



COLORADO
Division of Reclamation,
Mining and Safety
Department of Natural Resources

August 6, 2025

Alan Parkerson
Parkerson Construction, Inc.
710 S. 15th St
Grand Junction, CO 81501

Re: 31 Road Pit - File No. M-1987-178
Parkerson Construction, Inc.
Surety Increase (SI-4)
Surety Increase

Dear Alan Parkerson:

On August 6, 2025 the Division of Reclamation, Mining and Safety increased the current Financial Warranty for this permit to \$572,475.00, in accordance with Rule 4.2.1 of the Rules and Regulations. This is an increase of \$67,020.00.

Post inspection surety increase to account for reclamation progress and inflation from 2022 to 2025.

Please see the July 8, 2025 inspection report for details regarding why this surety increase is required.

On August 6, 2025, the Division ordered amendment of the current Financial Warranty or submittal of a new Financial Warranty reflecting the increase, within 60 days.

Please make arrangements with Sara M. Stevenson-Benn at the Division's Denver office for submittal of the financial warranty. Any other questions regarding completion, execution and/or submittal of financial warranty forms should also be directed to Sara M. Stevenson-Benn by telephone at (303) 866-3567, or by email at Sara.stevenson-benn@state.co.us.

The Permittee for this site may be scheduled for a Formal Board Hearing for possible revocation of the permit if the amount of any increased Financial Warranty has not been provided by October 5, 2025.

Bond Held:	\$505,455.00
Prior Liability:	\$505,455.00
Change in Liability:	\$67,020.00
Revised Liability:	\$572,475.00



Prior Permit Acreage:	60.50
Change in Permit Acreage:	0.00
Revised Permit Acreage:	60.50
Prior Affected Acreage:	60.50
Change in Affected Acreage:	0.00
Revised Affected Acreage:	60.50

If you have any questions, please contact me by telephone at (970) 210-1272, or by email at Amy.yeldell@state.co.us.

Sincerely,



Amy C. Yeldell
Environmental Protection Specialist



July 17, 2025

Alan Parkerson
Parkerson Construction, Inc.
710 S. 15th St
Grand Junction, CO 81501

RE: 31 Road Pit, Permit No. M-1987-178, Proposed Surety Increase (SI-4)

Dear Mr. Parkerson:

This reclamation cost update was in response to the site inspection conducted on July 8, 2025. It is Division policy to periodically update its costs to ensure that the Financial Warranty adequately, reflects the actual current cost of fulfilling the requirements of the approved reclamation plan.

The bond was last recalculated in 2022 with SI-3 which used 2021 costs. Below is a table summarizing input values that have been updated based on site conditions, **changes are in red**. This table does not account for price changes resulting from inflation or other RS Means cost changes. Bond calculations are based on a combination of field observations and worst case scenario based on the approved reclamation plan.

Task	Form Used	Description
01a	Demo	Remove scale house On site disposal in existing pit
02a	Scraper	Regrade pit slopes to 3H: 1V transport and backfill South 300 LF of 1H: 1V backfill @ 40' H = 17,778 CY East 330 LF near vertical backfill @ 40' H = 29,333 CY Total = 47,111 CY moved avg 450 LF for placement
02b	Dozer	Regrade pit slopes to 3H: 1V cut/fill Prev: East 500 LF near vertical 1H:1V @ 40' H = 5,926 CY South 300 LF 1H:1V @ 40' H = 4,444 CY



02c	Dozer	Topsoil pit slopes, includes utilizing visual berms Prev: 1130 LF x 120' W= 3.11 ac @ 6" = 2,508 CY+1833 CY for berms to be spread Total = 4,341 CY push 100' 300 LF x 120' W= 0.83 ac @ 6" = 670 CY+1833 CY for berms to be spread Total = 2,503 CY push 100'
02d	Reveg	Reveg pit slopes w/ dryland mix 3.11 ac slopes + 1 ac existing touch up= 4.11 ac 30% failure since irrigation is available
03a	Scraper	Apply overburden to pit floor 53 ac pit floor, 4.8 ac under pile = 48.2 ac 48.2 ac @12" = 77,762 CY 650 LF move w/ scraper then spread w/ grader
03b	Scraper	Apply topsoil to pit floor 53 ac pit floor, 5.2 ac under pile = 47.8 ac 47.8 ac @12" = 77,117 CY 500 LF move w/ scraper then spread w/ grader
03c	Ripper	Rip compacted areas under stockpile footprints 4.8 ac under overburden and 5.2 ac under topsoil = 10 ac ripped
04a		Initial Mobilization Added foreman truck
04b		Secondary Mobilization
Indirect		Added engineering and bid prep per Division policy

Per policy I wanted to send this out for review prior to issuance. Please look it over and let me know if there are errors or concerns. If no response is received by **Friday, August 1, 2025** then I'll issue SI-4 the following Monday as is. SI-4 will result in a total required bond amount of **\$572,476**, which is an increase of \$67,020 over the \$505,455 currently held.

Please feel free to contact me with any further questions. Amy Yeldell at the Division of Reclamation, Mining and Safety, Rm 215, 1001 E 62nd Ave, Denver CO 80216. Direct contact can be made by phone at 970-210-1272 or via email at amy.yeldell@ state.co.us

Sincerely,

A handwritten signature in blue ink that reads "Amy Yeldell". The signature is written in a cursive, flowing style.

Amy Yeldell
Environmental Protection Specialist

Ec:
Travis Marshall, Senior EPS, Grand Junction DRMS

COST SUMMARY WORK

Task description: Post inspection update

Site: 31 Road Pit

Permit Action: 2025

Permit/Job#: M1987178

PROJECT IDENTIFICATION

Task #: ACY

State: Colorado

Abbreviation: None

Date: 7/17/2025

County: Mesa

Filename: M178-acy

User: ACY

Agency or organization name: DRMS

TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
01a	Remove site structures	DEMOLISH	1	2.00	\$116
02b	Reduce slopes to 3H:1V	DOZER	2	7.25	\$4,779
02c	Topsoil pit slopes and knock down visual berms	DOZER	2	1.87	\$1,235
02d	Reveg pit slopes w/ dry rangeland	REVEGE	1	8.00	\$4,774
03a	Apply overburden to pit floor	SCRAPER1	3	36.34	\$214,420
03b	Apply topsoil to pit floor	SCRAPER1	3	36.10	\$212,969
03c	Rip areas under stockpiles	RIPPER	2	7.63	\$5,406
04a	Initial Mobilization	MOBILIZE	1	3.00	\$14,980
04b	Secondary Mobilization	MOBILIZE	1	3.00	\$856
<u>SUBTOTALS:</u>				105.19	\$459,535

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance: 2.02

Total = \$9,283

Performance bond: 1.05

Total = \$4,825

Job superintendent: 52.59

Total = \$3,951

Profit: 10.00

Total = \$45,954

TOTAL O & P = \$64,012

CONTRACT AMOUNT (direct + O & P) = \$523,547

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs): \$500

Total = \$500

Engineering work and/or contract/bid preparation: 4.25

Total = \$22,251

Reclamation management and/or administration: 5.00

\$26,177

CONTINGENCY: 0.00

Total = \$0

TOTAL INDIRECT COST = \$112,940

TOTAL BOND AMOUNT (direct + indirect) = \$572,475

DEMOLITION WORK

Task description: Remove site structures

Site: 31 Road Pit

Permit Action: 2025

Permit/Job#: M1987178

PROJECT IDENTIFICATION

Task #: 01A

State: Colorado

Abbreviation: None

Date: 7/17/2025

County: Mesa

Filename: M178-01a

User: ACY

Agency or organization name: DRMS

UNIT COSTS

Location adjustment: 90.70 %

Structure or Item Description	Dimensions	Demolition Menu Selection	Quantity	Unit	Unit Cost	Total Cost
Scale house	8 x8 x8	Bldg. (SN) demo./on-site disposal in existing pit or cut - Max. 10,000 ft. haul	512.00	CF	\$0.25	\$128.31

Job Hours: 2.00

Subtotal
(unadjusted): \$128.31

Total Cost
(adjusted for location): \$116.38

BULLDOZER WORKTask description: Reduce slopes to 3H:1VSite: 31 Road PitPermit Action: 2025Permit/Job#: M1987178**PROJECT IDENTIFICATION**Task #: 02BState: ColoradoAbbreviation: NoneDate: 7/17/2025County: MesaFilename: M178-02bUser: ACYAgency or organization name: DRMS**HOURLY EQUIPMENT COST**Basic Machine: Cat D8T - 8SUHorsepower: 310Blade Type: Semi-UniversalAttachment: NAShift Basis: 1 per dayData Source: (CRG)**Cost Breakdown:**

		<u>Utilization %</u>
Ownership Cost/Hour:	\$179.60	NA
Operating Cost/Hour:	\$110.45	100
Ripper own. Cost/Hour:	\$0.00	NA
Ripper op. Cost/Hour:	\$0.00	0
Operator Cost/Hour:	\$39.46	NA

Total unit Cost/Hour: \$329.51Total Fleet Cost/Hour: \$1,977.06**MATERIAL QUANTITIES**Initial Volume: 4,444Swell factor: 1.125Loose volume: 5,000 LCYSource of estimated volume: 300 LF 1H:1V @ 40'HSource of estimated swell factor: Cat Handbook**HOURLY PRODUCTION**Average push distance: 100 feetUnadjusted hourly production: 852.6 LCY/hrMaterials consistency description: Compacted fill or embankment 0.9Average push gradient: 0 %Average site altitude: 4,700 feetMaterial weight: 2,550 lbs/LCYWeight description: Earth - Dry packed**Job Condition Correction Factor**

		<u>Source</u>
Operator Skill:	0.750	(AVG.)
Material consistency:	0.900	(CAT HB))
Dozing method:	1.000	(GEN.)
Visibility:	1.000	(AVG.)

Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(FND-RF)
Push gradient:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.902	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.4043

Adjusted unit production: 344.71 LCY/hr

Adjusted fleet production: **2068.26** LCY/hr

JOB TIME AND COST

Fleet size: 6 Dozer(s)

Unit cost: \$0.956/LCY

Total job time: **2.42** Hours

Total job cost: **\$4,779**

BULLDOZER WORKTask description: Topsoil pit slopes and knock down visual bermsSite: 31 Road PitPermit Action: 2025Permit/Job#: M1987178**PROJECT IDENTIFICATION**Task #: 02CState: ColoradoAbbreviation: NoneDate: 7/17/2025County: MesaFilename: M178-02cUser: ACYAgency or organization name: DRMS**HOURLY EQUIPMENT COST**Basic Machine: Cat D8T - 8SUHorsepower: 310Blade Type: Semi-UniversalAttachment: NAShift Basis: 1 per dayData Source: (CRG)**Cost Breakdown:**

		<u>Utilization %</u>
Ownership Cost/Hour:	\$179.60	NA
Operating Cost/Hour:	\$110.45	100
Ripper own. Cost/Hour:	\$0.00	NA
Ripper op. Cost/Hour:	\$0.00	0
Operator Cost/Hour:	\$39.46	NA

Total unit Cost/Hour: \$329.51Total Fleet Cost/Hour: \$659.02**MATERIAL QUANTITIES**Initial Volume: 2,503Swell factor: 1.215Loose volume: 3,041 LCYSource of estimated volume: 0.83 ac @ 6" + 1883 of bermsSource of estimated swell factor: Cat Handbook**HOURLY PRODUCTION**Average push distance: 100 feetUnadjusted hourly production: 852.6 LCY/hrMaterials consistency description: Consolidated stockpile 1.0Average push gradient: -15 %Average site altitude: 4,700 feetMaterial weight: 1,600 lbs/LCYWeight description: Top Soil**Job Condition Correction Factor**

		<u>Source</u>
Operator Skill:	0.750	(AVG.)
Material consistency:	1.000	(CAT HB)
Dozing method:	1.000	(GEN.)
Visibility:	1.000	(AVG.)

Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(FND-RF)
Push gradient:	1.329	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	1.438	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.9517

Adjusted unit production: 811.42 LCY/hr

Adjusted fleet production: **1622.84** LCY/hr

JOB TIME AND COST

Fleet size: 2 Dozer(s)

Unit cost: \$0.406/LCY

Total job time: **1.87** Hours

Total job cost: **\$1,235**

REVEGETATION WORKTask description: Reveg pit slopes w/ dry rangelandSite: 31 Road PitPermit Action: 2025Permit/Job#: M1987178PROJECT IDENTIFICATIONTask #: 02DState: ColoradoAbbreviation: NoneDate: 7/17/2025County: MesaFilename: M178-02dUser: ACYAgency or organization name: DRMSFERTILIZING**Materials**

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
			Total Fertilizer Materials Cost/Acre	\$0.00

Application

Description	Cost /Acre
	\$
Total Fertilizer Application Cost/Acre	\$0.00

TILLING

Description	Cost /Acre
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)	\$114.13
Total Tilling Cost/Acre	\$114.13

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Indian Ricegrass - Paloma	2.26	7.32	\$47.51
Crested Wheatgrass - Ephraim	1.26	5.79	\$7.08
Sand Dropseed	0.26	31.04	\$3.46
Galleta	3.00	10.95	\$170.29
Western Wheatgrass - Native	2.00	5.05	\$18.44
Totals Seed Mix	8.78	60.14	\$246.79

Application

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Description	Cost /Acre
Broadcast seeding [DMG]	\$279.08
Total Seed Application Cost/Acre	\$279.08

MULCHING and MISCELLANEOUS**Materials**

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Herbicide - 2,4D @ 1.0 pt/ac	1.00	ACRE	\$4.44	\$4.44
Total Mulch Materials Cost/Acre				\$4.44

Application

Description	Cost /Acre
Weed spray, truck, non-aquatic area, nox. [DMG]	\$249.08
Total Mulch Application Cost/Acre	\$249.08

NURSERY STOCK PLANTING

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
					\$
Totals Nursery Stock Cost / Acre					\$0.00

JOB TIME AND COST

No. of Acres: 4.11 Cost /Acre: \$893.52
 Estimated Failure Rate: 30% Cost /Acre*: \$893.52
 *Selected Replanting Work Items: TILLING,SEEDING,MULCHING

Initial Job Cost: **\$3,672.37**
 Reseeding Job Cost: **\$1,101.71**
 Total Job Cost: **\$4,774**
 Job Hours: **8.00**

SCRAPER TEAM WORKTask description: Apply overburden to pit floorSite: 31 Road PitPermit Action: 2025Permit/Job#: M1987178**PROJECT IDENTIFICATION**Task #: 03AState: ColoradoAbbreviation: NoneDate: 7/17/2025County: MesaFilename: M178-03aUser: ACYAgency or organization name: DRMS**HOURLY EQUIPMENT**COSTShift basis: 1 per day

	Equipment Description
-Scraper:	Cat 627G w/push-pull
-Dozer:	Cat D8T - 8SU
Support Equipment -Load Area:	Cat D8T - 8SU
-Dump Area:	NA
Road Maintenance -Motor Grader:	CAT 16M
-Water Truck:	Water Tanker, 3,500 Gal.

Cost Breakdown:**Scraper Work Team****Support Equipment****Maintenance Equipment**

	Scraper	Dozer	Load Area	Dump Area	Motor Grader	Water Truck
%Utilization-machine:	100	100	50	NA	100	50
Ownership cost/hour:	\$240.49	\$179.60	\$179.60	NA	\$78.02	\$17.97
Operating cost/hour:	\$261.36	\$110.45	\$55.23	NA	\$68.53	\$17.54
%Utilization-ripper:	NA	NA	NA	NA	NA	NA
Ripper own. cost/hour:	NA	\$0.00	\$0.00	NA	\$0.00	\$0.00
Ripper op. cost/hour:	NA	\$0.00	\$0.00	NA	\$0.00	\$0.00
Operator cost/hour:	\$59.78	\$39.46	\$39.46	NA	\$58.07	\$38.35
Unit Subtotals:	\$561.63	\$329.51	\$274.28	NA	\$204.62	\$73.85
Number of Units:	6	6	1	0	1	1
Group Subtotals:	Work:	\$5,346.84	Support:	\$274.28	Maint:	\$278.47

Total work team cost/hour: \$5,899.59**MATERIAL QUANTITIES**Initial volume: 77,762

CCY

Swell factor: 1.125Loose volume: 87,482

LCY

Source of estimated volume: 48.2 ac @ 12"Source of estimated swell factor: Cat Handbook**HOURLY PRODUCTION****Scraper Bowl (volume) Basis:**

Material weight: 2,550 lbs/LCY
 Material description: Earth - Dry packed
 Rated Payload: 52,800 pounds
 Payload Capacity: 20.71 LCY

Struck Volume: 15.70 LCY
 Heaped Volume: 22.00 LCY
 Average Volume: 18.85 LCY
 Adjusted Capacity: 18.85 LCY

Cycle Time:Scraper Loading Time: 0.90 MinutesManeuver and Spread Time: 0.60 MinutesJob Condition Correction:

Site Altitude: 4700 feet

	Scraper	Push Dozer	Source
Altitude Adj:	1.000	1.000	(CAT HB)
Job Efficiency:	0.830	0.830	(CAT HB)
Net Correction:	0.830	0.830	

Travel Time:Road Condition: Rutted dirt, little maintenance, no water, 2" tire penetration 5.0Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	650.00	0.00	5.00	5.00	2218	0.46

Haul Time: 0.46 minutesReturn Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	650.00	0.00	5.00	5.00	2814	0.38

Return Time: 0.38 minutesTotal Scraper team cycle time: 2.34 minutesAdjusted for job conditions: 802.33 LCY/HourSelected Number of Scrapers: 2 Scraper(s)Adjusted single scraper team (unit) hourly production: 802.33 LCY/HourAdjusted multiple scraper team (fleet) hourly production: 2,407.00 LCY/HourUnadjusted unit production/hour: 966.67 LCY/Hour

Optimal Number of Scrapers per push dozer: _____

JOB TIME AND COSTFleet size: 3 Team(s)Total job time: 36.34 HoursUnit cost: \$2.451 /LCYTotal job cost: \$214,420

SCRAPER TEAM WORKTask description: Apply topsoil to pit floorSite: 31 Road PitPermit Action: 2025Permit/Job#: M1987178**PROJECT IDENTIFICATION**Task #: 03BState: ColoradoAbbreviation: NoneDate: 7/17/2025County: MesaFilename: M178-03bUser: ACYAgency or organization name: DRMS**HOURLY EQUIPMENT**COSTShift basis: 1 per day

	Equipment Description
-Scraper:	Cat 627G w/push-pull
-Dozer:	Cat D8T - 8SU
Support Equipment -Load Area:	Cat D8T - 8SU
-Dump Area:	NA
Road Maintenance -Motor Grader:	CAT 16M
-Water Truck:	Water Tanker, 3,500 Gal.

Cost Breakdown:**Scraper Work Team****Support Equipment****Maintenance Equipment**

	Scraper	Dozer	Load Area	Dump Area	Motor Grader	Water Truck
%Utilization-machine:	100	100	50	NA	100	50
Ownership cost/hour:	\$240.49	\$179.60	\$179.60	NA	\$78.02	\$17.97
Operating cost/hour:	\$261.36	\$110.45	\$55.23	NA	\$68.53	\$17.54
%Utilization-ripper:	NA	NA	NA	NA	NA	NA
Ripper own. cost/hour:	NA	\$0.00	\$0.00	NA	\$0.00	\$0.00
Ripper op. cost/hour:	NA	\$0.00	\$0.00	NA	\$0.00	\$0.00
Operator cost/hour:	\$59.78	\$39.46	\$39.46	NA	\$58.07	\$38.35
Unit Subtotals:	\$561.63	\$329.51	\$274.28	NA	\$204.62	\$73.85
Number of Units:	6	6	1	0	1	1
Group Subtotals:	Work:	\$5,346.84	Support:	\$274.28	Maint:	\$278.47

Total work team cost/hour: \$5,899.59**MATERIAL QUANTITIES**Initial volume: 77,117

CCY

Swell factor: 1.215Loose volume: 93,697

LCY

Source of estimated volume: 47.8 ac @ 12"Source of estimated swell factor: Cat Handbook**HOURLY PRODUCTION****Scraper Bowl (volume) Basis:**

Material weight:	<u>1,600 lbs/LCY</u>	Struck Volume:	<u>15.70</u>	LCY
Material description:	<u>Top Soil</u>	Heaped Volume:	<u>22.00</u>	LCY
Rated Payload:	<u>52,800 pounds</u>	Average Volume:	<u>18.85</u>	LCY
Payload Capacity:	<u>33.00 LCY</u>	Adjusted Capacity:	<u>18.85</u>	LCY

Cycle Time:Scraper Loading Time: 0.90 MinutesManeuver and Spread Time: 0.60 MinutesJob Condition Correction:

Site Altitude: 4700 feet

	Scraper	Push Dozer	Source
Altitude Adj:	1.000	1.000	(CAT HB)
Job Efficiency:	0.830	0.830	(CAT HB)
Net Correction:	0.830	0.830	

Travel Time:Road Condition: Rutted dirt, little maintenance, no water, 2" tire penetration 5.0Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	500.00	0.00	5.00	5.00	2218	0.35

Haul Time: 0.35 minutesReturn Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	500.00	0.00	5.00	5.00	2814	0.32

Return Time: 0.32 minutesTotal Scraper team cycle time: 2.17 minutesAdjusted for job conditions: 865.19 LCY/HourSelected Number of Scrapers: 2 Scraper(s)Adjusted single scraper team (unit) hourly production: 865.19 LCY/HourAdjusted multiple scraper team (fleet) hourly production: 2,595.57 LCY/HourUnadjusted unit production/hour: 1,042.40 LCY/Hour

Optimal Number of Scrapers per push dozer: _____

JOB TIME AND COSTFleet size: 3 Team(s)Total job time: 36.10 HoursUnit cost: \$2.273 /LCYTotal job cost: \$212,969

BULLDOZER RIPPING WORK

Task description: Rip areas under stockpiles

Site: 31 Road Pit Permit Action: 2025 Permit/Job#: M1987178

PROJECT IDENTIFICATION

Task #: 03C State: Colorado Abbreviation: None
Date: 7/17/2025 County: Mesa Filename: M178-03c
User: ACY

Agency or organization name: DRMS

HOURLY EQUIPMENT COST

Basic Machine: Cat D8T - 8SU Horsepower: 310
Ripper Attachment: 3-Shank Ripper Shift Basis: 1 per day
Data Source: (CRG)

Cost Breakdown:

		Utilization %
Ownership Cost/Hour:	<u>\$179.60</u>	<u>NA</u>
Operating Cost/Hour:	<u>\$110.45</u>	<u>100</u>
Ripper Ownership Cost/Hour:	<u>\$15.28</u>	<u>NA</u>
Ripper Operating Cost/Hour:	<u>\$9.14</u>	<u>100</u>
Operator Cost/Hour:	<u>\$39.46</u>	<u>NA</u>
Total Unit Cost/Hour:	<u>\$353.93</u>	
Total Fleet Cost/Hour:	<u>\$707.86</u>	

MATERIAL QUANTITIES

Selected estimating method: Area

Alternate Methods:

Seismic: NA Bank Volume: NA BCY NA
Area: 10.00 acres Rip Depth (ft): 2.00 Volume: 32,267 BCY or CCY

Source of estimated quantity: Footprint of stockpile estimate

HOURLY PRODUCTION

Seismic:

Seismic Velocity: NA feet/second

Area:

Average Ripping Depth: 2.56 feet/pass
Average Ripping Width: 7.08 feet/pass
Average Ripping Length: 250.00 feet/pass
Average Dozer Speed: 88.00 feet/minute
Average Maneuver Time: 0.25 minutes/pass
Production per unit area: 0.789 acres/hour

Job Condition Correction Factors

Unadjusted Hourly Unit Production: 0.789 Acres/hr
Site Altitude: 4,700 feet
Altitude Adj: 1.00 (CAT HB)
Job Efficiency: 0.83 (1 shift/day)
Net Correction: 0.83 multiplier

Adjusted Hourly Unit Production: 0.65 Acres/hr
Adjusted Hourly Fleet Production: 1.31 Acres/hr

JOB TIME AND COST

Fleet size: 2 Grader(s) Total job time: 7.64 Hours

Unit cost: \$540.616 Per acre Total job cost: \$5,406

REVEGETATION WORKTask description: Reveg pit slopes w/ dry rangelandSite: 31 Road PitPermit Action: 2025Permit/Job#: M1987178PROJECT IDENTIFICATIONTask #: 02DState: ColoradoAbbreviation: NoneDate: 7/17/2025County: MesaFilename: M178-02dUser: ACYAgency or organization name: DRMSFERTILIZING**Materials**

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
			Total Fertilizer Materials Cost/Acre	\$0.00

Application

Description	Cost /Acre
	\$
Total Fertilizer Application Cost/Acre	\$0.00

TILLING

Description	Cost /Acre
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)	\$114.13
Total Tilling Cost/Acre	\$114.13

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Indian Ricegrass - Paloma	2.26	7.32	\$47.51
Crested Wheatgrass - Ephraim	1.26	5.79	\$7.08
Sand Dropseed	0.26	31.04	\$3.46
Galleta	3.00	10.95	\$170.29
Western Wheatgrass - Native	2.00	5.05	\$18.44
Totals Seed Mix	8.78	60.14	\$246.79

Application

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Description	Cost /Acre
Broadcast seeding [DMG]	\$279.08
Total Seed Application Cost/Acre	\$279.08

MULCHING and MISCELLANEOUS**Materials**

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Herbicide - 2,4D @ 1.0 pt/ac	1.00	ACRE	\$4.44	\$4.44
Total Mulch Materials Cost/Acre				\$4.44

Application

Description	Cost /Acre
Weed spray, truck, non-aquatic area, nox. [DMG]	\$249.08
Total Mulch Application Cost/Acre	\$249.08

NURSERY STOCK PLANTING

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
					\$
Totals Nursery Stock Cost / Acre					\$0.00

JOB TIME AND COST

No. of Acres: 4.11 Cost /Acre: \$893.52
 Estimated Failure Rate: 30% Cost /Acre*: \$893.52
 *Selected Replanting Work Items: TILLING,SEEDING,MULCHING

Initial Job Cost: **\$3,672.37**
 Reseeding Job Cost: **\$1,101.71**
 Total Job Cost: **\$4,774**
 Job Hours: **8.00**

EQUIPMENT MOBILIZATION/DEMOBILIZATIONTask description: **Initial Mobilization**Site: **31 Road Pit**Permit Action: **2025**Permit/Job#: **M1987178****PROJECT IDENTIFICATION**Task #: **04A**State: **Colorado**Abbreviation: **None**Date: **7/17/2025**County: **Mesa**Filename: **M178-04a**User: **ACY**Agency or organization name: **DRMS****EQUIPMENT TRANSPORT RIG COST**Shift basis: **1 per day**Cost Data Source: **CRG Data**Truck Tractor Description: **GENERIC ON-HIGHWAY TRUCK TRACTOR, 6X4, DIESEL POWERED,
400 HP (2ND HALF, 2006)**Truck Trailer Description: **GENERIC FOLDING GOOSENECK, DROP DECK EQUIPMENT
TRAILER (25T, 50T, AND 100T)****Cost Breakdown:**

Available Rig Capacities	0-25 Tons	26-50 Tons	51+ Tons
Ownership Cost/Hour:	\$21.47	\$38.32	\$48.96
Operating Cost/Hour:	\$31.47	\$60.11	\$65.86
Operator Cost/Hour:	\$22.52	\$22.52	\$22.52
Helper Cost/Hour:	\$0.00	\$22.25	\$22.25
Total Unit Cost/Hour:	\$75.46	\$143.20	\$159.59

NON ROADABLE EQUIPMENT:

Machine Description	Weight/ Unit (TONS)	Owner ship Cost/hr/ unit	Haul Rig Cost/hr/unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet	DOT Permit Cost/ fleet
Cat D8T - 8SU	47.71	\$179.60	\$143.20	6	\$1,936.80	\$859.20	\$250.00
Cat 627G w/push-pull	43.48	\$240.49	\$143.20	6	\$2,302.14	\$859.20	\$500.00
CAT 16M	28.73	\$78.02	\$143.20	1	\$221.22	\$143.20	\$250.00
Drill/Broadcast Seeder with Tractor	25.00	\$5.99	\$75.46	1	\$81.45	\$75.46	\$250.00

Subtotals: **\$4,541.61** **\$1,937.06** **\$1,250.00****ROADABLE EQUIPMENT:**

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
Light Duty Pickup, 4x4, 1 T. Crew	\$141.71	1	\$141.71	\$141.71
Light Duty Pickup, 4x4, 1 T. Crew	\$86.86	2	\$173.72	\$173.72

Subtotals: **\$315.43** **\$315.43**

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:	GRAND JUNCTION, CO	
Total one-way travel distance:	10.00	miles
Average Travel Speed:	40.00	mph
Total Non-Roadable Mob/Demob Cost *	\$14,822.56	
** two round trips with haul rig:		
Total Roadable Mob/Demob Cost **	\$157.72	
** one round trip, no haul rig:		

Transportation Cycle Time:

	Non- Roadable Equipment	Roadable Equipment
Haul Time (Hours):	0.25	0.25
Return Time (Hours):	0.25	0.25
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	1.50	0.50

JOB TIME AND COST

Total job time:	3.00	Hours
Total job cost:	\$14,980	

EQUIPMENT MOBILIZATION/DEMOBILIZATIONTask description: **Secondary Mobilization**Site: **31 Road Pit**Permit Action: 2025Permit/Job#: M1987178**PROJECT IDENTIFICATION**Task #: 04BState: ColoradoAbbreviation: NoneDate: 7/17/2025County: MesaFilename: M178-04bUser: ACYAgency or organization name: DRMS**EQUIPMENT TRANSPORT RIG COST**Shift basis: 1 per dayCost Data Source: CRG DataTruck Tractor Description: GENERIC ON-HIGHWAY TRUCK TRACTOR, 6X4, DIESEL POWERED,
400 HP (2ND HALF, 2006)Truck Trailer Description: GENERIC FOLDING GOOSENECK, DROP DECK EQUIPMENT
TRAILER (25T, 50T, AND 100T)**Cost Breakdown:**

Available Rig Capacities	0-25 Tons	26-50 Tons	51+ Tons
Ownership Cost/Hour:	\$21.47	\$38.32	\$48.96
Operating Cost/Hour:	\$31.47	\$60.11	\$65.86
Operator Cost/Hour:	\$22.52	\$22.52	\$22.52
Helper Cost/Hour:	\$0.00	\$22.25	\$22.25
Total Unit Cost/Hour:	\$75.46	\$143.20	\$159.59

NON ROADABLE EQUIPMENT:

Machine Description	Weight/ Unit (TONS)	Owner ship Cost/hr/ unit	Haul Rig Cost/hr/unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet	DOT Permit Cost/ fleet
Drill/Broadcast Seeder with Tractor	25.00	\$5.99	\$75.46	1	\$81.45	\$75.46	\$250.00

Subtotals: **\$81.45** **\$75.46** **\$250.00****ROADABLE EQUIPMENT:**

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
Light Duty Pickup, 4x4, 1 T. Crew	\$141.71	1	\$141.71	\$141.71
Light Duty Pickup, 4x4, 1 T. Crew	\$86.86	1	\$86.86	\$86.86

Subtotals: **\$228.57** **\$228.57**

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:	GRAND JUNCTION, CO	
Total one-way travel distance:	10.00	miles
Average Travel Speed:	40.00	mph
Total Non-Roadable Mob/Demob Cost *	\$741.36	
** two round trips with haul rig:		
Total Roadable Mob/Demob Cost **	\$114.29	
** one round trip, no haul rig:		

Transportation Cycle Time:

	Non- Roadable Equipment	Roadable Equipment
Haul Time (Hours):	0.25	0.25
Return Time (Hours):	0.25	0.25
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	1.50	0.50

JOB TIME AND COST

Total job time: 3.00 Hours

Total job cost: \$856