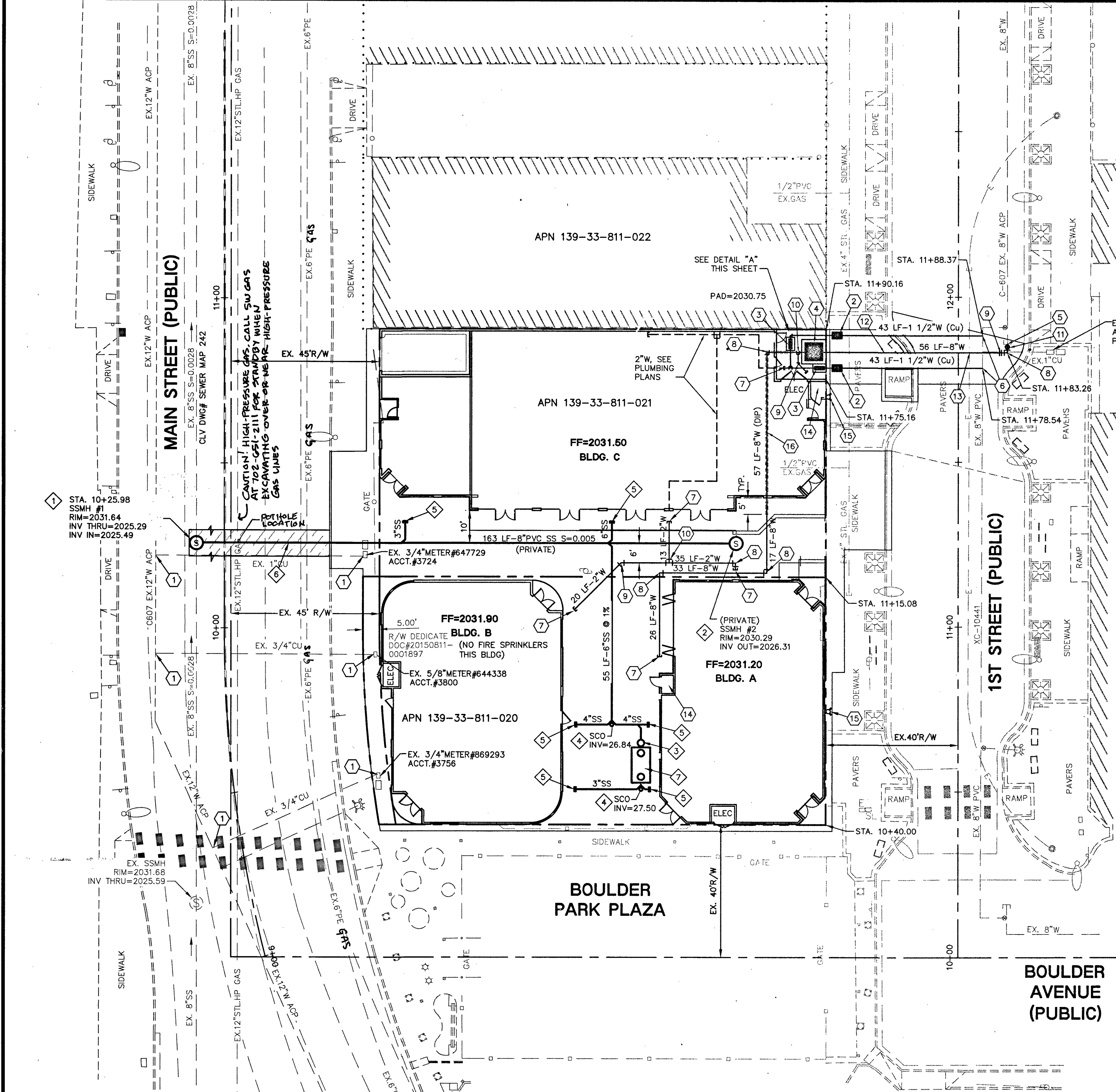


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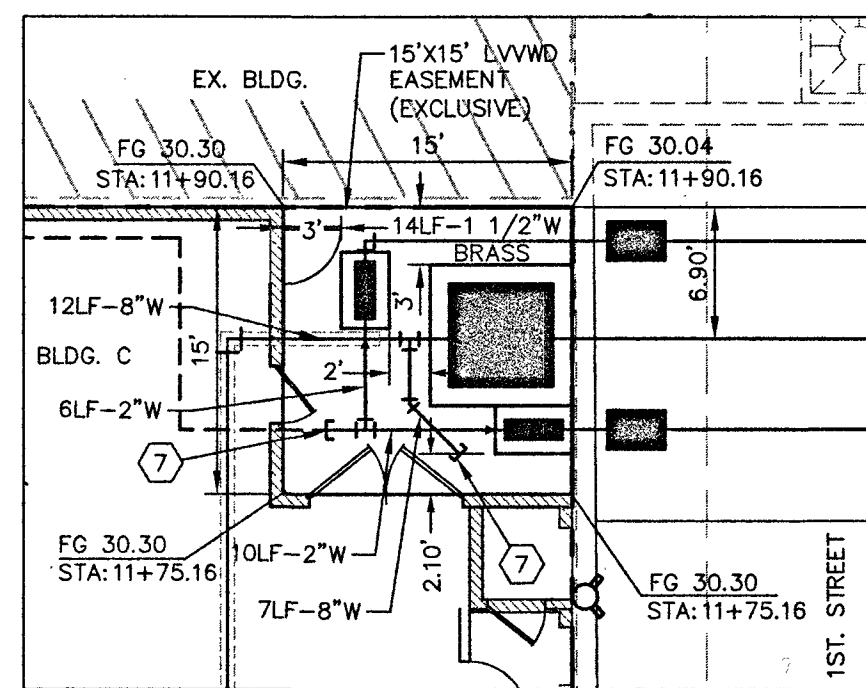
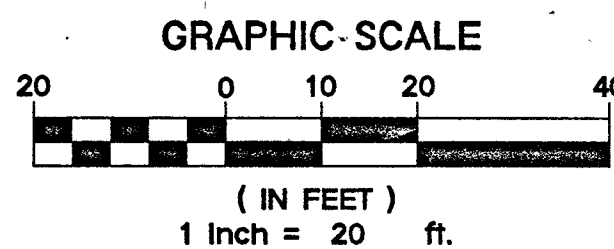


REDUCED PRESSURE DETECTOR ASSEMBLY (RPDA): (1) 8"

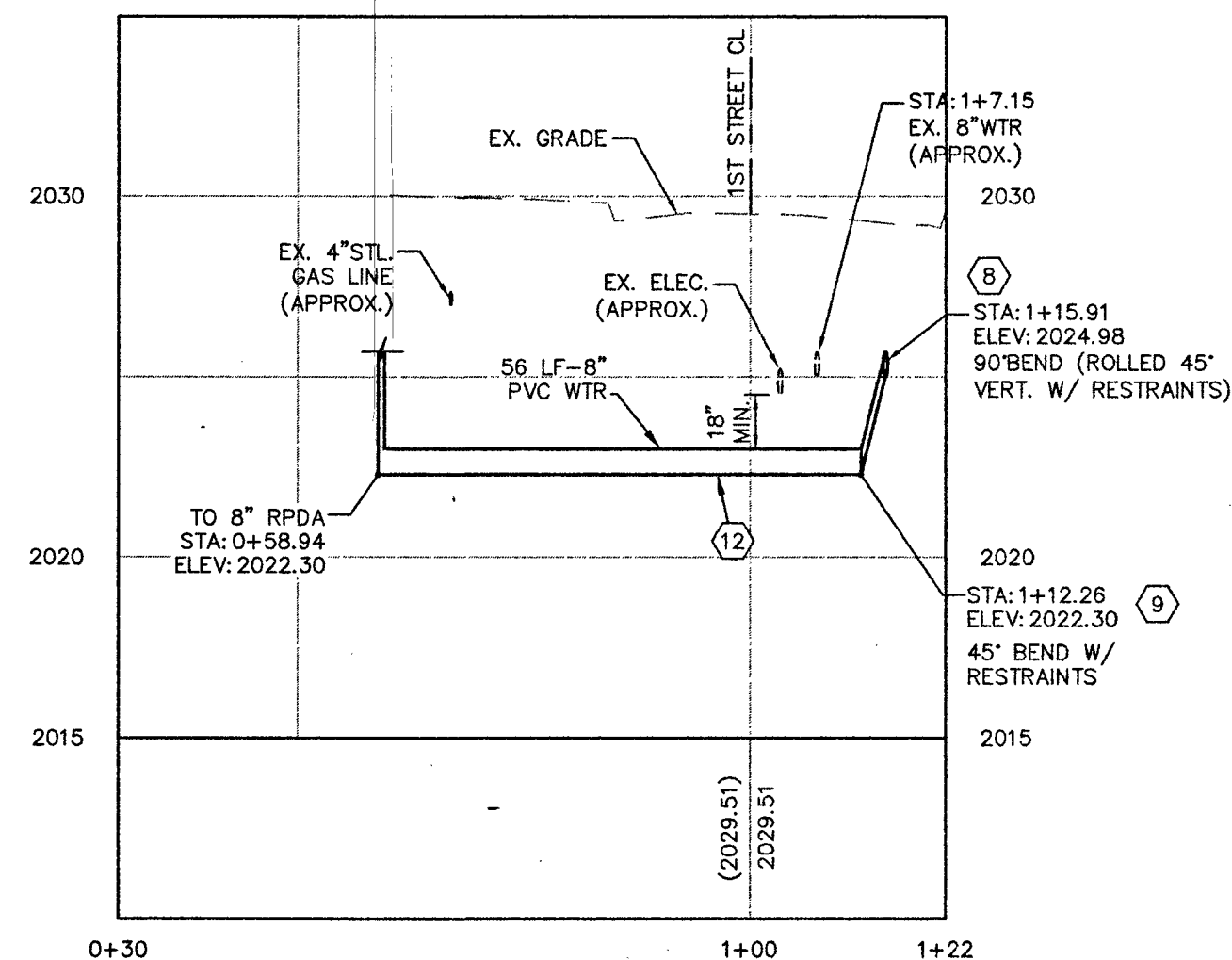
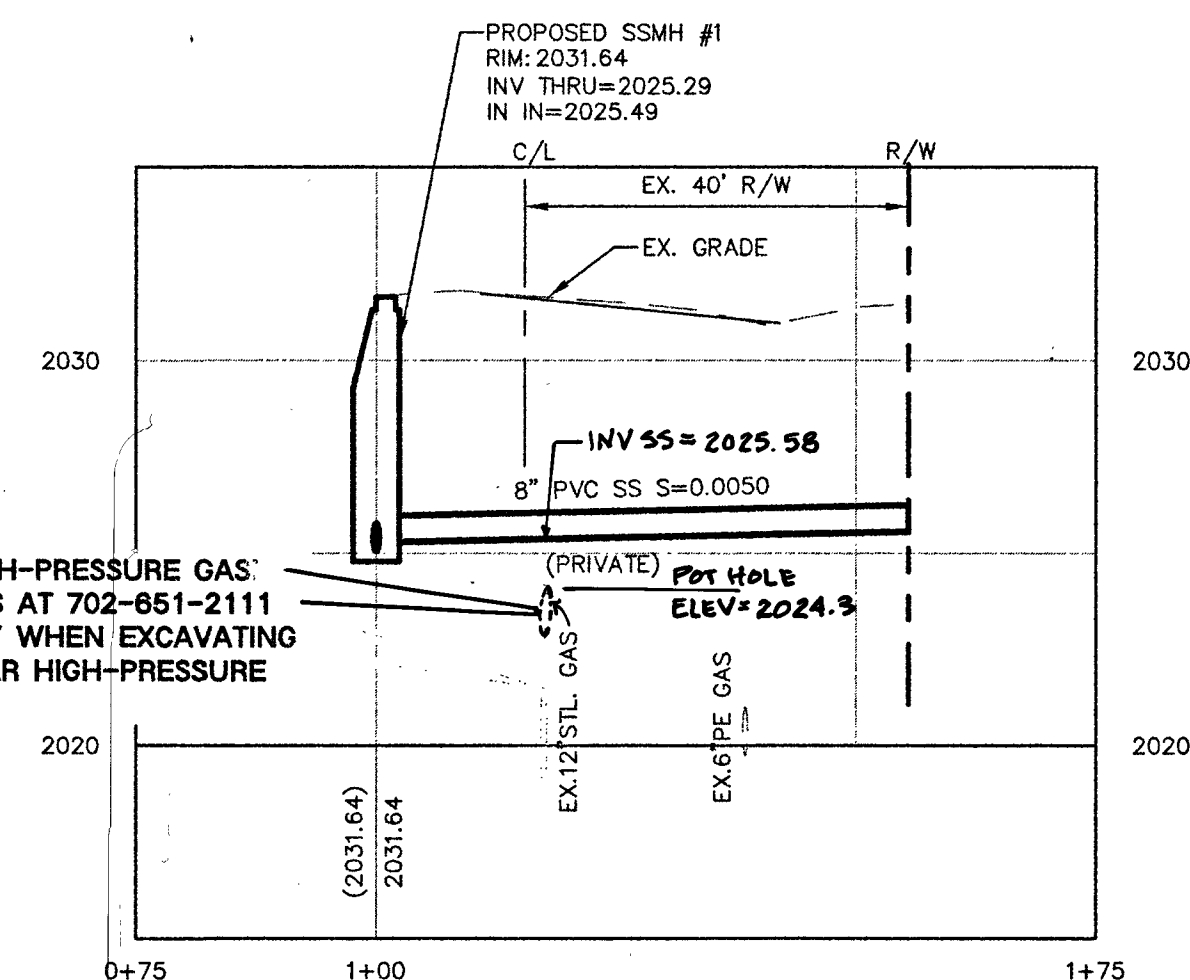
THE REDUCED PRESSURE DETECTOR ASSEMBLY SHALL BE INSTALLED IN ACCORDANCE WITH THE UDAC'S PLATE NO. 8. NO WATER SHALL BE TAKEN FROM A SERVICE REQUIRING BACKFLOW PREVENTION UNTIL THE ASSEMBLY HAS BEEN SUCCESSFULLY TESTED BY LVWD. ANY BLOCK WALL OR OTHER FENCE MATERIAL SHALL BE DESIGNED AND CONSTRUCTED AROUND THE OUTSIDE OF THE EASEMENT(S) SO AS TO ALLOW LVWD 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 UDAC'S 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 LVWD. ANY BLOCK WALL OR OTHER FENCE MATERIAL SHALL BE DESIGNED AND CONSTRUCTED AROUND THE OUTSIDE OF THE EASEMENT(S) SO AS TO ALLOW LVWD DIRECT ACCESS FROM THE ADJACENT RIGHT-OF-WAY. EASEMENTS SHALL BE CLEARLY MARKED OR STAKED PRIOR TO THE START OF CONSTRUCTION.



CAUTION: HIGH-PRESSURE GAS CALL SW GAS AT 702-651-2111 FOR STANDBY WHEN EXCAVATING OVER OR NEAR HIGH-PRESSURE GAS LINES



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

SEWER CONSTRUCTION NOTES:

- NOT ALL NOTES USED ON THIS SHEET
- INSTALL 30-1A SEWER MANHOLE OVER EXIST. SEWER MAIN PER DCSWCS STD NO. SD-7, CAST-IN-PLACE MANHOLE BASE. (SINGLE LID)
- INSTALL SPECIAL SHALLOW SEWER MANHOLE PER DCSWCS STD NO. SD-13B
- SAMPLE MH, SEE PLUMBING PLANS
- INSTALL SEWER CLEAN OUT PER DCSWCS STD NO. SD-26
- STUB AND CAP SEWER LATERAL, REFER TO PLUMBING PLANS FOR CONTINUATION
- TRENCH & BACKFILL PER DCSWCS STD NO. SD-18
- GREASE INTERCEPTOR, SEE PLUMBING PLANS

ABANDONMENT OF EXISTING SERVICE(S) - 2" AND SMALLER

THE CONTRACTOR SHALL NOTIFY THE INSPECTION DIVISION AT THE LVWD (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 LVWD COMMUNICATIONS 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.

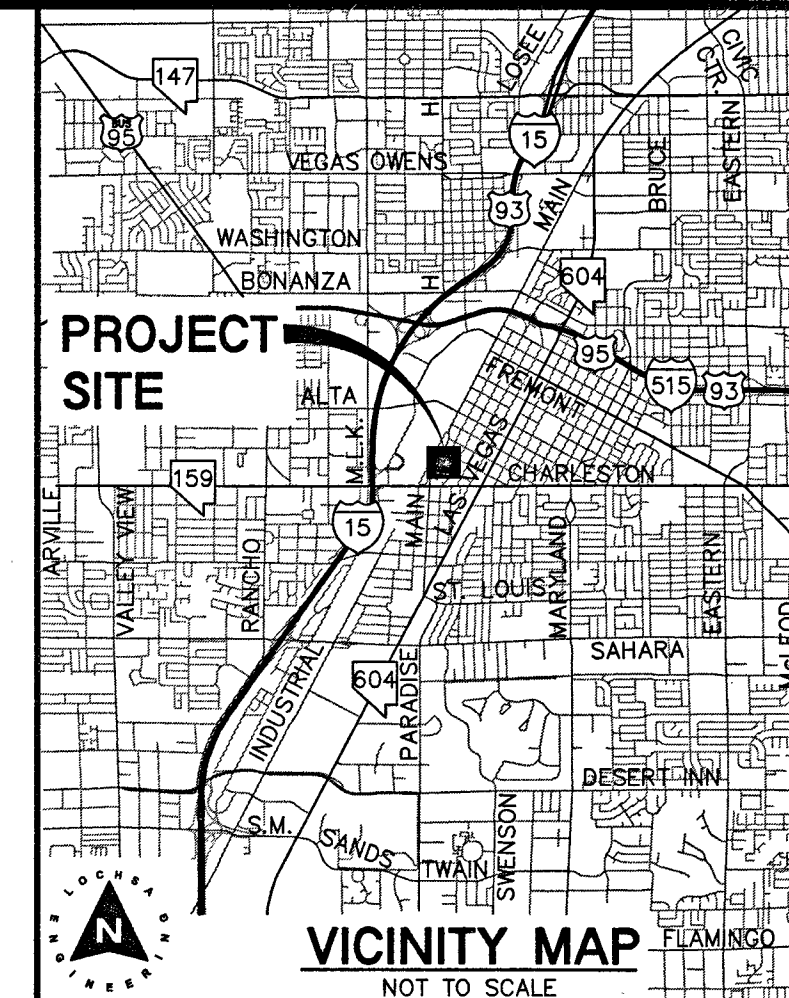
WARNING FIRE LINE (NON-POTABLE WATER)

ALL EXISTING, RELOCATED OR PROPOSED DCD/ARPA INSTALLATIONS:

*TO COMPLY WITH THE FEDERAL SAFE SPRINKLING 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.



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'	2nd 6'-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	NO	YES
FLOW REQUIRED @ 20 PSI RESIDUAL:	1,500	N/A	1,500
REVIEWED BY:	[Signature]		
DATE:	9/24/15		

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: [Signature] DATE: 9/24/15
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

BY: [Signature] DATE: 12/02/15
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES MANAGER
PROJECT NO. 123943
LVWD APPROVED FIRE FLOW = 1,500 GPM AT 20 PSI RESIDUAL

A.P.N.:

139-335-811-020 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 HOOPER 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 SW66 - 618.3645 MT. / 2028.75 FT. RIVET AND ROUND ALUMINUM PLATE IN THE TOP OF CURB, SOUTHEAST CORNER OF MAIN STREET AND HOOPER 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.

SAFETY ALERT

Call Before You Overhead
Call before you dig
Call before you dig

1-702-227-2929 150w HPS STREETLIGHTS 200w HPS STREETLIGHTS 250w HPS STREETLIGHTS

Lochsa Engineering

ART DISTRICT PLAZA FOR WORLD INVESTMENT NETWORK

UTILITY PLAN SHEET 1 OF 1

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

GUY M. MORRIS
CIVIL
No. 14520
9/17/15

SHEET NO. C3.00
4 OF 7
H4 00542
107V6540