REDUCED PRESSURE PRINCIPLE ASSEMBLY (1) 1" + (1) 2"

APPROVED REDUCED PRESSURE PRINCIPLE ASSEMBLY(S) SHALL BE INSTALLED PER THE U.D.A.C.S. PLATE No. 8. NO WATER SHALL BE TAKEN FROM A SERVICE REQUIRING BACK FLOW PREVENTION UNTIL THE REDUCED PRESSURE PRINCIPLE ASSEMBLY HAS BEEN SUCCESSFULLY TESTED BY LAS VEGAS VALLEY WATER DISTRICT.

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.

NOTE

OWNER RESPONSIBILITY TO PROVIDE SURVEY MONUMENTATION AS SHOWN AND TO REPLACE ALL SURVEY MONUMENTATION DAMAGED, DISTURBED, DESTROYED, OR OBSCURED DURING CONSTRUCTION.

EASEMENT WITH TREES, SHRUBS, DECORATIVE ROCKS, BLOCK WALL 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.

REDUCED PRESSURE DETECTOR ASSEMBLY (RPDA) (2) 6"

THE REDUCED PRESSURE DETECTOR ASSEMBLIES SHALL BE INSTALLED IN ACCORDANCE WITH THE UDACS PLATE NO. 56. 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 LVVWD DIRECT ACCESS FROM THE ADJACENT RIGHT-OF-WAY. EASEMENTS SHALL BE CLEARLY MARKED OR STAKED PRIOR TO THE START OF THE CONSTRUCTION.

DISCLAIMER NOTE

EXISTING UTILITY LOCATIONS SHOWN HEREIN ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT VERTICAL AND HORIZONTAL LOCATION OF ALL EXISTING UNDER- GROUND 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. ALL DISCREPANCIES MUST BE IMMEDIATELY REPORTED TO THE ENGINEER.
CALL BEFORE YOU DIG: 1-800-227-2600.

WATER QUANTITIES

ITEM	PUBLIC	PRIVATE
8" PVC WATER (FIRE)	69 LF	747 LF
6" PVC WATER (FIRE)	42 LF	219 LF
4" PVC WATER (FIRE)	–	45 LF
2" PVC WATER (DOM)	2" CU 15 LF	507 LF
2" PVC WATER (IRRIG)	1" CU 15 LF	19 LF
FIRE HYDRANT	–	2 EA

SEWER QUANTITIES

ITEM	PRIVATE
8" PVC SEWER	287 LF
6" PVC SEWER CLEANOUT	8 EA
4" PVC SEWER	463 LF
4" PVC SEWER CLEANOUT	3 EA

INSTALL BLUE COLORED REFLECTIVE RAISED PAVEMENT MARKERS ADJACENT TO THE FIRE HYDRANT ON ALL APPROVED FIRE APPARATUS ACCESS ROADWAYS WITH HARD SURFACES, INCLUDING BOTH PUBLIC AND PRIVATE ROADS, STREETS, OR FIRE LANES.

- ON ROADWAYS WITH NO PARKING PERMITTED ON THE HYDRANT SIDE; EIGHT (8) FEET FROM THE FACE OF CURB ON THE HYDRANT SIDE
- ON ROADWAYS WITH PARKING PERMITTED ON THE HYDRANT SIDE; SIXTEEN (16) FEET FROM THE FACE OF CURB ON THE HYDRANT SIDE

FIRE HYDRANT RELOCATION AND LATERAL ABANDONMENT (EXISTING LATERAL TO BE ABANDONED)

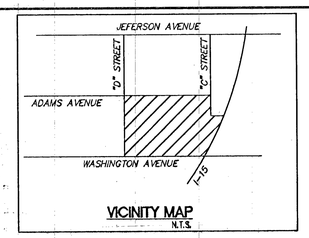
WHERE SHOWN ON THE DRAWING, THE CONTRACTOR SHALL ABANDON THE EXISTING FIRE HYDRANT(S) BY REMOVING BOTH THE UPPER AND LOWER FIRE HYDRANT BARRELS SO THAT NO PORTION OF THE REMAINING FIRE HYDRANT ASSEMBLY IS CLOSER THAN TWO (2) FEET TO THE EXISTING GRADE. FIRE HYDRANTS SHALL BE TESTED PRIOR TO AND AFTER RELOCATION UNDER THE DIRECTION OF THE DISTRICT TO ENSURE QUALITY OF THE FIRE HYDRANT(S). THE EXISTING HYDRANT SHALL BE INSTALLED AT THE NEW LOCATION AS INDICATED ON THE DRAWING, IN ACCORDANCE WITH UD.A.C.S. PLATE 40. THE EXISTING VALVE SHALL BE ABANDONED IN A CLOSED POSITION, UNLESS SHOWN OTHERWISE, BY REMOVING A MINIMUM OF EIGHT (8) INCHES OF SAND OR TYPE II AGGREGATE BASE. THE REMAINING PORTION OF THE VALVE BOX SHALL BE FILLED WITH CONCRETE HAVING A COMPRESSIVE STRENGTH OF AT LEAST TWO THOUSAND (2000) PSI. THE LATERAL SHALL BE CUT WITHIN ONE (1) FOOT OF THE ABANDONED VALVE, OR AS SHOWN ON THE PLANS, AND CAPPED. WHERE A JOINT OR COUPLING IN THE EXISTING PIPE IS UNCOVERED AT THE CUT AND CAP LOCATION, THE INSTALLATION OF A PLUG MAY BE PERMITTED, WITH DISTRICT APPROVAL. A CONCRETE THRUST BLOCK SHALL BE INSTALLED AT ALL CUT AND CAP LOCATIONS IN ACCORDANCE WITH THE PROVISIONS OF U.D.A.C.S. PLATE No. 31.

PROPOSED BLDG. FIRE FLOW CALCULATIONS

FIRE FLOW REQUIREMENT IS 1,625 GALLONS PER MINUTE @ 20 PSI RESIDUAL PRESSURE
BASED ON:

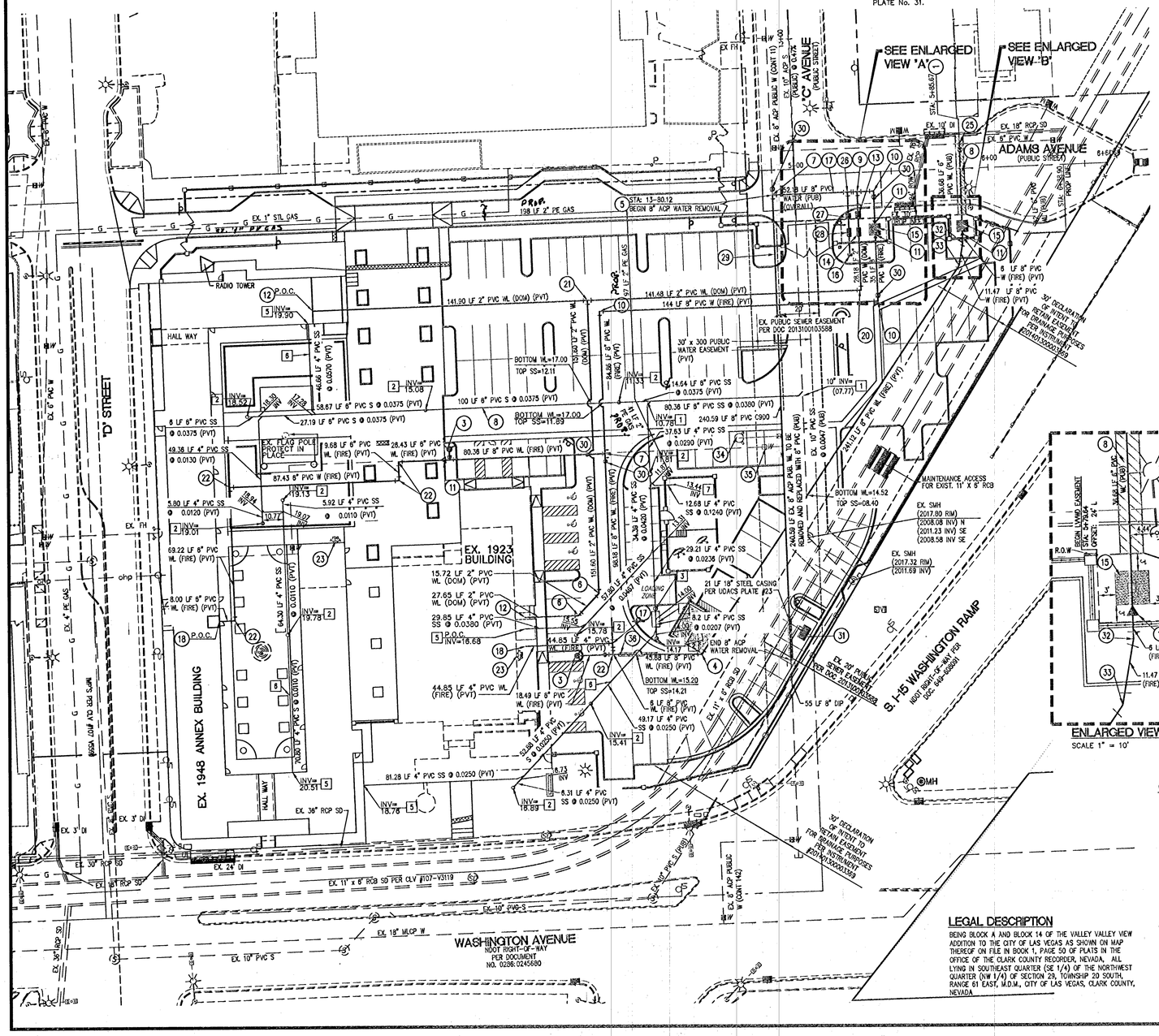
	EX. 1948 ANNEX BUILDING		EX. 1923 BUILDING	
SQUARE FOOTAGE	1st FLOOR	13,948 SF	1st FLOOR	5,834 SF
	TOTAL AREA	TOTAL SF	TOTAL AREA	TOTAL SF
LARGEST AREA BETWEEN 4-HOUR AREA SEPERATION WALLS:	N/A		N/A	
BUILDING HEIGHT:	26'		26'	
NUMBER OF STORIES:	1		1	
TYPE OF CONSTRUCTION:	VB		VB	
OCCUPANCY:	A-2, B, M		A-3	

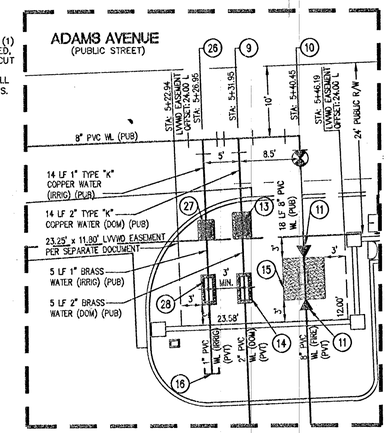
FULL AUTOMATIC FIRE SPRINKLER SYSTEM: ☒YES ☐NO
REVIEWED BY: _____ DATE: _____
LAS VEGAS FIRE AND RESCUE



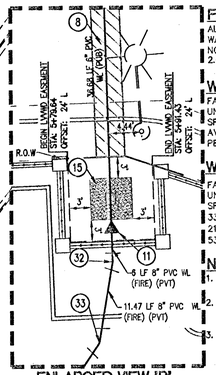
VICINITY MAP
N.T.S.

GRAPHIC SCALE
30 0 15 30 60 120
(IN FEET)
1 inch = 30 ft.





ENLARGED VIEW "A"
SCALE 1" = 10'



ENLARGED VIEW "B"
SCALE 1" = 10'

WARNING FIRE LINE (NON-POTABLE WATER)
ALL EXISTING, RELOCATED OR PROPOSED DCDA/RPDA

"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."

LEGEND

- PROPOSED SEWER LINE
- PROPOSED WATER LINE
- PROPOSED SEWER CLEAN OUT
- PROPOSED SEWER MANHOLE
- EXISTING SEWER MANHOLE/CLEANOUT
- PROPOSED GATE VALVE
- EXISTING GATE VALVE
- EXISTING WATER LINE
- EXISTING SEWER LINE
- EXISTING GAS LINE
- EXISTING STREET LIGHT
- PROPOSED STREET LIGHT
- EXISTING WATER OR SEWER CAP
- PROPOSED WATER OR SEWER CAP
- EXISTING FIRE HYDRANT
- PROPOSED FIRE HYDRANT
- SAWCUT LINE

CONSTRUCTION NOTES SEWER

1. LATERAL CONNECTION PER D.C.S.W.C.S. STD. DWG. No. SD-22 & SD-25
2. INSTALL 6" CLEANOUT PER D.C.S.W.C.S. STD. DWG. No. SD-26
3. INSTALL SAMPLE BOX PER PLUMBING PLANS
4. INSTALL GREASE INTERCEPTOR PER PLUMBING PLANS
5. STUB & CAP – SEE PLUMBING PLANS FOR CONTINUATION
6. TRENCH SECTION PER D.C.S.W.C.S. STD. DWG. No. SD-17
7. STUB AND CAP FOR A/C CONDENSATE DRAINS

* ALL ONSITE SEWER TO BE PRIVATE

FIRE WATER AT DOMESTIC WATER CROSSINGS

ALL NON-POTABLE FIRE WATER LINES CROSSING POTABLE DOMESTIC WATER LINES ARE TO BE INSTALLED WITH "A VERTICAL SEPARATION OF NO LESS THAN SIX INCHES" AND IN ACCORDANCE WITH UDACS 2.23.01, 2.04.05, 2.22.02.B1, AND 2.22.02.B2.

WASTEWATER FLOW CALCULATIONS

FACILITY TYPE: OFFICE
UNITS: 1 BUILDING
SF: 33,444
AVERAGE FLOW: 0.0009 MGD
PEAK FLOW:0.0039 MGD

WASTEWATER FLOW CALCULATIONS

FACILITY TYPE: PSYCHIATRIC HOSPITAL
UNITS: 1 BUILDING
SF: 67,500
332 FU X .65 = 215.8 ERU'S
215.8 X 250 GPD/1,000,000 = .05395 GPD AVERAGE FLOW
53,950 GPD X 3.45/1,000,000 = 0.1861 MGD PEAK FLOW

NOTES:

1. INSTALL PIPELINE MARKER BALLS IN TRENCH ABOVE EACH HORIZONTAL ELBOW FITTING, PER UDACS PLATE NO. 15.
2. ALL ABOVE GROUND UTILITY APPURTENANCES SHALL CONFORM TO THE REQUIREMENTS OF TITLE 19.08 & 19.08.
3. 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 STORM MAIN CROSSINGS AND CLEARANCES
4. ANNULAR SPACE BETWEEN PIPE AND CASING SHALL BE FILLED WITH CLASS 1 CI.SM. SEE U.D.A.C.S. PLATE No. 16, 17, 18, AND 19 FOR BEDDING AND BACKFILL REQUIREMENTS.

CITY OF LAS VEGAS FIRE DEPARTMENT APPROVAL

K Smith 10/22/14

APPROVAL OF THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR, OR AN APPROVAL OF, ANY VIOLATION OF ANY OF THE PROVISIONS OF THE STATE OR COUNTY LAWS. FIRE FLOW: 1,625 GPM AT 20 P.S.I. RESIDUAL.

LEGAL DESCRIPTION

BEING BLOCK A AND BLOCK 14 OF THE VALLEY VALLEY VIEW ADDITION TO THE CITY OF LAS VEGAS AS SHOWN ON MAP THEREOF ON FILE IN BOOK 1, PAGE 50 OF PLATS IN THE OFFICE OF THE CLARK COUNTY RECORDER, NEVADA, ALL LYING IN SOUTHEAST QUARTER (SE 1/4) OF THE NORTHWEST QUARTER (NW 1/4) OF SECTION 29, TOWNSHIP 20 SOUTH, RANGE 61 EAST, M.D.M., CITY OF LAS VEGAS, CLARK COUNTY, NEVADA

APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES MANAGER
PROJECT # 122011 DATE:
(SHEETS C1, N1, D11 & UT1) LVVWD APPROVED FIRE FLOW 1625 GPM AT 20 PSI RESIDENTIAL

FIRE DEPARTMENT APPROVAL
APPROVAL BY THE FIRE DEPARTMENT HAVING JURISTICTION IS REQUIRED PRIOR TO OBTAINING FINAL APPROVAL FROM THE LVVWD.

CONSTRUCTION NOTES WATER

1. INSTALL 8" x 6" MJ TAPPING SLEEVE W/ 6" TAPPING VALVE PER U.D.A.C.S. PLATE No. 34
2. INSTALL 6" GATE VALVE PER U.D.A.C.S. PLATES No. 30 & No. 39
3. INSTALL FIRE HYDRANT PER U.D.A.C.S. PLATE No. 40
4. INSTALL 8" – 45 DEGREE BEND PER U.D.A.C.S. PLATE No. 31
5. INSTALL 8" TAPPING SLEEVE W/8" TAPPING VALVE PER U.D.A.C.S. PLATE No. 34
6. INSTALL 2" – 45 DEGREE BEND
7. INSTALL 8" TEE PER U.D.A.C.S. PLATE No. 31
8. UTILITY TRENCH SECTION PER U.D.A.C.S. PLATE No. 17
9. INSTALL 2" SERVICE TAP PER U.D.A.C.S. PLATE No. 4
10. INSTALL 8" – 90° BEND PER U.D.A.C.S. PLATE No. 31
11. INSTALL 8" x 6" REDUCER PER U.D.A.C.S. PLATE No. 30
12. SEE PLUMBING PLANS FOR CONTINUATION
13. INSTALL 2" WATER METER PER U.D.A.C.S. PLATE No. 4
14. INSTALL 2" RPPA PER U.D.A.C.S. PLATE No. 8
15. INSTALL 6" RPDA PER U.D.A.C.S. PLATE No. 56
16. INSTALL 1" CAP FOR IRRIGATION CONNECTION
17. INSTALL 8" x 4" TEE
18. SEE FIRE PROTECTION PLANS FOR CONTINUATION
19. INSTALL 8" x 6" TEE PER U.D.A.C.S. PLATE No. 31
20. INSTALL 2" – 90 DEGREE BEND
21. INSTALL 2" TEE
22. INSTALL 6" – 90 DEGREE BEND PER U.D.A.C.S. PLATE No. 31
23. FIRE DEPARTMENT CONNECTION (FDC) PER FIRE PROTECTION PLANS
24. INSTALL 6" x 4" TEE PER U.D.A.C.S. PLATE No. 31
25. INSTALL 6" TAPPING SLEEVE W/6" TAPPING VALVE PER U.D.A.C.S. PLATE No. 34
26. INSTALL 1" SERVICE TAP PER U.D.A.C.S. PLATE No. 4
27. INSTALL 1" WATER METER PER U.D.A.C.S. PLATE No. 4
28. INSTALL 1" RPPA PER U.D.A.C.S. PLATE No. 8
29. CONTRACTOR TO REMOVE APPROXIMATELY 240.59 LF OF EXISTING 8" ACP WATER AND REPLACE WITH 8" PVC
30. INSTALL 8" GATE VALVE PER U.D.A.C.S. PLATE No. 30 AND 39
31. SEE SHEET C5.00 – GRADING PLAN – CONSTRUCTION NOTE No. 23
32. INSTALL 8" – 11.25 DEGREE BEND PER U.D.A.C.S. PLATE No. 31
33. INSTALL 8" – 22.5 DEGREE BEND PER U.D.A.C.S. PLATE No. 31
34. EXISTING FIRE HYDRANT TO BE REMOVED AND RELOCATED PER NOTE THIS SHEET
35. REMOVE EXISTING METER AND RETURN TO LVVWD & ABANDON EXISTING LATERAL IN PLACE PER NOTE THIS SHEET.
36. INSTALL ENCASEMENT OF WATERLINE PER U.D.A.C.S. PLATE No. 23

BASIS OF BEARINGS:

BEING THE CENTERLINE OF "D" STREET NORTH 01°58'58" WEST BETWEEN WASHINGTON AVENUE AND JEFFERSON AVENUE, AS SHOWN ON RECORD OF SURVEY ON FILE IN FILE 113 PAGE 50 AS RECORDED IN THE OFFICIAL RECORDS OF CLARK COUNTY, NEVADA ON DECEMBER 19, 2000.

BASIS OF ELEVATION:

CITY OF LAS VEGAS BENCHMARK "2LVC1 27W6"

BEING A RIVET AND PLATE, IN TOP OF CURB @ NE CORNER OF WASHINGTON AND D STREET.
2008 ADJUSTMENT ELEVATION OF 2022.57 FEET.

AVOID CUTTING UNDERGROUND UTILITY LINES. IT'S COSTLY. Call before you Dig. 1-800-227-2600 UNDERGROUND SERVICE ALERT (USA)

Call before you Dig Avoid cutting underground utility lines, it's costly. Call 811 or 1-800-227-2600 (USA) or 1-702-455-7544 (CLARK COUNTY TRAFFIC SIGNAL OPERATIONS)

AVOID HITTING UNDERGROUND TRAFFIC SIGNAL SYSTEM AND STREET LIGHT SYSTEM CONDUITS IT'S COSTLY. CALL BEFORE YOU DIG UNDERGROUND. Call before you UnderGround 1-702-455-7511 CLARK COUNTY TRAFFIC OPERATIONS 1-702-432-5300 LAS VEGAS AREA COMPUTERIZED TRAFFIC SYSTEM

HH 55904

WRIGHT engineers
1635 VILLAGE CENTER CIRCLE, SUITE 200
LAS VEGAS, NV 89134
p 702.933.7000 f 702.933.7001
WRIGHTENGINEERS.COM
LAS VEGAS :: IRVINE :: PHOENIX :: SALT LAKE CITY

REV	DATE	BY	REVISION

CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS
400 E. STEWART AVENUE
LAS VEGAS, NV 89101
TEL (702) 229-6535 FAX: (702) 382-3232

CHECK NO. 1 DATE:
CHECK NO. 2 DATE:

CITY OF LAS VEGAS
WESTSIDE SCHOOL HISTORIC REHABILITATION

UTILITY PLAN

DATE: 10/20/14
DRAWN BY: CJL
PROJECT MGR: JMW
PROJECT NO: 112338
SCALE: 1" = 30'

JOHN M. WALKER
Exp. 06/30/16
CIVIL
NEVADA No. 12719
10/20/14

SHEET
C3.00
4 OF 9 SHEETS

DRAWING NO.
107V6324