

GENERAL NOTES

GENERAL REQUIREMENTS

- 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, ANY 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 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 A 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 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 IMPROVEMENTS WHICH ARE TO REMAIN IN PLACE, FROM DAMAGE, AND ALL SUCH IMPROVEMENTS OR STRUCTURES DAMAGED BY THE CONTRACTOR'S OPERATION 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 DESIGNED FOR A 5.5 SACK MIX WITH A MAXIMUM WATER/CEMENT RATIO OF 0.45 (OR AS DESIGNATED BY THE SOILS ENGINEER). MIX DESIGN TO BE APPROVED BY THE QUALITY CONTROL DIVISION PRIOR TO USE ON THE PROJECT.
- PERMITS ARE REQUIRED FOR ANY WORK IN THE 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 1/2" ABOVE LIP OF ALL GUTTER & VALLEY GUTTER AFTER COMPACTION.
- APPLY FOG SEAL ONLY AFTER ALL CORRECTIONS AND ADJUSTMENTS HAVE BEEN MADE.
- CURB & 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 RAMP 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 SAID CONSTRUCTION. EXTENT OF TRANSITIONS TO BE AS SHOWN ON PLANS, OR AS DESIGNED 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 OF PLANS IS NOT CLEARLY SHOWN, OR EXISTING PAVEMENT CONDITION REQUIRES LOCATION.
- 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.
- THE CONTRACTOR SHALL EXAMINE THE DRAWINGS BEFORE PROCEEDING WITH WORK. HE SHALL INFORM THE ENGINEER OF ANY OMISSIONS OR CONFLICTS DISCOVERED BEFORE PROCEEDING WITH ANY AFFECTED WORK.
- PRECAUTIONS SHALL BE TAKEN TO PROTECT THE DESERT TORTOISE AND OTHER PROTECTED WILDLIFE AS PRESCRIBED IN THE SPECIFICATIONS AND AS REQUIRED BY THE U.S. FISH AND WILDLIFE SERVICE.
- CONTRACTOR TO NOTIFY PROPERTY OWNERS 24 HOURS PRIOR TO INTERRUPTION OF WATER SERVICE. INTERRUPTION OF SERVICE SHALL ONLY OCCUR WITH THE APPROVAL OF LAS VEGAS VALLEY WATER DISTRICT.
- THE CONTRACTOR SHALL NOT BACKFILL ANY TRENCHES IN WHICH WATER LINES HAVE BEEN UNCOVERED UNTIL THE WATER LINES HAVE BEEN INSPECTED BY THE CITY OF LAS VEGAS INSPECTORS. THE CITY OF LAS VEGAS, UTILITY DIVISION SHALL BE NOTIFIED 48 HOURS IN ADVANCE OF CONSTRUCTION IN THE VICINITY OF WATER LINES.
- THE CONTRACTOR SHALL, AT HIS EXPENSE, LOCATE ALL OVERHEAD INTERFERENCES WHICH MAY AFFECT HIS OPERATION DURING CONSTRUCTION AND SHALL TAKE ALL NECESSARY PRECAUTIONS TO AVOID DAMAGE TO SAME. THE CONTRACTOR SHALL USE EXTREME CAUTION WHEN WORKING NEAR OVERHEAD OR UNDERGROUND POWER AND/OR TELEPHONE FACILITIES SO AS TO SAFELY PROTECT ALL PERSONNEL AND EQUIPMENT, AND SHALL BE RESPONSIBLE FOR ALL COSTS AND LIABILITY IN CONNECTION THEREWITH.
- ALL UTILITY COMPANIES SHALL BE NOTIFIED BY THE CONTRACTOR AT LEAST 48 (FORTY-EIGHT) HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- ALL UTILITIES LOCATED UNDER EXISTING OR PROPOSED STORM DRAINS, CHANNELS, ETC. WILL BE CONCRETE ENCASED.

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF EXISTING UTILITIES AND EXISTING STRUCTURES DURING CONSTRUCTION.
- THE CONTRACTOR WILL BE RESPONSIBLE FOR OBTAINING CONSTRUCTION AND TEMPORARY EASEMENTS OUTSIDE OF THE EXISTING RIGHT-OF-WAY FOR THE CONSTRUCTION OF THIS JOB.
- ALL BARRICADING AND TEMPORARY TRAFFIC CONTROL DEVICES OR METHODS USED DURING CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE "UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS" CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA, 1986", AND "STATE OF NEVADA TRAFFIC CONTROL MANUAL", DATED 1980 AND "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", 1988 EDITION.
- THE NEVADA POWER COMPANY SHALL BE RESPONSIBLE FOR THE RELOCATION OF UNDERGROUND POWER LINES THAT INTERFERE WITH THE REQUIRED IMPROVEMENTS AS SHOWN ON THE CONTRACT DRAWINGS.

WATER NOTES

- NO WORK SHALL BEGIN ON WATER PLANS UNTIL THEY HAVE BEEN RELEASED FOR CONSTRUCTION BY THE CITY OF LAS VEGAS.
- CALL BEFORE YOU DIG 1-800-227-2600.
- ALL WORK SHALL CONFORM TO LVVWD LATEST STANDARD PLATES, DRAWINGS, AND SPECIFICATIONS.
- ALL WORK, EXCEPT AS MODIFIED HEREON OR BY NOTE 3, SHALL BE DONE IN ACCORDANCE WITH THE MOST CURRENT DRAFT OR ADDITION OF THE UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFFSITE IMPROVEMENTS, CLARK COUNTY AREA.
- DISTRICT APPROVED SERVICE SADDLES OR TAPPED COLLARS SHALL BE REQUIRED ON ALL 3/4" AND 1" SERVICE LATERALS. SERVICE SADDLES ONLY SHALL BE PERMITTED ON 1-1/2" AND 2" SERVICE LATERALS. DOUBLE TAPPED COLLARS ARE NOTE PERMITTED.
- COPPER SERVICE LATERALS: ALL 3/4" TO 2" SERVICE LATERALS SHALL BE OF COPPER TUBING IN ACCORDANCE WITH THE DISTRICT'S SPECIFICATION TITLED "3502 - COPPER WATER TUBING".
- THE MAXIMUM ALLOWABLE JOINT DEFLECTION FOR ACP AND DUCTILE IRON PIPE SHALL BE AS FOLLOWS:

PIPE SIZES	ACP	DUCTILE IRON SLIP JOINT	DUCTILE IRON MECHANICAL JOINT
6 INCH	2.5 DEGREES	2.5 DEGREES	3.5 DEGREES
8 - 12 INCH	2.5 DEGREES	2.5 DEGREES	2.5 DEGREES
14 - 16 INCH	2 DEGREES	1.5 DEGREES	1.5 DEGREES
18 - 24 INCH	N/A	1.5 DEGREES	1.5 DEGREES

ON PVC PIPE, THE MAXIMUM OFFSET FOR A 20' LENGTH OF FACTORY BELLED PIPE SHALL BE 16 INCHES FOR 6" PIPE, 12 INCHES FOR 8" PIPE, AND 9 INCHES FOR 10" AND 12" PIPE.

IF THESE OFFSETS CONFLICT WITH THE PIPE MANUFACTURERS RECOMMENDATION, THE MORE STRINGENT REQUIREMENT SHALL APPLY.

- ALL METER BOXES SHALL BE LOCATED OUTSIDE OF DRIVEWAY AREAS.
- ALL VALVES SHALL BE LOCATED OUTSIDE OF DRIVEWAYS AND VALLEY GUTTERS.
- DETECTOR TAPE SHALL BE REQUIRED IN ACCORDANCE WITH STANDARD PLATE NO. 27 WHERE INDICATED, AND AS FOLLOWS:
 - OVER ALL MAINS NOT INSTALLED 6 FEET FROM BACK OF CURB.
 - OVER ALL SERVICE LATERALS NOT INSTALLED AT RIGHT ANGLES TO MAIN.
- ALL WATER MAINS SHALL BE PRESSURE TESTED AT 200 P.S.I. FOR A CONTINUOUS TWO HOUR PERIOD, IN ACCORDANCE WITH DISTRICT STANDARDS.
- ALL WATER MAINS SHALL BE DISINFECTED, FLUSHED, AND AN ACCEPTABLE HEALTH SAMPLE OBTAINED, PRIOR TO THE CONNECTION OF THE WATER MAIN(S) AND/OR LATERAL(S) TO THE DISTRICTS' SYSTEM.
- ALL SERVICE LATERALS 2" AND SMALLER MAY BE EXTENDED PROVIDED THE FOLLOWING CRITERIA IS MET:
 - LATERAL CAN ONLY BE EXTENDED IF CONNECTING TO COPPER.
 - LATERAL MUST BE INSTALLED AT 90 DEGREES TO MAIN.
 - USE ONLY DISTRICT APPROVED CONNECTIONS.

DEVIATIONS -NONE

LEGEND

	DETAIL/SECTION IDENTIFICATION LETTER OR NUMBER
	SHEET DETAIL IS SHOWN
	EXISTING MANHOLE
	EXISTING FIRE HYDRANT
	EXISTING POWER POLE
	EXISTING WATER LINE
	EXISTING GAS LINE
	EXISTING SANITARY SEWER LINE
	EXISTING STORM DRAIN LINE
	EXIST. UNDERGROUND ELECTRICAL
	EXISTING CONTOUR
	EXISTING CHAIN-LINK FENCE
	EXISTING ELEVATION
	EDGE OF EXISTING PAVEMENT
	NEW MANHOLE
	NEW FIRE HYDRANT
	PROPOSED WATER LINE
	PROPOSED SANITARY SEWER LINE
	PROPOSED STORM DRAIN LINE
	PROPOSED ELEVATION
	RIGHT OF WAY LINE
	CENTERLINE
	PROPERTY LINE

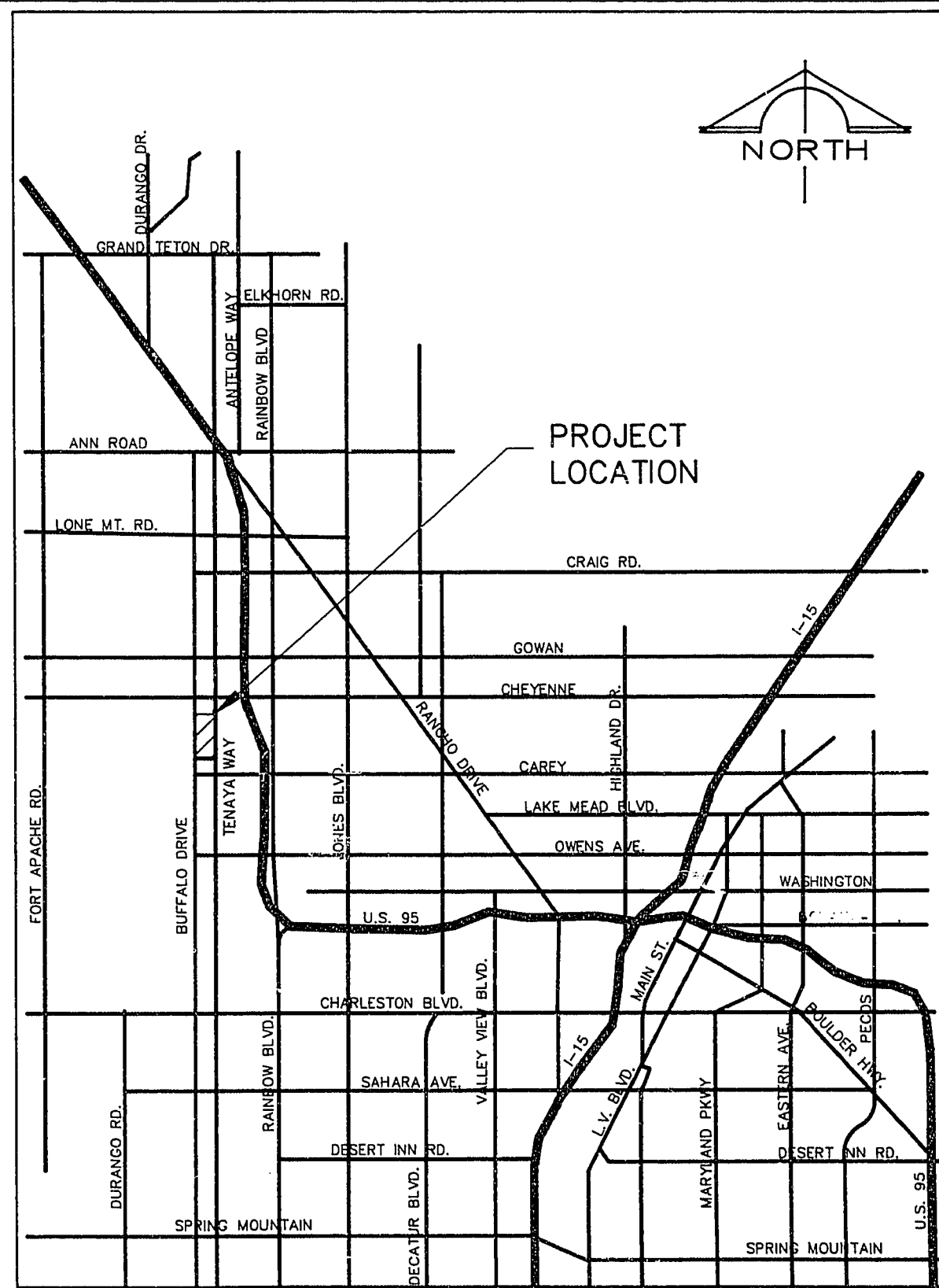
ABBREVIATIONS

ABAN ABANDONED IN PLACE	CCSD CLARK COUNTY SANITATION DISTRICT	COR CORNER	CSAP CORRUGATED STEEL ARCH PIPE	CSP CORRUGATED STEEL PIPE	C&G CURB & GUTTER	CIP CAST IRON PIPE	COL COLUMN	CU YD, CY CUBIC YARD	CU FT, CF CUBIC FOOT	CULV CULVERT	DEPT CURB FACE DEPARTMENT	DIA DIAMETER	DWY DRIVEWAY	DI DROP INLET	ESMT EASEMENT	E/O EAST OF	EP EDGE OF PAVEMENT	EO EDGE OF OIL	EM ELECTRIC	ELEV ELEVATION	EMBK EMBANKMENT	ECR END OF CURB RETURN	EC END OF CURVE	EBS CATHODE PROTECTION BOND STATION	ETS CATHODE PROTECTION TEST STATION	EVC END OF VERTICAL CURVE	EXIST EXISTING	FT FEET OR FOOT	FG FINISH GRADE	FA FIRE ALARM	PH FIRE HYDRANT	E FLOWLINE	GALV GALVANIZED	GM GAS METER	GR GAS PRESSURE REGULATOR	PL-G PLASTIC GAS	S-G STEEL GAS	GB GRADE BREAK	GUT GUTTER	HDWL HEADWALL	IN INCH	INT INTERSECTION	INV INVERT	ISL ISLAND	JB JUNCTION BOX	LOC LENGTH OF CURB	LVVWD LAS VEGAS VALLEY WATER DISTRICT	MH MANHOLE	MAX MAXIMUM	MIN MINIMUM	MON MONOLITHIC	N/O NORTH OF	OC ON CENTER	OG OPEN-GRADED PAVEMENT, ORIGINAL GROUND	PWT POINT OF INTERSECTION	PRC POINT OF REVERSE CURVE	PC POINT OF CURVE	PT POINT OF TANGENCY	PCC POINT OF COMPOUND CURVE	PCC, CONC PORTLAND CEMENT CONCRETE	PP POWER POLE	P POWER	PROP PROPOSED	PB PULL BOX	RP RADIUS POINT	R RIGHT	RR RAILROAD	REINF REINFORCED	RC REINFORCED CONCRETE	ROB REINFORCED CONCRETE BOX	RCP REINFORCED CONCRETE PIPE	RELOC RELOCATE	RT RIGHT	R/W RIGHT-OF-WAY	RD ROAD	SS SANITARY SEWER	SHT SHEET	S/O SOUTH OF	SW SIDEWALK	SQ FT, SF SQUARE FOOT	SQ YD, SY SQUARE YARD	STA STATION	SHD STEEL HIGH-PRESSURE PIPE	SD STORM DRAIN	STD STANDARD	STRUCT STRUCTURAL OR STRUCTURE	SURV SURVEY	SL STREETLIGHT	T TELEPHONE	TEMP TEMPORARY	TBA TO BE ADJUSTED	TBR TO BE REMOVED	TS TOP OF CURB	TP TOP OF PIPE	TS TRAFFIC SIGNAL	TSI TRAFFIC SIGNAL INTERCONNECT	TRANS TRANSITION	TPY TYPICAL	UG UNDERGROUND	VAR VARIABLE	VERT VERTICAL	VC VERTICAL CURVE	VG VALLEY GUTTER	VCP VITRIFIED CLAY PIPE	W WATER	WM WATER METER	W/O WEST OF	YD YARD
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SYMBOLS

	ANGLE
	CENTER LINE
	AT
	CHANNEL
	DIAMETER
	NOT TO SCALE
	NUMBER
	PROPERTY LINE

VICINITY MAP



AS-BUILT

GENERAL NOTES

WEST SERVICE CENTER
PHASE I
B & S, Q.C. & SANT. SITES

NUMBER	91012
DESIGNED BY	GP
DRAWN BY	EC
CHECKED BY	TP
DATE	8-7-92

PROJECT NUMBER	ST 2
DATE	8-7-92
U.S. 95	78

C-2

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