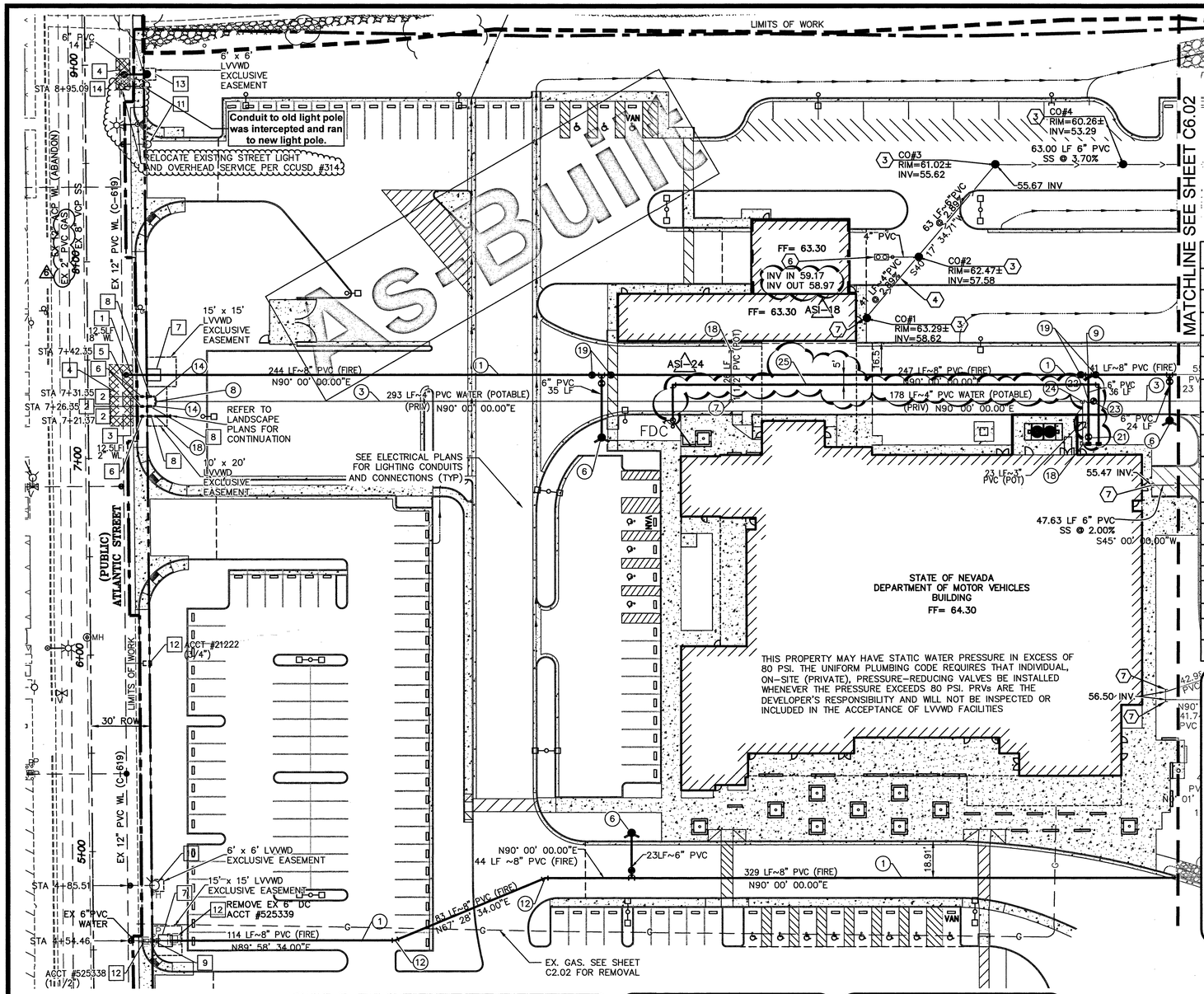

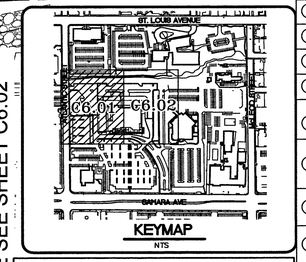

LEGEND

	EXSTING	PROPOSED
FIRE HYDRANTS		
GATE VAVLES		
REDUCERS		
CLEAN OUTS		
UTILITY BOX OR VAULT		
SANITARY MH	Ⓢ	Ⓢ
STORM MH	Ⓓ	Ⓓ
TELEPHONE MH	Ⓣ	Ⓣ
ELECTRICAL MH	Ⓔ	Ⓔ
WALL		
CONCRETE		
SIGNS		
CENTERLINE		
PROPERTY LINE		
ROW		
EASEMENT		
SAWCUT		

FIRE HYDRANT AND LATERAL ABANDONMENT

WHERE SHOWN ON THE DRAWING, THE CONTRACTOR SHALL ABANDON THE EXISTING FIRE HYDRANT(S) BY REMOVING BOTH THE UPPER AND LOWER BARRELS OF THE FIRE HYDRANT SO THAT NO PORTION OF THE REMAINING FIRE HYDRANT ASSEMBLY IS CLOSER THAN TWO (2) FEET TO THE EXISTING GRADE. THE HYDRANT SHALL BE DELIVERED TO THE DISTRICT. THE EXISTING VALVE SHALL BE ABANDONED IN A CLOSED POSITION, UNLESS SHOWN OTHERWISE, BY REMOVING A MINIMUM OF THE TOP TWENTY-FOUR (24) INCHES OF THE VALVE BOX AND THEN FILLING THE BOTTOM OF THE BOX WITH 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 (2,000) PSI. THE REMAINING PORTION OF THE LATERAL SHALL BE CUT WITHIN ONE (1) FOOT OF THE ABANDONED VALVE, OR AS SHOWN ON PLANS, AND CAPPED. THE EXISTING CONCRETE HYDRANT PAD SHALL BE REMOVED.

WATER CONSTRUCTION NOTES (PRIVATE)

1	INSTALL 8" PVC WATER MAIN (C900, CL200)	1482	LF
2	NOT USED		
3	INSTALL 4" PVC WL (DOMESTIC)	630	LF
4	NOT USED		
5	INSTALL 8"X6" REDUCER WITH ANCHOR THRUST BLOCK PER UDACS PLATE No. 30 AND 31	1	EA
6	INSTALL 6"FIRE HYDRANT ASSEMBLY (INCLUDES 8"x6" TEE & 6" GATE VALVE) PER UDACS PLATE 40, PROVIDE 3' CLEARANCE AROUND HYDRANT.	5	EA
7	INSTALL 4"x4"x1 1/2" TEE PER UDACS PLATE No. 30 AND 31	1	EA
8	INSTALL 4"x4"x4" TEE PER UDACS PLATE No. 30 AND 31	1	EA
9	INSTALL 8"X6" TEE PER UDACS PLATE No. 30 AND 31	1	EA
10	INSTALL 8"x8" TEE PER PER UDACS PLATE No. 30 AND 31	2	EA
11	INSTALL 8" 90° BEND W/THRUST BLOCK PER UDACS PLATE 31	2	EA
12	INSTALL 8" 22.5° BEND W/THRUST BLOCK PER UDACS PLATE 31	2	EA
13	REFER TO MECHANICAL PLANS FOR CONTINUATION		
14	INSTALL 2" 90 BEND WITH 4"x2" REDUCER WITH ANCHOR THRUST BLOCK PER UDACS PLATE No. 30 AND 31	2	EA
15	INSTALL 8" CAP AND 2" BLOW OFF PER UDACS PLATE 36	2	EA
16	FIRE HYDRANT RELOCATION AND LATERAL ABANDONMENT SEE NOTE THIS SHEET.	1	EA
17	NOT USED		
18	INSTALL CAP. SIZE TO MATCH LINE	2	EA
19	INSTALL 8" GATE VALVE PER UDACS PLATE No. 30,31 & 39	5	EA
20	INSTALL 2" BLOW OFF PER UDACS PLATE 36	1	EA
21	INSTALL 6" GATE VALVE PER UDACS PLATE NO. 30, 31, & 39 WITH POST INDICATOR (PIV) AND ELECT. MONITOR	1	EA
22	MAINTAIN A MIN. OF 18" SEPARATION.	1	EA
23	INSTALL 4" GATE VALVE PER UDACS PLATE 30, 31 AND 39	1	EA
24	INSTALL 4"X4"X3" TEE PER UDACS PLATE 30 AND 31	1	EA
25	INSTALL FIRE DEPT. CONNECTION (FDC) PIPING BETWEEN FIRE RISER ROOM AND FDC PER PLUMBING SPECIFICATIONS AND NFPA REQUIREMENTS.	266	LF

WATER CONSTRUCTION NOTES (PUBLIC)

1	INSTALL 8" PVC WATER MAIN (C900, CL200)	12	LF
2	INSTALL SERVICE SADDLE & CORP STOP PER UDACS PLT NO. 4	3	EA
3	INSTALL 2" TYPE "K" COPPER PIPE PER UDACS PLATE #4	38	LF
4	PAVEMENT REPLACEMENT PER CCUSD #500.5	390	SF
5	CONNECT TO EXISTING 12" WATER LINE WITH 12"x8" TAPPING SLEEVE WITH 8" TAPPING VALVE PER UDACS PLATE #34	1	EA
6	INSTALL 2" METER PER UDACS PLATE #4	3	EA
7	INSTALL 8" RDPA PER UDACS PLATE #56	2	EA
8	INSTALL 2" RPPA PER UDACS PLATE 8	3	EA
9	INSTALL 8"X6" REDUCER PER UDACS PLATE #30	1	EA
10	REPLACE EX FH WITH NEW FH AND INSTALL PAD PER UDACS PLATE #40	1	EA
11	ABANDON EX FH PER NOTE	1	EA
12	ABANDON EX WATER SERVICE PER NOTE	3	EA
13	INSTALL FIRE HYDRANT ASSEMBLY PER UDACS PLATE No. 40	1	EA
14	CONNECT TO EXISTING 12" WATER LINE WITH 12" X 6" TAPPING SLEEVE WITH 6" TAPPING VALVE PER UDACS PLATE No. 34	1	EA

BASIS OF BEARING

THE BASIS OF BEARINGS FOR THIS PROJECT IS GRID NORTH AS DEFINED BY THE NEVADA COORDINATE SYSTEM OF 1983 (NCS83), EAST ZONE, (2701).

BENCHMARK

CITY OF LAS VEGAS BENCHMARK NO. 12LV111S4
RIVET AND PLATE IN TOP OF CURB AT
NW CORNER OF McLEOD DR. AND SAHARA AVENUE.
ELEV. = 564.998 METERS(NAVD'88)
= 1853.67 FEET(NAVD'88)

Call before you Dig
AVOID CUTTING UNDERGROUND UTILITY LINES. IT'S COSTLY.
Call 811 OR 1-800-227-2600

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

AVOID DIGGING UNDERGROUND GAS PIPELINES. IT'S COSTLY.
CALL BEFORE YOU TOUCH UNDERGROUND
Call before you UnderGround
FREIGHT AND MATERIAL SYSTEM OF TRANSPORTATION
1-702-432-5300

REDUCED PRESSURE PRINCIPAL ASSEMBLY (3) 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 ROW. EASEMENTS SHALL BE CLEARLY MARKED OR STAKED PRIOR TO THE START OF CONSTRUCTION.

APPROVED FOR CONSTRUCTION

Las Vegas Valley Water District Engineering Services Manager
Date_____ Project No. 123741

LVVWD APPROVED FIRE FLOW 2125 AT 20 PSI RESIDUAL

SEWER CONSTRUCTION NOTES

1. CONNECT TO EXISTING SEWER MANHOLE AND MODIFY EXISTING MANHOLE BASE FOR NEW SEWER CONNECTION PER SD-9
2. INSTALL SEWER MANHOLE PER DCSWCS #SD-1A
3. INSTALL CLEANOUT PER DCSWCS #SD-26
4. INSTALL LATERAL PER DCSWCS #SD-22
5. ABANDON EXISTING SEWER PER DCSWCS 3.18
6. INSTALL OIL/WATER SEPARATOR PER PROJECT MECHANICAL PLANS
7. INSTALL SEWER LINE CAP
8. INSTALL GREASE INTERCEPTOR PER PROJECT MECHANICAL PLANS

FIRE FLOW CALCULATIONS

FIRE FLOW REQUIREMENT IS: 2125 GALLONS PER MINUTE AT 20 P.S.I. RESIDUAL PRESSURE

BASED ON:

SQUARE FOOTAGE	42,200 SF
LARGEST AREA BETWEEN SEPARATION WALLS	N/A
BUILDING HEIGHT	35'-0" +/-
NUMBER OF STORIES	1 FLOOR
TYPE OF CONSTRUCTION:	IIB
FULL AUTOMATIC FIRE SPRINKLER SYSTEM	☒ ☐

REVIEWED BY: _____
DATE: _____
LAS VEGAS FIRE DEPT.

UTILITY NOTES

UTILITY LOCATIONS SHOWN HEREON ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO DETERMINE THE EXACT VERTICAL AND HORIZONTAL LOCATION OF ALL EXISTING UNDERGROUND 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 CORRECT LOCATION.

N

ATKINS

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

6/11/8

LAS VEGAS FIRE AND RESCUE DATE

ATKINS
2270 Corporate Circle Suite 200
Henderson, Nevada 89074
Telephone: 702-263-7275
Fax: 702-263-7200

REV.	DESCRIPTION	BY	DATE	APPROVAL
1	ADDENDUM #1		5/02/2016	
2	ADDENDUM #2		6/10/2016	
3	SITE/UTILITY/GMP CHANGES		8/08/2016	
A	AB-08 SOUTH/WEST GAS COMMENTS		10/24/2016	
AB-09	REVISE CWB INVEST. GRADES		02/14/2016	
AB-04	ADD FDC PIPING		02/27/2016	

STATE OF NEVADA
PUBLIC WORKS DIVISION
BID SET

PROJECT # 13-P01
DATE: JUNE 2, 2015

TITLE: PLANNING FOR SAHARA DEPARTMENT OF MOTOR VEHICLES BUILDING REPLACEMENT (13-P01)

SHEET: UTILITY PLAN

PROFESSIONAL ENGINEER STATE OF NEVADA
DANIEL A. KNOTT
EXP. 6-30-17
CIVIL
No. 7375
06/26/2016

SHEET: C6.01
21 of 26

DRAWING: 167V6499

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