R25E

T 25 N

ROSS PIT
Graded & 12" NAG in 1999
Cover with 18" Soil
6" Ruby Tailings

Rubble Slope
Cover Sulfides with NAG Fill

NORTH RUBY SADDLE TOPSOIL STOCKPILE
Utilize
18" Soil
6" Ruby Tailings

SHELL BUTTE

RUBY SULFIDE STOCKPILE
Removed in 2000-2001

SOUTH RUBY SADDLE TOPSOIL STOCKPILE
Used in 2000

SOUTH RUBY WASTE ROCK DUMP
Dump Removed in 2000-2001
18" Soil
6" Ruby Tailings
24" NAG

Excavation to Lower Road

COUNTY ROAD TO LANDUSKY

NORTH ALABAMA PIT
Partial Backfill Cap
5.41 ac PVC/HDPE

RUBY PIT
Backfilled to Free-draining in 2000-2001
Cap
22 ac Water Barrier

MINT PIT
Backfilled to Free-draining in 2000-2001
18" Soil
6" Ruby Tailings
24" NAG

1985-1986 LEACH PAD

85/86 PAD DRAINAGE NOTCH
Cut Notch & Use Excavated Material To Build 85/86 Dike Buttress
18" Soil
6" Ruby Tailings
24" NAG

Excavate for Fill

O.K. PIT
Grade to Direct Drainage
Use as Borrow Source
Reduce Slopes to 3H:1V
Cover Pit and Pad
18" Soil
6" Ruby Tailings
24" NAG

Cover with 18" Soil
6" Ruby Tailings
24" NAG

SOUTH ALABAMA PIT
Reduce Highwall, Grade & Cover Sulfides
18" Soil
6" Ruby Tailings
24" NAG

82 TOPSOIL STOCKPILE
Used in 2000

O.K. WASTE ROCK DUMP
Salvage Soil, Regrade To 3H:1V, 18" Soil, 6" Ruby Tailings, 24" NAG

85/86 DIKE
Fill to 2½:1
18" Soil
6" Ruby Tailings

SEEPAGE COLLECTION SYSTEM
No Action

BARREN POND
Reclaim

82 PAD SLOPE
Regrade to 2 1/2H:1V
18" Soil, 6" Ruby Tailings, 24" NAG

1982 LEACH PAD

WATER TREATMENT PLANT
No Action
REFINERY **Remove**
Reclaim
WHITCOMB MILL
Remove

RUBY GULCH CAPTURE POND
No Action

Remove Most Tailings
Reestablish Stream Channel
Leave Road

DEGERSTROM SHOP
Remove Building
18" Soil
6" Ruby Tailings
1 Acre

1982 SULFIDE STOCKPILE
Removed & Regraded in 2000 - 2001
18" Soil
6" Ruby Tailings
24" NAG

82 POND
No Action

WTP POND
No Action

89 DIKE
Additional Revegetation

1989 LEACH PAD
Reclaimed in 2000-2001

RUBY GULCH PUMPBACK
No Action

Excavate Stockpiles
12" Soil

EAST TAILINGS STOCKPILE

WEST TAILINGS STOCKPILE

ALDER GULCH WASTE ROCK DUMP
Remove Upper Dump
Cap
12.33 ac PVC/HDPE

No Action

1979-1981 LEACH PAD
Additional Revegetation

SLUDGE PIT

1983 LEACH PAD
Reclaimed in 2000-2001

DEBRIS
Reclaimed in 2000-2001

83 DIKE
Additional Revegetation

1984 LEACH PAD
Reclaimed in 2000-2001

84 DIKE
Additional Revegetation

CARTER GULCH SEEPAGE CAPTURE SYSTEM
No Action

ZORTMAN EMERGENCY GENERATOR
No Action

RUBY GULCH TAILINGS

CARTER GULCH

CARTER BUTTE

ALDER SPUR SEEPAGE CAPTURE SYSTEM
No Action

ALDER SPUR

ZORTMAN GUARD SHACK AND GATE
Remove Shack and Gate
12" of Soil

0 200 400 600 800
Scale in Feet

SOURCE: Spectrum Engineering 2001

Alternative Z6
Caps are defined as:
- Water Barrier
  - Flat (<25% Slope)
    - 12" Soil
    - 12" Ruby Tailings
    - 24" NAG
    - PVC Liner
  - Water Balance
  - Steep (>25% Slope)
    - 12" Soil
    - 12" Ruby Tailings
    - Geotextile Filter Fabric
    - 24" NAG

R25E

ALTERNATIVE Z6: RECLAMATION GOAL IS TO COVER SULFIDES WITH MINIMAL PIT BACKFILL AND MAXIMIZE AREAS RECLAIMED.

ZORTMAN MINE ALTERNATIVE Z6

FIGURE 2.4-8