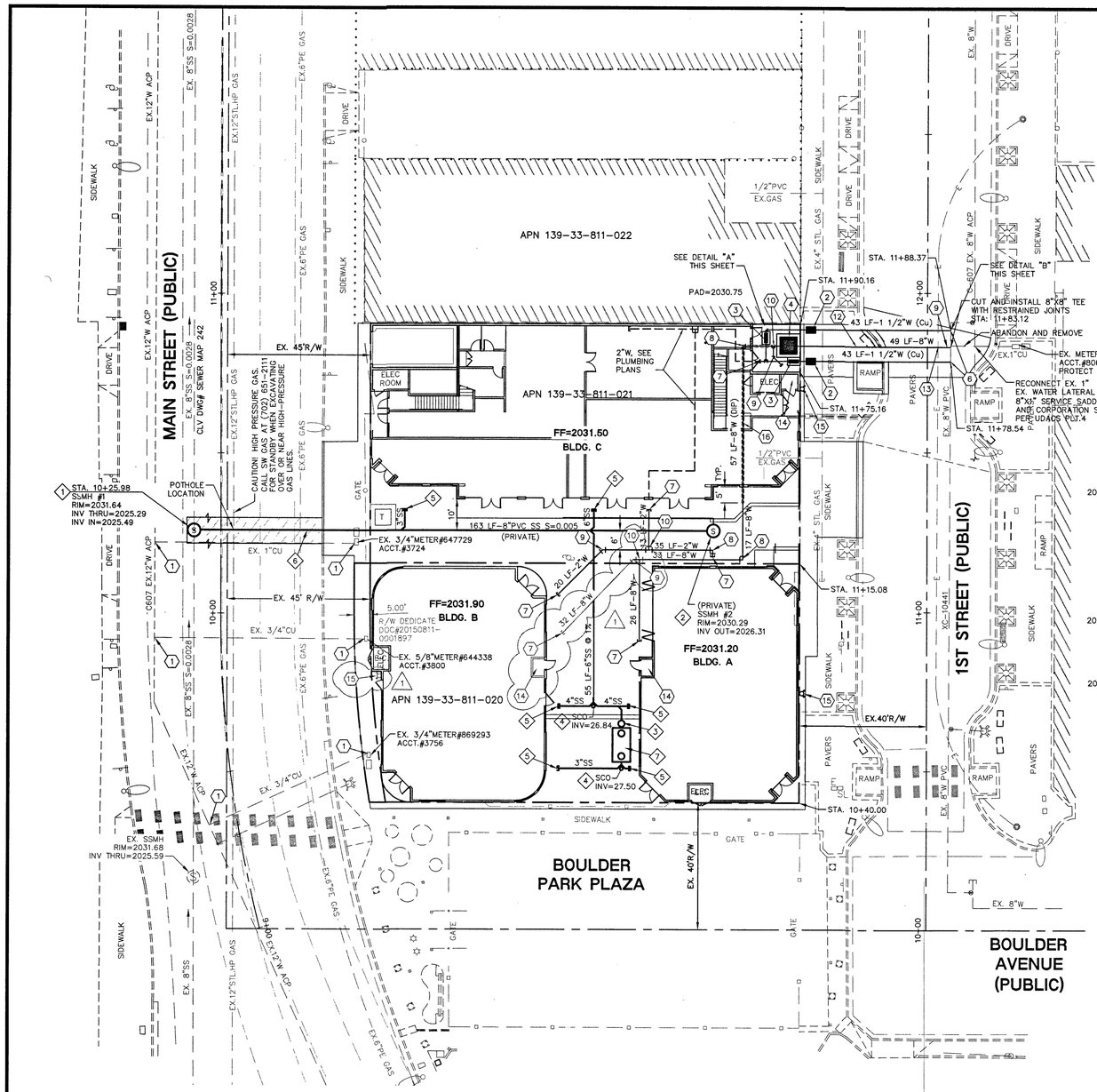
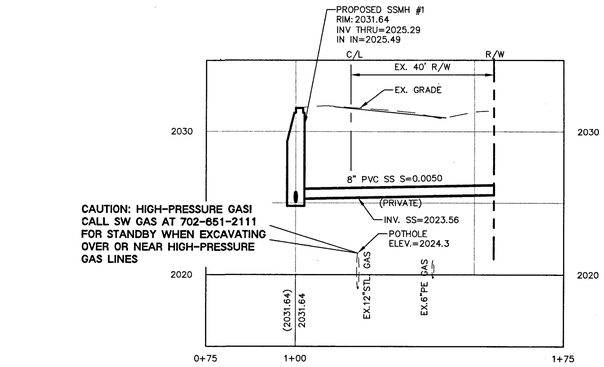
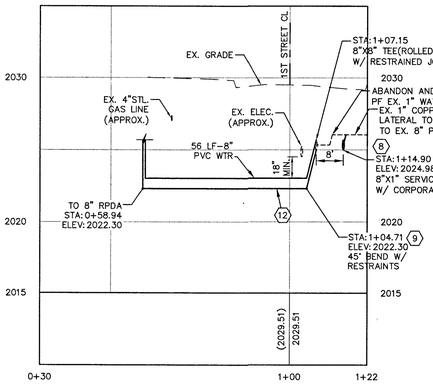
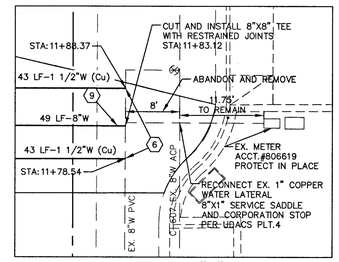




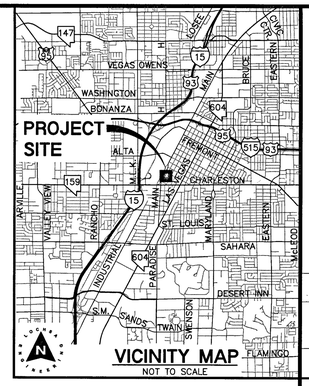
SEWER PROFILE VIEW
HORIZONTAL SCALE: 1"=20'
VERTICAL SCALE: 1"=5'



WATER PROFILE VIEW
HORIZONTAL SCALE: 1"=20'
VERTICAL SCALE: 1"=5'



DETAIL "B"
1"=10'



FIRE FLOW CALCULATIONS

FIRE FLOW REQUIREMENT IS 1,500 GALLONS PER MINUTE (GPM) @ 20 PSI RESIDUAL PRESSURE.
BASED ON:

	"A"	"B"	"C"
SQUARE FOOTAGE:	3,512	3,275	1st 6925 2nd 4766
BUILDING HEIGHT:	26'-8"	23'	28'-6"
NUMBER OF STORIES:	1	1	2
TYPE OF CONSTRUCTION:	V-B	V-B	V-B
OCCUPANCY TYPE	A2	B	A2/B
FULL AUTOMATIC FIRE SPRINKLER SYSTEM:	YES	YES	YES
FLOW REQUIRED @ 20 PSI RESIDUAL:	1,500	1,500	1,500

REVIEWED BY: _____ DATE: _____

LAS VEGAS FIRE & RESCUE — DATE 2/28/17

2168 PZ = 58 psi STATIC

FIRE DEPARTMENT APPROVAL

APPROVAL BY THE FIRE DEPARTMENT HAVING JURISDICTION IS REQUIRED PRIOR TO OBTAINING FINAL APPROVAL FROM THE LAS VEGAS VALLEY WATER DISTRICT.

CITY OF LAS VEGAS FIRE DEPARTMENT APPROVAL

BY: _____ DATE: 2/28/17

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 1,500 GPM AT 20 P.S.I. RESIDUAL.

APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES MANAGER
DATE: 3/13/17 PROJECT No. 123943
LVVWD APPROVED FIRE FLOW = 1,500 GPM AT 20 PSI RESIDUAL

1ST APPROVED 12/2/15

A.P.N.:

139-33-811-020 AND 139-33-811-021

BASIS OF BEARINGS:

NORTH 27°54'32" EAST BEING THE BEARING OF THE CENTERLINE OF 1ST STREET, BETWEEN BOULDER AVENUE AND HOOVER AVENUE, AS SHOWN BY MAP THEREOF ON FILE IN FILE 67 OF SURVEYS, PAGE 79, IN THE OFFICE OF THE COUNTY RECORDER, CLARK COUNTY, NEVADA.

BENCHMARK:

CITY OF LAS VEGAS DATUM – BENCHMARK NO. 1LV0134 SWWG – 618.3645 MT./ 2028.75 FT. RIVET AND ROUND ALUMINUM PLATE IN THE TOP OF CURB, SOUTHEAST CORNER OF MAIN STREET AND HOOVER AVENUE. (PER FIRST STREET BEAUTIFICATION – CLV DRAWING NO. 107V5277)

NOTE:

LOCHSA ENGINEERING ASSUMES NO RESPONSIBILITY FOR EXISTING UTILITY LOCATIONS AND ELEVATIONS. THE UTILITIES SHOWN ON THIS PLAN ARE FROM THE BEST AVAILABLE INFORMATION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE LOCATION AND ELEVATION OF ALL UTILITIES, INCLUDING BUT NOT LIMITED TO, THE WATER, FIRE, SANITARY SEWER, STORM SEWER, TELEPHONE, POWER, GAS, AND IRRIGATION LINES PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. IF CONFLICT EXISTS IN THE FIELD, THE CONTRACTOR IS TO NOTIFY THE PROJECT ARCHITECT, OWNER'S REPRESENTATIVE AND THE PROJECT ENGINEER IMMEDIATELY.

WATER CONSTRUCTION NOTES:

– ALL WATER CONSTRUCTION TO BE DONE IN ACCORDANCE WITH "UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR WATER DISTRIBUTION SYSTEMS (UDACS)" LATEST EDITION.
– NOT ALL NOTES USED ON THIS SHEET –

1. ABANDON AND REMOVE EXISTING METER AND BACKFLOW ASSEMBLY AND SERVICE LATERAL PER NOTE ON THIS SHEET
2. INSTALL 1-1/2" METER PER UDACS PLATE No. 4
3. INSTALL 1-1/2" RPPA PER UDACS PLATE No. 8
4. INSTALL 8" RPDA WITH ENCLOSURE PER UDACS PLATE No. 56.
5. REMOVE EX. CAP AND CONNECT TO EX. 8" ACP WITH 8" GV
6. INSTALL 8"x1 1/2" SERVICE SADDLE AND CORP. STOP PER UDACS PLATE No. 4.
7. STUB & CAP WATER SERVICE. REFER TO PLUMBING PLANS FOR CONTINUATION.
8. INSTALL 90° BEND W/THRUST BLOCK (SAME SIZE AS PIPE) PER UDACS PLATE NO. 31.
9. INSTALL 45° BEND W/THRUST BLOCK (SAME SIZE AS PIPE) PER UDACS PLATE NO. 31.
10. INSTALL TEE W/THRUST BLOCK (SAME SIZE AS PIPE) PER UDACS PLATE NO. 31.
11. INSTALL GATE VALVE W/THRUST BLOCK (SAME SIZE AS PIPE) PER UDACS PLATE NO. 39.
12. INSTALL 8" PVC C900 PER UDACS (RESTRAIN ALL JOINTS)
13. TRENCH SECTION & BACKFILL PER UDACS PLATE NO. 17 & 19
14. FIRE RISER ROOM
15. FIRE DEPARTMENT CONNECTION (FDC)
16. 8" D.I.P. W/ MECH. STRAINED JOINTS ENCASED IN 18"DIA. STEEL PIPE

SEWER CONSTRUCTION NOTES:

– NOT ALL NOTES USED ON THIS SHEET –

1. INSTALL SD-1A SEWER MANHOLE OVER EXIST. SEWER MAIN PER DCSWCS STD NO. SD-7, CAST-IN-PLACE MANHOLE BASE. (SINGLE LID)
2. INSTALL SPECIAL SHALLOW SEWER MANHOLE PER DCSWCS STD NO. SD-13B
3. SAMPLE MH, SEE PLUMBING PLANS
4. INSTALL SEWER CLEAN OUT PER DCSWCS STD NO. SD-26
5. STUB AND CAP SEWER LATERAL, REFER TO PLUMBING PLANS FOR CONTINUATION
6. TRENCH & BACKFILL PER DCSWCS STD NO. SD-18
7. GREASE INTERCEPTOR, SEE PLUMBING PLANS

ABANDONMENT OF EXISTING SERVICE(S) – 2" AND SMALLER (1) 5/8", (2) 3/4"

THE CONTRACTOR SHALL NOTIFY THE INSPECTION DIVISION AT THE LVVWD (702-258-3227) 48 HOURS PRIOR TO THE REQUESTED REMOVAL TIME TO ALLOW THE DISTRICT TO TAKE THE FINAL METER READING. AFTER THE FINAL READING THE CONTRACTOR MAY THEN BEGIN REMOVAL PROCEDURES FOR THE AFFECTED SERVICE AS FOLLOWS:

EXISTING SERVICE LATERALS THAT ARE TO BE ABANDONED FROM THE EXISTING WATER MAINS SHALL HAVE THE CORPORATION STOPS TURNED OFF AT THE MAIN, A MINIMUM OF TWELVE (12) INCHES OF THE LATERAL CUT OUT NEAR THE CORPORATION STOPS, AND A BRASS CAP INSTALLED ON THE CORPORATION STOP. IF THE CORPORATION STOP IS DAMAGED BEYOND REPAIR OR PULLED FROM THE EXISTING WATER MAIN, THE MAIN SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE, IN A MANNER APPROVED BY THE DISTRICT. IF THE CORPORATION STOP IS NOT WATER TIGHT, THE CONTRACTOR SHALL NOTIFY LVVWD COMMUNICATION SUPPORT CENTER (702-258-7171) FOR FURTHER DIRECTION. THE EXISTING METER(S) SHALL BE REMOVED AND DELIVERED TO THE DISTRICT.

THE CONTRACTOR SHALL REMOVE THE EXISTING SERVICE METER BOX AND APPURTENANCES, FILL AND GRADE ANY AND ALL RESULTING VOIDS, AND REPLACE OR RESTORE TO ORIGINAL CONDITIONS OR BETTER, ALL LANDSCAPING, IRRIGATION SYSTEMS, CONCRETE, SIDEWALKS, ASPHALT, OR ANY OTHER ITEMS DAMAGED OR REMOVED DURING THE REMOVAL OF THE EXISTING SERVICE METER BOX.

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

"TO COMPLY WITH THE FEDERAL SAFE SRINKING WATER ACT, THE FIRE LINE, OR ANY OF ITS COMPONENTS, SHALL **NOT** BE USED FOR POTABLE DRINKING WATER AT ANY TIME"

NOTE:

CONTRACTOR TO INCLUDE COST OF UNDERGROUND UTILITY DETECTION COMPANY TO LOCATE AND MARK ALL EXISTING UTILITIES PRIOR TO ANY DEMOLITION OR EXCAVATION. ENGINEER TO BE PROVIDED WITH AS-BUILT SKETCH OF EXISTING UTILITIES, AND IS TO BE NOTIFIED IMMEDIATELY OF ANY POTENTIAL CONFLICTS WITH PROPOSED UTILITIES AND/OR FINISHED GRADES.

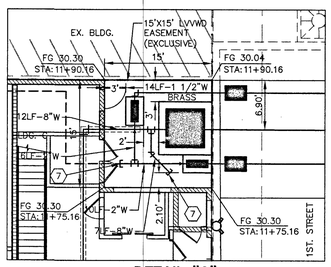
REDUCED PRESSURE DETECTOR ASSEMBLY (RPDA): (1) 8"

THE REDUCED PRESSURE DETECTOR ASSEMBLIES SHALL BE INSTALLED IN ACCORDANCE WITH THE U.D.A.C.S. 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 CONSTRUCTION.

REDUCED PRESSURE PRINCIPLE ASSEMBLY (RPPA): (2) 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.

GRAPHIC SCALE
20 0 10 20 40
(IN FEET)
1 inch = 20 ft.



DETAIL "A"
1"=10'

1	2/14/17	JWN	ADDED FDC, FIRE RISER ROOM & LATERAL TO BLDG. B
REV.:	DATE:	BY:	DESCRIPTION:

CLV SB 5-16-17

Lochsa engineering
6345 South Jones Blvd.
Suite 100
Las Vegas, NV 89118
Phone (702) 365-9312
Fax (702) 365-9317
www.lochsa.com

UTILITY PLAN
SHEET 1 OF 1

ART DISTRICT PLAZA
FOR
WORLD INVESTMENT NETWORK

SHEET	
TITLE	
PROJECT No.:	151057
DATE:	5/19/15
SCALE:	1"=20'
DRAWN BY:	CP
DESIGNED BY:	CP
CHECKED BY:	GMM

SEAL: GUY M. MORRIS, EXP. 12-31-17, CIVIL, No. 14526, STATE OF NEVADA, PROFESSIONAL ENGINEER — 2-27-17

SAFETY ALERT
Call Before You Overhead
1-702-227-2929
Call before you dig
Avoid cutting underground utility lines. It's costly.
Call before you UnderGround
1-702-432-5300
Call 811
OR
1-800-227-2600

SHEET No.
C3.00
SHEET 4 OF 7
HTE No.
HH60362 10706540

LEGEND

CL CR SURVEY LINE	EASEMENT LINE	DESCRIPTION:	CONTOUR LINES	EDGE OF PAVEMENT	"A" TYPE CURBS	"L" TYPE CURBS	WALLS	FENCES	AC PAVEMENT	CONCRETE	SPOT ELEVATIONS	SIGNS	MANHOLE W/ DESCRIPTION	MANHOLE DESCRIPTIONS	FIRE HYDRANTS	GATE VALVES	REDUCERS	CLEAN OUTS	UTILITY BOX OR VAULT	BACKWATER VALVES	100w HPS STREETLIGHTS	150w HPS STREETLIGHTS	200w HPS STREETLIGHTS	250w HPS STREETLIGHTS
PROPERTY LINE	SAWCUT LINE	EXISTING:	(2210)								(12.34) BC		Ⓢ	Ⓢ = SANITARY SEWER						BWV				
ROW LINE	SCARP LINE	PROPOSED:	2122								12.34 BC		Ⓢ	Ⓓ = STORM DRAIN Ⓔ = ELECTRICAL Ⓣ = TELEPHONE						BWV				

5/5/2017 4:07 PM
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