COST SUMMARY WORK

. OSIU JUIII	t Venture	Pe	rmit Action:	SO3 Bond Estimate	Permit/Jo	b#: <u>M1992069</u>
<u>PROJECT I</u>	<u>IDENTIFIC</u>	<u>CATION</u>				
Task #: _ Date: _ User:	301 2/17/2023 PSH	State: County:	Colorado Weld		Abbreviation: Filename:	None M069-301

TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
302	Import Backfill Material	SITEMAINT	1	0.00	\$7,066,312
		ENANCE			
303	Site Revegetation	REVEGE	1	80.00	\$214,418
304	Mob/Demob	MOBILIZE	1	3.33	\$2,744
305	Compact and place imported fill	COMPACT	1	3,557.95	\$1,383,726
306	Backfill Stockpile Rough Grading	DOZER	1	2,941.06	\$772,074
		SUBTO	TALS:	6582.34	\$9,439,274

INDIRECT COSTS

OVERHEAD AND PROFIT:

 Liability insurance:
 2.02
 Total =
 \$190,673

 Performance bond:
 1.05
 Total =
 \$99,112

 Job superintendent:
 3,291.17
 Total =
 \$247,266

 Profit:
 10.00
 Total =
 \$943,927

fit: 10.00 Total = $\begin{array}{c} 943,927 \\ \text{TOTAL O \& P} = \\ \end{array}$

CONTRACT AMOUNT (direct + O & P) = $\frac{$10,920,253}{$10,920,253}$

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs): \$500 Total = \$500
Engineering work and/or contract/bid preparation: Reclamation management and/or administration: 0.00 Total = \$0

\$0

\$0

CONTINGENCY: 0.00 Total = \$0

TOTAL INDIRECT COST = \$1,481,479

TOTAL BOND AMOUNT (direct + indirect) = \$10,920,753

SITE MAINTENANCE

	Task description:	Import Back	kfill Material			
Site:	83rd Joint Venture		Permit Action:	SO3 Bond Estimate	Permit/J	Job#: M1992069
PROJE	CT IDENTIFICATIO	<u>N</u>				
Task	#: 302	State:	Colorado	Abl	breviation:	None
Dat	te: 2/17/2023	County:	Weld		Filename:	M069-302
Use	er: PSH	-			_	
	Agency or organiza	ation name	DRMS			

UNIT COSTS

Maintenance Item	Hours per Year	Menu Selection	Quantity	Unit	Unit Cost	Total Cost
Import Backfill	2890.00	USER PROVIDED	1,766,578.00	1	\$4.00	\$7,066,312.00
Material		ITEM				

Job Hours: 0.00 Total Cost: \$7,066,312.00

REVEGETATION WORK

T	ask description:	Site Revegetation				
ite:	83rd Joint Venture	Permit Act	tion: SO	Bond Estimate	Permit/Job	o#: M1992069
PI	ROJECT IDENTIF	<u>FICATION</u>				
	Task #: 303 Date: 2/17/202 User: PSH Agency or org ERTILIZING aterials	State: Color County: Weld anization name: DRMS			Abbreviation: Filename:	None M069-303
	Description		Units / Acre	Unit	Cost / Unit	Cost /Acre
					\$	\$
					Total Fertilizer Materials Cost/Acre	

Application

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

TILLING

Description		Cost /Acre
Chisel plowing {DMG}		\$98.43
Weed control spraying (MEANS 31 31 16.13 3100)		\$290.40
	Total Tilling Cost/Acre	\$388.83

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Alkali Sacaton	0.20	7.81	\$5.70
Switchgrass - Blackwell	0.70	6.25	\$8.05
Sideoats Grama - Butte	0.90	2.95	\$8.10
Western Wheatgrass - Arriba	7.20	18.18	\$46.80
Needlegrass, Green - Lodorm	1.50	6.23	\$17.66
Totals Seed Mix	10.50	41.43	\$86.31

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
Straw, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$421.36	\$842.72
Total Mulch Materials Cost/Acre				\$842.72

Application

Description		Cost /Acre
Crimping, with tractor {DMG survey data}		\$73.00
	Total Mulch Application Cost/Acre	\$73.00

NURSERY STOCK PLANTING

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
Cottonwood, Narrowleaf	1	Tubling, 3 cu. in. container (MEANS)	\$1.14	\$0.00	\$1.14
Snowberry, Mountain	1	Container, 1 gallon (MEANS)	\$15.66	\$0.00	\$15.66
Winter Fat	1	Container, 1 gallon (MEANS)	\$9.94	\$0.00	\$9.94

JOB TIME AND COST

 No. of Acres:
 124
 Cost / Acre:
 \$1,649.60

 Estimated Failure Rate:
 25%
 Cost / Acre*:
 \$318.31

*Selected Replanting Work Items: FERTILIZING,SEEDING

Initial Job Cost: \$204,550.40

Reseeding Job Cost: \$9,867.61

Total Job Cost: \$214,418

80.00

EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task description:	Mob/Demob					
Site: 83rd Joint Venture	Per	mit Action:	SO3 Bo	nd Estimate	Permit/Jol	b#: <u>M1992069</u>
PROJECT IDENTIFIC	<u>ATION</u>					
Task #: 304 Date: 2/17/2023 User: PSH	State: County: _	Colorado Weld			Abbreviation: Filename:	None M069-304
Agency or organiz	zation name: DR	MS				
EQUIPMENT TRANSI				Cost Data	Source: C	1 per day CRG Data
Truck Tractor	Description: GE	NERIC ON-		AY TRUCK TRA 400 HP (2ND HA		DIESEL POWERED,
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/Ho	ur: \$15.25	\$23	.06	\$37.58		
Operating Cost/Ho		\$30	.83	\$51.41		
Operator Cost/Ho	:: \$27.71 \$27.71					

NON ROADABLE EQUIPMENT:

Total Unit Cost/Hour:

Helper Cost/Hour:

\$0.00

\$68.22

Machine Description	Weight/ Unit (TONS)	Owner ship Cost/hr/ unit	Haul Rig Cost/hr/uni t	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet	DOT Permit Cost/ fleet
CAT 825H	36.08	\$217.61	\$101.82	1	\$319.43	\$101.82	\$250.00
Cat D8T - 8SU	53.08	\$137.95	\$136.92	1	\$274.87	\$136.92	\$250.00

\$20.22

\$101.82

\$20.22

\$136.92

Subtotals: \$594.30 \$238.74 \$500.00

ROADABLE EQUIPMENT:

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

GREELEY

miles

30.00

mph

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

\$2,743.96

\$0.00

Transportation Cycle Time:

	Non-		
	Roadable	Roadable	
	Equipment	Equipment	
Haul Time (Hours):	0.33	0.33	
Return Time (Hours):	0.33	0.33	
Loading Time (Hours):	0.50	NA	
Unloading Time (Hours):	0.50	NA	
Subtotals:	1.67	0.67	

JOB TIME AND COST

Total job cost: 3.33 Hours

Total job cost: \$2,744

COMPACTION WORK

Task description:	Compact and p	lace imported f	fill			
e: 83rd Joint Venture Permit Action: SO		SO3 Bond I	O3 Bond Estimate Permit/Job#: _			
PROJECT IDENTIFIC	CATION					
Task #: 305 Date: 2/17/2023 User: PSH	State: County:	Colorado Weld				one 1069-305
Agency or organi	zation name: D	RMS				
HOURLY EQUIPMEN	T COST					
Basic Machine: Compactor Type:	CAT 825H Soil - tamping	foot		Horsepower: Shift Basis: Data Source:	354 1 per c (CRC	lay
Cost Breakdown:			I	Utilization %		
Operat Opera	hip Cost/Hour: _ ing Cost/Hour: _ ttor Cost/Hour: _ Jnit Cost/Hour:	\$217.6 \$139.8 \$31.50 \$388.9	0	NA 100 NA	- - -	
Total F	eet Cost/Hour:	\$388.9	1			
MATERIAL QUANTIT	ΓIES					
Loose volume Compacted volume		6,578 9 ,920	LCY CCY	Shr	rinkage factor:	0.900
	ee of estimated vo mated shrinkage f		n of Reclan	nation, Mining &	Safety	
HOURLY PRODUCTI	<u>ON</u>		Unadjust	ed hourly produc	$etion = (W \times S)$	<u>x L x C) / P</u>
Avera Compacted	acted width per pa age Compactor Sp thickness of each Conversion Const	eed (S): lift (L):	7.34 3.00 6.00 16.3	feet mph inches	t./12in./27cu.fi	.)
Required numb	per of machine past Hourly Unit Pro-	sses (P):	538.39	passes CCY/h)
Job Condition Correction F	actors		Site Altit	ude: <u>4,800</u> feet		
Altitude Adj: Job Efficiency: Net Correction:	1.00 0.83 0.8300	Source (CAT HB) (1 shift/day) multiplier		COVIII		
	usted Hourly Unit usted Hourly Fleet		446.86 446.86	CCY/Hour		
JOB TIME AND COST	=	h- "(-)	T.	4-1:-1-2	2 555 04	11
Fleet size: 1 Unit cost: \$0.8'	Compactor(s) 370 per CCY			tal job time: otal job cost:	3,557.96 \$1,383,726	Hours

BULLDOZER WORK

Task description:	Backfill Stoo	ekpile Rough Gr	ading		
e: 83rd Joint Ventur	e	Permit Action:	SO3 Bond Estimate	Permit/Jol	o#: <u>M1992069</u>
PROJECT IDENTI	FICATION				
Task #: 306	Sta	te: Colorado		Abbreviation:	None
Date: 2/17/20	Z3 Coun	ty: Weld		Filename:	M069-306
User: PSH					
Agency or or	ganization name:	DRMS			
HOURLY EQUIPM	MENT COST				
	Cat D8T - 8SU		<u> </u>		
<u> </u>	310		_		
	Semi-Universal		<u> </u>		
	NA		_		
	1 per day (CRG)		_		
_	(CKU)		_		
Cost Breakdown:		ı			
0 11 0 7		010105	<u>Utilization %</u>		
Ownership Cost/Hou		\$124.85	NA 100		
Operating Cost/Hou Ripper ow		\$97.63	100		
Ripper ow Cost/Hou		\$0.00	NA		
Ripper op. Cost/Hou		\$0.00	0		
Operator Cost/Hou		\$40.04	NA		
Total unit Cost/Hour: Total Fleet Cost/Hou	r: \$262.52				
MATERIAL QUAN	<u>NTITIES</u>				
	,766,578				
	.000				
Loose volume: 1	,766,578 LCY				
Source of estimated v	volume: Divis	sion of Reclamati	ion, Mining & Safety		
Source of estimated s		Handbook	<u>, </u>		
factor:					
HOURLY PRODU	CTION				
Average push distanc	e: 100 fee	.+			
Unadjusted hourly	852.6 I				
production:	632.01	C 1/III			
r. outerion.					
Materials consistency	description: Lo	ose stockpile 1.2			
Average push	-5 %				
gradient:					
Average site altitude:	4,800 feet				
Material weight:	2,900 lbs/LC	Y		_	
Weight description:	Sand and grav	vel - Dry			
Job Condition Correcti	on Factor		Source		
	or Skill:	1 000	(EXCL.)		

Material consistency:	1.200	(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:	1.115	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.793	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.7045

Adjusted unit production:

Adjusted fleet production:

600.66 LCY/hr

600.66 LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)
Unit cost: \$0.437/LCY

Total job time: 2,941.06 Hours
Total job cost: \$772,074