

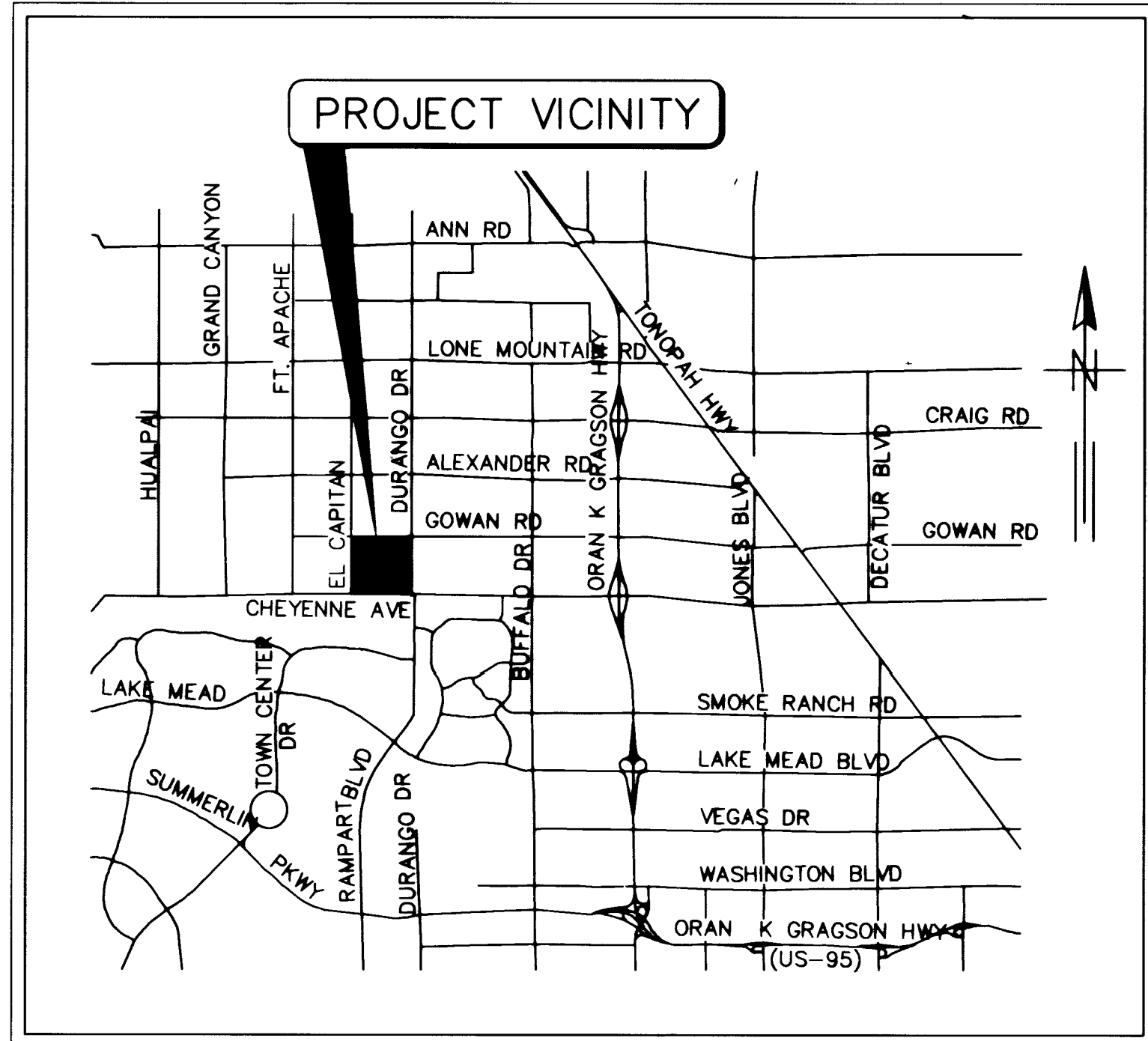
GENERAL NOTES

- ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE "UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA NEVADA", LATEST ISSUE; THE "UNIFORM STANDARD DRAWINGS FOR PUBLIC WORKS CONSTRUCTION, CLARK COUNTY AREA NEVADA", LATEST ISSUE; AND OTHER APPLICABLE APPROVED STANDARDS ISSUED BY THE CONTROLLING AGENCY; THE UNIFORM BUILDING CODE; AND ALL LOCAL CITY CODES AND ORDINANCES APPLICABLE, EXCEPT AS NOTED ON THIS SHEET AS "DEVIATIONS FROM STANDARDS".
- THE EXISTENCE AND LOCATION OF ANY OVERHEAD OR UNDERGROUND UTILITY LINES, PIPES, OR STRUCTURES SHOWN ON THESE PLANS ARE OBTAINED BY RESEARCH OF THE AVAILABLE RECORDS. EXISTING UTILITIES ARE LOCATED ON PLANS ONLY FOR THE CONVENIENCE OF THE CONTRACTOR. EXISTING UTILITY SERVICE LATERALS MAY NOT BE SHOWN ON THE PLANS. THE CONTRACTOR SHALL, AT HIS OWN EXPENSE, LOCATE ALL UNDERGROUND AND OVERHEAD INTERFERENCES WHICH MAY AFFECT HIS OPERATION DURING CONSTRUCTION AND SHALL TAKE ALL NECESSARY PRECAUTIONS TO AVOID DAMAGE TO THE SAME. THE CONTRACTOR SHALL USE EXTREME CAUTION WHEN WORKING NEAR OVERHEAD OR UNDERGROUND POWER, GAS AND/OR OTHER UTILITIES SO AS TO SAFELY PROTECT ALL PERSONNEL AND EQUIPMENT, AND SHALL BE RESPONSIBLE FOR ALL COSTS AND LIABILITY IN CONNECTION THEREWITH.
- THE CONTRACTOR SHALL TAKE ALL PRECAUTIONARY MEASURES NECESSARY TO PROTECT EXISTING UTILITY LINES, STRUCTURES, AND STREET IMPROVEMENTS WHICH ARE TO REMAIN IN PLACE. FROM DAMAGE, AND ALL SUCH IMPROVEMENTS OR STRUCTURES DAMAGED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED OR REPLACED SATISFACTORY TO THE CITY ENGINEER OR OWNING UTILITY COMPANY AT THE EXPENSE OF THE CONTRACTOR.
- ALL CONSTRUCTION SHALL BE AS SHOWN ON THESE PLANS, ANY REVISIONS SHALL HAVE THE PRIOR WRITTEN APPROVAL OF THE CITY ENGINEER.
- TYPE V CEMENT SHALL BE USED IN ALL OFF-SITE CONCRETE WORK. CONCRETE TO BE 3000 P.S.I. MINIMUM 28 DAYS. MIX DESIGN TO BE APPROVED BY THE QUALITY CONTROL DIVISION PRIOR TO USE ON THE PROJECT.
- PERMITS ARE REQUIRED FOR ANY WORK IN THE PUBLIC RIGHT OF WAY. THE CONTRACTOR SHALL SECURE ALL PERMITS AND INSPECTIONS REQUIRED FOR THIS CONSTRUCTION.
- EXPANSION JOINTS REQUIRED, MAXIMUM EVERY 300' IN EXTRUDED TYPE CURB.
- AC PAVEMENT TO BE 4" ABOVE LIP OF ALL GUTTERS AFTER COMPACTION, EXCEPT AT SIDEWALK RAMPS.
- APPLY FOG SEAL ONLY AFTER ALL CORRECTIONS AND ADJUSTMENTS HAVE BEEN MADE.
- CURB AND GUTTER WITH A GRADE OF LESS THAN FOUR TENTHS OF ONE PERCENT SHALL BE WATER TESTED AS SOON AS POSSIBLE AFTER CONSTRUCTION. ANY CURB AND GUTTER FOUND TO BE UNACCEPTABLE TO THE CITY SHALL BE REMOVED AND REPLACED.
- SIDEWALK RAMPS SHALL BE CONSTRUCTED IN EACH QUADRANT OF AN INTERSECTION PER STANDARD DRAWING 235. EXACT LOCATION OF RAMPS MAY BE ADJUSTED IN THE FIELD BY A CITY INSPECTOR.
- CONTRACTOR SHALL PROVIDE ALL NECESSARY HORIZONTAL AND VERTICAL TRANSITIONS BETWEEN NEW CONSTRUCTION AND EXISTING SURFACES TO PROVIDE FOR PROPER DRAINAGE AND FOR INGRESS AND EGRESS TO NEW CONSTRUCTION. THE EXTENT OF TRANSITIONS TO BE AS SHOWN ON PLANS, OR AS DESIGNATED IN THE FIELD BY A CITY INSPECTOR.
- ALL GRADING WORK SHALL CONFORM TO THE SOILS REPORT AS PREPARED BY THE SOILS ENGINEER AND APPROVED BY THE CITY ENGINEER, AND AS SHOWN ON THESE PLANS.
- EXACT LOCATION OF ALL SAWCUT LINES MAY BE DETERMINED IN THE FIELD BY A CITY OF LAS VEGAS INSPECTOR IF LOCATION ON PLANS IS NOT CLEARLY SHOWN, OR EXISTING PAVEMENT CONDITION REQUIRES RELOCATION.
- THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PROTECT EXISTING PERMANENT SURVEY MONUMENTS. ANY MONUMENTS DISTURBED SHALL BE REPLACED AND ADJUSTED PER AVAILABLE RECORDS IN ACCORDANCE WITH N.R.S. STATUTE NO. 625.550.
- UTILITY COMPANY METER BOXES, MANHOLE LIDS, VALVE COVERS, ETC. SHALL BE LOCATED OUT OF DRIVEWAYS, DRIVEWAY APRONS, FLOWLINES, AND CROSS GUTTERS UNLESS WRITTEN APPROVAL IS GRANTED BY THE UTILITY COMPANY AND THE CITY ENGINEER.
- WALL NOTES:
 - ALL WALLS, NEW OR EXISTING, ARE ONLY SHOWN FOR THE PURPOSE OF GRADING RELATIONSHIPS.
 - THE STRUCTURAL AND ARCHITECTURAL DESIGN OF ALL WALLS (RETAINING OR NON-RETAINING) MUST BE APPROVED BY THE CLV BUILDING DEPARTMENT.
- ASPHALT MIX DESIGN MUST BE SUBMITTED AND APPROVED BY THE CITY ENGINEER PRIOR TO THE PLACEMENT OF ASPHALT ON CITY STREETS.

ABBREVIATIONS

ABAN	ABANDON	GM	GAS METER
AIP	ABANDONED IN PLACE	S-G	STEEL GAS
AGG	AGGREGATE	GB	GRADE BREAK
AGG	AGGREGATE	GUT	GUTTER
ALT	ALTERNATE	HDWL	HEADWALL
A	ANODE, GAS	H/P	HIGH POINT
ACP	ASBESTOS CEMENT PIPE	IE	INVERT ELEVATION
AC	ASPHALTIC CONCRETE	IN	INCH
AVE	AVENUE	INT	INTERSECTION
BC	BACK OF CURB	INV	INVERT
BCR	BACK OF CURB RADIUS	ISL	ISLAND
BLVD	BOULEVARD	L	LENGTH OF CURVE
BVC	BEGINNING OF VERTICAL CURVE	LT	LEFT
		LVVWD	LAS VEGAS VALLEY WATER DISTRICT
BM	BENCH MARK		
BDRY LINE	BOUNDARY LINE	MH	MANHOLE
CATV	CABLE TELEVISION	MAX	MAXIMUM
C-C	CENTER TO CENTER	MIN	MINIMUM
C	CENTERLINE	NG	NATURAL GROUND
CLV	CITY OF LAS VEGAS	N/O	NORTH OF
CNVL	CITY OF NORTH LAS VEGAS	NTS	NOT TO SCALE
CC	CLARK COUNTY	OC	ON CENTER
CCSD	CLARK COUNTY SANITATION DISTRICT	OG	OPEN-GRADED PAVEMENT
CO	CLEANOUT, SEWER	PVMT	PAVEMENT
COMM	COMMERCIAL	PI	POINT OF INTERSECTION
CONC.	CONCRETE	PRC	POINT OF REVERSE CURVE
CONC. PCC	CONCRETE	PC	POINT OF CURVE
CONST	CONSTRUCTION OR CONSTRUCT	PT	POINT OF TANGENCY
		PCC	POINT OF COMPOUND CURVE
COR	CORNER	PCC, CONC	PORTLAND CEMENT CONCRETE
C&G	CURB & GUTTER		
CIP	CAST IRON PIPE	PKWY	PARKWAY
COL	COLUMN	PP	POWER POLE
CULV	CULVERT	P	POWER
CF	CURB FACE	PL	PROPERTY LINE
DEPT	DEPARTMENT	PROP	PROPOSED
DCSWCS	DESIGN AND CONSTRUCTION STANDARDS FOR WASTE WATER COLLECTION SYSTEMS	PB	PULL BOX
		RP	RADIUS POINT
		R	RADIUS
DIA	DIAMETER	REINF	REINFORCED
DWG	DRAWING	RC	REINFORCED CONCRETE
DWY	DRIVEWAY	RCB	REINFORCED CONCRETE BOX
DI	DROP INLET	RCP	REINFORCED CONCRETE PIPE
ESMT	EASEMENT	RT	RIGHT
E/O	EAST OF	R/W	RIGHT-OF-WAY
EP	EDGE OF PAVEMENT	RD	ROAD
E	ELECTRIC	RTN	RETURN
EM	ELECTRIC METER	SS	SANITARY SEWER
ELEV	ELEVATION	SHT	SHEET
EMBK	EMBANKMENT	S/O	SOUTH OF
ECR	END OF CURB RETURN	SW	SIDEWALK
EC	END OF CURVE	SQ FT, SF	SQUARE FOOT
EVC	END OF VERTICAL CURVE	SQ YD, SY	SQUARE YARD
EX BLDG	EXISTING BUILDING CORNER	ST	STREET
EX FNC	EXISTING FENCE	STA	STATION
EX FNC-COR	EXISTING FENCE CORNER	SD	STORM DRAIN
EX LS	EXISTING LANDSCAPE	STD	STANDARD
EX TC-AP	TOP OF CURB - ANGLE POINT	STRUCT	STRUCTURAL OR STRUCTURE
		SL	STREET LIGHT
EXIST	EXISTING	T	TELEPHONE
FT	FEET OR FOOT	TEMP	TEMPORARY
FG	FINISH GRADE	TC	TOP OF CURB
FA	FIRE ALARM	TOE	BOTTOM OF SLOPE
FF	FINISH FLOOR	TG	TOP OF GRATE
FH	FIRE HYDRANT	TOS	TOP OF SLAB
FL	FLOWLINE	TP	TOP OF PIPE
GALV	GALVANIZED	TS	TRAFFIC SIGNAL

VICINITY MAP



TSI	TRAFFIC SIGNAL INTERCONNECT
TRANS	TRANSITION
TYP	TYPICAL
UG	UNDERGROUND
VERT	VERTICAL
VC	VERTICAL CURVE
VG	VALLEY GUTTER
VCP	VITRIFIED CLAY PIPE
W	WATER
WM	WATER METER
W/O	WEST OF
YD	YARD
USD	UNIFORM STD DWG FOR PUBLIC WORKS CONSTRUCTION CLARK COUNTY AREA

OFF-SITE WATER NOTES

LVVWD STANDARD NOTES

- 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 CUSTOMER SERVICE DEPARTMENT (258-7171) PRIOR TO THE START OF CONSTRUCTION. NOTICE MUST BE GIVEN TO 2:00 PM, THE BUSINESS DAY PRIOR TO A LVVWD INSPECTION.
 - ALL WORK SHALL CONFORM TO LVVWD STANDARD PLATES, DRAWINGS, AND SPECIFICATIONS, LATEST EDITION AND THE UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR WATER DISTRIBUTION SYSTEMS. (UDACS)
 - ALL WORK, EXCEPT AS MODIFIED BY THESE PLANS OR BY NOTE 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.
 - 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 A 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:
 - 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 TEN (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 PICK UP.
 - CONSTRUCTION MAY INTERRUPT SERVICE, WITH LVVWD APPROVED AND PROPER NOTIFICATION, BETWEEN THE HOURS OF 10 PM AND 6 AM, SUNDAY THROUGH THURSDAY. CIRCUMSTANCES MAY REQUIRE TEMPORARY SERVICE FEED BE INSTALLED WITHOUT LVVWD REIMBURSEMENT. ANY TEMPORARY SERVICE FEED 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.
 - WATER METERS FOR THE CITY OF LAS VEGAS NORTHWEST FAMILY RECREATION CENTER TO BE INSTALLED PRIOR TO PAVEMENT CONSTRUCTION FOR DURANGO DRIVE FROM CHEYENNE AVENUE TO GOWAN ROAD.
- A MINIMUM EIGHTEEN (18) INCH VERTICAL SEPARATION (OUTSIDE TO OUTSIDE) MUST BE MAINTAINED OR 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:

RECORD DRAWINGS NOT FOR CONSTRUCTION

- TO ALTER THESE DOCUMENTS FOR ANOTHER PROJECT BY ANYONE OTHER THAN THE ORIGINAL ARCHITECT IS A VIOLATION OF NRS 623.
- THIS RECORD DRAWING HAS BEEN PREPARED IN PART, BASED UPON INFORMATION FURNISHED BY THE GENERAL CONTRACTOR. WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE, THE DESIGN PROFESSIONAL CANNOT ASSURE ITS ACCURACY, AND THIS IS NOT RESPONSIBLE FOR THE ACCURACY OF THIS RECORD DRAWING OR FOR ANY ERRORS OR OMISSIONS WHICH MAY HAVE BEEN INCORPORATED INTO IT AS A RESULT. THE DESIGN PROFESSIONAL CANNOT AND DOES NOT WARRANT THEIR ACCURACY.
- INFORMATION THAT MAY BE INCLUDED WOULD BE SIGNIFICANT CHANGES TO ROOM ARRANGEMENTS ON THE FLOOR PLANS AND ASSOCIATED DRAWINGS; MINOR DIMENSION OR CONSTRUCTION DETAIL CHANGES MAY NOT BE INCLUDED.

CONTRACTOR _____ DATE _____

APPROVED FOR CONSTRUCTION ESN.018

LAS VEGAS VALLEY WATER DISTRICT DATE _____

5:64:0001-WRC - CIVIL/PLN - I:1:1:1-DWG 5-8-01 9:05:19 am EST
 FILE: 04800001.DWG SCALE: 1:1 02/20/1997 AT 09:34 - CADD:000 413-244

POGGEMEYER DESIGN GROUP

2601 NORTH TENAYA WAY
LAS VEGAS, NEVADA 89128 (702) 255-8100

GREELEY AND HANSEN ENGINEERS 4625 SOUTH POLARIS AVENUE, SUITE 210 LAS VEGAS, NEVADA 89103 (702) 736-7062 32276	DESIGNED SW DRAWN FT CHECKED MBH
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APPROVED									
NO.	DATE	APPD	REVISION						

CITY OF LAS VEGAS, NEVADA
DEPARTMENT OF PUBLIC WORKS
NORTHWEST WATER RESOURCE CENTER
100% DESIGN

GENERAL NOTES	PROJ. NO. 7190
	DWG PDG 2
	SHEET 2 OF 13
	DATE 06.16.98 REV 0