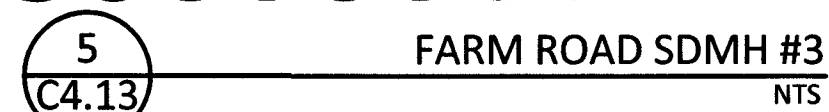




STORM SEWER TWENTY FOUR(24) INCHES IN DIAMETER OR GREATER MAY BE INSTALLED WITH WATERTIGHT JOINTS USING AGENCY APPROVED INTERNAL ELASTOMERIC JOINT SEALANT, IN COMPLIANCE WITH ASTM C920, OR JOINT GASKETS, WITH PROVISIONS TO INSURE AGAINST DIFFERENTIAL SETTLEMENT OF THE STORM DRAIN.

AT MANHOLE INSTALLATION USE A WATERTIGHT GASKET BY A-LOK, KOR-N-SEAL OR APPROVED EQUAL.



LEGEND

EXISTING	PROPOSED	
(0.00) XXX	0.00 XXX	ELEVATION TAG
		DRAIN INLET
		RETAINING WALL
		SCREEN WALL
		UTILITY POLE
		STREET LIGHT

EXISTING	PROPOSED	
--E--	--E--	POWER LINE/POLE
--T--	--T--	TELEPHONE LINE
--W--	--W--	WATER LINE
--SS--	--SS--	SANITARY SEWER LINE
--D--	--D--	STORM SEWER LINE
--G--	--G--	GAS LINE
(M)	(M)	STORM MANHOLE

EXISTING	PROPOSED	
		FIRE HYDRANT
		FIRE DEPARTMENT CONNECTION
		WATER VALVE
		REDUCER
		SEWER MANHOLE
		CLEANOUT
		GAS VALVE

EXISTING	PROPOSED	
		PL-RIGHT-OF-WAY
		PL-ADJACENT
		CENTERLINE
		EASEMENT LINE
		FLOW LINE
		SIGN W/POLE
		SAWCUT LINE
		AREA LIGHT
		WATER METER

EXISTING	PROPOSED	
		AC PAVEMENT
		6" TYPE "A" CURB
		24" TYPE "L" CURB & GUTTER
		30" ROLL CURB
		BACK WATER VALVE

1st Submittal 10/24/16 APPROVED FOR CONSTRUCTION

Y *ISHAQ: ER* *[Signature]*

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES MANAGER

DATE: *5/31/17* PROJECT NO: 1246631

LVWD APPROVED FIRE FLOW 1875 GPM AT 20 PSI RESIDUAL

SHEETS: C1.01, C1.02, C4.03, C4.06, C4.07, C4.09, C4.10, C4.11, C4.12, C4.13, C5.01, C5.02, C5.03, C5.04, (C5.11, C5.12 NDOT).

NOTE:
ALL ONSITE STORM DRAIN SYSTEMS AND THE ASSOCIATED FACILITIES ARE PRIVATELY OWNED AND TO BE PRIVATELY MAINTAINED BY THE OWNERS/HOA.

FLOOD ZONE NOTE:
THE PROJECT SITE LIES WITHIN ZONE X AS PER FEMA FIRM
PANEL 32003C1745E DATED NOVEMBER 16, 2011.

OFFSITE IMPROVEMENTS

SEE SHEETS C4.05-C4.08 FOR OFFSITE IMPROVEMENT PLANS

ALL GRADING WORK SHALL BE IN STRICT ACCORDANCE WITH THE
SOILS REPORT FOR THE SITE ENTITLED "PROPOSED COMMERCIAL
DEVELOPMENT SOUTH CORNER OF DURANGO DR. AND FARM RD.

PROJECT NO.: 4125XD130, DATED DECEMBER 22, 2015

PREPARED BY: WESTERN TECHNOLOGIES INC.
6633 WEST POST ROAD
LAS VEGAS, NV 89118
PHONE NO. (702) 798-8050
FAX NO. (702) 798-7664

ALL WORK SHALL BE PERFORMED UNDER THE DIRECTION OF A REGISTERED PROFESSIONAL SOILS ENGINEER.

I CERTIFY THAT THIS GRADING PLAN CONFORMS TO THE THE
APPROVED DRAINAGE STUDY FOR THIS SITE ON FILE WITH THE
CITY OF LAS VEGAS. DS# 4710A

THOMAS D. MILLER - 15776

107V 6734

CALL BEFORE YOU DIG
AVOID CUTTING UNDERGROUND
UTILITY LINES. IT'S COSTLY.

Call
811
or
1-800-227-2600

FAST
Call
before you
Underground
1-702-432-5300
FREEWAY AND ARTERIAL
SYSTEM OF TRANSPORTATION

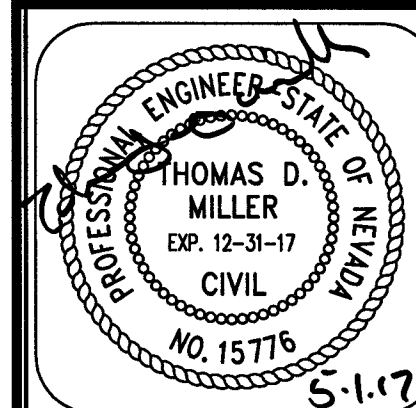
AVOID HITTING OVERHEAD
POWER LINES. IT'S COSTLY.

CALL BEFORE
YOU DO
OVERHEAD
WORK



1-702-227-2929

COLLINS ENGINEERS ASSUMES NO RESPONSIBILITY FOR EXISTING UTILITY LOCATIONS AND ELEVATIONS. THE UTILITIES SHOWN ON THIS DRAWING HAVE BEEN PLOTTED FROM THE BEST AVAILABLE INFORMATION. IT IS, HOWEVER, THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE LOCATION AND ELEVATION OF ALL UTILITIES PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION. CONTRACTOR TO FIELD VERIFY ALL EXISTING SITE CONDITIONS PRIOR TO CONSTRUCTION. IF A CONFLICT EXISTS BETWEEN WHAT IS SHOWN ON THESE DRAWINGS AND WHAT EXISTS IN THE FIELD, THE CONTRACTOR IS TO NOTIFY THE ARCHITECT OR ENGINEER IMMEDIATELY.



IMPROVEMENT PLANS FOR DC PLAZA

APN:125-17-613-001

STORM DRAIN LATERALS

8451 FARM ROAD
LAS VEGAS, NEVADA

NO.	DATE	DESIGN BY	DESCRIPTION
Δ	3/13/17	APPO:Jm 5/15/17	LATERAL FOR SDMH #4A REMOVED
CEI PROJECT:			4136
DESIGN BY:		JDM	SR
DRAWN BY:		JDM	SR
CHECKED BY:		TDM	P.E.

DATE:
03/13/17

SCALE:
1"=30'

SHEET NUMBER
C4.13

SHEET 19 OF 45

H # 64486