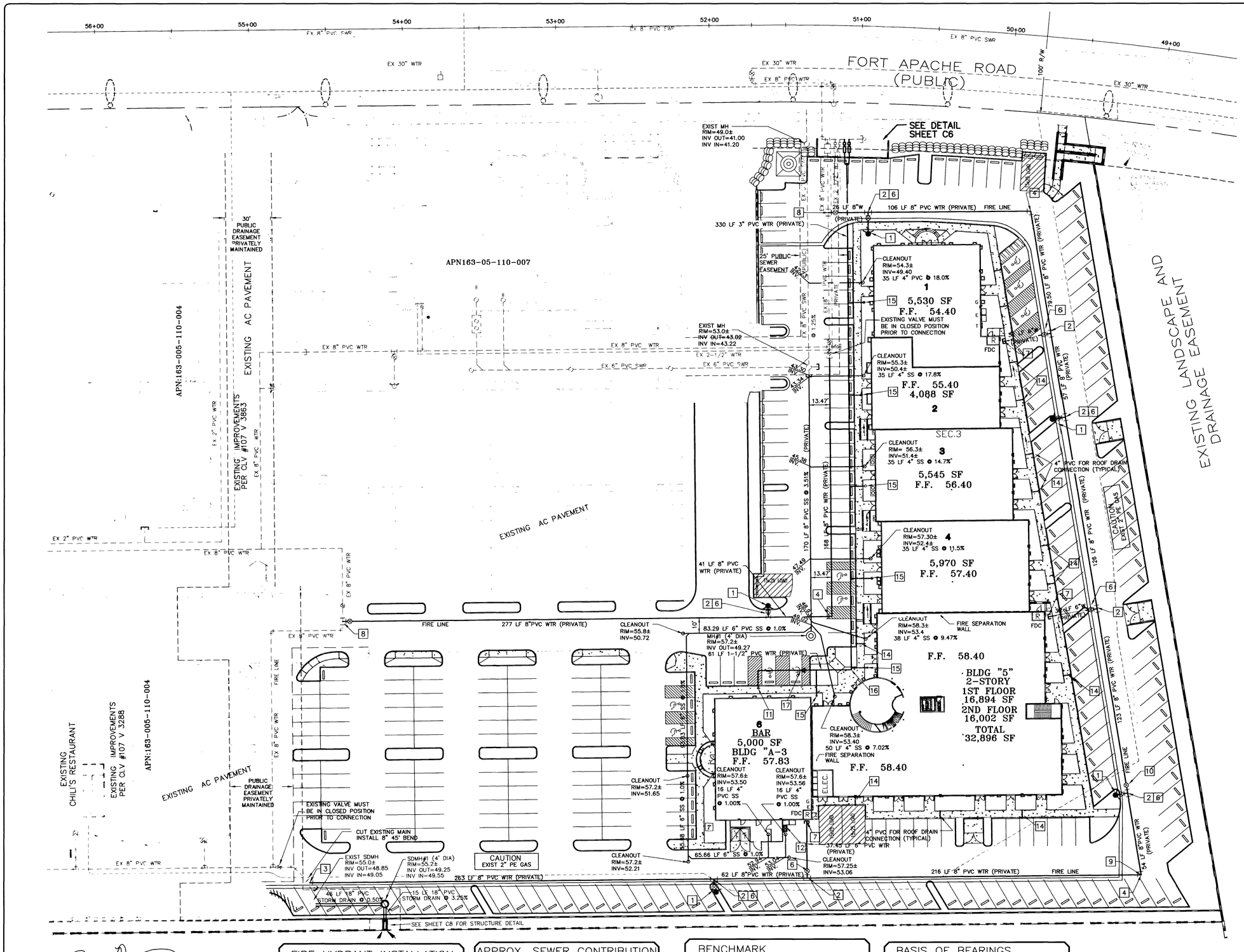

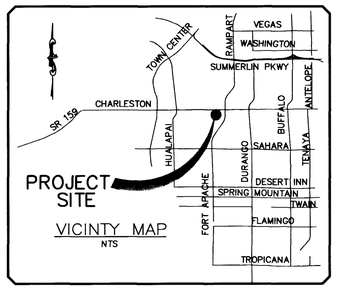

ENGINEER'S NOTES

1. EXISTING UTILITY LOCATIONS SHOWN HEREIN 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.

   CALL BEFORE YOU DIG: 1-800-782-5348.
2. SEE MECHANICAL PLANS FOR LOCATIONS, SIZES, AND DEPTHS OF ALL ONSITE UTILITIES AT THE PROPOSED BUILDINGS
3. SEE ELECTRICAL PLAN FOR ONSITE LIGHTING AND POWER SUPPLY
4. SEE LANDSCAPE PLANS FOR ONSITE IRRIGATION
5. NOTIFY ENGINEER OF ANY DISCREPANCIES IMMEDIATELY
6. ALL LANDSCAPE CONNECTIONS SHALL HAVE BACKFLOW PREVENTORS. ALL FIRE SERVICES SHALL BE CONSTRUCTED PER 1997 U.P.C. SECTION 603.4.18
8. MANHOLE STATIONS ARE MEASURED ALONG CENTER LINE OF SEWER AND FROM CENTER TO CENTER OF MANHOLE.
9. CONCRETE COLLARS SHALL BE INSTALLED AROUND ALL MANHOLES & CLEANOUTS IN PAVED AREAS PER STD DWG #408

FIRE FLOW DATA

FIRE FLOW IS 2,812 GPM AT 20 psi RESIDUAL PRESSURE

BASED ON: SQUARE FOOTAGE:	32,896 SF
AREA BETWEEN 4 HOUR AREA SEPARATION WALLS:	32,896 SF
BUILDING HEIGHT:	32
NUMBER OF STORIES:	2 LEVEL
TYPE OF CONSTRUCTION:	II - NR
OCCUPANCY GROUP:	M
FULL AUTOMATIC FIRE SYSTEM:	YES

CONSTRUCTION NOTES

1. INSTALL FIRE HYDRANT ASSEMBLY PER UDACS PLATE No. 7
2. INSTALL 8"x 6" TEE PER UDACS PLATE No. 5
3. INSTALL 8" 45° BEND PER UDACS PLATE No. 5
4. INSTALL 8" 90° BEND PER UDACS PLATE No. 5
5. INSTALL 8"X10" TAPPING TEE (COMPLETE W/VALVE)
6. INSTALL 6" GATE VALVE PER UDACS PLATE No. 3
7. INSTALL CAP W/ 2" BLOWOFF PER UDACS PLATE No. 4A
8. INSTALL 8"X8" TAPPING TEE (COMPLETE W/VALVE)
9. INSTALL 8" 22-1/2° BEND PER UDACS PLATE No. 5
10. INSTALL 8" GATE VALVE PER UDACS PLATE No. 3
11. INSTALL 1-1/2" SHUT OFF STUB AND CAP
12. GREASE INTERCEPTOR (SEE ARCHITECTS PLANS)
14. INSTALL 4" PVC FOR ROOF DRAIN CONNECTIONS
15. INSTALL 1" SHUT OFF STUB AND CAP
16. 2 1/2" 90° BEND
17. 2 1/2" x 1 1/2" REDUCER

REDUCED PRESSURE PRINCIPLE ASSEMBLY

(2) - 1 1/2" - (PER PLATE NO. 11A)

REDUCED PRESSURE PRINCIPLE ASSEMBLY (RPPA)

APPROVED REDUCED PRESSURE PRINCIPLE ASSEMBLY(S) SHALL BE INSTALLED PER THE UDACS PLATE No. 11A. NO WATER SHALL BE TAKEN FROM A SERVICE REQUIRING BACKFLOW PREVENTION UNTIL THE REDUCED PRESSURE PRINCIPLE ASSEMBLY HAS BEEN SUCCESSFULLY TESTED BY THE LVVWD.

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.

APPROVAL:

LAS VEGAS VALLEY WATER DISTRICT — DATE
PROJ. #28842

CITY OF LAS VEGAS FIRE DEPARTMENT — DATE 1/30/04

FIRE HYDRANT INSTALLATION

FIRE HYDRANT(S) TO BE INSTALLED IN ACCORDANCE WITH THE UDACS STANDARD PLATE NO. 7

APPROX. SEWER CONTRIBUTION

AVERAGE FLOW	=	0.0250 MGD
PEAK FLOW	=	0.0400 MGD

NOTE:
MANHOLE STATIONS ARE MEASIRED ALONG CENTER LINE OF SEWER AND FROM CENTER TO CENTER OF MANHOLE.

NOTE:
CONCRETE COLLARS SHALL BE INSTALLED AROUND ALL MANHOLES & CLEANOUTS IN PAVED AREAS PER STD DWG #408

BENCHMARK

NATIONAL GEODETIC VERTICAL DATUM OF 1988
1LV105NW6, RIVET & PLATE IN TOP OF CURB ON THE EAST SIDE OF FORT APACHE & ±370 FEET NORTH OF PECCOLE STRADA.

ELEVATION = 2758.05 (FEET) 840.6557 (METERS)
CITY OF LAS VEGAS CURRENT DATUM

ELEVATION (USED)= 2755.528
(FOR CONVERSION TO CURRENT DATUM, ADD 2.52')

BASIS OF BEARINGS

NORTH 89°26'21" EAST, BEING THE BEARING OF THE SOUTH LINE OF THE SOUTHWEST QUARTER (SW 1/4) OF THE SOUTHWEST QUARTER (SW 1/4) OF SECTION 32, TOWNSHIP 20 SOUTH, RANGE 60 EAST, M.D.M. CITY OF LAS VEGAS, CLARK COUNTY, NEVADA, AS SHOWN ON THAT CERTAIN MAP ON FILE IN THE CLARK COUNTY RECORDERS OFFICE IN FILE 098 OR PARCEL MAPS AT PAGE 0054 THEREOF

AVOID HITTING OVERHEAD UTILITY LINES (TO CUTS.) Call before you OVERHEAD 1-702-593-6111 NEVADA POWER CORPORATE OFF. SAFETY SERVICES DEPARTMENT

AVOID CUTTING UNDERGROUND UTILITY LINES (TO CUTS.) Call before you Dig. 1-800-227-2600 UNDERGROUND SERVICE ALERT (USA)

PECCOLE NEVADA CORP.
851 S RAMPART BLVD., SUITE 220
LAS VEGAS, NEVADA 89145
PHONE (702) 933-1111 / FAX (702) 933-1133

AMEC Infrastructure, Inc.
4670 S. FORT APACHE ROAD, SUITE 190
LAS VEGAS, NEVADA 89147
PHONE (702) 948-9300 FAX (702) 948-9399

UTILITY SHEET

PROJECT: FORT APACHE-COMMONS COMMERCIAL & OFFICE DEVELOPMENT
LAS VEGAS, NEVADA

DESIGNER: LQA
DRAWN BY: LQA

PROFESSIONAL ENGINEER STATE OF NEVADA DAVID E. POTTER No. 8880 CIVIL
EXP 12-31-05

JOB NO. 2001-601

107V3923

SHEET NO. C5 of 9