BILL OF MATERIALS

Concrete 1:2.4 mix 2 1/2 cu. yds.
- cement 15 sacks
- sand 1.1 cu. yds.
- gravel 2.2 cu. yds.

Posts
- 6"x6"x12'0" 2 ea
- 6"x6"x10'0" 2
- 6"x6"x9'0" 2

Rails
- 2"x6"x14'0" 8
- 2"x10"x14'0" 2

Steel angle
- 4"x3"x1/2"x6'0" 1

Steel reinforcing
- 1/2" rods 32 ft.
- steel anchor bolts 5/8"x11" with 3" plate washers 6 ea
- 1/2" x 3" 2
- Lag screws 1/2"x4" 36 ea

5/8"x11" Steel anchor bolts, with plate washers embedded in concrete

Fence built same on other side and bolted to wall

2"x10"x1/4"x0", 1/2" above concrete

Tamped earth and rock fill

Reinforcing rods* 3/4" angle iron, bolted

Concrete wall, 8" thick

Grade

6'0" Post 12'0" long

3"x4"x10'0" long

6'x6" Post 9'0" long

Posts creosoted, or otherwise treated, to height of the concrete.

ISOMETRIC VIEW OF LOADING RAMP

Scale 1/2" = 1'-0"

* Make ramp 8'-0" wide if it is to be used for loading machinery, & reinforce corners with 1/2" rods 4'-0" long, 12" o.c.