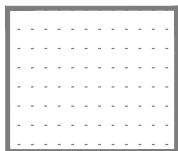
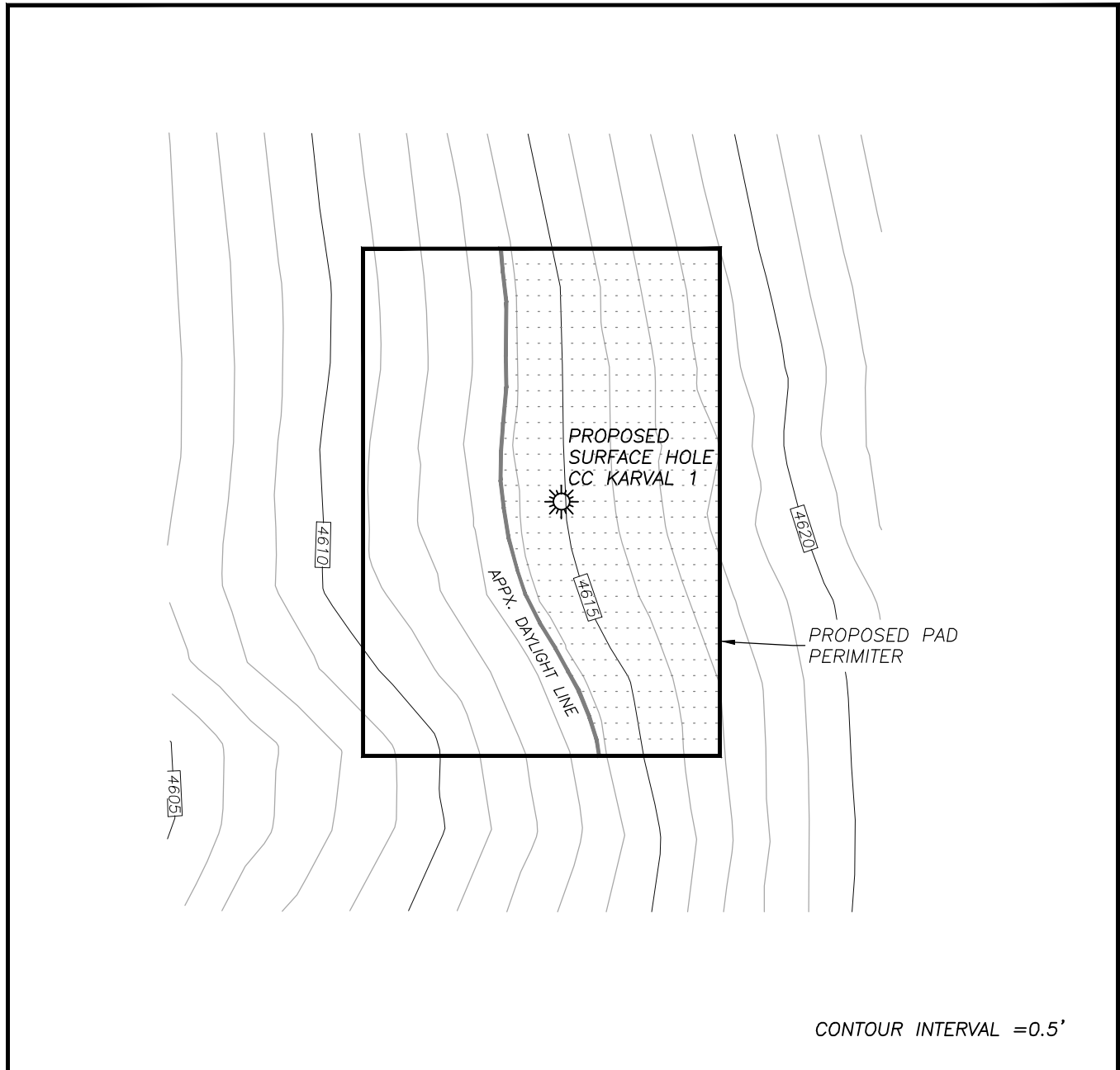


EXISTING CONTOURS CC KARVAL 1

SECTION 23, TOWNSHIP 17 SOUTH, RANGE 53 WEST OF THE 6TH PRINCIPAL MERIDIAN



AREA OF
PROPOSED CUT

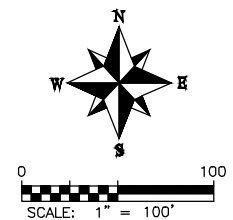
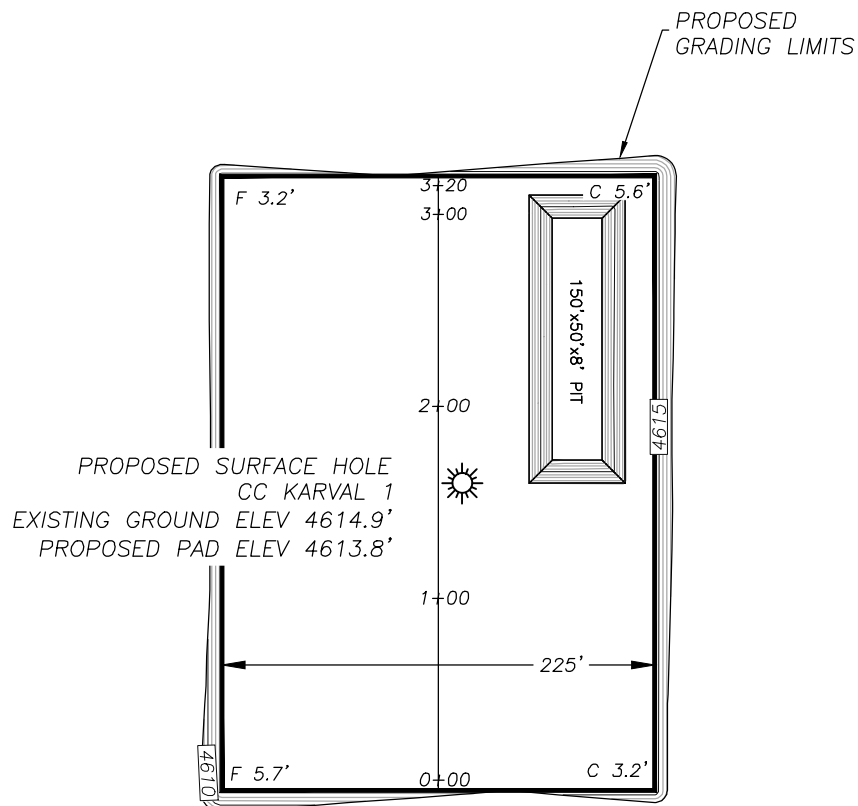


0 100
SCALE: 1" = 100'

PROPOSED PAD CONTOURS

CC KARVAL 1

SECTION 23, TOWNSHIP 17 SOUTH, RANGE 53 WEST OF THE 6TH PRINCIPAL MERIDIAN



CONTOUR INTERVAL = 1.0'

CC KARVAL 1

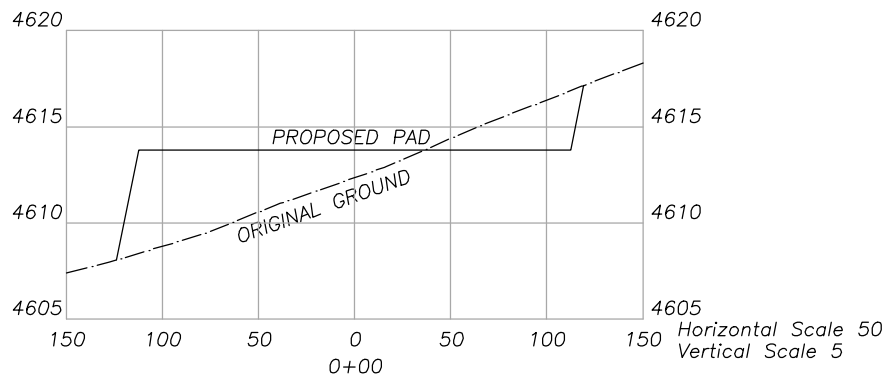
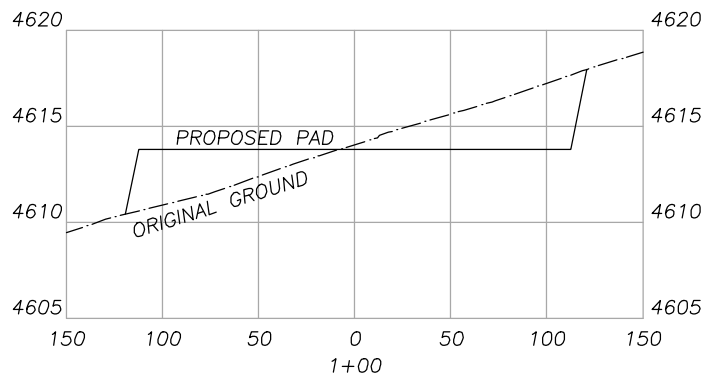
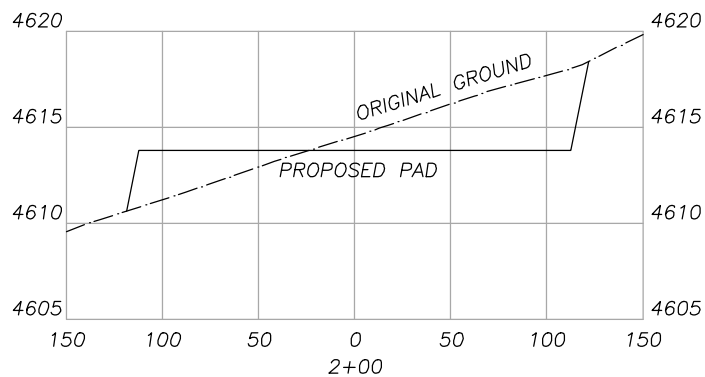
Top of pad elevation: 4613.8'
Cut slope ratio: 2.0
Fill slope ratio: 2.0
Cut Swell Factor: 1.00
Fill Shrink Factor: 1.00

Pad Earthwork Volumes
Total cut: 3364 C.Y.
Total fill: 2484 C.Y.
Balance Export: 880 C.Y. (4" Topsoil)
Area: 1.8 Acres

Estimated Pit Volume
Assumed side slopes of 1.5:1
150'x50'x8'
Volume: 1571 C.Y. including
Topsoil

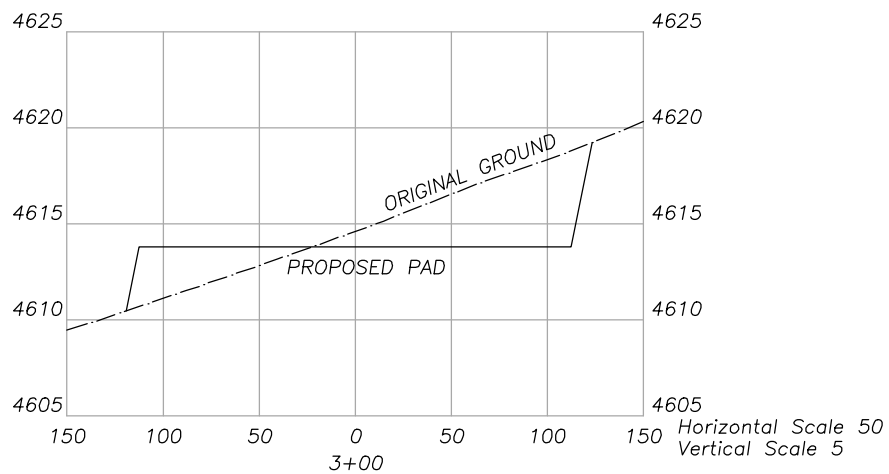
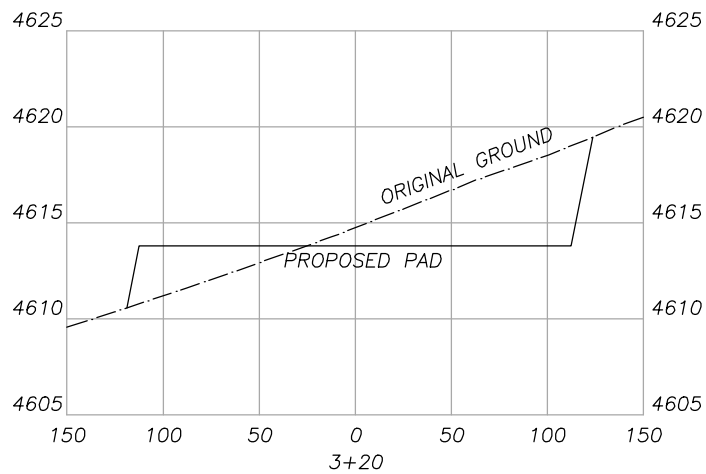
PROPOSED PAD CROSS SECTIONS CC KARVAL 1

SECTION 23, TOWNSHIP 17 SOUTH, RANGE 53 WEST OF THE 6TH PRINCIPAL MERIDIAN



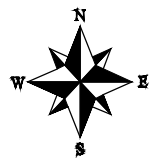
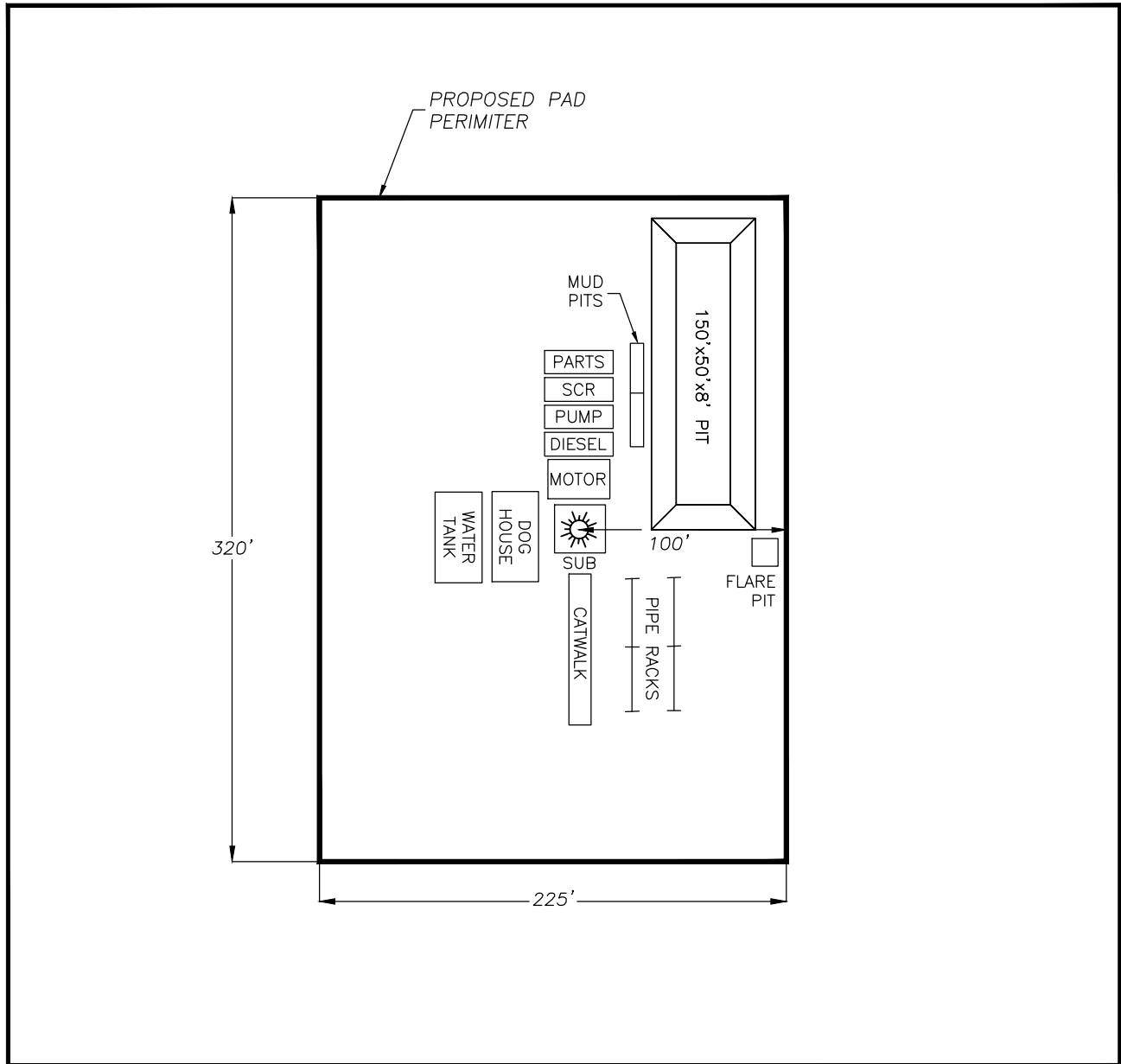
PROPOSED PAD CROSS SECTIONS CC KARVAL 1

SECTION 23, TOWNSHIP 17 SOUTH, RANGE 53 WEST OF THE 6TH PRINCIPAL MERIDIAN



PROPOSED RIG LAYOUT CC KARVAL 1

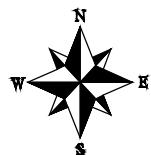
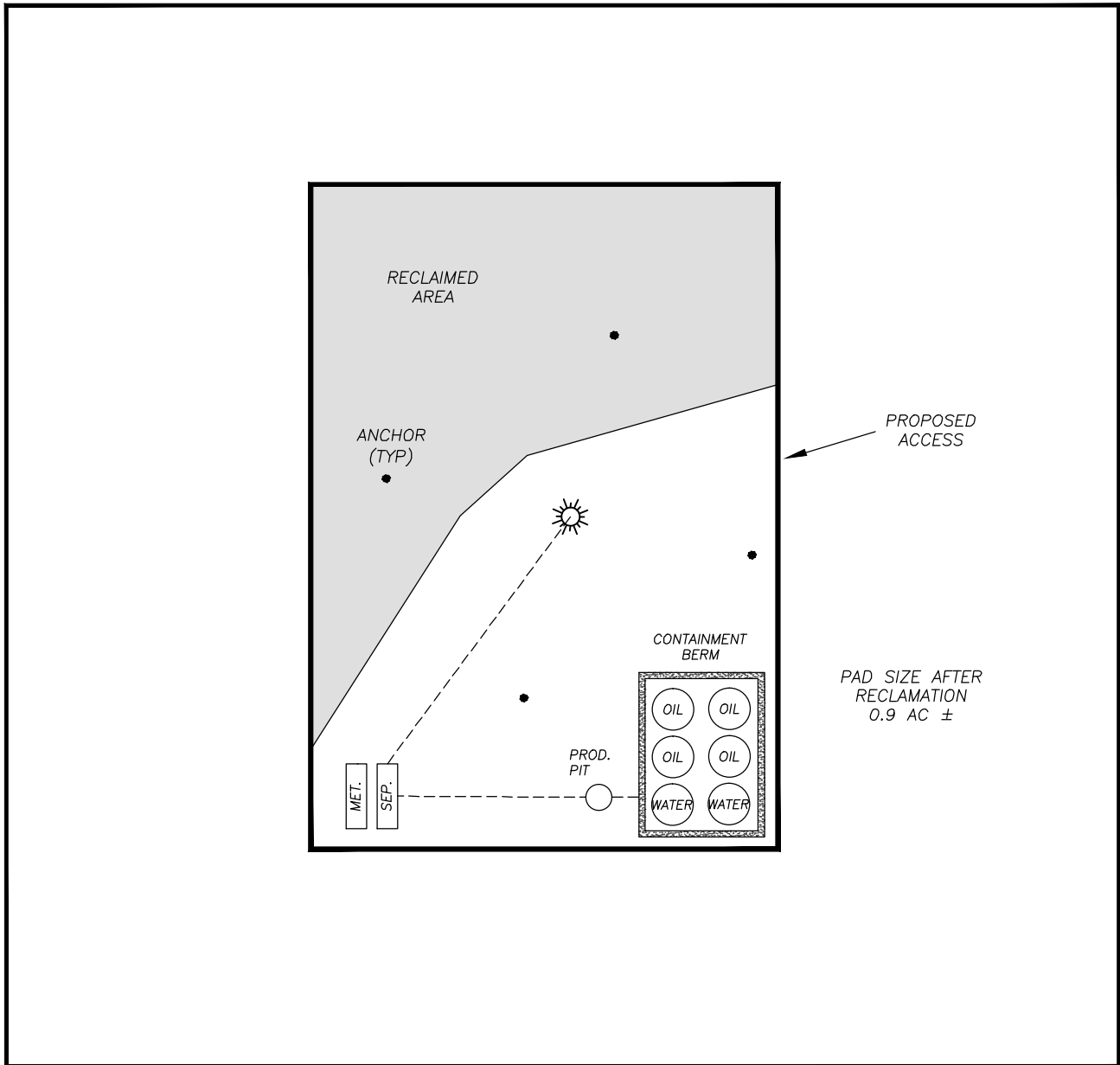
SECTION 23, TOWNSHIP 17 SOUTH, RANGE 53 WEST OF THE 6TH PRINCIPAL MERIDIAN



0 80
SCALE: 1" = 80'

PROPOSED PRODUCTION FACILITY CC KARVAL 1

SECTION 23, TOWNSHIP 17 SOUTH, RANGE 53 WEST OF THE 6TH PRINCIPAL MERIDIAN



0 80
SCALE: 1" = 80'