#### **COST SUMMARY WORK**

#2 Verl	oeff Pit	Pe	rmit Action: 2020 Bond	Permit/Jo	b#: <u>M2008013</u>
ROJEC	Γ IDENTIFIC	<u>CATION</u>			
Task #:	000	State:	Colorado	Abbreviation:	None
Date:	3/17/2020	County:	Bent	Filename:	M013-000
	DC1			<del></del>	

#### TASK LIST (DIRECT COSTS)

Task		Form	Fleet	Task	a .
Lasix	Description	Used	Size	Hours	Cost
001	Backfill slopes to 3h:1V and level remaining stockpiles.	DOZER	1	3.45	\$1,215
002	Apply 4 inches of Topsoil over 9 acres	DOZER	] 1	11.96	\$4,210
003	vegetation over 4 acres	REVEGE	1	6.00	\$8,471
004	Mobilization of Vehicles	MOBILIZE	1	3.20	\$2,368
		24.61	\$16,264		

#### **INDIRECT COSTS**

#### OVERHEAD AND PROFIT:

Liability insurance:	2.02	Total =	\$329
Performance bond:	1.05	Total =	\$171
Job superintendent:	13.31	Total =	\$926
Profit:	10.00	Total =	\$1,626
		TOTAL O & $P -$	\$3.051

 $TOTAL O \& P = \frac{\$3,051}{CONTRACT AMOUNT (direct + O \& P)} = \frac{\$19,315}{}$ 

#### LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs):	\$500	Total =	\$500
Engineering work and/or contract/bid preparation:	4.25	Total =	\$821
Reclamation management and/or administration:	5.00		\$966

CONTINGENCY: 0.00 Total = \$0

TOTAL INDIRECT COST = \$5,338

TOTAL BOND AMOUNT (direct + indirect) = \$21,602

# **BULLDOZER WORK**

Task description:	Back	xfill slopes t	o 3h:1V and	level remaining stock	piles		
e: #2 Verhoeff Pit		Pe	rmit Action:	2020 Bond	Permit/Jo	b#:	M2008013
PROJECT IDENT	IFICATIO	<u>)N</u>					
Task #: 001		State:	Colorado		Abbreviation:	No	one
Date: 3/17/20	)20	County:	Bent		Filename:		013-001
User: DC1		,					
Agency or or	ganization	name: DF	RMS				
HOURLY EQUIPM	MENT CO	<u>ST</u>					
	Cat D9T - 9	9SU		_			
<u> </u>	405			_			
	Semi-Unive			=			
	3-shank rip	per		=			
	1 per day			=			
Data Source:	(CRG)			=			
Cost Breakdown:			I	Utilization %			
Ownership Cost/Hou	ırı		\$156.88	NA			
Operating Cost/Hot			\$127.87	100			
Ripper ow	'n.		\$15.59	NA			
Cost/Hot			·				
Ripper op. Cost/Hou			\$10.23	100			
Operator Cost/Hou	ır:		\$41.30	NA			
Swell factor: 1	,232 .000		_				
Loose volume: 1	,232 LCY						
Source of estimated s Source of estimated s factor:		Reclaim Cat Hand		ockpiles to a slopes of	3H:1V		
HOURLY PRODU	<u>CTION</u>						
Average push distance	e:	150 feet					
Unadjusted hourly production:		910.5 LCY	/hr				
Materials consistency description:	À	Compa	cted fill or er	mbankment 0.9			
Average push gradient:	-5 %						
Average site altitude	3,880	feet					
Material weight:	3,300	lbs/LCY					
Weight description:	Deco	mposed rock	- 75% Rock,	, 25% Earth			

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:	0.900	(SSD-FC)
Push gradient:	1.115	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.697	(CAT HB)
Blade type:	1.000	(PAT)
		<u>'</u>

Net correction: 0.3919

Adjusted unit production:

Adjusted fleet production:

356.82 LCY/hr

356.82 LCY/hr

### **JOB TIME AND COST**

Fleet size: 1 Dozer(s)
Unit cost: \$0.986/LCY

Total job time: 3.45 Hours
Total job cost: \$1,215

# **BULLDOZER WORK**

Task description:	App	ly 4 inches o	of Topsoil ov	er 9 acres		
e: #2 Verhoeff Pit		Pe	rmit Action:	2020 Bond	Permit/Jo	b#: <u>M2008013</u>
PROJECT IDENT	TIFICATION	<u>ON</u>				
Task #: 002		State:	Colorado		Abbreviation:	None
Date: 3/17/2	.020	County:	Bent		Filename:	M013-002
User: DC1						
Agency or o	organization	name: DF	RMS			
HOURLY EQUIP	MENT CO	<u>OST</u>				
Basic Machine:	Cat D9T -	9SU		_		
Horsepower:	405			-		
Blade Type:	Semi-Univ			-		
Attachment:	3-shank rip	per		-		
Shift Basis:	1 per day			=		
Data Source:	(CRG)			-		
Cost Breakdown:			İ	TT/'1' /		
O			¢156.00	<u>Utilization %</u>		
Ownership Cost/Ho			\$156.88 \$127.87	NA 100		
Operating Cost/Ho Ripper or				100		
Cost/Ho	our:		\$15.59	NA		
Ripper op. Cost/Ho	our:		\$10.23	100		
Operator Cost/Ho	our:		\$41.30	NA		
	4,840 1.000					
Loose volume:	<b>4,840</b> LCY		<del></del>			
Source of estimated	volume:	4 Inches	of Topsoil ov	er 9 acres of disturbed	land	
Source of estimated factor:		Cat Hand		er y acres of disturbed	Tand	
HOURLY PRODU	<u>JCTION</u>					
Average push distar	nce:	150 feet				
Unadjusted hourly production:	-	910.5 LCY	/hr			
Materials consistent description:	су	Consol	idated stockp	ile 1.0		
Average push gradient:	0 %					
Average site altitude	e: 3,980	feet				
Material weight:	2,900	lbs/LCY				
Weight description:	Deco	mposed rock	- 50% Rock,	, 50% Earth		

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:	0.900	(SSD-FC)
Push gradient:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.793	(CAT HB)
Blade type:	1.000	(PAT)
		•

Net correction: 0.4443

Adjusted unit production:

Adjusted fleet production:

404.54 LCY/hr

404.54 LCY/hr

### **JOB TIME AND COST**

Fleet size: 1 Dozer(s)
Unit cost: \$0.870/LCY

Total job time: 11.96 Hours
Total job cost: \$4,210

# **REVEGETATION WORK**

1 8	ask descrip	otion:	vegetation over	4 acres				
: _	#2 Verho	eff Pit	Pe	rmit Action:	2020	Bond	Permit/Joh	o#: M2008013
PR	OJECT	<u>IDENTIFI</u>	CATION					
	Task #: Date:	003 3/17/2020	State: County:	Colorado Bent			Abbreviation: Filename:	None M013-003
		DC1						
	Age	ency or organi	zation name: DI	RMS				
E	RTILIZ	ING						
<b>Л</b> а	terials							
	Descripti	on		Un Ac	its / ere	Unit	Cost / Unit	Cost /Acre
							\$	\$
							Total Fertilizer Materials	

Cost/Acre

\$0.00

Application

Description	Cost /Acre
	\$
Total Fartilizar Applicati	ion Cost/Aoro
Total Fertilizer Applicati	on Cost/Acre \$0.00

# **TILLING**

Description	Cost /Acre
	\$
Total Tilling Cost/Acre	\$0.00

### **SEEDING**

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Sand Dropseed	0.20	23.88	\$1.95
Inland Bluegrass - Native	0.60	13.50	\$3.57
Sideoats Grama - Vaughn	2.30	7.55	\$19.26
Western Wheatgrass - Arriba	3.20	8.08	\$20.80
Totals Seed Mix	6.30	53.01	\$45.58

Application

Description		Cost /Acre
Drill Seeding (DRMS Survey Cost)		\$232.00
	<b>Total Seed Application Cost/Acre</b>	\$232.00

# **MULCHING and MISCELLANEOUS**

#### Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Straw, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$301.00	\$602.00
Total Mulch Materials Cost/Acre				\$602.00

Application

Description		Cost /Acre
Crimping, with tractor {DMG survey data}		\$70.17
	<b>Total Mulch Application Cost/Acre</b>	\$70.17

# **NURSERY STOCK PLANTING**

Common Name No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
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	Totals	Nurserv Stoc	k Cost / Acre	\$0.00
		1	1	
				\$

# JOB TIME AND COST

No. of Acres:	8.2	Cost /Acre:	\$949.75
Estimated Failure Rate:	30%	Cost /Acre*:	\$277.58
*Selected Replanting Work Items:	SEEDING		

Initial Job Cost: \$7,787.95

Reseeding Job Cost: \$682.85

Total Job Cost: \$8,471

6.00

### **EQUIPMENT MOBILIZATION/DEMOBILIZATION**

Task description: Mo	bilization of Vel	nicles		
te: #2 Verhoeff Pit	Permi	Action:2020 B	ond Permit/.	Job#: <u>M2008013</u>
PROJECT IDENTIFICATI	<u>ION</u>			
Task #: 004	State: C	olorado	Abbreviation	: None
Date: 3/17/2020	County: B	ent	Filename	: M013-004
User: DC1				
Agency or organization	n name: DRMS	S		
Truck Tractor Desc		ERIC ON-HIGHW	Shift basis: Cost Data Source: AY TRUCK TRACTOR, 6X4 400 HP (2ND HALF, 2006)	1 per day CRG Data  4, DIESEL POWERED,
Truck Trailer Desc	eription:		NG GOOSENECK, DROP DE	•
		TR	AILER (25T, 50T, AND 100)	<u>(i)</u>
Cost Breakdown:				
<b>Available Rig Capacities</b>	0-25 Tons	26-50 Tons	51+ Tons	
Ownership Cost/Hour:	\$17.20	\$29.63	\$38.69	
Operating Cost/Hour:	\$26.56	\$47.02	\$55.69	
Operator Cost/Hour:	\$23.63	\$23.63	\$23.63	

# **NON ROADABLE EQUIPMENT:**

Total Unit Cost/Hour:

Helper Cost/Hour:

\$0.00

\$67.39

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 D9T - 9SU	66.13	\$172.47	\$141.54	1	\$314.01	\$141.54	\$250.00
Drill/Broadcast Seeder with Tractor	25.00	\$6.72	\$67.39	2	\$148.22	\$134.78	\$250.00

\$23.53

\$123.81

\$23.53

\$141.54

Subtotals: \$462.23 \$276.32 \$500.00

# **ROADABLE EQUIPMENT:**

Machine Description	Total Cost/hr/	Fleet Size	Haul Trip	Return Trip
_	unit		Cost/hr/ fleet	Cost/hr/ fleet

Subtotals: **\$0.00 \$0.00** 

### **EQUIPMENT HAUL DISTANCE and Time**

Nearest Major City or Town within project area region:

Total one-way travel distance:

Average Travel Speed:

LAS ANIMAS

miles

50.00

mph

#### **Transportation Cycle Time:**

	Non-	
	Roadable	Roadable
	Equipment	Equipment
Haul Time (Hours):	0.30	0.30
Return Time (Hours):	0.30	0.30
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	1.60	0.60

#### **JOB TIME AND COST**

Total job time: _	3.20	Hours
Total job cost:	\$2,368	