COST SUMMARY WORK

Task description: **Sitewide RCE**

Site: **Chambers Pit** Permit Action: August 2023 update Permit/Job#: M1980136

PROJECT IDENTIFICATION

Task #: 000 State: Colorado Abbreviation: None
Date: 8/24/2023 County: Eagle Filename: M136-000
User: LDS

Agency or organization name: DRMS

TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
001a	Backfill/grade to 3:1, East Access Road embankment	DOZER	1	88.71	$37,844
001b	Backfill/grade to 3:1, north and west of disc golf	DOZER	1	4.25	$1,812
001c	Backfill/grade to 3:1, West Access Road embankment	DOZER	1	3.07	$1,310
001d	Backfill/grade to 3:1, Light-use road embankment	DOZER	1	7.58	$3,235
001e	Backfill/grade to 3:1, south west of ball fields	DOZER	1	7.64	$3,260
002	Demolish existing structures	DEMOLISH	1	40.00	$34,628
003	Mobilize equipment	MOBILIZE	1	2.26	$5,392
004	Spread topsoil over 78.3 acres to 4-6" depth	SCRAPER1	2	40.63	$130,494
005	Disc harrow and drill seed 78.3 acres	REVEGE	1	78.30	$77,803
	SUBTOTALS:			**272.44**	**$295,778**

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance:	2.02	Total =	$5,975
Performance bond:	1.05	Total =	$3,106
Job superintendent:	248.52	Total =	$16,174
Profit:	10.00	Total =	$29,578
		TOTAL O & P =	$54,832
		CONTRACT AMOUNT (direct + O & P) =	$350,610

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs):	$500	Total =	$500
Engineering work and/or contract/bid preparation:	6.59	Total =	$23,105
Reclamation management and/or administration:	5.00		$17,530
CONTINGENCY:	0.00	Total =	$0
		TOTAL INDIRECT COST =	$95,968
		TOTAL BOND AMOUNT (direct + indirect) =	**$391,746**

BULLDOZER WORK

Task description: **Backfill/grade to 3:1, East Access Road embankment**

Site: **Chambers Pit** Permit Action: August 2023 update Permit/Job#: M1980136

PROJECT IDENTIFICATION

Task #:	001A	State:	Colorado	Abbreviation:	None
Date:	8/24/2023	County:	Eagle	Filename:	M136-001a
User:	LDS				

Agency or organization name: DRMS

HOURLY EQUIPMENT COST

Basic Machine:	Cat D8T - 8SU
Horsepower:	310
Blade Type:	Semi-Universal
Attachment:	NA
Shift Basis:	1 per day
Data Source:	(CRG)

Cost Breakdown:

		Utilization %
Ownership Cost/Hour:	$241.38	NA
Operating Cost/Hour:	$143.92	100
Ripper own. Cost/Hour:	$0.00	NA
Ripper op. Cost/Hour:	$0.00	0
Operator Cost/Hour:	$41.30	NA

Total unit Cost/Hour: $426.60
Total Fleet Cost/Hour: **$426.60**

MATERIAL QUANTITIES

Initial Volume:	16,250
Swell factor:	1.125
Loose volume:	**18,281** LCY

Source of estimated volume: Division of Reclamation, Mining & Safety
Source of estimated swell factor: Cat Handbook

HOURLY PRODUCTION

Average push distance: 50 feet
Unadjusted hourly production: 1,400.0 LCY/hr

Materials consistency description: Partly consolidated stockpile 1.1

Average push gradient: 30 %
Average site altitude: 6,500 feet

Material weight: 2,550 lbs/LCY

Weight description: Earth - Dry packed

Job Condition Correction Factor		Source
Operator Skill:	0.750	(AVG.)
Material consistency:	1.100	(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:	0.298	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.902	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.1472

Adjusted unit production: 206.08 LCY/hr
Adjusted fleet production: **206.08** LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)
Unit cost: $2.070/LCY

Total job time: **88.71** Hours
Total job cost: **$37,844**

BULLDOZER WORK

Task description: **Backfill/grade to 3:1, north and west of disc golf**

Site: **Chambers Pit** Permit Action: August 2023 update Permit/Job#: M1980136

PROJECT IDENTIFICATION

Task #:	001B	State:	Colorado	Abbreviation:	None
Date:	8/24/2023	County:	Eagle	Filename:	M136-001b
User:	LDS				

Agency or organization name: DRMS

HOURLY EQUIPMENT COST

Basic Machine:	Cat D8T - 8SU
Horsepower:	310
Blade Type:	Semi-Universal
Attachment:	NA
Shift Basis:	1 per day
Data Source:	(CRG)

Cost Breakdown:

		Utilization %
Ownership Cost/Hour:	$241.38	NA
Operating Cost/Hour:	$143.92	100
Ripper own. Cost/Hour:	$0.00	NA
Ripper op. Cost/Hour:	$0.00	0
Operator Cost/Hour:	$41.30	NA

Total unit Cost/Hour: $426.60
Total Fleet Cost/Hour: **$426.60**

MATERIAL QUANTITIES

Initial Volume:	778
Swell factor:	1.125
Loose volume:	**875** LCY

Source of estimated volume: Division of Reclamation, Mining & Safety
Source of estimated swell factor: Cat Handbook

HOURLY PRODUCTION

Average push distance: 50 feet
Unadjusted hourly production: 1,400.0 LCY/hr

Materials consistency description: Partly consolidated stockpile 1.1

Average push gradient: 30 %
Average site altitude: 6,500 feet

Material weight: 2,550 lbs/LCY

Weight description: Earth - Dry packed

Job Condition Correction Factor		Source
Operator Skill:	0.750	(AVG.)
Material consistency:	1.100	(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:	0.298	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.902	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.1472

Adjusted unit production: 206.08 LCY/hr
Adjusted fleet production: **206.08** LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)
Unit cost: $2.070/LCY

Total job time: **4.25** Hours
Total job cost: **$1,812**

BULLDOZER WORK

Task description: **Backfill/grade to 3:1, West Access Road embankment**

Site: **Chambers Pit** Permit Action: August 2023 update Permit/Job#: M1980136

PROJECT IDENTIFICATION

Task #: 001C State: Colorado Abbreviation: None
Date: 8/24/2023 County: Eagle Filename: M136-001c
User: LDS

Agency or organization name: DRMS

HOURLY EQUIPMENT COST

Basic Machine: Cat D8T - 8SU
Horsepower: 310
Blade Type: Semi-Universal
Attachment: NA
Shift Basis: 1 per day
Data Source: (CRG)

Cost Breakdown:

		Utilization %
Ownership Cost/Hour:	$241.38	NA
Operating Cost/Hour:	$143.92	100
Ripper own. Cost/Hour:	$0.00	NA
Ripper op. Cost/Hour:	$0.00	0
Operator Cost/Hour:	$41.30	NA

Total unit Cost/Hour: $426.60
Total Fleet Cost/Hour: **$426.60**

MATERIAL QUANTITIES

Initial Volume: 563
Swell factor: 1.125
Loose volume: **633** LCY

Source of estimated volume: Division of Reclamation, Mining & Safety
Source of estimated swell factor: Cat Handbook

HOURLY PRODUCTION

Average push distance: 50 feet
Unadjusted hourly production: 1,400.0 LCY/hr

Materials consistency description: Partly consolidated stockpile 1.1

Average push gradient: 30 %
Average site altitude: 6,500 feet

Material weight: 2,550 lbs/LCY

Weight description: Earth - Dry packed

Job Condition Correction Factor		Source
Operator Skill:	0.750	(AVG.)
Material consistency:	1.100	(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:	0.298	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.902	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.1472

Adjusted unit production: 206.08 LCY/hr
Adjusted fleet production: **206.08** LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)
Unit cost: $2.070/LCY

Total job time: **3.07** Hours
Total job cost: **$1,310**

BULLDOZER WORK

Task description: **Backfill/grade to 3:1, Light-use road embankment**

Site: **Chambers Pit** Permit Action: August 2023 update Permit/Job#: M1980136

PROJECT IDENTIFICATION

Task #: 001D State: Colorado Abbreviation: None
Date: 8/24/2023 County: Eagle Filename: M136-001d
User: LDS

Agency or organization name: DRMS

HOURLY EQUIPMENT COST

Basic Machine: Cat D8T - 8SU
Horsepower: 310
Blade Type: Semi-Universal
Attachment: NA
Shift Basis: 1 per day
Data Source: (CRG)

Cost Breakdown:

		Utilization %
Ownership Cost/Hour:	$241.38	NA
Operating Cost/Hour:	$143.92	100
Ripper own. Cost/Hour:	$0.00	NA
Ripper op. Cost/Hour:	$0.00	0
Operator Cost/Hour:	$41.30	NA

Total unit Cost/Hour: $426.60
Total Fleet Cost/Hour: **$426.60**

MATERIAL QUANTITIES

Initial Volume: 1,389
Swell factor: 1.125
Loose volume: **1,563** LCY

Source of estimated volume: Division of Reclamation, Mining & Safety
Source of estimated swell factor: Cat Handbook

HOURLY PRODUCTION

Average push distance: 50 feet
Unadjusted hourly production: 1,400.0 LCY/hr

Materials consistency description: Partly consolidated stockpile 1.1

Average push gradient: 30 %
Average site altitude: 6,500 feet

Material weight: 2,550 lbs/LCY

Weight description: Earth - Dry packed

Job Condition Correction Factor		Source
Operator Skill:	0.750	(AVG.)
Material consistency:	1.100	(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:	0.298	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.902	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.1472

Adjusted unit production: 206.08 LCY/hr
Adjusted fleet production: **206.08** LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)
Unit cost: $2.070/LCY

Total job time: **7.58** Hours
Total job cost: **$3,235**

BULLDOZER WORK

Task description: **Backfill/grade to 3:1, south west of ball fields**

Site: **Chambers Pit** Permit Action: August 2023 update Permit/Job#: M1980136

PROJECT IDENTIFICATION

Task #:	001E	State:	Colorado	Abbreviation:	None
Date:	8/24/2023	County:	Eagle	Filename:	M136-001e
User:	LDS				

Agency or organization name: DRMS

HOURLY EQUIPMENT COST

Basic Machine:	Cat D8T - 8SU
Horsepower:	310
Blade Type:	Semi-Universal
Attachment:	NA
Shift Basis:	1 per day
Data Source:	(CRG)

Cost Breakdown:

		Utilization %
Ownership Cost/Hour:	$241.38	NA
Operating Cost/Hour:	$143.92	100
Ripper own. Cost/Hour:	$0.00	NA
Ripper op. Cost/Hour:	$0.00	0
Operator Cost/Hour:	$41.30	NA

Total unit Cost/Hour: $426.60
Total Fleet Cost/Hour: **$426.60**

MATERIAL QUANTITIES

Initial Volume:	1,400
Swell factor:	1.125
Loose volume:	**1,575** LCY

Source of estimated volume: Division of Reclamation, Mining & Safety
Source of estimated swell factor: Cat Handbook

HOURLY PRODUCTION

Average push distance: 50 feet
Unadjusted hourly production: 1,400.0 LCY/hr

Materials consistency description: Partly consolidated stockpile 1.1

Average push gradient: 30 %
Average site altitude: 6,500 feet

Material weight: 2,550 lbs/LCY

Weight description: Earth - Dry packed

Job Condition Correction Factor		Source
Operator Skill:	0.750	(AVG.)
Material consistency:	1.100	(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:	0.298	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.902	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.1472

Adjusted unit production: 206.08 LCY/hr
Adjusted fleet production: **206.08** LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)
Unit cost: $2.070/LCY

Total job time: **7.64** Hours
Total job cost: **$3,260**

DEMOLITION WORK

Task description: **Demolish existing structures**

Site: **Chambers Pit** Permit Action: August 2023 update Permit/Job#: M1980136

PROJECT IDENTIFICATION

Task #: 002 State: Colorado Abbreviation: None
Date: 8/24/2023 County: Eagle Filename: M136-002
User: LDS

Agency or organization name: DRMS

UNIT COSTS **Location adjustment: 86.90 %**

Structure or Item Description	Dimensions	Demolition Menu Selection	Quantity	Unit	Unit Cost	Total Cost
Demolish truck scale	70'x10'	Bridge Demolition - Steel	700.00	SF	$11.90	$8,330.00
Demolish truck scale building	10'x10'	Bldg. (SN) demo./off-site disposal in approved landfill - Max. 5 mile haul	800.00	CF	$0.33	$263.60
Demolish truck scale slab	200'x10'	Demo. and on-site disposal in excavated pit, 12 in. thick - Max. 200 ft. push	2,000.00	SF	$2.60	$5,209.00
Demolish facilities slab	200'x100'	Demo. and on-site disposal in excavated pit, 6 in. thick - Max. 200 ft. push	20,000.00	SF	$1.30	$26,046.00

Job Hours: **40.00** **Subtotal (unadjusted)**: **$39,848.60** **Total Cost (adjusted for location)**: **$34,628.43**

EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task description: **Mobilize equipment**

Site: **Chambers Pit** Permit Action: August 2023 update Permit/Job#: M1980136

PROJECT IDENTIFICATION

Task #: 003 State: Colorado Abbreviation: None
Date: 8/24/2023 County: Eagle Filename: M136-003
User: LDS

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:	$20.26	$36.04	$47.05
Operating Cost/Hour:	$39.51	$76.08	$82.85
Operator Cost/Hour:	$22.52	$22.52	$22.52
Helper Cost/Hour:	$0.00	$23.53	$23.53
Total Unit Cost/Hour:	$82.29	$158.17	$175.95

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 D10T - 10SU	84.53	$178.69	$175.95	1	$354.64	$175.95	$250.00
Cat 631G	52.50	$341.67	$175.95	2	$1,035.24	$351.90	$500.00
CAT 12M	16.01	$74.98	$82.29	1	$157.27	$82.29	$250.00
Subtotals:					**$1,547.15**	**$610.14**	**$1,000.00**

ROADABLE EQUIPMENT:

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
Drill/Broadcast Seeder with Tractor	$42.49	1	$42.49	$42.49
Water Tanker, 2,500 Gal.	$34.27	1	$34.27	$34.27
Subtotals:			**$76.76**	**$76.76**

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:	EAGLE	
Total one-way travel distance:	2.00	miles
Average Travel Speed:	30.00	mph

Total Non-Roadable Mob/Demob Cost * '* two round trips with haul rig:	$5,381.94
Total Roadable Mob/Demob Cost ** ** one round trip, no haul rig:	$10.23

Transportation Cycle Time:

	Non-Roadable Equipment	Roadable Equipment
Haul Time (Hours):	0.07	0.07
Return Time (Hours):	0.07	0.07
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	1.13	0.13

JOB TIME AND COST

Total job time:	**2.27**	Hours
Total job cost:	**$5,392**	

SCRAPER TEAM WORK

Task description: **Spread topsoil over 78.3 acres to 4-6" depth**

Site: **Chambers Pit** Permit Action: August 2023 update Permit/Job#: M1980136

PROJECT IDENTIFICATION

Task #: 004 State: Colorado Abbreviation: None
Date: 8/25/2023 County: Eagle Filename: M136-004
User: LDS

Agency or organization name: DRMS

HOURLY EQUIPMENT

COSTShift basis: 1 per day

Equipment Description	
-Scraper:	Cat 631G
-Dozer:	Cat D8T - 8SU
Support Equipment -Load Area:	NA
-Dump Area:	NA
Road Maintenance –Motor Grader:	CAT 12M
-Water Truck:	Water Tanker, 2,500 Gal.

Cost Breakdown:

	Scraper Work Team		Support Equipment		Maintenance Equipment	
	Scraper	Dozer	Load Area	Dump Area	Motor Grader	Water Truck
%Utilization-machine:	100	100	NA	NA	50	50
Ownership cost/hour:	$341.67	$241.38	NA	NA	$74.98	$11.35
Operating cost/hour:	$285.26	$143.92	NA	NA	$27.63	$11.46
%Utilization-ripper:	NA	NA	NA	NA	NA	NA
Ripper own. cost/hour:	NA	$0.00	NA	NA	$0.00	$0.00
Ripper op. cost/hour:	NA	$0.00	NA	NA	$0.00	$0.00
Operator cost/hour:	$30.90	$41.30	NA	NA	$28.56	$0.00
Unit Subtotals:	$657.83	$426.60	NA	NA	$131.17	$22.81
Number of Units:	4	1	0	0	1	1
Group Subtotals:	Work:	$3,057.92	Support:	$0.00	Maint:	$153.98

Total work team cost/hour: **$3,211.90**

MATERIAL QUANTITIES

Initial volume: 52,635 CCY Swell factor: 1.215
Loose volume: **63,952** LCY

Source of estimated volume: Division of Reclamation, Mining & Safety
Source of estimated swell factor: Cat Handbook

HOURLY PRODUCTION

Material weight: 1,600 lbs/LCY
Material description: Top Soil
Rated Payload: 81,600 pounds
Payload Capacity: 51.00 LCY

Scraper Bowl (volume) Basis:

Struck Volume: 24.00 LCY
Heaped Volume: 34.00 LCY
Average Volume: 29.00 LCY
Adjusted Capacity: **29.00** LCY

Cycle Time:

Scraper Loading Time: 0.80 Minutes
Maneuver and Spread Time: 0.70 Minutes

Job Condition Correction: Site Altitude: 6500 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: Firm, smooth, rolling, dirt/lt. surfaced, watered, maintained 3.0

Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	500.00	15.00	3.00	18.00	285	1.75

Haul Time: **1.75** minutes

Return Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	500.00	-15.00	3.00	-12.00	1601	0.42

Return Time: **0.42** minutes

Total Scraper team cycle time: **3.67** minutes
Adjusted for job conditions: 393.51 LCY/Hour
Selected Number of Scrapers: 2 Scraper(s)
Adjusted single scraper team (unit) hourly production: 787.03 LCY/Hour
Adjusted multiple scraper team (fleet) hourly production: **1,574.06** LCY/Hour

Unadjusted unit production/hour: 474.11 LCY/Hour
Optimal Number of Scrapers per push dozer:

JOB TIME AND COST

Fleet size: 2 Team(s) Total job time: **40.63** Hours

Unit cost: $2.041 /LCY Total job cost: **$130,494**

REVEGETATION WORK

Task description: **Disc harrow and drill seed 78.3 acres**

Site: **Chambers Pit** Permit Action: August 2023 update Permit/Job#: M1980136

PROJECT IDENTIFICATION

Task #: 005 State: Colorado Abbreviation: None
Date: 8/24/2023 County: Eagle Filename: M136-005
User: LDS

Agency or organization name: DRMS

FERTILIZING

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)	$112.82
Weed control spraying (MEANS 31 31 16.13 3100)	$338.80
Total Tilling Cost/Acre	**$451.62**

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Crested Wheatgrass - Fairway	1.50	6.89	$6.04
Bottlebrush Squirreltail	0.50	2.20	$8.11
Russian Wildrye - Vinal	2.50	10.04	$15.45
Pubescent Wheatgrass - Luna	4.50	9.30	$15.30
Rabbitbrush, Rubber	0.50	7.45	$32.15
Western Wheatgrass - Barton	4.00	10.10	$28.00
Saltbush, Four Wing	0.50	0.69	$6.25
		46.67	**$111.30**

Totals Seed Mix	14.00		

Application

Description	**Cost /Acre**
Drill Seeding (DRMS Survey Cost)	$232.00
Total Seed Application Cost/Acre	**$232.00**

MULCHING and MISCELLANEOUS

Materials

Description	**Units / Acre**	**Unit**	**Cost / Unit**	**Cost /Acre**
			$	$
Total Mulch Materials Cost/Acre				**$0.00**

Application

Description	**Cost /Acre**
	$
Total Mulch Application Cost/Acre	**$0.00**

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: 78.3
Estimated Failure Rate: 25%
*Selected Replanting Work Items: TILLING,SEEDING

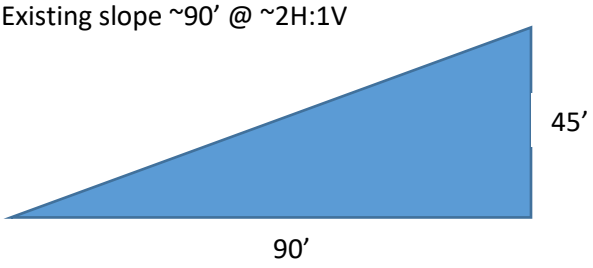
Cost /Acre: $794.92
Cost /Acre*: $794.92

Initial Job Cost: **$62,242.24**
Reseeding Job Cost: **$15,560.56**
Total Job Cost: **$77,803**
Job Hours: **78.30**

August 2023 RCE update – notes

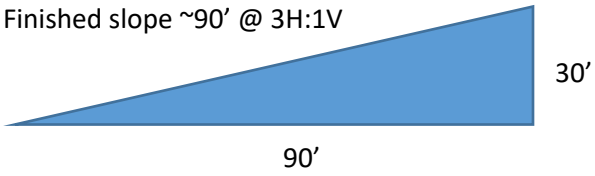
Task 001a - Backfill/grade to 3:1, East Access Road embankment

Existing slope ~90’ @ ~2H:1V



Cross-sectional area = 2025 ft^2

Finished slope ~90’ @ 3H:1V



Cross-sectional area = 1350 ft^2

2025 – 1350 = 675 ft^2

Length of slope ~650’

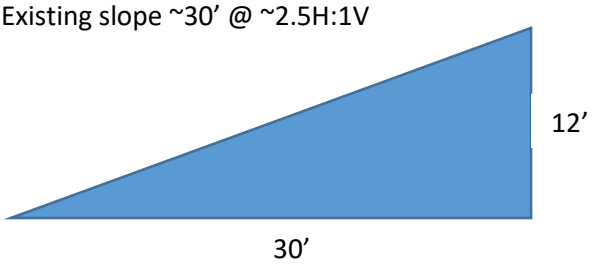
Volume to be regraded = 675 x 650

= 438,750 ft^3

= 16,250 yd^3

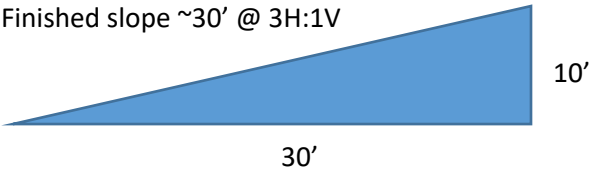
Task 001b - Backfill/grade to 3:1, north and west of disc golf

Existing slope ~30’ @ ~2.5H:1V



Cross-sectional area = 180 ft^2

Finished slope ~30’ @ 3H:1V



Cross-sectional area = 150 ft^2

180 – 150 = 30 ft^2

Length of slope ~700’

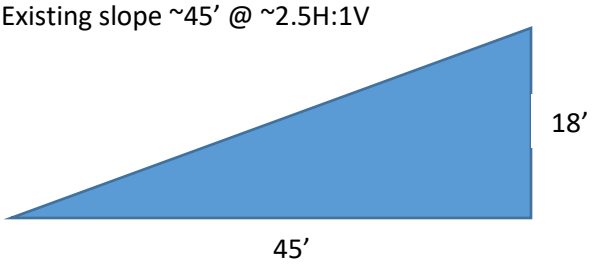
Volume to be regraded = 700 x 30

= 21,000 ft^3

= 778 yd^3

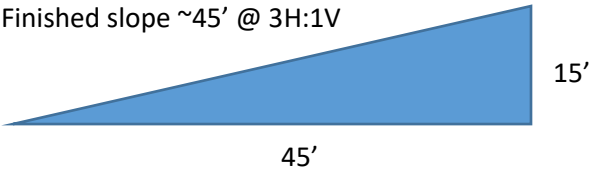
Task 001c - Backfill/grade to 3:1, West Access Road embankment

Existing slope ~45’ @ ~2.5H:1V



Cross-sectional area = 405 ft^2

Finished slope ~45’ @ 3H:1V



Cross-sectional area = 337.5 ft^2

405 – 337.5 = 67.5 ft^2

Length of slope ~225’

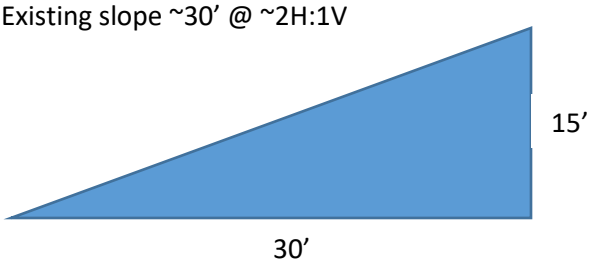
Volume to be regraded = 225 x 67.5

= 15,187.5 ft^3

= 562.5 yd^3

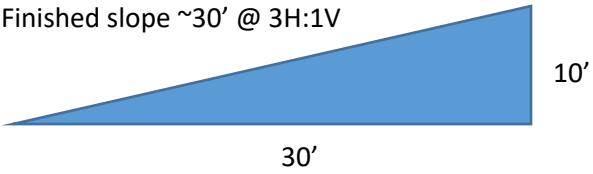
Task 001d - Backfill/grade to 3:1, Light-use road embankment

Existing slope ~30’ @ ~2H:1V



Cross-sectional area = 225 ft^2

Finished slope ~30’ @ 3H:1V



Cross-sectional area = 150 ft^2

225 – 150 = 75 ft^2

Length of slope ~500’

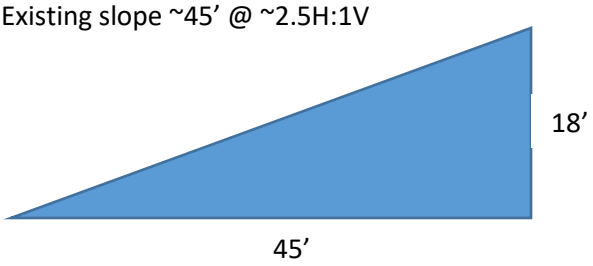
Volume to be regraded = 75 x 500

= 37,500 ft^3

= 1389 yd^3

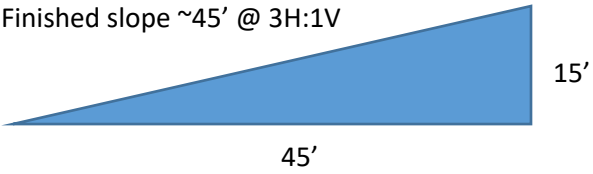
Task 001e - Backfill/grade to 3:1, south west of ball fields

Existing slope ~45’ @ ~2.5H:1V



Cross-sectional area = 405 ft^2

Finished slope ~45’ @ 3H:1V



Cross-sectional area = 337.5 ft^2

405 – 337.5 = 67.5 ft^2

Length of slope ~560’

Volume to be regraded = 560 x 67.5

= 37,800 ft^3

= 1,400 yd^3