

>mzoor

RFQ COPY

TYPE NAME/ADDRESS HERE

State of West Virginia Department of Administration Purchasing Division 2019 Washington Street East Post Office Box 50130 Charleston, WV 25305-0130

Request for Quotation

	,,,					 •
n	c	D	1	ᄃ	n	0

:::::::F	Α	Q		
	-			
			-	

CHUCK BOWMAN 304-558-2157

ENVIRONMENTAL PROTECTION DEPARTMENT OF OFFICE OF AML&R 601 57TH STREET SE CHARLESTON, WV 25304

304-926-0499

c		····								
DATE PRIN	<u> </u>	TER	MS OF SAL	Ē	SHIP	/IA		O.B,		FREIGHT TERMS
BID OPENING DATE:		24/20/	~~~~							_ ::-::-
[00000000000000000000000000000000000000		06/29/		- AAT			OPENING		01	:30PM
LINE	QUAI	NTITY	UOP	CAT. NO	ITEM NU	MBER	UNI	TPRICE		AMOUNT
	*****	*****	****	* ADD	ENDUM NO.	1 ***	*****	·****	***	
					E MALLORY					
					SIGN-IN				THE	
					RESULTIN	IG FROM	THE MANI	DATORY		
	BKE-RT	D MEE I	ING U	F 05/	27/2010.					·
	חום חום	ENTAG	DATE	о ттм	E REMAIN	UNCUANO	ED 46 04	7 /20 /20	, ,	
	AT 1:3		DAIE	X 1 1 1 1	E KEHWIN	UNCHANG	ED AS OC)/27/2U	10	
								-		
	*****	*****	****	* NO	OTHER CHA	NGES **	 ******	(*****	**	
	,			. !						
	,) 						
1				<u> </u> 						
•				: 						
							· ·			
								• .	,	
	٠.		Γ.		·	÷		• •		
0001			<u> </u>				1			ļ.
0001		,	JB		962-73					
	RECLAM	ATTON	REST	ORATI	ON OF LAN	ነከ & በTH	FR PROPE	PTIFS		
				J. C.	01. 01. 21	115 C 0 1.11			ļ	
										·
										•
										ļ.
				EN	- ar bra	25016				
	*****	THIS	TS I	HE EN	D OF RFQ	DFLTP	049 ***	(** TUT	AL:	
			<u> </u>							
	1			_ <u> </u>	 Verse side for t	EBMS AND CO	MOITIONS		510000000	
SIGNATURE				Wish tile	VEHIOL GIDE FOR	TELEPHONE	None	D	ATE	
TITLE		FE	HKI				·	<u> </u>		
mice			IIN				ADI	DRESS CHAN	IGES	TO BE NOTED ABOVE

GENERAL TERMS & CONDITIONS REQUEST FOR QUOTATION (RFQ) AND REQUEST FOR PROPOSAL (RFP)

- 1. Awards will be made in the best interest of the State of West Virginia.
- 2. The State may accept or reject in part, or in whole, any bid.
- 3. Prior to any award, the apparent successful vendor must be properly registered with the Purchasing Division and have paid the required \$125 fee.
- **4.** All services performed or goods delivered under State Purchase Order/Contracts are to be continued for the term of the Purchase Order/Contracts, contingent upon funds being appropriated by the Legislature or otherwise being made available. In the event funds are not appropriated or otherwise available for these services or goods this Purchase Order/Contract becomes void and of no effect after June 30.
- 5. Payment may only be made after the delivery and acceptance of goods or services.
- 6. Interest may be paid for late payment in accordance with the West Virginia Code.
- 7. Vendor preference will be granted upon written request in accordance with the West Virginia Code.
- 8. The State of West Virginia is exempt from federal and state taxes and will not pay or reimburse such taxes.
- 9. The Director of Purchasing may cancel any Purchase Order/Contract upon 30 days written notice to the seller.
- 10. The laws of the State of West Virginia and the Legislative Rules of the Purchasing Division shall govern the purchasing process.
- 11. Any reference to automatic renewal is hereby deleted. The Contract may be renewed only upon mutual written agreement of the parties.
- 12. BANKRUPTCY: In the event the vendor/contractor files for bankruptcy protection, the State may deem this contract null and void, and terminate such contract without further order.
- 13. HIPAA BUSINESS ASSOCIATE ADDENDUM: The West Virginia State Government HIPAA Business Associate Addendum (BAA), approved by the Attorney General, is available online at www.state.wv.us/admin/purchase/vrc/hipaa.htm and is hereby made part of the agreement. Provided that the Agency meets the definition of a Cover Entity (45 CFR §160.103) and will be disclosing Protected Health Information (45 CFR §160.103) to the vendor.
- 14. CONFIDENTIALITY: The vendor agrees that he or she will not disclose to anyone, directly or indirectly, any such personally identifiable information or other confidential information gained from the agency, unless the individual who is the subject of the information consents to the disclosure in writing or the disclosure is made pursuant to the agency's policies, procedures, and rules. Vendor further agrees to comply with the Confidentiality Policies and Information Security Accountability Requirements, set forth in http://www.state.wv.us/admin/purchase/privacy/noticeConfidentiality.pdf.
- 15. LICENSING: Vendors must be licensed and in good standing in accordance with any and all state and local laws and requirements by any state or local agency of West Virginia, including, but not limited to, the West Virginia Secretary of State's Office, the West Virginia Tax Department, and the West Virginia Insurance Commission. The vendor must provide all necessary releases to obtain information to enable the director or spending unit to verify that the vendor is licensed and in good standing with the above entities.
- 16. ANTITRUST: In submitting a bid to any agency for the State of West Virginia, the bidder offers and agrees that if the bid is accepted the bidder will convey, sell, assign or transfer to the State of West Virginia all rights, title and interest in and to all causes of action it may now or hereafter acquire under the antitrust laws of the United States and the State of West Virginia for price fixing and/or unreasonable restraints of trade relating to the particular commodities or services purchased or acquired by the State of West Virginia. Such assignment shall be made and become effective at the time the purchasing agency tenders the initial payment to the bidder.

I certify that this bid is made without prior understanding, agreement, or connection with any corporation, firm, limited liability company, partnership, or person or entity submitting a bid for the same material, supplies, equipment or services and is in all respects fair and without collusion or Fraud. I further certify that I am authorized to sign the certification on behalf of the bidder or this bid.

INSTRUCTIONS TO BIDDERS

- 1. Use the quotation forms provided by the Purchasing Division. Complete all sections of the quotation form.
- 2. Items offered must be in compliance with the specifications. Any deviation from the specifications must be clearly indicated by the bidder. Alternates offered by the bidder as **EQUAL** to the specifications must be clearly defined. A bidder offering an alternate should attach complete specifications and literature to the bid. The Purchasing Division may waive minor deviations to specifications.
- 3. Unit prices shall prevail in case of discrepancy. All quotations are considered F.O.B. destination unless alternate shipping terms are clearly identified in the quotation.
- 4. All quotations must be delivered by the bidder to the office listed below prior to the date and time of the bid opening. Failure of the bidder to deliver the quotations on time will result in bid disqualifications: Department of Administration, Purchasing Division, 2019 Washington Street East, P.O. Box 50130, Charleston, WV 25305-0130
- 5. Communication during the solicitation, bid, evaluation or award periods, except through the Purchasing Division, is strictly prohibited (W.Va. C.S.R. §148-1-6.6).

RFQ 15049 Mallory Refuse Pile Addendum #1

- Item 1:
- Q) Does the site (material) balance?
- A) Yes, material balances.
- Item 2:
- O) Where is the soil borrow area?
- A) A potential soil borrow area is identified on the plans, located above the coal refuse and below the access road, and adjacent to the concrete remnants. The potential soil borrow area is identified on drawing number E-E6.
- Item 3:
- Q) What is the Engineer's Estimate (4) for this project?
- A) The estimate is \$272,498. However, please note that the channels are now required to be grouted riprap (instead of riprap) and this should raise the estimate slightly (estimate \$280,000 \$290,000).
- Item 4:
- Q) What is the length of channel from the portal?
- A) By scaling, the length of channel is approximately 70 ft. Please note that the conveyance pipes from the portal (by scaling, estimate to be 45 ft) discharge into channel 3 and channel 3 in turn discharges onto an energy dissipater. This may be seen on drawing number E-E7.
- Item 5:
- C) Material to be windrowed.

Please note that some on site material (trees, limbs, etc) will be windrowed and located as per WVDEP Engineer/Inspector designated location. The purpose is to try and eliminate/limit 4 wheeler (ATV) access to the site.

- Item 6:
- Q) What is the time for construction of this project?
- A) The Contractor will have 90 days from the date of the Notice-to-Proceed to complete construction activities on the project. The \$250 per day liquidation damage clause will be in effect after the 90 days. However, the total performance period will be 365 days from the date of the Notice-to-Proceed for invoicing purposes.
- Item 7: Add the following to Section 7.2.1 of the Technical Specifications:

"All of the channels for the project shall have full penetration grout. The grout for the channels shall consist of a mixture of Portland cement, fine aggregate, and water so proportioned and mixed as to provide a readily pumpable slurry. Admixtures and/or a pozzolan may be used with the approval of the Engineer. The grout shall exhibit a compressive strength of 2,000 pounds per square inch at 28 days with specimens made and tested according to the provisions of ASTM C 31 and C 39.

Item 8: Add the following to Section 7.4 of the Technical Specifications:

"The grout and grouting of the channels shall be included in the per linear foot price for the channels."

Item 9: On Drawings E-E6, E-E7, E-E8, and E-E9, Note 1 shall be deleted.

Item 10: Erosion control and sediment control shall be paid per the price for "Sediment Control". Sediment control shall be silt fence. Erosion control (post construction) can be either silt fence or straw bales.

Item 11: The Storm Water NPDES permit application has been submitted to WVDEP.

9.0 SEDIMENT CONTROL

9.1 <u>Description</u>

This item shall consist of furnishing all materials, equipment, labor and incidentals necessary for the installation of Silt Fence and Super Silt Fence as designated in the Drawings. Sediment control shall be installed about the perimeter of disturbed areas prior to any construction activities. Sediment control shall be placed on regraded outslope areas concurrent with construction and prior to revegetation. Installation locations are shown in the Drawings. Additional locations may be added at discretion of the WVDEP. Straw bales may not be used for sediment control, but may be used for erosion control as a substitute for silt fence as approved by the WVDEP. Silt Fence and Super Silt Fence materials, installation, and maintenance shall be in accordance with the Erosion and Sediment Control Best Management Practice Manual, West Virginia Department of Environmental Protection, Division of Water and Waste Management, dated 2006.

9.2 Materials

9.2.1 Silt Fence

Silt fencing shall meet all applicable requirements of the West Virginia DOT DOH Specifications.

Synthetic filter fabric shall contain ultraviolet ray inhibitors and stabilizers to provide a minimum of 6 months expected usable construction life at a temperature range of 0 to 120 degrees Fahrenheit.

If wooden stakes are utilized for silt fence construction, they must be a minimum of 2" x 2" when oak is used and 2" x 4" when pine is used. Wooden stakes should have a minimum length of 5 feet.

If steel posts (standard "U" or "T" section) are utilized for fence construction, they must have a minimum weight of 1.33 pounds per linear foot and should have a minimum length of 5 feet.

9.2.2 Super Silt Fence

Fencing shall be 48 inches in height and constructed in accordance with the WV DOT, Division of Highways specification for Chain Link Fencing. The DOT specification for a 6-foot fence shall be used, substituting 48-inch fabric and 6 foot length posts. The filter fabric shall meet the requirements of 715.11.5/AASHTO M 288, Section 7, Class 1.

9.2.3 Straw Bales (Erosion Control Only)

Standard straw bales tied with either wire or nylon string if available. These types of ties will not deteriorate rapidly and insure a longer life. If ordinary baler twine is used, the bales shall be placed so that the twine is not in contact with the ground.

9.2.4 Stone Check Dams

Stone check dams shall be constructed at the locations indicated on the plans or as approved by the WVDEP representative. The dams shall meet the following standards.

- a. Rock rip-rap used for construction of the stone check dam shall be the same quality and gradation as the rip-rap specified in Section 6.2.2
- b. The dam will be keyed into the side slopes and bottom of the channel a minimum of 2 feet. Minimum key width will be 3 feet.
- c. Upstream and downstream slopes will be 3 horizontal to 1 vertical or flatter.
- d. A weir 2 feet wide by one foot deep will be constructed across the center of the dam.

The maximum height will be 4 feet from the lowest point along the centerline of the dam to the crest of the weir

5.2.5 Stabilized Construction Entrance

Stone used for construction of the Stabilized Construction Entrance shall be the same quality and gradation as the Stone specified in Section 6.2.5

9.3 Installation

9.3.1 Silt Fence

The height of a silt fence shall be a minimum of 16 inches above the original ground surface and shall not exceed 34 inches above ground elevation.

The filter fabric shall be purchased in a continuous roll cut to the length of the barrier to avoid the use of joints. When joints are unavoidable, the silt fence shall be spliced together only at a support post, by twisting the last post of each run around each other, and securely sealed.

A trench shall be excavated approximately 4 inches wide and 4 inches deep on the upslope side of the proposed location of the measure.

The filter fabric shall be fastened securely to the upslope side of the posts using one inch long (minimum) heavy-duty wire staples or wire ties and eight inches of the fabric shall be extended into the trench. The fabric shall not be stapled to existing trees. The most common type of silt fence has the stakes attached to the fabric at the factory.

The 4-inch by 4-inch trench shall be backfilled and the soil compacted over the filter fabric.

Silt fence shall be removed when it has served its useful purpose, but not before the upslope area has been permanently stabilized.

Turn the end of a run of silt fence slightly uphill to prevent runoff from going around the end.

9.3.2 Super Silt Fence

The poles do not need to be set in concrete.

Chain link fence shall be fastened securely to the fence posts with wire ties or staples.

Geotextile fabric shall be fastened securely to the chain link fence with ties spaced every 24" at the top and mid section.

Geotextile fabric shall be embedded a minimum of 12" into the ground.

When two sections of geotextile fabric adjoin each other, they shall be overlapped by 6" and folded.

Metal posts as specified by DOH can be replaced by pressure-treated 4" x 4" posts.

9.3.3 Straw Bales (Erosion Control Only)

All bales shall be placed on the contour with ends tightly abutting the adjacent bales.

All bales shall be embedded in the soil with a minimum of 4 inches or bales covered with a fiber mat, with earth tamped on the upstream side to prevent piping.

Bales shall be securely anchored in place by stakes driven through the bales. The first stake in each bale shall be driven toward the previously laid bale to force bales together.

9.4 Maintenance

9.4.1 Silt Fence

Silt fences shall be inspected immediately after each rainfall of 0.5 inch or greater and at least daily during prolonged rainfall at a minimum once every seven days. Any required repairs or maintenance shall be made immediately.

Close attention shall be paid to the repair of damaged silt fence resulting from end runs and undercutting. If the fence is not installed on the contour (perpendicular to the flow of water) both of these conditions can occur.

Should the fabric on a silt fence decompose or become ineffective prior to the end of the expected usable life and the barrier still is necessary, the fabric shall be replaced promptly.

Sediment deposits should be removed after each storm event. They must be removed when deposits reach approximately one-half the height of the barrier.

If any section of silt fence is knocked down during a rain event (because it was installed in an area of concentrated flow) then other measures such as a sediment trap and diversion or super silt fence must be installed.

9.4.2 Super Silt Fence

Super Silt fences shall be inspected immediately after each rainfall, daily during prolonged rainfall and once a week during dry periods. Any required repairs shall be made immediately.

Close attention shall be paid to the repair of damaged Super Silt Fence resulting from end runs and undercutting. If the fence is not installed perpendicular to the flow of water, these conditions will occur.

Should the fabric on a Super Silt Fence decompose or become ineffective, the fabric shall be promptly replaced.

Sediment deposits shall be removed when deposits reach approximately one-half the height of the barrier.

9.4.3 Straw Bales (Erosion Control Only)

An inspection should be made after rainfall and repairs or replacements made promptly as needed. Bales and stakes shall be removed when adequate vegetation has been established.

9.5 Method of Measurement

9.5.1 Silt Fence

Silt Fence measurement shall be performed to the nearest linear foot of Silt Fence placed in conformance with specifications and accepted by the WVDEP. Only that Silt Fence which is illustrated in the Drawings shall be included for measurement. Any additional Silt Fence installed by the Contractor to meet any applicable State or Federal Law or Regulation shall be the Contractor's sole responsibility and all costs pursuant thereto shall be borne fully by the Contractor. Any Silt Fence which is not illustrated in the Drawings that the Contractor may install to protect streams or for other purposes shall not be included for measurement and shall be the sole responsibility of the Contractor. However, any Silt Fence approved by the WVDEP prior to placement shall be included for measurement.

9.5.2 Super Silt Fence

Super Silt Fence measurement shall be performed to the nearest linear foot of Super Silt Fence placed in conformance with specifications and accepted by the WVDEP. Only that Super Silt Fence which is illustrated in the Drawings shall be included for measurement. Any additional Super Silt Fence installed by the Contractor to meet any applicable State or Federal Law or Regulation shall be the Contractor's sole responsibility and all costs pursuant thereto shall be borne fully by the Contractor. Any Super Silt Fence which is

not illustrated in the Drawings that the Contractor may install to protect streams or for other purposes shall not be included for measurement and shall be the sole responsibility of the Contractor. However, any Super Silt Fence approved by the WVDEP prior to placement shall be included for measurement.

9.5.3 Straw Bales

Straw Bales measurement shall be performed to the nearest linear foot of Straw Bales placed in conformance with specifications and accepted by the WVDEP. Only that Straw Bales which is illustrated in the Drawings shall be included for measurement. Any additional Straw Bales installed by the Contractor to meet any applicable State or Federal Law or Regulation shall be the Contractor's sole responsibility and all costs pursuant thereto shall be borne fully by the Contractor. Any Straw Bales which is not illustrated in the Drawings that the Contractor may install to protect streams or for other purposes shall not be included for measurement and shall be the sole responsibility of the Contractor. However, any Straw Bales approved by the WVDEP prior to placement shall be included for measurement.

- 9.5.4 Stone Check Dams: This item shall measured for at the bid unit price per each structure constructed and accepted by the engineer. Payment shall constitute full compensation for all materials, labor, equipment and incidentals necessary to complete the work. Payment shall constitute full compensation for any required maintenance, sediment removal and disposal.
- 9.5.5 <u>Stabilized Construction Entrance:</u> The method of measurement for Stabilized Construction Entrance will be on a lump sum basis.

9.6 Basis of Payment

9.6.1 Silt Fence

This item shall be paid at the bid unit price per linear foot of Silt Fence placed and accepted by the WVDEP. Payment shall constitute full compensation for all materials, labor, equipment and incidentals necessary to perform the work. Additionally, payment shall constitute full compensation for any required maintenance, sediment removal and disposal of installed Silt Fence.

9.6.2 Super Silt Fence

This item shall be paid at the bid unit price per linear foot of Super Silt Fence placed and accepted by the WVDEP. Payment shall constitute full compensation for all materials, labor, equipment and incidentals necessary to perform the work. Additionally, payment shall constitute full compensation for any required maintenance, sediment removal and disposal of installed Super Silt Fence.

9.6.3 Straw Bales

This item shall be paid at the bid unit price per linear foot of Straw Bales placed and accepted by the WVDEP. Payment shall constitute full compensation for all materials, labor, equipment and incidentals necessary to perform the work. Additionally, payment

shall constitute full compensation for any required maintenance, sediment removal and disposal of installed Straw Bales.

- 9.6.4 Stone Check Dams: This item shall be paid for at the bid unit price per each structure constructed and accepted by the engineer. Payment shall constitute full compensation for all materials, labor, equipment and incidentals necessary to complete the work. Payment shall constitute full compensation for any required maintenance, sediment removal and disposal.
- 9.6.5 <u>Stabilized Construction Entrance:</u> The quantity of work done will be paid at the bid lump sum price for this item, which price and payment shall be full compensation for doing all the work herein prescribed in a workmanlike and acceptable manner; including the furnishing of all labor, materials, tools, equipment, supplies and incidentals necessary to complete the work.

9.7 Pay Item

Item 9.1, "Silt Fence", per linear foot.

Item 9.2, "Super Silt Fence", per linear foot.

Item 9.3, "Straw Bales", per linear foot.

Item 9.4 "Stone Check Dams", Per Each

Item 9.5 "Stabilized Construction Entrance", Per Lump Sum

VEGETATIVE PRACTICES

Except as noted below, stabilization measures shall be initiated as soon as practicable in portions of the site where construction activities have temporarily or permanently ceased, but in no case more than seven days after the construction activity in that portion of the site has permanently ceased.

- Where the initiation of stabilization measures by the fourth day after construction activity temporarily or permanently ceases is precluded by snow cover, stabilization measures shall be initiated as soon as conditions allow.
- Where construction activity will resume on a portion of the site within 21 days from when activities ceased, (e.g., the total time period that construction activity is temporarily halted is less that 21 days) then stabilization measures do not have to be initiated on that portion of the site by the seventh day after construction activities have temporarily ceased.

Areas where the seed has failed to germinate adequately (uniform perennial vegetative cover with a density of 70%) within 30 days after seeding and mulching must be reseeded immediately, or as soon as weather conditions allow.

Diversions must be stabilized prior to becoming functional.

MAINTENANCE & INSPECTION

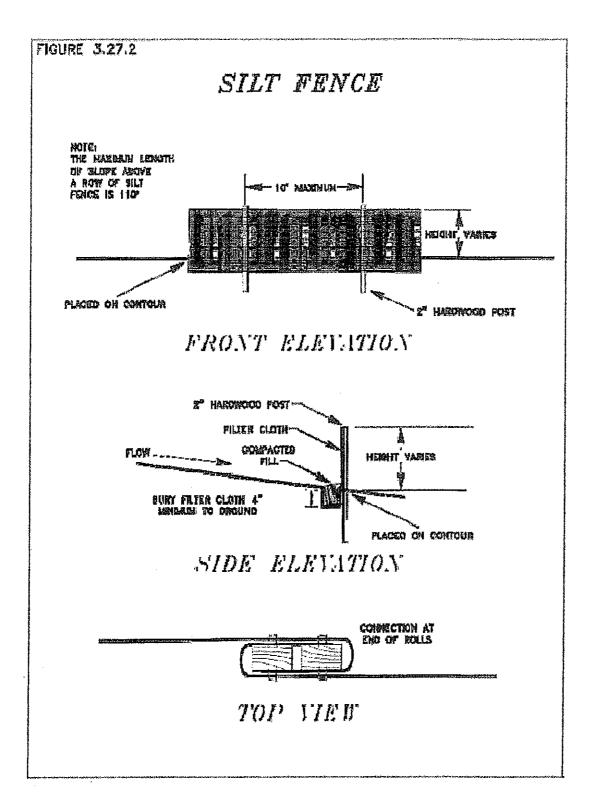
At a minimum, all crossion and sediment controls on the site will be inspected at least once every seven calendar days and within 24 hours after any storm event of greater than 0.5 inches of rain per 24-hour period.

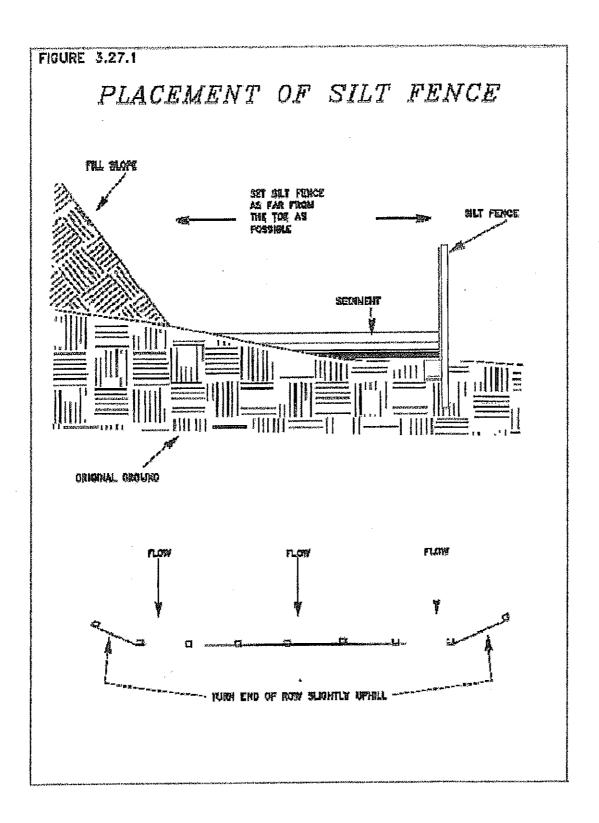
All controls should be cleaned out when sediment reaches one half the sediment capacity of that control.

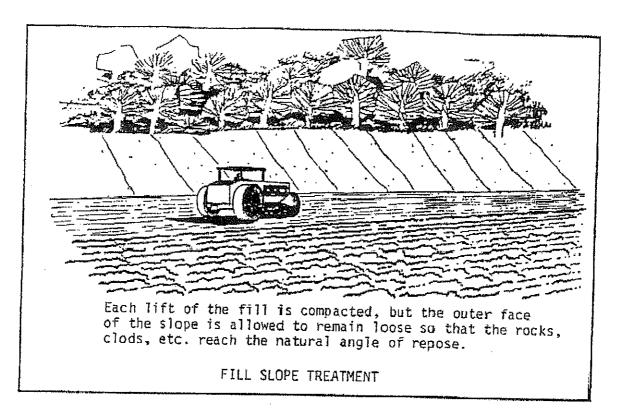
Inspection and maintenance records must be kept onsite.

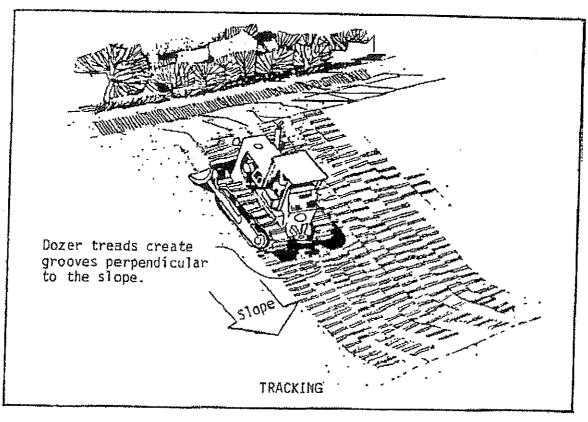
EROSION & SEDIMENT CONTROL CONSTRUCTION SEQUENCE

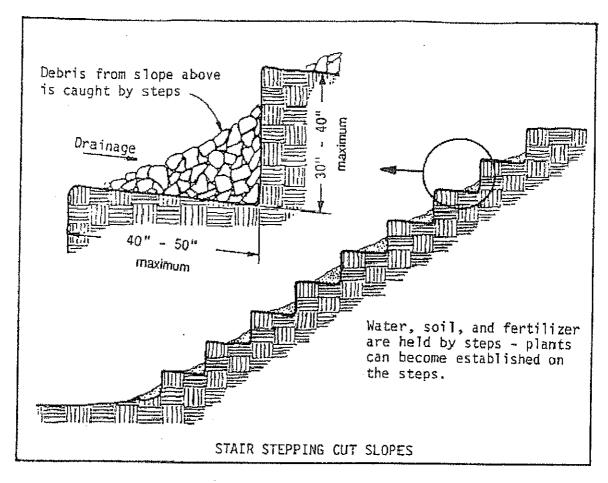
- 1. Install stabilized construction entrance as shown on site plans.
- 2. Install perimeter sediment control devices as shown on site plans.
- 3. Clear and grub site.
- 4. Provide sediment control for any topsoil stockpiles.
- 5. Commence rough grading of site. Continue to maintain and inspect all erosion and sediment controls.
- 6. Install additional erosion and sediment controls as shown on site plans.
- 7. Fine grade site.
- 8. Permanently seed and mulch all disturbed areas within 7 days of reaching final grade.
- 9. Upon completion of project including adequate stabilization, remove all remaining erosion and sediment controls.

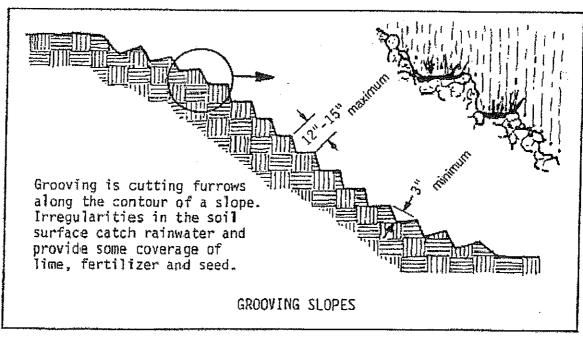


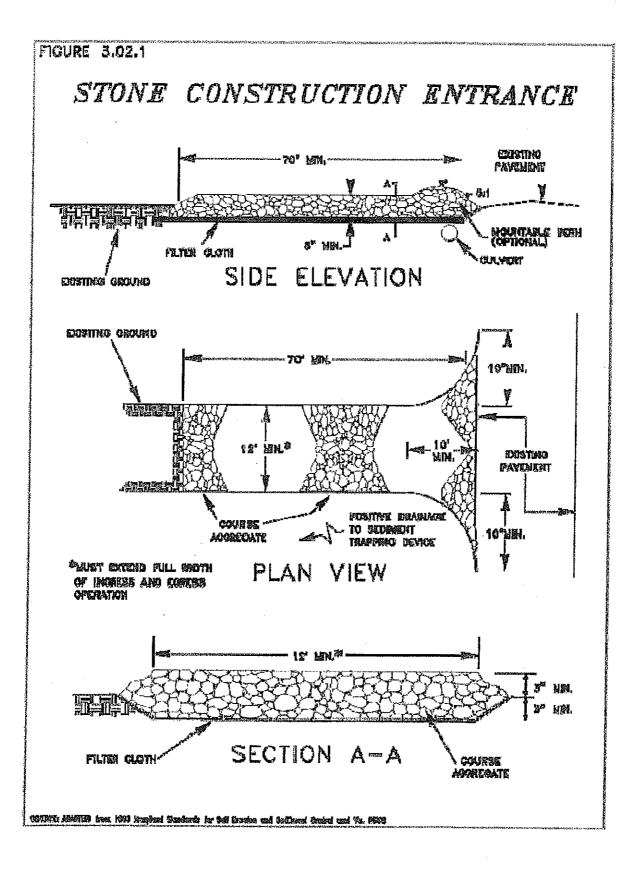


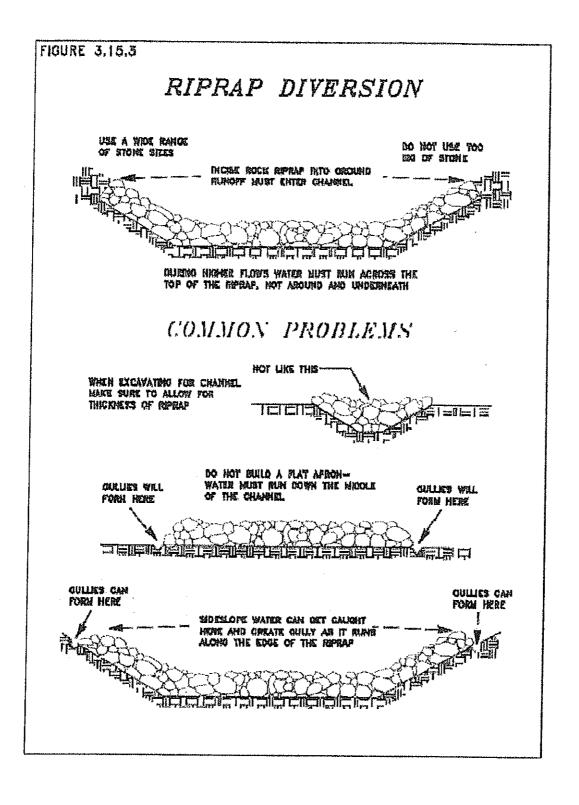












10.0 REVEGETATION

10.1 Description

This work shall cover all operations incidental to the establishment of vegetation within the limits of construction as shown on the Construction Drawings and any other areas as approved by the WVDEP. This work also includes the furnishing and the application of fertilizer, agricultural limestone and mulch and the furnishing and sowing of seed, all in accordance with these Specifications and as designated herein.

No areas outside the limits of construction shall be disturbed without prior approval from the WVDEP in order to ensure that Right of Entry has been obtained.

Any areas outside the limits of construction, disturbed by the Contractor shall be revegetated by the Contractor at no expense to the WVDEP.

10.2 Materials

10.2.1 Fertilizer

The commercial fertilizer to be used shall consist of a 10-20-10 grade of uniform composition and furnished in standard containers. These containers, in accordance with applicable state and federal laws, must be clearly marked with the following information:

- a. Weight
- b. Name of Plant Nutrients
- c. Guaranteed Nutrients Percentages

Fertilizer rates shall be formulated from soil test results. In the absence of soil testing a rate of 1,000 lbs/acre will serve as a preferred minimum. Fertilizer shall be applied immediately to all areas reaching final grade by one of the two following methods:

- a. Apply and incorporate fertilizer during seedbed preparation.
- b. Apply fertilizer in hydroseeding mixture following seedbed preparation

10.2.2 Limestone

The lime to be used will be agricultural grade pulverized limestone containing not less than 75% total carbonates. Fineness will be such that not less than 75% will pass through a #100 sieve and 100% will pass through a #10 sieve.

Lime rates shall be at a rate of 4 tons/acre. If soil testing is performed and indicates additional lime is required, the contractor shall increase the rate of lime only after the approval of the engineer.

Lime should be thoroughly mixed into the top six (6) inches of soil.

10.2.3 Seed Mixtures

The variety of grass and legume seed furnished for the project shall bear a tag, in accordance with applicable state and federal laws, with the following information listed:

- 1. Lot Number
- 2. Seed Producers Name
- 3. Percent Purity
- 4. Percent Germination
- 5. Date of Germination Testing
- 6. Weed Seed Content (should be < 0.25% by weight)

All leguminous seed shall be inoculated with the specified strain of rhizobia which shall be a pure culture of bacteria selected for maximum vitality. No rhizobia shall be used which has passed the expiration date on each package. The inoculant shall be applied at five times the recommended rate except when used in a hydroseeding mixture when the rate will be ten times the recommended rate.

10.2.4 Temporary Seed Mixtures

All stockpiles and other disturbed areas which will require further disturbance in which the additional disturbance will be delayed for a period of three (3) weeks or longer shall be vegetated according to the following guidelines:

Variety of Seed	Spring	Summer	Fall	Winter
	3/15-5/31	5/31-8/15	8/15-10/15	10/15-11/15
	Lbs/acre			
Annual Ryegrass				
(Lolium				
multiflorum)	40		40	
German/Foxtail				
Millet*				
(Setaria italica)		40		
Winter Rye/				
Cereal Rye				
(Secale Cereale)				170

^{*}DO Not Use Japanese Millet

All areas to be temporarily seeded which are to be redisturbed shall be fertilized with 500 lbs/acre of 10-20-10. All areas reaching final grade to be temporarily seeded shall be fertilized according to Section 10.2.1. Lime shall be applied according to Section 10.2.2 and mulch according to Section 10.2.7.

10.2.5 Permanent Seed Mixtures

Permanent vegetation shall be established on all areas reaching final grade or other areas not likely to be destroyed by further construction activities. Any areas that reach final grade between June 15 – August 15 shall be seeded with the appropriate temporary seed mixture according to Section 10.2.4. These areas shall then be reseeded with a permanent seed mixture, without Annual Ryegrass, during the next defined seeding period according to this section. The actual date of permanent seeding will require the WVDEP's approval.

Variety of Seed	Spring 3/1-6/15	Fall 8/15 2/28
	Lbs./acre (1)	
Orchardgrass (Dactylis glomerata)	30	30
Birdsfoot Trefoil (2) (Lotus corniculatus)	15	15
Red Clover (Trifolium pratense)	10	10
Annual Ryegrass (Lolium multiforum)	25	25
Spring Oats	35	0
Or		
Winter Wheat	0	90

- 1. Seed-rate suggested is for Pure Live Seed (PLS) in lbs/acre.
- 2. Herbaceous legumes must be treated with the appropriate bacterium before seeding. On areas which are steeply sloping (Steeper than 1.7:1) or slide prone substitute Crownvetch (Coronilla varia) at 20 lbs./acre for Birdsfoot Trefoil.

10.2.6 Lawn Seed Mixture

Existing lawn/mowed areas disturbed during construction shall be reseeded using the following mix.

Rate	Seed	Minimum	Specifications
Lb/1000 sq. ft.	Variety	% Purity	%Total Germination
0,45	Red Fescue (Pennlawn)	98	85
0.90	Kentucky Bluegrass	85	75
0.70	Merion Bluegrass	90	75
0.20	Annual Ryegrass*	95	85

^{*}Use Annual ryegrass only in mixtures seeded after August 1 and May 15.

10.2.7 Mulch Material

Straw

Straw mulch shall include baled wheat or oats straw or baled grass hay. Straw mulch shall be dry and reasonably free of weed seeds, sticks or other foreign material. Straw mulch shall be applied at a rate of 2 tons/acre. The straw mulch shall be anchored with 100 gallons/acre asphalt emulsion or 750 lbs/acre wood cellulose fiber. No grass hay should be used for mulch on the existing lawn/mowed areas.

Wood Cellulose Fiber

Wood cellulose fiber may be used only on slopes steeper than 2:1. Wood cellulose fiber mulch should not be used alone during the dry summer months or for late fall mulch cover. The rate of application shall be 1,500 lbs/acre. A mulch for use with the hydraulic application of seed, fertilizer and lime shall consist of wood cellulose fiber. It shall be processed in such a manner that it will contain no growth or germination inhibiting factors and shall be dyed green. It shall be manufactured in such a manner that (1) after addition and agitation in slurry tanks with fertilizers, lime, seeds, and water, the fibers in the material will become

uniformly suspended to form a homogeneous slurry and (2) the material, when hydraulically sprayed on the ground, will form a blotter-like ground cover impregnated uniformly with seed, will allow rainfall to percolate to the underlying soil.

The wood cellulose fiber shall be supplied in packages having a gross weight not to exceed 100 pounds. Weight specifications of this material from suppliers, and for all applications, shall refer only to air dry weight of the fiber material. Air dry weight is based on the normal weight standard of the Technical Association of the Pulp and Paper Industry for Wood Cellulose and is considered equivalent to 10 percent moisture. Each package of the cellulose fiber shall be marked by the manufacturer to show the air dry weight content.

10.2.8 Water

Water shall be reasonably free of injurious and other toxic substances harmful to plant life. The source of water is subject to the approval of the WVDEP.

10.2.9 <u>Direct Seeding</u>:

All areas which are to be seeded directly on to coal refuse material shall utilize these specifications Sections 6.0 to 6.6 with the following changes incorporated:

- a. Section 10.2.1, <u>Fertilizer</u> increase fertilizer rate to 1,500 lbs./acre of 10-20-10.
- b. Section 10.2.7, <u>Mulch</u> increase mulch rate to 3 tons/ acre of straw or hay mulch.

10.3 Construction Methods

All revegetation activities shall be conducted immediately following completion of final grade so as to utilize the fine soil material as a seedbed before this material is lost via subsequent rainfall.

On sites where appropriate equipment can operate the seedbed shall be prepared by breaking up surface crusts and loosening the soil material to a minimum of six (6) inches. Discing, harrowing, cultipacking or other acceptable tillage operations may be used to prepare the seedbed. On sites where appropriate equipment cannot operate, the seedbed shall be prepared by "tracking in" with a dozer or scarifying by other approved methods. Rocks larger than six (6) inches in diameter, trash, weeds and other debris that will interfere with seeding or maintenance shall be removed or disposed of as approved by the WVDEP. Seedbed preparation shall be suspended when soil moisture conditions are not suitable for the preparation of a satisfactory seedbed as determined by WVDEP. All yard/mowed areas shall be hand raked with all rocks 2" diameter and larger removed.

Seedbed preparation and seeding shall take place progressively as various regraded areas are brought to final grade.

All seeding operations shall be performed immediately following seedbed preparation in such a manner that the seed is applied in the specified quantities uniformly on the designated areas.

Seed application shall consist of approved hydroseeding methods where feasible. Any seed left in hydroseeder overnight shall be reinoculated before that seed shall be applied. Other methods of seed application may be utilized for site-specific reasons when approved by the WVDEP.

Any area failing to establish a vegetative stand due to weather or adverse soil conditions shall be reseeded, relimed, refertilized and remulched as approved by the WVDEP.

The Contractor shall maintain all seeded areas until final acceptance of the project. All areas shall be protected from any further equipment traffic and any damaged areas shall be repaired and reseeded. Maintaining seeded areas shall consist of watering, refilling, refertilizing, reliming, reseeding and remulching erosion gullies and all bare areas.

A second and third seeding will be applied as needed, or as approved by the WVDEP.

Second Step Seeding

The second step seeding will take place during the first defined seeding period following the initial seeding. No payment shall be made for second step seeding, this work is part of the contract if completed before the final inspection, or shall be considered warranty if completed after the final inspection. The following shall be used as a guide for second step application:

- a. For areas with less than a 50 percent stand or subject to severe erosion, apply the complete amount of seed, fertilizer, lime and mulch as specified.
- b. For areas with over 50 percent stand apply one half the original fertilizer, lime and seed. If erosion is a problem, apply one half the original mulch specified in Section 10.2.9.

Third Step Seeding

The third step seeding shall consist of spot applications on areas not showing a satisfactory stand. The seeding shall take place at the next defined seeding period following the second step application. The quantity of material to be used shall be determined on the same basis as for the second step application.

Second and third step seeding shall be considered part of the contract if completed before the final inspection or considered warranty if completed after the final inspection.

10.4 Method of Measurement

The method of measurement for revegetation will be to the acre field measured and rounded to the nearest whole acre. Payment to include all temporary seeding, lime, fertilizer, seed and mulch for the first seeding only. Subsequent seeding will not be measured or paid for but will be considered incidental to initial seeding.

The Contractor shall be paid only for those areas disturbed and revegetated during operations necessary for completion of the work. The quantity shall not include areas disturbed for storage facilities and staging areas unless prior approval was obtained from the WVDEP. No payment shall be made for any seeding conducted after the final inspection; this work is considered warranty.

10.5 Basis of Payment

The quantities of work done will be paid at the contract unit price bid as listed below, which price and payment shall be full compensation for doing all the work herein prescribed in a workmanlike and acceptable manner; including the furnishing of all labor, materials, tools, equipment, supplies, and incidentals necessary to complete the work.

No payment will be made for seeding after the initial seeding. All work done after initial seeding will be done as maintenance of a completed phase of work or as warranty work after the final inspection.

10.6 Pay Items

Item 10.1 "Revegetation", per acre

11.0 Gabion Baskets

11.1 Description

The Contractors shall excavate the small landslide and construct the proposed Gabion wall. The Wall will consist of a single row of 3' x 3' x 6' Gabion Baskets with a total length of the 36 feet. The excavate slide area will be backfilled with riprap materials as shown on drawing D-6 and covered with 6" of soil.

11.2 Material

Material requirements shall conform to as indicated on drawing D-6 "Gabion Wall Details". Rock fill for gabion baskets shall conform to the requirement of WVDOT Type D Riprap. The rock fill shown on the details shall consist of WVDOT Type D Riprap.

11.3 Method of Measurement

The method of measurement for the "Gabion Baskets" shall be per Lump Sum. This item includes all excavation and disposal of slide materials, the Gabion Baskets, the Rip Rap materials for fill of Gabions and the backfill of the slope area, Soil cover, gravel base, labor and equipment for a satisfactory installation.

11.4 Basis Of Payment

The basis of payment for this item shall be on a Lump Sum basis

11.5 Pay Items

Item 11.1, "Gabion Basket", Lump Sum

MANDATORY PRE-BID SIGN-IN ATTENDANCE SHEET

PRINT LEGIBLY

RFQ # : 15049 Project: Mallony Reruse Pile	Bid Date: 6/29/10 Pre-Bid Date: 5/27/10
Name: WR Hocele Company: Angule Paulag Address: POBOX 1290 PINEVILLE WULLY874	Name: Robert Barnes Company: Barnes Exc. Inc. Address: P.O. Box 13384 Sissanville WV. 25360
Phone #: 304 732 83 03 Fax # : 304 282 2855 Email :	Phone#: 304-984-1725 Fax #: 304-984-0074 Email: BarnesExc. DAOL. Com
Name: ANN WAROWRLL Company: TEASTRRN ARROW Address: PO Box 4108 CHARLESTON, WY	Name: SEORGE FRESHOUR Company: Fagle EXAMPONIAN Address: P.O. Box 2/8 KENNA, WV 25248
Phone #: 304-414-0255 Fax # : 0 256 Email :	Phone# : (304) 372-4378 Fax # : (304) 372-4378 Email : 70006
Name: DENNIS C, ELBON Company: Cowfirt UP INC Address: Po Box 243 SIMPSON WV 26435	Name: GALY long Company: M. Court & Son Const Address: 2790 Centralia Rd Sutton WU 36601
Phone #: 304-7.39-4397 Fax #: 304-739-4401 Email: DC6_ COWGIRLOT & CARTHLIAK, NET	Phone# : 304 765-5288 Fax # : 304 765-5293 Email :
Name: Tesseh Rupe. Company: Levelland Develope Address: po Box 975 Sophimul 15921	Name: David H. Rowman's Company: Sicch Mountain Co. Address: 511 50th Street Chys WU 25304
Phone #: 304-573-9072 Fax # : Email :	Phone#: 304 975 0753 Fax #: 975 9730 Email: Jody Mye Aol

MANDATORY PRE-BID SIGN-IN ATTENDANCE SHEET

PRINT LEGIBLY

	13049 M1/1 Page 21		d Date: 6/29/10 id Date: 5/27/10
Project:	MAllory Refuse Pile	rre-b	id Date: 3/2// /0
Company:	GES BOXEN ASPEN CORP. 2400 RITTER DR. DANIELS WY 25832	Company:	Thexton Const Co true Po Box 13279 Charlosta 23360
Fax # :	304-763-4513 304-763-4591 160/en@aspen-golf.com		364 984 2294 304 984 2334
Company:	Randy Conferter Corpenter Reclaration PO BOX 13015 5:5500 villa, w v 25760	Name :. Company: Address:	
Fax # :	304-984-1115 984-2770 Rcarpensos dud. com	Phone# : Fax # : Email :	
Company:	Chris HARMAN Selco Construction Somm 109 INDIAN HILLS CEDAR DLUFF VA.	Company:	JOR Wiseman Wiseman Excavating Liberty WV 25124
Phone #: Fax # : Email :	276-880-2300. 304-732-7660. UMWW. Selco Construct-Com.	Fax # :	304-586-3736 304-586-3789
Name : Company: Address:	Brian Hoard Breakoway Const. 1075 Old Turnpikeld Sutton W Zlowel	Name : Company: Address:	
Phone #: Fax # : Email :	304-765-5187 304-768-5137	Phone# : Fax # : Email :	