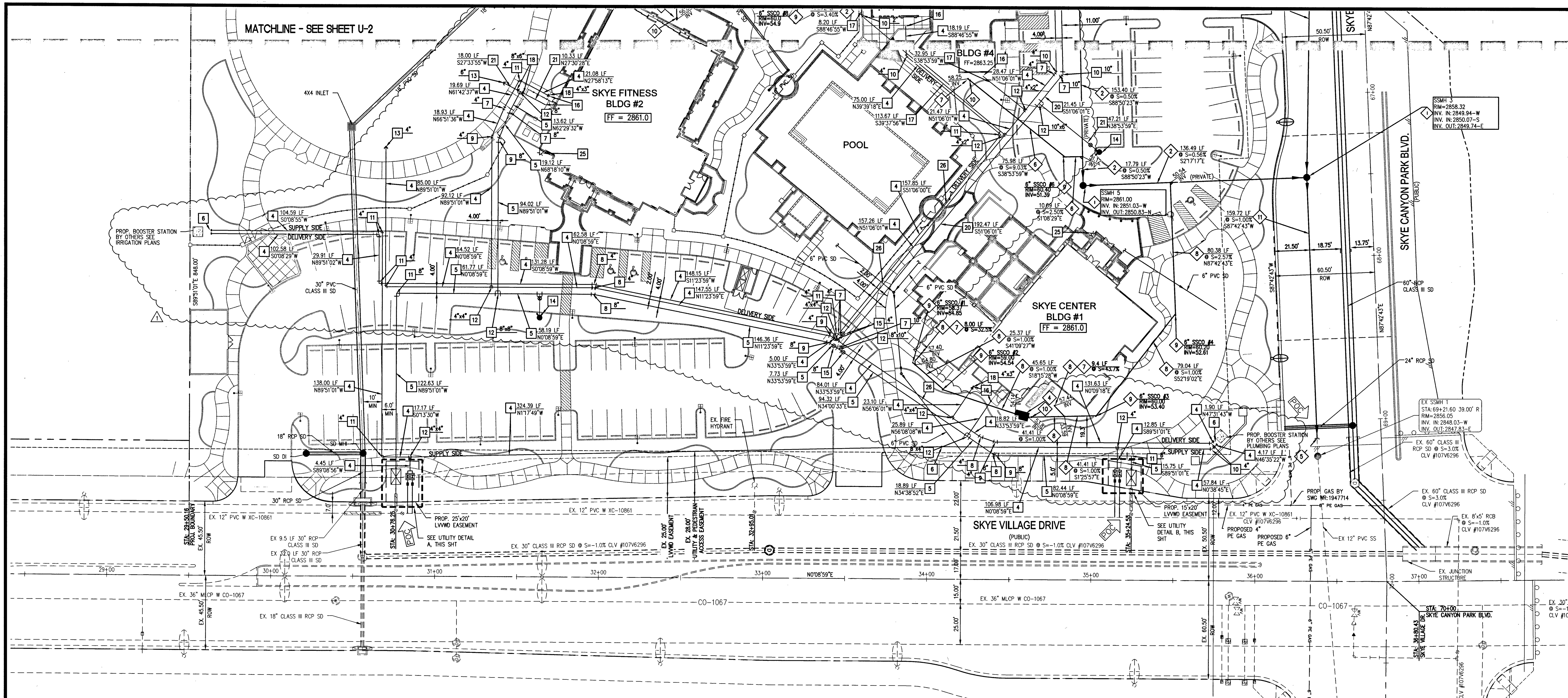
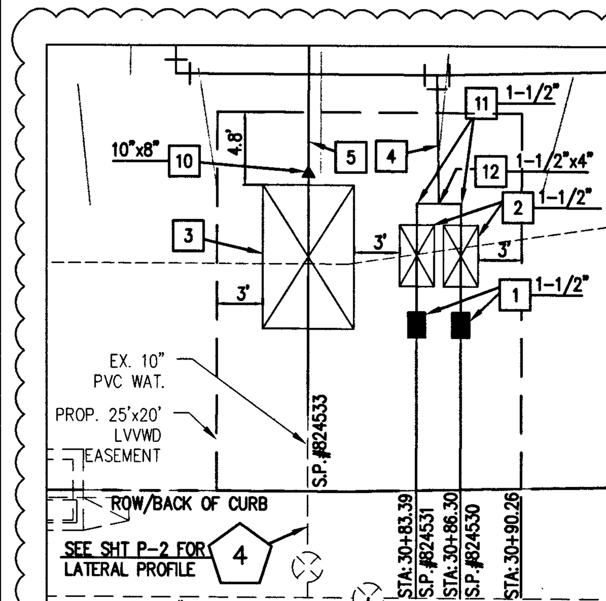
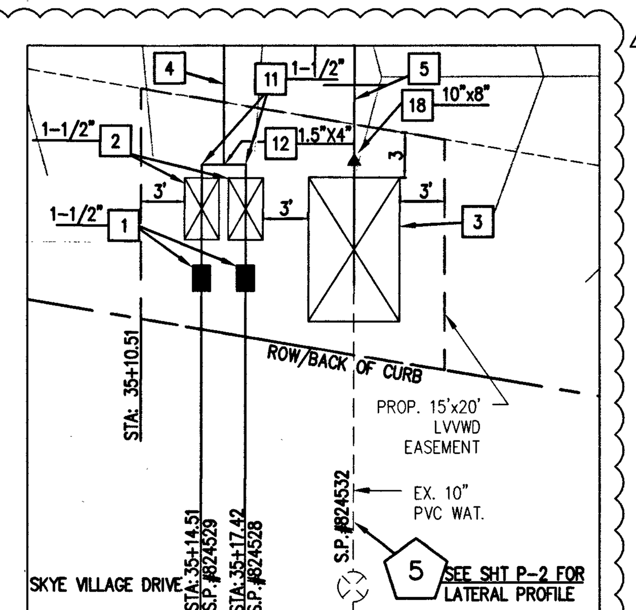




UTILITY DETAIL A
SCALE: 1"=10'



UTILITY DETAIL B
SCALE: 1"=10'

BOOSTER PUMP NOTE

THE BOOSTER PUMP WILL BE SIZED TO PROVIDE A MINIMUM OF 60 PSI AT THE POINT OF CONNECTION TO THE MOST REMOTE BUILDING. BOOSTER PUMP WILL BE DIFFERED SUBMITTAL.

NOTE

ALL ABOVE-GROUND UTILITY APPURTENANCES SHALL CONFORM TO THE REQUIREMENTS OF TITLE 19.06 & 19.08

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.

ALL SEWER/STORM DRAINS CROSSING WATER LINES MUST CONFORM TO SECTION 2.22 OF THE UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR POTABLE WATER SYSTEMS (UDACS) FOR WATER AND STORM MAIN CROSSINGS AND CLEARANCES.

WARNING FIRE LINE (NON-POTABLE WATER)
ALL EXISTING, RELOCATED OR PROPOSED DCDA/RPDA INSTALLATIONS:
"TO COMPLY WITH THE FEDERAL SAFE DRINKING WATER ACT, THE FIRE LINE, OR ANY OF ITS COMPONENTS, SHALL NOT BE USED FOR POTABLE DRINKING WATER AT ANY TIME."

EASEMENT WITH TREES, SHRUBS, DECORATIVE ROCKS, BLOCKWALL OR FENCE
TREES, SHRUBS OR DECORATIVE ROCKS AND ANY BLOCK WALL OR OTHER FENCE MATERIAL, SHALL BE DESIGNED AND CONSTRUCTED AROUND THE EASEMENT(S) TO ALLOW THE DISTRICT DIRECT ACCESS TO THE VAULT(S), BACKFLOW ASSEMBLIES AND PIPING FROM THE ADJACENT RIGHT-OF-WAY.

FIRE FLOW CALCULATIONS

FIRE FLOW REQUIREMENT IS 1,500 GALLONS PER MINUTE AT 20 P.S.I. RESIDUAL PRESSURE.

	BUILDING 1	BUILDING 2
USE/OCCUPANCY	ASMBLY A-3	ASMBLY A-3
TYPE OF CONSTRUCTION (IBC)	TYPE V-B	TYPE V-B
AUTOMATIC FIRE SPRINKLERS	YES	YES
SQUARE FOOTAGE	9,633 SF	8,142 SF
LARGEST AREA BETWEEN 4 HOUR WALLS	N/A	N/A
BUILDING HEIGHT	31'-2"	29'-4"
NO OF STORIES INCLUDING BASEMENT	1	1
HIGH PILED COMBUSTIBLE STORAGE	NO	NO
NO OF HYDRANTS INSTALLED	3	3

BASIS OF BEARING

NORTH 00°26'16" WEST BEING THE BEARING OF THE EAST LINE OF THE NORTHWEST QUARTER (NW 1/4) OF THE SOUTHEAST QUARTER (SE 1/4) OF SECTION 13, TOWNSHIP 19 SOUTH, RANGE 59 EAST, M.D.M., CITY OF LAS VEGAS, CLARK COUNTY, NEVADA AS SHOWN ON BY MAP THEREOF ON FILE IN THE CLARK COUNTY'S RECORDER'S OFFICE IN BOOK 118, PAGE 88 OF PLATS.

BENCHMARK

CITY OF LAS VEGAS BENCHMARK 6LV99 13C4

ELEVATION=900.071 METERS
ELEVATION=2952.98 U.S. SURVEY FEET

RIVET & PLATE TOP CURB NE CORNER FARM RD & (ALPINE RIDGE WAY) CRESCENT MTN

WATER NOTES

1. FIELD VERIFY LOCATION, AND CONNECT TO EXISTING WATER WITH NEW METER, SIZE PER PLAN, PER UDACS PLATE NO. 4
2. INSTALL RPPA, SIZE PER PLAN, PER UDACS PLATE NO. 8
3. INSTALL 10" RPDA (WATTS 909RPDA), PER UDACS PLATE NO. 59 AND PER LV TITLE 19.06/08 (UTILITY BOX INSTALLATIONS).
4. 4" C900 PVC WATER PIPE (3090 WPZ)
5. 8" C900 PVC WATER PIPE (3090 WPZ)
6. LESS THAN 1° PIPE DEFLECTION
7. 5 DEGREE BEND W/ RESTRAINED JOINTS, SIZE PER PLAN.
8. 11.25 DEGREE BEND, W/ THRUST BLOCKS PER UDACS PLATE NO. 31. SIZE PER PLAN.
9. 22.5 DEGREE BEND, W/ THRUST BLOCKS PER UDACS PLATE NO. 31. SIZE PER PLAN.
10. 45 DEGREE BEND, W/ THRUST BLOCKS PER UDACS PLATE NO. 31. SIZE PER PLAN.
11. 90 DEGREE BEND, W/ THRUST BLOCKS PER UDACS PLATE NO. 31. SIZE PER PLAN.
12. TEE, W/ THRUST BLOCKS PER UDACS PLATE NO. 31. SIZE PER PLAN.
13. CAP AND 2" BLOW-OFF VALVE PER UDACS PLATE NO. 36. SIZE PER PLAN.
14. FIRE HYDRANT ASSEMBLY W/6" GATE VALVE PER UDACS PLATE NO. 40
15. GATE VALVE WITH VALVE BOX PER UDACS PLATE NO. 30 & 39. SIZE PER PLAN.
16. SEE ARCHITECTURAL PLANS FOR CONNECTION TO BLDG.
17. 2" SCH. 40 PVC WATER PIPE (3090 WPZ)
18. REDUCER W/ THRUST BLOCKS PER UDACS PLATE NO 30, SIZE PER PLAN
19. 12" C900 PVC WATER PIPE (3090 WPZ)
20. 10" C900 PVC WATER PIPE (3090 WPZ)
21. 6" C900 PVC WATER PIPE (3090 WPZ)
22. INSTALL CAP WITH THRUST BLOCK PER UDACS PLATE NO. 36
23. CROSS, W/ THRUST BLOCKS PER UDACS PLATE NO. 31. SIZE PER PLAN.
24. 4" SCH. 40 PVC WATER PIPE (3090 WPZ)
25. PROPOSED FDC, SEE ARCHITECTURAL PLANS
26. CONTRACTOR TO MAINTAIN CROSSING SEPARATION BY JOINT TRENCHING, BURY DEPTH OR RELOCATION OF AREA DRAIN.

SEE SHEET C-2 FOR LEGEND, ABBREVIATIONS AND QUANTITIES

SEWER NOTES

1. INSTALL 48" DIAMETER SANITARY SEWER MANHOLE WITH PRECAST BASE PER DCWCS SD-1A
2. INSTALL 8" SDR35 PVC SANITARY SEWER PIPE
3. INSTALL SS CAP, SIZE PER PLAN
4. GREASE INTERCEPTOR, PER PLUMBING PLANS
5. REMOVE PLUG & CONNECT TO EXISTING SANITARY SEWER.
6. INSTALL 4" SDR35 PVC SANITARY SEWER LATERAL
7. SEE ARCHITECTURAL PLANS FOR CONNECTION
8. INSTALL 6" (PRIVATE) SDR35 PVC SANITARY SEWER PIPE
9. INSTALL SANITARY SEWER CLEANOUT, SIZE PER PLAN, PER DCSWCS DWG NO. SD-26
10. INSTALL SANITARY SEWER BACKWATER VALVE IN COMPLIANCE WITH UPC SECTION 710.
11. INSTALL 12" SDR35 PVC SANITARY SEWER PIPE
12. INSTALL 320 GAL SAND/OIL INTERCEPTOR W/ SAMPLE BOX

SEE SHEET C-2 FOR LEGEND, ABBREVIATIONS AND QUANTITIES

RPPA (4) 1-1/2"

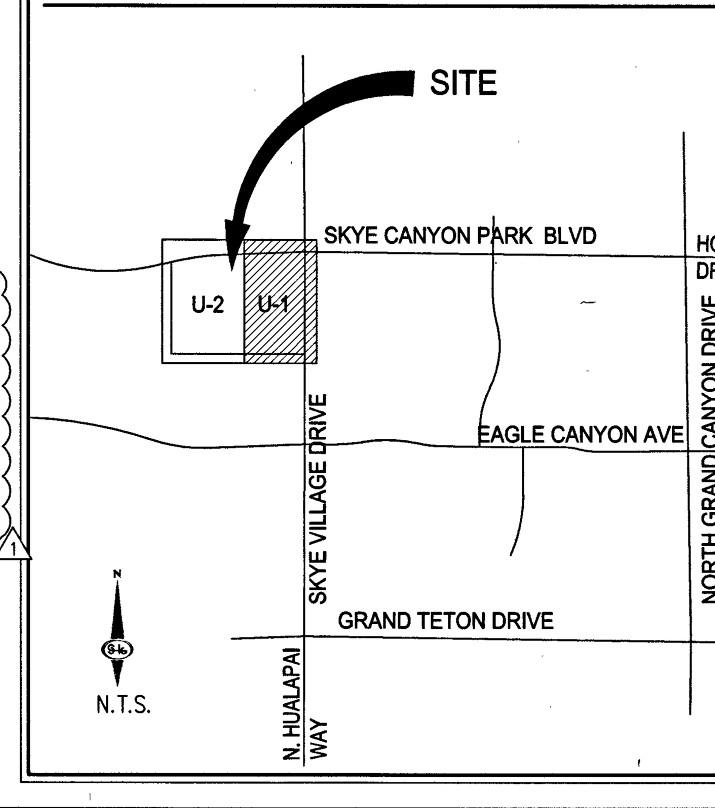
APPROVED REDUCED PRESSURE PRINCIPLE ASSEMBLY(S) SHALL BE INSTALLED PER THE UDACS PLATE NO. 8. NO WATER SHALL BE TAKEN FROM A SERVICE REQUIRING BACKFLOW PREVENTION UNTIL THE REDUCED PRESSURE PRINCIPLE ASSEMBLY HAS BEEN SUCCESSFULLY TESTED BY THE LVVWD. ANY BLOCK WALL OR OTHER FENCE MATERIAL SHALL BE DESIGNED 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.

GENERAL NOTES

1. THE CONTRACTOR SHALL VERIFY ALL CONDITIONS OF EXISTING STRUCTURES INCLUDING LOCATION, ELEVATION, DIMENSIONS AND REPORT ALL DISCREPANCIES TO THE ENGINEER PRIOR TO CONSTRUCTION.
2. SEE DETAIL SHEET D-1 FOR STREET SECTIONS AND DETAILS.
3. SEE SHEET C-2 FOR LEGEND.

REDUCED PRESSURE PRINCIPLE ASSEMBLY (2) 10" (WATTS 909RPDA)
APPROVED REDUCED PRESSURE PRINCIPLE ASSEMBLY(S) SHALL BE INSTALLED IN ACCORDANCE WITH UDACS PLATE NO. 59. NO WATER SHALL BE TAKEN FROM A SERVICE REQUIRING BACKFLOW PREVENTION UNTIL THE ASSEMBLY HAS BEEN SUCCESSFULLY TESTED BY LVVWD. ANY BLOCK WALL OR OTHER FENCE MATERIAL SHALL BE DESIGNED AND CONSTRUCTED AROUND THE OUTSIDE OF THE EASEMENT(S) SO AS 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.

LOCATION MAP



APPROVAL
K [signature] 9/24/15
LAS VEGAS FIRE AND RESCUE DATE

APPROVED FOR CONSTRUCTION 1ST APP'D 4-23-15
[signature] FOR DJM
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES MANAGER
DATE 9/16/15 PROJECT NO. 123577
LVVWD APPROVED FIRE FLOW 1,500 GPM AT 20 PSI RESIDUAL

AVOID HITTING OVERHEAD POWER LINES. IT'S COSTLY.
CALL BEFORE YOU DO OVERHEAD
1-702-227-2929

Call before you Dig
Avoid cutting underground utility lines. It's costly.
Call 811
OR 1-800-227-2600
AND CLARK COUNTY TRAFFIC OPERATIONS 1-702-455-6000

AVOID HITTING UNDERGROUND TRAFFIC SIGNAL SYSTEMS AND STREET LIGHT SYSTEM CONDUITS. IT'S COSTLY.
Call before you do UnderGround
1-702-455-6000
CLARK COUNTY TRAFFIC OPERATIONS
AND
1-702-432-5300
FREEWAY AND ARTERIAL SYSTEM OF TRANSPORTATION

0 30 60
SCALE – 1"=30' FEET

SLATER HANIFAN GROUP
CONSULTING ENGINEERS & PLANNERS
5740 S. ARVILLE STREET #216, LAS VEGAS, NV 89118
PHONE (702) 284-5300 FAX (702) 284-5399

NO.	DESCRIPTION	DATE	BY	APP. DATE	APP.
1	ADDED RESTROOM, PLAYGROUND, & BB COURT	8/19/15	DW	9/16/15	[initials]
	REVISED (2) 2" METERS TO (2) 1 1/2" METERS	[signature] 9/21/2015			

NINETY-FIVE MANAGEMENT LLC

CITY OF LAS VEGAS, NEVADA

SKYE CANYON PARK PHASE 1
UTILITY PLAN I

S12 T19 R59E

DATE: 4/10/15
DRAFTER: CS
DESIGNER: DW
CHECKED: DW

PROJECT NO.
OLY1401.000

PROFESSIONAL ENGINEER – STATE OF NEVADA
DAVID WILSON
Exp. 6/30/2016
CIVIL
No. 8441
10 September 2015

U-1
SHEET 12 OF 15

HH 58343
650.109

j:\oly1401-003 skye canyon rec center\dwg\improv\oly1401.003 utl.dwg 9/10/2015 9:42 AM Ben Ledesma