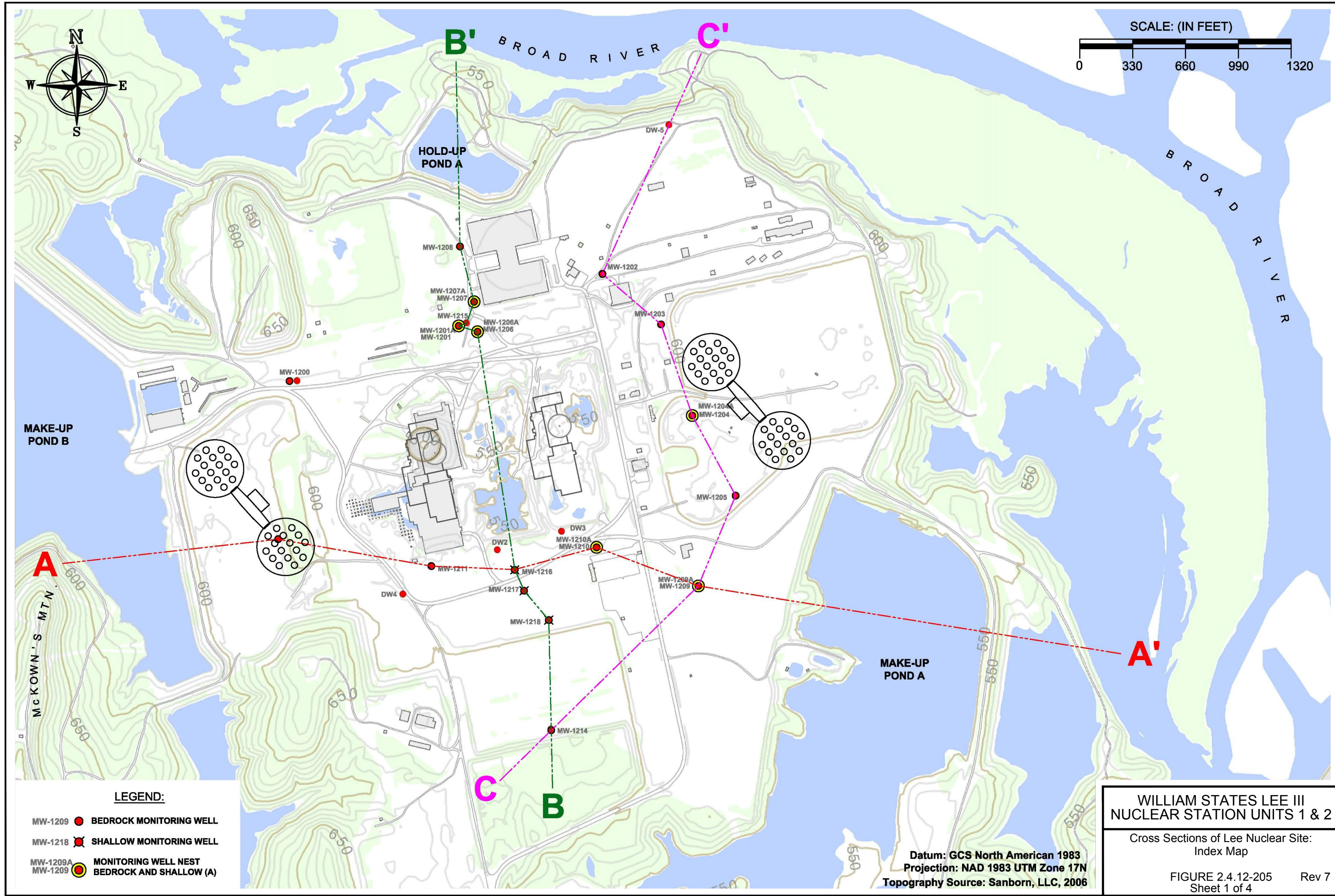


WLS
COL 2.4-4



WILLIAM STATES LEE III
NUCLEAR STATION UNITS 1 & 2

Cross Sections of Lee Nuclear Site:
Index Map

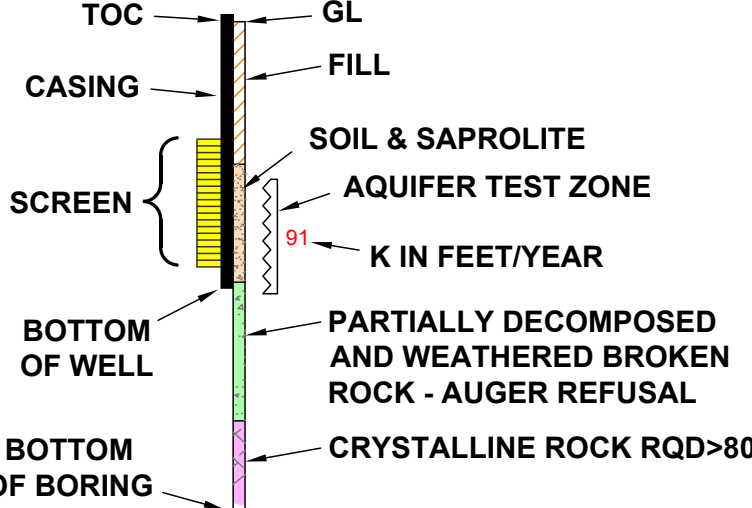
FIGURE 2.4.12-205
Sheet 1 of 4

Rev 7

HISTORICAL TOPOGRAPHIC DATA FROM USGS BLACKSBURG SOUTH SC QUADRANGLE MAP (DATED 1971).
HISTORICAL WATER LEVEL DATA FROM CHEROKEE PSAR AND ER

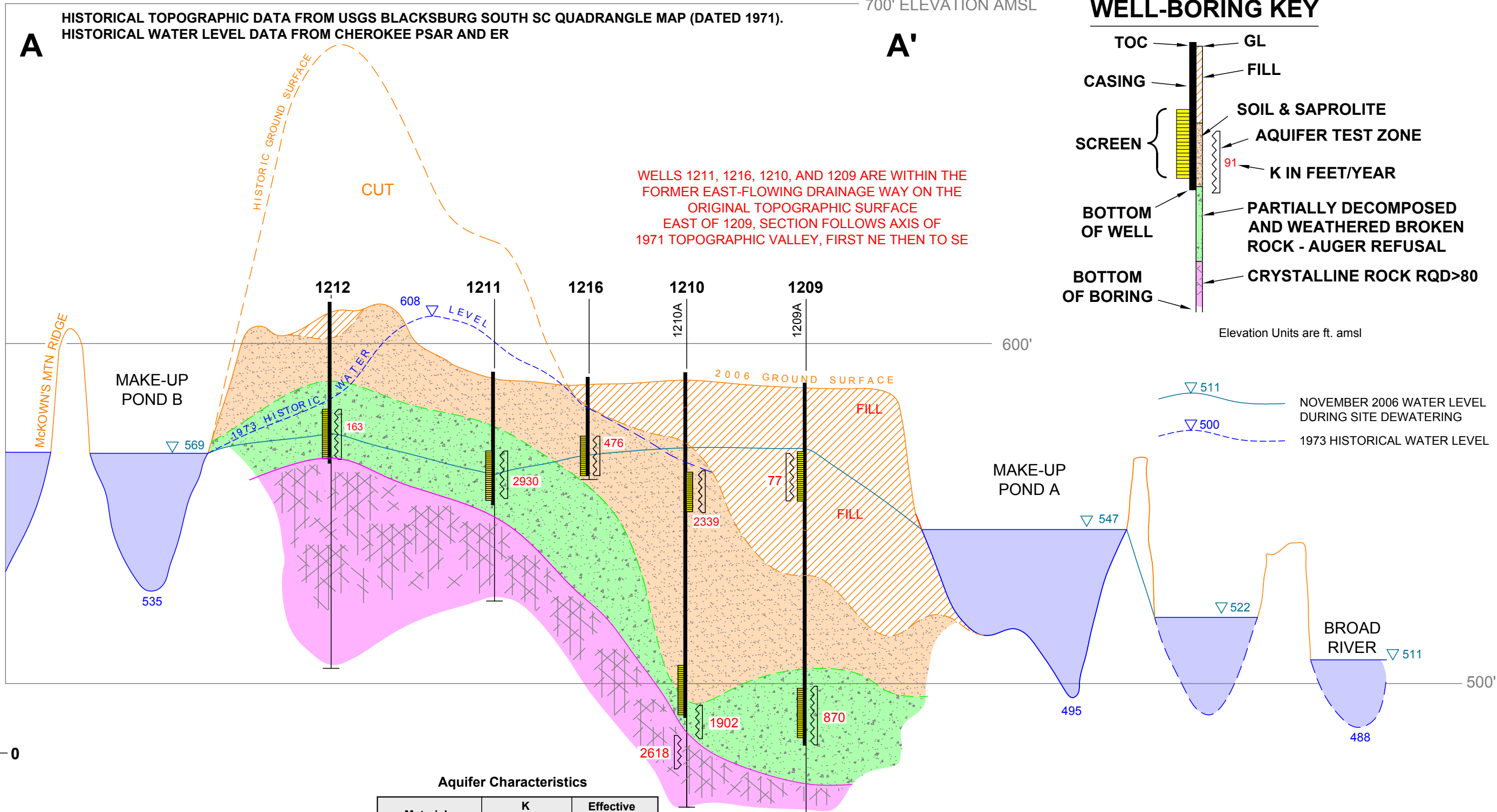
700' ELEVATION AMSL

WELL-BORING KEY



Elevation Units are ft. amsl

WELLS 1211, 1216, 1210, AND 1209 ARE WITHIN THE FORMER EAST-FLOWING DRAINAGE WAY ON THE ORIGINAL TOPOGRAPHIC SURFACE EAST OF 1209, SECTION FOLLOWS AXIS OF 1971 TOPOGRAPHIC VALLEY, FIRST NE THEN TO SE



Aquifer Characteristics

Material	K (cm/s)	Effective Porosity
Fill Material	7.0×10^{-5}	9%
Soil and Saprolite	4.5×10^{-4}	20%
Partially Weathered Rock	1.4×10^{-3}	8%

Well construction details are provided in Table 2.4.12-201.

WILLIAM STATES LEE III
NUCLEAR STATION UNITS 1 & 2

Cross Sections of Lee Nuclear Site:
A - A'

FIGURE 2.4.12-205 Rev 5
Sheet 2 of 4

THIS FIGURE ILLUSTRATES GENERAL HYDROLOGIC CONDITIONS AT LEE NUCLEAR SITE.

700' ELEVATION AMSL

B

Aquifer Characteristics

	Material	K (cm/s)	Effective Porosity
	Fill Material	7.0×10^{-5}	9%
	Soil and Saprolite	4.5×10^{-4}	20%
	Partially Weathered Rock	1.4×10^{-3}	8%

Groundwater exists at the site as a single undifferentiated aquifer, comprised of soils, saprolite, PWR, and competent bedrock. For conservatism, the calculation of potential contaminant transport velocities used the slightly higher hydraulic conductivity and the lower effective porosity values of PWR.

B'

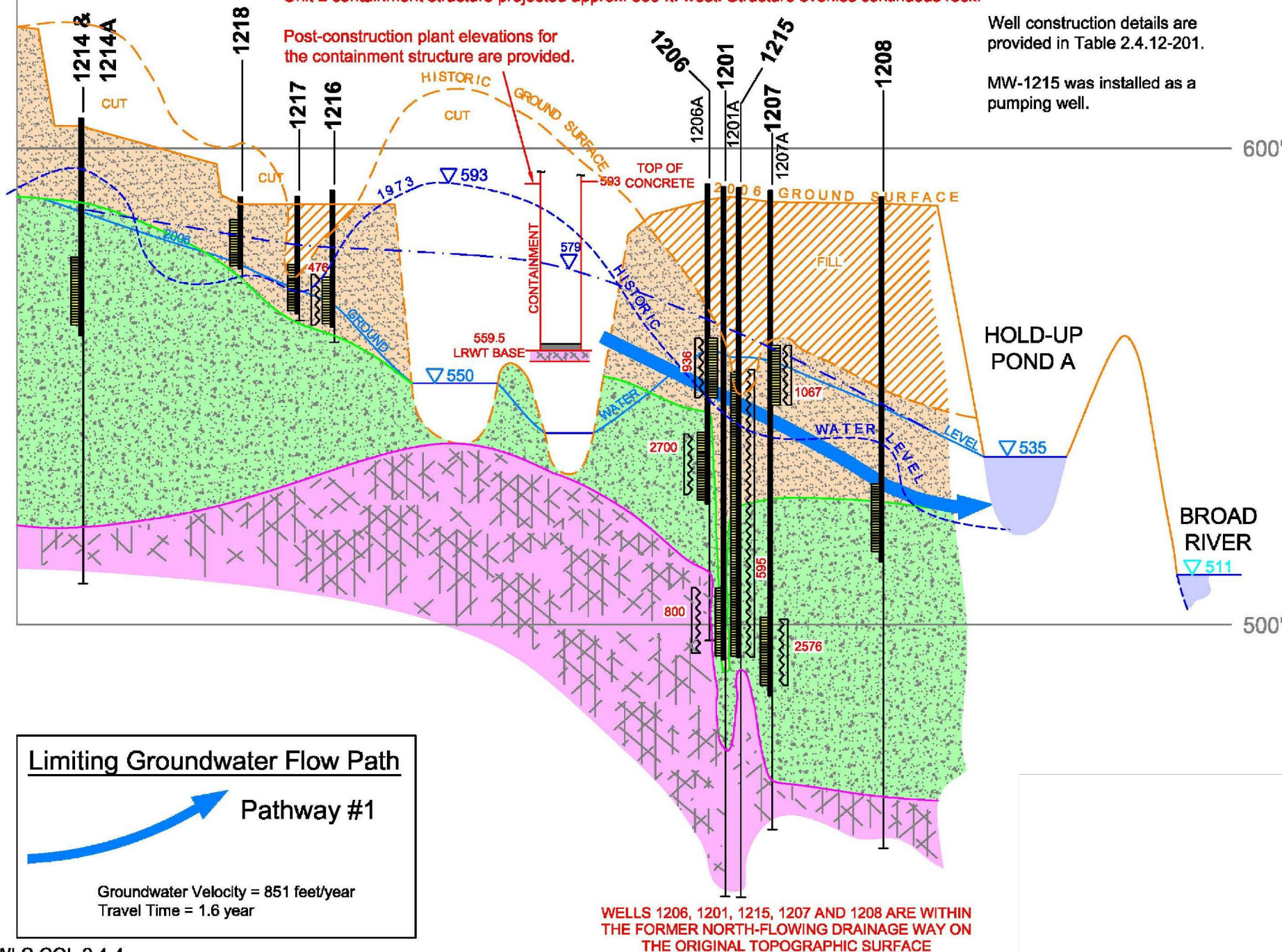
HISTORICAL TOPOGRAPHIC DATA FROM USGS BLACKSBURG SOUTH SC QUADRANGLE MAP (DATED 1971).
HISTORICAL WATER LEVEL DATA FROM CHEROKEE PSAR AND ER

Unit 2 containment structure projected approx. 330 ft. west. Structure overlies continuous rock.

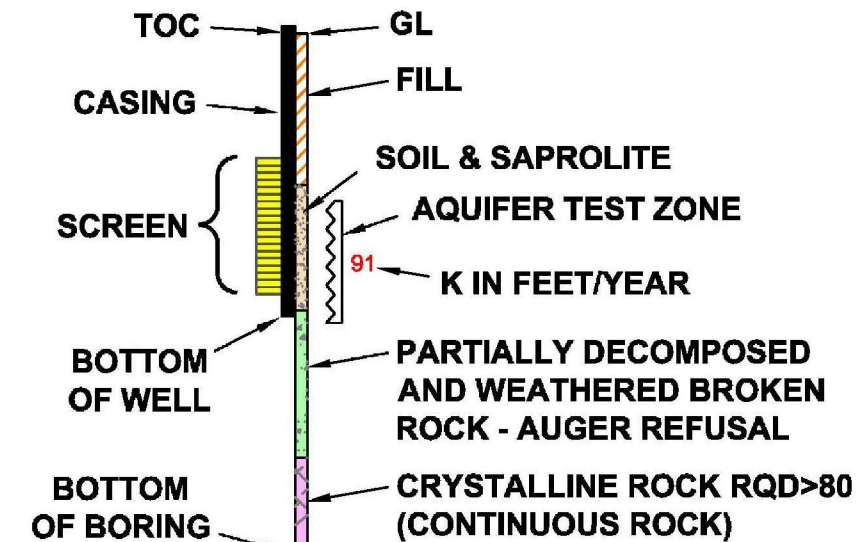
Post-construction plant elevations for the containment structure are provided.

Well construction details are provided in Table 2.4.12-201.

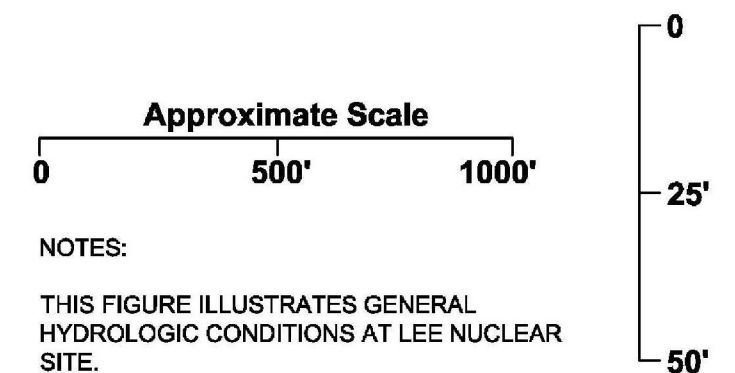
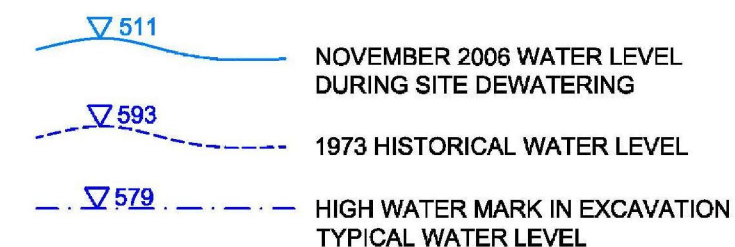
MW-1215 was installed as a pumping well.



WELL-BORING KEY



Elevation Units are ft. amsl



NOTES:

THIS FIGURE ILLUSTRATES GENERAL HYDROLOGIC CONDITIONS AT LEE NUCLEAR SITE.

DIFFERENCE IN VERTICAL AND HORIZONTAL SCALE RESULTS IN EXAGGERATED STRATIGRAPHIC ELEVATION CHANGES, ESPECIALLY IN AREAS OF HIGH DATA DENSITY.

POST-CONSTRUCTION SURFACE TOPOGRAPHY IS SHOWN ON APPENDIX 9.1, FIGURE 4.

WILLIAM STATES LEE III
NUCLEAR STATION UNITS 1 & 2

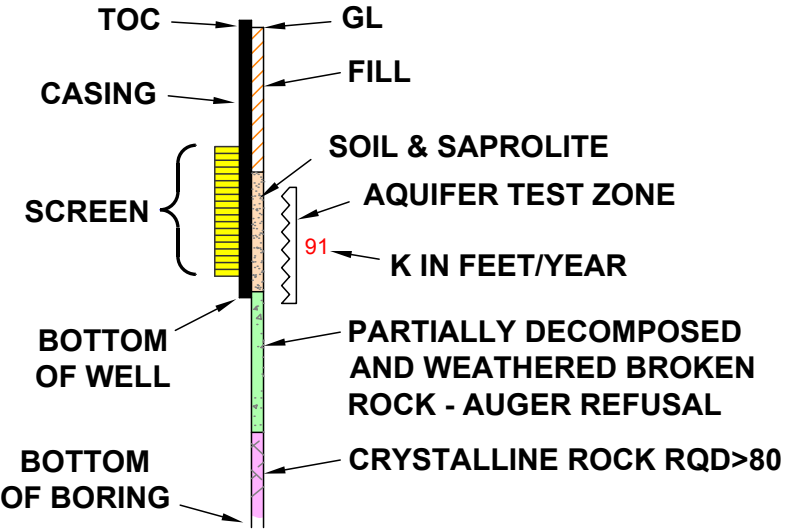
Cross Sections of Lee Nuclear Site:
B - B'

FIGURE 2.4.12-205
Sheet 3 of 4

Rev 7

HISTORICAL TOPOGRAPHIC DATA FROM USGS BLACKSBURG SOUTH SC QUADRANGLE MAP (DATED 1971).
HISTORICAL WATER LEVEL DATA FROM CHEROKEE PSAR AND ER

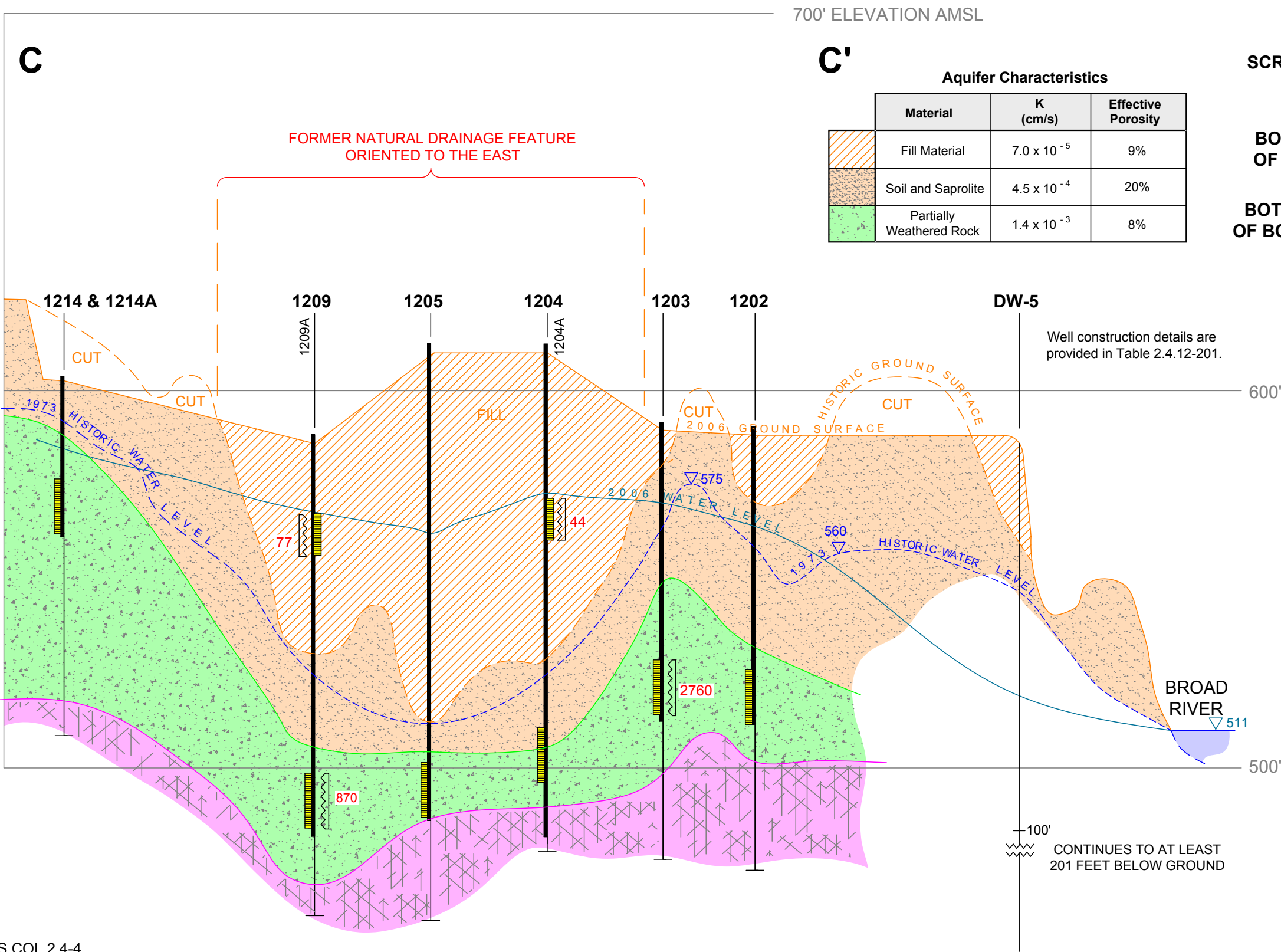
WELL-BORING KEY



Elevation Units are ft. amsl

Aquifer Characteristics

Material	K (cm/s)	Effective Porosity
Fill Material	7.0×10^{-5}	9%
Soil and Saprolite	4.5×10^{-4}	20%
Partially Weathered Rock	1.4×10^{-3}	8%



NOVEMBER 2006 WATER LEVEL DURING SITE DEWATERING

1973 HISTORIC WATER LEVEL

Approximate Scale

0 500' 1000' 1500'

THIS FIGURE ILLUSTRATES GENERAL HYDROLOGIC CONDITIONS AT LEE NUCLEAR SITE.

0

25'

50'

WILLIAM STATES LEE III
NUCLEAR STATION UNITS 1 & 2

Cross Sections of Lee Nuclear Site:
C - C'

FIGURE 2.4.12-205 Rev 5
Sheet 4 of 4