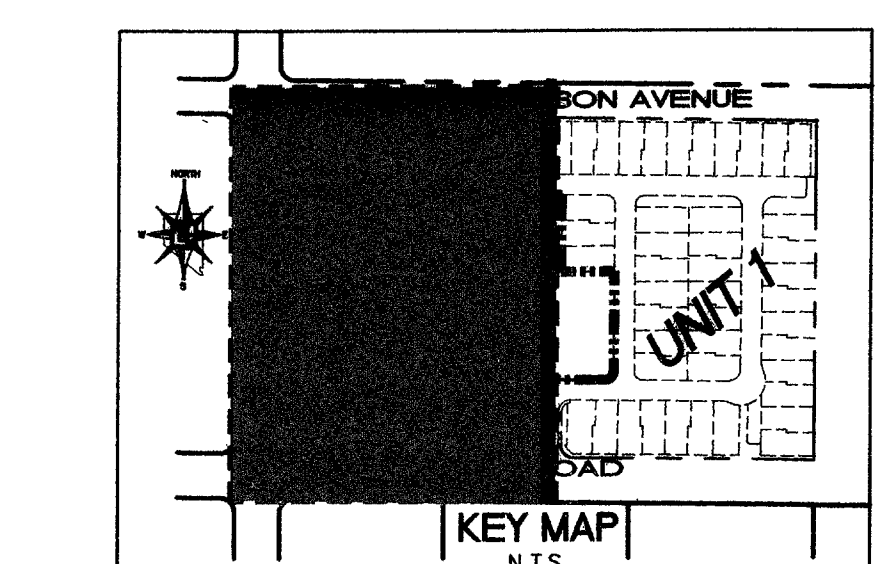
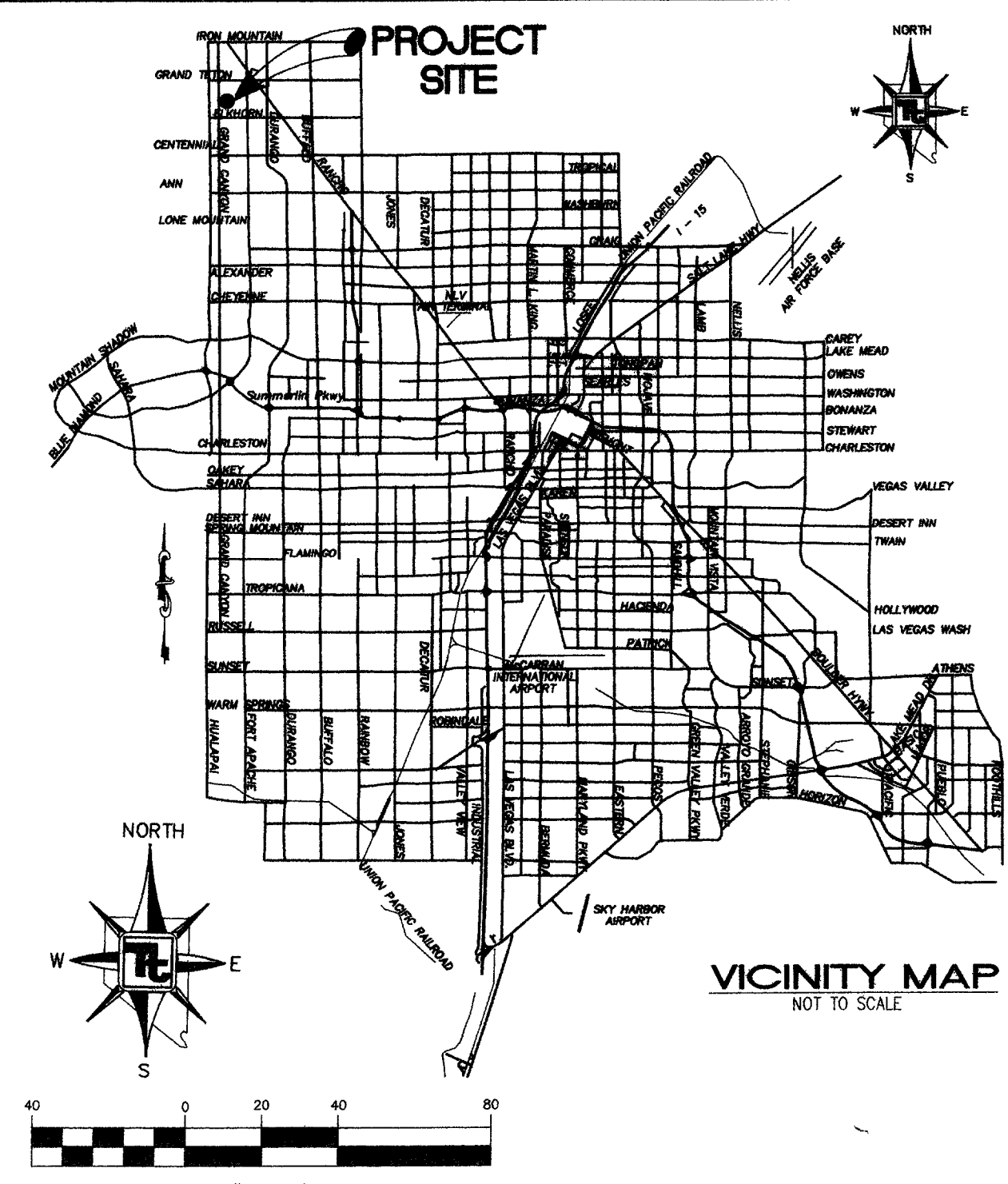




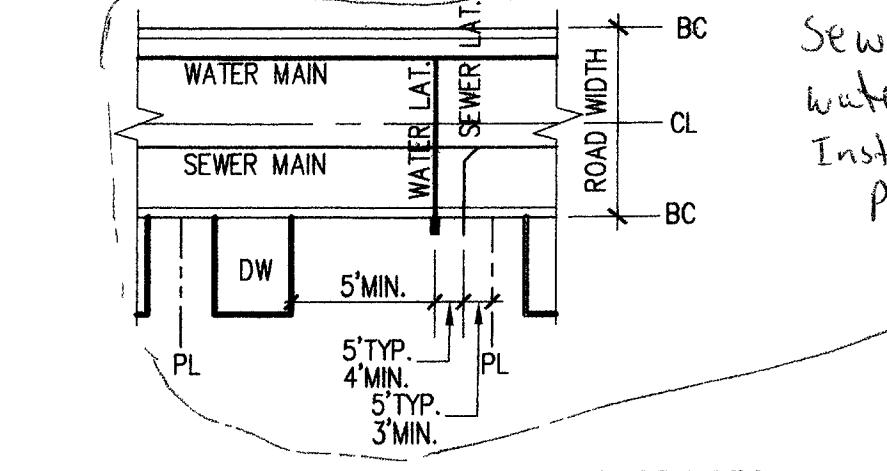
FIRE FLOW CALCULATIONS

FIRE FLOW REQUIREMENT IS: 1500 GALLONS PER MINUTE AT 20 PSI RESIDUAL PRESSURE.

BASED ON:

SQUARE FOOTAGE:	2033	SQ. FT.
LARGEST AREA BETWEEN 4-HOUR SEPARATION WALLS:	26.5±	FT.
BUILDING HEIGHT:	2	FT.
NUMBER OF STORIES:	2	FT.
TYPE OF CONSTRUCTION:	V-N	FT.
OCCUPANCY:	RESIDENTIAL	FT.
FULL AUTOMATIC FIRE SPRINKLER SYSTEM:	NO	FT.
ROOF CONSTRUCTION:	TILE	FT.

REVIEWED BY: *[Signature]*
DATE: 1/30/04



TYPICAL SERVICE LATERALS SPACING

NTS

ALL LOTS:

THIS PROPERTY MAY HAVE STATIC WATER PRESSURE IN EXCESS OF 80 PSI. THE UNIFORM PLUMBING CODE REQUIRES THAT INDIVIDUAL, ON-SITE (PRIVATE), PRESSURE REDUCING VALVES BE INSTALLED WHENEVER THE PRESSURE EXCEEDS 80 PSI. PRIVATE DEVELOPERS RESPONSIBILITY AND WILL NOT BE INSPECTED OR INCLUDED IN THE ACCEPTANCE OF LVWD FACILITIES.

ABANDONED VALVE CUT AND CAP

ALL VALVES TO BE ABANDONED SHALL BE ABANDONED IN THE CLOSED POSITION, UNLESS SHOWN OTHERWISE, BY REMOVING A MINIMUM OF THE TOP TWENTY-FOUR (24) INCHES OF THE VALVE BOX AND THEN FILLING THE BOTTOM OF THE BOX WITH A MINIMUM OF EIGHT (8) INCHES OF SAND OR TYPE II AGGREGATE BASE. THE REMAINING PORTION OF THE VALVE BOX SHALL BE FILLED WITH CONCRETE HAVING A COMPRESSIVE STRENGTH OF AT LEAST TWO THOUSAND (2000) PSI. THE LATERAL MUST BE CUT WITHIN THREE (3) FEET OF THE ABANDONED VALVE OR AS SHOWN ON THE PLANS AND CAPPED. THE CONTRACTOR SHALL CUT THE EXISTING PIPE WHERE SHOWN ON THE DRAWING AND INSTALL A CAP COMPLETE WITH THRUST BLOCK WHERE A JOINT OR COUPLING IN THE EXISTING PIPE IS UNCOVERED AT THE CUT AND CAP LOCATION. THE INSTALLATION OF A PLUG MAY BE PERMITTED WITH DISTRICT APPROVAL. A CONCRETE THRUST BLOCK SHALL BE INSTALLED AT ALL CAP OR PLUG LOCATIONS IN ACCORDANCE WITH THE PROVISIONS OF UDACS PLATE 5.

INSTALL WATERLINE IN STEEL CASING PER UDACS PLATE NO. 15 AND 16. MINIMUM 18-INCH CLEARANCE IS REQUIRED ABOVE THE TOP OF THE CASING FROM THE UPPER BENDS THROUGHOUT THE LOWERED SECTION OF PIPE. DUCTILE IRON PIPE WITH RESTRAINED JOINTS IS REQUIRED. IN ADDITION, THRUST BLOCKS ARE TO BE INSTALLED AT THE UPPER BENDS.

BENCHMARK
CITY OF LAS VEGAS BENCHMARK -2090-20W4
REBAR #124 FT. NORTHEAST OF DEER SPRINGS AND FORT APACHE
ELEVATION = 806.867 METERS (NAVDS88) ELEVATION = 2647.20 FEET (NAVDS88) 98583

BEARING OF BEARING
BEARING SOUTH 007°34'00" EAST; BEING THE WEST LINE OF THE SOUTHWEST QUARTER (SW 1/4) OF THE NORTHWEST QUARTER (NW 1/4) OF SECTION 20, TOWNSHIP 19 SOUTH, RANGE 80 EAST, CLARK COUNTY, NEVADA, AS SHOWN ON FILE 25, PAGE 44 SURVEYS.

REDUCED PRESSURE PRINCIPLE ASSEMBLY: (2)-1"
APPROVED REDUCED PRESSURE PRINCIPLE ASSEMBLY(S) (2) 1" SHALL BE INSTALLED PER THE UDACS PLATE NO. 114. NO WATER SHALL BE TAKEN FROM A SERVICE REQUIRING BACKFLOW PREVENTION UNTIL THE REDUCED PRESSURE PRINCIPLE ASSEMBLY HAS BEEN SUCCESSFULLY TESTED BY THE LVWD. 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.

DISCLAIMER NOTE:
UTILITY LOCATION SHOWN HEREON ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING UNDERGROUND AND OVERHEAD 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 LOCATIONS. NOTIFY ENGINEER IMMEDIATELY IF DISCREPANCIES ARE ENCOUNTERED.

SEWER CONTRIBUTION
AVERAGE DAILY FLOW -----0.0228 MGD
PEAK FLOW (PF=3.4) -----0.0774 MGD

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② 4" PVC SEWER LATERALS 41 EA
8" PVC SEWER MAIN 1330± LF
③ BACK WATER VALVE (PRIVATE) 8 EA

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