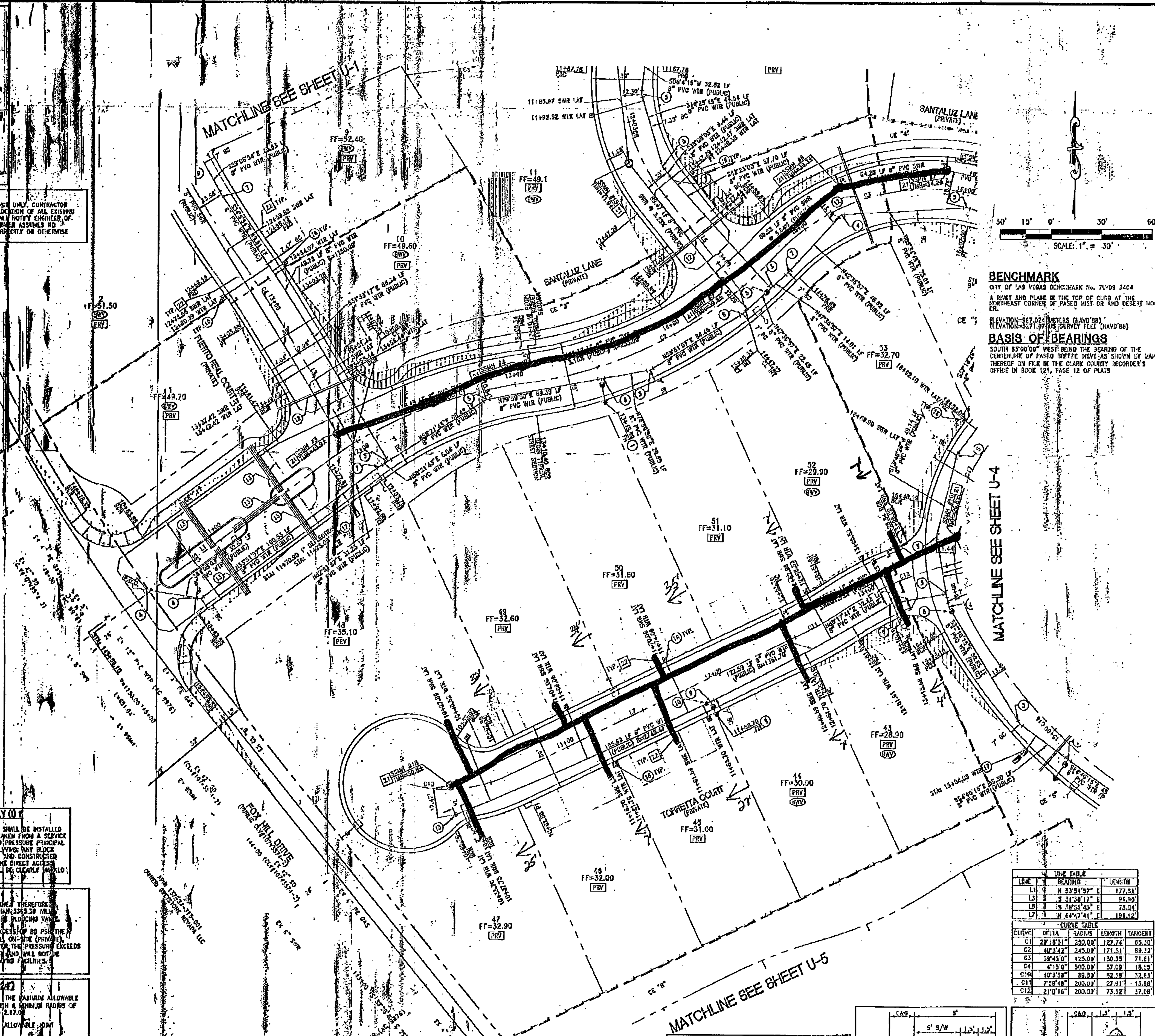
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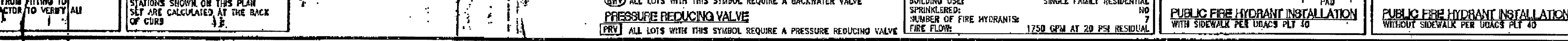
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UTILITY PLAN (SHEET 3 OF 5)
SANTALUZ AT SUMMERLIN VILLAGE 23A
PARCELS ES-1 AND WS-1
CITY OF LAS VEGAS



LINE	BEARING	LENGTH
L1	N 89°51'59" E	177.51'
L2	S 31°38'17" E	91.98'
L3	S 28°55'45" E	73.04'
L4	N 68°47'41" E	191.12'

CURVE	DELTA	RADIUS	LENGTH	TANGENT
C1	27°18'31"	250.00'	127.74'	85.10'
C2	40°34'42"	245.00'	121.51'	89.12'
C3	58°48'00"	125.00'	130.33'	71.61'
C4	41°19'00"	500.00'	37.09'	18.29'
C10	40°33'38"	89.20'	82.38'	32.63'
C11	73°58'48"	250.00'	27.91'	13.08'
C12	21°01'18"	200.00'	15.72'	37.68'



BENCHMARK
CITY OF LAS VEGAS BENCHMARK NO. 7LV08 3404
A BURY AND PLATE IN THE TOP OF CURB AT THE
NORTHEAST CORNER OF PASEO MIST AND DESERT MOON
DR.
ELEVATION=897.02 METERS (NAVD'83)
ELEVATION=3271.57 US SURVEY FEET (NAVD'83)
BASIS OF BEARINGS
SOUTH 89°00'00" WEST BEING THE BEARING OF THE
CENTERLINE OF PASEO BREEZE DRIVE AS SHOWN BY MAP
THEREOF ON FILE IN THE CLARK COUNTY RECORDER'S
OFFICE IN BOOK 127, PAGE 12 OF PLATS

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8. INSTALL 8" GATE VALVE PER UOAS PLATE NO. 30 & No. 39.
9. INSTALL 8" X 8" TEE PER UOAS PLATE NO. 31.
10. INSTALL 8" X 8" REDUCER PER UOAS PLATE NO. 30.
11. INSTALL 8" 11.25° BEND PER UOAS PLATE NO. 31.
12. INSTALL (2) 4" SCHEDULE 40 PVC IRRIGATION SLEEVES.
13. INSTALL (4) 4" SCHEDULE 40 PVC IRRIGATION SLEEVES.
14. OPEN GATE VALVE AFTER ISOLATION OF 3435 PRESSURE ZONE IS COMPLETED PER NOTE 15 BELOW.
15. INSTALL 8" CAP WITH 2" BLOW OFF ASSEMBLY PER UOAS PLATE NO. 30.
16. INSTALL 1" COPPER SERVICE LATERAL WITH 3/4" METER PER UOAS PLATE NO. 4 (INSTALL PER UNIMPROVED LOCATION).
17. INSTALL 1" COPPER SERVICE LATERAL WITH 3/4" WATER METER (FOR IRRIGATION) WITH 1" RPPA PER UOAS PLATE NO. 4 & 8 (1" BRASS WATERLINE BETWEEN METER AND RPPA).
18. 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 20-3078 SHEET 3A WHICH ISOLATES THE 3435 PRESSURE ZONE.
19. INSTALL 8" 22.5° BEND PER UOAS PLATE NO. 31.

TYPICAL WATER AND SEWER LATERAL LOCATIONS
MINIMUM SEPARATION OF 5-Feet REQUIRED FROM STREET LIGHT CENTER TO WATER METER BOX CENTER

CITY OF LAS VEGAS FIRE DEPARTMENT APPROVAL
BY: *[Signature]* DATE: 11/17/2013
APPROVAL OF THESE PLANS SHALL NOT BE A PERMIT FOR OR ANY APPROVAL OF ANY VIOLATION OF ANY OF THE PROVISIONS OF THE STATE OR COUNTY LAWS.
FIRE FLOW 1,250 GPM AT 20 PSI RESIDUAL

APPROVED FOR CONSTRUCTION
BY: *[Signature]* DATE: 02/12/13
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES MANAGER
PROJECT: 121254
LJVWD APPROVED FIRE FLOW 1,250 GPM AT 20 PSI RESIDUAL

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

U-3
SHT 27 OF 39
CLY DRAWING NUMBER
10714981
CLY PROJECT NUMBER 10714981

SEWER CONSTRUCTION NOTES
1. INSTALL 18" STANDARD MANHOLE PER DCSWCS STD. NO. 50-4, 50-5 & 50-6.
2. INSTALL 4" SEWER LATERAL PER DCSWCS STD. NO. 50-22 & 50-25 AND 1 CU-FT THRU BLOCK.
3. ABANDON EXISTING 8" SEWER MAIN PER DCSWCS 3.18.1.
4. ABANDON EXISTING 48" SEWER MANHOLE PER DCSWCS 3.18.2.
5. INSTALL 48" STANDARD MANHOLE WITH CORROSION PROTECTION PER DCSWCS STD. NO. 50-1A, 50-4, 50-5, 50-6 & DCSWCS 2.2.10.1.2.

WATER CONSTRUCTION NOTES
1. INSTALL FIRE HYDRANT ASSEMBLY PER UOAS PLATE NO. 10 (INCLUDES 6" GATE VALVE).
2. INSTALL 8" X 8" TAPPING SLEEVE WITH 8" TAPPING VALVE PER UOAS PLATE NO. 34, 39 AND UOAS 2.24.01A.
3. INSTALL 8" X 8" TEE PER UOAS PLATE NO. 31.
4. INSTALL 8" 45° BEND PER UOAS PLATE NO. 31.
5. INSTALL 8" 22.5° BEND PER UOAS PLATE NO. 31.
6. INSTALL 8" 11.25° BEND PER UOAS PLATE NO. 31.
7. INSTALL 8" 9°