

Avoid cutting underground utility lines. It's costly.

Call before you Dig.

1-800-227-2600

UNDERGROUND SERVICE ALERT (USA)

SAFETY ALERT

Call before you Overhead

593-6111

OVERHEAD SERVICE ALERT

ABBREVIATIONS

ABAN	ABANDON	FA	FIRE ALARM	ROB	REINFORCED CONCRETE BOX
AC	ASPHALTIC CONCRETE	FD	FOUND	RCP	REINFORCED CONCRETE PIPE
ACP	ASBESTOS CEMENT PIPE	FL	FLOW LINE	RELOC	RELOCATE
AGG	AGGREGATE	FG	FINISH GRADE	R/W, ROW	RIGHT OF WAY
ALT	ALTERNATE	FH	FIRE HYDRANT	RD	ROAD
A	ANODE, GAS	FO	FIBER OPTIC CABLE	SS	SANITARY SEWER
APPROX	APPROXIMATE	FT	FOOT/FEET	SHT	SHEET
AVE	AVENUE	FUT	FUTURE	S/L	STREETLIGHT
BCR	BACK OF CURB RETURN	GALV	GLAZIENED	S/O	SOUTH OF
BOC/BC	BACK OF CURB	GM	GAS METER	SW	SIDEWALK
BOB	BASIS OF BEARINGS	GR	GAS PRESSURE REGULATOR	SQ FT, SF	SQUARE FOOT
BM	BENCHMARK	GV	GAS VALVE	SQ YD, SY	SQUARE YARD
BDRY LINE	BOUNDARY LINE	HW	GUY WIRE SCALE	STA	STATION
B/W, BW	BACK OF SIDEWALK	PE	POLYETHYLENE	STD	STEEL HIGH PRESSURE PIPE
C-CL	CENTERLINE	STL	STEEL	STD	STORM DRAIN
C-C	CENTER TO CENTER	SB	SEWER BREAK	STRUCT	STRUCTURAL OR STRUCTURE
CALC'D	CALCULATED	QUT	GUTTER	SURV	SURVEY
CATV	CABLE TELEVISION	HDWL	HEAD WALL	SL	STREETLIGHT
C.A.T.	CITY OF LAS VEGAS	HORIZ, H	HORIZONTAL	SLOPE=XX	SLOPE=XX
CLV	CITY OF NORTH LAS VEGAS	IMP	IMPROVEMENT(S)	S-XX	SIDEWALK
CNVL	CLARK COUNTY	IN	INCH	S/W, SW	TEMPORARY
CCSD	CLARK COUNTY SANITATION DISTRICT	INT	INTERSECTION	T	TEMPORARY
CCASD	CLARK COUNTY AREA STANDARD DRAWINGS	INVT	INVERT	TBA	TO BE ADJUSTED
CND'T	CONDUIT	ISL	ISLAND	TBR	TO BE REMOVED
CO	COMMERCIAL	JLB	JUNCTION BOX	TC	TOP OF CURB
COMM, PCC	CONCRETE	L	LENGTH	TP	TOP OF PIPE
COND	CONDUCTOR	LF	LENGTH OF CURB	TS	TRAFFIC SIGNAL
CONST	CONSTRUCTION OR CONSTRUCT	LT	LEFT	TRANS	TRANSITION
COR	CORNER	LVWD	LAS VEGAS VALLEY WATER DISTRICT	TYP	TYPICAL
CMP	CORRUGATED METAL PIPE	M.E.	MATCH EXISTING	TEL, TELE	TELEPHONE
CSAP	CORRUGATED STEEL ARCH PIPE	MH	MANHOLE	UG	UNDERGROUND
CSP	CORRUGATED STEEL PIPE	MAX	MAXIMUM	U.O.N.	UNLESS OTHERWISE NOTED
C&G	CURB AND GUTTER	MIN	MINIMUM	USD	UNIFORM STANDARD DRAWING
CIP	CAST IRON PIPE	MON	MONOLITHIC	USS	UNIFORM STANDARD SPECIFICATION
COL	COLUMN	N/A	NOT APPLICABLE	VAR	VARIES OR VARIABLE
CU YD, CY	CUBIC YARD	N/O	NORTH OF	VC	VERTICAL CURVE
CU FT, CF	CUBIC FOOT	N.T.S.	NOT TO SCALE	VG	VALLEY GUTTER
CULV	CULVERT	NVPC	NEVADA POWER COMPANY	VCP	VITRIFIED CLAY PIPE
DEPT	DEPARTMENT	OC	ON CENTER	W	WATER
DIA	DIAMETER	OG	OPEN GRADED PAVEMENT, ORIGINAL GROUND	WC	WHEEL CHAIR
DI	DROP INLET	PE	POLYETHYLENE	WM	WATER METER
DCSWCS	DESIGN AND CONSTRUCTION STANDARDS FOR WASTEWATER COLLECTION SYSTEMS	PVMT	PAVEMENT	W/O	WEST OF
ESMT	EASEMENT	PI	POINT OF INTERSECTION	WV	WATER VALVE
E/O	EAST OF	PT	POINT OF TANGENCY	W/	WITH
D/W, DW	DRIVEWAY	PC	POINT OF CURVE	W/Y	WATER YARD
DWG	DRAWING	PCC	POINT OF COMPOUND CURVE	Δ	INCLUDED ANGLE
EA	EACH	PRC	POINT OF REVERSE CURVE		
EG	EXISTING GROUND	PP	POWER POLE		
ELEC, E	ELECTRIC	PCC, CONC	PORTLAND CEMENT CONCRETE		
EOP, EP	EDGE OF PAVEMENT	PB	PULL BOX		
EO	EDGE OF OIL	PL	PROPERTY LINE		
EM	ELECTRIC METER	P	POWER		
ELEV	ELEVATION	PROP	PROPOSED		
EMBK	EMBANKMENT	R	RADIUS, RADIAL		
EOR	END OF CURB RETURN	PLS	PROFESSIONAL LAND SURVEYOR		
EBS	CATHODE PROTECTION BOND STATION	PVC	POLYVINYL CHLORIDE		
ETS	CATHODE PROTECTION TEST STATION	RT	RIGHT		
EVC	END OF VERTICAL CURVE	RR	RAILROAD		
EXIST, EX	EXISTING	RAD	RADIAL		
EXOH	EXISTING OVERHEAD UTILITY	REIN	REINFORCED		
		RET, WALL	RETAINING WALL		
		RC	REINFORCED CONCRETE		

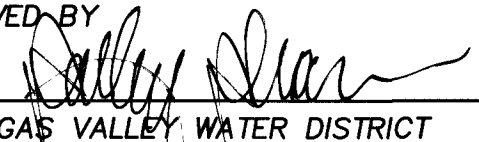
LEGEND

	SURVEY HORIZONTAL CONTROL LINE	EXISTING	NEW CONST.
---	RIGHT-OF-WAY	W/M	WATER METER
---	EXISTING SW, BC AND LIP	WV	WATER VALVE
---	EXISTING WALL	SL	STREET LIGHT
---	EXISTING WATER LINE	SH	SHRUB
---	EXISTING STORM DRAIN	SM	SMALL MANHOLE
---	EXISTING SANITARY SEWER	SS	SANITARY SEWER MANHOLE
---	EXISTING GAS LINE	S	STORM DRAIN MANHOLE
---	EXISTING UNDERGROUND CATV LINE(S)	PO	POWER POLE
---	EXISTING UNDERGROUND TELEPHONE LINE(S)	TS	TRAFFIC SIGN
---	EXISTING UNDERGROUND ELECTRIC LINE(S)	STL	STREETLIGHT PULL BOX
---	EXISTING TRAFFIC SIGNAL INTERCONNECT	DI	DROP INLET
---	EXISTING TRAFFIC SIGNAL CONDUIT	C.T.V.	CABLE T.V. PULL BOX
---	EXISTING STREETLIGHT CONDUIT	EV	ELECTRIC VAULT/PULL BOX
3	CONSTRUCTION KEY NOTE NUMBER	EM	ELECTRIC MANHOLE
(202.00.XX)	PAY ITEM	FM	FOUND MONUMENT AS NOTED
		GA	GAS VALVE
		GA	GUY ANCHOR (POLE)
		PT	PAVEMENT
		PT	PEDESTRIAN SIGNAL POLE
		SH	SHRUB
		SM	SMALL MANHOLE
		SS	SANITARY SEWER MANHOLE
		STL	STREETLIGHT PULL BOX
		TS	TRAFFIC SIGNAL POLE
		TS	TRAFFIC SIGNAL PULL BOX
		TR	TREE
		VA	VAULT

LAS VEGAS VALLEY WATER DISTRICT STANDARD NOTES

LVVWD PROJECT # 26588

- NO WORK SHALL BEGIN UNTIL THE WATER PLANS HAVE BEEN RELEASED FOR CONSTRUCTION BY THE LVVWD. FOLLOWING WATER PLAN APPROVAL, 48 HOURS NOTICE SHALL BE GIVEN TO THE LVVWD COMMUNICATION SUPPORT CENTER (258-7171) PRIOR TO THE START OF CONSTRUCTION. NOTICE MUST BE GIVEN BY 2:00 P.M. THE BUSINESS DAY PRIOR TO A LVVWD INSPECTION. WHEN REQUESTING INSPECTIONS, PLEASE REFER TO THE PROJECT # IDENTIFIED ABOVE.
- ALL WORK SHALL CONFORM TO LVVWD'S STANDARD PLATES, DRAWINGS, AND SPECIFICATIONS AND TO THE UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR WATER DISTRIBUTION SYSTEMS (UDACS), LATEST EDITION.
- ALL WORK, EXCEPT AS MODIFIED BY THESE PLANS OR BY NOTE NO. 2 SHALL BE DONE IN ACCORDANCE WITH THE MOST CURRENT DRAFT OR EDITION OF THE UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFFSITE IMPROVEMENT, CLARK COUNTY AREA.
- A SINGLE PIPE MATERIAL SHALL BE USED THROUGHOUT THE PROJECT UNLESS OTHERWISE APPROVED BY THE LVVWD.
- ALL SERVICE LATERALS TWO (2) INCHES IN DIAMETER AND SMALLER SHALL BE COPPER TUBING WITH LVVWD APPROVED SERVICE SADDLES.
- ALL WATER METER BOXES SHALL BE LOCATED OUTSIDE OF DRIVEWAY AREAS.
- ALL VALVES SHALL BE LOCATED OUTSIDE OF DRIVEWAYS, VALLEY AND CURB GUTTERS.
- THE FOLLOWING REQUIREMENTS MUST BE MET IN THE EVENT A WATER LINE AND SANITARY OR STORM SEWER LINE CROSS:
 - A MINIMUM EIGHTEEN (18) INCH VERTICAL SEPARATION (OUTSIDE TO OUTSIDE) MUST BE MAINTAINED WHEN THE WATER LINE IS INSTALLED OVER THE SANITARY OR STORM SEWER LINE. IF THE VERTICAL SEPARATION CANNOT BE MAINTAINED OR THE WATER LINE MUST BE PLACED UNDER THE SANITARY OR STORM SEWER LINE, THE SANITARY OR STORM SEWER LINE MUST BE CONSTRUCTED WITH ONE OF THE FOLLOWING OR, AS SHOWN ON THESE PLANS:
 - POTABLE WATER SUPPLY QUALITY MATERIAL.
 - ENCASEMENT WITH FOUR (4) INCH CONCRETE (MINIMUM)
 - SLEEVING WITH POTABLE WATER SUPPLY QUALITY PIPE.
 - EACH PROVISION MUST EXTEND ALONG THE SANITARY OR STORM SEWER, ON EITHER SIDE OF THE MAIN, A MINIMUM 10 FOOT DISTANCE PERPENDICULAR TO THE WATER MAIN EXTERIOR.
- WARNING TAPE SHALL BE REQUIRED OVER ALL MAINS, ALL SIX (6) INCH DIAMETER AND LARGER SERVICE LATERALS, AND ANY SERVICE LATERAL NOT INSTALLED PERPENDICULAR TO THE MAIN IN ACCORDANCE WITH STANDARD PLATE NO. 27.
- ALL WATER FACILITIES SHALL BE FILLED, DISINFECTED, PRESSURE TESTED, FLUSHED, FILLED AND AN ACCEPTABLE WATER SAMPLE OBTAINED, PRIOR TO CONNECTION TO THE LVVWD'S DISTRIBUTION SYSTEM.
- THE CONTRACTOR MUST OBTAIN ALL METERS TWO (2) INCHES AND SMALLER FROM LVVWD CENTRAL STORES. TELEPHONE 258-3152 FORTY-EIGHT (48) HOURS PRIOR TO PICKUP.
- CONSTRUCTION MAY INTERRUPT SERVICE, WITH LVVWD APPROVAL AND PROPER NOTIFICATION, BETWEEN THE HOURS OF 10 PM AND 6 AM, SUNDAY THROUGH THURSDAY. CIRCUMSTANCES MAY REQUIRE TEMPORARY SERVICE FEES BE INSTALLED, WITHOUT LVVWD REIMBURSEMENT. ANY TEMPORARY SERVICE FEES MUST HAVE PRIOR LVVWD APPROVAL.
- ALL WATER FACILITY CONSTRUCTION MATERIALS USED MUST BE AS LISTED ON THE LVVWD'S PRE-APPROVED MATERIALS AND MANUFACTURERS LISTING FOR NEW FACILITIES, LATEST REVISION, OR SPECIFICALLY APPROVED ON THESE PLANS.
- RECONNECT SERVICE LATERALS 2" AND SMALLER ALL SERVICE LATERALS 2" AND SMALLER THAT ARE OUT OR DAMAGED MAY BE RECONNECTED, PROVIDED THE FOLLOWING CRITERIA ARE MET:
 - IF THE LATERAL IS COPPER, THE LATERAL MAY BE CUT AND SPLICED NOT MORE THAN ONCE IN A MANNER APPROVED BY THE DISTRICT.
 - IF THE LATERAL IS NOT COPPER, THE LATERAL MUST BE ABANDONED FROM THE EXISTING WATER MAIN, AND REPLACED WITH A COPPER SERVICE LATERAL PER UDACS STANDARD PLATE NO. 19 OR 10. 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 LVVWD. IF THE CORPORATION STOP IS NOT WATER TIGHT, THE CONTRACTOR SHALL NOTIFY LVVWD COMMUNICATION SUPPORT CENTER (702-258-7171) FOR FURTHER DIRECTION.

APPROVED BY  4/21/03
LAS VEGAS VALLEY WATER DISTRICT DATE

BASIS OF BEARINGS

Centerline of Desert Inn Road, being the South line of Southeast quarter of Section 8, Township 21 South, Range 60 East, M.D.M. Clark County Nevada, Bears N89°22'10"W, as shown on plat of the final map of "LAKESHORE ESTATES NO.2 BY LEWIS HOMES", recorded in Book 35, Page 30 of Clark County, Nevada, Recorder's Office.

BENCHMARK

CLV BM 1LV10854: Rivet & Plate in top of curb, N.W. return of Desert Inn Road and Crystal Water Way, Elev. 2679.87' (NAVD88)

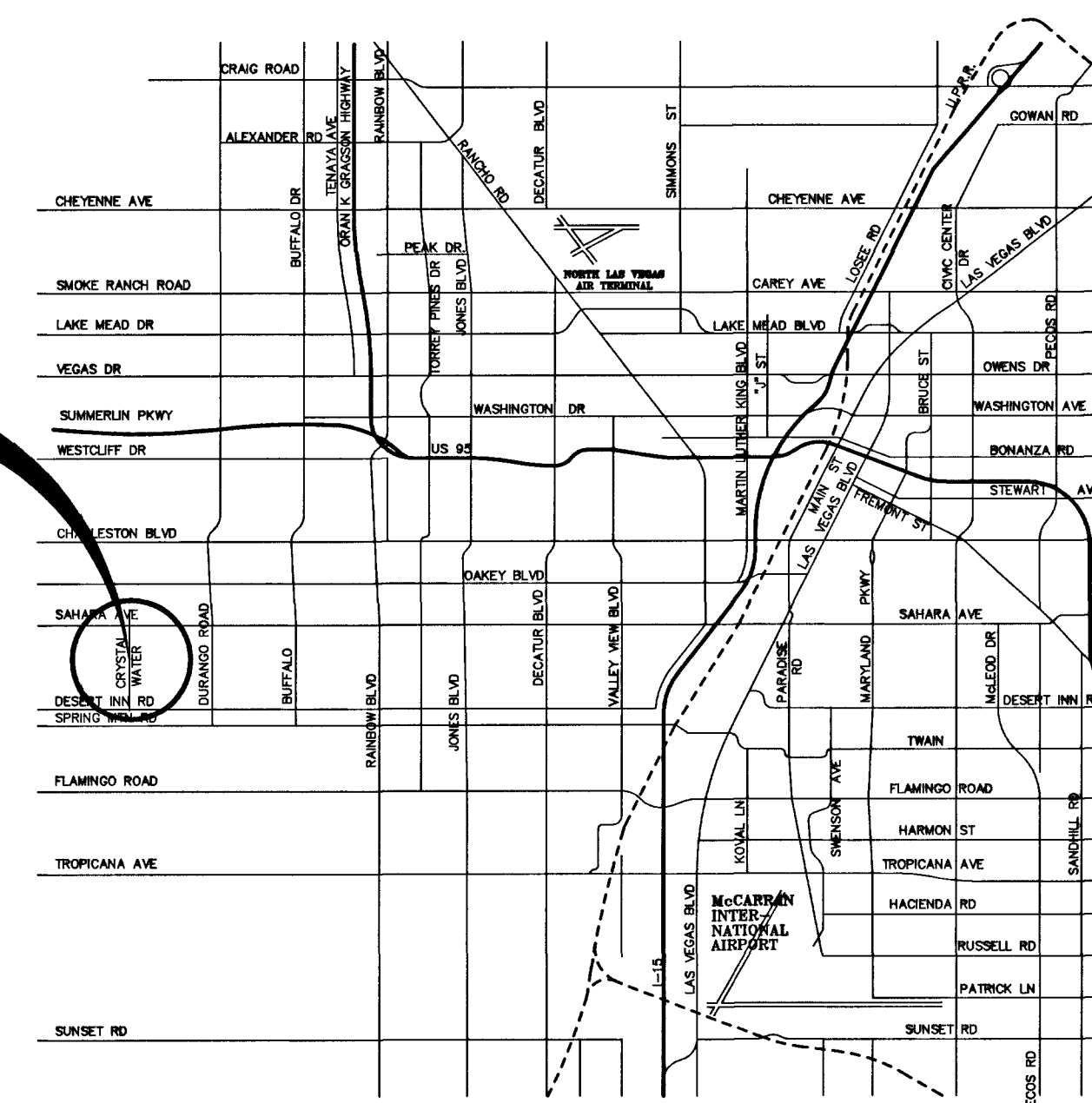
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GENERAL NOTES

UTILITY NOTE:
UTILITY LOCATIONS SHOWN HEREON ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT VERTICAL AND HORIZONTAL LOCATION OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO COMMENCING CONSTRUCTION. NO REPRESENTATION IS MADE THAT ALL EXISTING UTILITIES ARE SHOWN HEREON. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR UTILITIES NOT SHOWN OR UTILITIES NOT SHOWN IN THEIR PROPER LOCATION.

PROJECT VICINITY



VICINITY MAP

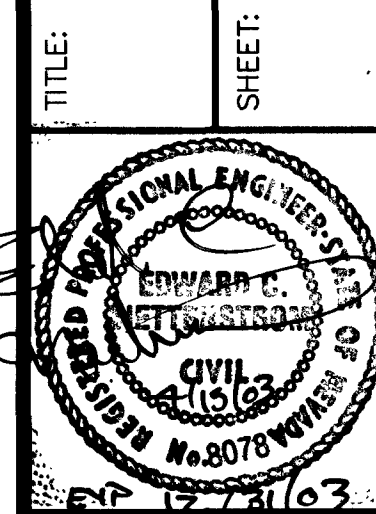
DEPARTMENT OF PUBLIC WORKS

ENGINEERING DESIGN SECTION



CRYSTAL WATER WAY
NOMINAL STORM DRAIN

NOTES



Sheet

N

2 of 10
DRAWING NO.
327-V119