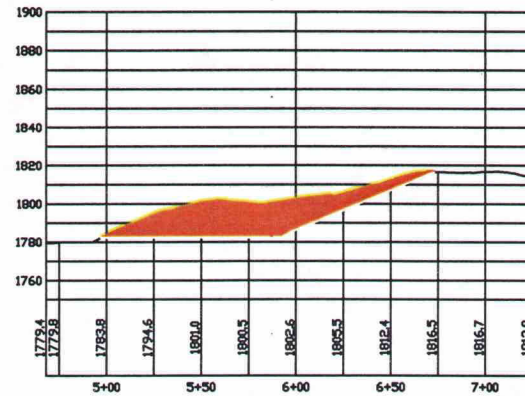


Camp Ridge

| | | | | | |
|------------------------|--------|-------------|------------------|---------|-------------|
| TOTAL OVERBURDEN CUT = | 7,709 | Cubic yards | TOTAL PIT AREA = | 104,078 | Square feet |
| TOTAL GRAVEL CUT = | 77,731 | Cubic yards | | 2.4 | Acres |
| TOTAL CUT = | 85,441 | Cubic yards | | | |

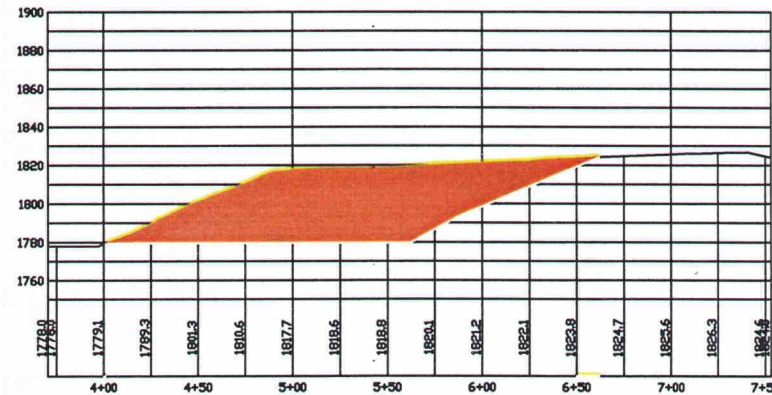
1



1'

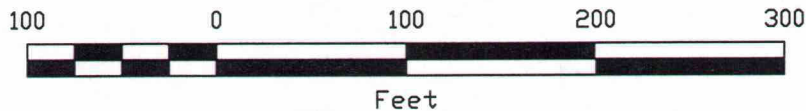
Cross Sectional Pit Area: 2,088 sq ft
 Length of Cross Sectional Area: 176 ft
 Average Depth of Cross Sectional Area: 11.9 ft

2



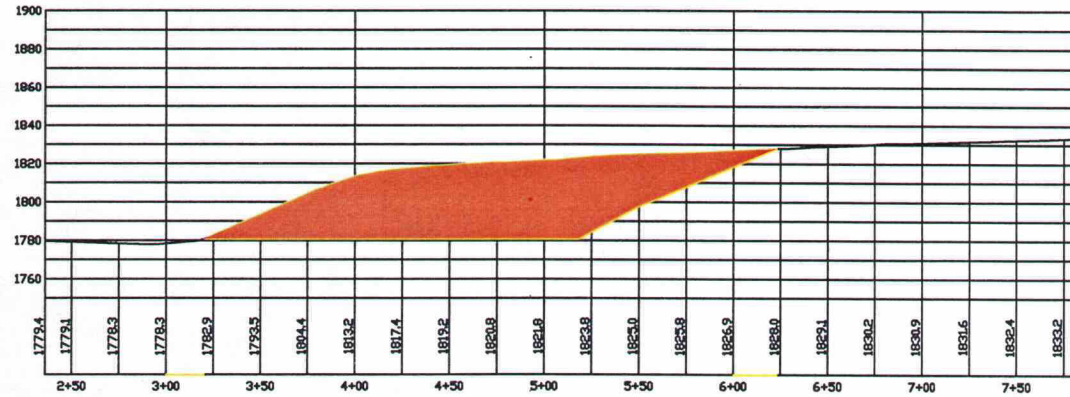
2'

Cross Sectional Pit Area: 6,387 sq ft
 Length of Cross Sectional Area: 261 ft
 Average Depth of Cross Sectional Area: 24.5 ft



Camp Ridge Pit
 Cross Sections 1 & 2

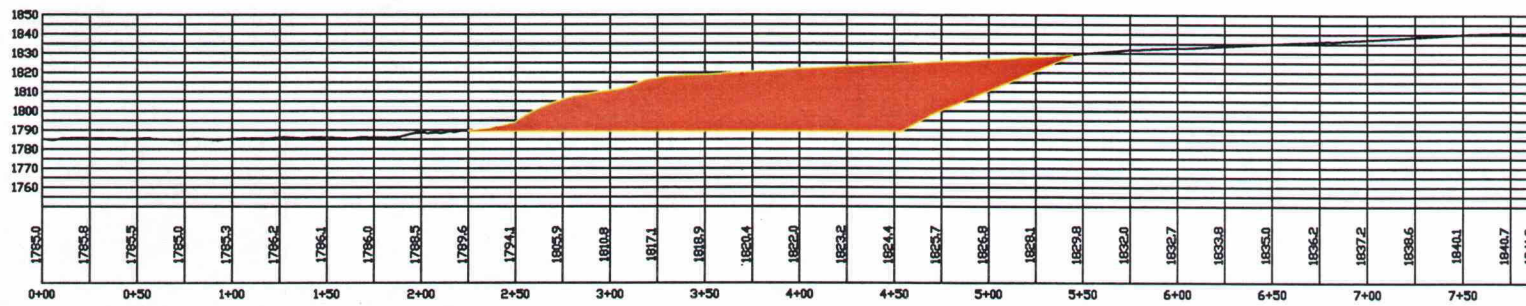
3



3'

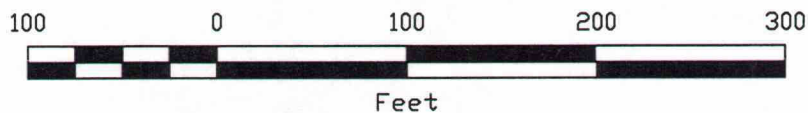
Cross Sectional Pit Area: 8,030 sq ft
 Length of Cross Sectional Area: 303 ft
 Average Depth of Cross Sectional Area: 26.5 ft

4



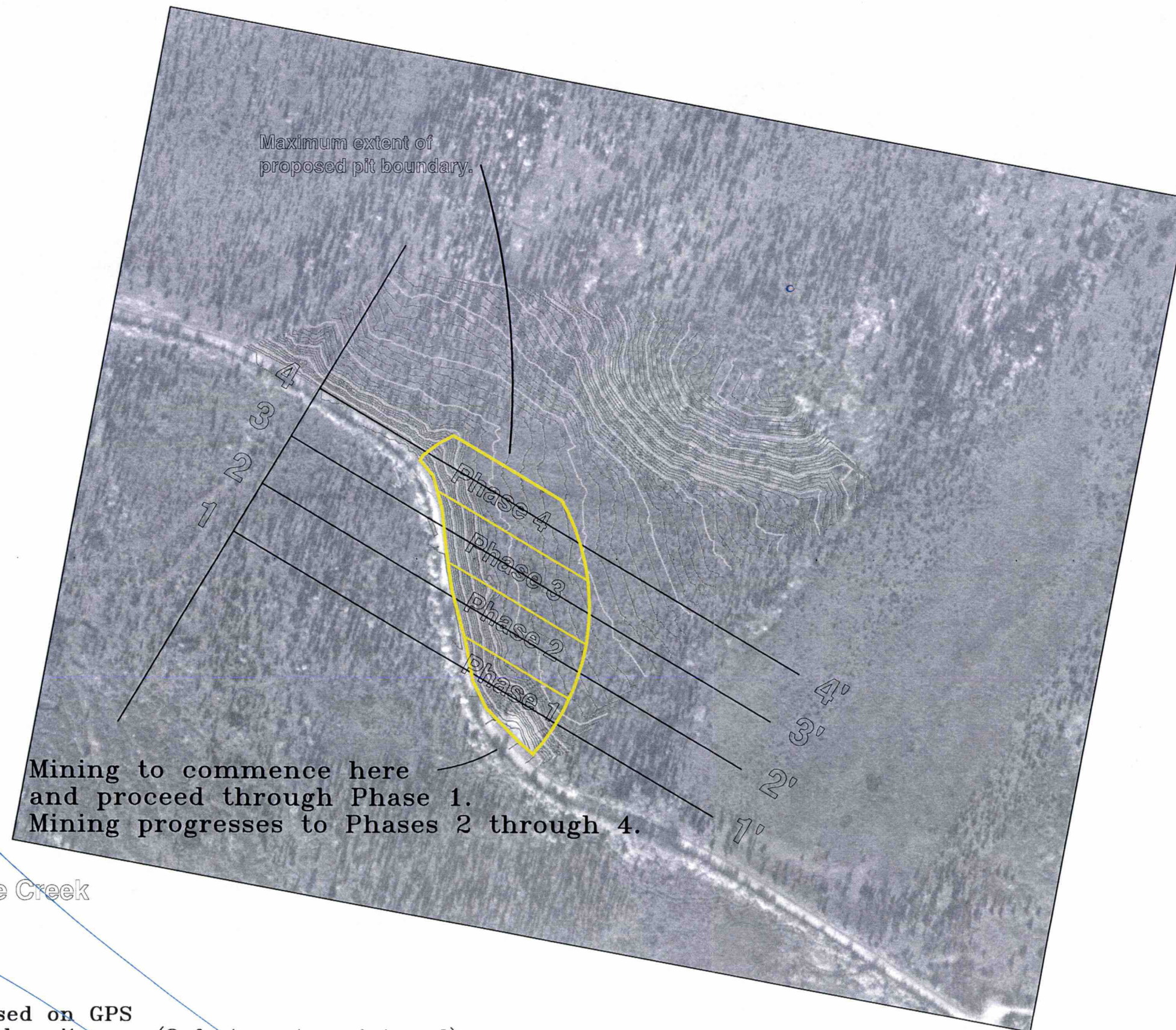
4'

Cross Sectional Pit Area: 6,398 sq ft
 Length of Cross Sectional Area: 319 ft
 Average Depth of Cross Sectional Area: 20.1 ft



Camp Ridge Pit
 Cross Sections 3 & 4

Numbers
identify cross
section locations.



Contours are based on GPS
traverse across the pit area (2 foot contour interval).

Aerial Photo: 9-11-85 (#6810)



100 50 0 100 200 300
GRAPHIC SCALE
IN FEET
CONTOUR INTERVAL 2'

UNITED STATES DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
ALASKA SYSTEMS SUPPORT OFFICE
PHYSICAL RESOURCES

GRAVEL ACQUISITION PLAN
CAMP RIDGE PIT
KANTISHNA, ALASKA

DRAWING NO.

AUTO CAD
FILE NAME

Volume Calculations Kantishna Strip Pit Denali National Park

| X-Section | Average Cross Section Depth (ft) | Estimated Overburden Depth (ft) | Estimated Gravel Depth (ft) | Area of Influence (sq ft) | Overburden Volume (cu.ft.) | Overburden Volume (cu.yds.) | Gravel Volume (cu.ft.) | Gravel Volume (cu.yds.) |
|------------------------|--|---------------------------------------|-----------------------------------|---------------------------------|----------------------------------|-----------------------------------|------------------------------|-------------------------------|
| 2 | 5.1 | 1.0 | 4.1 | 24,481 | 24,481 | 907 | 100,372 | 3,717 |
| 3 | 7.6 | 1.0 | 6.6 | 63,586 | 63,586 | 2,355 | 419,668 | 15,543 |
| 4 | 7.0 | 1.0 | 6.0 | 70,818 | 70,818 | 2,623 | 424,908 | 15,737 |
| 5 | 7.1 | 1.0 | 6.1 | 52,945 | 52,945 | 1,961 | 322,965 | 11,962 |
| 6 | 6.9 | 1.0 | 5.9 | 40,125 | 40,125 | 1,486 | 236,738 | 8,768 |
| 7 | 8.0 | 1.0 | 7.0 | 78,932 | 78,932 | 2,923 | 552,524 | 20,464 |
| TOTAL OVERBURDEN CUT = | | 12,255 | Cubic yards | TOTAL PIT AREA = | | 330,887 | Square feet | |
| TOTAL GRAVEL CUT = | | 76,192 | Cubic yards | | | 7.6 | Acres | |
| TOTAL CUT = | | 88,447 | Cubic yards | | | | | |