

THE REDUCED PRESSURE DETECTOR ASSEMBLIES SHALL BE INSTALLED IN ACCORDANCE WITH THE 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 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 (5)-1 1/2"; (2)-2"; (1)-1"

THE REDUCED PRESSURE PRINCIPLE ASSEMBLY(S) SHALL BE INSTALLED IN ACCORDANCE WITH THE UDACS PLATE NO. 8. 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.

NOTE:

INSTALL PIPELINE MARKER BALLS IN TRENCH ABOVE EACH HORIZONTAL ELBOW FITTING, PER UDACS PLATE NO. 15.

FIRE WATER AT DOMESTIC 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 THE UDACS 2.23.01, 2.04.03, 2.22.02.B1, AND 2.22.02.B2.

NOTE:

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.

UDACS NOTE

ALL WATER FACILITIES CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE "UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR POTABLE WATER DISTRIBUTION SYSTEMS" UDACS, LATEST EDITION.

NOTE:

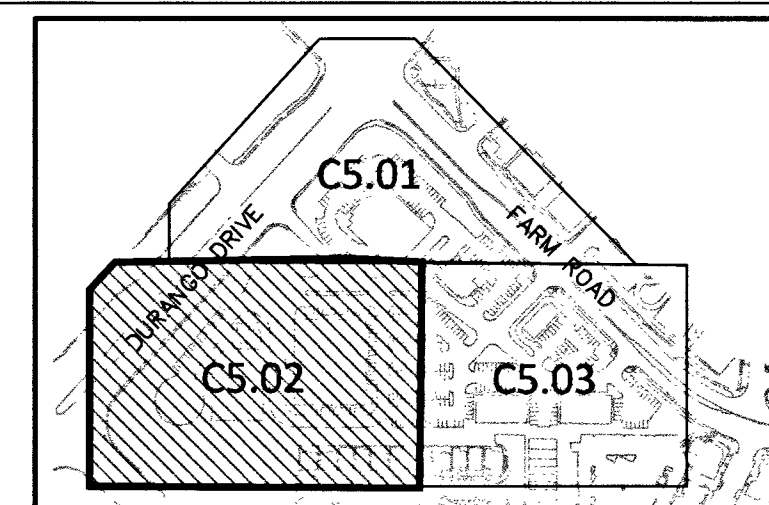
ALL ABOVE GROUND UTILITY APPURTENANCES SHALL CONFORM TO THE REQUIREMENTS OF TITLE 19.12.040.

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.

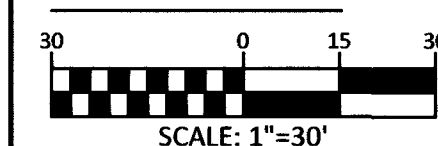
WARNING FIRE LANE (NON-POTABLE WATER)
ALL EXISTING, RELOCATED OR PROPOSED DCDA/RPDA
INSTALLATIONS

PROTECT IN PLACE AND ADJUST LVVWD EXISTING FACILITIES TO FINISHED GRADE. ALL LVVWD FACILITIES SHALL BE ACCESSIBLE AT ALL TIMES.



KEY MA

GRAPHIC SCALE



BASIS OF BEARING

SOUTH 00'0657 WEST, BEING THE WEST LINE OF THE GOVERNMENT LOT 11, LYING WITHIN THE SOUTHWEST QUARTER (SW 1/4) OF SECTION 17, TOWNSHIP 19 SOUTH, RANGE 60 EAST, M.D.M., AS SHOWN IN BOOK 140, PAGE 12 OF PLATS IN THE CLARK COUNTY, NEVADA, RECORDER'S OFFICE.

BENCHMARK

CITY OF LAS VEGAS BENCHMARK # 5LV90 17S6

A RIVET AND PLATE IN THE TOP OF CURB AT THE NORTHWEST CORNER OF OSO BLANCA ROAD AND DURANGO DRIVE.

NAVD 88 ELEVATION = 798.4331 METERS / 2619.53 FEET
NORTH AMERICAN DATUM OF 1988

WATER CONSTRUCTION NOTES

NO.	ITEM	UDACS: PLATE NO. PER UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR WATER DISTRIBUTION SYSTEMS
①	INSTALL PVC WATER LINE (C-900) (SIZE PER PLAN) PER UDACS PLATE NO.	
②	INSTALL 45° BEND (SAME SIZE AS LINE) PER UDACS PLATE NO. 31.	
③	INSTALL 90° BEND (SAME SIZE AS LINE) PER UDACS PLATE NO. 31.	
④	INSTALL TEE (SIZE PER PLAN) PER UDACS PLATE NO. 31.	
⑤	INSTALL FIRE HYDRANT ASSEMBLY PER UDACS PLATE NO. 40.	
⑥	INSTALL GATE VALVE (SAME SIZE AS LINE) PER UDACS PLATE NO. 30 & 39.	
⑦	INSTALL 12"x8" TAPPING SLEEVE W/8" TAPPING VALVE PER UDACS PLATE NO. 34 & SEC 2.24.01.	
⑧	INSTALL 8" RPD PER UDACS PLATE NO. 59.	
⑨	POINT OF CONNECTION. SEE PLUMBING PLANS FOR CONTINUATION.	
⑩	INSTALL COPPER TYPE "K" WATER LINE (SIZE PER PLAN) PER UDACS PLATE NO. 4.	
⑪	INSTALL PVC WATER LINE (SIZE PER PLAN) PER UDACS PLATE NO. 17.	
⑫	INSTALL 12"x 2" SERVICE SADDLE PER UDACS PLATE NO. 4.	
⑬	INSTALL 12"x 1 1/2" SERVICE SADDLE PER UDACS PLATE NO. 4.	
⑭	INSTALL 12"x 1" SERVICE SADDLE PER UDACS PLATE NO. 4.	
⑮	INSTALL 2" DOMESTIC METER PER UDACS PLATE NO. 4 WITH 2" RPPA PER UDACS PLATE NO. 8.	
⑯	INSTALL 1 1/2" DOMESTIC METER PER UDACS PLATE NO. 4 WITH 1 1/2" RPPA PER UDACS PLATE NO. 8.	
⑰	INSTALL 1" DOMESTIC METER PER UDACS PLATE NO. 4 WITH 1" RPPA PER UDACS PLATE NO. 8.	
⑱	POINT OF CONNECTION. SEE LANDSCAPING PLANS FOR CONTINUATION.	
⑲	RELOCATE EXISTING FIRE HYDRANT PER NOTE.	

SEWER CONSTRUCTION NOTES

NO.	ITEM
	*SS STD PER DESIGN AND CONSTRUCTION STANDARDS FOR WASTEWATER COLLECTION SYSTEMS
1	INSTALL PVC SEWER LINE (SDR-35) PER DCSWGS, DWG. NO. SD-15, DWG. NO. SD-17. (PAVED AREA)
2	INSTALL WYE PER DCSWGS DWG. NO. SD-22 AND DETAIL 'U' SHEET C8.01.
3	REMOVE EXISTING CAP AND CONNECT TO EXISTING SEWER MAIN.
4	INSTALL 48" SSMH PER SD1-A, SD1B AND SD-4.
5	POINT OF CONNECTION. SEE PLUMBING PLANS FOR CONTINUATION AND USE.
6	INSTALL 60" SSMH PER SD-1A, SD-1B AND SD-4.
7	INSTALL 6" CLEAN-OUT PER DCSWGS DWG. NO. SD-26
8	STORM DRAIN/EXIST. WATER LINE CROSSING. PER UDACS PLATE NO. 21 SEE SHEET C5.05
9	INSTALL SEWER BACK WATER VALVE SAME SIZE AS LINE SHOWN.

BUILDING A

FIRE FLOW INFORMATION BLOCK

USE/OCCUPANCY M
TYPE OF CONSTRUCTION III B
FIRE FLOW 2375 GPM @ 20 PSI
AUTOMATIC FIRE SPRINKLERS X YES/NO
NFFPA 13 X 13R 130
ESFR YES/NO
SQAURE FOOTAGE 30,000
LARGEST AREA BETWEEN 4 HOUR WALLS NO
BUILDING HEIGHT 25' 0"
OF STORIES INCLUDING BASEMENT 1
HIGH PILED COMBUSTIBLE STORAGE YES/NO X
OF HYDRANTS INSTALLED 3

9K 9mth 10/6/11
LAS VEGAS FIRE & RESCUE DA

APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES MANAGER

DATE: 10/24/16 PROJECT NO: 124683

LWWD APPROVED FIRE FLOW 1275 GPM AT 20 PSI RESIDUAL

SHEETS: C1.01, C1.02, C4.05-C4.09, C4.10, C4.11, C4.12, C4.13, C5.01, C5.02

BUILDING C

FIRE FLOW INFORMATION BLOCK

USE/OCCUPANCY W/A-2

TYPE OF CONSTRUCTION V-B

FIRE FLOW 1500 GPM @ 20 PSI

AUTOMATIC FIRE SPRINKLERS X YES/NQ

NFPA 13 X 13R 13D

ESFR X YES/NQ

SQAURE FOOTAGE 6,600

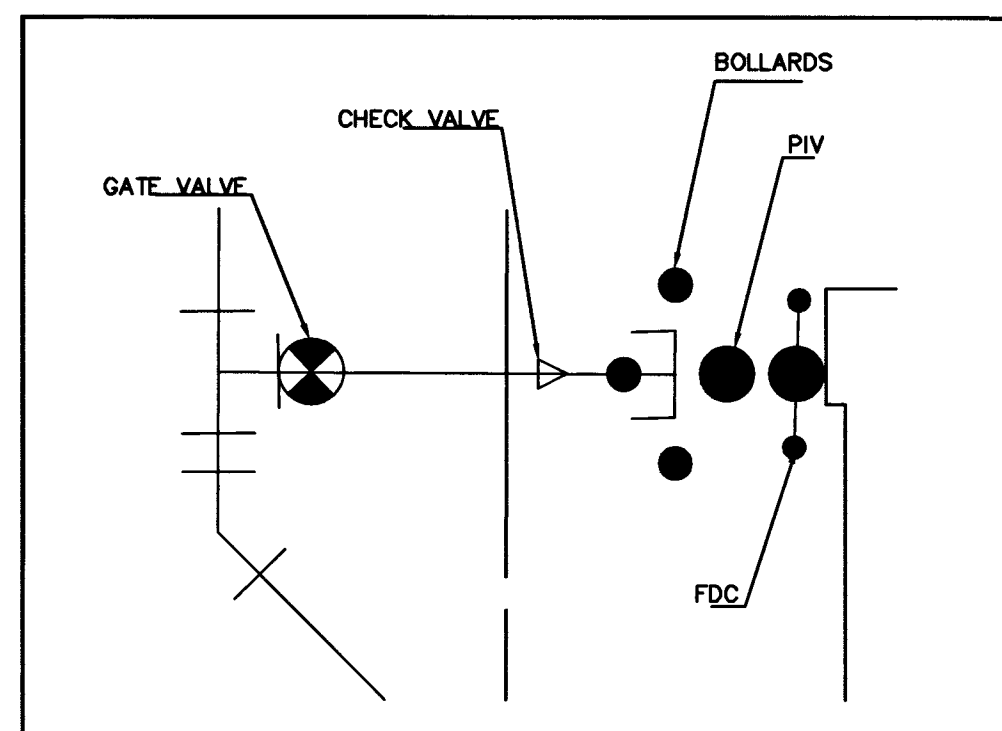
LARGEST AREA BETWEEN 4 HOUR WALLS NQ

BUILDING HEIGHT 25'

OF STORIES INCLUDING BASEMENT 1

HIGH PILED COMBUSTIBLE STORAGE YES/NO X

OF HYDRANTS INSTALLED 2



DETAIL "A"

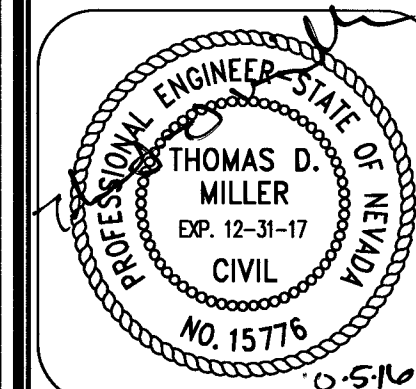
1"=10'

[illegible]

CALL BEFORE YOU DIG AVOID CUTTING UNDERGROUND UTILITY LINES. IT'S COSTLY Call 811 1-800-227-2600	AVOID HITTING UNDERGROUND UTILITY LINES. IT'S COSTLY.  CALL BEFORE YOU DO UNDERGROUND WORK CALL 1-702-432-5300 (TOLL FREE) (NORTH AMERICA) (EXCEPT ALASKA)
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ENGINEERS**
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FAX: (702) 248-8070
www.collinsengr.com



IMPROVEMENT PLANS FOR DC PLAZA
APN:125-17-601-007,010,013,020 AND 021

UTILITY PLAN
8451 FARM ROAD
LAS VEGAS, NEVADA

DESCRIPTION		DESIGN BY	DATE	NO.
CEI PROJECT:		4136		
DESIGN BY:		JDM SR		
DRAWN BY:		JDM SR		
CHECKED BY:		TDM P.E.		
DATE: 09/19/16				
SCALE: 1"=30'				
SHEET NUMBER C5.02				
SHEET 21 OF 46				
107V6734		H#64486		