

Assumptions:	Parameters
Total Disturbance (acres)	1.03
Pit (acres)	1.03
Import Topsoil 6 inches (yd ³)	376
Topsoil Cost (per/yd ³)	\$23
Backfill Cost (per/yd ³)	\$9.00
Road base Cost (per/yd ³)	\$21.75
Transport Cost (per/36 yd ³) Pit to Saratoga	\$180
Guardrail (per/L.F.)	\$15.18
1 yd ³ = 1.5 tons	
Belly Dump Capacity 24 tons or 36 yd ³ per load	
North Highwall Length (ft)	308
North Highwall Height (ft)	6.0
North Highwall Volume of Backfill (lcy)	616
South Highwall Length (ft)	308
South Highwall Approximate Height (ft)	35
South Highwall Volume of Backfill (lcy)	868
South Highwall Volume of Road Base (lcy)	2605

Estimated Cost:

North and South Highwall Backfill Cost Estimate - G12A	Cost
North Highwall Backfill D8 Dozer @ 0% Grade and 100 ft push distance (lcy)	\$0.288
North Highwall Material Movement Cost	\$177
North Highwall Backfill Material Cost	\$5,544
North Highwall Transport Cost	\$3,080
South Highwall Reduction D8 Dozer @ 0% Grade and 100 ft push distance (lcy)	\$0.288
South Highwall Material Movement Cost	\$3,000
South Highwall Import Backfill Material Cost	\$7,812
South Highwall Import Road Base Cost	\$56,658
South Highwall Transport Cost	\$17,365
Guardrail Cost	\$4,675
Highwall Backfill Total Cost	\$96,313

Final Grade Cost Estimate - G12A	Cost
Final Grade Cat 140 Grader	\$40.43
Total Disturbance (acres)	1.03
Final Grade Total Cost	\$41.64

Scarify Cost Estimate - G12A	Cost
Scarification of Compacted Surface Cat 140 Motor Grader (per/acre)	\$43.57
Total Disturbance (acres)	1.03
Scarify Total Cost	\$44.88

Topsoil Redistribution - G12A	Cost
Topsoil/Push/Pull Scraper 627 500 ft Haul Distance (per/bcy)	\$0.608
Topsoil Movement Cost	\$229
Import Topsoil Material Cost	\$8,658
Import Topsoil Material Transport Cost	\$1,882.22
Topsoil/Overburden Redistribution Total Cost	\$10,769.32

Revegetation	Cost
Tractor w/seed drill (per/acre)	\$600.00
Total Disturbance (acres)	1.03
Seed Mix	\$800.00
Revegetation Cost	\$1,418.00

ASCM Installation/Maintenance	Cost
ASCM Installation/Maintenance	\$0.00

Scope of Work Subtotal	\$108,587
Contingency Fee (40%)	\$43,435
Scope of Work Total Cost	\$152,021

Notes:

1 - LQD included a guardrail and construction costs to the bond estimate for public safety. The guardrail installed above the highwall will protect the public from accidental entry and will increase the safety of motor vehicles.

Link to Site Photographs:

\\efs.wyo.gov\020_deq_data\Division\LQD\PERMITS\1496ET Quality Landscape (Randy Stevens)\2020\Photos

\$6.00/ton
\$14.50/ton

3,473

North Highwall

308ft. Length



c = 19ft.

18 Degrees = 3:1 slope

b = 18ft. Width

Highwall layback to calculate volume

South Highwall

308ft. Length



c = 47ft.

18 Degrees = 3:1 slope

b = 45ft. Width

Highwall layback to calculate volume

Plain View

South Highwall
~15ft. Height
308 ft. Length

West

North Highwall
6ft. Height
308 ft. Length

Assumptions:	Parameters
Total Disturbance (acres)	1.03
Pit (acres)	1.03
Import Topsoil 6 inches (yd ³)	376
Topsoil Cost (per/yd ³)	\$23
Backfill Cost (per/yd ³)	\$8.48
Road base Cost (per/yd ³)	\$20.03
Transport Cost (per/36 yd ³) Pit to Saratoga	\$380
Retaining Wall Cost (per/L.F.)	\$487.53
Guardrail Cost (per/L.F.)	\$15.11
1 yd ³ = 1.5 tons	
Belly Dump Capacity 24 tons or 36 yd ³ per load	
North Highwall Length (ft)	308
North Highwall Height (ft)	6.0
North Highwall Volume of Backfill (cy)	240
South Highwall Length (ft)	308
South Highwall Approximate Height (ft)	15

Estimated Cost:

North and South Highwall Backfill Cost Estimate - G12A	Cost
North Highwall Backfill D8 Dozer @ 0% Grade and 100 ft push distance (cy)	\$0.288
North Highwall Material Movement Cost	\$69
North Highwall Backfill Material Cost	\$2,034
North Highwall Transport Cost	\$1,200
Retaining Wall 10 ft (per/L.F.)	\$150,159
Guardrail Cost	\$4,654
Highwall Backfill Total Cost	\$153,462

Final Grade Cost Estimate - G12A	Cost
Final Grade Cat 140 Grader	\$40.43
Total Disturbance (acres)	1.03
Final Grade Total Cost	\$41.64

Scarify Cost Estimate - G12A	Cost
Scarification of Compacted Surface Motor Grader 16M (per/acre)	\$43.57
Total Disturbance (acres)	1.03
Scarify Total Cost	\$44.88

Topsoil Redistribution - G12A	Cost
Topsoil/Push/Pull Scraper 627 500 ft Haul Distance (per/bcy)	\$0.608
Topsoil Movement Cost	\$229
Import Topsoil Material Cost	\$8,658
Import Topsoil Material Transport Cost	\$1,882.22
Topsoil/Overburden Redistribution Total Cost	\$10,769.32

Revegetation	Cost
Tractor w/seed drill (per/acre)	\$600.00
Total Disturbance (acres)	1.03
Seed Mix	\$800.00
Revegetation Cost	\$1,418.00

ASCM Installation/Maintenance	Cost
ASCM Installation/Maintenance	\$0.00

Scope of Work Subtotal	\$165,736
Contingency Fee (40%)	\$66,294
Scope of Work Total Cost	\$232,031

Notes:

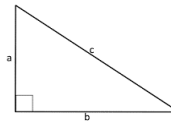
- 1 - LQD included a retaining wall and construction costs to the bond estimate for public safety. The retaining wall construction will stabilize the 15 ft. highwall and the adjacent property.
- 2 - LQD included a guardrail and construction costs to the bond estimate for public safety. The guardrail installed above the highwall will protect the public from accidental entry and will increase the safety of motor vehicles.

\$4.25/ton
\$10.35/ton

240

North Highwall

308ft. Length



c = 19ft.

18 Degrees = 3:1 slope

b = 18ft. Width

Highwall layback to calculate volume

Plain View

