DAMAGE SURVEY REPORT (DSR) Emergency Watershed Protection Program – Recovery

Section 1A		IRCS Entry Only	<u>/</u> E S	NO
Date of Report:	A	approved: Y	ES	NO NO om Section 4)
DSR Number: Project Number:	L		Area: YE	S NO
Section 1B Spons	sor Inform	nation		
Sponsor Name:				
Address:				
City/State/Zip:				
Telephone Number: Fax:				
Section 1C Site Loc	ation Info	rmation		
County: State:	Congre	essional District:		
Latitude: Longitude:	Section: _	Towr	nship:	Range:
UTM Coordinates:				
Drainage Name:	Reach:			
Damage Description:				
Section 1D Sit				
All answers in this Section must be YES in order to be eligible for E	1			D 1
Site Eligibility Damage was a result of a natural disaster?*	YES	NO		Remarks
Recovery measures would be for runoff retardation or soil erosion prevention?*				
Threat to life and/or property?*				
Event caused a sudden impairment in the watershed?*				
Imminent threat was created by this event?**				
For structural repairs, not repaired twice within ten years?**				
Site Defensibility Economic, environmental, and social documentation adequate to				
warrant action (Go to pages 3, 4, 5 and 6 ***)				
Proposed action technically viable? (Go to Page 9 ***)				
Have all the appropriate steps been taken to ensure that all segments program and its possible effects? YES NO	of the affe	ected population	have been	informed of the EWP
Comments:				

^{*} Statutory

^{**} Regulation

^{***} DSR Pages 3 through 5 are required to support the decisions recorded on this summary page. If additional space is needed on this or any other page in this form, add appropriate pages.

	Section 1E Propo	sed Action
Describe the prefer	red alternative from Findings: Section 5 A:	
Total installation co	ost identified in this DSR: Section 3: \$	
	Section 1F NRCS State Office	e Review and Approval
Reviewed By:	State EWP Program Manager	Date Reviewed:
Annroved By:		Date Approved:

State Conservationist

DSR NO: _____

PRIVACY ACT AND PUBLIC BURDEN STATEMENT

NOTE: The following statement is made in accordance with the Privacy Act of 1974, (5 U.S.C. 552a) and the Paperwork Reduction Act of 1995, as amended. The authority for requesting the following information is 7 CFR 624 (EWP) and Section 216 of the Flood Control Act of 1950, Public Law 81-516, 33 U.S.C. 701b-1; and Section 403 of the Agricultural Credit Act of 1978, Public Law 95334, as amended by Section 382, of the Federal Agriculture Improvement and Reform Act of 1996, Public Law 104-127, 16 U.S.C. 2203. EWP, through local sponsors, provides emergency measures for runoff retardation and erosion control to areas where a sudden impairment of a watershed threatens life or property. The Secretary of Agriculture has delegated the administration of EWP to the Chief or NRCS on state, tribal and private lands.

Signing this form indicates the sponsor concurs and agrees to provide the regional cost-share to implement the EWP recovery measure(s) determined eligible by NRCS under the terms and conditions of the program authority. Failure to provide a signature will result in the applicant being unable to apply for or receive a grant the applicable program authorities. Once signed by the sponsor, this information may not be provided to other agencies. IRS, Department of Justice, or other State or Federal Law Enforcement agencies, and in response to a court or administrative tribunal.

The provisions of criminal and civil fraud statutes, including 18 U.S.C. 286, 287, 371, 641, 651, 1001; 15 U.S.C. 714m; and 31 U.S.C. 3729 may also be applicable to the information provided. According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0578-0030. The time required to complete this information collection is estimated to average 117/1.96 minutes/hours per response, including the time for reviewing instructions, searching existing data sources, field reviews, gathering, designing, and maintaining the data needed, and completing and reviewing the collection information.

USDA NONDISCRIMINATION STATEMENT

"The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, age, disability, and where applicable, sex, martial status, familial status, parental status, religion, sexual orientation, genetic information, political beliefs, reprisal, or because all or part of an individual's income is derived from any public assistance program. (Not all prohibited bases apply to all programms.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at (202)720-2600 (vocie and TDD). To file a complaint of discrimination, write to USDA, Director, Office of Civil Rights, 1400 Independence Avenue, SW., Washington, DC 20250-9410, or call (800)795-3272 (voice) or (202) 720-6382 (TDD). USDA is an equal opportunity provider and employer.

Civil Rights Statement of Assurance

The program or activities conducted under this agreement will be in compliance with the nondiscrimination provisions contained in the Titles VI and VII of the Civil Rights Act of 1964, as amended; the Civil Rights Restoration Act of 1987 (Public Law 100-259); and other nondiscrimination statutes: namely, Section 504 of the Rehabilitation Act of 1973, Title IX of the Amendments of 1972, the Age Discrimination Act of 1975, and the Americans with Disabilities Act of 1990. They will also be in accordance with regulations of the Secretary of Agriculture (7 CFR 15, 15a, and 15b), which provide that no person in the United States shall on the grounds of race, color, national origin, gender, religion, age or disability, be excluded from participation in, be denied the benefits of, or otherwise subjected to discrimination under any program or activity receiving Federal financial assistance from the U.S. Department of Agriculture or any agency thereof.

Section 2 Environmental Evaluation

2A Resource	2B Existing	2C Alternative Designation		
Concerns	2B Existing Condition	Proposed Action	No Action	Alternative
		2	D Effects of Alternativ	es
Soil		_		
Water				
Air				
Plant				
Animal		l e		
Other				
Julei				

DSR NO:	
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Section 2E Special Environmental Concerns

	Section 2	E Special Environme		
Resource	Existing Condition	Alternatives and Effects		
Consideration		Proposed Action	No Action	Alternative
		1		
Clean Water Act				
Waters of the U.S.				
,, are 2 are 2.5.				
Coastal Zone				
Management Areas				
Management Areas				
C 1D C				
Coral Reefs				
G 1. 1.D				
Cultural Resources				
Endangered and				
Threatened Species				
Environmental				
Justice				
Essential Fish				
Habitat				
Fish and Wildlife				
Coordination				
Floodplain				
Management				
Invasive Species				
in a species				
Migratory Birds				
Tilgratory 211 as				
Natural Areas				
Natural Arcas				
Prime and Unique				
Farmlands				
raillianus				
Dinarian Arass				
Riparian Areas				
Carria Da d				
Scenic Beauty				
Wetlands				
Wild and Scenic				
Rivers				
1(1)(1)				

DSR NO:		

Section 2F Economic

This section must be completed by each alternative considered (attach additional sheets as necessary).

		as necessary).
Future Damages (\$)	Damage Factor (%)	Near Term Damag
		Reduction
Total Near Term Day	mage Reduction \$	
ramage Reduction milius Co.	st Holli Section 3)	
		Future Damages (\$) Damage Factor (%) Total Near Term Damage Reduction \$ Damage Reduction 3)

Completed By:	Date:	
---------------	-------	--

Section 2G Social Consideration This section must be completed by each alternative considered

(attach additional sheets as necessary).

	YES	NO	Remarks
Has there been a loss of life as a result of the watershed impairment?			
Is there the potential for loss of life due to damages from the watershed impairment?			
Has access to a hospital or medical facility been impaired by watershed impairment?			
Has the community as a whole been adversely impacted by the watershed impairment (life and property ceases to operate in a normal capacity)			
Is there a lack or has there been a reduction of public safety due to watershed impairment?			
Completed By:		Date:	

Completed By:	Date:	

DSR NO:	
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Section 2H Group Representation and Disability Information

This section is completed only for the preferred alternative selected.

Group Representation	Number
American Indian/Alaska Native Female Hispanic	
American Indian/Alaska Native Female Non-Hispanic	
American Indian/Alaska Native Male Hispanic	
American Indian/Alaska Native Male Non-Hispanic	
Asian Female Hispanic	
Asian Female Non-Hispanic	
Asian Male Hispanic	
Asian Male Non-Hispanic	
Black or African American Female Hispanic	
Black or African American Female Non-Hispanic	
Black or African American Male Hispanic	
Black or African American Male Non-Hispanic	
Hawaiian Native/Pacific Islander Female Hispanic	
Hawaiian Native/Pacific Islander Female Non-Hispanic	
Hawaiian Native/Pacific Islander Male Hispanic	
Hawaiian Native/Pacific Islander Male Non-Hispanic	
White Female Hispanic	
White Female Non-Hispanic	
White Male Hispanic	
White Male Non-Hispanic	
Total Group	
Census tract(s)	
Completed By:	Date:

DSR NO:	
Section 2I. Required consultation or coordination between the lead agency and/or the RFO and another governmental unincluding tribes:	ınit
Easements, permissions, or permits:	
Mitigation Description:	
Agencies, persons, and references consulted, or to be consulted:	
rigoriotos, portonio, and references comparted, or to be comparted.	



UNITED STATES DEPARTMENT OF AGRICULTURE

NY-NRCS-PDM-20-8A (NY Supplement to DSR)

Section 3 - ENGINEERING SITE EVALUATION

Completed by:	DSR No: Date:					
Name	Date.					
Section 3A						
Locate and mark the beginning and end of the project reach at stable banks.						
Length of project reach:						
How will the bank stabilization be keyed back into the stable bank sections? Include this						
Locate a benchmark and grade control. Determine the average slope of the reach.						
Determine the typical cross section upstream and down.						
Determine the height of the low bank and the height of structural protection need	ed.					
Look for opportunities to use vegetation rather than structural measures.						
Identify if a sill/weir is required in the channel to stabilize the channel bottom.						
How many sills/weirs are required?	What spacing?					
What depth of key is required in the toe of the slope? 3'	2'					
Determine if a plunge pool is required. Size the plunge pool. W:	L:	D:				
Determine the slope of the bank needed in the protected area.						
Determine if geotextile fabric is needed behind the structure.						
Determine estimated quantities of excavation, fill, clearing, and debris removal for	or section B.					
Determine the needed pollution control and dewatering practices.						
Determine the need for traffic control or road closure.						
Make a plan view sketch that includes the following: The alignment of the streambank to be repaired and the protected structure. The existing stream thalweg, north, the bench mark, and apparent land Identify items not to be disturbed during construction (e.g., trees, mailbured Identify debris to be removed. Locate all utilities. Identify spoil/staging area. Identify construction limits and access.	downers.					

Take and label photographs.

	DSR NO:		
	Section 3 Engineering Cost I	Estimate	
Completed By:		Date:	

This section must be completed by each alternative considered (attach additional sheets as necessary).

Proposed Recovery Measure (including mitigation)	Quantity	Units	Unit Cost (\$)	Amount (\$)
	Total Inst	L tallation Cost (Ent	er in Section 1F)\$	

Unit Abbreviations:

AC Acre

CY Cubic Yard

EA Each

HR Hour

LS Lump Sum

SF Square Feet

SY Square Yard

HR Ton

LF Linear Feet

Other (Specifiy)

DSR NO:

Section 4 NRCS EWP Funding Priority

Complete the following section to compute the funding priority for the recovery measures in this application (see instructions on page 10).

Priority Ranking Criteria	Yes	No		Ranking Number Plus Modifer
1. Is this an exigency situation?				
2. Is this a site where there is serious, but not immediate threat to human life?				
3. Is this a site where buildings, utilities, or other important infrastructure components are threatened?				
4. Is this site a funding priority established by the NRCS Chief?				
The following are modifiers for the above criteria			Modifier	
a. Will the proposed action or alternatives protect or conserve federally-listed threatened and endangered species or critical habitat?	_	_		
b. Will the proposed action or alternatives protect or conserve cultural sites listed on the National Register of Historic Places?				
c. Will the proposed action or alternatives protect or conserve prime or important farmland?				
d. Will the proposed action or alternatives protect or conserve existing wetlands?				
e. Will the proposed action or alternatives maintain or improve current water quality conditions?				
f. Will the proposed action or alternatives protect or conserve unique habitat, including but not limited to, areas inhabited by State-listed species, fish and wildlife management area, or State identified sensitive habitats?				

	Enter pri	ority con	nputation	in	Section	1A.	NRCS	Entry	. Fu	nding	priority	v number.
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DSR NO:

Section 5A Findings

Finding: Indicate the preferred alternative fro	om Section 2 (Enter to Section 1E):
	e alternatives on the Environmental Economic, Social; the Special Environmental (40 CFR 1508.27). I find for the reasons stated below, that the preferred alternative:
Has been sufficiently analyzed in t Chapter Chapter Chapter Chapter Chapter Chapter Chapter	the EWP PEIS (reference all that apply)
May require the preparation of an of The action will be referred to the NRCS	environmental assessment or environmental impact statement. State Office on this date:
NRCS representative of the DSR team:	
Name/Title:	Date:
Section 5B Comments:	
Section 5C Sponsor Concurrence:	
Sponsor Representative	
Title:	Date:
Section 6 Attachments: A. Location Map B. Site Plan or Sketches	

- B. Site Plan or SketchesC. Other (explain)

INSTRUCTIONS FOR COMPLETING THE NRCS-PDM-20, DSR

	Explanation of Requested Item	Who Completes
Section 1	Enter Site Sponsor, Location, Evaluation, Selected Alternative, and	NRCS completes
	Reviewed and Approval Signatures.	with voluntary
1A	Enter the Date, DSR Number, Project Number. For NRCS only enter	assistance from
	Eligible Yes/No, Approved Yes/No, Funding Priority Number, and	Sponsor except for
	Limited Resource Area Yes/No.	NRCS only portion
1B	Enter Sponsor Name, Address, Telephone, Fax	of Section 1A.
1C	Enter site location County, State, Congressional District, Latitude,	
	Longitude, Section, Township, Range, UTM Coordinates, Drainage	
	Name, Reach within drainage, and Damage Description.	
1D	Enter Yes/No and any Remarks for the Site Evaluation information.	
	Any No response means the site is not eligible for EWP assistance	
	and no further information is necessary to complete the DSR. (See	
	NEWPPM 390-502.03 and 390-502-04)	
	Enter Yes/No regarding whether the affected public has been	
	informed of the EWP program.	
1E	Enter the proposed treatment and the cost of installation.	NRCS only.
1F	NRCS Review and Approval.	

	Explanation of Requested Item	Who Completes
Section 2	Use available natural resource, economic, and social, information, including the EWP Programmatic Environmental Impact Statement	NRCS completes with voluntary
	(PEIS), to <u>briefly</u> describe the effects of the alternatives to the proposed action including the "no action" alternative.	assistance from Sponsor.
	Typically, the proposed action and no action are the alternatives considered for EWP recovery measures due to the focus on repairing or preventing damages within a watershed. However, in cases where additional alternatives are considered, include all pertinent	
	information to adequately address the additional alternatives (e.g., proposed action would be bio-engineering for bank stabilization, no action alternative, and an additional alternative may be riprap for bank stabilization).	
	Do not leave blanks where a consideration is not applicable, use NA to indicate the factor was considered but not applicable for the alternative.	
2A	List all resource concerns which are relevant to the area of the proposed action and alternatives. Refer to National Bulletin 450-5-8 TCH-COMPLETING AND FILING MEASUREMENT UNITS FOR RESOURCE CONCERNS IN THE FIELD OFFICE TECHNICAL GUIDE (FOTG). Note: the affected area may extend	
	beyond the construction foot print (ex. where water quality or water rights are affected downstream of the site).	
2B	Provide a brief description of the present condition of each resource concern listed in 2A. Quantify conditions where possible. Reference accompanying photo documentation.	
2C	Briefly summarize the practice/system of practices being proposed, as well as the "no action" alternative, and any other alternatives being considered. The "no action" alternative is the predicted future condition if no action is taken.	
2D	Document the efforts of the proposed action and alternatives for the considerations listed in 2A. Reference applicable quality criteria, information in the CPPE, and quantify effects whenever possible. Consider both long-term and short-term effects. Consider any effects which may be individually minor but cumulatively significant at a larger scale or over an extended time period. Clearly define the differences between proposed action, no action, and the other alternatives.	

2E	Enter Special Environmental Concerns for Clean Water Act Waters of the U.S., Coastal Zone Management Areas, Coral Reefs, Cultural Resources, Endangered and Threatened Species, Environmental Justice, Essential Fish Habitat, Fish and Wildlife Coordination, Floodplain Management, Invasive Species, Migratory Birds, Natural Areas, Prime and Unique Farmlands, Riparian Areas, Scenic Beauty, Wetlands, and Wild and Scenic Rivers for each alternative considered. In the case where the selected alternative from Section 5A impacts a Special Environmental Concern, additional information, coordination, permitting or mitigation may be required and adequate documentation should be prepared and attached to the DSR to identify how NRCS or the Sponsor addressed the concern	
2F	Identify Property Protected both private and public, business losses and other economic impacts considered for each alternative. Enter the dollar value of the potential future damages if no action is taken in the Future Damage (5) column. This would be the estimate of the value lost if the EWP recovery measure is not installed. Use the repair cost or damage dollar method to determine the estimate of future damages. The repair cost method uses the costs to return the impaired property, good, or services based on their original pre-event condition or value. The damage dollar method uses an estimate of the future damage to value (e.g. if the structure is condemned, then enter the value of the structure). Enter the estimated amount based upon existing information or information furnished by the sponsor, contractors or others with specific knowledge for recovery from natural disasters for each alternative considered. Often market values for properties or services can be obtained from personnel at the local county/parish tax assessment office. The DSI team needs to determine the Damage Factor (%) which is a coefficient that indicates the degree of damage reduction to a property that is attributed to the effect of the proposed EWP recovery measures. Use an appropriate estimate of how much of the damage the EWP recovery measure will avoid for the alternative being considered. If the recovery measures from a single site will prevent 100 percent of the damage use 100 percent. The Near Term Damage Reduction is the Future Damage (\$) times the Damage Factor (%). Sum the Near Term Damage Reduction. Enter the Net Benefit which is computed by subtracting the Cost from section 3 from the total near term damage reduction. The economic section must be completed for each alternative considered. Attach additional sheets as necessary.	
2G	Enter information to describe the potential social impacts and considerations for each alternative. Answer Yes or No and any remarks necessary to adequately address each question. The information may be obtained through interviews with community leaders, government officials or sponsors. Factors such as road closures, loss of water, electricity, access to emergency services are used when answering whether the community as a whole has been impaired. This information is part of the environmental evaluation portion of the DSR but may be pertinent in Section 4 regarding priorities. The Social Considerations Section must be completed for each alternative considered. Attach additional sheets as necessary.	
2Н	Enter the Group Representation Information for the preferred alternative. Use the most recent census tract information based upon where the EWP recovery measures are located.	Sponsor completes.

2I	Enter whether easement, permissions, or permits, and mitigation will	NRCS completes
21	require consultation or coordination for the selected alternative (e.g.,	with voluntary
	Clean Water Act section 404 permit, Endangered Species Act	assistance from
	section 10 permits, and any State or county permits or requirements).	Sponsor.
	Describe mitigation to be applied that will offset any adverse	1
	impacts and attach any documentation from other agencies regarding	
	mitigation requirements.	
	Employed on of Degree and Marie	Who Commisted
Section 3	Explanation of Requested Item Enter Proposed Recovery Measure(s) including Quantity, Units, Unit	Who Completes
Section 5	Cost, and Total Amount Cost.	NRCS completes with voluntary
	Enter sum of all Proposed Recovery Measure Costs to calculate	assistance from
	Total Costs. Enter Total Installation Costs in Section 1F.	Sponsor.
	The Engineering Cost Estimate must be completed for each	Бронзог.
	alternative considered. Attach additional sheets as necessary.	
	<u>'</u>	
	Explanation of Requested Item	Who Completes
Section 4	This section is used to determine the Funding Priority for the	NRCS completes
	preferred alternative and sequence for initiating recovery measures.	with voluntary
	Enter Yes/No for questions 1 through 4 and enter the number	assistance from
	(exigency 1, serious threat to human life 2, etc.) in the right column,	Sponsor.
	Ranking Number Plus Modifier. Complete the Modifier portion by	
	placing the alphabetic indicator a. through f. in the Modifier column.	
	Complete the Ranking Number Plus Modifier column by entering	
	the alphabetic indictor(s) that exists within the site. The number of	
	the site designates the priority (e.g., a site with a designation of 2 is a	
	higher priority that a site with a designation of 3). The modifiers	
	increase the priority for the same numeric site (e.g., a site with a	
	designation of 1a, would be a higher priority than a site with a	
	designation of 1, a site with a designation of 2bc would be a higher	
	priority than a site designated as 2b). Enter the Funding Priority in Section 1A.	
	Section 1A.	
	Explanation of Requested Item	Who Completes
Section 5	Enter the Findings, Rationale Supporting Findings, NRCS	NRCS completes.
	Representative signature and Comments, and Concurrence signature	
	by the Sponsor(s).	
5A	Indicate the preferred alternative and check the applicable finding	
	being made. The NRCS Representative signs indicating the Finding	
	selected. If the proposed action was adequately addressed in the	
5 D	PEIS, check all appropriate chapter paragraphs.	
5B	Enter any additional Comments.	G (-)
5C	Sponsor(s) review and concurrence.	Sponsor(s) signature.
G 40 C	Include attachments for location map, site sketch or plan and other	NRCS completes
Section 6		
Section 6	information as needed.	with voluntary
Section 6		

Sponsor.

2011 Schoharie Cou	inty EWP			By:	W. VanDeValk
Engineer's Constru	ction Cost Estimate			Date:	2/7/2012
DSR No.:	S TC 02		Spansor	Town of G	ilhaa
	Dave Brown Mtn. Road Site 2	- T-wall onti		TOWITOIG	liboa
One Description.	Dave Brown With. Road Site 2	- 1-wan opti	OII		
Item	Description	Unit cost	Unit	Quantity	Item cost
Mobilization/Demobilization	Description	\$5,000.00		1	\$5,000
Rip rap	Heavy stone (in place)	\$67.00		0	\$0
Тартар	riouvy ctorio (iii piaco)	\$100.00		0	\$0
	Medium stone (in place)	\$60.00		0	\$0
	incalam ctone (in place)	\$90.00		0	\$0
	Dumped rock (in place)	\$53.00		0	\$0
	Bumped rock (in place)	\$80.00		0	\$0
	Pinning		ft wall/# rock layers	0	\$0
Gravel	2" minus screened (in place)	\$14.00		0	\$0
Giavei	#2 Stone (in place)	\$22.00		0	\$0
		\$15.00		0	\$0
	Cobbles (in place)			0	\$0 \$0
Cantavtila	Bankrun (in place)	\$12.00			
Geotextile		\$0.15		4800	\$720
Geo-grid	-	\$0.30		0	\$0
Trucking	Page 1	\$85.00		40	\$3,400
Excavator	large	\$170.00		0	\$0
	mid-size	\$140.00		40	\$5,600
Backhoe		\$120.00		0	\$0
Dozer	large	\$150.00		0	\$0
	mid-size	\$130.00		0	\$0
Labor	skilled	\$50.00		40	\$2,000
	unskilled	\$35.00		40	\$1,400
Willow stakes	w/o labor		stake	300	\$600
Wattles & Fascines	w/o labor	\$9.00	lin ft	0	\$0
Brush layering	w/o labor	\$18.00	bundle	0	\$0
Brush mattress	w/o labor	\$3.00	sq ft	0	\$0
Silt fence	installed & maintained	\$5.00	lin ft	0	\$0
Straw blanket	100 sq yard/roll	\$175.00	roll	0	\$0
Geo-jute	65 sq yard/roll	\$120.00		0	\$0
Dewatering	small pump (<4"), incl. setup	\$3,000.00		6	\$18,000
9	mid-size (6") incl. setup	\$5,000.00		0	\$0
	large (8-12") incl. setup	\$8,000.00		0	\$0
Seeding & Mulching	ia.ge (e :=) iiiii eetap	\$2,000.00		0.5	\$1,000
occuring a maioriming		\$0.05		0	\$0
		ψ0.00	-	U	V
Overhead and Profit, %	20		Overhea	d and Profit	\$7,544
OTOMOGRAM TOM, 70	20		Subtotal, excluding W		\$45,264
			Juniotal, Oxoldanig VV	an Oyutunia	Ψτ0,20τ
Wall System costs (in place	e; wall system only; includes	OH&PI			
Sheet Piling	Under 1000 sq ft	\$35.00	sa ft	0	\$0
Chock i ming	Over 1000 sq ft	\$30.00		0	
Rip rap	6' wall stacked/pinned	\$30.00		0	
ι την ταν	8' wall stacked/pinned	\$33.00		0	
	10' wall stacked/pinned	\$30.00		0	
	12' wall stacked/pinned	\$30.00		0	\$0
Dragat concrets					
Precast concrete	T-wall system	\$35.00		3000	\$105,000
Dainfarand and	Recon wall system	\$35.00		0	\$0
Reinforced earth	w/geogrid & fill (15' depth)	\$22.00	sqπ	12500	\$275,000
				Subtotal	
Contingency %	20		C	ontingency	\$85,053
Additional %	0			Additional	\$0
			Tot	al Estimate	\$510,317

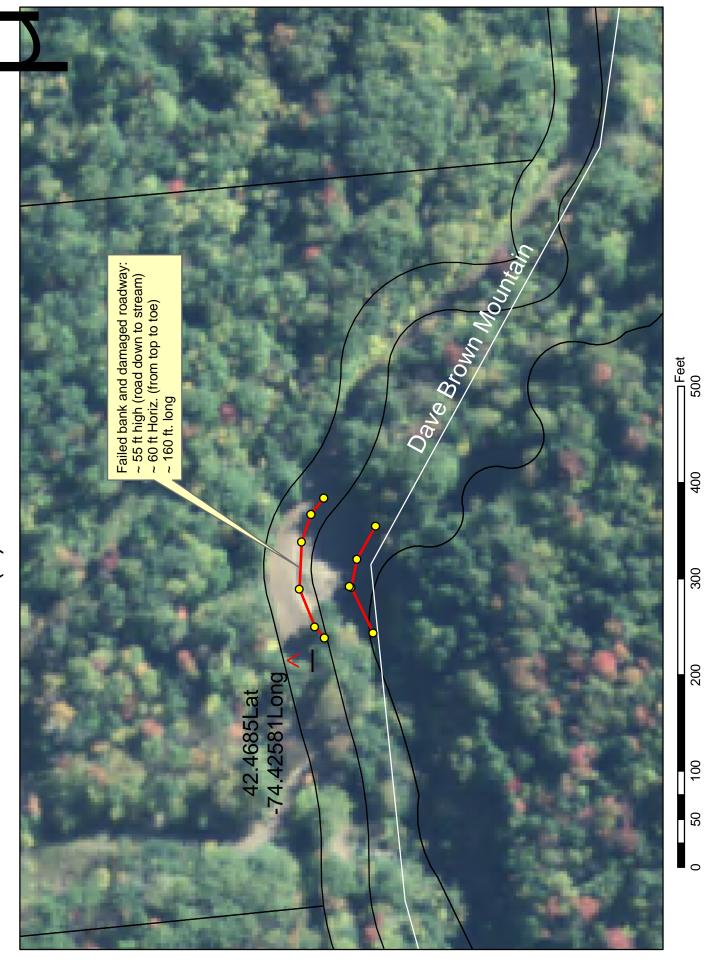
Conversions for est	timating quantities					
Conversions for est	imating quantities		A BISHSTA		MIGHELES SUPPLEMENT	
Assume for each 100' wall, w	ill need to dewater for 3 days			391		
Estimating sloped rip rap p	rotection					
Depth of key/toe (2 or 3')		ft	Quantity in key/toe	12	(based on trapezoidal	key)
Thickness of rip rap	2.5	ft				
Elevation difference	length of slope for 1.5:1 (ft)	quantitiy/ft	@ 1 5:1	lin footage	total rock	
4	7.21		cy/ft	0		су
5		10-10-10-10-10-10-10-10-10-10-10-10-10-1	cy/ft	0		су
6			cy/ft	0		су
7	12.62		cy/ft	0		су
8		700000	cy/ft	0		су
9			cy/ft	0	0	
10	18.03		cy/ft	0		су
11	19.83		cy/ft	0		су
12	21.63		cy/ft	0		су
Elevation difference	length of slope for 2;1	quantitiy/ft	@ 2:1			
4	8.94		cy/ft	0	0	су
5	11.18	1.48	cy/ft	0		су
6	13.42	1.69	cy/ft	0	0	су
7	15.65	1.89	cy/ft	0	0	су
8	17.89	2.10	cy/ft	0		су
9			cy/ft	0	0	су
10	22.36		cy/ft	0		су
11	24.60		cy/ft	0	0	су
12	26.83	2.93	cy/ft	0	0	су
		- Elega Radio		with	1.0/10/1	
			The state of the s			

≈ 65A

10+10+2+2= 24 + 2001= 4,800 s.f.

Georgestile region

2011 EWP-Gilboa(T) Dave Brown Mtn Rd Site 2



DSR # S-TG-02 (Dave Brown Mtn. Rd. Site 2) – 01/18/12 Site Photos



Photo 1: Looking West from beginning of failed slope down into stream



Photo 5: Looking East along slope failyure and damaged road
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DSR # S-TG-02 (Dave Brown Mtn. Rd. Site 2) – 01/18/12 Site Photos



Photo 6: Looking NE from streambed at slope failure & debris in channel



Photo 10: Looking N up at failed slope (approx. 55 feet high)
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DSR # S-TG-02 (Dave Brown Mtn. Rd. Site 2) – 01/18/12 Site Photos



Photo 17: Looking East along town road damaged by slope failure

Photo 6: