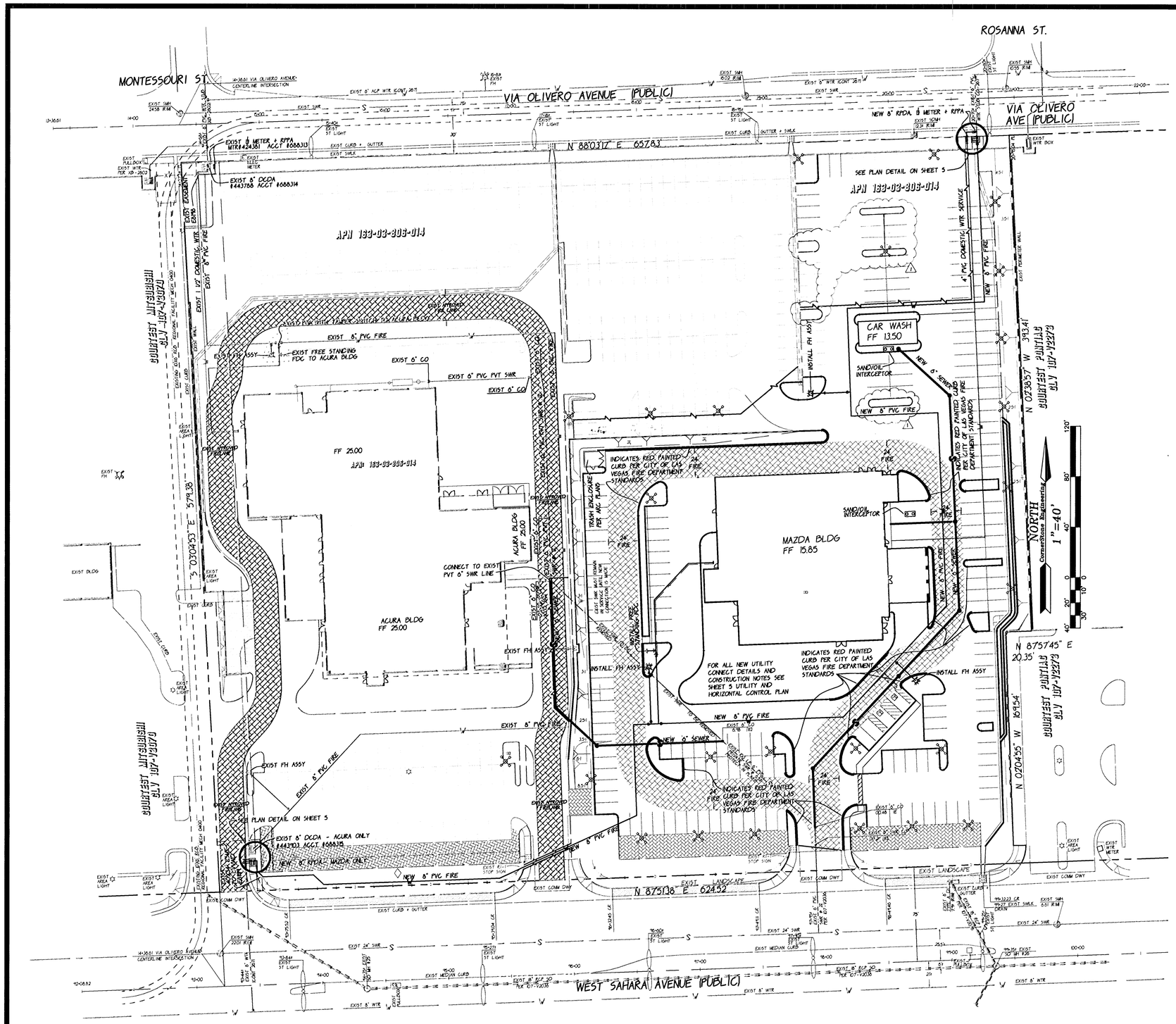
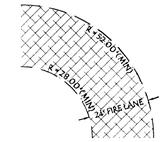
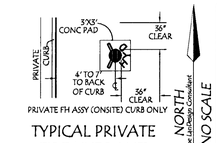




FIRE LANE TURNING RADIUS DETAIL

NO SCALE



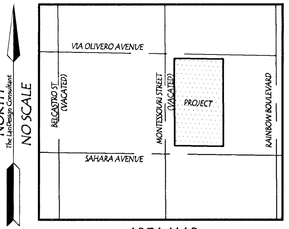
TYPICAL PRIVATE FIRE HYDRANT LOCATION DETAIL

NO SIDEWALK

NO SCALE

NORTH

The LanDesign Consultant



AREA MAP

NO SCALE

BASIS OF BEARING

NORTH 87° 51' 38" EAST - BEING THE SOUTH LINE OF THE SOUTHEAST QUARTER (SE 1/4) OF THE SOUTHEAST QUARTER (SE 1/4) OF SECTION 3, TOWNSHIP 21 SOUTH, RANGE 60 EAST, M.D.M., CLARK COUNTY, NEVADA AS SHOWN BY FILE 115, PAGE 25 OF PARCEL MAPS IN THE OFFICE OF THE CLARK COUNTY RECORDER.

BENCHMARK

CITY OF LAS VEGAS BENCHMARK NUMBER DLV1085568 BEING A RIVET AND PLATE IN THE TOP OF CURB AT THE NORTHEAST CORNER OF SAHARA AND MONTESSOURI
ELEV. = 737.765 METERS = 2420.48 FEET (NAVD 88)
CONVERSION:
1 METER * (3937/1200) = 1 US SURVEY FOOT

REVISION	REVISION DATE	REVISION DESCRIPTION	APPROVED BY	APPROVED DATE
1	11.6.12 BDR	ADDED LANDSCAPE ISLAND FINGERS		11/21/2012

AVOID HITTING UNDERGROUND TRAFFIC SIGNAL SYSTEMS AND STREET LIGHT SYSTEMS CONDUITS, IT'S COSTLY
CALL BEFORE YOU UNDERGROUND
702-432-5500 LAS VEGAS COMPUTERIZED TRAFFIC SYSTEM

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

AVOID CUTTING UNDERGROUND UTILITIES, IT'S COSTLY
CALL 811
OR
1-800-227-2600
AND
CLARK COUNTY TRAFFIC OPERATIONS
1-702-455-7544

NOTE:
The LanDesign Consultant
ASSUMES NO RESPONSIBILITY FOR EXISTING UTILITY LOCATIONS, SHOWN OR NOT SHOWN. THE UTILITIES SHOWN ON THIS DRAWING HAVE BEEN PLOTTED FROM RECORD INFORMATION AND ARE ONLY INTENDED FOR THE CONVENIENCE OF THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY THE DEPTHS AND LOCATIONS OF ANY AND ALL RELEVANT UTILITIES PRIOR TO COMMENCING WITH CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE TO NOTIFY THE ENGINEER OF RECORD, IN WRITING, OF ANY CONFLICTS OR DISCREPANCIES, IMMEDIATELY.

EXIST ACURA BUILDING

FIRE FLOW DATA CALCULATIONS

BUILDING HEIGHT: 29 FT
NUMBER OF STORIES: 2 FLOOR(S)
OCCUPANCY: B,H4,S2
TYPE OF CONSTRUCTION: III-B
LARGEST BUILDING AREA: 46,816 SQ FT
LARGEST AREA BETWEEN 4-HR AREA SEPARATION WALLS: 55,681 FT
HIGH PILED STORAGE: NO
FULL AUTOMATIC FIRE SPRINKLER SYSTEM: YES

MINIMUM FIRE FLOW REQUIRED AT 20 PSI RESIDUAL: 2,000 GPM

CALCULATIONS:
FIRE FLOW REQUIREMENT, BASED ON UFC APPENDIX A-III-A-1 = 4,000 GPM
REDUCTION FOR FIRE SPRINKLERS 50% = 2,000 GPM
CALC 2,000 - 2,000 = 2,000

PROPOSED MAZDA BUILDING

FIRE FLOW DATA CALCULATIONS

BUILDING HEIGHT: 28 FT
NUMBER OF STORIES: 1 FLOOR(S)
OCCUPANCY: B,S1,S2
TYPE OF CONSTRUCTION: V-B
LARGEST BUILDING AREA: 19,500 SQ FT
LARGEST AREA BETWEEN 4-HR AREA SEPARATION WALLS: N/A FT
HIGH PILED STORAGE: NO
FULL AUTOMATIC FIRE SPRINKLER SYSTEM: YES

MINIMUM FIRE FLOW REQUIRED AT 20 PSI RESIDUAL: 1,875 GPM

CALCULATIONS:
FIRE FLOW REQUIREMENT, BASED ON UFC APPENDIX A-III-A-1 = 3,750 GPM
REDUCTION FOR FIRE SPRINKLERS 50% = 1,875 GPM
CALC 3,750 - 1,875 = 1,875

WASTEWATER FLOW CALCULATIONS

FACILITY TYPE: AUTO DEALERSHIP TOTAL UNITS: 1
AVERAGE FLOW IN MGD: 0.0028 PEAK FLOW IN MGD: 0.0098

CALCULATIONS
EST FLOW RATE: 0.45 ERU'S / FIXTURE NO OF FIXTURES: 25
AVERAGE FLOW: 25 * 0.45 ERU'S * 0.000250 MGD = 0.0028 MGD
PEAK FACTOR FROM TABLE C, PAGE T-8, DCSWCS: 3.5 GENERAL CURVE
PEAK FLOW: AVERAGE FLOW * 3.5 = 0.0098 MGD

INSTALLATION OF REDUCED PRESSURE DETECTOR ASSEMBLY:

2 ~ 8"

THE REDUCED PRESSURE DETECTOR ASSEMBLIES SHALL BE INSTALLED IN ACCORDANCE WITH THE UDACS PLATE 56.

ANY BLOCK WALL OR OTHER FENCE MATERIAL SHALL BE DESIGNED AND CONSTRUCTED AROUND THE OUTSIDE OF THE EASEMENT, SO AS 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.

REDUCED PRESSURE PRINCIPLE ASSEMBLY

1 ~ 11/2"

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 DISTRICT.
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.

LVVWD NOTES

SERVICE LATERALS FOR LOT WILL BE TAPPED ON EXISTING STUB BY OWNERS CONTRACTOR UNDER DIRECTION OF THE LVVWD.

THE DISTRICT CANNOT GUARANTEE A WATERTIGHT SHUTDOWN WHERE CONNECTIONS OR REPAIRS TO EXISTING FACILITIES ARE REQUIRED. THE CONTRACTOR SHALL ENSURE ALL LABOR AND EQUIPMENT IS AVAILAUBLE TO REMOVE FUGITIVE WATER THAT MAY IMPEDE CONSTRUCTION AT ALL TIMES. COORDINATION WITH INSPECTION DIVISION MUST TAKE PLACE PRIOR TO ANY TRIAL SHUTDOWN.

CONTRACTOR TO INSTALL TEMPORARY SERVICE TO ENSURE PROPER SHUTDOWN IN THE EVENT NO OTHER APPURTENANCES ARE AVAILABLE.

FIRE HYDRANT INSTALLATION

FIRE HYDRANT(S) SHALL BE INSTALLED IN ACCORDANCE WITH THE UDACS STANDARD PLATE NO 40

CONSTRUCTION NOTE:

ALL EXISTING UTILITY STRUCTURES WITHIN CONSTRUCTION AREA SHALL BE ADJUSTED TO MATCH FINISH GRADE (IE: WV, BOX, WMH, ANNODE BOX, FH, TEL BOX, ETC)

NOTE:

ALL DIMENSIONS TO UTILITIES ARE TO CENTERLINE OF PIPE UNLESS INDICATED OTHERWISE. CONTRACTOR SHALL VERIFY HORIZONTAL AND VERTICAL ALIGNMENT OF EXISTING UTILITIES AND NOTIFY THE ENGINEER OF WORK IMMEDIATELY OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.

NOTE

DISPOSAL OF ASBESTOS CEMENT PIPE SHALL BE IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS

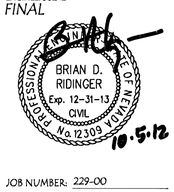
APPROVED — LAS VEGAS FIRE & RESCUE
BY: [signature] DATE: 10/9/12

APPROVAL OF THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR OR AN APPROVAL OF ANY VIOLATION OF THE PROVISIONS OF THE STATE, COUNTY OR CITY LAWS
FIRE FLOW 1875 GPM @ 20 PSI RESIDUAL

APPROVED FOR CONSTRUCTION
FOR DM
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES MANAGER
PROJECT NO. 117372 DATE: 10/9/12
Approved Fire Flow-ACURA 2000 GPM, MAZDA 1,875 GPM @ 20 psi Residual

MASTER UTILITY AND FIRE PLAN

ENGINEERS SEAL
FINAL



PLANET MAZDA
LAS VEGAS
WEST SAHARA AVE

SHEET 4 OF 8

JOB NUMBER: 229-00
DATE: OCT 5, 2012
FILENAME: .
XREF FILES: 229-MST.DWG
XREF FILES:
XREF FILES:

107V 5888
CLV 46359

The LanDesign Consultant
insightful solutions for land development
1154 Castle Point Ave
Henderson, NV 89074
TEL 702-547-0047

2033 Rem
2307

LEGEND

DESCRIPTION		1" CURB	6"/4" CURB	WALL RETAINING	WALL PERIMETER	FENCE	VALLEY GUTTER	P/MT EDGE SAWCUT	CONDUIT	ST LITE CONDUIT	ST LIGHT	TRAFFIC SIGN	CONTOUR	ELEV TAG	SLOPE TAG	SLOPE	SWALE	FH/VALVE/ REDUCER	SWR/WTR/SD	VAULT / PP	METER RPPA DCDA/RPDA
BOUNDARY	PROPOSED													10.3 FG	1%						
RIGHT OF WAY														10.2 (FG)	(1%)						
CENTERLINE	EXISTING																				
LOTLINE																					

ABBREVIATIONS

AC	ASPHALT	CO	CLEANOUT	ELEC	ELECTRICAL	FDC	FIRE DEPT CONNECT	GB	GRADE BREAK	NG	NATURAL GRADE	PL	PROPERTY LINE	R/W	RIGHT OF WAY	SVZ	SIGHT VISIBILITY ZONE
CATV	CABLE TV	CONC	CONCRETE	EOP	EASEMENT	FG	FINISH GRADE	IE	INVERT ELEV	OH	OVERHEAD	PP	POWER POLE	SD	STORM DRAIN	TBC	TOP BACK OF CURB
CL	CENTER LINE	DI	DROP INLET	EXMT	EXISTING	FH	FIRE HYDRANT	LF	LINEAL FEET	PE	POLYETHYLENE	PVC	POLYVINYL CHLORIDE	SDMH	STORM DRAIN MH	TELE	TELEPHONE
CR	CURB RETURN	DOM	DOMESTIC	EXIST	FINISH FLOOR	FL	FLOWLINE	LP/HP	LOW / HIGH POINT	PIV	POST INDICATOR VALVE	PVMT	PAVEMENT	SMH	SEWER MANHOLE	UG	UNDERGROUND
		DWY	DRIVEWAY	FF				LT/RT	LEFT / RIGHT					SWR	SEWER	VG	VALLEY GUTTER