R25E

T 25 N

ROSS PIT
Graded & Covered with 1-Foot of NAG in 1999
Add 12" Soil

Rubble Slope Cover Sulfides with NAG Fill

NORTH RUBY SADDLE TOPSOIL STOCKPILE
Utilize 12" Soil

RUBY SULFIDE STOCKPILE
Removed in 2000-2001

SOUTH RUBY SADDLE TOPSOIL STOCKPILE
Used in 2001

SHELL BUTTE

SOUTH RUBY WASTE ROCK DUMP
Dump Removed in 2000-2001
12" Soil
12" NAG

Excavate to Lower Road

COUNTY ROAD TO LANDUSKY

NORTH ALABAMA PIT

RUBY PIT
Backfilled to Free-draining in 2000-2001

Additional Backfill from Alder/OK Dumps
Cap
5.98 ac GCL
28.46 ac Fabric

O.K. PIT

MINT PIT
Backfilled in 2000-2001
12" Soil
36" NAG
GCL Liner

1985-1986 LEACH PAD
Grade to Direct Drainage
Use as Borrow Source
Reduce Slopes to 3H:1V

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

Grade for Positive Drainage
12" Soil
36" NAG
GCL Liner

Excavate for Fill

Cover With NAG and Soil

SOUTH ALABAMA PIT
Graded & Sulfides Covered in 2001
12" Soil
36" NAG
GCL Liner

82 TOPSOIL STOCKPILE
Used in 2000

O.K. WASTE DUMP
Salvage Soil
Remove Dump
12" Soil

Cap Pit and Pad
17.77 ac GCL
15.22 ac Fabric

85/86 DIKE
Fill to 2½:1
Cap-Fabric

SEEPAGE COLLECTION SYSTEM

BARREN POND
Reclaim

WATER TREATMENT PLANT
No Action
Remove Refinery

WHITCOMB MILL
No Action

RUBY GULCH CAPTURE POND

RUBY GULCH PUMPBACK
No Action

Remove Tailings
Stream Restoration
Sediment Control
Road Construction
12" Soil

82 PAD SLOPE
Regrade
12" Soil
12" NAG

1982 LEACH PAD

1982 SULFIDE STOCKPILE
Removed & Regraded In 2000-2001
12" Soil
12" NAG

Remove Bldg.
12" Soil 1 Ac.

DEGERSTROM SHOP

82 POND
No Action

WTP POND
No Action

1989 LEACH PAD
Reclaimed in 2000 - 2001

89 DIKE
Additional Revegetation

EAST TAILINGS STOCKPILE

WEST TAILINGS STOCKPILE

1979-1981 LEACH PAD
Additional Revegetation

SLUDGE PIT

Upgrade Leach Pads with Water Barrier/ Water Balance Covers

1983 LEACH PAD
Reclaimed in 2000 - 2001

ALDER GULCH WASTE ROCK DUMP

Salvage Topsoil
Remove Entire Dump
12" Soil
Cover 12" NAG

DEBRIS
Reclaimed in 2000-2001

1984 LEACH PAD
Reclaimed in 2000 - 2001

83 DIKE
Additional Revegetation

84 DIKE
Additional Revegetation

ZORTMAN EMERGENCY GENERATOR
No Action

RUBY GULCH TAILINGS

CARTER GULCH

CARTER GULCH SEEPAGE CAPTURE SYSTEM
No Action

CARTER BUTTE

ALDER SPUR SEEPAGE CAPTURE SYSTEM
No Action

LS-2 LIMESTONE QUARRY
Excavate 490,200 LCY of NAG
12" Soil
Reclaim 11.05 Acres of New Disturbance

ALDER SPUR

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

0 200 400 600 800
Scale in Feet

SOURCE: Spectrum Engineering 2001

Alternative Z1
Caps are defined as:
- Water Barrier
  - Flat: (< 25% Slope)
    - 12" Soil
    - 36" NAG
    - GCL Liner
  - Water Balance
  - Steep: (>25% Slope)
    - 36" Soil plus Subsoil
    - Geotextile Filter Fabric
    - 12" NAG

R25E

ALTERNATIVE Z1: RECLAMATION PERFORMED IN ACCORDANCE WITH THE 1996 FINAL EIS, ALTERNATIVE 3 AND 1998 RECORD OF DECISION.

ZORTMAN MINE
ALTERNATIVE Z1

FIGURE 2.4-3