Tin Pan Canyon Gob Reclamation Project

May 5, 2020

Invitation to Bid

- Energy, Minerals and Natural Resources Department | Mining and Minerals Division |
 Abandoned Mine Land Program
- ITB #00-52100-20-06011
- EMNRD-MMD-2020-02









Sign-in

Please use the "CHAT" option in the Zoom app to send the following:

- NAME & TITLE
- COMPANY NAME
- ADDRESS
- PHONE NUMBER
- EMAIL ADDRESS

This is how we will keep track of who attended the Mandatory Pre-Bid Meeting. Anyone calling in by phone, please send an email to Yeny.Maestas@state.nm.us to record your attendance.



Introductions/Contact Information

Pro	ioct	En	ain	001	·c·
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Mike Tompson P.E.

Program Manager

(505) 690-8063

Yeny Maestas

Mike.Tompson@state.nm.us

Project Managers:

Joe Vinson

Project Manager/Soil Scientist

(505) 690-8070

Joe.Vinson@state.nm.us

Procurement Specialist:

Mark Lujan

Procurement Specialist

(505) 827-0564

Mark.Lujan@state.nm.us

Laurence D'Alessandro

Staff Engineer

(505) 469-6678

Yeny.Maestas@state.nm.us

Project Manager

(505) 476-3425

Laurence.DAlessandro@state.nm.us

Designer of Rock Rundown:

Natural Channel Design, Inc.

(928) 774-2336

Allen@naturalchanneldesign.com



New Mexico Abandoned Mine Land Program

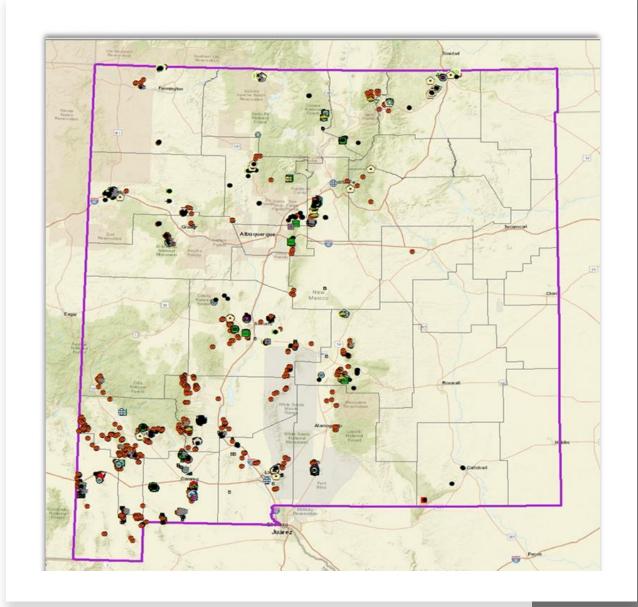
Funded by OSMRE using a fee on coal production

10 employees based in Santa Fe, NM

Safeguarding and reclaiming abandoned mine lands in NM since 1981

Over 15,000 abandoned mine features in the State of New Mexico

3,000+ Mine Openings Safeguarded to Date



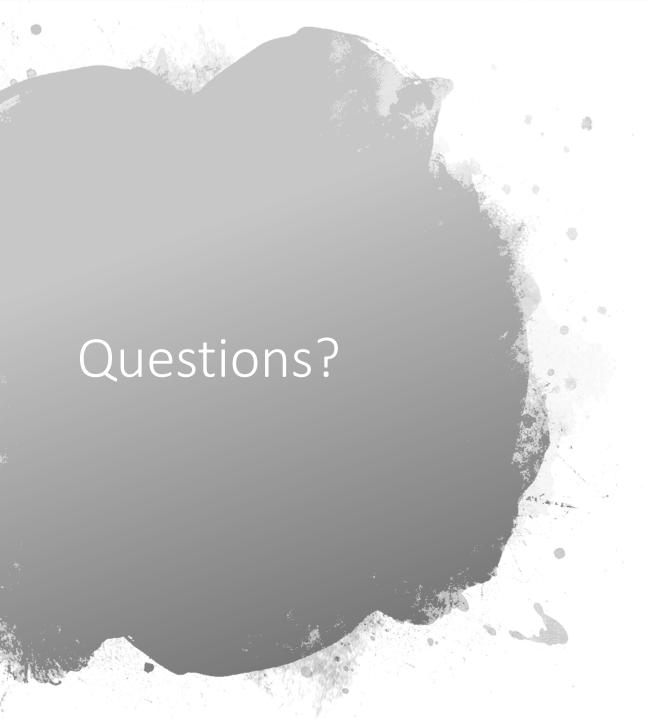
AML Program's reclamation priorities

Protection of public health, safety, and property from immediate hazards, resulting from historic mining practices

Protection of public health, safety and general welfare from adverse effects of past mineral mining and processing practices, which do not constitute an extreme danger

Restoration of lands and waters degraded by adverse effects of past mining practices.





- Verbal responses to questions will not be binding. We would request all questions also be submitted in writing to the Procurement Specialist by email. Responses to questions will be provided in a forthcoming Amendment posted on the State Purchasing Division website and where bid documents can be obtained. Questions must be submitted no later than 5:00 PM on May 6, 2020, to the Procurement Specialist at the email address listed below. Questions with the corresponding Answers will be posted no later than May 7, 2020.
- All questions regarding this ITB MUST be submitted in writing to:

Mark.Lujan@state.nm.us

Bids Due:

May 19, 2020 by 2:00 P.M. MDT

 To view technical specifications and drawings for Tin Pan Gob Reclamation Project (ITB #00-52100-20-06011):

http://www.emnrd.state.nm.us/MMD/AML/TinPanCanyon.html

• To submit your bid package for ITB #00-52100-20-06011:

https://bids.sciquest.com/apps/Router/PublicEvent?CustomerOrg=StateOfNewMexico

ELECTRONIC SUBMISSIONS ONLY!!!

If you find that you need assistance uploading your Bid into our online system or if you need help registering as a supplier in our system please call Support Desk at 505-827-0467.

- Questions Due: May 6, 2020
- Answer Due: May 7, 2020
- Last Amendment Deadline: May 8, 2020
- Bid Form: Review and complete the entire bid form, <u>plus</u> required attachments.
- Bid Bond: In the amount of five percent (5%) of the total Base Bid amount.
- Amendments: There have been <u>no</u> amendments released. The last Amendment date is May 8, 2020.

- Subcontractor Listing form
- Public Works Wage Rate Determination found in Section 00830 in Manual
- Bid Valid for a minimum of 120 days
- Sample Contract included in Bid package
- * Bidders <u>must</u> acknowledge amendments or else submittal will be deemed UNRESPONSIVE*

Prices

- Lump Sum Prices Include:
- 1) Mobilization
- 2) Rock Rundown installation
- Unit Prices Include:
- 1) Straw Bale Terraces and installation (LF)
- 2) Erosion Control Wattle Terraces and Installation (LF)
- 3) Sediment Barrier Dams (LF)
- 4) Seedling Planting (EA)
- 5) Seedling Protection Tubes (EA)
- 6) Fertilizers and Amendments (Acre)
- 7) Seeding (Acre)
- Allowance for Plan Survival Bonus (up to \$16,000)

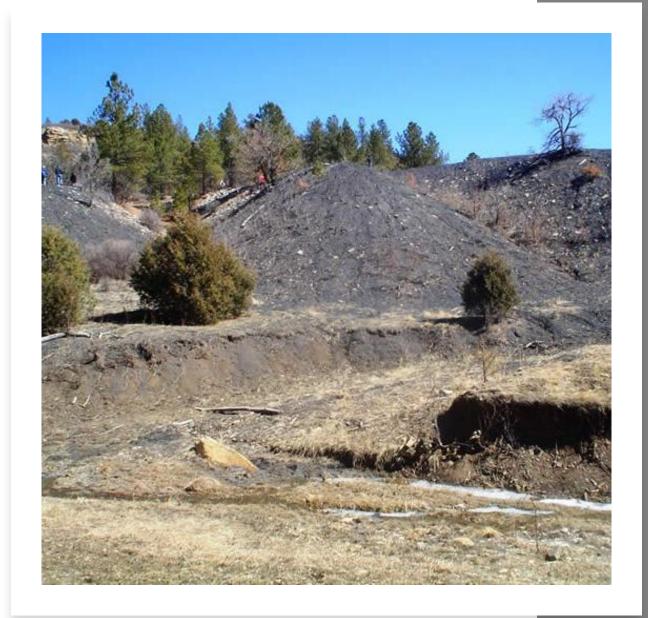
Tin Pan Canyon Gob Reclamation Project Summary of Work

The Tin Pan Canyon Gob Reclamation
Project area is located about eight miles
northwest of Raton in Colfax County, New
Mexico. The project area is on private
land within the Vermejo Park Ranch.



Tin Pan Canyon Gob Reclamation Project Summary of Work

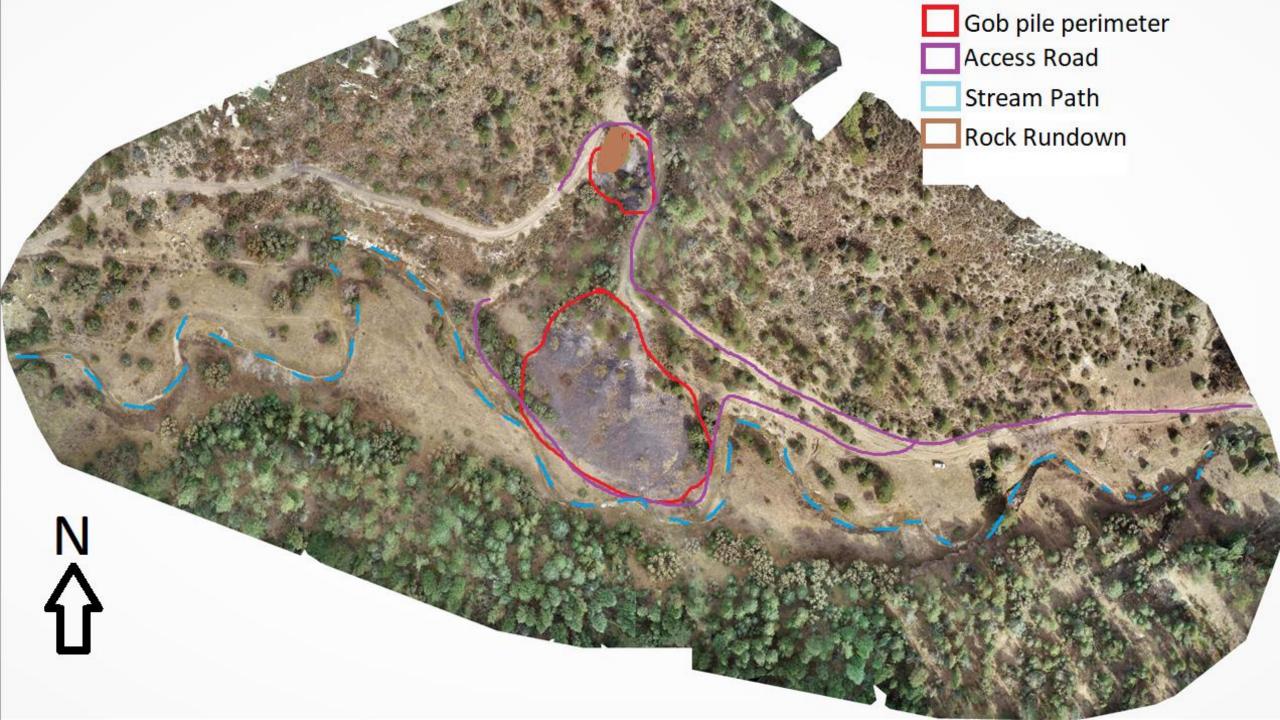
The Tin Pan Gob Reclamation Project involves stabilization of steep slopes on two coal gob piles approximately two acres in size that have been contributing mine waste to an adjacent ephemeral channel. Work includes establishment of vegetation and installation of various erosion control structures necessary to facilitate effective stormwater management.



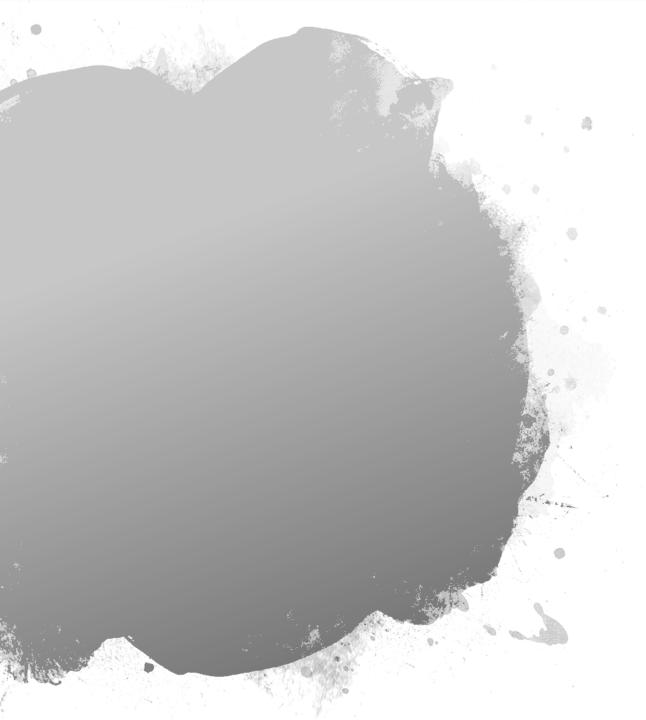
Tin Pan Canyon Gob Reclamation Project Summary of Work

- Installation of a rock rundown to further prevent headcuts at the downstream edge of the access road from moving into the road. The rock rundown has been designed by Natural Channel Design;
- installation of erosion control wattles and straw bale terraces on contour on the gob piles and sediment logs in small gob drainages as erosion and sediment control measures (Vermejo Park Ranch will furnish the erosion control wattles to be used for this project);
- installation of several low sediment barrier dams along the secondary drainage adjacent to the small north gob pile and at one small drainage below the larger south gob pile for sediment control; and
- seedling planting, fertilization, amendment, and hydroseeding in coal gob piles to stabilize the coal waste and prevent future erosion.









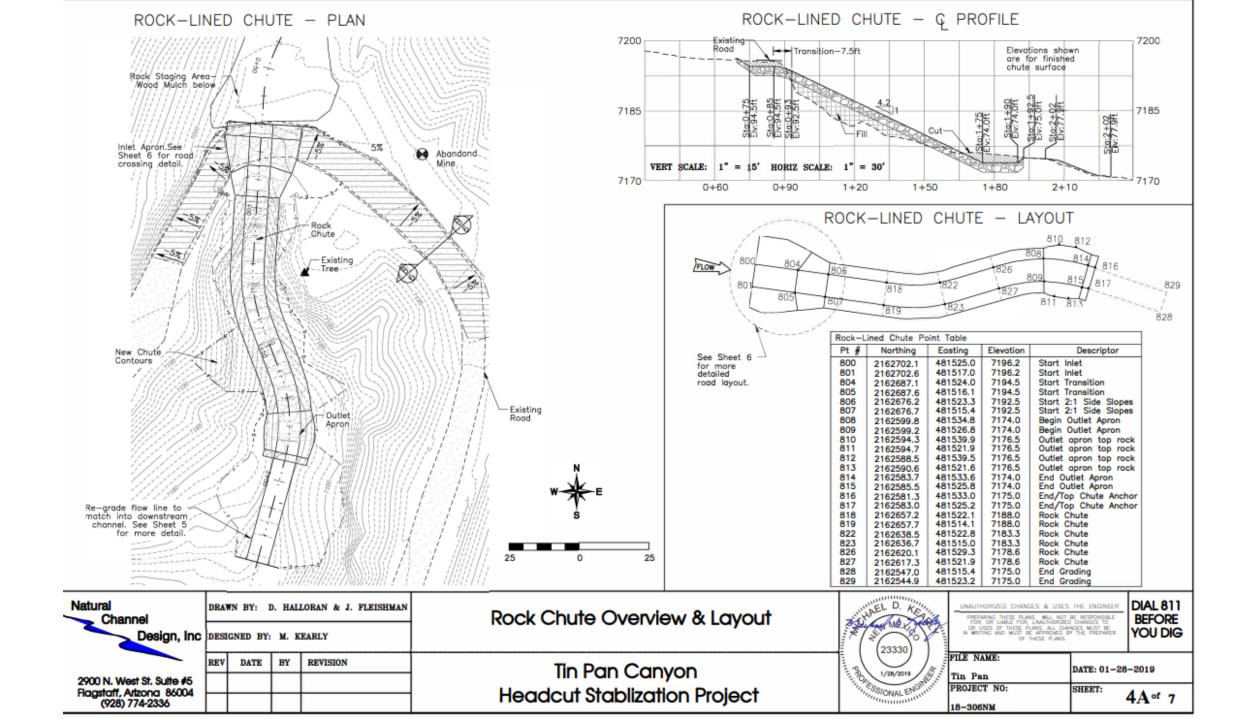
Rock Rundown Construction

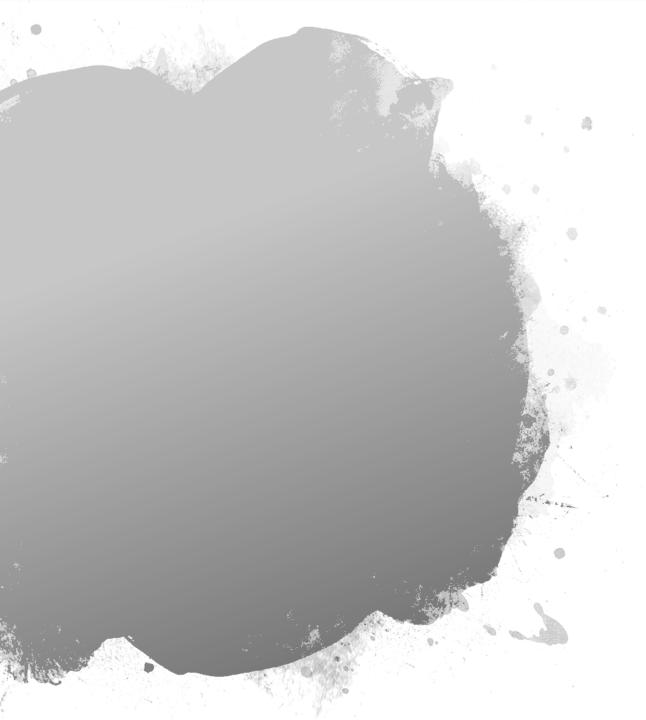
- Rock to be supplied by the Vermejo Park Ranch
- Designed by Natural Channel Design, INC.











Erosion Control Measures

- Erosion control wattles will be supplied by Vermejo Park Ranch from Silver Dollar Wood Products in Maxwell, NM.



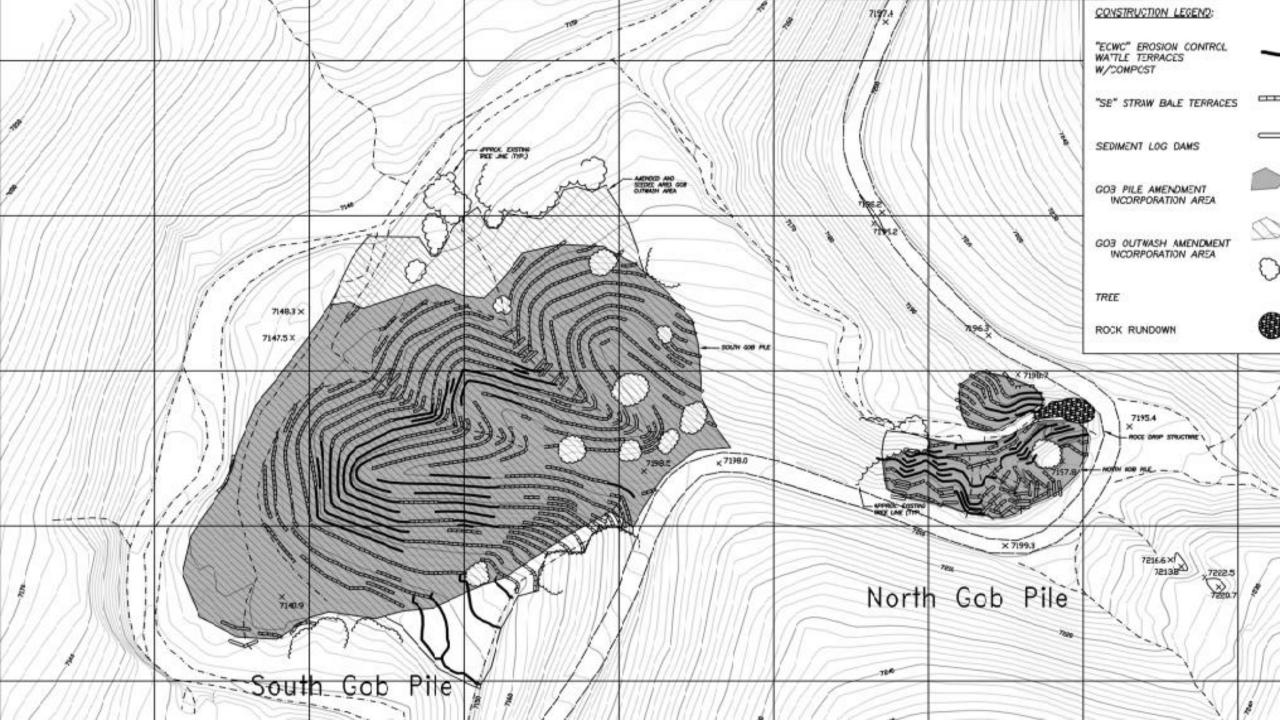


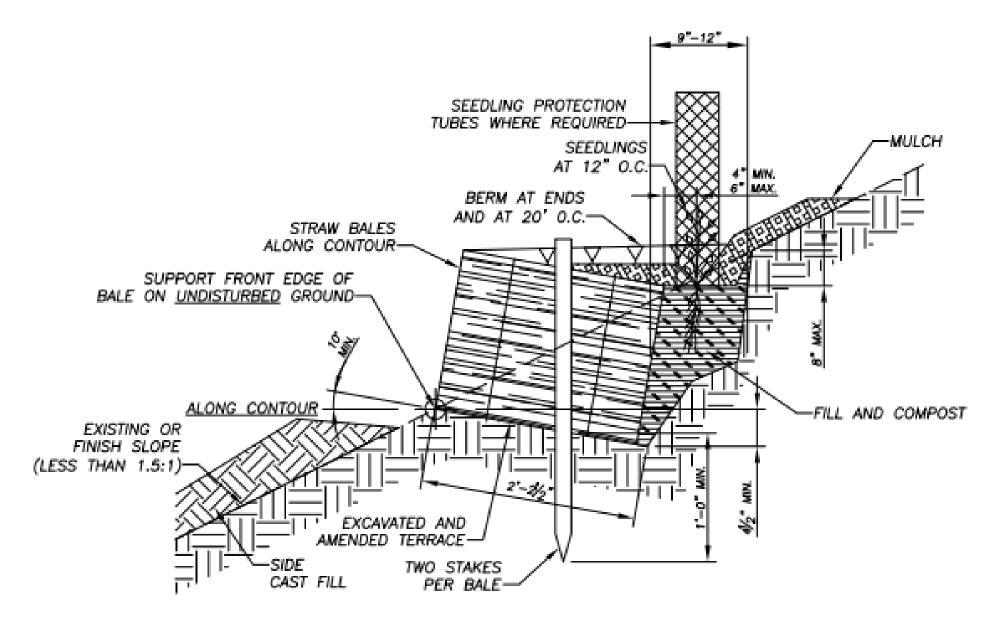




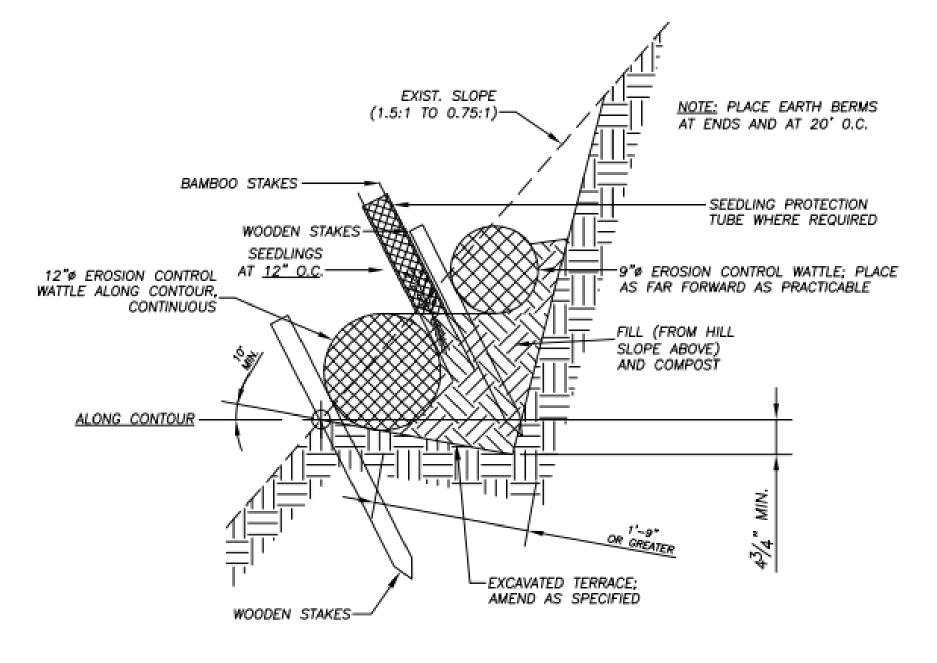




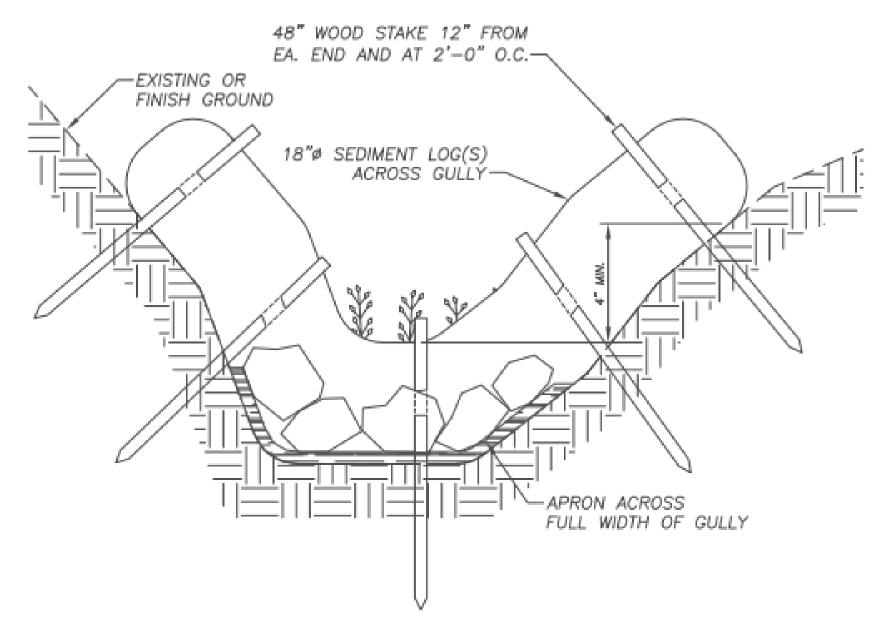




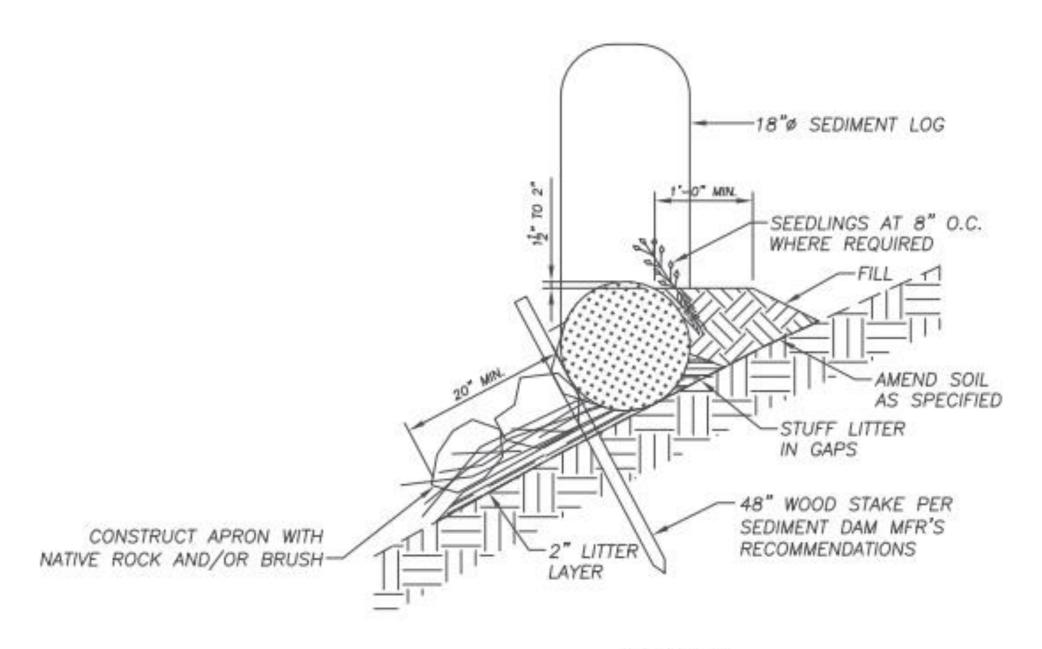
TYPICAL SECTION - TYPE "SB" STRAW BALE TERRACE (ON SLOPES LESS STEEP THAN 1.5:1)



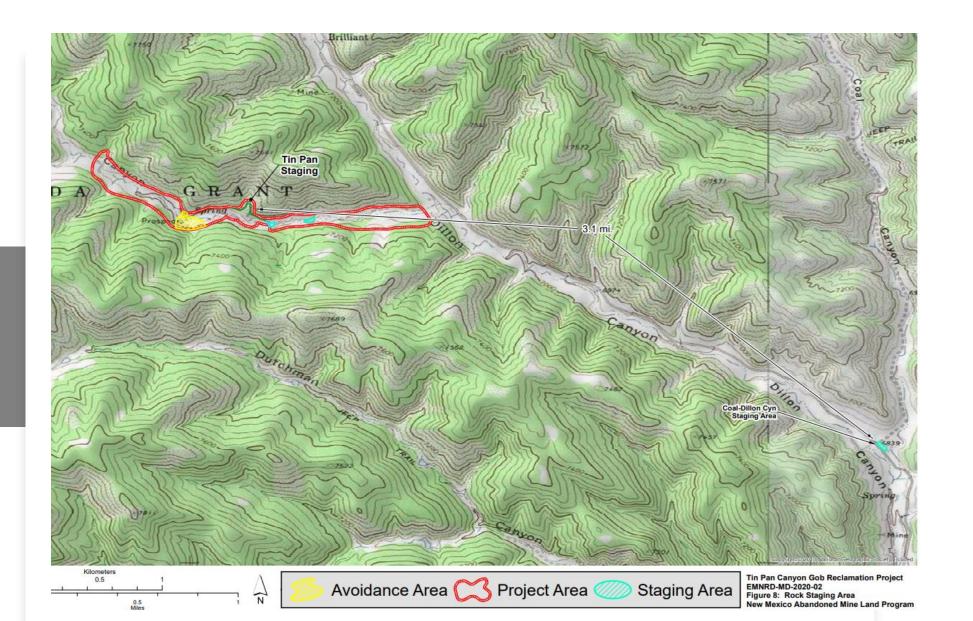
<u>TYPICAL SECTION - EROSION CONTROL WATTLE</u>
<u>TERRACE</u>



ELEVATION



SECTION



Staging and Avoidance Areas



Amendment incorporation, seedling planting, fertilization, and hydroseeding

Planting & Seeding

Planting

- Containerized seedlings
- Behind erosion control structures
- · 1-foot spacing
- Plants provided by AML Program

Seeding

- Hydraulically-applied seed mix of grasses, forbs and shrubs
- Contractor provides hydraulicallyapplied seed mix
- Maintenance and protection
- Possible Bonus
- Formula based on plant survival rate

Table II. Plant Materials: Containerized Seedlings1

CARRELL LIMING	Materials: Contain	arent Basertin (2	seemings.	
Shrub/Tree Species		Flats	Seedling s	Notes
box elder	Acer negundo	4	196	plant in protected drainage only
kinnikinik	Arctostaphylos uva-ursi	12	588	
mountain mahogany	Cercocarpus montanus	13	637	seed + seedling
Rocky Mountain juniper	Juniperous scopulorum	12	588	
winterfat	Krascheninnikov ia lanata	12	588	seed + seedling
ponderosa pine	Pinus ponderosa	5	245	
chokecherry	Prunus virginiana	4	196	plant in protected drainage only
Gambel oak	Quercus gambelli	12	588	
skunkbush sumac	Rhus trilobata	13	637	
wax current	Ribes cereum	12	588	seed + seedling
Wood's rose	Rosa woodsii	12	588	seed + seedling, about 1/2 of seedlings in protected drainage
mountain snowberry	Symphoricarpos oreophilus	12	588	seed + seedling
		123	6027	

Fertilizers and Amendments

- Compost
- Wood Waste Chips
- Gypsum
- Biosol
- Biotic Soil Media
- Provided by Contractor

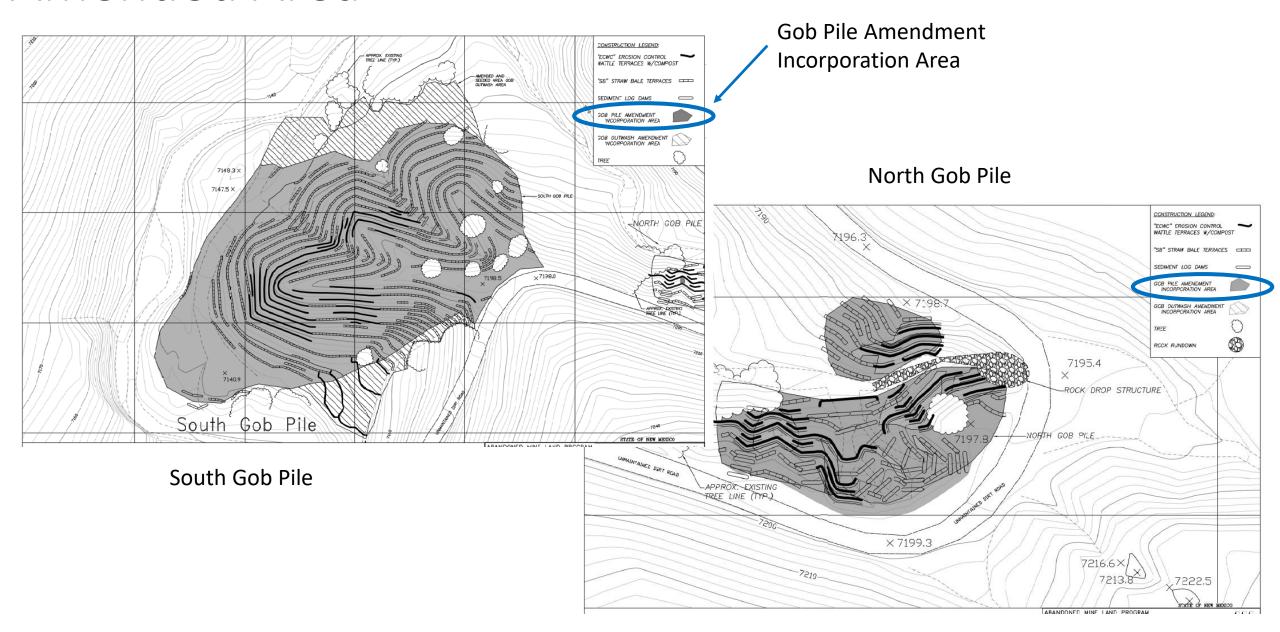
Table III. Product Use Distribution Across Planting Processes

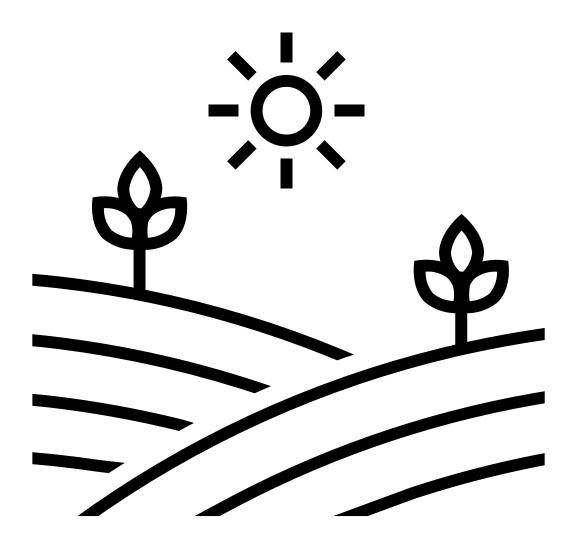
Amandanant an Additiva	Section 02900				
Amendment or Additive	Gob Amendment	Seeding	Mulching		
Compost	X				
Wood Chips	Х				
Gypsum	X				
Biosol	X				
Protein Crumblies		Χ			
Terra Pro		Χ			
MycoApply Ultrafine Endo/Ecto		Χ			
Biotic Soil Media (BSM)		X			
Flexible Growth Media (HP-FGM)			X		

Table VI. Amendment Treatment Regime for Tin Pan Canyon Gob Reclamation Project

Amendment	Per Acre	Open Gob & Outwash	Terraces	Total Amount Required ²
Compost	269 cyd	2-inch depth, 6.2 cyd/1,000 square feet	2-inch depth, 1.7 cft/ 10 linear feet	77 cyd
Wood Chips	269 cyd	2-inch depth, 6.2 cyd/1000 square feet	2-inch depth, 1.7 cft/ 10 linear feet	77 cyd
Gypsum	4,000 lbs	92 lbs /1,000 square feet	1 lbs/10 linear feet	1150 lbs
BioSol® (6- 1-1)	2,000 lbs	46 lbs/1,000 square feet	0.5 lbs/10 linear feet	600 lbs

Amended Area





Allowance for Plan Survival Bonus

If plant material survival rate is more than 40 percent, the contractor shall receive a monetary bonus of up to \$16,000.00, to be calculated by the following formula:

B = S * 0.0433 - 1.7333, where B is the bonus in dollars per plant planted, S is the survival in percentage.

The calculated bonus in dollars per plant planted, B, rounded to the nearest cent, will then be multiplied by the total number of plants planted to calculate the total monetary bonus paid to the Contractor. For example, if 6,200 seedlings were planted and 90 percent of those survived the bonus would amount to about \$13,415.

B = 90*.0433-1.7333 = 2.1637 * 6200 = \$13,415



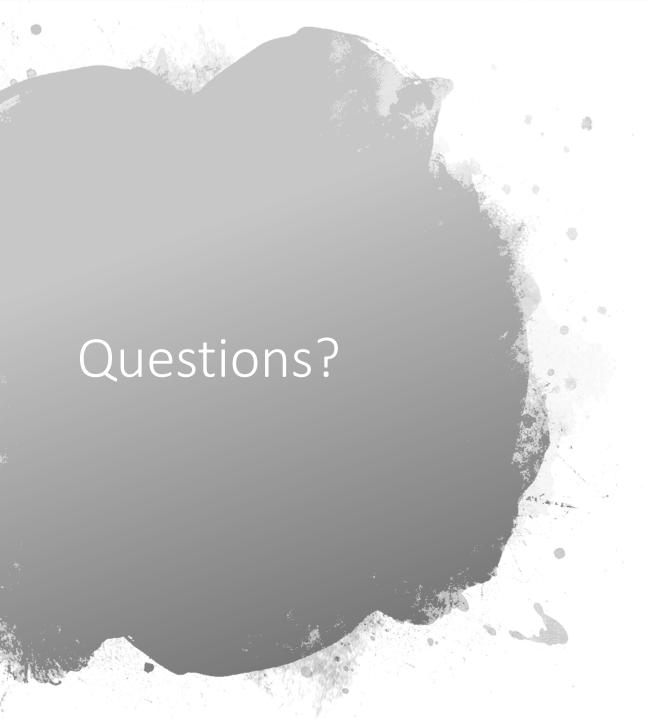
Example: AML
Sugarite Gob
Reclamation Project –
BEFORE



Example: AML Sugarite Gob Reclamation Project - BEFORE



Example: AML Sugarite
Gob Reclamation
Project - AFTER



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Remember

MAY 19, 2020 by 2:00 P.M. MDT



Thank you!