



Federal Lands Highway
"Commitment to Excellence"

CENTRAL FEDERAL LANDS HIGHWAY DIVISION



U.S. Department
of Transportation
**Federal Highway
Administration**



CONSTRUCTION PAYNOTE AND DOCUMENTATION EXAMPLE BOOK

- ❖ A guide for Contractors and FHWA contract administration personnel on CFL Field Projects
- ❖ To be used with CFL Standard Specifications for Construction of Roads and Bridges on Federal Highway Projects

Last Updated: April 2012

Construction Paynote Examples

This book was developed to be used as a guideline for Central Federal Lands Highway Division staff, our partnering agencies, and the contractors we work with. The Construction Paynote Examples book gives examples of how a contractor should submit a request for payment (paynote), and examples of documentation that adequately support their request.

Contractors should refer to Section 109 of the FP03 for details of how particular items of work should be measured and paid. Examples in this book were created to demonstrate various methods of measurement and support documentation. This book shows examples of support documentation (certifications, calculations, tickets, etc.). These are solely examples and do not intend to summarize all support documentation needed prior to payment of any given pay item. The method or requirements prescribed in the FP03 or Special Contract Requirements supersedes any examples given in the Field Note Sample Book.

General Instructions

- Paynotes shall be completed in blue pen or typed on a computer
- White-out is not allowed.
- To correct an error, strike out the mistake, write the correction above or below, and initial next to the correction.
- Paynotes and any support documentation shall be organized and clearly legible.
- All sections of the paynote must be filled in.
- Paynotes shall be signed by an approved contractor representative. Paynotes will not be accepted for payment without the contractor's signature.
- Paynotes will not be accepted without quality certifications, test results, and/or any other required documentation for materials used in the work.
- Certifications for any given item of work should include a statement from the Contractor that certifies that the material meets specifications and will be used on the project. All material placed for any given item of work should also be identifiable (i.e. roll numbers for silt fence, heat numbers for pipe, etc.).
- A single submittal of a certification is acceptable for multiple pay requests as long as the material for the item of work being performed is include within the certification.
- Paynotes shall be completed in a timely fashion per section 109.01 of the FP-03 or the Special Contract Requirements.
- For items with material incentive, QL-pay factors shall be computed and reported in a timely fashion per section 109.01 of the FP-03 or the Special Contract Requirements. Also, see section 106.05 of the FP-03 or the Special Contract Requirements.

EEBACS

The Engineer Estimating, Bidding, Award and Construction System (EEBACS) is an integrated system that provides for estimation, solicitation/award, and contract administration of FLH's construction projects. EEBACS is a Web-based system that is maintainable and scalable. Portions of the Construction module will also be offered in an off-line version – Not currently available, under development. EEBACS consists of a series of components that tracks costs from a project's inception through final acceptance.

The Construction module tracks information as the project progresses through construction. It provides for the development, approval, and tracking of payments for contract items. The Construction module also allow for tracking and management of other contract administration information including contract modifications, equipment, personnel, subcontractors, and contract status. In the Construction phase EEBACS provides the capability to:

- Create, track and approve Inspector Daily Reports (IDR);
- Create, track and approve Contractor Daily Reports (CDR);
- Create and track the Project Engineer's Daily Dairy;
- Track onsite personnel and equipment;
- Track subcontractors and associated information;
- Create and track Contract Modifications;
- Document and track contract administration and status;
- Create, track and approve payments to the contractor; and
- Generate detailed reports of how the project was constructed, including cost, equipment, and personnel.

The format used for the paynotes displayed in this example book mimics the general format of the EEBACS paynote page. Central Federal Lands intends to implement EEBACS with a select number of projects in 2012. Eventually, EEBACS will be used on all projects advertised by CFL. A blank paynote is provided on the following page (if an electronic copy is desired, speak to the Project Engineer to obtain the file). To date, the FP-03 and our Special Contract requirements do not require the Contractor to use any specific form for paynotes. For non-EEBACS projects, the Contractor may use this form if desired. However, if the Contractor chooses to use another paynote format, the format must comply with section 109.01 of the FP-03 or the Special Contract Requirements.

NOTE: An EEBACS user manual is available for the Contractor if desired. Please talk to the Project Engineer to request access.



Item Quantity Pay Note Sheet

Date:

Project Number: Project Name:

Account:

Pay Note Information:

Pay Item #: Item Description: Pay Unit:

Item Line #: Item Type:

Pay Note #: Pay Period:

Pay Note Entry:

Work Start Date: Work End Date:

Location/Description:

Remarks/Calculations:

Support Documentation/References:

Measured By:

Interim Measurement Final Measurement

TOTAL QUANTITY:

By signature below, I hereby certify that the measurements and calculations shown above are correct to the best of my knowledge and that the quantity being measured is subject to direct payment for the identified item under contract.

Contractor Representative (Print):

Date:

Contractor Representative (Signature):

Approved by FHWA Representative (Print):

Date:

Approved by FHWA Representative (Signature):

Checked by FHWA Representative (Signature):

Date:

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SECTION 1: LUMP SUM ITEMS

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GENERAL NOTE:

The items shown here are examples only - all measurement, documentation, and payment will conform to the project contract requirements regardless of what is shown here. Included here are examples of some of the many documentation types that may be required. Often documentation such as certifications and qualifications may be submitted and accepted once and then referenced accordingly instead of attaching additional copies for each pay note or payment period. Many documentation items are required prior to production, delivery, or placement; required documentation should be provided at the appropriate time and not necessarily at time of payment.

NOTE ON LPSM ITEMS:

Items paid by Lump Sum typically have very specific directions for when and how they will be paid. Please refer to the FP, the Special Contract Requirements, and plans for your project for detailed instructions prior to submitting any pay notes. In almost all cases, lump sum items require specific documentation prior to any payment. Lump sum items are not directly measured for payment but general measurements may be made to verify or estimate progress.



U.S. DEPARTMENT OF TRANSPORTATION
 FEDERAL HIGHWAY ADMINISTRATION
 Central Federal Lands Highway Division
 12300 W. Dakota Ave. Lakewood, Colorado 80228

Item Quantity Pay Note Sheet

Date:

Project Number:

Project Name:

Account:

Pay Note Information:

Pay Item #:

Item Description:

Pay Unit:

Item Line #:

Item Type:

Pay Note #:

Pay Period:

Pay Note Entry:

Work Start Date:

Work End Date:

Location/Description:

Notice to Proceed was issued on May 27, 2011.
 Bond premiums, SF 25 and 25A were submitted to FHWA on May 29, 2011.
 Began mobilizing construction equipment to the project on 06/01/11.
 Began construction activities on 06/05/11.

Remarks/Calculations:

-Refer to FP-03 151.03(b)
 -Original contract amount (\$12,000,000) minus mobilization (\$1,000,000) = revised total (\$11,000,000)
 -Contract work complete to date (06/30/11) = \$750,000 (which is greater than 5% contract amount via other bid items)

Pay lesser of the following two amounts

(a) 50% of mobilization = \$500,000

(b) 5% of original contract = \$600,000

Support Documentation/References:

See attached SF25 (performance bond) and SF25A (payment bond)

Measured By:

TOTAL QUANTITY: \$500,000 (LPSM)

Interim Measurement Final Measurement

By signature below, I hereby certify that the measurements and calculations shown above are correct to the best of my knowledge and that the quantity being measured is subject to direct payment for the identified item under contract.

Contractor Representative (Print):

Date:

Contractor Representative (Signature):

Approved by FHWA Representative (Print):

Date:

Approved by FHWA Representative (Signature):

Checked by FHWA Representative (Signature):

Date:

mobilization support documentation (performance bond)

Bond #929481895

PERFORMANCE BOND (See Instructions on reverse)	DATE BOND EXECUTED (Must be same or later than date of contract) September 4, 2009	FORM APPROVED OMB NO. 9000-0045
Public reporting burden for this collection of information is estimated to average 25 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate or any other aspect of the collection of information, including suggestions for reducing this burden, to the FAR Secretariat (VRS), Office of Federal Acquisition Policy, GSA, Washington, D.C. 20405; and to the Office of Management and Budget, Paperwork Reduction Project (9000-0045), Washington, D.C. 20503.		
PRINCIPAL (Legal name and business address) Duininck, Inc. P.O. Box 208 Prinsburg, MN 56281	TYPE OF ORGANIZATION ("X" one) <input type="checkbox"/> INDIVIDUAL <input type="checkbox"/> PARTNERSHIP <input type="checkbox"/> JOINT VENTURE <input checked="" type="checkbox"/> CORPORATION	
STATE OF INCORPORATION Minnesota		
SURETY (IES) (Name(s) and business address(es)) Continental Casualty Company & National Fire Insurance Company of Hartford 333 South Wabash Avenue Chicago, IL 60604	PENAL SUM OF BOND	
MILLION(S) THOUSAND(S) HUNDRED(S) CENTS 11 222 396 60		CONTRACT DATE CONTRACT NO. 9/1/09 DTFH68-09-C-00037

OBLIGATION:

We, the Principal and Surety(ies), are firmly bound to the United States of America (hereinafter called the Government) in the above penal sum. For payment of the penal sum, we bind ourselves, our heirs, executors, administrators, and successors, jointly and severally. However, where the Sureties are corporations acting as co-sureties, we, the Sureties, bind ourselves in such sum "jointly and severally" as well as "severally" only for the purpose of allowing a joint action or actions against any or all of us. For all other purposes, each Surety binds itself, jointly and severally with the Principal, for the payment of the sum shown opposite the name of the Surety. If no limit of liability is indicated, the limit of liability is the full amount of the penal sum.

CONDITIONS:

The principal has entered into the contract identified above.

THEREFORE:

The above obligation is void if the Principal –

(a)(1) Performs and fulfills all the undertakings, covenants, terms, conditions, and agreements of the contract during the original term of the contract and any extensions thereof that are granted by the Government, with or without notice to the Surety(ies), and during the life of any guaranty required under the contract, and (2) performs and fulfills all the undertakings, covenants, terms conditions, and agreements of any and all duly authorized modifications of the contract that hereafter are made. Notice of those modifications to the Surety(ies) are waived.

(b) Pays to the Government the full amount of the taxes imposed by the Government, if the said contract is subject to the Miller Act, (40 U.S.C. 270a-270a), which are collected, deducted, or withheld from wages paid by the Principal in carrying out the construction contract with respect to which this bond is furnished.

WITNESS:

The Principal and Surety(ies) executed this performance bond and affixed their seals on the above date.

PRINCIPAL				
SIGNATURE(S)	1. (Seal)	2. _____ (Seal)	3. _____ (Seal)	
NAME(S) & TITLE(S) (Typed)	1. Chris G. Duininck Vice-President	2. _____	3. _____	
INDIVIDUAL SURETY(IES)				
SIGNATURE(S)	1. _____ (Seal)	2. _____ (Seal)		
NAME(S) (Typed)	1. _____	2. _____		
CORPORATE SURETY(IES)				
SURETY A	NAME & ADDRESS	Continental Casualty Company 333 South Wabash Avenue, Chicago, IL 60604	STATE OF INC. IL	LIABILITY LIMIT \$569,497,000.00
	SIGNATURE(S)	1.	2. _____	CORPORATE SEAL
	NAME(S) & TITLE(S) (Typed)	1. Linda K. Ryks Attorney-in-Fact	2. _____	SEAL



mobilization support documentation (performance bond)

CORPORATE SURETY(IES) (Continued)

SURETY B	NAME & ADDRESS		National Fire Insurance Company of Hartford 333 South Wabash Avenue, Chicago, IL 60604	STATE OF INC.	IL	LIABILITY LIMIT	\$11,139,000.00
	SIGNATURE(S)		1. <i>Linda K. Ryks</i>	2.		CORPORATE	
	NAME(S) & TITLE(S) (Typed)		1. Linda K. Ryks Attorney-in-Fact	2.		SEAL	
SURETY C	NAME & ADDRESS			STATE OF INC.		LIABILITY LIMIT	
	SIGNATURE(S)		1.	2.		CORPORATE	
	NAME(S) & TITLE(S) (Typed)		1.	2.		SEAL	
SURETY D	NAME & ADDRESS			STATE OF INC.		LIABILITY LIMIT	
	SIGNATURE(S)		1.	2.		CORPORATE	
	NAME(S) & TITLE(S) (Typed)		1.	2.		SEAL	
SURETY E	NAME & ADDRESS			STATE OF INC.		LIABILITY LIMIT	
	SIGNATURE(S)		1.	2.		CORPORATE	
	NAME(S) & TITLE(S) (Typed)		1.	2.		SEAL	
SURETY F	NAME & ADDRESS			STATE OF INC.		LIABILITY LIMIT	
	SIGNATURE(S)		1.	2.		CORPORATE	
	NAME(S) & TITLE(S) (Typed)		1.	2.		SEAL	
SURETY G	NAME & ADDRESS			STATE OF INC.		LIABILITY LIMIT	
	SIGNATURE(S)		1.	2.		CORPORATE	
	NAME(S) & TITLE(S) (Typed)		1.	2.		SEAL	

BOND PREMIUM	RATE PER THOUSAND	TOTAL
	\$5.00 Slide	\$39, 206.00

INSTRUCTIONS

1. This form is authorized for use in connection with Government contracts. Any deviation from this form will require the written approval of the Administrator of General Services.
2. Insert the full legal name and business address of the Principal in the space designated "Principal" on the face of the form. An authorized person shall sign the bond. Any person signing in a representative capacity (e.g., an attorney-in-fact) must furnish evidence of authority if that representative is not a member of the firm, partnership, or joint venture, or an officer of the corporation involved.
3. (a) Corporations executing the bonds as sureties must appear on the Department of the Treasury's list of the approved sureties and must act within the limitation listed therein. Where more than one corporate surety is involved their names and addresses shall appear in the spaces (Surety A, Surety B, etc.) headed "CORPORATE SURETY(IES)." in the space

designated "SURETY(IES)" on the face of the form, insert only the letter identification of the sureties.

- (b) Where individual sureties are involved, a completed Affidavit of Individual Surety (Standard Form 28), for each individual surety, shall accompany the bond. The Government may require the surety to furnish additional substantiating information concerning its financial capability.
4. Corporations executing the bond shall affix their corporate seals. Individuals shall execute the bond opposite the word "Corporate Seal", and shall affix an adhesive seal if executed in Maine, New Hampshire, or any other jurisdiction requiring adhesive seals.
5. Type the name and title of each person signing this bond in the space provided.

mobilization support documentation (performance bond)
POWER OF ATTORNEY APPOINTING INDIVIDUAL AS ATTORNEY-IN-FACT

Know All Men By These Presents, That Continental Casualty Company, an Illinois insurance company, National Fire Insurance Company of Hartford, an Illinois insurance company, and American Casualty Company of Reading, Pennsylvania, a Pennsylvania insurance company (herein called "the CNA Companies"), are duly organized and existing insurance companies having their principal offices in the City of Chicago, and State of Illinois, and that they do by virtue of the signatures and seals herein affixed hereby make, constitute and appoint

Wes G Wieberdink, Linda K Ryks, Roger Ahrenholz, Myron Mulder, Individually

of Prinsburg, MN, their true and lawful Attorney(s)-in-Fact with full power and authority hereby conferred to sign, seal and execute for and on their behalf bonds, undertakings and other obligatory instruments of similar nature

- In Unlimited Amounts -

and to bind them thereby as fully and to the same extent as if such instruments were signed by a duly authorized officer of their insurance companies and all the acts of said Attorney, pursuant to the authority hereby given is hereby ratified and confirmed.

This Power of Attorney is made and executed pursuant to and by authority of the By-Law and Resolutions, printed on the reverse hereof, duly adopted, as indicated, by the Boards of Directors of the insurance companies.

In Witness Whereof, the CNA Companies have caused these presents to be signed by their Senior Vice President and their corporate seals to be hereto affixed on this 19th day of January, 2009.



Continental Casualty Company
National Fire Insurance Company of Hartford
American Casualty Company of Reading, Pennsylvania

Robert M. Mann Senior Vice President

State of Illinois, County of Cook, ss:

On this 19th day of January, 2009, before me personally came Robert M. Mann to me known, who, being by me duly sworn, did depose and say: that he resides in the City of Chicago, State of Illinois; that he is a Senior Vice President of Continental Casualty Company, an Illinois insurance company, National Fire Insurance Company of Hartford, an Illinois insurance company, and American Casualty Company of Reading, Pennsylvania, a Pennsylvania insurance company described in and which executed the above instrument; that he knows the seals of said insurance companies; that the seals affixed to the said instrument are such corporate seals; that they were so affixed pursuant to authority given by the Boards of Directors of said insurance companies and that he signed his name thereto pursuant to like authority, and acknowledges same to be the act and deed of said insurance companies.



My Commission Expires September 17, 2009

Eliza Price Notary Public

CERTIFICATE

I, Mary A. Ribikawskis, Assistant Secretary of Continental Casualty Company, an Illinois insurance company, National Fire Insurance Company of Hartford, an Illinois insurance company, and American Casualty Company of Reading, Pennsylvania, a Pennsylvania insurance company do hereby certify that the Power of Attorney herein above set forth is still in force, and further certify that the By-Law and Resolution of the Board of Directors of the insurance companies printed on the reverse hereof is still in force. In testimony whereof I have hereunto subscribed my name and affixed the seal of the said insurance companies this 4th day of September, 2009.



Continental Casualty Company
National Fire Insurance Company of Hartford
American Casualty Company of Reading, Pennsylvania

Mary A. Ribikawskis Assistant Secretary

PAYMENT BOND (See Instructions on reverse)		DATE BOND EXECUTED (Must be same or later than date of contract) September 4, 2009	FORM APPROVED OMB NO. 9000-0045								
Public reporting burden for this collection of information is estimated to average 25 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate or any other aspect of the collection of information, including suggestions for reducing this burden, to the FAR Secretariat (VRS), Office of Federal Acquisition Policy, GSA, Washington, D.C. 20405; and to the Office of Management and Budget, Paperwork Reduction Project (9000-0045), Washington, D.C. 20503.											
PRINCIPAL (Legal name and business address) Duininc, Inc. P.O. Box 208 Prinsburg, MN 56281		TYPE OF ORGANIZATION ("X" one) <input type="checkbox"/> INDIVIDUAL <input type="checkbox"/> PARTNERSHIP <input type="checkbox"/> JOINT VENTURE <input checked="" type="checkbox"/> CORPORATION									
		STATE OF INCORPORATION Minnesota									
SURETY (IES) (Name(s) and business address(es)) Continental Casualty Company & National Fire Insurance Company of Hartford 333 South Wabash Avenue Chicago, IL 60604		PENAL SUM OF BOND <table border="1"> <tr> <th>MILLION(S)</th> <th>THOUSAND(S)</th> <th>HUNDRED(S)</th> <th>CENTS</th> </tr> <tr> <td>11</td> <td>222</td> <td>396</td> <td>60</td> </tr> </table>		MILLION(S)	THOUSAND(S)	HUNDRED(S)	CENTS	11	222	396	60
MILLION(S)	THOUSAND(S)	HUNDRED(S)	CENTS								
11	222	396	60								
		CONTRACT DATE 9/1/2009	CONTRACT NO. DTFH68-09-C-00037								

OBLIGATION:


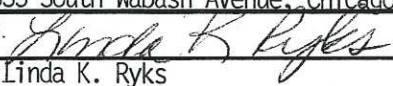
We, the Principal and Surety(ies), are firmly bound to the United States of America (hereinafter called the Government) in the above penal sum. For payment of the penal sum, we bind ourselves, our heirs, executors, administrators, and successors, jointly and severally. However, where the Sureties are corporations acting as co-sureties, we, the Sureties, bind ourselves in such sum "jointly and severally" as well as "severally" only for the purpose of allowing a joint action or actions against any or all of us. For all other purposes, each Surety binds itself, jointly and severally with the Principal, for the payment of the sum shown opposite the name of the Surety. If no limit of liability is indicated, the limit of liability is the full amount of the penal sum.

CONDITIONS:

The above obligation is void if the Principal promptly makes a payment to all persons having a direct relationship with the Principal or a subcontractor of the Principal for furnishing labor, material or both in the prosecution of the work provided for in the contract identified above, and any authorized modifications of the contract that subsequently are made. Notice of those modifications to the Surety(ies) are waived.

WITNESS:

The Principal and Surety(ies) executed this performance bond and affixed their seals on the above date.

PRINCIPAL				
SIGNATURE(S)	1.  (Seal)	2. _____ (Seal)	3. _____ (Seal)	
NAME(S) & TITLE(S) (Typed)	1. Chris G. Duininc Vice-President	2. _____	3. _____	
INDIVIDUAL SURETY(IES)				
SIGNATURE(S)	1. _____ (Seal)	2. _____ (Seal)		
NAME(S) (Typed)	1. _____	2. _____		
CORPORATE SURETY(IES)				
SURETY A	NAME & ADDRESS	Continental Casualty Company 333 South Wabash Avenue, Chicago, IL 60604	STATE OF INC. IL	LIABILITY LIMIT \$569,497,000.00
	SIGNATURE(S)	1. 	2. _____	CORPORATE
	NAME(S) & TITLE(S) (Typed)	1. Linda K. Ryks Attorney-in-Fact	2. _____	SEAL



mobilization support documentation (payment bond)

CORPORATE SURETY(IES) (Continued)					
SURETY B	NAME & ADDRESS	National Fire Insurance Company of Hartford 333 South Wabash Avenue, Chicago, IL 60604		STATE OF INC. IL	LIABILITY LIMIT \$11, 139,000.00
	SIGNATURE(S)	1. <i>Linda K Ryks</i>	2.		
	NAME(S) & TITLE(S) (Typed)	1. Linda K. Ryks Attorney-in-Fact	2.		
					CORPORATE SEAL
SURETY C	NAME & ADDRESS			STATE OF INC.	LIABILITY LIMIT
	SIGNATURE(S)	1.	2.		
	NAME(S) & TITLE(S) (Typed)	1.	2.		
					CORPORATE SEAL
SURETY D	NAME & ADDRESS			STATE OF INC.	LIABILITY LIMIT
	SIGNATURE(S)	1.	2.		
	NAME(S) & TITLE(S) (Typed)	1.	2.		
					CORPORATE SEAL
SURETY E	NAME & ADDRESS			STATE OF INC.	LIABILITY LIMIT
	SIGNATURE(S)	1.	2.		
	NAME(S) & TITLE(S) (Typed)	1.	2.		
					CORPORATE SEAL
SURETY F	NAME & ADDRESS			STATE OF INC.	LIABILITY LIMIT
	SIGNATURE(S)	1.	2.		
	NAME(S) & TITLE(S) (Typed)	1.	2.		
					CORPORATE SEAL
SURETY G	NAME & ADDRESS			STATE OF INC.	LIABILITY LIMIT
	SIGNATURE(S)	1.	2.		
	NAME(S) & TITLE(S) (Typed)	1.	2.		
					CORPORATE SEAL

INSTRUCTIONS

1. This form is authorized for use in connection with Government contracts. Any deviation from this form will require the written approval of the Administrator of General Services.

2. Insert the full legal name and business address of the Principal in the space designated "Principal" on the face of the form. An authorized person shall sign the bond. Any person signing in a representative capacity (e.g., an attorney-in-fact) must furnish evidence of authority if that representative is not a member of the firm, partnership, or joint venture, or an officer of the corporation involved.

3. (a) Corporations executing the bond as sureties must appear on the Department of the Treasury's list of the approved sureties and must act within the limitation listed therein. Where more than one corporate surety is involved their names and addresses shall appear in the spaces (Surety A, Surety B, etc.) headed "CORPORATE SURETY(IES)." in the space

designated "SURETY(IES)" on the face of the form, insert only the letter identification of the sureties.

(b) Where individual sureties are involved, a completed Affidavit of Individual Surety (Standard Form 28), for each individual surety, shall accompany the bond. The Government may require the surety to furnish additional substantiating information concerning its financial capability.

4. Corporations executing the bond shall affix their corporate seals. Individuals shall execute the bond opposite the word "Corporate Seal", and shall affix an adhesive seal if executed in Maine, New Hampshire, or any other jurisdiction requiring adhesive seals.

5. Type the name and title of each person signing this bond in the space provided.

mobilization support documentation (payment bond)
POWER OF / ORNEY APPOINTING INDIVIDUAL AT RNEY-IN-FACT

Know All Men By These Presents, That Continental Casualty Company, an Illinois insurance company, National Fire Insurance Company of Hartford, an Illinois insurance company, and American Casualty Company of Reading, Pennsylvania, a Pennsylvania insurance company (herein called "the CNA Companies"), are duly organized and existing insurance companies having their principal offices in the City of Chicago, and State of Illinois, and that they do by virtue of the signatures and seals herein affixed hereby make, constitute and appoint

Wes G Wieberdink, Linda K Ryks, Roger Ahrenholz, Myron Mulder, Individually

of Prinsburg, MN, their true and lawful Attorney(s)-in-Fact with full power and authority hereby conferred to sign, seal and execute for and on their behalf bonds, undertakings and other obligatory instruments of similar nature

- In Unlimited Amounts -

and to bind them thereby as fully and to the same extent as if such instruments were signed by a duly authorized officer of their insurance companies and all the acts of said Attorney, pursuant to the authority hereby given is hereby ratified and confirmed.

This Power of Attorney is made and executed pursuant to and by authority of the By-Law and Resolutions, printed on the reverse hereof, duly adopted, as indicated, by the Boards of Directors of the insurance companies.

In Witness Whereof, the CNA Companies have caused these presents to be signed by their Senior Vice President and their corporate seals to be hereto affixed on this 19th day of January, 2009.



Continental Casualty Company
National Fire Insurance Company of Hartford
American Casualty Company of Reading, Pennsylvania

Robert M. Mann Senior Vice President

State of Illinois, County of Cook, ss:

On this 19th day of January, 2009, before me personally came Robert M. Mann to me known, who, being by me duly sworn, did depose and say: that he resides in the City of Chicago, State of Illinois; that he is a Senior Vice President of Continental Casualty Company, an Illinois insurance company, National Fire Insurance Company of Hartford, an Illinois insurance company, and American Casualty Company of Reading, Pennsylvania, a Pennsylvania insurance company described in and which executed the above instrument; that he knows the seals of said insurance companies; that the seals affixed to the said instrument are such corporate seals; that they were so affixed pursuant to authority given by the Boards of Directors of said insurance companies and that he signed his name thereto pursuant to like authority, and acknowledges same to be the act and deed of said insurance companies.



My Commission Expires September 17, 2009

Eliza Price Notary Public

CERTIFICATE

I, Mary A. Ribikawskis, Assistant Secretary of Continental Casualty Company, an Illinois insurance company, National Fire Insurance Company of Hartford, an Illinois insurance company, and American Casualty Company of Reading, Pennsylvania, a Pennsylvania insurance company do hereby certify that the Power of Attorney herein above set forth is still in force, and further certify that the By-Law and Resolution of the Board of Directors of the insurance companies printed on the reverse hereof is still in force. In testimony whereof I have hereunto subscribed my name and affixed the seal of the said insurance companies this 4th day of September, 2009.



Continental Casualty Company
National Fire Insurance Company of Hartford
American Casualty Company of Reading, Pennsylvania

Mary A. Ribikawskis Assistant Secretary



U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
Central Federal Lands Highway Division
12300 W. Dakota Ave. Lakewood, Colorado 80228

Item Quantity Pay Note Sheet

Date:

Project Number: Project Name:

Account:

Pay Note Information:

Pay Item #: Item Description: Pay Unit:

Item Line #: Item Type:

Pay Note #: Pay Period:

Pay Note Entry:

Work Start Date: Work End Date:

Location/Description:

Notice to Proceed was issued on May 27, 2011.
Bond premiums, SF 25 and 25A were submitted to FHWA on May 29, 2011.
Began mobilizing construction equipment to the project on 06/01/11.
Began construction activities on 06/05/11.

Remarks/Calculations:

-Refer to FP-03 151.03(b)
-Original contract amount (\$12,000,000) minus mobilization (\$1,000,000) = revised total (\$11,000,000)
-Contract work complete to date (08/31/11) = \$3,000,000 (which is greater than 10% contract amount via other bid items)

Previous Payment = \$500,000 (Pay Period #1)
Remaining balance for payment: \$1,000,000 - \$500,000 = \$500,000
Pay \$500,000 in Pay Period 3
Mobilization is now 100% complete

Support Documentation/References:

Measured By:

TOTAL QUANTITY: \$500,000 (LPSM)

Interim Measurement Final Measurement

By signature below, I hereby certify that the measurements and calculations shown above are correct to the best of my knowledge and that the quantity being measured is subject to direct payment for the identified item under contract.

Contractor Representative (Print): Date:

Contractor Representative (Signature):

Approved by FHWA Representative (Print): Date:

Approved by FHWA Representative (Signature):

Checked by FHWA Representative (Signature): Date:



U.S. DEPARTMENT OF TRANSPORTATION
 FEDERAL HIGHWAY ADMINISTRATION
 Central Federal Lands Highway Division
 12300 W. Dakota Ave. Lakewood, Colorado 80228

Item Quantity Pay Note Sheet

 Date:

 Project Number:

 Project Name:

 Account:

Pay Note Information:

 Pay Item #:

 Item Description:

 Pay Unit:

 Item Line #:

 Item Type:

 Pay Note #:

 Pay Period:

Pay Note Entry:

 Work Start Date:

 Work End Date:

Location/Description:

Construction Survey and Staking activities began on 07/01/10.
 Pipe plots (7/24 to 7/30): STA 100+56, 104+78, 106+67, 107+95
 Pipe Staking (7/24, 7/27): STA 100+56, 104+78
 Clearing Stakes RT and LT (7/24 to 7/28): STA 100+00 to 152+80
 Reference Stakes RT and LT (7/26, 7/27): STA 100+00 to 152+80
 Slope Stakes RT and LT (7/30,7/31): STA 100+00 to 152+80

Remarks/Calculations:

Per agreement with FHWA CO and Contractor Owner, the breakdown of work for all LPSM survey work is as follows:
 15% pipes, 5% curb/drainage, 60% clearing/ref/slope, 5% red tops, 7% blue tops, 3% parking and 5% misc. (signs/stripping,etc.)
 See attached spreadsheets: 2.94% of 15% completed of pipe survey, 16.87% of 60% completed of clearing/ref/slope stakes
 Pay 2.94% + 16.87% = 19.81% X (\$15,000 LPSM) = \$2,971.50

Support Documentation/References:

Pipe Culvert Survey Breakdown Spreadsheet, Clearing/Ref/Slope Staking Breakdown Spreadsheet
 Note: Pipe plots have been submitted and approved prior to payment (see example of acceptable pipe plot)

 Measured By:
TOTAL QUANTITY: \$2,971.50 (LPSM)
 Interim Measurement Final Measurement

By signature below, I hereby certify that the measurements and calculations shown above are correct to the best of my knowledge and that the quantity being measured is subject to direct payment for the identified item under contract.

 Contractor Representative (Print):

 Date:

 Contractor Representative (Signature):

 Approved by FHWA Representative (Print):

 Date:

 Approved by FHWA Representative (Signature):

 Checked by FHWA Representative (Signature):

 Date:

survey and staking support documentation (pipe culvert survey breakdown spreadsheet)

**WY ERFO 261(1), Cedar Pass Road
Survey and Staking (LPSM)**

Pipe Culverts-17 total (15% of LPSM)						
#	Date Complete	Pipe Plots (10%)	Pay Percentage*	Date Completed	Staking (5%)	Pay Percentage**
1	7/24/2011	100+56	0.59	7/24/2011	100+56	0.29
2	7/24/2011	104+78	0.59	7/27/2011	104+78	0.29
3	7/30/2011	106+67	0.59	Not yet completed	106+67	0.29
4	7/30/2011	107+95	0.59	Not yet completed	107+95	0.29
5	Not yet completed	108+98	0.59	Not yet completed	108+98	0.29
6	Not yet completed	110+09	0.59	Not yet completed	110+09	0.29
7	Not yet completed	115+78	0.59	Not yet completed	115+78	0.29
8	Not yet completed	118+03	0.59	Not yet completed	118+03	0.29
9	Not yet completed	119+89	0.59	Not yet completed	119+89	0.29
10	Not yet completed	124+45	0.59	Not yet completed	124+45	0.29
11	Not yet completed	137+36	0.59	Not yet completed	137+36	0.29
12	Not yet completed	152+56	0.59	Not yet completed	152+56	0.29
13	Not yet completed	167+66	0.59	Not yet completed	167+66	0.29
14	Not yet completed	231+45	0.59	Not yet completed	231+45	0.29
15	Not yet completed	235+63	0.59	Not yet completed	235+63	0.29
16	Not yet completed	247+11	0.59	Not yet completed	247+11	0.29
17	Not yet completed	260+13	0.59	Not yet completed	260+13	0.29

$$(0.59\% \times 4) + (0.29\% \times 2) = \boxed{2.94\%}$$

*Pipe Plot Pay Percentage = $((1/17) \times 0.1) \times 100$

**Staking Pay Percentage = $((1/17) \times 0.05) \times 100$

survey and staking support documentation (clearing/ref/slope staking breakdown spreadsheet)

**WY ERFO 261(1), Cedar Pass Road
Survey and Staking (LPSM)**

Clearing, Reference and Slope Staking: 100+00 to 269+00 = 16,900 feet total (60% of Survey and Staking LPSM)															
Clearing (18%)					Reference (18%)					Slope (18%)					Restake as Needed (6%)
Date	Station	-	Station	Length (feet)	Date	Station	-	Station	Length (feet)	Date	Station	-	Station	Length (feet)	
07/24/11	100+00	-	116+00	1600	7/26/11	100+00	-	123+00	2300	7/30/11	100+00	-	122+50	2250	
07/25/11	116+00	-	128+00	1200	7/27/11	123+00	-	152+80	2980	7/31/11	122+50	-	152+80	3030	
07/27/11	128+00	-	143+00	1500											
07/28/11	143+00	-	152+80	980											
Total Length in feet = 5280					Total Length in feet = 5280					Total Length in feet = 5280					Pay at the end of project once all necessary restaking is completed

CALCULATIONS:

TOTAL CLEARING % FOR PAYMENT = (5,280'/16,900') X 18% = 5.623%

TOTAL REFERENCE % FOR PAYMENT = (5,280'/16,900') X 18% = 5.623%

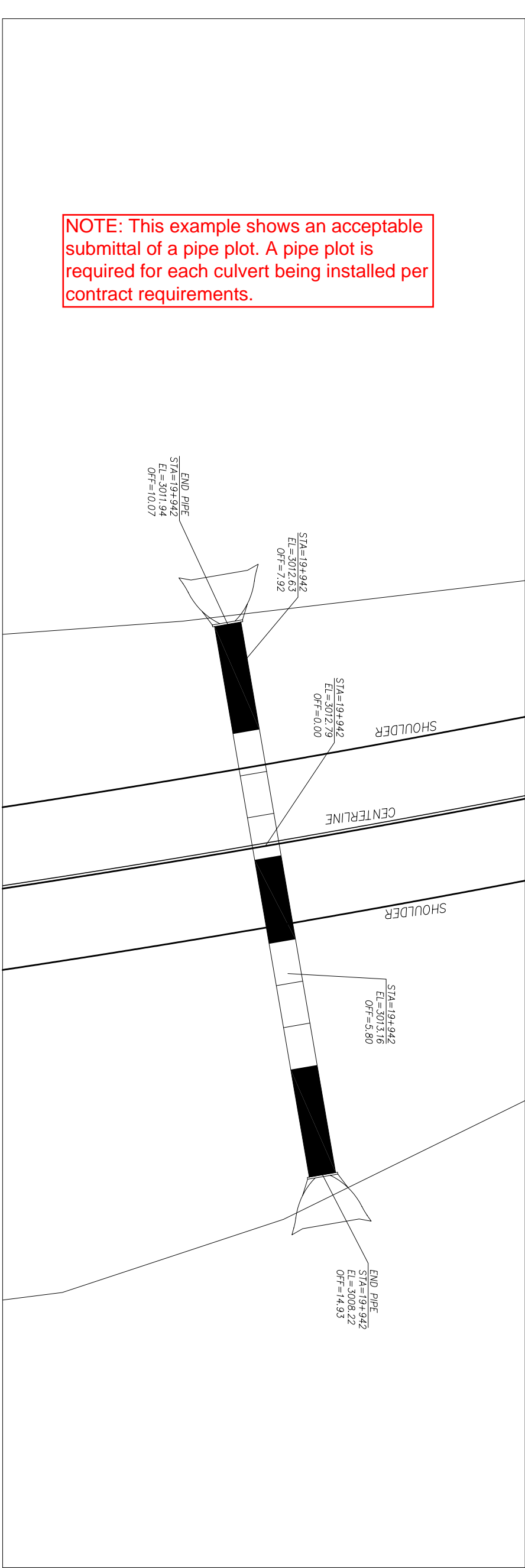
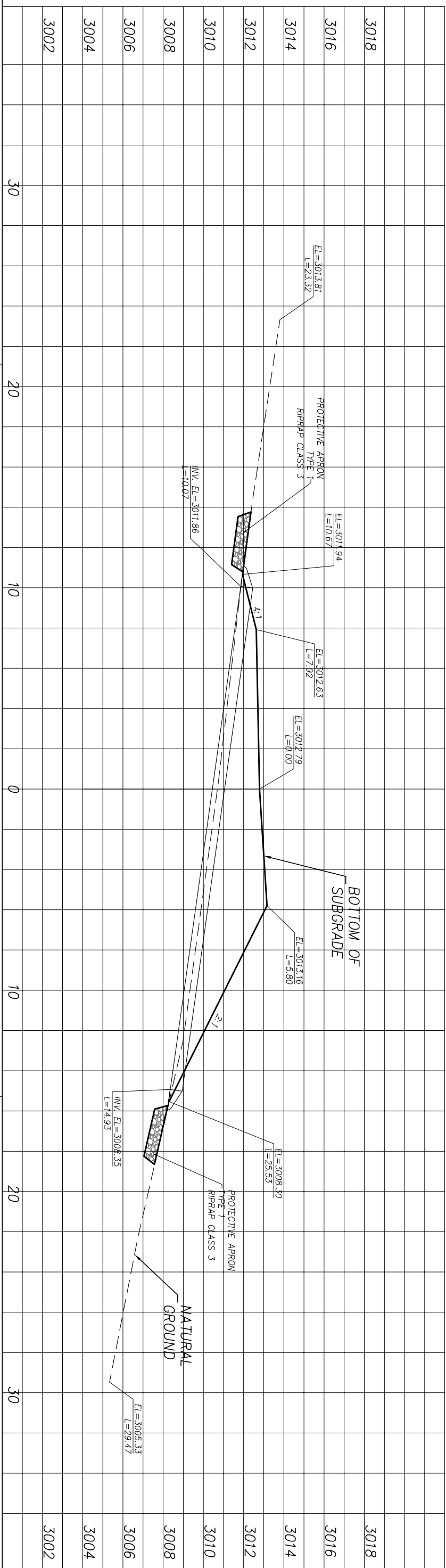
TOTAL SLOPE % FOR PAYMENT = (5,280'/16,900') X 18% = 5.623%

TOTAL = 16.869%



PEPG ENGINEERING, L.L.C.
 8805 S SANDY PARKWAY • SANDY, UT 84070
 PH: (801) 562-2521 • FAX: (801) 562-2551

SEVENMILE-GOOSEBERRY ROAD PHASE II
 UTAH FOREST HIGHWAY PROJECT P.F.H. 39-1(2)
 SEVIER COUNTY--FISH LAKE NATIONAL FOREST
 CULVERT CROSSING 19+930



NOTE: This example shows an acceptable submittal of a pipe plot. A pipe plot is required for each culvert being installed per contract requirements.



SCALE=1:100
 (594mm X 841mm)

- NOTES:
1. OFF= OFFSET FROM ROADWAY CENTERLINE TO SPECIFIC POINT ON PLAN VIEW.
 2. L= HORIZONTAL LENGTH FROM INTERSECTION OF ROADWAY CENTERLINE AND CULVERT PIPE TO SPECIFIC POINT ON PROFILE DRAWING.

CULVERT STAKING DATA

DESIGN STA.: 19+930	ACTUAL STA.: 19+942	DIAMETER: 600 MM	SKEW: NONE
PIPE HORIZ. LENGTH: 25.00 M	PIPE LENGTH: 26.54 M	PIPE TYPE: METAL	END SECTIONS: 2
INLET ELEV.: 3011.86	OUTLET ELEV.: 3008.35	DROP: 3.51 M	SLOPE: 14.04%
STAKED BY: PEPG ENGINEERING			
DATE: 7-31-09			



U.S DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
Central Federal Lands Highway Division
12300 W. Dakota Ave. Lakewood, Colorado 80228

Item Quantity Pay Note Sheet

Date: 08/31/10

Project Number: WY ERFO 261(1) Project Name: Cedar Pass Road

Account: Schedule A

Pay Note Information:

Pay Item #: 15401-0000 Item Description: Contractor Testing Pay Unit: LPSM

Item Line #: N/A (for EEBACS only) Item Type: N/A (for EEBACS only)

Pay Note #: 5 Pay Period: 1

Pay Note Entry:

Work Start Date: 08/12/10 Work End Date: 8/31/10

Location/Description:

On 8/12/10 testing facilities were established and approved by FHWA, qualified testing personnel were identified and approved by FHWA, and SF-1413's for the subcontractor performing this work were submitted and later approved by FHWA.
On 8/24/11, testing began for site 6 embankment work.

Remarks/Calculations:

Per 154.07(a), 25% of the item amount, not to exceed 0.5 percent of the original contract amount, will be paid after all the testing facilities are in place, qualified sampling and testing personnel are identified, and the work being tested has started.
-Original Contract Amount = \$1,000,000
-Contractor Testing Amount = \$10,000
Pay lesser of the following two amounts
a) \$1,000,000 x %0.5 = \$5,000
b) \$10,000 X %25 = \$2,500
Note: To date, a low % of total testing has been completed...per Contractor and FHWA, prorated payment will be begin on PP 2.

Support Documentation/References:

(1) QC Plan (Appendix G) (2) Material Testing Lab Accreditation (3) Site 6 embankment testing reports 8/24/11 - 8/31/11
(4) Material Tester Certificates (NOT SHOWN)

Measured By: Joe the Inspector & Bob the Contractor

TOTAL QUANTITY: \$2,500 (LPSM)

Interim Measurement Final Measurement

By signature below, I hereby certify that the measurements and calculations shown above are correct to the best of my knowledge and that the quantity being measured is subject to direct payment for the identified item under contract.

Contractor Representative (Print): Bob the Contractor

Date: 08/31/10

Contractor Representative (Signature):

Approved by FHWA Representative (Print): Joe the Inspector

Date: 08/31/10

Approved by FHWA Representative (Signature):

Checked by FHWA Representative (Signature): Jane the Engineer

Date: 09/05/10

American Association of State Highway and Transportation Officials AASHTO Accreditation Program - Certificate of Accreditation

This is to signify that

CONTRACTOR INC.

has demonstrated proficiency for the testing of construction materials and has met the minimum requirements in AASHTO R18 set forth by the AASHTO Highway Subcommittee on Materials.

The scope of accreditation can be obtained by viewing the AAP Directories of Accredited Laboratories (www.amrl.net) or by contacting AMRL.

Signatures Required

Executive Director

Signatures Required

Chair, AASHTO Highway Subcommittee on Materials



support documentation for contractor testing (site 6 embankment test reports)

Geotechnical • Environmental • Materials Testing

REPORT OF FIELD DENSITY TEST RESULTS

Client:		Date:	August 24, 2011
Project:	WY ERFO 261 Cedar Pass Road, WY	Project No:	11-1490-T
Item Tested:	Street	Report No:	03
		Test No's.:	1 through 2

Test	Location: <i>Site 6</i>	Depth	MDD	OMC	Dry Dens.	Moist	% Comp.	Soil Type
1	676 + 10 South Side	1st Lift	130.3	6.7	127.0	6.4	97.5	Silty SAND with Gravel
2	676 + 10 South Side	1st Lift	130.3	6.7	125.5	9.6	96.3	Silty SAND with Gravel

COMPACTION SPECIFICATIONS

Area: Street	Compaction: \geq 95% of ASHTO T-99	Moisture: +/-2 pts OMC
--------------	--------------------------------------	------------------------

INDICATION OF DENSITY TEST PASS OR FAILURE

	<p>This report presents opinions as a result of our observation of fill placement. We have relied on the contractor to continue applying the recommended compactive effort and moisture to the fill during times when our observer is not observing operations. Tests are made of the fill only as believed necessary to calibrate our observer's judgment. Test data are not the sole basis for opinions on whether the fill meets specifications. Our tests indicate only the field dry density and moisture content of the material sampled. The quality and swell potential of the material is not considered herein.</p> <p>Periodic Observation of fill placement being continued unless otherwise advised.</p>
<input type="checkbox"/> Pass	In our opinion the fill has been compacted to the spec. requirements as indicated by test number 1 through 2.
<input type="checkbox"/> Failure	In our opinion fill does not meet specified requirements as indicated by Test No. (s) and should be removed or reworked. Contractor has been advised.
<input type="checkbox"/> Remarks:	
Field Observer: DH Reviewed By: DP	



U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
Central Federal Lands Highway Division
12300 W. Dakota Ave. Lakewood, Colorado 80228

Item Quantity Pay Note Sheet

Date:

Project Number: Project Name:

Account:

Pay Note Information:

Pay Item #: Item Description: Pay Unit:

Item Line #: Item Type:

Pay Note #: Pay Period:

Pay Note Entry:

Work Start Date: Work End Date:

Location/Description:

From 9/1/10 to 9/30/10 Embankment (for RSS embankment construction) and Aggregate Base Testing (see attached test results)

Remarks/Calculations:

Per 154.07(b), payment for the remaining portion of the item amount will be prorated based on the total work complete.
Testing facilities/personnel in place and item begin = 25% (75% remaining) Paid Estimate 1 on 8/31/10

Original contract amount (\$1,000,000) minus contractor testing (\$10,000) = revised total (\$990,000)
Contract work complete to date (09/30/10) = \$300,000 (\$300,000/\$990,000 X %100 = %30.3)
%30.3 (contract work complete to date) X 75% (remaining testing work to be paid) = %22.72

%22.72 X \$10,000 = \$2,272.72

Support Documentation/References:

(1) Site 5 Embankment Testing Summary (2) Site 5 embankment testing reports (3) Site 5 aggregate testing reports 10/30/11

Measured By:

TOTAL QUANTITY: \$2,272.72 (LPSM)

Interim Measurement Final Measurement

By signature below, I hereby certify that the measurements and calculations shown above are correct to the best of my knowledge and that the quantity being measured is subject to direct payment for the identified item under contract.

Contractor Representative (Print):

Date:

Contractor Representative (Signature):

Approved by FHWA Representative (Print):

Date:

Approved by FHWA Representative (Signature):

Checked by FHWA Representative (Signature):

Date:

support documentation for contractor testing (site 5 embankment testing summary)

Site 5 EMBANKMENT TESTING SUMMARY								
WY ERFO 261(1), Cedar Pass Road, CONTRACTOR INC.								
Date	Station	Elev. (ft.)	Proctor	Density (PCF)	Moisture (%)	% Compaction	(+/-) Moisture	Pass (Y/N)
9/27/2011	277+55	8938	In-Situ: 121.5 PCF @12.3%	116.6	14	96.0	1.7	Y
9/27/2011	277+58	8939.5	In-Situ: 121.5 PCF @12.3%	115.9	12.7	95.4	0.4	Y
9/29/2011	277+50	8945	In-Situ: 121.5 PCF @12.3%	118.9	14.5	97.9	2.2	Y
9/29/2011	277+15	8945	In-Situ: 121.5 PCF @12.3%	120.6	13	99.3	0.7	Y
9/30/2011	277+25	8945.5	In-Situ: 121.5 PCF @12.3%	118	13.8	97.1	1.5	Y
9/30/2011	277+20	8946	In-Situ: 121.5 PCF @12.3%	117.9	14.2	97.0	1.9	Y
9/30/2011	276+55	8946	In-Situ: 121.5 PCF @12.3%	116.9	14.1	96.2	1.8	Y
9/30/2011	277+45	8947	Rch Pit: 130.4 PCF @6.7%	126.8	7.2	97.2	0.5	Y
10/1/2011	277+40	8948	Rch Pit: 130.4 PCF @6.7%	124.9	8.1	95.8	1.4	Y
10/1/2011	277+30	8948.5	Rch Pit: 130.4 PCF @6.7%	129.2	7.7	99.1	1	Y
10/1/2011	277+15	8949.5	Rch Pit: 130.4 PCF @6.7%	126.1	7.6	96.7	0.9	Y
10/3/2011	277+00	8951.5	Rch Pit: 130.4 PCF @6.7%	125.7	8	96.4	1.3	Y
10/4/2011	277+00	8953	Rch Pit: 130.4 PCF @6.7%	129.7	8.1	99.5	1.4	Y
10/5/2011	277+15	8954	Rch Pit: 130.4 PCF @6.7%	125.7	5.9	96.4	-0.8	Y
10/6/2011	277+25	8956	Rch Pit: 130.4 PCF @6.7%	126	6.4	96.6	-0.3	Y
10/14/2011	277+20	8957.5	Rch Pit: 130.4 PCF @6.7%	128.7	6	98.7	-0.7	Y
10/14/2011	276+55	8959	Rch Pit: 130.4 PCF @6.7%	127.2	6.3	97.5	-0.4	Y
10/14/2011	277+45	8960.5	Rch Pit: 130.4 PCF @6.7%	128	6.1	98.2	-0.6	Y
10/14/2011	277+20	8962	Rch Pit: 130.4 PCF @6.7%	128.9	7.4	98.8	0.7	Y
10/15/2011	277+55	8963.5	Rch Pit: 130.4 PCF @6.7%	130.2	7.2	99.8	0.5	Y
10/15/2011	277+45	8965	Rch Pit: 130.4 PCF @6.7%	129.8	7.1	99.5	0.4	Y
10/16/2011	276+40	8966.5	Rch Pit: 130.4 PCF @6.7%	128.7	8.4	98.7	1.7	Y
10/18/2011	277+30	8968	Rch Pit: 130.4 PCF @6.7%	129.5	8.2	99.3	1.5	Y
10/19/2011	277+15	8969.5	Rch Pit: 130.4 PCF @6.7%	129.5	7.4	99.3	0.7	Y
10/19/2011	276+20	8971	Rch Pit: 130.4 PCF @6.7%	133.2	13.2	102.1	6.5	Y
10/20/2011	277+55	8972.5	Rch Pit: 130.4 PCF @6.7%	137.2	9.8	105.2	3.1	Y
10/21/2011	277+45	8974	Rch Pit: 130.4 PCF @6.7%	127.7	8.1	97.9	1.4	Y
10/21/2011	277+40	8975.5	Rch Pit: 130.4 PCF @6.7%	128.7	7.4	98.7	0.7	Y
10/22/2011	277+30	8977	Rch Pit: 130.4 PCF @6.7%	126.6	7.4	97.1	0.7	Y
10/23/2011	276+15	8978.5	Rch Pit: 130.4 PCF @6.7%	130	6.9	99.7	0.2	Y
10/24/2011	277+10	8980	Rch Pit: 130.4 PCF @6.7%	129.9	6.9	99.6	0.2	Y
10/25/2011	277+00	8981.5	Rch Pit: 130.4 PCF @6.7%	126.4	6.3	96.9	-0.4	Y
10/27/2011	276+50	8983	Ten Pit: 137.2 PCF @ 4.3%	133.9	4.6	97.6	0.3	Y
10/28/2011	277+50	8984.5	Ten Pit: 137.2 PCF @ 4.3%	136.3	5.3	99.3	1	Y
10/29/2011	277+00	8986	Ten Pit: 137.2 PCF @ 4.3%	130.9	4	95.4	-0.3	Y
10/30/2011	276+70	8988	Ten Pit: 137.2 PCF @ 4.3%	137.1	5.1	99.9	0.8	Y
10/30/2011	276+30	8990.5	Ten Pit: 137.2 PCF @ 4.3%	135.1	4.9	98.5	0.6	Y

See example of Contractor Daily Test Report (submitted to FHWA each day)

support documentation for contractor testing (site 5 embankment testing report)

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REPORT OF FIELD DENSITY T

Client:		October 30, 2011
Project:	WY ERFO 261 Cedar Pass Road, WY	Project No: 11-1490-T
Item Tested:	Street Subgrade	Report No: 50
		Test No's.: 1 through 2

Test	Location: Site 5	Elevation	MDD	OMC	Dry Dens.	Moist	% Comp.	Soil Type
1	Station 276 + 70	8988'	137.2	4.3	137.1	5.1	99.9	Gravelly, Silty SAND
2	Station 276 + 30	8990.5'	137.2	4.3	135.1	4.9	98.5	Gravelly, Silty SAND

COMPACTION SPECIFICATIONS

Area: Street Subgrade	Compaction: $\geq 95\%$ of ASHTO T-99	Moisture: +/-2 pts OMC
-----------------------	---------------------------------------	------------------------

INDICATION OF DENSITY TEST PASS OR FAILURE

	<p>This report presents opinions as a result of our observation of fill placement. We have relied on the contractor to continue applying the recommended compactive effort and moisture to the fill during times when our observer is not observing operations. Tests are made of the fill only as believed necessary to calibrate our observer's judgment. Test data are not the sole basis for opinions on whether the fill meets specifications. Our tests indicate only the field dry density and moisture content of the material sampled. The quality and swell potential of the material is not considered herein.</p> <p>Periodic Observation of fill placement being continued unless otherwise advised.</p>
<input checked="" type="checkbox"/> Pass	In our opinion the fill has been compacted to the spec. requirements as indicated by test number 1 through 2.
<input type="checkbox"/> Failure	In our opinion fill does not meet specified requirements as indicated by Test No. (s) and should be removed or reworked. Contractor has been advised.
<input type="checkbox"/> Remarks:	
Field Observer: BA Reviewed By: DP	

support documentation for contractor testing (site 5 aggregate testing report)

Geotechnical • Environmental • Materials Testing

REPORT OF FIELD DENSITY TEST RESULTS

Client:		Date:	October 30, 2011
Project:	WY ERFO 261 Cedar Pass Road, WY	Project No:	11-1490-T
Item Tested:	Street Subgrade	Report No:	51
		Test No's.:	1 through 4

Test	Location: Site 5	Elevation	MDD	OMC	Dry Dens.	Moist	% Comp.	Soil Type
1	Station 277 + 50 Left 2' Offset	Grade	145.7	6.4	138.9	5.7	95.3	Base Coarse Gravel with Silt and Sand
2	Station 277 + 50 Right 2' Offset	Grade	145.7	6.4	140.0	5.4	96.1	Base Coarse Gravel with Silt and Sand
3	Station 276 + 65 Left 2' Offset	Grade	145.7	6.4	141.2	6.8	96.9	Base Coarse Gravel with Silt and Sand
4	Station 276 + 65 Right 2' Offset	Grade	145.7	6.4	138.4	8.3	95.0	Base Coarse Gravel with Silt and Sand

COMPACTION SPECIFICATIONS

Area: Street Subgrade	Compaction: ≥ 95% of ASHTO T-99	Moisture: +/-2 pts OMC
------------------------------	--	-------------------------------

INDICATION OF DENSITY TEST PASS OR FAILURE

	<p>This report presents opinions as a result of our observation of fill placement. We have relied on the contractor to continue applying the recommended compactive effort and moisture to the fill during times when our observer is not observing operations. Tests are made of the fill only as believed necessary to calibrate our observer's judgment. Test data are not the sole basis for opinions on whether the fill meets specifications. Our tests indicate only the field dry density and moisture content of the material sampled. The quality and swell potential of the material is not considered herein.</p> <p>Periodic Observation of fill placement being continued unless otherwise advised.</p>
<input type="checkbox"/> Pass	In our opinion the fill has been compacted to the spec. requirements as indicated by test number 1 through 4.
<input type="checkbox"/> Failure	In our opinion fill does not meet specified requirements as indicated by Test No. (s) and should be removed or reworked. Contractor has been advised.
<input type="checkbox"/> Remarks:	
Field Observer: BA	
Reviewed By: DP	

SECTION 2: STATION ITEMS

15206 Slope, Reference & Clearing Stake Page 20

GENERAL NOTE:

The items shown here are examples only - all measurement, documentation, and payment will conform to the project contract requirements regardless of what is shown here. Included here are examples of some of the many documentation types that may be required. Often documentation such as certifications and qualifications may be submitted and accepted once and then referenced accordingly instead of attaching additional copies for each pay note or payment period. Many documentation items are required prior to production, delivery, or placement; required documentation should be provided at the appropriate time and not necessarily at time of payment.

NOTE ON STA ITEMS:

Items paid by the STA are generally items that include many miles of continuous work (i.e. Staking, Ditch Reconditioning, Pulverizing, and Rumble Strip). A Station is generally paid once every 50' or 100' (i.e. for intervals of 50', work from station 100+00 to 200+00 = 2 stations). Please review the plans and specifications for payment intervals on your specific project. Payment by station is determined from the approved centerline referencing stakes. Station quantities shown in the Plans are estimates and are generally very accurate, but only actually ordered and performed quantities are paid. Please refer to the FP, the Special Contract Requirements, and plans of your project for detailed instructions prior to submitting any pay notes.



U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
Central Federal Lands Highway Division
12300 W. Dakota Ave. Lakewood, Colorado 80228

Item Quantity Pay Note Sheet

Date:

Project Number: Project Name:

Account:

Pay Note Information:

Pay Item #: Item Description: Pay Unit:

Item Line #: Item Type:

Pay Note #: Pay Period:

Pay Note Entry:

Work Start Date: Work End Date:

Location/Description:

Clearing and Grubbing Staking: 10/24/10 & 10/28/10, STATION 85+80 to 126+00 (50' intervals)*

*See Slope, Reference, and Clearing & Grubbing Stake Daily Totals Spreadsheet

Remarks/Calculations:

19.00 STA + 7.67 STA = 26.67 STA

Pay 26.67 STA

Support Documentation/References:

(1) Slope, Reference, and Clearing & Grubbing Stake Daily Totals Spreadsheet

Measured By:

TOTAL QUANTITY:

Interim Measurement Final Measurement

By signature below, I hereby certify that the measurements and calculations shown above are correct to the best of my knowledge and that the quantity being measured is subject to direct payment for the identified item under contract.

Contractor Representative (Print):

Date:

Contractor Representative (Signature):

Approved by FHWA Representative (Print):

Date:

Approved by FHWA Representative (Signature):

Checked by FHWA Representative (Signature):

Date:

slope, reference, and clearing & grubbing support documentation

SD PFH 17-1(6) Hill City to Lead

15206-0000: Slope, Reference, and Clearing & Grubbing Stake Daily Totals

Pay Period 3 (10-1-2010 to 10-31-2010)

Pay Unit: STA

SLOPE STAKING (1/3 of total work for this item)					
DATE	STA START	STA END	INTERVAL STAKED (FEET)	TOTAL STA STAKED	1/3 OF TOTAL STA STAKED (PAY AMOUNT)
10/1/2010	11+00	21+50	50	21	7.00
10/2/2010	22+00	34+00	50	24	8.00
10/3/2010	34+50	52+00	50	35	11.67
10/4/2010	52+50	74+00	50	43	14.33
10/7/2010	74+50	98+00	50	47	15.67
10/8/2010	98+50	114+00	50	31	10.33
10/10/2010	114+50	120+00	50	11	3.67

TOTALS = 212

70.67

REFERENCE STAKING (1/3 of total work for this item)					
DATE	STA START	STA END	INTERVAL STAKED (FEET)	TOTAL STA STAKED	1/3 OF TOTAL STA STAKED (PAY AMOUNT)
10/11/2010	11+00	33+50	50	45	15.00
10/14/2010	34+00	57+00	50	46	15.33
10/15/2010	57+50	87+00	50	59	19.67
10/16/2010	87+50	100+00	50	25	8.33
10/17/2010	100+50	114+00	50	27	9.00

TOTALS = 202

67.33

CLEARING AND GRUBBING STAKING (1/3 of total work for this item)					
DATE	STA START	STA END	INTERVAL STAKED (FEET)	TOTAL STA STAKED	1/3 OF TOTAL STA STAKED (PAY AMOUNT)
10/20/2010	11+00	55+00	50	88	29.33
10/21/2010	55+50	85+00	50	59	19.67
10/24/2010	85+50	114+00	50	57	19.00
10/28/2010	114+50	126+00	50	23	7.67

TOTALS = 227

75.67

Section 3: EACH ITEMS

15215 Survey and Staking, Drainage Structure..... Page 22
25125 Boulder Page 25
63316 Remove and Reset Signs Page 27

GENERAL NOTE:

The items shown here are examples only - all measurement, documentation, and payment will conform to the project contract requirements regardless of what is shown here. Included here are examples of some of the many documentation types that may be required. Often documentation such as certifications and qualifications may be submitted and accepted once and then referenced accordingly instead of attaching additional copies for each pay note or payment period. Many documentation items are required prior to production, delivery, or placement; required documentation should be provided at the appropriate time and not necessarily at time of payment.

NOTE ON EACH ITEMS:

Items paid by the EACH are generally items that are appropriate to track on an individual basis (i.e. placing boulders, placing a gate, culvert end sections, traffic control cones, etc.). Payment by each is the actual number of units completed and accepted. Quantities shown in the Plans are estimates; only actually ordered and performed quantities are paid. Generally, when submitting for payment on items paid by the EACH, it is required to show on the paynote when the item was completed, where the item was placed (stationing/offset/sketch on the plans) and how many items were placed. Please refer to the FP, the Special Contract Requirements, and plans of your project for detailed instructions prior to submitting any pay notes.



U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
Central Federal Lands Highway Division
12300 W. Dakota Ave. Lakewood, Colorado 80228

Item Quantity Pay Note Sheet

Date:

Project Number: Project Name:

Account:

Pay Note Information:

Pay Item #: Item Description: Pay Unit:

Item Line #: Item Type:

Pay Note #: Pay Period:

Pay Note Entry:

Work Start Date: Work End Date:

Location/Description:

Pipe location:
9/15/08: 18+855
9/17/08: 17+520, 17+697, 17+832, 18+050

Remarks/Calculations:

Each culvert above has been plotted and staked per contract requirements.

Total = 5 EACH

Support Documentation/References:

Approved pipe calculations/plots for each pipe being paid for (only 18+855 shown in this example)

Measured By:

TOTAL QUANTITY:

Interim Measurement Final Measurement

By signature below, I hereby certify that the measurements and calculations shown above are correct to the best of my knowledge and that the quantity being measured is subject to direct payment for the identified item under contract.

Contractor Representative (Print):

Date:

Contractor Representative (Signature):

Approved by FHWA Representative (Print):

Date:

Approved by FHWA Representative (Signature):

Checked by FHWA Representative (Signature):

Date:

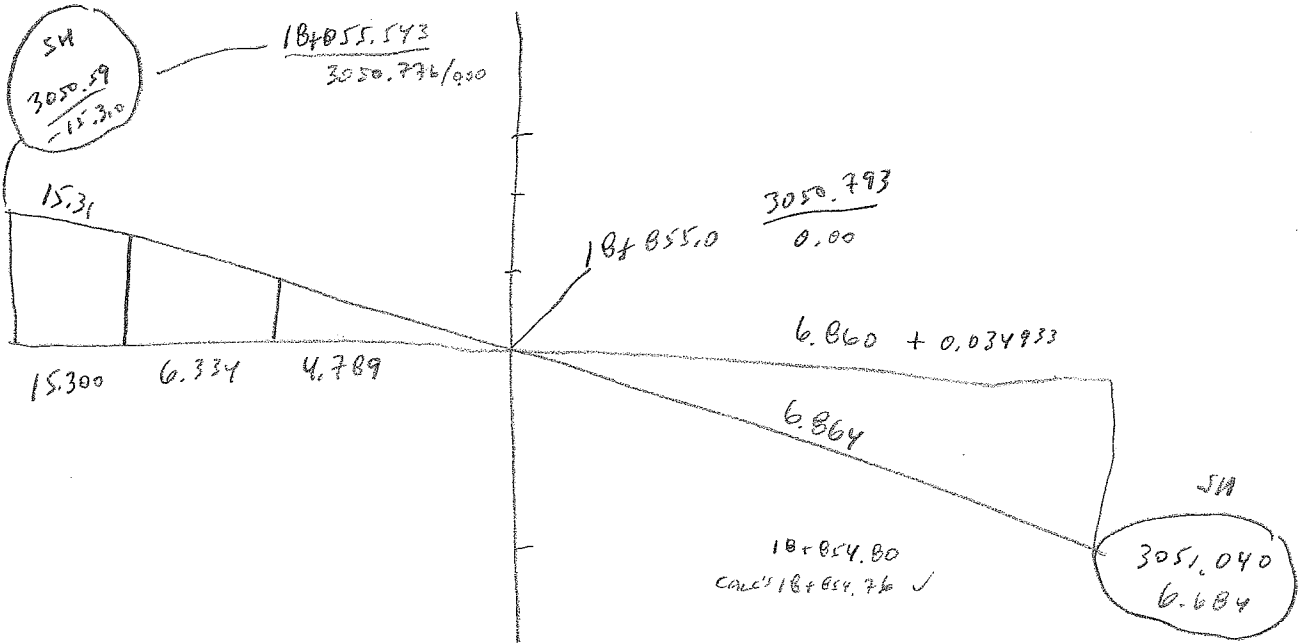
MADE BY DATE PROJECT
 CHECKED BY DATE
 CALCULATIONS FOR 18x855 SHEET NO.

DESIGN L = 37m; 600mm

drainage structure survey & staking support documentation

PIPE = METAL; Fin > 3.5 m

2° SNEW



LT TOE SM
 $\frac{3048.45}{-19.5}$ $\frac{3050.59}{-15.31}$

= $\frac{2.14}{4.19} = 1.76:1$ ✓

2:1 Fin = $0.6 - 0.3 = 0.3 \times 2 = 0.6$ m from
 TOE = 18.9

RT TOE SM
 $\frac{3044.430}{20.40}$ $\frac{3051.040}{6.664} = \frac{6.61}{13.716} = 2.075:1$

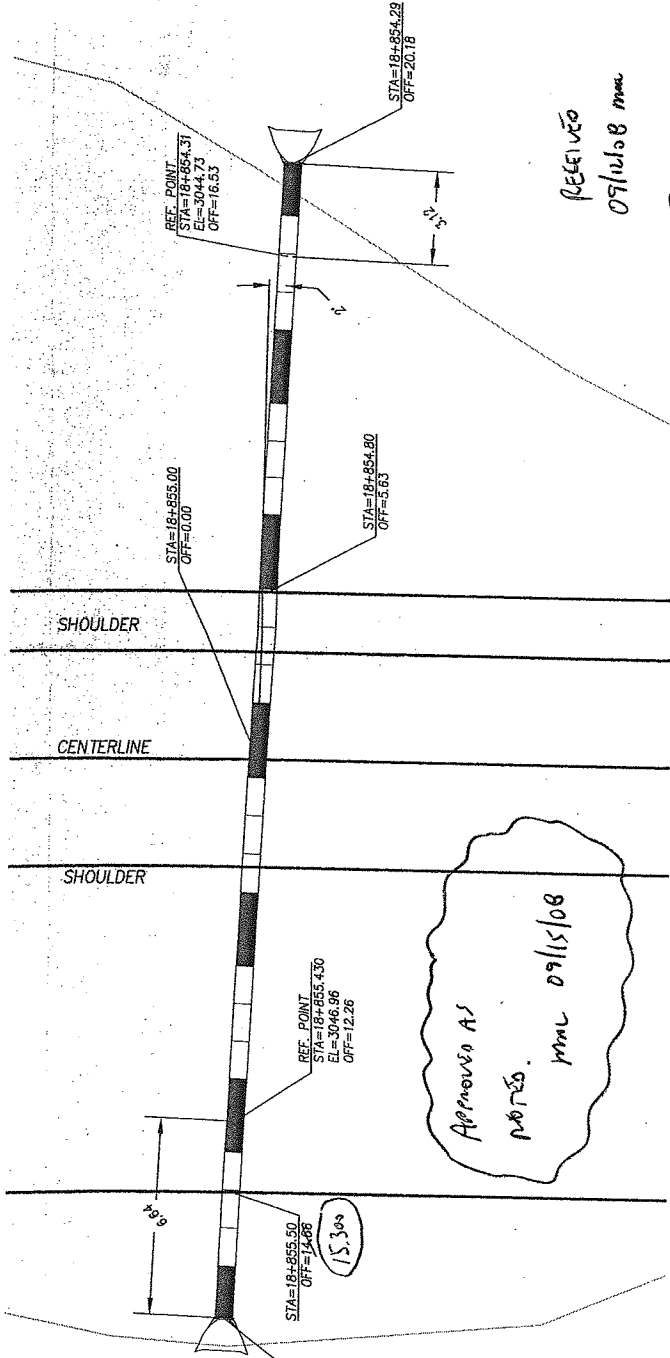
2:1 Fin = $0.6 - 0.3 = 0.3 \times 2 = 0.6$ m from
 TOE = 19.80 m

PIPE HGT = $\frac{3.92}{39.10} = 10.026 = 39.276 = 128.9'$

128' = 39.014 m
 = 38.817 m
 - 18.91

NO. MET
 $\frac{3048.39}{-18.91}$

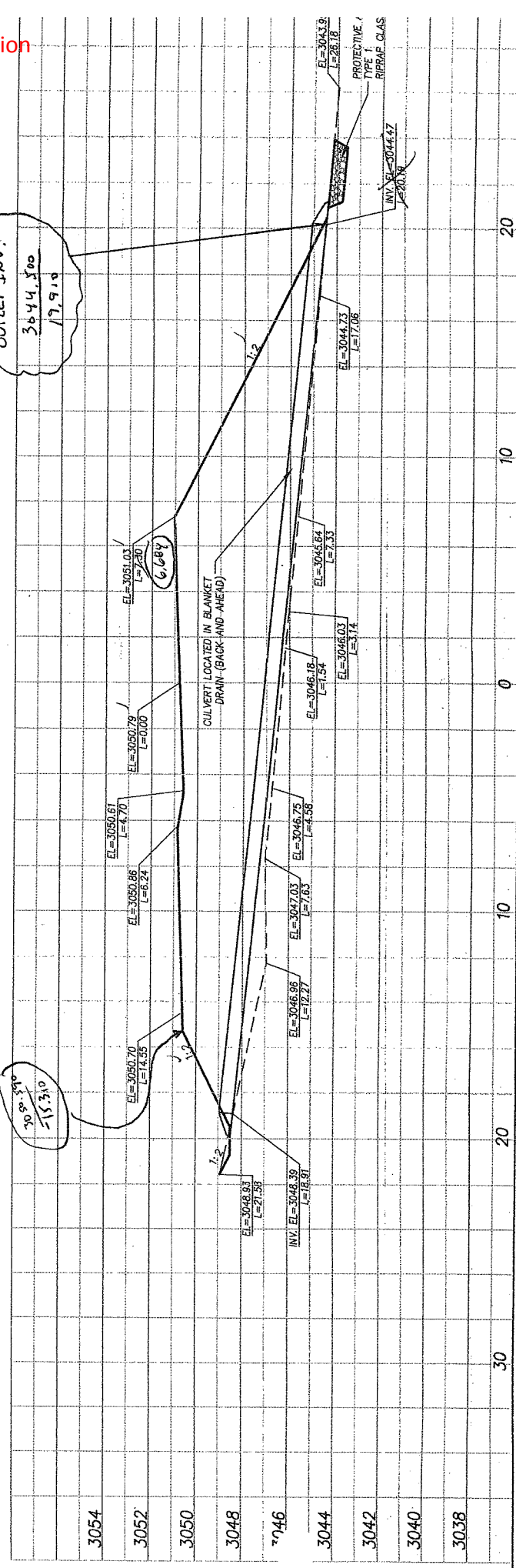
OUTLET
 $\frac{3044.20}{19.91} = \frac{3.89}{38.81} = 39.014 \text{ m} = 128'$



Drop = 3.89 m
 PIPE IZ L = 38.820 m
 PIPE UZ-6TH = 39.014 m (128.0')
 Slope = 10.02 %
 PIPE SHALL BE METAL

RECEIVED
 09/16/08 mm
 OUTLET INV.
 3044.500
 17.910

30° 34' 0"
 -15.310



3054	3052	3050	3048	3046	3044	3042	3040	3038	30	0	10	20
------	------	------	------	------	------	------	------	------	----	---	----	----

SEVEMILE-GOOSEBERRY ROAD PHASE II
 UTAH FOREST HIGHWAY PROJECT P.F.H. 39-1(2)
 SEVIER COUNTY--FISH LAKE NATIONAL FOREST
 CULVERT CROSSING 18+855

PEPG ENGINEERING, L.L.C.
 421 W. 12300 S. #400 • DRAPER, UT 84020
 PH: (801) 562-2521 • FAX: (801) 562-2551

DESIGN STA:	18+855	CULVERT STA:	18+855.00
PIPE-HORIZ. LENGTH:	39.10-M	PIPE LENGTH:	39.39 M-59.04
INLET ELEV:	3048.39	OUTLET ELEV:	3044.47

STAKED BY: PEPG ENGINEERING



U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
Central Federal Lands Highway Division
12300 W. Dakota Ave. Lakewood, Colorado 80228

Item Quantity Pay Note Sheet

Date:

Project Number: Project Name:

Account:

Pay Note Information:

Pay Item #: Item Description: Pay Unit:

Item Line #: Item Type:

Pay Note #: Pay Period:

Pay Note Entry:

Work Start Date: Work End Date:

Location/Description:

-6/11/11: 10 boulders placed every 15 feet from Station 29+80 to 31+30 (as approved by the CO)
-6/12/11: 14 boulders placed every 15 feet from Station 31+45 to 33+55 (as approved by the CO)

Remarks/Calculations:

-(10 boulders placed on 6/11/11) + (14 boulders placed on 6/12/11) = 24 BOULDERS TOTAL
-Pay 24 boulders EACH

Support Documentation/References:

See attached plan sheet, D14 for placement details

Measured By:

TOTAL QUANTITY: 24 (EACH)

Interim Measurement Final Measurement

By signature below, I hereby certify that the measurements and calculations shown above are correct to the best of my knowledge and that the quantity being measured is subject to direct payment for the identified item under contract.

Contractor Representative (Print):

Date:

Contractor Representative (Signature):

Approved by FHWA Representative (Print):

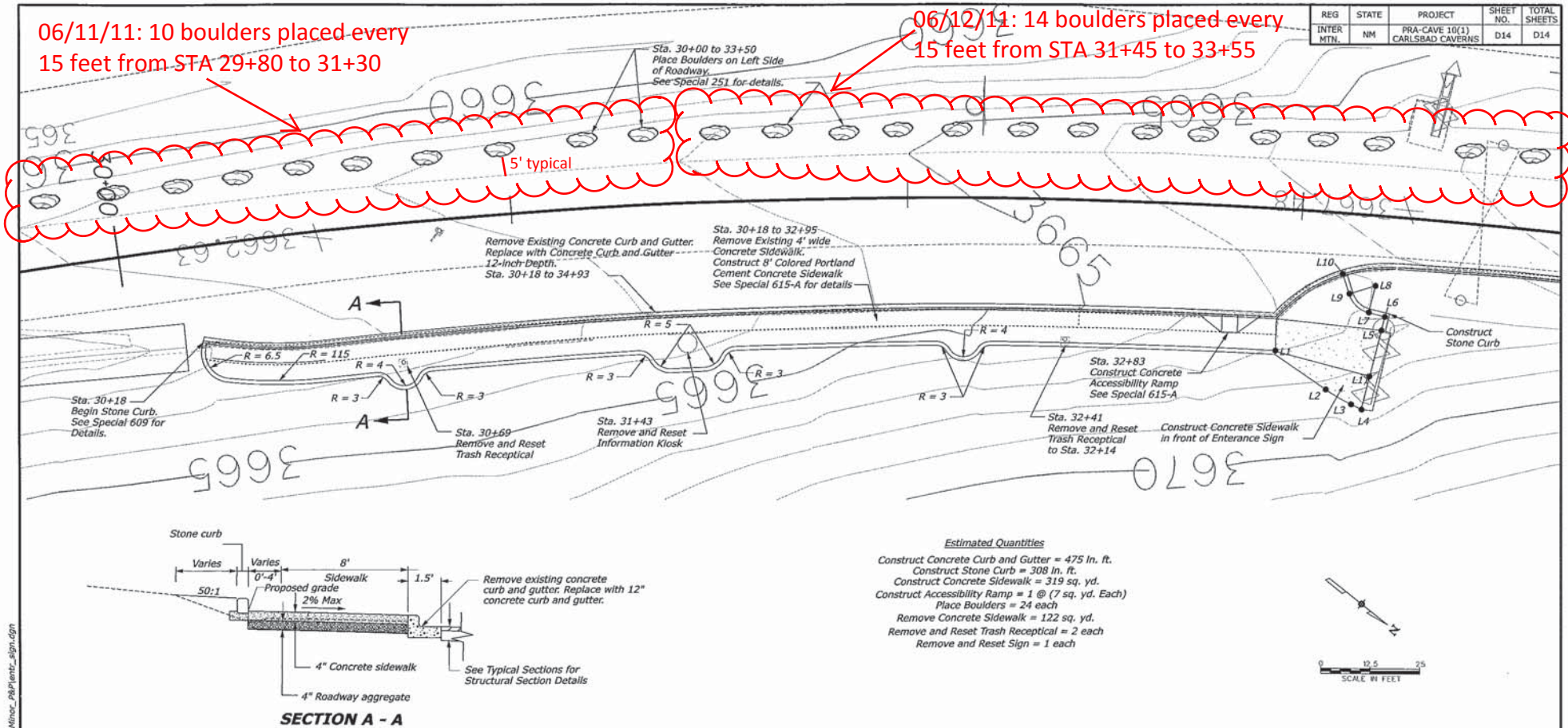
Date:

Approved by FHWA Representative (Signature):

Checked by FHWA Representative (Signature):

Date:

boulder support documentation



DESIGN POINT SUMMARY								
Point Number	Station	Offset (ft.)	Side	Northing	Easting	Radius (ft.)	Proposed Elevation	Remarks
L1	32+95.33	35.82	Right	428600.225	526299.632		3666.99	
L2	33+09.17	44.76	Right	428616.373	526299.336		3667.86	
L3	33+16.06	48.01	Right	428623.719	526298.269		3668.13	
L4	33+18.82	49.10	Right	428626.529	526297.677		3668.10	
L5	33+22.44	28.79	Right	428618.109	526278.860		3667.10	Begin 6" Stone Curb
L6	33+23.04	25.29	Right	428616.650	526275.626		3667.00	
L7	33+18.77	24.57	Right	428612.775	526277.374		3666.77	
L8	33+19.97	17.67	Right	428609.897	526270.992	7		
L9	33+13.38	20.25	Right	428605.954	526276.776		3666.39	
L10	33+11.41	15.31	Right	428601.564	526273.784		3666.12	End 6" Stone Curb
L11	33+20.34	40.61	Right	428623.011	526289.813		3667.46	

U.S. DEPARTMENT OF TRANSPORTATION
 FEDERAL HIGHWAY ADMINISTRATION
 CENTRAL FEDERAL LANDS HIGHWAY DIVISION

U.S. CUSTOMARY SPECIAL
**ENTRANCE SIGN PARKING
 AREA REHABILITATION
 SCHEDULE A**

SPECIAL
8

8/19/2009 9:36:32 AM N:\HW\cave10\J\Roadway\Sheets\D-Misc_P&P\entr_sign.dgn



U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
Central Federal Lands Highway Division
12300 W. Dakota Ave. Lakewood, Colorado 80228

Item Quantity Pay Note Sheet

Date:

Project Number: Project Name:

Account:

Pay Note Information:

Pay Item #: Item Description: Pay Unit:

Item Line #: Item Type:

Pay Note #: Pay Period:

Pay Note Entry:

Work Start Date: Work End Date:

Location/Description:

See attached remove and reset sign support documentation spreadsheet for location and description of work.

Remarks/Calculations:

-Pay 20 EACH

Support Documentation/References:

Remove and reset sign support documentation spreadsheet

Measured By:

TOTAL QUANTITY: 20 (EACH)

Interim Measurement Final Measurement

By signature below, I hereby certify that the measurements and calculations shown above are correct to the best of my knowledge and that the quantity being measured is subject to direct payment for the identified item under contract.

Contractor Representative (Print):

Date:

Contractor Representative (Signature):

Approved by FHWA Representative (Print):

Date:

Approved by FHWA Representative (Signature):

Checked by FHWA Representative (Signature):

Date:

remove and reset signs support documentation

63316 Remove and Reset Signs

Removed/ Reset	Work Completed	Station	Side	Sign
		5+75	RT	Reverse turn sign right
		11+75	RT	Pavement Ends
		14+50	LT	Reverse turn sign right
x/x	5/27/2009	25+68	Rt	Lights on for safety
x/x	5/27/2009	54+95	RT	MP 1
x/x	5/27/2009	107+75	RT	MP 2
x/x	5/24/2009	160+55	RT	MP 3
x/x	5/24/2009	213+35	RT	MP 4
x/x	5/24/2009	266+15	RT	MP 5
x/x	5/24/2009	318+95	RT	MP 6
x/x	5/24/2009	371+75	RT	MP 7
x/x	5/19/2009	424+55	RT	MP 8
x/x	5/19/2009	450+35	LT	Rd #7830
x/x	5/12/2009	450+34	LT	22 National Forest
x/x	5/12/2009	478+69	RT	MP 9
x/x	5/12/2009	530+15	RT	MP 10
x/x	5/12/2009	563+50	LT	Rd #7860
x/x	5/7/2009	582+95	RT	MP 11
x/x	5/7/2009	605+00	RT	Intersection Ahead
x/x	5/7/2009	607+80	RT	Satsop Center 7/Wynoochee Lake 6
x/x	5/7/2009	610+64	RT	22 National Forest
x/x	5/7/2009	613+34	LT	Montesano 30
x/x	5/7/2009	614+83	RT	Lights on for safety

= 20 TOTAL

Note: Paid per post.
A post with multiple
signs attached is
paid as 1 EACH.

Section 4: HOUR/WEEK ITEMS

62201 Motor Grader Page 29
63510 Temporary Traffic Control, Traffic and Safety Supervisor Page 30
63506 Temporary Traffic Control, Flagger Page 41

GENERAL NOTE:

The items shown here are examples only - all measurement, documentation, and payment will conform to the project contract requirements regardless of what is shown here. Included here are examples of some of the many documentation types that may be required. Often documentation such as certifications and qualifications may be submitted and accepted once and then referenced accordingly instead of attaching additional copies for each pay note or payment period. Many documentation items are required prior to production, delivery, or placement; required documentation should be provided at the appropriate time and not necessarily at time of payment.

NOTE ON HOUR ITEMS:

Items paid by the Hour are only paid when ordered by the CO. Hour quantities shown in the Plans are estimates; only actually ordered and performed quantities are paid. Please refer to the FP, the Special Contract Requirements, and plans for your project for detailed instructions prior to submitting any pay notes. In order to fully provide documentation for measurement and payment, advance consideration should be given to tracking the individual persons or equipment that are used and the specific start and stop times. For clarity, hourly ordered work should be completed separately from other items when possible.



U.S DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
Central Federal Lands Highway Division
12300 W. Dakota Ave. Lakewood, Colorado 80228

Item Quantity Pay Note Sheet

Date: 10/11/2009

Project Number: ND PRA THRO 10(3) Project Name: North Unit Scenic Drive

Account: Schedule C

Pay Note Information:

Pay Item #: 62201-0900 Item Description: Wheel Loader,2 Cubic Yard Capacity Pay Unit: Hours

Item Line #: N/A (for EEBACS only) Item Type: N/A (for EEBACS only)

Pay Note #: 123 Pay Period: 5

Pay Note Entry:

Work Start Date: 10/08/2009 Work End Date: 10/11/2009

Location/Description:

(1) Station 385+00 to 395+00 LT on 10/11/09: Move boulders from 1200 to 1730 = 5.5 hours*
(2) Station 385+00 to 410+10 RT on 10/10/09: Move NPS stockpile from 0700 to 1530 (1/2 hr lunch) = 8 hours*
(3) Station 227+00 parking lot entrance on 10/09/09: Move NPS stockpile from 0700 to 1530 (1/2 hr lunch) = 8 hours*
(4) Station 87+50 cross road pipe RT on 10/08/09 from 0700 to 1030 = 3.5 hours*

*Extra work directed by CFL project engineer and performed by Tom the Operator on the CAT 950H

Remarks/Calculations:

From Location/Description:
Total quantity (Hours) = 5.5 + 8 + 8 + 3.5 = 25 Hours

Support Documentation/References:

N/A

Measured By: Joe the Inspector & Bob the Contractor

TOTAL QUANTITY: 25.0 (Hours)

Interim Measurement Final Measurement

By signature below, I hereby certify that the measurements and calculations shown above are correct to the best of my knowledge and that the quantity being measured is subject to direct payment for the identified item under contract.

Contractor Representative (Print): Bob the Contractor

Date: 10/11/09

Contractor Representative (Signature):

Approved by FHWA Representative (Print): Joe the Inspector

Date: 10/11/09

Approved by FHWA Representative (Signature):

Checked by FHWA Representative (Signature): Jane and the Project Engineer

Date: 10/11/09



U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
Central Federal Lands Highway Division
12300 W. Dakota Ave. Lakewood, Colorado 80228

Item Quantity Pay Note Sheet

Date:

Project Number: Project Name:

Account:

Pay Note Information:

Pay Item #: Item Description: Pay Unit:

Item Line #: Item Type:

Pay Note #: Pay Period:

Pay Note Entry:

Work Start Date: Work End Date:

Location/Description:

Certified Traffic Control Supervisor, Cassie Fitzhugh worked 7 consecutive days from 08/15/10 to 08/21/10.
See attached Daily Traffic Control Reports

Remarks/Calculations:

Per SCR 635.26, measure Traffic and Safety Supervisor by the week (7 consecutive days, beginning and ending at midnight on the same day of the week) for the work described in Subsection 156.08. Payment will be full compensation for the work prescribed.

08/15/10 to 08/21/10 = 1 week

Support Documentation/References:

Scanned T.C.S Certifications, Daily Traffic Control Reports

Measured By:

TOTAL QUANTITY:

1 (WEEK)

Interim Measurement Final Measurement

By signature below, I hereby certify that the measurements and calculations shown above are correct to the best of my knowledge and that the quantity being measured is subject to direct payment for the identified item under contract.

Contractor Representative (Print):

Date:

Contractor Representative (Signature):

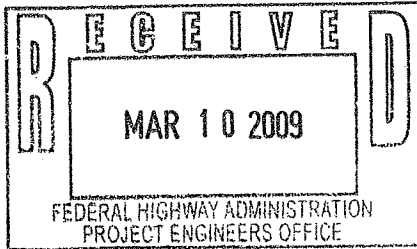
Approved by FHWA Representative (Print):

Date:

Approved by FHWA Representative (Signature):

Checked by FHWA Representative (Signature):

Date:



 COPY

Oregon Department of Transportation

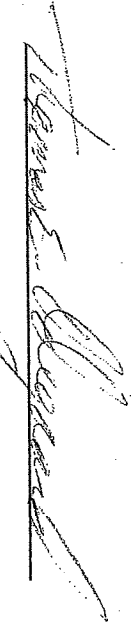
Certification for

TRAFFIC CONTROL SUPERVISOR

Cassie Fitzhugh

Evergreen Safety Council presents this certificate to the above named person, to identify their having met the Oregon Department of Transportation experience and examination standards, as administered by the Traffic Control Oversight Committee for the classification of Traffic Control Supervisor.

Attested to on this the *13th* day of *July*, 2004


President



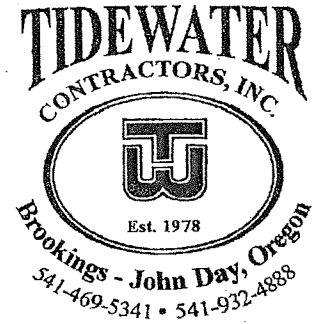

Instructor

TIDEWATER CONTRACTORS, INC.

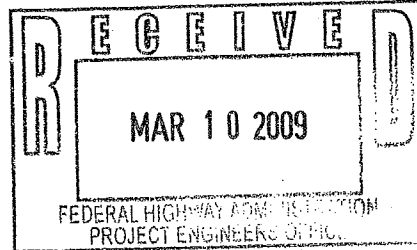
16156 Hwy 101 South X P.O. Box 1956 X Brookings, Oregon 97415

Phone - (541)469-5341 X Fax - (541)469-5543

Dave Baldwin Jess Fitzhugh
CCB # 29995 CCLB# 456696



 COPY



March 5, 2009

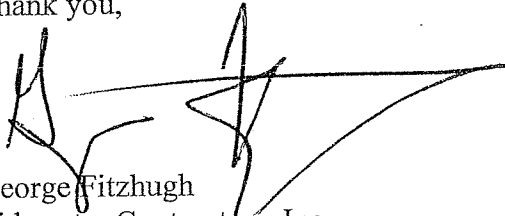
Re: CA PFH 112-1(1) Traffic Control Supervisor and Traffic Control Plan

Tidewater Contractors, Inc. Traffic Control Supervisor will be Cassie Fitzhugh. Cassie started out as a Traffic Control Flagger and Pilot Car Driver over 11 years ago. For the past 7 years she has set-up and maintained most of Tidewaters Traffic Control operations for ODOT and Cal Trans. In July of 2004 Cassie passed her Traffic Control Supervisor course for ODOT.

In the event that Cassie is unavailable Elaine Davis will be her replacement. Elaine set-up and maintained the Traffic Control operations for Tidewater when Cassie was unavailable. In March of 2008 Elaine passed her Traffic Control Supervisor course for ODOT.

Tidewater will comply with Standard Drawings 635-5 thru 635-9 and 635-13 and the site specific Traffic Control Drawings on pages T30, T31 and T32 when applicable. Tidewater will also comply with Section 108 and 156 regarding Traffic Control.

Thank you,



George Fitzhugh
Tidewater Contractors, Inc.

traffic control supervisor support documentation

This certifies that the person identified on this card has successfully met the training requirements to be awarded Oregon Traffic Control Supervisor (TCS) status.



Training presented by:
Evergreen Safety Council

Instructor's name (print): Dave White

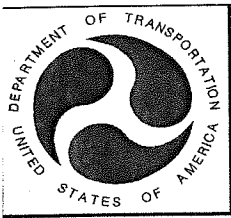
Training Location: Salem, OR

Training is MUTCD Compliant.
To verify information on this card contact
Evergreen Safety Council at 1-800-521-0778.

OREGON CERTIFIED TRAFFIC CONTROL SUPERVISOR

Name: Cassie A Fitzhugh
ID No. #: 020366
Certification #: 03729
Issue Date: 1/26/2010
Date of Expiration: 1/31/2013

Valid with government issued photo ID



Federal Highway Administration Central Federal Lands Highway Division



DAILY TRAFFIC CONTROL REPORT

PROJECT NAME & NUMBER South Fork Smith River Road / CA PFH 112-1 (1)		DATE 8-21-10	CONTRACT NO. DTFH68-09-C-00010
Pay Item: 63510-0100 Traffic and Safety Supervisor			
TECHNICIAN	DAY <input type="checkbox"/> S <input type="checkbox"/> M <input type="checkbox"/> T <input type="checkbox"/> W <input type="checkbox"/> T <input type="checkbox"/> F <input checked="" type="checkbox"/> S	TEMPERATURE HIGH <input type="checkbox"/> LOW <input type="checkbox"/>	TCS: Cassie Fitzhugh
WEATHER <input checked="" type="checkbox"/> CLEAR <input type="checkbox"/> PT. CLOUDY <input type="checkbox"/> CLOUDY <input type="checkbox"/> RAIN <input type="checkbox"/> SNOW		WIND CONDITIONS <input checked="" type="checkbox"/> CALM <input type="checkbox"/> LIGHT <input type="checkbox"/> STRONG	ARRIVAL TIME
			DEPARTURE TIME

TODAY'S OPERATIONS:

A) Rock Crk)

B) Bldr Crk)

C) *Schnaubel ~ shoring @ both walls*

D)

} Dust Control

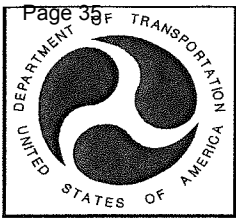
EVIDENCE OF AN ACCIDENT	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
DAMAGED TRAFFIC CONTROL DEVICES	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
ADEQUATE BUFFER SPACE	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
IS THE WORK AREA PROTECTED	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
MATERIALS PROPERLY STORED	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
ARE LANE CLOSURES IN ACCORD WITH ALLOWED HOURS	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
TRAFFIC DELAYS MEET CONTRACT SPECIFICATIONS	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO

	NUMBER USED	A:	RCK:	B:	BLDR:	C:	D:
PILOT VEHICLE	1					1	
FLAGGERS	2					2	
CONSTRUCTION SIGNS	6					6	
BARRICADES							
DRUMS	96	18			3	75	
WARNING LIGHTS	1					1	
TUBULAR TRAFFIC MARKERS	231	32	47	10	37	88	17
PAVEMENT MARKINGS							
ARROW BOARD							
VARIABLE MESSAGE BOARD							
TEMPORARY CONCRETE BARRIER	117	60				57/3	
OTHER							

LOCATION (STATION #) OF MISSING OR DAMAGED DEVICES

DATE LAST CLEANED:	CONES	LIGHTS	SIGNS	BARRICADES

TSS SIGNATURE <i>Cassie Fitzhugh</i>	FHWA SIGNATURE <i>Cassie Fitzhugh</i>	DATE 8/21/10
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Federal Highway Administration
Central Federal Lands Highway Division



DAILY TRAFFIC CONTROL REPORT

PROJECT NAME & NUMBER South Fork Smith River Road / CA PFH 112-1 (1)		DATE 8-20-10	CONTRACT NO. DTFH68-09-C-00010	
Pay Item: 63510-0100 Traffic and Safety Supervisor				
TECHNICIAN	DAY <input type="checkbox"/> S <input type="checkbox"/> M <input type="checkbox"/> T <input type="checkbox"/> W <input type="checkbox"/> T <input checked="" type="checkbox"/> F <input type="checkbox"/> S	TEMPERATURE HIGH °F LOW °F	TCS: Cassie Fitzhugh	
WEATHER <input checked="" type="checkbox"/> CLEAR <input type="checkbox"/> PT. CLOUDY <input type="checkbox"/> CLOUDY <input type="checkbox"/> RAIN <input type="checkbox"/> SNOW		WIND CONDITIONS <input checked="" type="checkbox"/> CALM <input type="checkbox"/> LIGHT <input type="checkbox"/> STRONG		ARRIVAL TIME
TODAY'S OPERATIONS: A) TW ~ still building MSE wall !! Rock Crk) B) Bldr Crk) C) Schnaubel ~ shoring D)				
EVIDENCE OF AN ACCIDENT		<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		
DAMAGED TRAFFIC CONTROL DEVICES		<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		
ADEQUATE BUFFER SPACE		<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		
IS THE WORK AREA PROTECTED		<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		
MATERIALS PROPERLY STORED		<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		
ARE LANE CLOSURES IN ACCORD WITH ALLOWED HOURS		<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		
TRAFFIC DELAYS MEET CONTRACT SPECIFICATIONS		<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		

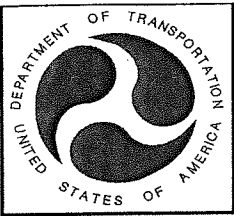
	NUMBER USED	A:	RCK:	B:	BLDR:	C:	D:
PILOT VEHICLE	2	1				1	
FLAGGERS	4	2				2	
CONSTRUCTION SIGNS	12	6				6	
BARRICADES							
DRUMS	96	18			3	75	
WARNING LIGHTS	1					1	
TUBULAR TRAFFIC MARKERS	231	32	47	10	37	88	17
PAVEMENT MARKINGS							
ARROW BOARD							
VARIABLE MESSAGE BOARD							
TEMPORARY CONCRETE BARRIER	117	60				57/3	
OTHER							

LOCATION (STATION #) OF MISSING OR DAMAGED DEVICES

DATE LAST CLEANED: CONES LIGHTS SIGNS BARRICADES

TSS SIGNATURE <i>Cassie Fitzhugh</i>	FHWA SIGNATURE <i>Mark Lee 8/27/10</i>	DATE 8-20-10
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Federal Highway Administration Central Federal Lands Highway Division



DAILY TRAFFIC CONTROL REPORT

PROJECT NAME & NUMBER South Fork Smith River Road / CA PFH 112-1 (1)		DATE 8-19-10	CONTRACT NO. DTFH68-09-C-00010		
Pay Item: 63510-0100 Traffic and Safety Supervisor					
TECHNICIAN		DAY <input type="checkbox"/> S <input type="checkbox"/> M <input type="checkbox"/> T <input checked="" type="checkbox"/> W <input type="checkbox"/> T <input type="checkbox"/> F <input type="checkbox"/> S	TEMPERATURE HIGH °F LOW °F	TCS: Cassie Fitzhugh	
WEATHER <input checked="" type="checkbox"/> CLEAR <input type="checkbox"/> PT. CLOUDY <input type="checkbox"/> CLOUDY <input type="checkbox"/> RAIN <input type="checkbox"/> SNOW		WIND CONDITIONS <input checked="" type="checkbox"/> CALM <input type="checkbox"/> LIGHT <input type="checkbox"/> STRONG		ARRIVAL TIME	DEPARTURE TIME
TODAY'S OPERATIONS: A) TW - Build m&E wall Rock Crk) B) Bldr Crk) C) TW - wall Ex - Schnabel shorting : shotcrete D)					
EVIDENCE OF AN ACCIDENT		<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO			
DAMAGED TRAFFIC CONTROL DEVICES		<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO			
ADEQUATE BUFFER SPACE		<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO			
IS THE WORK AREA PROTECTED		<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO			
MATERIALS PROPERLY STORED		<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO			
ARE LANE CLOSURES IN ACCORD WITH ALLOWED HOURS		<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO			
TRAFFIC DELAYS MEET CONTRACT SPECIFICATIONS		<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO			

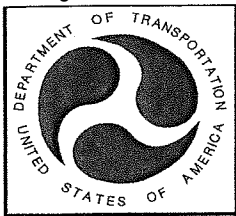
Dust Control

	NUMBER USED	A:	RCK:	B:	BLDR:	C:	D:
PILOT VEHICLE	2	1				1	
FLAGGERS	4	2				2	
CONSTRUCTION SIGNS	12	6				6	
BARRICADES					?		
DRUMS	96	18			3	75	
WARNING LIGHTS	1					1	
TUBULAR TRAFFIC MARKERS	232	32	47	10	32	88	17
PAVEMENT MARKINGS							
ARROW BOARD							
VARIABLE MESSAGE BOARD							
TEMPORARY CONCRETE BARRIER	117	60				57/3	
OTHER							

LOCATION (STATION #) OF MISSING OR DAMAGED DEVICES

DATE LAST CLEANED: CONES LIGHTS SIGNS BARRICADES

TSS SIGNATURE <i>Cassie Fitzhugh</i>	FHWA SIGNATURE <i>[Signature]</i>	DATE 8/19/10
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Federal Highway Administration Central Federal Lands Highway Division



DAILY TRAFFIC CONTROL REPORT

PROJECT NAME & NUMBER South Fork Smith River Road / CA PFH 112-1 (1)	DATE 8-18-10	CONTRACT NO. DTFH68-09-C-00010
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Pay Item: 63510-0100 Traffic and Safety Supervisor		
TECHNICIAN	DAY <input type="checkbox"/> S <input type="checkbox"/> M <input type="checkbox"/> T <input checked="" type="checkbox"/> W <input type="checkbox"/> T <input type="checkbox"/> F <input type="checkbox"/> S	TEMPERATURE HIGH _____ °F LOW _____ °F TCS: Cassie Fitzhugh

WEATHER <input checked="" type="checkbox"/> CLEAR <input type="checkbox"/> PT. CLOUDY <input type="checkbox"/> CLOUDY <input type="checkbox"/> RAIN <input type="checkbox"/> SNOW	WIND CONDITIONS <input checked="" type="checkbox"/> CALM <input type="checkbox"/> LIGHT <input type="checkbox"/> STRONG	ARRIVAL TIME	DEPARTURE TIME
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TODAY'S OPERATIONS:

A) TW - Builden MSE wall
Rock Crk)

B)
Bldr Crk)

C) TW - wall ex for shoring - Schraubel - shoring: shotcrete

D)

} Dust Control

EVIDENCE OF AN ACCIDENT	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
DAMAGED TRAFFIC CONTROL DEVICES	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
ADEQUATE BUFFER SPACE	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
IS THE WORK AREA PROTECTED	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
MATERIALS PROPERLY STORED	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
ARE LANE CLOSURES IN ACCORD WITH ALLOWED HOURS	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
TRAFFIC DELAYS MEET CONTRACT SPECIFICATIONS	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO

	NUMBER USED	A:	RCK:	B:	BLDR:	C:	D:
PILOT VEHICLE	2	1				1	
FLAGGERS	4	2				2	
CONSTRUCTION SIGNS	12	6				6	
BARRICADES							
DRUMS	96	18			3	75	
WARNING LIGHTS	1					1	
TUBULAR TRAFFIC MARKERS	231	32	47	10	37	88	17
PAVEMENT MARKINGS							
ARROW BOARD							
VARIABLE MESSAGE BOARD							
TEMPORARY CONCRETE BARRIER	117	60				57/3	
OTHER							

LOCATION (STATION #) OF MISSING OR DAMAGED DEVICES

Weekly Meeting

DATE LAST CLEANED:	CONES	LIGHTS	SIGNS	BARRICADES
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TSS SIGNATURE <i>Cassie Fitzhugh</i>	FHWA SIGNATURE <i>[Signature]</i>	DATE 8-18-10
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Federal Highway Administration Central Federal Lands Highway Division



DAILY TRAFFIC CONTROL REPORT

PROJECT NAME & NUMBER South Fork Smith River Road / CA PFH 112-1 (1)		DATE 8-17-10	CONTRACT NO. DTFH68-09-C-00010
Pay Item: 63510-0100 Traffic and Safety Supervisor			
TECHNICIAN	DAY <input type="checkbox"/> S <input type="checkbox"/> M <input checked="" type="checkbox"/> T <input type="checkbox"/> W <input type="checkbox"/> TH <input type="checkbox"/> F <input type="checkbox"/> S	TEMPERATURE HIGH °F LOW °F	TCS: Cassie Fitzhugh
WEATHER <input checked="" type="checkbox"/> CLEAR <input type="checkbox"/> PT. CLOUDY <input type="checkbox"/> CLOUDY <input type="checkbox"/> RAIN <input type="checkbox"/> SNOW	WIND CONDITIONS <input type="checkbox"/> CALM <input checked="" type="checkbox"/> LIGHT <input type="checkbox"/> STRONG		ARRIVAL TIME DEPARTURE TIME

TODAY'S OPERATIONS:
 A) TD Buiden MSE wall
 Rock Crk)
 B)
 Bldr Crk)
 C) TD Excavator wall for shoring ~ Schnaubel shoring @ C2
 D)

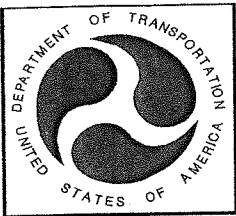
EVIDENCE OF AN ACCIDENT	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
DAMAGED TRAFFIC CONTROL DEVICES	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
ADEQUATE BUFFER SPACE	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
IS THE WORK AREA PROTECTED	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
MATERIALS PROPERLY STORED	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
ARE LANE CLOSURES IN ACCORD WITH ALLOWED HOURS	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
TRAFFIC DELAYS MEET CONTRACT SPECIFICATIONS	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO

	NUMBER USED	A:	RCK:	B:	BLDR:	C:	D:
PILOT VEHICLE	2	1				1	
FLAGGERS	9	2				2	
CONSTRUCTION SIGNS	12	6				6	
BARRICADES							
DRUMS	96	18			3	75	
WARNING LIGHTS	1					1	
TUBULAR TRAFFIC MARKERS	231	32	47	10	37	88	17
PAVEMENT MARKINGS							
ARROW BOARD							
VARIABLE MESSAGE BOARD							
TEMPORARY CONCRETE BARRIER	117	60				57/3	
OTHER							

LOCATION (STATION #) OF MISSING OR DAMAGED DEVICES

DATE LAST CLEANED:	CONES	LIGHTS	SIGNS	BARRICADES
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TSS SIGNATURE <i>Cassie Fitzhugh</i>	FHWA SIGNATURE <i>[Signature]</i>	DATE 8/17/10
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**Federal Highway Administration
Central Federal Lands Highway Division**



WEEKLY TRAFFIC CONTROL REPORT

PROJECT NAME & NUMBER South Fork Smith River Road / CA PFH 112-1 (1)		DATE 8-16-10	CONTRACT NO. DTFH68-09-C-00010
Pay Item: 63510-0100 Traffic and Safety Supervisor		TECHNICIAN	TCS: Cassie Fitzhugh
TECHNICIAN		DAY S M T W T F S <input type="checkbox"/> S <input checked="" type="checkbox"/> M <input type="checkbox"/> T <input type="checkbox"/> W <input type="checkbox"/> T <input type="checkbox"/> F <input type="checkbox"/> S	TEMPERATURE HIGH °F LOW °F
WEATHER <input checked="" type="checkbox"/> CLEAR <input type="checkbox"/> PT. CLOUDY <input type="checkbox"/> CLOUDY <input type="checkbox"/> RAIN <input type="checkbox"/> SNOW		WIND CONDITIONS <input type="checkbox"/> CALM <input checked="" type="checkbox"/> LIGHT <input type="checkbox"/> STRONG	ARRIVAL TIME
			DEPARTURE TIME

TODAY'S OPERATIONS:
 A) TW - Buildin MSE wall
 Rock Crk)
 B)
 Bldr Crk)
 C) Schnausel - Shoring
 D)
 TW - wall Excavation w/ haulaway

Dust Control

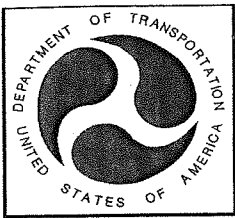
EVIDENCE OF AN ACCIDENT	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
DAMAGED TRAFFIC CONTROL DEVICES	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
ADEQUATE BUFFER SPACE	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
IS THE WORK AREA PROTECTED	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
MATERIALS PROPERLY STORED	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
ARE LANE CLOSURES IN ACCORD WITH ALLOWED HOURS	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
TRAFFIC DELAYS MEET CONTRACT SPECIFICATIONS	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO

	NUMBER USED	A:	RCK:	B:	BLDR:	C:	D:
PILOT VEHICLE	2	1				1	
FLAGGERS	4	2				2	
CONSTRUCTION SIGNS	12	6				6	
BARRICADES							
DRUMS	96	18			3	75	
WARNING LIGHTS	1					1	
TUBULAR TRAFFIC MARKERS	231	32	47	10	37	88	17
PAVEMENT MARKINGS							
ARROW BOARD							
VARIABLE MESSAGE BOARD							
TEMPORARY CONCRETE BARRIER	117	60				57/3	
OTHER							

LOCATION (STATION #) OF MISSING OR DAMAGED DEVICES
 *Weekly Drive Thru = All looked well Nothing new to Report

DATE LAST CLEANED:	CONES	LIGHTS	SIGNS	BARRICADES
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TSS SIGNATURE Cassie A Fitzhugh	FHWA SIGNATURE Cassie A Fitzhugh 8/27/10	DATE 8-16-10
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traffic control supervisor support documentation
Federal Highway Administration
Central Federal Lands Highway Division



DAILY TRAFFIC CONTROL REPORT

PROJECT NAME & NUMBER South Fork Smith River Road / CA PFH 112-1 (1)		DATE 8-15-10	CONTRACT NO. DTFH68-09-C-00010
Pay Item: 63510-0100 Traffic and Safety Supervisor			
TECHNICIAN	DAY 0 S <input type="checkbox"/> M <input type="checkbox"/> T <input type="checkbox"/> W <input type="checkbox"/> T <input type="checkbox"/> F <input type="checkbox"/> S	TEMPERATURE HIGH °F LOW °F	TCS: Cassie Fitzhugh
WEATHER <input type="checkbox"/> CLEAR <input type="checkbox"/> PT. CLOUDY <input type="checkbox"/> CLOUDY <input type="checkbox"/> RAIN <input type="checkbox"/> SNOW		WIND CONDITIONS <input type="checkbox"/> CALM <input type="checkbox"/> LIGHT <input type="checkbox"/> STRONG	ARRIVAL TIME
			DEPARTURE TIME

TODAY'S OPERATIONS:
 A) **Dust Control**
 B)
 C) Bldr Crk)
 D)

EVIDENCE OF AN ACCIDENT	<input type="checkbox"/> YES <input type="checkbox"/> NO
DAMAGED TRAFFIC CONTROL DEVICES	<input type="checkbox"/> YES <input type="checkbox"/> NO
ADEQUATE BUFFER SPACE	<input type="checkbox"/> YES <input type="checkbox"/> NO
IS THE WORK AREA PROTECTED	<input type="checkbox"/> YES <input type="checkbox"/> NO
MATERIALS PROPERLY STORED	<input type="checkbox"/> YES <input type="checkbox"/> NO
ARE LANE CLOSURES IN ACCORD WITH ALLOWED HOURS	<input type="checkbox"/> YES <input type="checkbox"/> NO
TRAFFIC DELAYS MEET CONTRACT SPECIFICATIONS	<input type="checkbox"/> YES <input type="checkbox"/> NO

	NUMBER USED	A:	RCK:	B:	BLDR:	C:	D:
PILOT VEHICLE							
FLAGGERS							
CONSTRUCTION SIGNS							
BARRICADES							
DRUMS							
WARNING LIGHTS							
TUBULAR TRAFFIC MARKERS							
PAVEMENT MARKINGS							
ARROW BOARD							
VARIABLE MESSAGE BOARD							
TEMPORARY CONCRETE BARRIER							
OTHER							

LOCATION (STATION #) OF MISSING OR DAMAGED DEVICES

DATE LAST CLEANED: CONES LIGHTS SIGNS BARRICADES

TSS SIGNATURE <i>Cassie Fitzhugh</i>	FHWA SIGNATURE <i>Cassie Fitzhugh</i>	DATE 8/15/10
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U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
Central Federal Lands Highway Division
12300 W. Dakota Ave. Lakewood, Colorado 80228

Item Quantity Pay Note Sheet

Date:

Project Number: Project Name:

Account:

Pay Note Information:

Pay Item #: Item Description: Pay Unit:

Item Line #: Item Type:

Pay Note #: Pay Period:

Pay Note Entry:

Work Start Date: Work End Date:

Location/Description:

10/29/2009 = 24.0 hours*

*See supporting documentation

Remarks/Calculations:

Per SCR 635.26, payment will be full compensation for the work prescribed.

Sum of hours from Location/Description = 24.0 hours

Pay 24.0 hours

Support Documentation/References:

Daily Record of Flagger Hours, Flagger Certification

Measured By:

TOTAL QUANTITY: 24 (HOURS)

Interim Measurement Final Measurement

By signature below, I hereby certify that the measurements and calculations shown above are correct to the best of my knowledge and that the quantity being measured is subject to direct payment for the identified item under contract.

Contractor Representative (Print):

Date:

Contractor Representative (Signature):

Approved by FHWA Representative (Print):

Date:

Approved by FHWA Representative (Signature):

Checked by FHWA Representative (Signature):

Date:

U.S. DEPARTMENT OF TRANSPORTATION
 Federal Highways Administration
 Central Federal Lands Highway Division
 Lakewood, CO 80228

DAILY RECORD OF MISCELLANEOUS ITEMS

Project Number: ND PRA THRO 10(3)

Date: 10-29-2009

Project Name: North Unit Scenic Drive

Bid Item Number/Description: 63506-0500, FLAGGERS

LOCATION	DESCRIPTION OF WORK	UNIT	QUANTITY
150+00 TO 10+00	PAT SWOPE 10:30 AM TO 2:30 PM ✓	HOUR	4.0
BEHIND BLADE	TOM KILISHEK 10:30 AM TO 11:30 AM ✓	HOUR	1.0
TRAFFIC CNTRL	TOM KILISHEK 11:30 AM TO 2:30 PM ✓	HOUR	3.0
2000+00 Y	PAT SWOPE 2:30 PM TO 10:30 PM ✓	HOUR	8.0
2000+00 Y	TOM KILISHEK 2:30 PM TO 10:30 PM ✓	HOUR	8.0
TOTAL →		HOUR	24.0 ✓

This form is not a standard form or a paynote. It is an example of a form that the contractor chose to use for line items with multiple daily activities that are difficult to track. It is acceptable to attach other forms with paynotes as long as the date, location, description and quantity of work is clearly noted.

T. Oregon Department of Transportation

TRAFFIC CONTROL FLAGGER
Oregon Work Zone Traffic Control
Certification of Completion



NAME Ochoa Lizeth A.
I.D. NUMBER 51627
EXPIRATION DATE 4/9/2013

Card Holder Must Provide Government Photo I.D.

The person named on this card has met the Industry Standard Requirements of Traffic Control/Work Zone Safety by completing this Oregon Department of Transportation approved course offered through

CHEMEKETA COMMUNITY COLLEGE

Instructor's Name Paul West

Instructor's ID # 390

Section 5: ACRE Items

20101 Clearing and Grubbing	Page 44
62406 Placing Conserved Topsoil	Page 50
62510 Seeding, Hydraulic Method	Page 56

GENERAL NOTE:

The items shown here are examples only - all measurement, documentation, and payment will conform to the project contract requirements regardless of what is shown here. Included here are examples of some of the many documentation types that may be required. Often documentation such as certifications and qualifications may be submitted and accepted once and then referenced accordingly instead of attaching additional copies for each pay note or payment period. Many documentation items are required prior to production, delivery, or placement; required documentation should be provided at the appropriate time and not necessarily at time of payment.

NOTE ON ACRE ITEMS:

Items paid by the ACRE are generally items that include large areas of work (i.e. Seeding, Clearing, Topsoil, Rolled Erosion Control Product, etc.). ACRE quantities shown in the Plans are estimates; only actually ordered and performed quantities are paid. Please refer to the FP, the Special Contract Requirements, and plans of your project for detailed instructions prior to submitting any pay notes. Make longitudinal and traverse measurement by the foot or meter and then use appropriate conversion factors to convert to an ACRE or HECTARE, respectively. It is not okay to determine longitudinal lengths based off of station ranges; the length must be physically measured or surveyed. Generally, when submitting for payment on items paid by the ACRE, it is required to show on the paynote when the work was performed, where the work was performed (station ranges and offsets), measurement sketches, measurement calculations, survey reports if performed, and necessary conversion calculations.



U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
Central Federal Lands Highway Division
12300 W. Dakota Ave. Lakewood, Colorado 80228

Item Quantity Pay Note Sheet

Date:

Project Number: Project Name:

Account:

Pay Note Information:

Pay Item #: Item Description: Pay Unit:

Item Line #: Item Type:

Pay Note #: Pay Period:

Pay Note Entry:

Work Start Date: Work End Date:

Location/Description:

From 12/29/2005 to 1/03/2006, workers cleared and grubbed both sides of the roadway from Station 13+320 to Station 14+500.

Remarks/Calculations:

Per attached clearing report, Station 13+320 to Station 14+500 = 28,628 square meters = 2.863 ha
Pay 2.863 ha

Support Documentation/References:

(1) Clearing Report for plan quantities

Measured By:

TOTAL QUANTITY:

Interim Measurement Final Measurement

By signature below, I hereby certify that the measurements and calculations shown above are correct to the best of my knowledge and that the quantity being measured is subject to direct payment for the identified item under contract.

Contractor Representative (Print):

Date:

Contractor Representative (Signature):

Approved by FHWA Representative (Print):

Date:

Approved by FHWA Representative (Signature):

Checked by FHWA Representative (Signature):

Date:

clearing and grubbing support

01/03/2006

SUNRIVER TO MT. BACHELOR
 PROJ OR PFH 244-1(1)
 MAINLINE
 CLEARING REPORT

Page# 42

STATION	CLEARING LT	DISTANCE RT	EXCEPTION WIDTH	AREA m2	SUBTOTAL m2	AREAS ES
13+240.00 R 1	9.273	9.967	0.000	391		
13+260.00 R 1	12.882	13.631	0.000	458		
13+280.00 R 1	11.567	9.745	0.000	479		
13+300.00 R 1	11.843	10.420	0.000	436		
13+320.00 R 1	12.073	10.653	0.000	450		
13+340.00 R 1	12.230	10.777	0.000	458		
13+360.00 R 1	12.291	10.815	0.000	462		
13+380.00 R 1	11.620	11.279	0.000	461		
13+400.00 R 1	11.489	11.514	0.000	460		
13+420.00 R 1	11.209	11.546	0.000	458		
13+440.00 R 1	10.907	11.651	0.000	454		
13+460.00 R 1	11.100	11.968	0.000	457		
13+480.00 R 1	11.532	12.081	0.000	467		
13+500.00 R 1	11.942	11.787	0.000	474		
13+520.00 R 1	12.076	12.753	0.000	486		
13+540.00 R 1	11.915	12.874	0.000	497		
					10912	1.0
				(ACCUM m2 294813.0000)		

START

13+320.00 R 1

458
462
461
460
458
454
457
467
474
486
497

RECEIVED
 JUL 20 2006
 BY PROJECT ENGINEER

513-1 m²

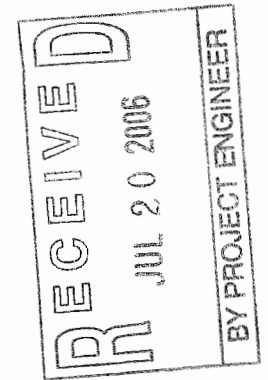
clearing and grubbing support

01/03/2006

SUNRIVER TO MT. BACHELOR
 PROJ OR PFH 244-1(1)
 MAINLINE
 CLEARING REPORT

Page# 43

STATION	CLEARING LT	DISTANCE RT	EXCEPTION WIDTH	AREA m2	SUBTOTAL m2	AREAS ES
13+560.00 R 1	12.331	13.511	0.000	507		
13+580.00 R 1	12.878	13.917	0.000	527		
13+600.00 R 1	12.617	13.570	0.000	530		
13+620.00 R 1	12.985	13.412	0.000	526		
13+640.00 R 1	13.397	13.348	0.000	532		
13+660.00 R 1	13.903	12.981	0.000	537		
13+680.00 R 1	13.588	12.165	0.000	527		
13+700.00 R 1	13.215	10.499	0.000	495		
13+720.00 R 1	13.028	10.509	0.000	473		
13+740.00 R 1	12.922	10.308	0.000	468		
13+760.00 R 1	12.251	10.887	0.000	464		
13+780.00 R 1	11.498	10.109	0.000	448		
13+800.00 R 1	10.369	14.855	0.000	469		
13+820.00 R 1	7.089	8.822	0.000	412		
13+840.00 R 1	9.323	8.477	0.000	338		
13+860.00 R 1	12.549	8.137	0.000	385		



7638 m²

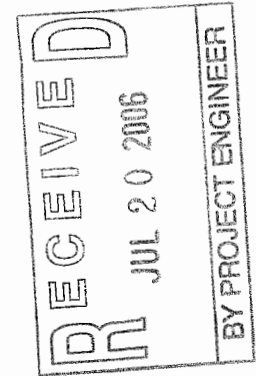
clearing and grubbing support

01/03/2006

SUNRIVER TO MT. BACHELOR
 PROJ OR PFH 244-1(1)
 MAINLINE
 CLEARING REPORT

Page# 44

STATION	CLEARING LT	DISTANCE RT	EXCEPTION WIDTH	AREA m2	SUBTOTAL m2	AREAS ES
13+880.00 R 1	13.011	7.446	0.000	412		
13+900.00 R 1	12.833	6.951	0.000	403		
13+920.00 R 1	12.725	7.440	0.000	400		
13+940.00 R 1	12.846	6.744	0.000	398		
13+960.00 R 1	13.132	10.335	0.000	431		
13+980.00 R 1	12.369	10.020	0.000	459		
14+000.00 R 1	10.387	9.669	0.000	425		
14+020.00 R 1	9.719	9.881	0.000	397	11549	1.1549 (ACCUM m2 306362.0000)
14+040.00 R 1	9.079	10.266	0.000	390		
14+060.00 R 1	9.148	10.510	0.000	391		
14+080.00 R 1	6.661	11.971	0.000	383		
14+100.00 R 1	6.313	13.732	0.000	387		
14+120.00 R 1	6.513	15.251	0.000	419		
14+140.00 R 1	9.359	16.072	0.000	472		
14+160.00 R 1	11.017	15.999	0.000	525		
14+180.00 R 1	10.501	16.418	0.000	540		



5/12/06

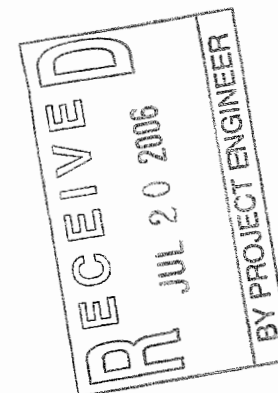
clearing and grubbing support

01/03/2006

SUNRIVER TO MT. BACHELOR
 PROJ OR PFH 244-1(1)
 MAINLINE
 CLEARING REPORT

Page# 45

STATION	CLEARING LT	DISTANCE RT	EXCEPTION WIDTH	AREA m2	SUBTOTAL m2	AREAS ES
14+200.00 R 1	13.855	24.066	0.000	649		
14+220.00 R 1	11.103	15.178	0.000	643		
14+240.00 R 1	12.138	16.921	0.000	554		
14+260.00 R 1	10.462	16.707	0.000	563		
14+280.00 R 1	10.456	15.385	0.000	531		
14+300.00 R 1	10.650	16.024	0.000	526		
14+320.00 R 1	11.113	16.776	0.000	546		
14+340.00 R 1	11.917	17.811	0.000	577		
14+360.00 R 1	12.710	16.770	0.000	593		
14+380.00 R 1	12.185	18.083	0.000	598		
14+400.00 R 1	11.802	17.318	0.000	594		
14+420.00 R 1	12.943	19.385	0.000	615		
14+440.00 R 1	20.437	13.276	0.000	661		
14+460.00 R 1	10.209	12.343	0.000	563		
14+480.00 R 1	10.430	9.610	0.000	426		
14+500.00 R 1	9.520	8.872	0.000	385		
					12928	1.2928 (ACCUM m2 319290.0000)



[Handwritten signature]

9024 m²

clearing and grubbing support

OR PFH 244-1(1) Clearing and Grubbing Summary (December 2005 to January 2006)

458 +
462 +
461 +
460 +
458 +
454 +
457 +
467 +
474 +
486 +
497 +
507 +
527 +
530 +
526 +
532 +
537 +
527 +
495 +
473 +
468 +
464 +
448 +
469 +
412 +
338 +
385 +
412 +
403 +
400 +
398 +
431 +
459 +
425 +
397 +
390 +
391 +
383 +
387 +
419 +
472 +
525 +
540 +
649 +
643 +
554 +
563 +
531 +
526 +
546 +
577 +
593 +
598 +
594 +
615 +
661 +
563 +
426 +
385 +

TOTAL = 28628 meters squared



U.S. DEPARTMENT OF TRANSPORTATION
 FEDERAL HIGHWAY ADMINISTRATION
 Central Federal Lands Highway Division
 12300 W. Dakota Ave. Lakewood, Colorado 80228

Item Quantity Pay Note Sheet

Date: 8/22/2010

Project Number: SD PFH 17-1(6)

Project Name: Hill City to Lead

Account: Schedule A

Pay Note Information:

Pay Item #: 62406-0200

Item Description: Placing Conserved Topsoil, 2" depth

Pay Unit: ACRE

Item Line #: N/A (for EEBACS only)

Item Type: N/A (for EEBACS only)

Pay Note #: 211

Pay Period: 6

Pay Note Entry:

Work Start Date: 8/17/2010

Work End Date: 8/21/2010

Location/Description:

- (a) 8/17/2010: Placed Conserved Topsoil at Deerfield STA 31+00 to 35+15 RT
 (b) 8/18/2010: Placed Conserved Topsoil at Deerfield STA 35+15 to 41+20 RT
 (c) 8/19/2010: Placed Conserved Topsoil at Deerfield and Newton Trail Slope STA 38+50 to 41+50 LT
 (d) 8/20/2010: Placed Conserved Topsoil at the slope of Newton Fork Ranch
 (e) 8/21/2010: Placed Conserved Topsoil at Deerfield STA 49+00 to 41+50 LT
 Note: Topsoil placed by Tim the Operator with a Hitachi EX230 Excavator.

Remarks/Calculations:

Per FP-03 624.07, payment will be full compensation for the work prescribed in this section.

From Location/Description:

(a) 4,162.5 SF* + (b) 14,970.0 SF* + (c) 4,861 SF* + (d) 3,317 SF* + (e) 22,086 SF* = 49,396.5 SF

$(49,396.5 \text{ SF}) / (43,560 \text{ SF/ACRE}) = 1.134 \text{ ACRE}$

*See attached Placing Conserved Topsoil Sketches and Calculations

Support Documentation/References:

(1) Placing Conserved Topsoil Sketches and Calculations

Measured By: Joe the Inspector & Bob the Contractor

TOTAL QUANTITY:

1.134 (ACRE)

Interim Measurement Final Measurement

By signature below, I hereby certify that the measurements and calculations shown above are correct to the best of my knowledge and that the quantity being measured is subject to direct payment for the identified item under contract.

Contractor Representative (Print): Bob the Contractor

Date: 8/22/10

Contractor Representative (Signature):

Approved by FHWA Representative (Print): Joe the Inspector

Date: 8/22/10

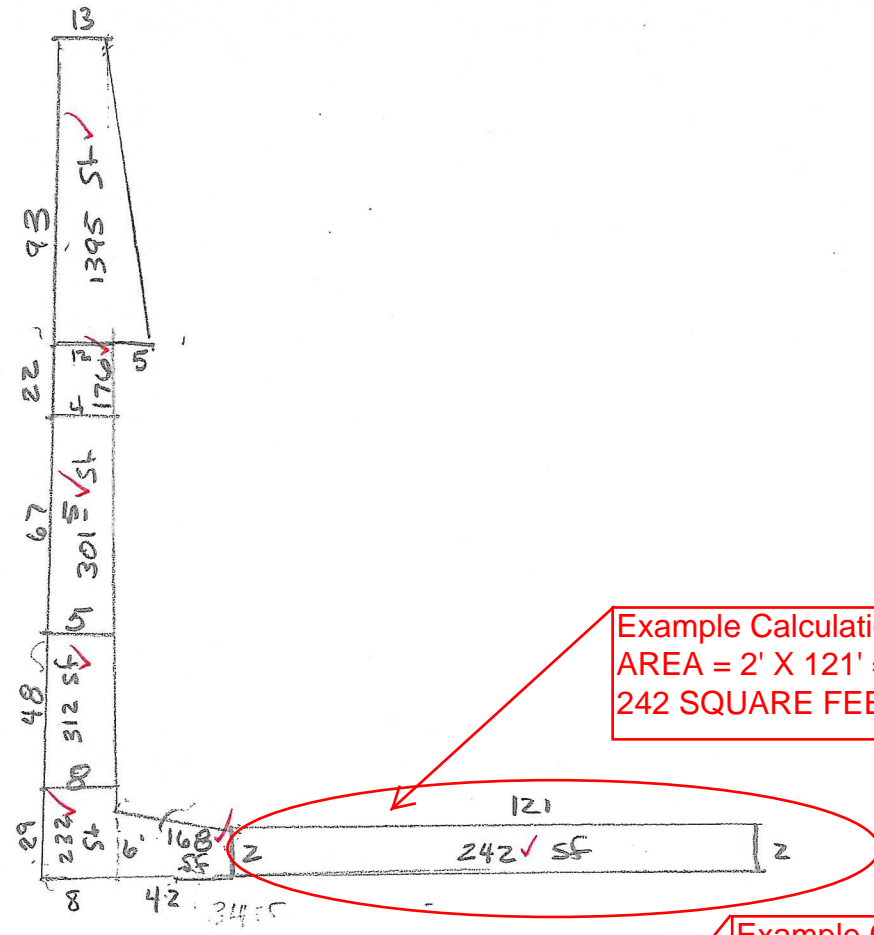
Approved by FHWA Representative (Signature):

Checked by FHWA Representative (Signature): Jane the Project Engineer

Date: 8/25/10

placing conserved topsoil support documentation

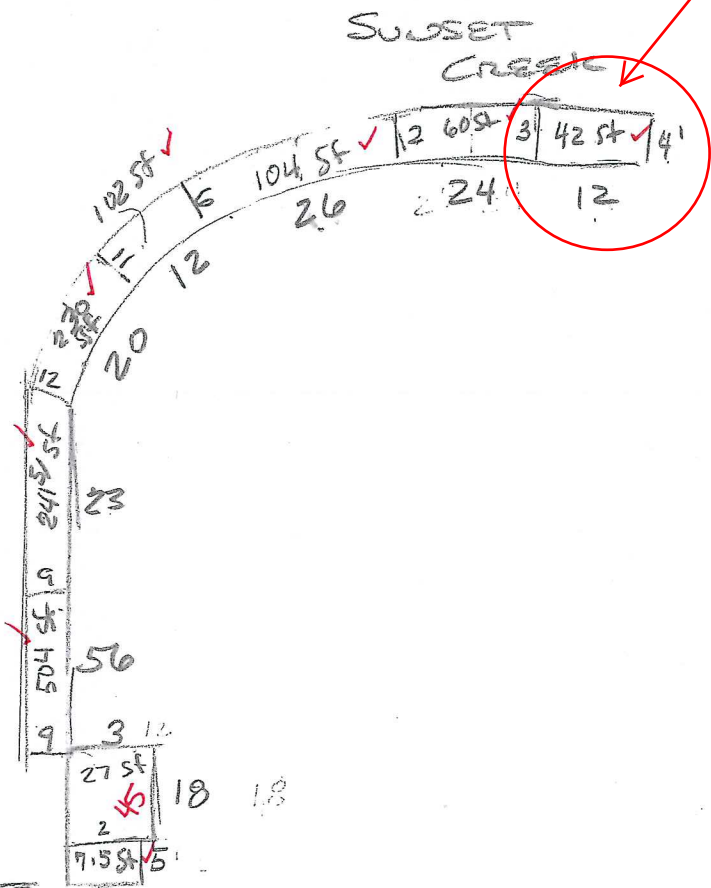
DEERFIELD RT 31+00-35+15 Schedule A



Example Calculation 1:
 $AREA = 2' \times 121' = 242 \text{ SQUARE FEET}$

Example Calculation 2:
 $AREA = ((3'+4')/2) \times 12' = 42 \text{ SQUARE FEET}$

DEERFIELD RT



DM

~~TOTAL 4134 SF~~

~~459 SF~~

4102.5 SF

462.5 SF

SD PER 17-1(G)
 HILL CITY TO LEAD
 SEEDING
 MULCHING
 TOPSOIL

Ex. Calculation 3:
 AREA = 29'x15' =
 435 SQUARE FEET

Ex. Calculation 4:
 Area (triangle) =
 ((30'-29') X 15')/2 =
 7.5 SQUARE FEET

DEERFIELD RT
 35+15 - 41+20

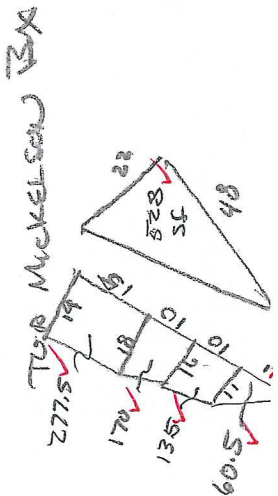
TOTAL (1) 8626 SF
 958 SY

10	32	160 SF ✓	
10	46	320 SF ✓	70 SF ✓
10	44	440 SF ✓	10 SF ✓
10	46	440 SF ✓	10 SF ✓
9	34	306 SF ✓	54 SF ✓
12			MICKELSON BOX
10	27	120 SF ✓	75 SF ✓
10	28	270 ✓	5 ✓
10	30	280 ✓	10 ✓
10	29	290 SF ✓	5 ✓
15	30	435 SF ✓	7.5 ✓
15	32	480 SF ✓	15 SF ✓
15	34	480 SF ✓	15 SF ✓
15		330 SF ✓	90 SF ✓
5	60	60 SF ✓	
21	12	33 SF ✓	25 SF ✓
10	34	70 SF ✓	
10	33	330 SF ✓	15 SF ✓
12	32	384 SF ✓	26 SF ✓
18	33	576 SF ✓	19 SF ✓
14	32	448 SF ✓	17 SF ✓
16	32	512 SF ✓	
16	31	496 SF ✓	8 SF ✓
16	32	512 SF ✓	8 SF ✓
16	29	464 SF ✓	224 SF ✓
13	28	364 SF ✓	17 SF ✓
16	27	432 SF ✓	8 SF ✓
16	26	416 SF ✓	8 SF ✓
17	26	442 SF ✓	
16	27	416 SF ✓	8 SF ✓
16	27	432 SF ✓	
16	27	422 SF ✓	
16	29	432 SF ✓	16 SF ✓
16	31	464 SF ✓	16 SF ✓
16	31	496 SF ✓	
10	31	310 SF ✓	
4	24	96 SF ✓	154 SF ✓
6	17	102 SF ✓	21 SF ✓

Newton Fork Creek

Barb
 wire
 Fence

ON
 ANOTHER
 SHEET



SEE
 OTHER
 SHEET

TOTAL 11853 SF
~~1650 SY~~

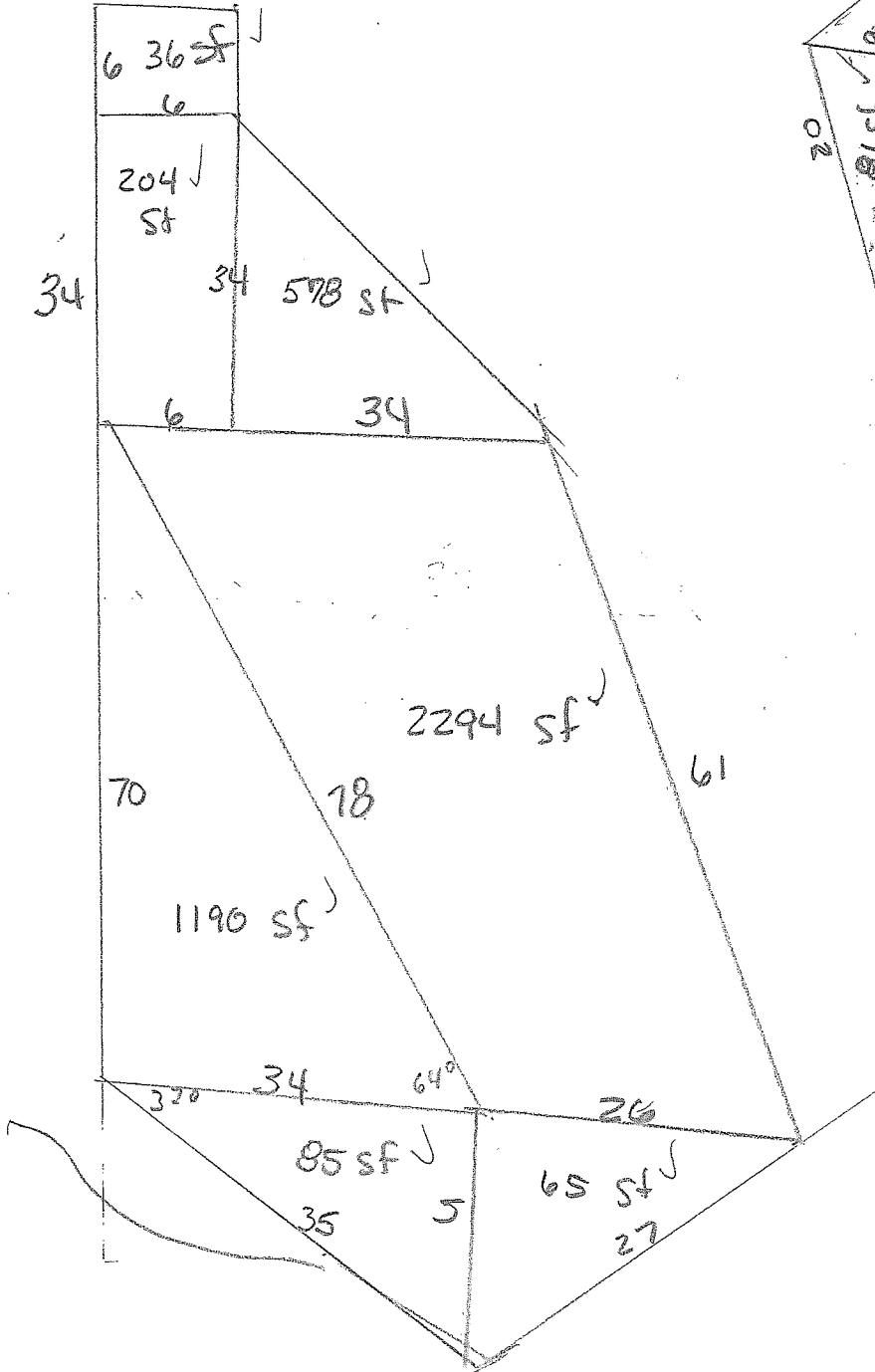
DM
 14970 SF
 2011 SF

placing conserved topsoil support documentation

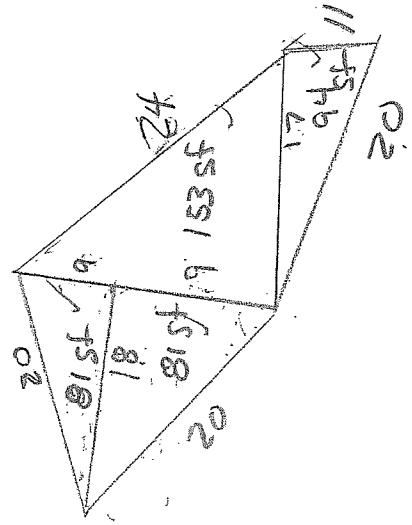
DEERFIELDS LT + NEWTON FORK

BOTTOM OF SLOPE

38+50 - 41+50



Newton Fork Creek



TOTAL 4801 sf
540 sf

SD PFH 17-1(6)
 HILL CRY TO LEAD
 SEEDING
 MOWING
 TOP SOIL
 Schedule A

placing conserved topsoil support documentation

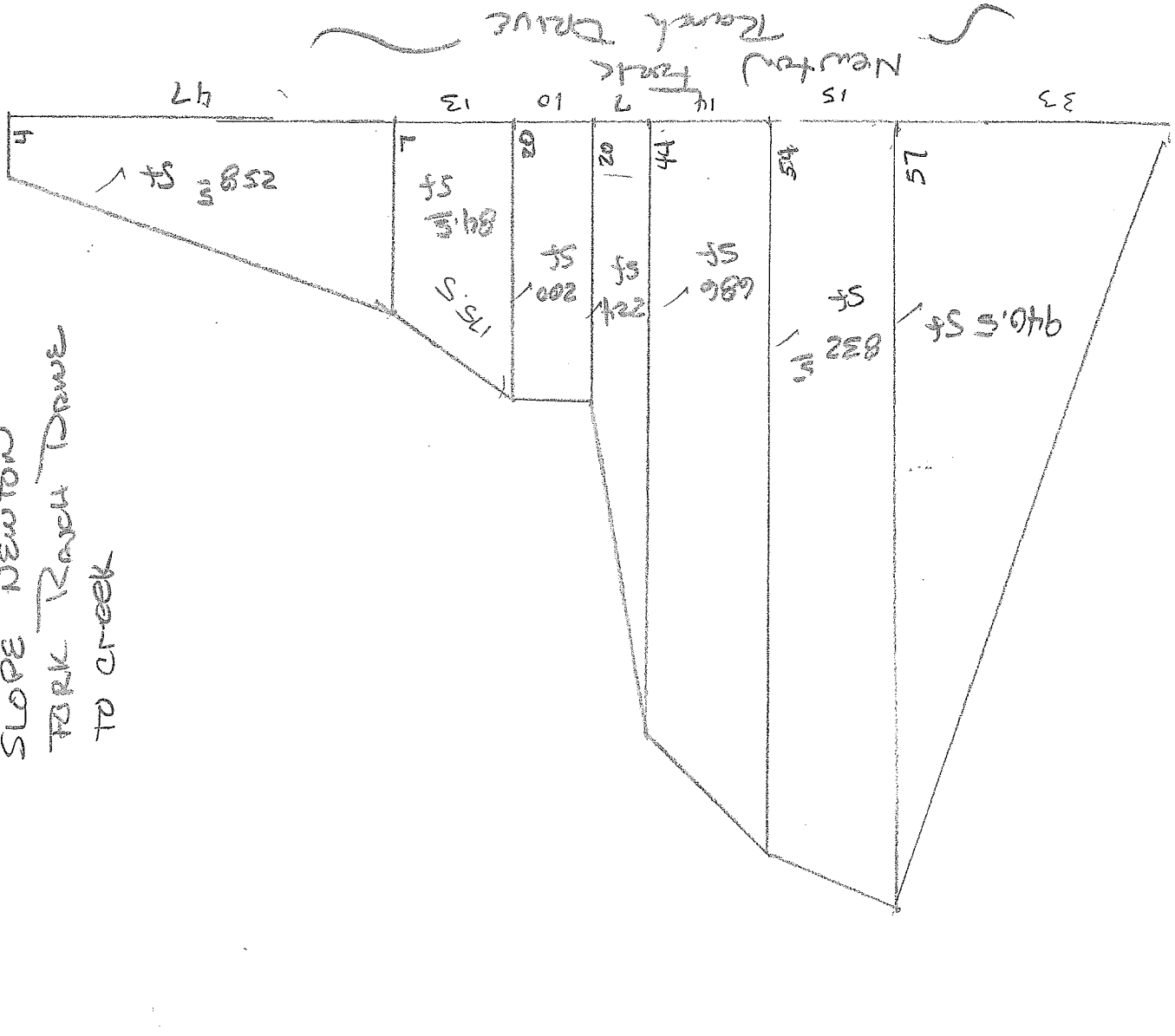
DM

~~Total 3226 sf~~
~~358 sf~~

3317 sf
368.5 sy

SLOPE NEWTON
FORK RANCH DRIVE
TO CREEK

2D WITH VINES
HILL CITY TO LEAD
SEEDING
MULCHING
TOPSOIL
Schedule A



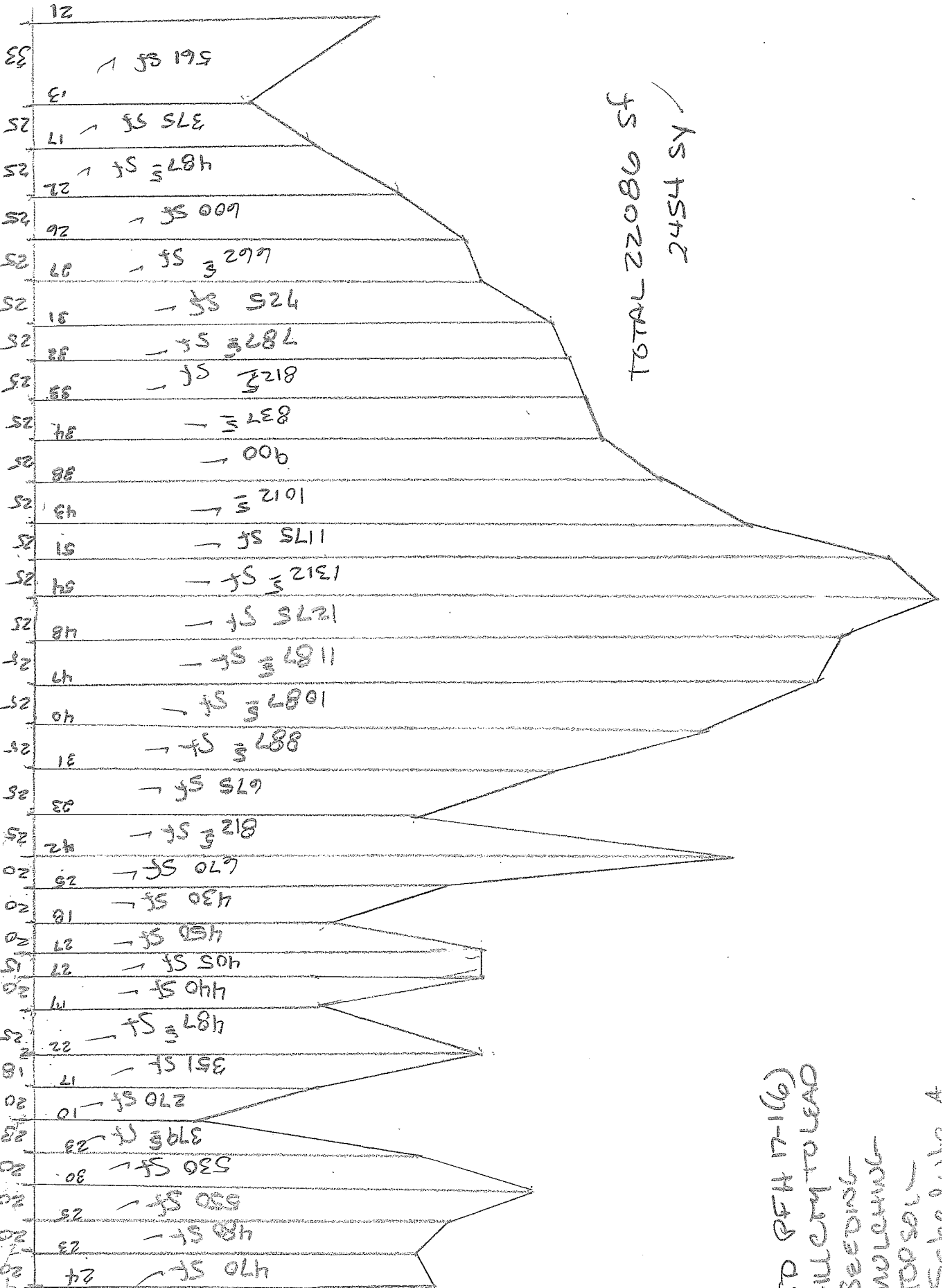
DEER FIELD

placing conserved topsoil support documentation

DEERFIELD CT

49+00 - 241+50

DEERFIELD



SD REF 17-1(6)
 HILTI TO LEAD
 SEEDING
 MOWING
 TOPSOIL
 C-10.1.1. A

49+00



U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
Central Federal Lands Highway Division
12300 W. Dakota Ave. Lakewood, Colorado 80228

Item Quantity Pay Note Sheet

Date:

Project Number: Project Name:

Account:

Pay Note Information:

Pay Item #: Item Description: Pay Unit:

Item Line #: Item Type:

Pay Note #: Pay Period:

Pay Note Entry:

Work Start Date: Work End Date:

Location/Description:

- (A) 8/1/2010: Hydraulic Seeding at Burnt Fork, top of bench*
- (B) 8/2/2010: Hydraulic Seeding at Burnt Fork, slope*
- (C) 8/3/2010: Hydraulic Seeding at Burnt Fork, ditch*

*See attached sketch

Remarks/Calculations:

From Location/Description:
(A) 7,626 SF* + (B) 12,780.5 SF* + (C) 8,000 SF* = 28,406.5 SF

$(28,406.5 \text{ SF}) / (43,560 \text{ SF/ACRE}) = 0.652 \text{ ACRE}$

*See attached Hydraulic Seeding Sketches and Calculations

Support Documentation/References:

(1) Hydraulic Seeding Sketches and Calculations (2) Hydraulic Seeding Certification

Measured By:

TOTAL QUANTITY: 0.652 (ACRE)

Interim Measurement Final Measurement

By signature below, I hereby certify that the measurements and calculations shown above are correct to the best of my knowledge and that the quantity being measured is subject to direct payment for the identified item under contract.

Contractor Representative (Print):

Date:

Contractor Representative (Signature):

Approved by FHWA Representative (Print):

Date:

Approved by FHWA Representative (Signature):

Checked by FHWA Representative (Signature):

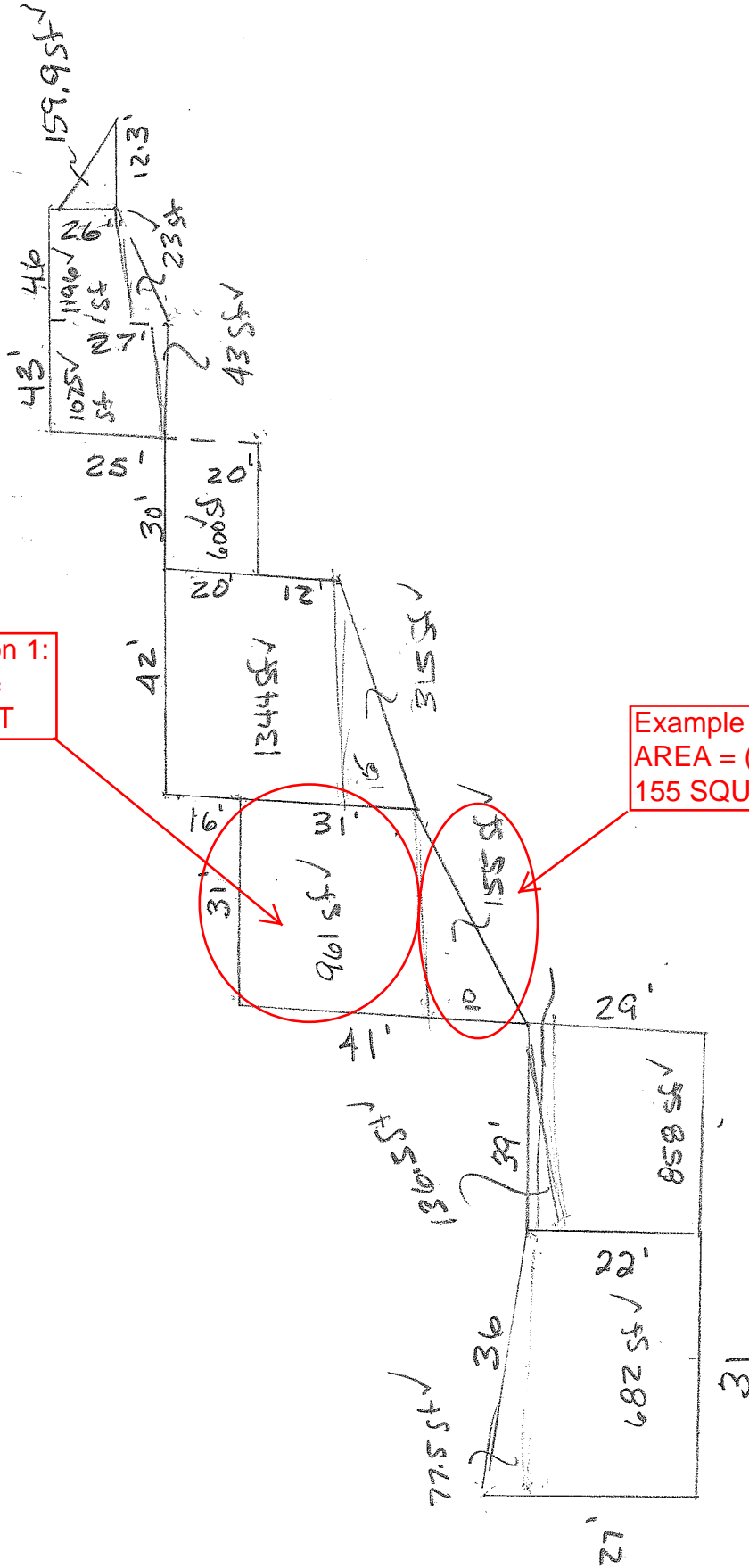
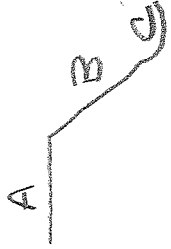
Date:

seeding support documentation

SD PFH 17-1(6)
HILL CITY TO LEAD
SEEDING
MULCHING
TOPSOIL
OPTION X

BURNT FOLK RT

UPSTATION
→



Example Calculation 1:
AREA = 31' X 31' =
961 SQUARE FEET

Example Calculation 2:
AREA = (31' X 10') / 2 =
155 SQUARE FEET

A

TOTAL 7626 sf
847 sf ✓

seeding support documentation

DM

TOTAL 12796 SF

~~1122 SF~~

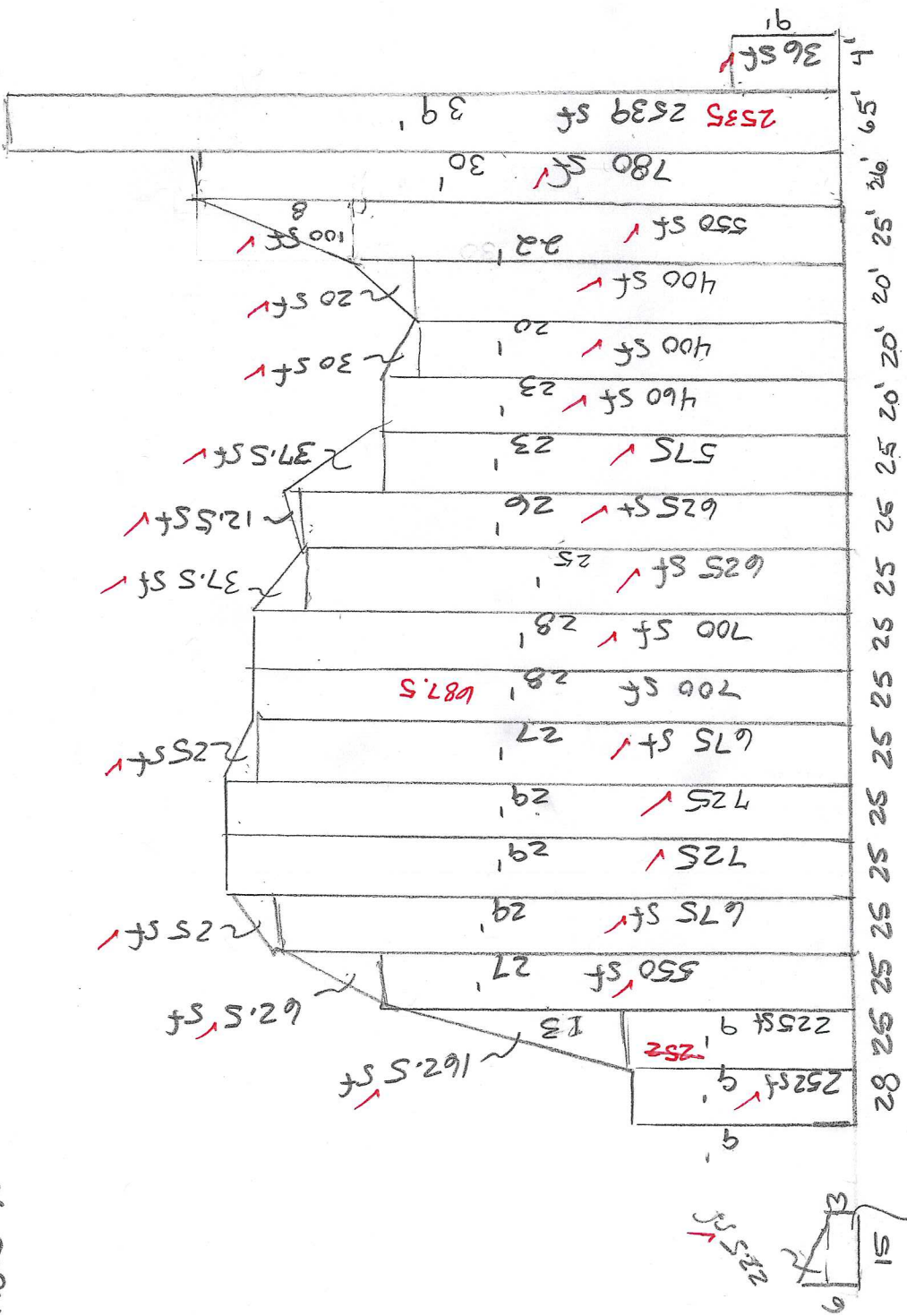
12780.5 12800 SF
1420 1423 SF

B

BURNOT FORK
SLOPE RT

SD PHH 17-11603
HULL CITY TO LEAD
SEEDING
MULCHING
TOPSOIL

OPTION X



415 SF

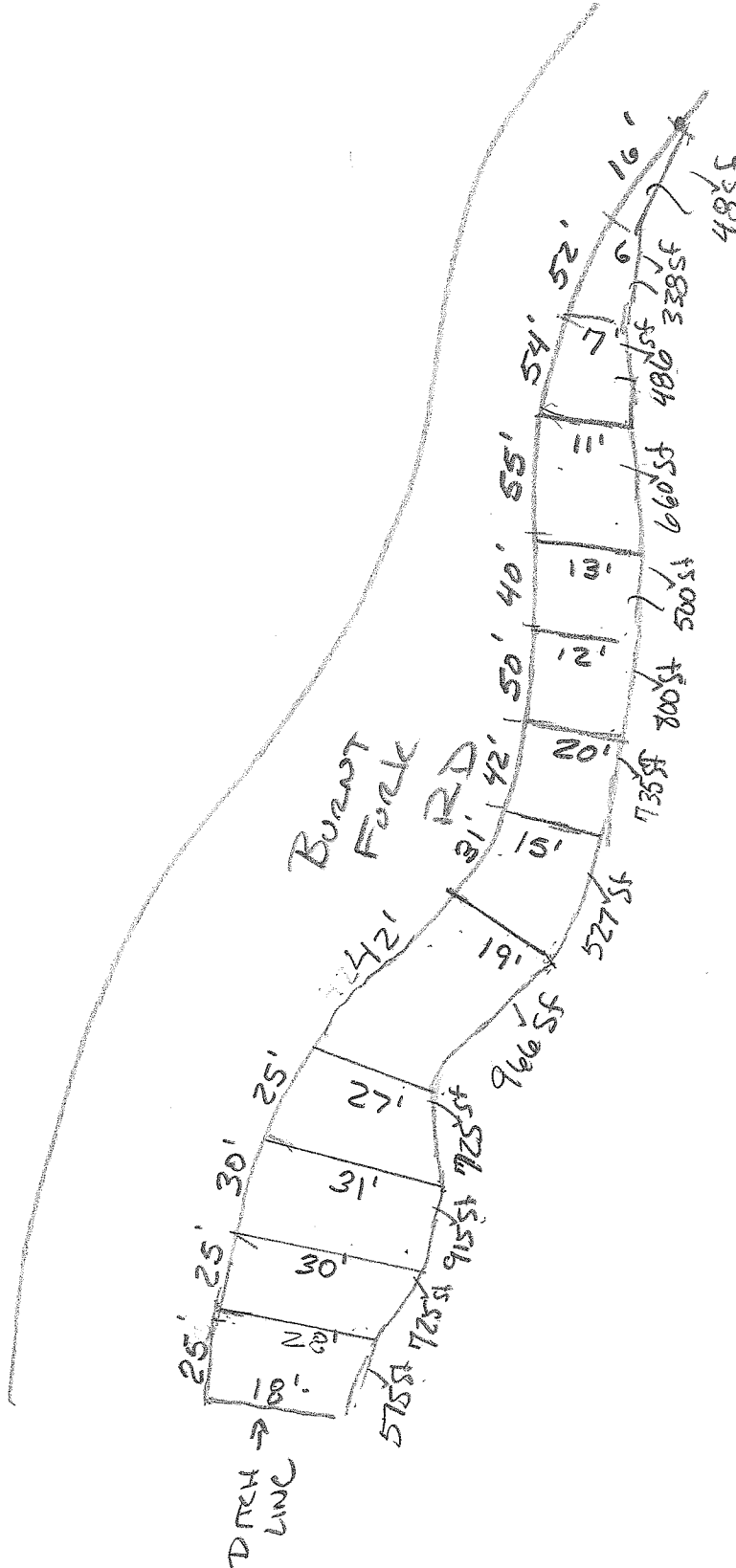
seeding support documentation

BURNT FUNK RT



SP FROM 17-11-02
 HILL CITY TO LEAD
 SEEDING
 MULCHING
 TOPSOIL

OPTION X



TOTAL 8000 SF
 889 SF ✓
 DITCH



Project SD PFH 17-1
Contract # DTFH68-10-C00010

November 20, 2008

Re: Certificate of Compliance, Terra-Blend™ with UltraGro™

To Whom It May Concern:

This letter is to certify that Profile Products, LLC manufacturers the product marketed as Terra-Blend™ with UltraGro™. Each bale of Terra-Blend™ with UltraGro™ has been subjected to Profile Products Quality Assurance and Quality Control program and is manufactured to meet or exceed all physical property, endurance, performance and packaging requirements listed in the data specification. A copy of the data specification along with other product information for Terra-Blend™ with UltraGro™ can be located on the Terra-Mulch® website at www.terra-mulch.com. Should you have any questions regarding this product please contact Profile Products.

Cordially,

Michael D. Robeson, PE, CPESC
Technical Services Manager
Profile Products

RED WILK CONSTRUCTION INC.

PO Box 381 • Huron, SD 57350

Transmitted As Indicated: Approved
 Referred to A / E Approval Revise & Resubmit
These / This item(s) have been checked for compliance with the Contract Documents.

Checked by: MB JF Date: 5/13/10

Please Return Drawings to Address Above

OMF 6/1/10

Section 32 92 16.16 – Hydraulic Seeding: Hydraulic Mulch – Blend with Biostimulant

GENERAL

1.01 SUMMARY

- A. This section specifies a hydraulically-applied Hydraulic Mulch (HM) – Blend with biostimulant composed of long strand, thermally refined (within a pressure vessel) wood fibers that have been pressure treated to 80 – 85 psi (552 – 586 kPa) with steam and heat treated for 15 minutes at 380 – 440 degrees Fahrenheit (193 – 226 degrees Celsius); cellulose fibers and a biostimulant. The HM creates a porous and absorbent erosion layer that enhances germination and plant growth.
- B. Related Sections: Other Specification Sections, which directly relate to the work of this Section include, but are not limited to the following:
1. *Section 01 57 00 – Temporary Erosion and Sediment Control*
 2. *Section 31 00 00 – Earthwork*
 3. *Section 31 91 00 – Planting Preparation*
 4. *Section 32 92 00 – Turf and Grasses*

1.02 SUBMITTALS

- A. Product Data: Submit manufacturer's product data and installation instructions. Include required substrate preparation, list of materials and application rate.
- B. Certifications: Manufacturer shall submit a letter of certification that the product meets or exceeds all physical property, endurance, performance and packaging requirements.

1.03 DELIVERY, STORAGE AND HANDLING

- A. Deliver materials and products in UV and weather-resistant factory labeled packages. Store and handle in strict compliance with manufacturer's instructions and recommendations. Protect from damage, weather, excessive temperatures and construction operations.

PRODUCTS

2.01 ACCEPTABLE MANUFACTURER

- A. PROFILE Products LLC
750 Lake Cook Road – Suite 440
Buffalo Grove, IL 60089
800-366-1180 (Fax 847-215-0577)
www.profileproducts.com

2.02 MATERIALS

- A. The Hydraulic Mulch – Blend with Biostimulant shall be Terra-Blend™ with UltraGro™ and conform to the following property values.

Property	Test Method	Req. Value (English)	Req. Value (SI)
Physical			
Water Holding Capacity	ASTM D7367	1000% minimum	1000% minimum
Color	Observed	Green	Green
Endurance			
Functional Longevity ¹	Observed	Up to 3 months	Up to 3 months
Performance			
Cover Factor ²	Large Scale Testing ⁴	0.65 maximum	0.65 maximum
% Effectiveness ³	Large Scale Testing ⁴	35% minimum	35% minimum

1. Functional Longevity is the estimated time period, based upon field observations, that a material can be anticipated to provide erosion control and agronomic benefits as influenced by composition, as well as site-specific conditions, including; but not limited to – temperature, moisture, light conditions, soils, biological activity, vegetative establishment and other environmental factors..
3. Cover Factor is calculated as soil loss ratio of treated surface versus an untreated control surface.
4. % Effectiveness = One minus Cover Factor multiplied by 100%.
5. Large scale testing conducted at Utah Water Research Laboratory. For specific testing information please contact a Profile technical service representative at 866-325-6262.

2.03 COMPOSITION

- A. All components of the HM shall be pre-packaged by the Manufacturer to assure both material performance and compliance with the following values. No chemical additives with the exception of fertilizer and liming materials should be added to this product.
 1. Thermally Processed (within a pressure vessel) Wood Fiber (minimum) – $60\% \pm 3\%$
 - a) Heated to a temperature greater than 380 degrees Fahrenheit (193 degrees Celsius) for 15 minutes at a pressure greater than 80 psi (552 kPa)
 - Cellulose Fibers (maximum) – $27\% \pm 3\%$
 - UltraGro™ Biostimulant – $1\% \pm 0.5\%$
 - Moisture Content – $12\% \pm 3\%$

2.04 PACKAGING

- A. Bags: Net Weight – 50 lb, UV and weather-resistant plastic film
Pallets: Weather-proof, stretch-wrapped with UV resistant pallet cover
Pallet Quantity: 40 bags/pallet or 1 ton/pallet

EXECUTION

3.01 SUBSTRATE AND SEEDBED PREPARATION

- A. Examine substrates and conditions where materials will be applied. Apply product to geotechnically stable slopes that have been designed and constructed to divert runoff away from the face of the slope. Do not proceed with installation until satisfactory conditions are established.
- B. Depending upon project sequencing and intended application, prepare seedbed in compliance with other specifications under Section 1.01 B

3.02 INSTALLATION

- A. Strictly comply with equipment manufacturer's installation instructions and recommendations. Use approved hydro-spraying machines with fan-type nozzle (50-degree tip). To achieve optimum soil surface coverage, apply HM from opposing directions to soil surface. Rough surfaces (rocky terrain, cat tracks and ripped soils) may require higher application rates to achieve 75% cover. Slope interruption devices or water diversion techniques are recommended when slope lengths exceed 23 feet (7 m). Maximum slope length is for product applications on a 4H:1V slope. For application on steeper slopes, slope interruption lengths may need to be decreased based on actual site conditions. Not recommended for channels or areas with concentrated water flow. No chemical additives with the exception of fertilizer and liming materials should be added to this product.
- B. For Erosion Control and Revegetation: To ensure proper application rates, measure and stake area.
 1. *Apply fertilizer with specified prescriptive agronomic formulations, seed and HM at a rate of 50 lb per 100 gallons (23 kg / 380 liters) of water over properly prepared surfaces. Confirm loading rates with equipment manufacturer.*

Do not apply on saturated soils or substrates. Do not apply if precipitation is anticipated within 24-48 hours.

- C. Mixing: A mechanically agitated hydraulic-application machine is recommended:
 1. *Fill 1/3 of mechanically agitated hydroseeder with water. Turn pump on for 15 seconds and purge and pre-wet lines. Turn pump off.*
 2. *Turn agitator on and load low density materials first (i.e. seed).*

3. Continue slowly tilling tank with water while loading fiber matrix into tank.
4. Consult application and loading charts to determine number of bags to be added for desired area and application rate. Mix at a rate of 50 lb of HM per 100 gallons (23 kg/380 liters). Contact Equipment manufacturer to confirm optimum mixing rates.
5. All HM should be completely loaded before water level reaches 75% of the top of tank.
6. Top off with water and mix until all fiber is fully broken apart and hydrated (minimum of 10 minutes).
7. Add fertilizer
8. Shut off recirculation valve to minimize potential for air entrainment within the slurry.
9. Slow down agitator and start applying with a 50-degree fan tip nozzle.
10. Spray in opposing directions for maximum soil coverage.

D. Application Rates: These application rates are for standard conditions. Designers may wish to reduce rates to encourage faster vegetation establishment or may need to increase application rates on rough surfaces.

Slope Gradient / Condition	English	SI
≤ 4H to 1V	2000 lb/ac	2250 kg/ha
> 4H to 1V and ≤ 3H to 1V	2500 lb/ac	2800 kg/ha

3.03 CLEANING AND PROTECTION

- A. After application, thoroughly flush the tank, pumps and hoses to remove all material. Wash all material from the exterior of the machine and remove any slurry spills.
- B. Clean spills promptly. Advise owner of methods for protection of treated areas. Do not allow treated areas to be trafficked or subjected to grazing.

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Section 6: LNFT/METER/MILE ITEMS

15705 Soil Erosion Control, Silt Fence	Page 64
41411 Crack Cleaning and Sealing	Page 67
55101 Driven Piles	Page 71
60201 Culvert	Page 90
63401 Pavement Markings	Page 93

GENERAL NOTE:

The items shown here are examples only - all measurement, documentation, and payment will conform to the project contract requirements regardless of what is shown here. Included here are examples of some of the many documentation types that may be required. Often documentation such as certifications and qualifications may be submitted and accepted once and then referenced accordingly instead of attaching additional copies for each pay note or payment period. Many documentation items are required prior to production, delivery, or placement; required documentation should be provided at the appropriate time and not necessarily at time of payment.

NOTE ON LNFT/METER/MILE ITEMS:

Items paid by length are generally items that are appropriate to measure from end-to-end. Length quantities shown in the Plans are estimates; only actually ordered and performed quantities are paid. Please refer to the FP, the Special Contract Requirements, and plans of your project for detailed instructions prior to submitting any pay notes. Generally, items paid by length are measured with approved devices along the length of the item from end-to-end; parallel to the base or foundation; along the top; along the front face; or along the invert. Do not measure overlaps. It is necessary to measure lengths as specified within the contract for that specific item. Items measured by length often have differing measurement methods based on the item. When submitting for payment on items paid by length, it is required to show on the paynote when the work was performed, where the work was performed (station ranges, offsets, depths, sketches), measurement calculations, who measured the work, survey reports if performed, and necessary conversion calculations (i.e. feet to mile).



U.S. DEPARTMENT OF TRANSPORTATION
 FEDERAL HIGHWAY ADMINISTRATION
 Central Federal Lands Highway Division
 12300 W. Dakota Ave. Lakewood, Colorado 80228

Item Quantity Pay Note Sheet

 Date:

 Project Number:

 Project Name:

 Account:

Pay Note Information:

 Pay Item #:

 Item Description:

 Pay Unit:

 Item Line #:

 Item Type:

 Pay Note #:

 Pay Period:

Pay Note Entry:

 Work Start Date:

 Work End Date:

Location/Description:

- 1) 7/02/11: 123+46 to 124+60 RT, 116' measured
- 2) 7/02/11: 124+77 to 125+75 RT, 100' measured
- 3) 7/02/11: 127+00 to 128+97 RT, 195' measured

Remarks/Calculations:

Sum of silt fence from Location/Description = 116' + 100' + 195' = 408'
 Pay 408 LNFT of Silt Fence

Per FP-03, section 157.16 (a), 50% of the unit bid price will be paid upon installation. See attached Silt Fence Payment Summary Sheet for retention information.

NOTE: Do not show retention information on any paynotes.

Support Documentation/References:

Silt Fence Certification, Silt Fence Payment Summary Sheet

 Measured By:
TOTAL QUANTITY:
408 (LNFT)
 Interim Measurement Final Measurement

By signature below, I hereby certify that the measurements and calculations shown above are correct to the best of my knowledge and that the quantity being measured is subject to direct payment for the identified item under contract.

 Contractor Representative (Print):

 Date:

 Contractor Representative (Signature):

 Approved by FHWA Representative (Print):

 Date:

 Approved by FHWA Representative (Signature):

 Checked by FHWA Representative (Signature):

 Date:

silt fence support documentation



U.S. Department
of Transportation
Federal Highway
Administration

AZ PFH 43-1(4), Sunrise Park- Big Lake Road

Option X

Silt Fence Payment Summary Sheet

Paynote #	Paynote Date	Total Quantity (feet)	Per section 157.16 of the FP-03									Percentage of total qnty paid to date
			50 % paid upon installation			25% paid upon 50% completion of project			25% paid upon removal			
			Quantity	Date	PP	Quantity	Date	PP	Quantity	Date	PP	
64	6/29/11	233	116.5	29-Jun	2	58.25	31-Aug	4		TBD		0.75
66	6/30/11	124	62	29-Jun	2	31	31-Aug	4		TBD		0.75
69	7/1/11	156	78	1-Jul	3	39	31-Aug	4		TBD		0.75
71	7/2/11	408	204	2-Jul	3	102	31-Aug	4		TBD		0.75
76	7/3/11	321	160.5	29-Jun	3	80.25	31-Aug	4		TBD		0.75
80	7/6/11	231	115.5	29-Jun	3	57.75	31-Aug	4		TBD		0.75
82	7/7/11	345	172.5	29-Jun	3	86.25	31-Aug	4		TBD		0.75
Totals		1818	909			454.5						0.75

NOTE TO PROJECT ENGINEERS: This is only an example of a tracking method for silt fence quantities. Other formats should be used given project conditions. DO NOT LET CONTRACTORS SHOW RETENT OF QUANTITIES ON PAYNOTES. IT SHOULD BE DEDUCTED AND SHOWN ONLY ON A MONTHLY SUMMARY SHEET OR ITEM SUMMARY SHEET, SUCH AS THIS.



Silt Fence Fabric TerraTex SF-D

w 28" 2x4 12.5ga welded wire

Silt Fence Fabric TerraTex SF-D with 28" 2x4 12.5ga welded wire is a preassembled silt fence fabric with 36" TerraTex SF-D woven geotextile attached to 28" 12.5 gauge 2x4 welded wire. The TerraTex SF-D is made up of polypropylene filaments. These filaments are woven to form a stable and durable network such that the filaments retain their relative position. It is non-biodegradable and resistant to most soil chemicals, acids, and alkali with a pH range of 3 to 12. TerraTex SF-D is manufactured to meet or exceed the following minimum average roll values:

<u>Property</u>	<u>Test Method</u>	<u>Minimum Average Roll Value English</u>	<u>Minimum Average Roll Value Metric</u>
Grab Tensile	ASTM D-4632	124 x 124 lb	0.550 x 0.550 kN
Elongation	ASTM D-4632	15% x 15%	15% x 15%
Mullen Burst	ASTM D-3786	300 psi	2067 kPa
Puncture	ASTM D-4833	65 lb	0.289 kN
Trap Tear	ASTM D-4533	65 lb	0.289 kN
UV Resistance	ASTM D-4355	80% @ 500 hr	80% @ 500 hr
AOS	ASTM D-4751	30 US Sieve	0.600 mm
Permittivity	ASTM D-4491	0.05 sec-1	0.05 sec-1
Flow Rate	ASTM D-4491	8 gal/min/ft ²	325.6 l/min/m ²

1/2010

Contractor Certification: By signing below, I certify that the above submitted item(s) have been reviewed in detail and are correct, are in the proper units, and are in strict conformance with the contract drawings and specifications except as otherwise stated. The above submitted item(s) will be used on project AZ PFH 43-1(4) for pay item 15705-0100, Silt Fence

Bob The Contractor 05/12/11

815 Buxton Street Winston Salem, NC 27101
 888 - 239 - 4539 • Fax: 336 - 747 - 1652
 www.hanesgeo.com info@hanesgeo.com



U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
Central Federal Lands Highway Division
12300 W. Dakota Ave. Lakewood, Colorado 80228

Item Quantity Pay Note Sheet

Date:

Project Number: Project Name:

Account:

Pay Note Information:

Pay Item #: Item Description: Pay Unit:

Item Line #: Item Type:

Pay Note #: Pay Period:

Pay Note Entry:

Work Start Date: Work End Date:

Location/Description:

Deerlodge Entrance Road, Deerlodge pullouts/aprons/ditches, and Deerlodge Information Kiosk Parking Area have all been cracked sealed per contract specification on 08/31/11.

See attached support documentation for exact locations of work

Remarks/Calculations:

Per SCR 414.06, measure crack cleaning and sealing by the mile of one lane of roadway measured along the centerline denoting total length in miles. For parking areas or other locations quantified by areas in square feet, measure miles based on an 11 foot lane width.

Pay 6.68 miles (see attached support documentation for calculations)

Support Documentation/References:

Support Calculations and Certifications

Measured By:

TOTAL QUANTITY:

6.68 (MILE)

Interim Measurement Final Measurement

By signature below, I hereby certify that the measurements and calculations shown above are correct to the best of my knowledge and that the quantity being measured is subject to direct payment for the identified item under contract.

Contractor Representative (Print):

Date:

Contractor Representative (Signature):

Approved by FHWA Representative (Print):

Date:

Approved by FHWA Representative (Signature):

Checked by FHWA Representative (Signature):

Date:

crack cleaning and sealing support documentation



PROJECT PRA DINO PRES 1 (11)
 PAY ITEM 41411-1000 Crack Cleaning and Sealing
 PAY UNITS Mile BID QUANTITY 48.00

DATE 8/2/2011

EST # 2

Calculations:

Deerlodge Information Parking:
 (MP 3.01) 231'L x 20'W: (4620 SQFT) / (11' lane miles x 5280 feet/mile) = **0.08 miles**

SCHEDULE A

Area	Route #	Length (Mile)
Deerlodge Entrance Road	101	6.52
Deerlodge Pullouts, Aprons and Ditches	101	0.08
Deerlodge Information Kiosk Parking Area	913	0.08

MP 0.00 TO MP 6.52 = **6.52 miles**

Deerlodge Pullouts, Aprons Ditches: Total 6.68 Miles

Pullout A (MP 1.01) 80'L X 15'W: (1200 SQFT) / (11' lane miles x 5280 feet/mile) = 0.02 miles
 Pullout B (MP 4.56) 200'L X 12'W: (2400 SQFT) / (11' lane miles x 5280 feet/mile) = 0.01 miles
 Apron A (MP 2.33) 50'L X 12'W: (600 SQFT) / (11' lane miles x 5280 feet/mile) = 0.04 miles
 Pullout C (MP 5.01) 25'L x 24'W: (600 SQFT) / (11' lane miles x 5280 feet/mile) = 0.01 miles

Total = 0.08 miles

Inspected By Todd Birk, Harris & Associates Date 8/2/11

Contractor Acceptance James Rupp Date 8/24/11
 Contractor Representative Date

Project Engineer Approval Joe Kosine Date 8/18/11
 Joe Kosine, FHWA Project Engineer Date

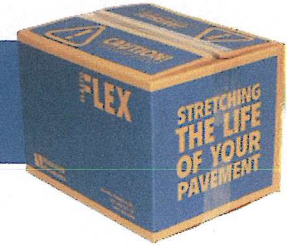
95.2% Complete

TOTAL This Sheet 6.68 Mile
 Total Previous Sheet 0.00 Mile
 Total Previous Date 0.00 Mile
 Total This Estimate 6.68 Mile
 Total Previous Estimate 39.02 Mile
 Total to Date 45.70 Mile

ELASTO FLEX 65

Specification

JOINT AND CRACK SEALANT, FOR ASPHALT AND CONCRETE PAVEMENTS



Elastoflex 65

is a hot applied polymer modified asphalt crack sealant for concrete and asphalt pavements. It is a self-leveling material that melts easily in the kettle yet sets up quickly upon cooling. Elastoflex 65 is formulated with a low viscosity, producing a material that will readily penetrate the crack, filling it from the bottom up. This material has a low flexibility, which enables it to perform extremely well in cold weather, yet also has a high softening point so it will not track. This material is well suited for either pour pots or pressure feed application systems.

Specification

Test

Cone Penetration: @ 77°F (25°C), ASTM D 5329
 Flexibility: 2 Sec. 1" Mandrel
 Softening Point: ASTM D 36
 Resilience: @ 77°F (25°C), ASTM D 5329
 Ductility: @ 77°F (25°C), 5 cm/min.
 Flow: @ 140°F (60°C), ASTM D 5329
 Asphalt Compatibility: ASTM D 5329

Specification

70 max.
 0°F min. (-18°C)
 205°F min. (96°C)
 35% min.
 40 cm min.
 3 mm max.
 Pass

Applicable Specs: ASTM D 5078

Application: Before use, the user must read and follow the Application Instructions for the above referenced sealant. This product must be heated using indirect heating methods, either a double boiler or hot oil circulating kettle. Equipment must have means of maintaining constant agitation to the material.

Recommended application temperature: 380°F (193°C).

Maximum safe heating temperature: 400°F (204°C).

Packaging: This product is packaged in approximately 30 lb. (13.6 kg) blocks with a dissolvable plastic liner that is capable of becoming part of the mixture.

Warranty: Maxwell Products, Inc. warrants that Elastoflex Sealants meet the applicable specifications at the time of shipment. Due to the many differing procedures used in preparing and installing sealants, Maxwell Products assumes no liability for sealant failure due to improper installation, equipment failure or operator errors. Any remedies are limited, at Maxwell Products' option, to replacement of materials or refund (full or partial) of the purchase price from Maxwell Products. Claims must be made within three (3) months of the date of purchase. There is no other warranty either expressed or implied.

Contractor Certification: By signing below, I certify that the above submitted item(s) have been reviewed in detail and are correct, are in the proper units, and are in strict conformance with the contract drawings and specifications except as otherwise stated. The above submitted item(s) will be used on project PRA DINO PRES 1(11) for pay item 41411-0000, Crack Cleaning and Sealing

Bob the Contractor 07/01/2011

Revised 07/2010

Maxwell
 PRODUCTS INCORPORATED
 650 South Delong Street ■ Salt Lake City, UT 84104

crack cleaning and sealing support documentation

ELASTOFLEX 65

LOT # 1106301
8/2/2011

13875

2782 Lbs Gross

103 Lbs Tare

2679 Lbs Net

ELASTOFLEX 65

LOT # 1107122
8/2/2011

13959

1107122

2838 Lbs Gross

107 Lbs Tare

2731 Lbs Net

ELASTOFLEX 65

LOT # 1106301
8/2/2011

13875

2800 Lbs Gross

104 Lbs Tare

2696 Lbs Net

ELASTOFLEX 65

LOT # 1106301
8/2/2011

13875

2807 Lbs Gross

109 Lbs Tare

2698 Lbs Net



U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
Central Federal Lands Highway Division
12300 W. Dakota Ave. Lakewood, Colorado 80228

Item Quantity Pay Note Sheet

Date:

Project Number: Project Name:

Account:

Pay Note Information:

Pay Item #: Item Description: Pay Unit:

Item Line #: Item Type:

Pay Note #: Pay Period:

Pay Note Entry:

Work Start Date: Work End Date:

Location/Description:

Centerline Abutment STA 8+143.037*:
Pile 1: Driven 01/01/08 and 01/02/08 Pile 6: Driven 01/05/08
Pile 2: Driven 01/02/08 Pile 7: Driven 01/05/08 and 01/08/08
Pile 3: Driven 01/03/08 Pile 8: Driven 01/08/08
Pile 4: Driven 01/04/08 Pile 9: Driven 01/09/08
Pile 5: Driven 01/04/08 Pile 10: Driven 01/10/08 *See attached Pile Layout

Remarks/Calculations:

Piles 1 through 10 were each driven 15.24 meters

(15.24 meters/pile) X (10 piles) = 152.4 meters

Support Documentation/References:

Pile Layout. Example for an acceptable Micro-pile submittal, capacity computation, and certification.

Measured By:

TOTAL QUANTITY: 152.4 (meters)

Interim Measurement Final Measurement

By signature below, I hereby certify that the measurements and calculations shown above are correct to the best of my knowledge and that the quantity being measured is subject to direct payment for the identified item under contract.

Contractor Representative (Print):

Date:

Contractor Representative (Signature):

Approved by FHWA Representative (Print):

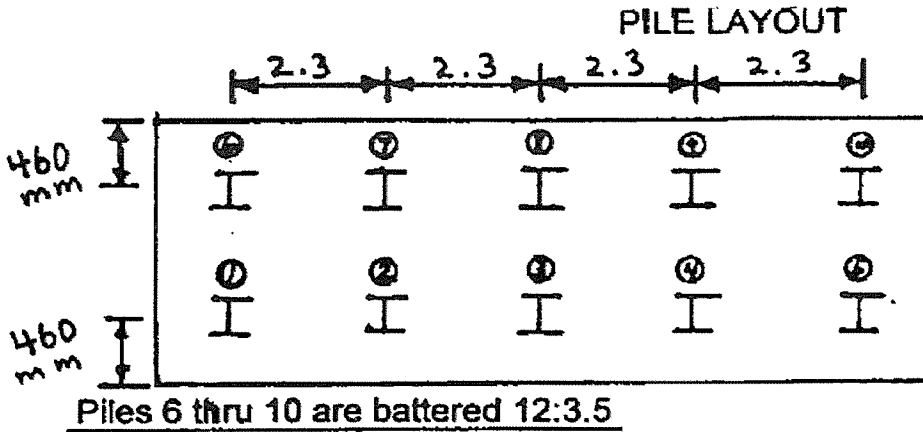
Date:

Approved by FHWA Representative (Signature):

Checked by FHWA Representative (Signature):

Date:

driven pile support documentation



8+143.037
C/L ABUT

Pile Driving Record

1/10/1998
Bolder Creek Bridge
Abutment #2

Pile Type: HP 250 x 85
Hammer Name/Model: Delmag D8-22

Hammer Energy: 23.87 kN-m
Req'D Bearing: 440 kN

Pile No.	Length in Leads (m)	Cut Off Length (m)	Cut Off Elev. (m)	Tip Elev. (m)
1	7.62	0.229	238.658	225.552
	7.62	1.905	238.658	
2	15.24	3.100	238.658	226.518
3	15.24	3.200	238.658	226.619
4	15.24	2.819	238.658	226.238
5	15.24	2.234	238.658	225.653
6	7.62	0.305	238.658	225.857
	7.62	1.600	238.658	
7	15.24	2.643	238.658	226.564
8	15.24	2.691	238.658	226.613
9	15.24	2.286	238.658	226.223
10	15.24	1.829	238.658	225.784
	152.4	24.841		

Pile No.	Ground Elev (m)	Blows per 25mm	55101 (m)	55106 (ea)
1	238.354	6	13.11	1
	238.354			
2	238.354	7	12.14	
3	238.354	7	12.04	
4	238.354	6	12.42	
5	238.354	6	13.01	
6	238.354	6	12.8	1
	238.354			
7	238.354	7	12.09	
8	238.354	7	12.05	
9	238.354	8	12.44	
10	238.354	6	12.87	
			125.0	2



U.S. Department of Transportation
Federal Highway Administration

driven pile support documentation

Central Federal Lands
Highway Division
Field Office

CERTIFICATE OF COMPLIANCE

PROJECT: Beartooth Hwy. (U.S. 212)

DATE: 4-16-09

CONTRACT NO.: HPP 4-1 (5)

ITEM: 56901-0000

DESCRIPTION: Neat Cement Grout

QUANTITY: Per Plans

CONTRACTOR: HK Contractors

I certify that the materials covered by invoice no. 00012

comply with AASHTO _____, ASTM _____, or

other contract requirements as follows: FP-03 Sec.725.22 (f)

Test results on samples of the materials can be reviewed at (address):
See attached

I also certify that all materials and components directly incorporated into these construction materials, if applicable, comply with the requirements of the "BUY AMERICAN ACT".

COMPANY: CE&MT

ADDRESS: 3677 N. Hwy. 126 Suite A
Farr West, Utah 84404

BY: *[Signature]*
(Signature)

TITLE: Quality Control Supervisor

driven pile support documentation

INTRODUCTION

HBI understands that during the ongoing mitigation of the Bear Tooth Highway, a bridge over Little Bear Creek will be replaced. Micro-piling has been selected as a noninvasive means of supporting the structure. Due to the sensitivity of the area, extra precautions will be taken to insure the well being of the surrounding areas.

MICRO PILES METHODS

Micro piles are small diameter piles that can be installed in almost any type of ground where piles are required, with design loads as small as 2,700 kg and as high as 362,000 kg. Also known as minipiles, pin piles, needle piles or root piles, micropiles can offer a viable alternative to conventional piling techniques, particularly in restricted access or low headroom situations.

Initially, a steel pipe or casing is generally drilled or driven to the required bearing stratum or depth. The bearing element of the pile is then constructed. This may consist of simply socketing the pile tip into a rock formation or it may include various other drilling and grouting techniques within the bearing stratum. A center steel bar is typically inserted into the hole. The steel pipe/casing is then filled with grout and may be partially or fully extracted. The grout can be pressurized to increase pile/soil bond. The connection to the foundation is then constructed by tying into the micropile.

driven pile support documentation

MICROPILE INSTALLATION

Micropiles will be installed with a KLEMM 806-2 drill weighing approximately 17,237 kg and a KLEMM KR 803-2 weighing approximately 11,521 kg.

Micro pile drilling will be conducted utilizing a duplex drilling system where-by the casing is installed to the depth of bedrock with an inner string and air hammer. The drill cuttings will be forced through the casing and out a flushing bell near the head of the drill. The casing will be advanced into the bedrock to insure a secure "seat". The inner string is then advanced to the depth specified in the provided plans. Generally this depth is 2.9 meters into the bedrock creating a bond zone. The inner string and air hammer are then removed from the casing. High strength thread bar is installed into the casing with centralizers to provide adequate grout cover. The hole will then be tremie grouted from the bottom, up with 28 MPa neat cement grout.

Neat cement grout for the micropiles will be mixed on-site using a high-shear colloidal mixer.

driven pile support documentation

MICROPILE QA/QC

HBI will utilize a variety of QA/QC methods during this project. One micropile per cap will be proof tested in tension, for a total of 2. One additional sacrificial pile will be installed and performance tested in tension. The tension test will verify the soil to grout bond capacity. Load verification will not include a pile compression test.

HBI's QA/QC program will consist of preconstruction submittals, design, and field documentation. The field documentation will include drilling logs filled out by HBI's driller describing in general terms the conditions encountered during drilling. The grouting operations will also be documented on forms by HBI personnel to describe the grout volume experienced during construction of each micropile.

Material certifications will be submitted when they become available from the manufacturer.

Micro pile Testing

Proof Tests

HBI will proof test two micro piles in tension during the project. The load will be applied using a calibrated jack as outlined in the attached schematic. Load on the pile will be measured by hydraulic pressure as read on a pressure gauge. Calibration factors will be used for this and obtained from the calibration of the gauge/jack system. Two displacement gauges accurate to .025 mm will be used for these measurements.

A calibration chart for the hydraulic ram showing the gauge pressure to force relationship will be submitted when available. The ram is currently being calibrated.

Loading of the pile will be conducted in steps of 25% of the design load. The load will be held long enough to get a displacement reading and then increased to the next step. Loading in steps assists in determining micro pile performance and safety during the test. Displacements will be noted at each increment as outlined in the loading sequence.

Micropile failure will be evaluated using the following general criteria:

- 1) More than 13 mm total vertical movement at 100% of design load as measured relative to the pile prior to the start of testing.
- 2) Movement during the creep test exceeding 1 mm / log cycle time (1 to 10 minutes) or 2 mm / log cycle time (6 to 60 minutes) and has a linear or decreasing creep rate.
- 3) Slope of the load vs. deflection curve should be less than .635mm per kip at 1.33DL.

After the test is completed the setup will be removed and the pile will be prepared as the rest of production piles. A copy of the report to be submitted following the proof test is attached below. Our ram calibration curve will be provided in English units, however we

driven pile support documentation

will convert all results to SI prior to submittal.

**MICROPILE
TENSION STATIC PILE LOAD TEST**

DATE: _____		PILE PROPERTIES: 5.5 00 x 0.361 Wpl
HBI JOB No: _____		
DESCRIPTION: _____	SeaTonn H30/H33	PILE LENGTH: 0 Feet
DESIGN LOAD (TENSION): _____	170 kips	APPROXIMATE SURFACE ELEV: 0
JACK: SPX Power Team RM2005 200 ton	AL @ 50 PSI = 1 Hole	ELEVATION AT TIP: 0

TEST LOAD	ELAPSED TIME (HR:MM:SS)	JACK GAUGE #1 (PSI)	JACK ACTUAL FIELD (PSI)	JACK LOAD (KIPS)	DIAL GAUGE READINGS		AVG TOTAL DEFL (IN)	NOTES
					Left (IN)	Right (IN)		
AL (9.44 DL)	0:00:00	230		9			0.000	
0.25 DL	0:01:00	1170		43			0.000	
0.50 DL	0:02:00	2200		95			0.000	
0.75 DL	0:03:00	3280		128			0.000	
1.00 DL	0:04:00	4330		170			0.000	
1.33 DL	0:05:00	5740		226			0.000	
1.33 DL	0:06:00	5740		226			0.000	
1.33 DL	0:07:00	5740		226			0.000	
1.33 DL	0:08:00	5740		226			0.000	
1.33 DL	0:09:00	5740		226			0.000	
1.33 DL	0:10:00	5740		226			0.000	
1.33 DL	0:11:00	5740		226			0.000	
1.33 DL	0:12:00	5740		226			0.000	
1.33 DL	0:13:00	5740		226			0.000	
1.33 DL	0:14:00	5740		226			0.000	
1.33 DL	0:15:00	5740		226			0.000	
1.67 DL	0:16:00	7250		284			0.000	
AL (9.65 DL)	0:17:00	230		9			0.000	

Performance / Load Verification Test

One pre-production pile load test to verify the design of the pile system and the construction methods proposed prior to installing any production piles. This pre-production pile will require a #89 bar in order to pull the anchor to failure. The sacrificial pile load test results will be submitted for review or acceptance.

The attached diagram shows the initial setup for a pile tension test. The cribbing on the reaction beam will be a minimum of 2.2 m from the test pile. A pressure gauge will be used to measure the load on the pile. Dial gauges accurate to 0.025 mm will be used to measure the deflection and thus the load on the pile. The testing ram, jack and gauge setup is being calibrated together to ensure accuracy. The pressure gauge is accurate to 50 PSI or .35 MPa.

Also attached is a copy of the report that will be submitted after the performance test. The report includes times, loads and elongations at each increment. . Our ram calibration curve is provided in English units, however we will convert all results to SI units prior to submittal.

driven pile support documentation

MICROPILE
TENSION STATIC PILE LOAD TEST

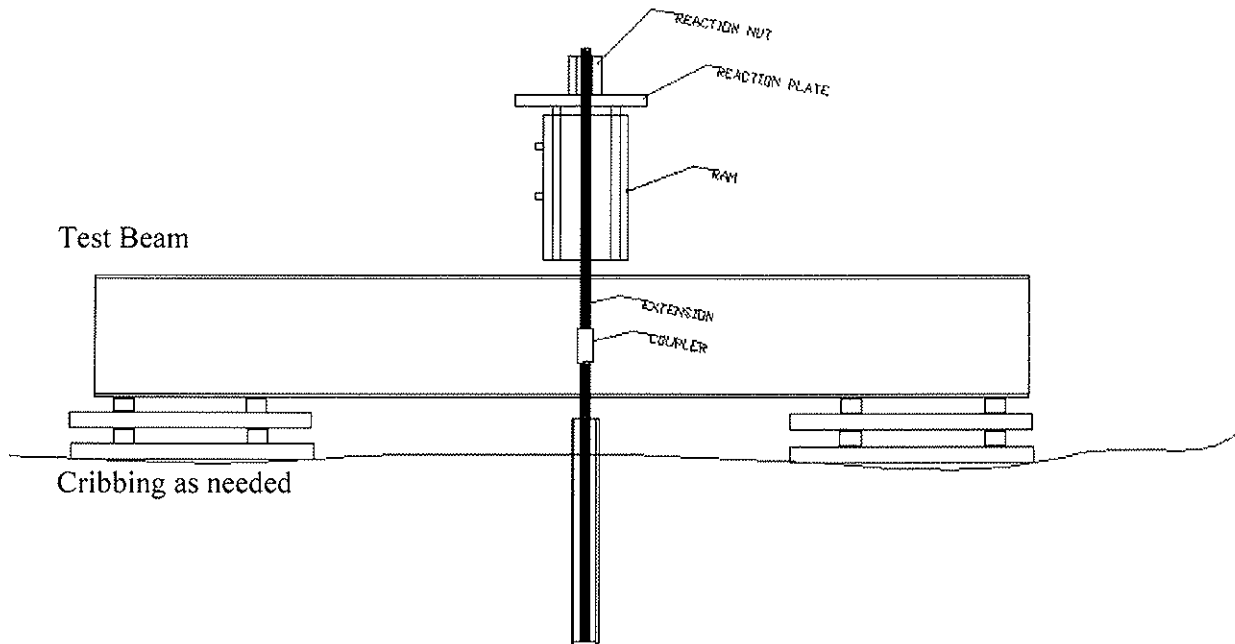
DATE: _____
 HB# JOB No: _____
 DESCRIPTION: Bear Tooth Highway
 DESIGN LOAD (TENSION): 170 kips
 JACK: SPX Power Team RH0225 200 ton
 AL @ 60 PSI = 3 kips

PILE PROPERTIES: 5.5 CD x 0.351 Wvl
 PILE LENGTH: 0 Feet
 APPROXIMATE SURFACE ELEV.: 0
 ELEVATION AT TIP: 0

TEST LOAD	ELAPSED TIME Hours:minutes	JACK GAGE (I) (psi)	JACK ACTUAL FIELD (psi)	JACK LOAD (kips)	DUAL GAGE READINGS		AVG TOTAL DEFL (in)	NOTES
					GAGE #1 (in)	GAGE #2 (in)		
AL (645 DL)	0:00:00	230		9			0.000	
0.25 DL	0:01:00	1170		43			0.000	
0.50 DL	0:02:00	2300		85			0.000	
AL (645 DL)	0:03:00	230		9			0.000	
0.25 DL	0:04:00	1170		43			0.000	
0.50 DL	0:05:00	2300		85			0.000	
0.75 DL	0:06:00	3260		123			0.000	
AL (645 DL)	0:07:00	230		9			0.000	
0.25 DL	0:08:00	1170		43			0.000	
0.50 DL	0:09:00	2300		85			0.000	
0.75 DL	0:10:00	3260		123			0.000	
1.00 DL	0:11:00	4330		170			0.000	
AL (645 DL)	0:12:00	230		9			0.000	
0.25 DL	0:13:00	1170		43			0.000	
0.50 DL	0:14:00	2300		85			0.000	
0.75 DL	0:15:00	3260		123			0.000	
1.00 DL	0:16:00	4330		170			0.000	
1.33 DL	0:17:00	5740		226			0.000	
1.33 DL	0:18:00	5740		226			0.000	
1.33 DL	0:19:00	5740		226			0.000	
1.33 DL	0:20:00	5740		226			0.000	
1.33 DL	0:21:00	5740		226			0.000	
1.33 DL	0:22:00	5740		226			0.000	
1.33 DL	0:26:00	5740		226			0.000	
1.33 DL	0:36:00	5740		226			0.000	
1.33 DL	0:46:00	5740		226			0.000	
1.33 DL	1:06:00	5740		226			0.000	
1.33 DL	1:16:00	5740		226			0.000	
1.75 DL	1:17:00	7560		298			0.000	
2.0 DL	1:18:00	7800		383			0.000	
2.0 DL	1:19:00	7800		383			0.000	
2.0 DL	1:20:00	7800		425			0.000	
2.0 DL	1:22:00	7800		425			0.000	
2.0 DL	1:24:00	7800		425			0.000	
AL (645 DL)	1:25:00	230		9			0.000	

driven pile support documentation

Micro Pile Test Setup



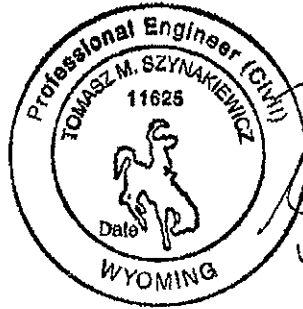
Production QA/QC Methods

HBI will employ a full time qualified Superintendent for the duration of the work. Daily site reports will also be completed by the Superintendent and submitted to the Contractor.

driven pile support documentation

MICROPILE DESIGN CALCULATIONS
Project: Little Bear Creek Bridge #1
Location: Shoshone National Forest
Job #: 48905
By: TSP
Checked By: TMS
Date: 03/13/09

**HAYWARD
BAKER**
Denver Grouting Division



[Handwritten signature]
13 Mar 2009
-TMS

Introduction: A new bridge is being constructed along the Beartooth Highway. Abutments on either end of the bridge will bear on a deep foundation system consisting of micropiles.

Hayward Baker will install 9.625 inch diameter cased micropiles as summarized below. A working load of 170 kips in axial compression and 8.3 kips in lateral per micropile has been specified. Soil borings from FHWA, page number RG2711-D, Project Number WY HPP 4-1(4). Borings THB-8, THB-24, THB-25 were assumed as the closest boring to the work and reflects an overburden (which will be cased) soil then a bedrock consisting of Gneiss or Medium Strong to Strong Sandstone. All bedrock has been assumed as Sandstone for design. Bond values used in Sandstone are from: Rock Anchors, State of the Art, by Littlejohn and Bruce, 1977, Table III.

Design Load:

170 kips

Casing Diameter

9.625 in

driven pile support documentation

MICROPILE DESIGN CALCULATIONS

Project: Little Bear Creek Bridge #1

Location: Shoshone National Forest

Job #: 48905

By: TSP

Checked By: TMS

Date: 03/13/09



Introduction: A new bridge is being constructed along the Beartooth Highway. Abutments on either end of the bridge will bear on a deep foundation system consisting of micropiles.

Hayward Baker will install 245 mm diameter cased micropiles as summarized below. A working load of 758 kN in axial compression and 37 kN in lateral per micropile has been specified. Soil borings from FHWA, page number RG2711-D, Project Number WY HPP 4-1(4). Borings THB-8, THB-24, THB-25 were assumed as the closet boring to the work and reflects an overburden (which will be cased) soil then a bedrock consisting of Gneiss or Medium Strong to Strong Sandstone. All bedrock has been assumed as Sandstone for design. Bond values used in Sandstone are from: Rock Anchors, State of the Art, by Littlejohn and Bruce, 1977, Table III.

Design Load:

Pdes := 758·kN

Casing Diameter

ODCasing := 245·mm

driven pile support documentation

MICROPILE DESIGN CALCULATIONS

Project: Little Bear Creek Bridge #1

Location: Shoshone National Forest

Job #: 48905

By: TSP

Checked By: TMS

Date: 03/13/09



Casing Wall Thickness	$WallCasing := 14 \cdot mm$	
	$IDCasing := ODCasing - 2 \cdot WallCasing$	
	$AreaCasing := \left(\frac{\pi}{4}\right) \cdot (ODCasing^2 - IDCasing^2)$	
Area of Threadbar	$AREABar := 1452 \cdot mm^2$	$AreaCasing = 0.01 \cdot m^2$
	$\phi Threadbar := 43 \cdot mm$	
Grout Area In Casing	$AREAGroutCasing := \left(\frac{\pi}{4}\right) \cdot IDCasing^2 - AREABar$	
	$AREAGroutCasing = 0.036 \cdot m^2$	
Grout Strength	$Fgrout := 28 \cdot MPa$	
Casing Strength	$Fycasing := 552 \cdot MPa$	
Bar Strength	$Fybar := 517 \cdot MPa$	
Allowable Grout Stress	$\sigma_{allowgrout} := 0.33 \cdot Fgrout$	$\sigma_{allowgrout} = 9.24 \cdot MPa$
Allowable Casing Stress	$\sigma_{allowcasing} := 0.4 \cdot Fycasing$	$\sigma_{allowcasing} = 220.8 \cdot MPa$
Allowable Bar Stress	$\sigma_{allowbar} := 0.4 \cdot Fybar$	$\sigma_{allowbar} = 206.8 \cdot MPa$

Allowable Load In Upper Pile Zone

driven pile support documentation

MICROPILE DESIGN CALCULATIONS
Project: Little Bear Creek Bridge #1
Location: Shoshone National Forest
Job #: 48905
By: TSP
Checked By: TMS
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$$P_{\text{allowableupper}} := \text{AreaCasing} \cdot \sigma_{\text{allowcasing}} + \text{AREAGroutCasing} \cdot \sigma_{\text{allowgrout}}$$

$$P_{\text{allowableupper}} = 578.123 \cdot \text{kip}$$

Allowable Load in Bond Zone $\phi_{\text{bond}} := 20.32 \cdot \text{cm}$

Bond Zone Diameter

Area of Grout in Bond Zone $\text{AREAGroutBondZone} := \left(\frac{\pi}{4}\right) \cdot \phi_{\text{bond}}^2 - \text{AREABar}$

$$\text{AREAGroutBondZone} = 0.031 \text{ m}^2$$

Load Carried By Grout $P_{\text{grout}} := \text{AREAGroutBondZone} \cdot \sigma_{\text{allowgrout}}$

$$P_{\text{grout}} = 286.23 \cdot \text{kN}$$

Load Carried by Threadbar $P_r := P_{\text{des}} - P_{\text{grout}} \quad P_r = 471.77 \cdot \text{kN}$

Required Threadbar Area $A_{\text{threadbarrequired}} := \frac{P_r}{\sigma_{\text{allowbar}}}$

$$A_{\text{threadbarrequired}} = 22.813 \cdot \text{cm}^2$$

Bond Length Of Micropile

$$\text{AREABar} = 14.52 \cdot \text{cm}^2$$

Factor of Safety $\text{FOS} := 2.0$

Ultimate Bond $\Sigma_{\text{Ult}} := 827.371 \text{ kPa}$

driven pile support documentation

MICROPILE DESIGN CALCULATIONS

Project: Little Bear Creek Bridge #1

Location: Shoshone National Forest

Job #: 48905

By: TSP

Checked By: TMS

Date: 03/13/09



Ultimate Bond Stress in Bond Zone

$$\sigma_{ultbond} := \sum U_{lt}$$

Allowable Bond Stress in Bond Zone

$$\sigma_{allowbond} := \frac{\sigma_{ultbond}}{FOS}$$

Allowable Load Per Foot

$$\sigma_{allowbond} = 4.137 \times 10^5 \text{ Pa}$$

Required Bond Length

$$F_{allow} := \sigma_{allowbond} \cdot \phi_{bond} \cdot \pi$$

$$L_{bond} := \frac{P_{des}}{F_{allow}}$$

$$F_{allow} = 59.369 \text{ m}^{-1} \cdot \text{kip}$$

$$L_{bond} = 2.87 \text{ m}$$

USE LBOND=2.9m

Summary: Drilling duplex with casing and down-hole-hammer through overburden soils and into the bedrock. Once bedrock is contacted, a 2.9 m bond zone will be drilled. Drill tooling will be pulled out, a #43, grade 520 threadbar will be installed into the hole, and the hole will be tremie grouted with a 28 MPa neat cement grout mixed to a water/cement ratio by weight of 0.43 -0.50 . A water reducer (Glenium 3030NS) may be added to grout during mixing at the rate of 4.0 oz per 100 lbs of cement.

driven pile support documentation

SAND

CHARACTERISTIC LOAD METHOD OF ANALYSIS FOR LATERALLY LOADED PILES 02/13/04 PROJECT NO.: 48005
 CLM2.0 August, 2001 NAME: Little Bear Creek Bridge #1
 Duncan, J. M., Evans, Jr., L. T. and Oel, P. S. K. (1984) "Lateral Load Analysis of Single Piles and Drilled Shafts." J. Geol. Div. ASCE, (120) No. 6, 1018-1032.
 Bretmann, T. and Duncan, J. M. (1988) "Computer Application of CLM Lateral Load Analysis to Piles and Drilled Shafts." J. Geol. Div. ASCE (122) No. 8, 498-500.
 Motwa, R. L. and Duncan, J. M. (2001) "Laterally Loaded Pile Group Effects and P-Y Multipliers."

SOIL TYPE: SAND

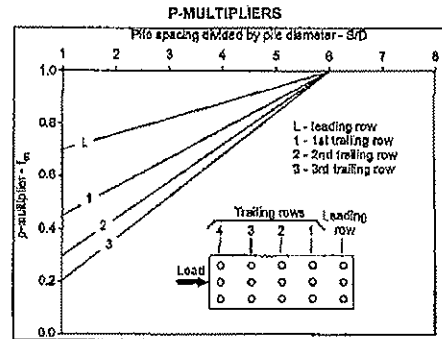
UNITS	INPUT PARAMETERS	INSTRUCTIONS AND DEFINITIONS	CALCULATED PILE PARAMETERS								
	FORCE = KIPS LENGTH = IN SOIL PROPERTIES $\phi = 38$ DEGREES $\gamma = 7.50E-06$ KIPS/IN ³ $K_p = 4.20$ PILE PROPERTIES $D_o = 9.626$ IN $D_i = 8.535$ IN $I = 0$ IN ⁴ $Rcr = 1$ $E_p = 28000$ KIPS/IN ² $L = 275.62$ IN PILE GROUP PROPERTIES $Nrow = 1$ $S/D = 3$	Select either CLAY or SAND soil conditions worksheet. Input data in red cells only. S_u = Undrained shear strength for clay ϕ = Effective friction angle for sand γ = Effective unit weight for sand D_o = Outside pile diameter (circular) or width (noncircular) D_i = Inside diameter of pipe pile (enter zero for solid section) I = Moment of inertia for any noncircular section (enter zero for circular section) Rcr = Ratio of cracked EI to uncracked EI E_p = Modulus of elasticity of pile or drilled shaft L = Length of pile or drilled shaft $Nrow$ = Number of rows in pile group S/D = Pile spacing to diameter ratio Fm = Group efficiency	CALCULATED PILE PARAMETERS $I_{circ} = 421.28$ IN ⁴ (1 for solid circle) $Rf = 0.38$ (1 for I-pile) $E_p Rf = 11068.81$ KIPS/IN ² $E_p Rf \gamma D^4 \gamma_s = 98,058$ $L/D = 29$ CHARACTERISTIC LOAD AND MOMENT $P_c = 2326.8$ KIPS $M_c = 133396.4$ IN-KIPS CALCULATED P-MULTIPLIER $Fm = N/A$ for $Nrow=1$ MINIMUM REQUIRED L/D FOR CLM <table style="font-size: small;"> <tr> <td>$E_p Rf \gamma D^4 \gamma_s =$</td> <td>10,000</td> <td>40,000</td> <td>200,000</td> </tr> <tr> <td>L/D</td> <td>8</td> <td>11</td> <td>14</td> </tr> </table>	$E_p Rf \gamma D^4 \gamma_s =$	10,000	40,000	200,000	L/D	8	11	14
$E_p Rf \gamma D^4 \gamma_s =$	10,000	40,000	200,000								
L/D	8	11	14								

LOADING CONDITION: LOAD ONLY

FREE HEAD								FIXED HEAD							
SINGLE PILE				GROUP				SINGLE PILE				GROUP			
PI KIPS per Pile	P/Pc	Y/D	Yp IN	Mmax IN-KIPS	Yp IN	Mmax IN-KIPS	PI KIPS per Pile	P/Pc	Y/D	Yp IN	Mmax IN-KIPS	Yp IN	Mmax IN-KIPS		
8.3	0.0036	0.0223	0.214	233.9	N/A for Nrow=1	N/A for Nrow=1	0.0	0.0000	0.0000	0.000	0.0	N/A for Nrow=1	N/A for Nrow=1		
7.5	0.0032	0.0191	0.184	203.3	N/A for Nrow=1	N/A for Nrow=1	0.0	0.0000	0.0000	0.000	0.0	N/A for Nrow=1	N/A for Nrow=1		
7.0	0.0030	0.0172	0.165	184.8	N/A for Nrow=1	N/A for Nrow=1	0.0	0.0000	0.0000	0.000	0.0	N/A for Nrow=1	N/A for Nrow=1		
6.0	0.0026	0.0148	0.131	149.3	N/A for Nrow=1	N/A for Nrow=1	0.0	0.0000	0.0000	0.000	0.0	N/A for Nrow=1	N/A for Nrow=1		
5.0	0.0021	0.0103	0.089	116.0	N/A for Nrow=1	N/A for Nrow=1	0.0	0.0000	0.0000	0.000	0.0	N/A for Nrow=1	N/A for Nrow=1		
4.0	0.0017	0.0073	0.071	85.2	N/A for Nrow=1	N/A for Nrow=1	0.0	0.0000	0.0000	0.000	0.0	N/A for Nrow=1	N/A for Nrow=1		
3.0	0.0013	0.0047	0.046	57.2	N/A for Nrow=1	N/A for Nrow=1	0.0	0.0000	0.0000	0.000	0.0	N/A for Nrow=1	N/A for Nrow=1		
2.0	0.0009	0.0025	0.025	32.6	N/A for Nrow=1	N/A for Nrow=1	0.0	0.0000	0.0000	0.000	0.0	N/A for Nrow=1	N/A for Nrow=1		
1.0	0.0004	0.0008	0.008	12.5	N/A for Nrow=1	N/A for Nrow=1	0.0	0.0000	0.0000	0.000	0.0	N/A for Nrow=1	N/A for Nrow=1		
0.0	0.0000	0.0000	0.000	0.0	N/A for Nrow=1	N/A for Nrow=1	0.0	0.0000	0.0000	0.000	0.0	N/A for Nrow=1	N/A for Nrow=1		

LOADING CONDITION: MOMENT ONLY

FREE HEAD			
MI IN-KIPS	M/Mc	Ym/D	Ym IN
0.0	0.0000	0.0000	0.00
0.0	0.0000	0.0000	0.00
0.0	0.0000	0.0000	0.00
0.0	0.0000	0.0000	0.00
0.0	0.0000	0.0000	0.02
0.0	0.0000	0.0000	0.03
0.0	0.0000	0.0000	0.00
0.0	0.0000	0.0000	0.00
0.0	0.0000	0.0000	0.00
0.0	0.0000	0.0000	0.00
0.0	0.0000	0.0000	0.00
0.0	0.0000	0.0000	0.00
0.0	0.0000	0.0000	0.00
0.0	0.0000	0.0000	0.00



LOADING CONDITION: COMBINED LOAD AND MOMENT

FREE HEAD														
PI KIPS per Pile	M IN-KIPS	P/Pc	Yp/D	M/Mc	Ym/D	Po/Pc	Mo/Mc	$\Sigma P/Pc$	$\Sigma M/Mc$	$\Sigma Yp/D$	$\Sigma Ym/D$	Yavg/D	Yavg IN	
0.0	0.0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	N/A	#VALUE!	
0.0	0.0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	N/A	#VALUE!	
0.0	0.0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	N/A	#VALUE!	
0.0	0.0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	N/A	#VALUE!	
0.0	0.0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	N/A	#VALUE!	
0.0	0.0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	N/A	#VALUE!	
0.0	0.0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	N/A	#VALUE!	
0.0	0.0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	N/A	#VALUE!	
0.0	0.0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	N/A	#VALUE!	
0.0	0.0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	N/A	#VALUE!	

TMS

driven pile support documentation

MICRO-PILE INSTALLATION LOG

<p style="text-align: center;">PILE I.D. _____</p> <p>SURFACE ELEVATION = 3284</p> <p style="text-align: center;">CL</p> <p style="text-align: center;">PL</p> <p style="text-align: center;">BL</p> <p>TIP ELEVATION = _____</p>	<p style="text-align: center;">Drilling details</p> <p>Angle = _____</p> <hr/> <p>Bedrock = _____</p> <hr/> <hr/> <hr/>
<p>DATE DRILLED _____</p> <p>Casing Size = 7 5/8 in</p> <p>Bar Size = # 18</p> <p>Drill _____</p> <p>Driller _____</p>	
<p>DATE GROUTED _____</p> <p>Total gals = _____</p> <p>Max pressure = NA</p> <p>Grout mix</p> <p>420 gal / 1000 lb cement (Type 1)</p> <p>Admixture 40 OZ Glenium</p>	
<p>GEOMETRY _____ (ft)</p> <p>CL Casing length = _____</p> <p>PL Pile length = _____</p> <p>BL Bar length = _____</p>	
<p>COMMENTS: _____</p> <hr/> <hr/> <hr/>	

driven pile support documentation

Hayward Baker									
Pile #	Ultimate Load (lbs)	Gauge Pressure (psi)	Load (lbs)	Actual gauge pressure	Actual Load (lbs)	Dial indicator 1 (in)	Dial indicator 2 (in)	Total Length (ft)	Angle
	115500								10
Step	Increment	Pressure (psi)	Load (lbs)	Actual gauge pressure	Actual Load (lbs)	Dial indicator 1 (in)	Dial indicator 2 (in)		Average Movement (in)
1	0	0	0	100	755				0.000
2	AL	538	9500	600	10745				0.000
2	0.25DL	1026	19250	1250	23732				0.000
3	0.50DL	1988	38500	2500	48707				0.000
4	0.75DL	2951	57750	3650	71684				0.000
5	1.00DL	3913	77000	4800	94661				0.000
6	1.20DL	4876	96250	6000	118637				0.000
7	1.50DL	5838	115500	7200	142613				0.000
8			2 min	7200	142613				0.000
9			3 min	7200	142613				0.000
10			4 min	7200	142613				0.000
11			5 min	7200	142613				0.000
12			6 min	7200	142613				0.000
13			10 min	7200	142613				0.000
Rock Socket Length (ft)	Free length (in)	Start of 10 min. load hold (in)	End of 10 min. load hold (in)	Creep (in)	Creep < 0.04 (in) ?	Movement at DL < 0.125 in	Free Length Elongation (in)	Total Elastic Movement (in)	
10		0.000	0.000	0.000	yes	yes	0.000	0.000	

driven pile support documentation

Hayward Baker Inc. Selected Projects: Large Micropile Jobs within the past 5 years

Job Info	Year	Amount	Owner	Engineer	Contractor	Remarks
48883 McCoy Springs Edwards, CO	2008	\$250,000	Rich Seth Warner Developments Avon, CO (970)949-4360			Micropiles to stabilize structure on slope
48813 Rolling Hills Wind Farm (Micropiles) Glenrock, WY	2008	\$2,505,738	Raeburn Roger PacifiCorp Energy Portland, OR (503)813-6667	Kevin Cramer Tetra Tech EC Morris Plains, NJ (973)630-8000	Kevin Cramer Tetra Tech EC Morris Plains, NJ (973)630-8000	Micropile portion of Rolling Hills Wind Farm ground improvement and construction of new foundation for new wind farm
48790 Wheeler Switchback #1 Parachute, CO	2008	\$807,683	Blake Roush Williams Parachute, CO (970)263-5321			Slope stabilization to protect oil and gas access roadway. Emergency job to support ~450 LF of roadway
48741 Exxon Mobil Refinery- Construction Billings, MT	2008	\$590,913	Gary Krieger Exxon Mobil Refinery Billings, MT (406)657-5380	Tom McCormick Technip USA Houston, TX (281)870-1111	Chad Peterson COP Construction Company Billings, MT (406)656-4632	Micropiles for new foundation at Exxon Mobil refinery
48674 Lutheran Medical Center Wheat Ridge, CO	2007	\$159,000	Tom Willson Exempla Lutheran Medical Center Wheat Ridge, CO (303)917-7704			40 micropiles inside a hospital
48656 Sweetwater Lodge Teton Village, WY	2007	\$412,335	unknown Unknown Sweetwater Lodge LLC Boise, ID (208)385-9876			micropile wall for construction of new hotel
48643 705 Whiskey Ridge Edwards, CO	2007	\$293,700	Mr Kerzner Walden CC LLC Nassau, 9708455656			Micropiles for expansive soils for new home construction
48572 Rapid City Regional Hospital Tunnel Rapid City, SD	2007	\$320,000	Vern Osterloo Rapid City Regional Hospital Rapid City, SD (605)388-0029	Mike Albertson Albertson Engineering Inc. Rapid City, SD (605)343-9806	J Chydka J Scull Construction Service Inc. Rapid City, SD (605)342-2379	3,000 SF micropile shoring for open-cut tunnel under existing hospital central utility plant.

driven pile support documentation

	Job Info	Year	Amount	Owner	Engineer	Contractor	Remarks
48515	Essex Snow Shed 2007 Essex, MT	2007	\$915,930	Ron Berry BNSF Railway Company Kansas City, KS (913)551-4163			Micro-piles to stabilize outer post foundations on snowshed 12.
48493	Red Sky 2007 Wolcott, CO	2006	\$236,935	John Reece R & R Homes Carr, CO (970)231-2003		Bepko Scheidegger Vail Valley Custom Builders Edwards, CO (970)926-8771	Micro-piles for residence in expansive clays
48490	Frontier Refinery Cheyenne, WY	2006	\$259,878	Jim Casillo Frontier Oil Corporation Houston, TX (713)988-9600		Jim Casillo D-Cok, LLC Houston, TX (713)690-9050	40 Micro-piles to 23 FT deep 9 5/8 casing.
48275	Essex Snow Shed Essex, MT	2005	\$392,800	Clyde Lobb BNSF Railway Fl Worth, TX (817)352-4114	Ron Barry BNSF Railway Company Kansas City, KS (913)651-4163		Micro-pile installation for snowshed re-support. 1 test pile, 25 micro-piles
48231	Red Sky Ranch Phase II Wolcott, CO	2005	\$900,000	Peter Perifold Community Concepts, LLC Edwards, CO (970)926-1720	Scott Myers Koechlein Consulting Engineers, Inc. Lakewood, CO (303)989-1223	Pete Perifold Architectural Impact Edwards, CO (970)926-1720	Steeved micro-piles for new foundations for 12 large homes in the Vail Colorado area.
48177	Vail Plaza Phase II Vail, CO	2005	\$846,766	Walter Prado Vail Village Inn Vail, CO (970)476-4657	John Mechling CTL Thompson Inc. Glenwood Springs, CO (303)945-2809	Chuck MacDonald Shaw Construction Denver, CO (303)825-4740	Micro-piles for crane pads & large footings due to soft soils.
48093	Rose Medical Center Denver, CO	2005	\$237,750	Mark Peterman Rose Medical Center Denver, CO (303)355-5412	Mark Peterman L.A. Fuess Partners, Inc. Dallas, TX (214)871-7010	Walter Jones Bovis Lend Lease, Inc. Nashville, TN (615)963-2600	Micro-piles and structure jacking of 6 story parking garage column.



U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
Central Federal Lands Highway Division
12300 W. Dakota Ave. Lakewood, Colorado 80228

Item Quantity Pay Note Sheet

Date:

Project Number: Project Name:

Account:

Pay Note Information:

Pay Item #: Item Description: Pay Unit:

Item Line #: Item Type:

Pay Note #: Pay Period:

Pay Note Entry:

Work Start Date: Work End Date:

Location/Description:

Culvert Crossing at Station 19+930
(1) Culvert pipe plot submitted on 7/31/09
(2) Culvert pipe plot approved by FHWA on 8/04/09 (see attached)
(3) Culvert pipe staked and excavated on 08/12/09
(4) Culvert pipe installed (Heat # 052637) and backfilled on 08/13/09

Remarks/Calculations:

Per approved pipe plot and from field measurement verification, the length of the culvert installed at STA 19+930 = 26.50 meters

Pay 26.50 meters

Support Documentation/References:

Pipe Plot STA 19+930, Pipe Certifications

Measured By:

TOTAL QUANTITY: 26.50 (meters)

Interim Measurement Final Measurement

By signature below, I hereby certify that the measurements and calculations shown above are correct to the best of my knowledge and that the quantity being measured is subject to direct payment for the identified item under contract.

Contractor Representative (Print):

Date:

Contractor Representative (Signature):

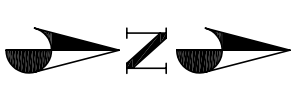
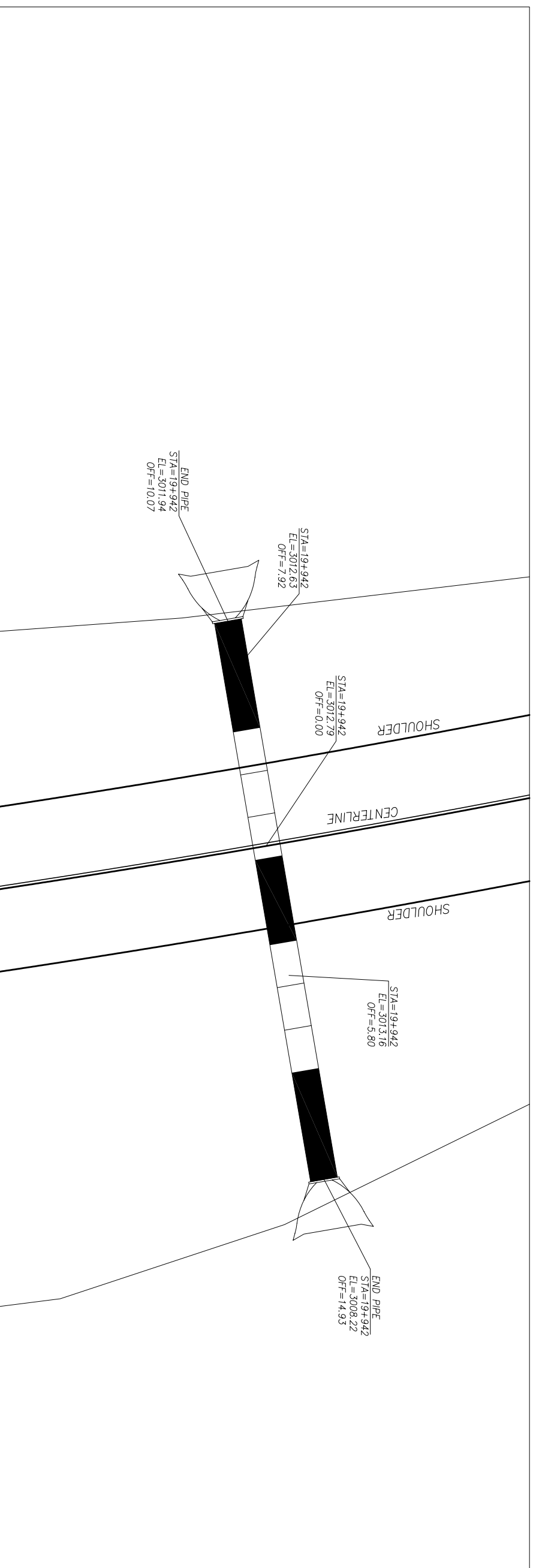
Approved by FHWA Representative (Print):

Date:

Approved by FHWA Representative (Signature):

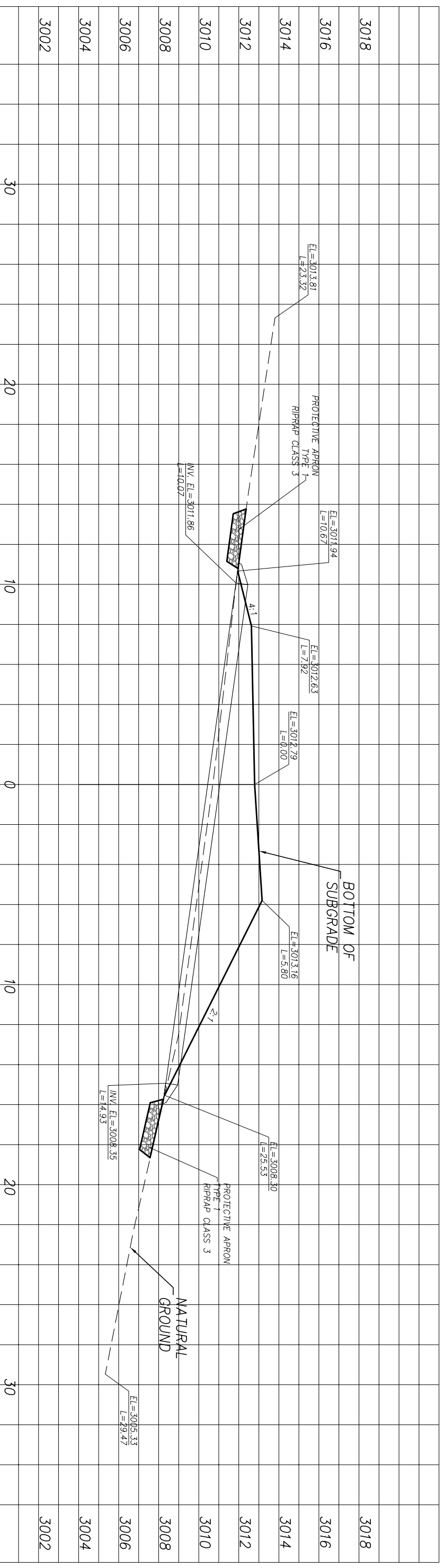
Checked by FHWA Representative (Signature):

Date:



SCALE=1:100
(594mm X 841mm)

- NOTES:
1. OFF= OFFSET FROM ROADWAY CENTERLINE TO SPECIFIC POINT ON PLAN VIEW.
 2. L= HORIZONTAL LENGTH FROM INTERSECTION OF ROADWAY CENTERLINE AND CULVERT PIPE TO SPECIFIC POINT ON PROFILE DRAWING.



CULVERT STAKING DATA

DESIGN STA.: 19+930	ACTUAL STA.: 19+942	DIAMETER: 600 MM	SKEW: NONE
PIPE HORIZ. LENGTH: 25.00 M	PIPE LENGTH: 26.54 M	PIPE TYPE: METAL	END SECTIONS: 2
INLET ELEV.: 3011.86	OUTLET ELEV.: 3008.35	DROP: 3.51 M	SLOPE: 14.04%
STAKED BY: PEPG ENGINEERING		DATE: 7-31-09	



PEPG ENGINEERING, L.L.C.
8805 S SANDY PARKWAY • SANDY, UT 84070
PH: (801) 562-2521 • FAX: (801) 562-2551

SEVENMILE-GOOSEBERRY ROAD PHASE II
UTAH FOREST HIGHWAY PROJECT P.F.H. 39-1(2)
SEVIER COUNTY--FISH LAKE NATIONAL FOREST
CULVERT CROSSING 19+930

** THIS IMAGE HAS BEEN ALTERED **



2245 Canyon Creek Rd.
Redding, CA 96001
530/243-1207 Phone
530/243-1932 Fax

Fabricator's Certificate of Compliance

TO: DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

Date: 6/16/2009
Contract No: 112-1(1)

This is to certify all materials supplied by us in this lot, as indicated by test in the flat galvanized coil stock, comply in all requests with specifications, including mechanical property requirements, for this contract. We further certify that all manufacturing processes for steel material furnished for incorporation into the work on this project, has occurred in the United States. All material listed below meets the requirements of Section 66 in the CALTRANS standard specifications.

HUGGER joints furnished on this contract are in full compliance to CALTRANS "Performance Requirements", when specified, for standard, positive, and down drain categories, and water-tightness.

Copies of certified mill test reports showing the mechanical analysis and weight of coating for each heat used to fabricate this lot of material are available in our office. The quantities of fabricated material in this lot are listed below or on an attached sheet.

All bituminous coated material shall conform to Section 66-1.03 in the CALTRANS standard specifications.

Qty.	Description of material	Bit Cid	Cid & Pvd	Paved	This certified material is fabricated from the heat numbers listed below.
296 lf	16ga 24" galv cmp (600 mm)				052637, 052643, 052643
20 ea	18ga 24" H-12 bands (600 mm)				
13 ea	24" end sections (600 mm)				
3 ea	12" end sections (300 mm)				

Plant Order No. 73-3390
Consignee: Johnson Ind.

Fabricator - CONTECH C.P.I.
Redding, CA
By: *Jeff Hallam*
Authorized Representative



U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
Central Federal Lands Highway Division
12300 W. Dakota Ave. Lakewood, Colorado 80228

Item Quantity Pay Note Sheet

Date:

Project Number: Project Name:

Account:

Pay Note Information:

Pay Item #: Item Description: Pay Unit:

Item Line #: Item Type:

Pay Note #: Pay Period:

Pay Note Entry:

Work Start Date: Work End Date:

Location/Description:

On 08/30/10: A continuous, Type-A, double-yellow, 4-inch permanent pavement marking line was painted per contract requirements from STATION 21+00 to 148+00

Remarks/Calculations:

Per FP-03 634.13, measure solid pavement lines from end to end of each continuous line.

STATION 21+00 to 148+00 = 12,700 LNFT (STA to STA). Measurement by walking the line from end to end with a measurement wheel = 12,716.10 LNFT.

(12,716.10 LNFT per line) X (2 lines) = 25,432.20 LNFT

Support Documentation/References:

Paint Certification (not shown in this book)

Measured By:

TOTAL QUANTITY: 25,432.20 (LNFT)

Interim Measurement Final Measurement

By signature below, I hereby certify that the measurements and calculations shown above are correct to the best of my knowledge and that the quantity being measured is subject to direct payment for the identified item under contract.

Contractor Representative (Print):

Date:

Contractor Representative (Signature):

Approved by FHWA Representative (Print):

Date:

Approved by FHWA Representative (Signature):

Checked by FHWA Representative (Signature):

Date:

TRANSMITTAL FORM FOR SUBMITTALS & CERTIFICATIONS

(attach additional sheets as necessary)

PROJECT NUMBER: CA PFH 112-1(1)

TRANSMITTAL NO: 1

PROJECT NAME: South Fork Smith River Road

DATE: 11/9/10

PAY ITEM NUMBER & DESCRIPTION: 63404-0400

DESCRIPTION OF INFORMATION SUBMITTED: MATERIAL SPECS; PAINT STRIPING

NUMBER OF COPIES FURNISHED: 1

TYPE OF SUBMITTAL:

New Submittal Resubmittal

VARIANCE OR SUBSTITUTION REQUESTED?

Yes No

APPLICABLE CONTRACT REFERENCES (LIST) AND CONTRACT COMPLIANCE (INDICATE):

PLAN SHEET(S)	PLAN COMPLIANCE?	Yes	No	Var/Sub	N/A
FP SUBSECTION(S) <u>718</u>	FP COMPLIANCE?	Yes	No	Var/Sub	N/A
SCR SUBSECTION(S) <u>718</u>	SCR COMPLIANCE?	Yes	No	Var/Sub	N/A
ACCEPTED DRAWINGS	DRWG COMPLIANCE?	Yes	No	Var/Sub	N/A
OTHER	OTHER COMPLIANCE?	Yes	No	Var/Sub	N/A

DESCRIBE ANY PROPOSED VARIATION OR SUBSTITUTION (include the reason for the requested change, a detailed comparison of the specified and proposed item, manufacturer's or other relevant supporting data, and any proposed cost savings to the Government. Attach additional pages as necessary. Note: the applicable specification compliance type listed above that relies on the variation or substitution should be marked "Var/Sub."):

MATERIAL SPECIFICATIONS ; FOR PAVEMENT MARKINGS

I certify that the above submitted item(s) have been reviewed in detail and are correct, are in the proper units (metric or english as required by the contract), and are in strict conformance with the contract drawings and specifications except as otherwise stated.

Robert E. Nixa ROBERT E. NIXA QCS FOR TIOEWATER 11/9/10
(Signature and printed name of knowledgeable person) (Title and Company Name) (Date)

REVIEW BY QUALITY CONTROL MANAGER (return unacceptable submittals to submitter):

RECOMMENDED ACTION ON VARIANCE/SUBSTITUTION REQUEST: Approve Reject Resubmit
RECOMMENDED ACTION ON OVERALL SUBMITTAL: Accept Accept Except as Noted Reject/Resubmit
 Accept Except as Noted/Resubmit Reject/Resubmit PN More Info Req'd on Var/Sub, Resubmit

Remarks:

I certify that I have reviewed the attached submittal or certification for apparent compliance with the contract requirements. Any deviations are identified above.

Signed by Robert E. Nixa ROBERT E. NIXA Date 11/9/10
(signature and printed name)

GOVERNMENT RESPONSE :

VARIANCE/SUBSTITUTION REQUEST: Approved Rejected Resubmit
OVERALL SUBMITTAL: Accepted Accepted Except as Noted Accepted Except as Noted/Resubmit Rejected/Resubmit More Info Req'd on Var/Sub, Resubmit

Remarks:

Signed by [Signature] PE Date 11/15/10
(signature and printed name and title)



pavement marking support documentation

Ennis Traffic Safety Solutions

CERTIFICATE OF COMPLIANCE

This is to certify that:

The following lots have been manufactured to meet all requirements of HPS-4 two component modified Urethane traffic marking system

Product	Lot No	MFG
HPS-4 White	Enter Batch # TE007W137	7-14-2010

To obtain the desired qualities, parts A and B must be mixed in a two- to-one ratio (two parts of component A (resin) with one part of component B (catalyst)).

I. Part A consists of the following composition:

<u>White System</u>		<u>Yellow System</u>		<u>Black System</u>	
<u>Component</u>		<u>Component</u>		<u>Component</u>	
Titanium Dioxide	21-27% ✓	Total Pigments	17-23% ✓	Total Pigments	20-30%
Modified Urethane Resin	73-79%	Modified Urethane Resin	77-83%	Modified Urethane Resin	70-80%

II. Part B (catalyst) has an amine value of 330 +/- 30 (ASTM D2074)

III. When Parts A and B are properly and thoroughly mixed (two Parts A to one Part B) the following properties will result:

<u>Property</u>	<u>Result</u>	<u>Test Method</u>
No Track Time	With beads: 2 minutes maximum	ASTM D 711 ✓
Hardness (Shore D)	> 70	ASTM D 2240 ✓
Abrasion Resistance	Less than 80 mg	ASTM D 4060 ✓
Adhesion	concrete failure	(ASTM D 4541) ✓
Tensile Strength	> 6000 psi	(ASTM D 638) ✓
Compressive Strength	> 12,000 psi	(ASTM D 695) ✓
Color:	Meets Federal Standard Number 595B)	ASTM D 1729 ✓

I certify that the above information is true and correct to the best of my knowledge.

JOHNNY LAMBERT
Ennis Traffic Safety Solutions
EPOXY LAB. Manager

Date 7-15-2010

Section 7: SQUARE FEET/SQUARE YARD Items

20303 Removal of Pavement, Asphalt	Page 96
20703 Earthwork Geotextile, Geogrid	Page 99
25801 Reinforced Concrete Retaining Wall	Page 103
30306 Pulverizing	Page 107
63504 Temporary Traffic Control, Construction Sign	Page 112

GENERAL NOTE:

The items shown here are examples only - all measurement, documentation, and payment will conform to the project contract requirements regardless of what is shown here. Included here are examples of some of the many documentation types that may be required. Often documentation such as certifications and qualifications may be submitted and accepted once and then referenced accordingly instead of attaching additional copies for each pay note or payment period. Many documentation items are required prior to production, delivery, or placement; required documentation should be provided at the appropriate time and not necessarily at time of payment.

NOTE ON SQUARE FEET/ SQUARE YARD ITEMS:

Area quantities shown in the Plans are estimates; only actually ordered and performed quantities are paid. Please refer to the FP, the Special Contract Requirements, and plans of your project for detailed instructions prior to submitting any pay notes. Typically, area items are measured on a plane parallel to the surface being measured. Items paid by area are sometimes irregularly shaped items. It is generally acceptable to simplify irregularly shaped items by breaking down areas into shapes with easily calculated areas such as squares, rectangles, circles, semi circles, trapezoids, triangles, etc. When breaking down areas into simpler shapes, the process should be mutually agreed upon by the Contractor and a FHWA representative. It is also acceptable to measure the area of items from an approved survey method. When submitting for payment on items paid by area, it is required to show on the paynote when the work was performed, where the work was performed (station ranges, offsets, sketches), measurement and calculations with area formulas clearly noted, who measured the work, survey reports if performed, and necessary conversion calculations (i.e. square yard to square feet).



U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
Central Federal Lands Highway Division
12300 W. Dakota Ave. Lakewood, Colorado 80228

Item Quantity Pay Note Sheet

Date: 10/29/10

Project Number: CA PRA SEKI 10(8) Project Name: Generals Highway

Account: OPTION X

Pay Note Information:

Pay Item #: 20303-1600 Item Description: Removal of Pavement Pay Unit: SQYD

Item Line #: N/A (for EEBACS only) Item Type: N/A (for EEBACS only)

Pay Note #: 52 Pay Period: 2

Pay Note Entry:

Work Start Date: 10/22/10 Work End Date: 10/29/10

Location/Description:

- (1) Station 663+00 to 660+75 on 10/22/10 = 688.89 SQYD*
 - (2) Station 660+75 to 657+75 on 10/23/10 = 897.06 SQYD*
 - (3) Station 657+75 to 655+50 on 10/24/10 = 625.00 SQYD*
 - (4) Station 655+50 to 653+00 on 10/25/10 = 643.33 SQYD*
 - (5) Station 653+00 to 650+75 on 10/26/10 = 562.22 SQYD*
 - (6) Station 650+75 to 647+25 on 10/27/10 = 995.83 SQYD*
 - (7) Station 647+25 to 645+66 on 10/28/10 = 427.28 SQYD*
 - (8) Station 645+66 to 644+00 on 10/29/10 = 481.94 SQYD*
- *See removal of pavement quantity spreadsheet.

Remarks/Calculations:

Per FP-03 203.08, payment will be full compensation for the work prescribed.

From Location/Description:
 Total quantity (SQYD) = 688.89 + 897.06 + 625.00 + 643.33 + 562.22 + 995.83 + 427.28 + 481.94 = 5321.56 SQYD

Round the total to the zero decimal place... Pay 5322 SQYD

Support Documentation/References:

Removal of pavement quantity spreadsheet

Measured By: Joe the Inspector & Bob the Contractor

TOTAL QUANTITY: 5322 (SQYD)

Interim Measurement Final Measurement

By signature below, I hereby certify that the measurements and calculations shown above are correct to the best of my knowledge and that the quantity being measured is subject to direct payment for the identified item under contract.

Contractor Representative (Print): Bob the Contractor

Date: 10/29/10

Contractor Representative (Signature):

Approved by FHWA Representative (Print): Joe the Inspector

Date: 10/29/10

Approved by FHWA Representative (Signature):

Checked by FHWA Representative (Signature): Jane the Project Engineer

Date: 11/5/10

CA PRA SEKI 10 (8) GENERALS HIGHWAY
Option X Item 20303-1600 Removal of Pavement (SQYD)

PAGE 1

MEASUREMENTS		CALCULATIONS							
STA	Measured Roadway Width (feet)	STA 1	STA 2	Length (feet)	Average Roadway Width (feet)	Area (SQFT)	AREA (SQYD)	Date Completed	
634+00	26.10	634+00	635+00	100.00	25.05	2505.00	278.33	NOT YET COMPLETED	
635+00	24.00	635+00	635+75	75.00	22.50	1687.50	187.50		
635+75	21.00	635+75	636+75	100.00	21.00	2100.00	233.33		
636+75	21.00	636+75	637+25	50.00	22.00	1100.00	122.22		
637+25	23.00	637+25	637+75	50.00	23.50	1175.00	130.56		
637+75	24.00	637+75	638+25	50.00	25.00	1250.00	138.89		
638+25	26.00	638+25	638+81	56.00	29.00	1624.00	180.44		
638+81	32.00	638+81	639+00	19.00	32.50	617.50	68.61		
639+00	33.00	639+00	639+17	17.00	34.00	578.00	64.22		
639+17	35.00	639+17	639+50	33.00	35.50	1171.50	130.17		
639+50	36.00	639+50	639+91	41.00	31.00	1271.00	141.22		
639+91	26.00	639+91	640+25	34.00	24.50	833.00	92.56		
640+25	23.00	640+25	640+50	25.00	23.00	575.00	63.89		
640+50	23.00	640+50	641+50	100.00	23.00	2300.00	255.56		
641+50	23.00	641+50	642+00	50.00	22.50	1125.00	125.00		
642+00	22.00	642+00	642+75	75.00	22.00	1650.00	183.33		
642+75	22.00	642+75	643+25	50.00	23.00	1150.00	127.78		
643+25	24.00	643+25	643+69	44.00	24.00	1056.00	117.33		
643+69	24.00	643+69	644+00	31.00	24.50	759.50	84.39		
644+00	25.00	644+00	644+50	50.00	26.50	1325.00	147.22		10/29/2010
644+50	28.00	644+50	645+25	75.00	26.50	1987.50	220.83		481.94
645+25	25.00	645+25	645+66	41.00	25.00	1025.00	113.89		
645+66	25.00	645+66	646+00	34.00	24.50	833.00	92.56		10/28/2010
646+00	24.00	646+00	646+50	50.00	24.00	1200.00	133.33		427.28
646+50	24.00	646+50	647+00	50.00	24.00	1200.00	133.33		
647+00	24.00	647+00	647+25	25.00	24.50	612.50	68.06		995.83
647+25	25.00	647+25	647+75	50.00	26.00	1300.00	144.44		
647+75	27.00	647+75	648+00	25.00	28.00	700.00	77.78		
648+00	29.00	648+00	648+25	25.00	28.50	712.50	79.17		
648+25	28.00	648+25	648+75	50.00	28.00	1400.00	155.56		
648+75	28.00	648+75	649+25	50.00	28.00	1400.00	155.56		
649+25	28.00	649+25	649+75	50.00	25.00	1250.00	138.89	562.22	
649+75	22.00	649+75	650+75	100.00	22.00	2200.00	244.44		
650+75	22.00	650+75	651+18	43.00	22.00	946.00	105.11	10/26/2010	
651+18	22.00	651+18	651+50	32.00	27.00	864.00	96.00	562.22	
651+50	32.00	651+50	651+75	25.00	31.50	787.50	87.50		
651+75	31.00	651+75	652+25	50.00	29.00	1450.00	161.11		
652+25	27.00	652+25	653+00	75.00	13.50	1012.50	112.50		

CA PRA SEKI 10 (8) GENERALS HIGHWAY
Option X Item 20303-1600 Removal of Pavement (SQYD)

PAGE 2

MEASUREMENTS		CALCULATIONS						
STA	Measured Roadway Width (feet)	STA 1	STA 2	Length (feet)	Average Roadway Width (feet)	Area (SQFT)	AREA (SQYD)	Date Completed
653+00	22.00	653+00	653+50	50.00	22.00	1100.00	122.22	10/25/2010
653+50	22.00	653+50	654+25	75.00	22.00	1650.00	183.33	643.33
654+25	22.00	654+25	654+80	55.00	23.00	1265.00	140.56	
654+80	24.00	654+80	655+25	45.00	25.00	1125.00	125.00	
655+25	26.00	655+25	655+50	25.00	26.00	650.00	72.22	
655+50	26.00	655+50	656+00	50.00	26.00	1300.00	144.44	
656+00	26.00	656+00	656+50	50.00	26.50	1325.00	147.22	625.00
656+50	27.00	656+50	657+00	50.00	25.50	1275.00	141.67	
657+00	24.00	657+00	657+25	25.00	23.00	575.00	63.89	
657+25	22.00	657+25	657+75	50.00	23.00	1150.00	127.78	
657+75	24.00	657+75	658+75	100.00	25.50	2550.00	283.33	
658+75	27.00	658+75	659+25	50.00	27.00	1350.00	150.00	897.06
659+25	27.00	659+25	660+03	78.00	27.50	2145.00	238.33	
660+03	28.00	660+03	660+50	47.00	28.00	1316.00	146.22	
660+50	28.00	660+50	660+75	25.00	28.50	712.50	79.17	
660+75	29.00	660+75	661+25	50.00	28.00	1400.00	155.56	
661+25	27.00	661+25	661+96	71.00	27.00	1917.00	213.00	688.89
661+96	27.00	661+96	662+25	29.00	27.00	783.00	87.00	
662+25	27.00	662+25	662+50	25.00	27.00	675.00	75.00	
662+50	27.00	662+50	663+00	50.00	28.50	1425.00	158.33	
663+00	30.00							

TOTAL (this estimate) = 5321.56



U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
Central Federal Lands Highway Division
12300 W. Dakota Ave. Lakewood, Colorado 80228

Item Quantity Pay Note Sheet

Date:

Project Number: Project Name:

Account:

Pay Note Information:

Pay Item #: Item Description: Pay Unit:

Item Line #: Item Type:

Pay Note #: Pay Period:

Pay Note Entry:

Work Start Date: Work End Date:

Location/Description:

On 10/26/2009: Approved biaxial geogrid was placed at the following locations:
Hole 1: 33+00 to 33+14 = 16.33 SQYD*
Hole 2: 33+60 to 33+75 = 9.17 SQYD*
Hole 3: 34+20 to 34+36 = 23.27 SQYD*

*See attached Geogrid sketch/calculation sheet

Remarks/Calculations:

16.33 SQYD + 9.17 SQYD + 23.27 SQYD = 48.77 SQYD

PAY 48.77 SQYD TOTAL

Support Documentation/References:

Geogrid sketch/calculation sheet and biaxial geogrid certification.

Measured By:

TOTAL QUANTITY: 48.77 (SQYD)

Interim Measurement Final Measurement

By signature below, I hereby certify that the measurements and calculations shown above are correct to the best of my knowledge and that the quantity being measured is subject to direct payment for the identified item under contract.

Contractor Representative (Print):

Date:

Contractor Representative (Signature):

Approved by FHWA Representative (Print):

Date:

Approved by FHWA Representative (Signature):

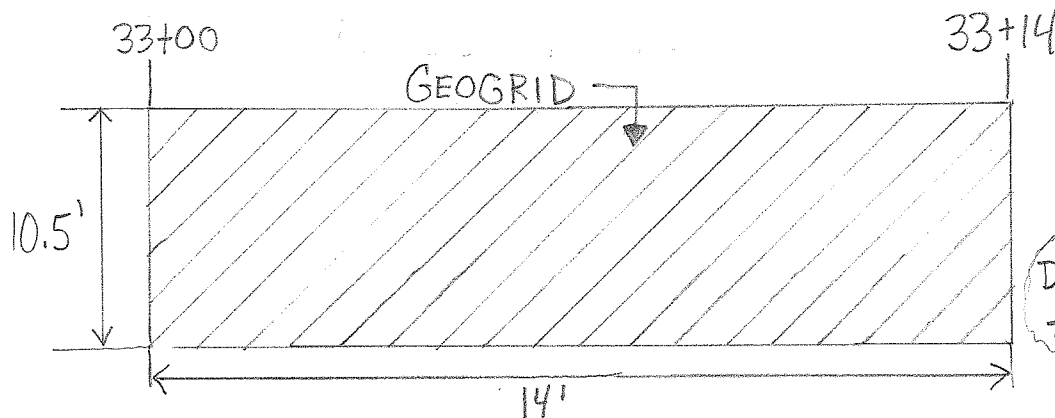
Checked by FHWA Representative (Signature):

Date:

MADE BY...SS... DATE 10/26/09
CHECKED BY...DJ... DATE 10/26/09
CALCULATIONS FOR.....

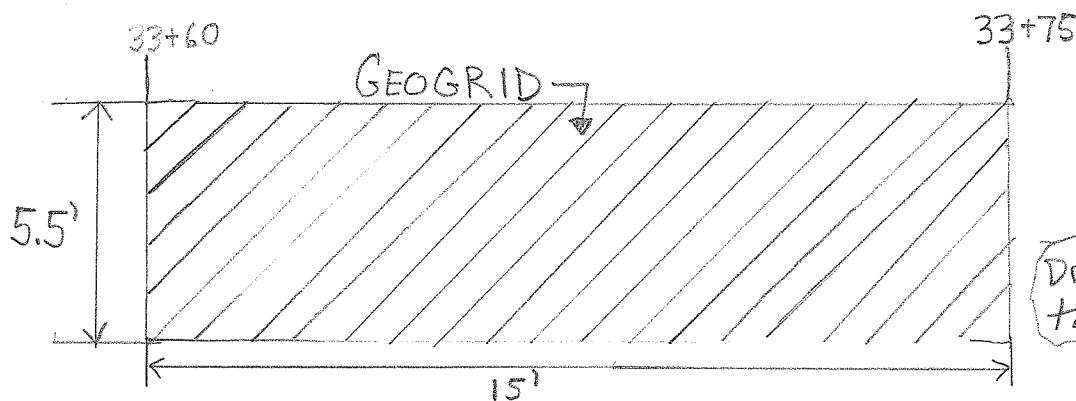
20703-0000, GEOGRID

Hole # 1: 10.5' W x 14' L x 1.17' D 10/26/09



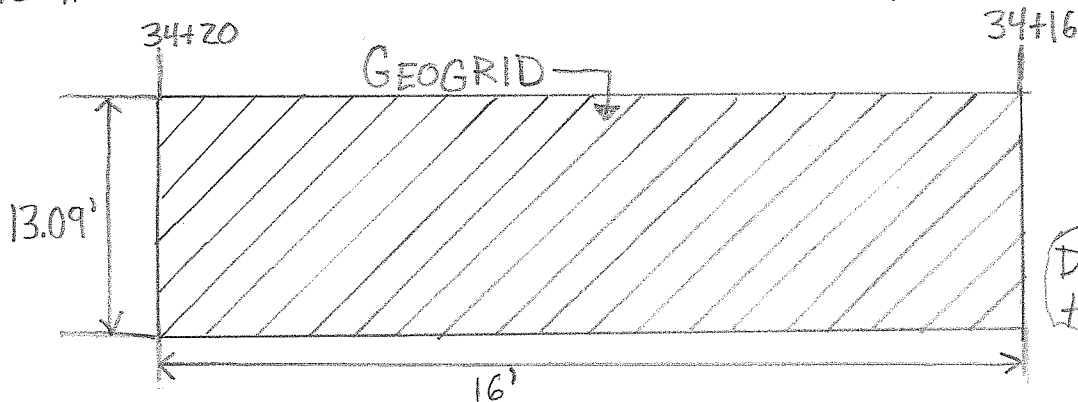
Area of Geogrid = $14' \times 10.5' = 147 \text{ SQFT} \div 9 = \underline{16.33 \text{ SQYD}} ←$

Hole #2: 5.5' W x 15' L x 1.13' D 10/26/09



Area of Geogrid = $15' \times 5.5' = 82.5 \text{ SQFT} \div 9 = \underline{9.17 \text{ SQYD}} ←$

Hole #3: 13.09' W x 16' L x 1.15' D 10/26/09



Area of Geogrid = $16' \times 13.09' = 209.44 \text{ SQFT} \div 9 = \underline{23.27 \text{ SQYD}} ←$

June 29, 2011

Hanes Components
Denver, Co

This letter is to certify that B 100 Geogrids as manufactured by Synteen Technical Fabrics for Hanes Geo meets or exceeds the standards for Geogrids as set by FHWA, NCMA and other industry groups.

All Geogrids use 100% virgin resin with NO regrind material. The polyester yarns have a minimum molecular weight of 25,000 g/mol and a CEG of less than 30.

B 100 is composed of high molecular weight, high-tenacity multifilament polyester yarns that are woven into a stable network placed under tension. The yarns used by STF meet the requirements for molecular weight and CEG's as established by US Department of Transportation. The high strength polyester yarns are coated with a PVC material. SF. Series Geogrids are inert to biological degradation and are resistant to naturally encountered chemicals, alkalis and acids. SF. Series Geogrids are typically used for soil reinforcement applications such as retaining walls, steep slopes, embankments, sub-grade stabilization, and embankments over soft soils and waste containment applications.

TENSILE PROPERTIES	TEST METHOD	MARV VALUES LBS/FT
Ultimate Strength MD XMD	ASTM D 6637	2388 3870
LTDS	FHWA	1341 3350

RF Creep -1.54 RF Durability - 1.10 RF Installation Damage 1.05 Type 3 Synteen Technical Fabrics has tested our geogrids in accordance with FHWA, NCMA and Geosynthetic Research 10,000 hour creep testing, GRI GG2 junction testing, Coefficient of interaction and geogrid pull out testing in accordance with GRI GG5 and installation damages testing WSDOT Method 925. In addition, STF has performed NCMA connection testing with several segmental wall systems. Reduction factors listed above are all based on specific testing. All VG Series geogrids are delivered in UV protected wrap. Labels are attached to the grid rolls indicating geogrid style, roll number. The roll number is recorded in our QC lab. All physical test data is filed according to roll numbers.

Don D Show
Vice President of Sales & Marketing

geogrid support documentation



Synteen Technical Fabrics, Inc.



71403(a) * Need long term design strength using test method GRI 664

SYNTEEN SF12 BIAXIAL GEOGRID
BASE COURSE REINFORCEMENT AND SUBGRADE IMPROVEMENT

SF12 is composed of high molecular weight, high tenacity multifilament polyester yarns, woven into a stable network placed under tension. The high strength polyester yarns are PVC coated and are inert to biological degradation and are resistant to naturally encountered chemicals, alkalis and acids.

REINFORCEMENT PROPERTIES		TEST METHOD	MARV VALUES	
			Lbs/ft	kN/m
Ultimate Strength	MD	ASTM 6637	2,388	34.9
	XMD		5,268	76.8
Initial Modulus	MD	ASTM 6637	178,000	2,598
	XMD		235,000	3,432
Tensile Strength at 2% Strain	MD	ASTM 6637	526	7.7
	XMD		797	11.6
Tensile Strength at 5% Strain	MD	ASTM 6637	1,042	15.2
	XMD		1,367	19.9
True in place strength after site damage testing based on TRI method of "installation" damage testing with poorly graded gravel (GP) and well groomed gravel (SW).				
True Tensile Strength at 2% Strain	MD (GP)	ASTM 6637 & ASTM 5818	438	6.3
	MD (SW)		496	7.2
True Tensile Strength at 2% Strain	XMD (GP)	ASTM 6637 & ASTM 5818	664	9.7
	XMD (SW)		752	11.0
True Tensile Strength at 5% Strain	MD (GP)	ASTM 6637 & ASTM 5818	868	12.6
	MD (SW)		983	14.3
True Tensile Strength at 5% Strain	XMD (GP)	ASTM 6637 & ASTM 5818	940	13.7
	XMD (SW)		1,065	15.5
Junction Strength (lb./junction)	MD	GRI-GG2	59.4	0.87
	XMD		64.8	0.95
FHWA Sum of Junctions - Strength (81 total junctions)	MD	GRI-GG2	4,851	70.8
	XMD		5,249	76.6
FHWA Sum of Junctions - Efficiency	MD	GRI-GG2	203%	
	XMD		100%	
Coefficient of Pullout Interaction		ASTM 6706 Sandy Gravel Sand	$C_i = 1.0$	
			$C_i = 1.0$	
Aperture Size *	MD	Measured	1.0	25
	XMD		1.0	25
Roll Dimensions		Measured	200 square yards per roll	
			250 square yards per roll	
			283 square yards per roll	

Synteen can produce custom widths, apertures and master roll lengths.

PLEASE NOTE: Flexural Stiffness based on ASTM D 5732 was withdrawn by ASTM in 2008, and is no longer recognized by ASTM D-35 as an acceptable geosynthetic test method.

Synteen Technical Fabrics, Inc.
 1950 West Meeting Street . Lancaster, SC 29720
 800.796.8336

* Attest certification by having a person having legal authority to bind the manufacturer. (714031b)

(See Table 714-7) show assumed reduction factors



U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
Central Federal Lands Highway Division
12300 W. Dakota Ave. Lakewood, Colorado 80228

Item Quantity Pay Note Sheet

Date:

Project Number: Project Name:

Account:

Pay Note Information:

Pay Item #: Item Description: Pay Unit:

Item Line #: Item Type:

Pay Note #: Pay Period:

Pay Note Entry:

Work Start Date: Work End Date:

Location/Description:

10/10/2010: Excavation for Footing (F-3), Excavation for Footing (F-7)
10/11/2010: Excavation for Footing (F-12)
10/20/2010,10/21/2010: Footing Concrete Pour, 55201-L02-0007, 55201-L02-0008 (F-12)
10/26/2010: Footing Concrete Pour, 55201-L02-0010 (F-7)
10/28/2010: Footing Concrete Pour, 55201-L02-0012 (F-3)

Remarks/Calculations:

Per agreement with FHWA CO and Contractor Owner, the following breakdown of work for all retaining wall work is as follows:
28% excavation, 30% footing (concrete), 30% stem (concrete) and 12% backfill.

Per approved wall profile: (F-3) 77.29 SQFT + (F-7) 82.88 SQFT + (F-12) 86.05 SQFT = 246.22 SQFT
28% excavation + 30% footing (concrete) = 58%
246.22 SQFT X 58% = 142.81 SQFT

Support Documentation/References:

(1) Approved Wall 3B Profile (2) 25801-0300 Work Breakdown Spreadsheet (3) Wall 3B Quantity Spreadsheet
NOTE: This item has a separate pay factor adjustment for 552 concrete (see appendix for an example)

Measured By:

TOTAL QUANTITY: 142.81 (SQFT)

Interim Measurement Final Measurement

By signature below, I hereby certify that the measurements and calculations shown above are correct to the best of my knowledge and that the quantity being measured is subject to direct payment for the identified item under contract.

Contractor Representative (Print):

Date:

Contractor Representative (Signature):

Approved by FHWA Representative (Print):

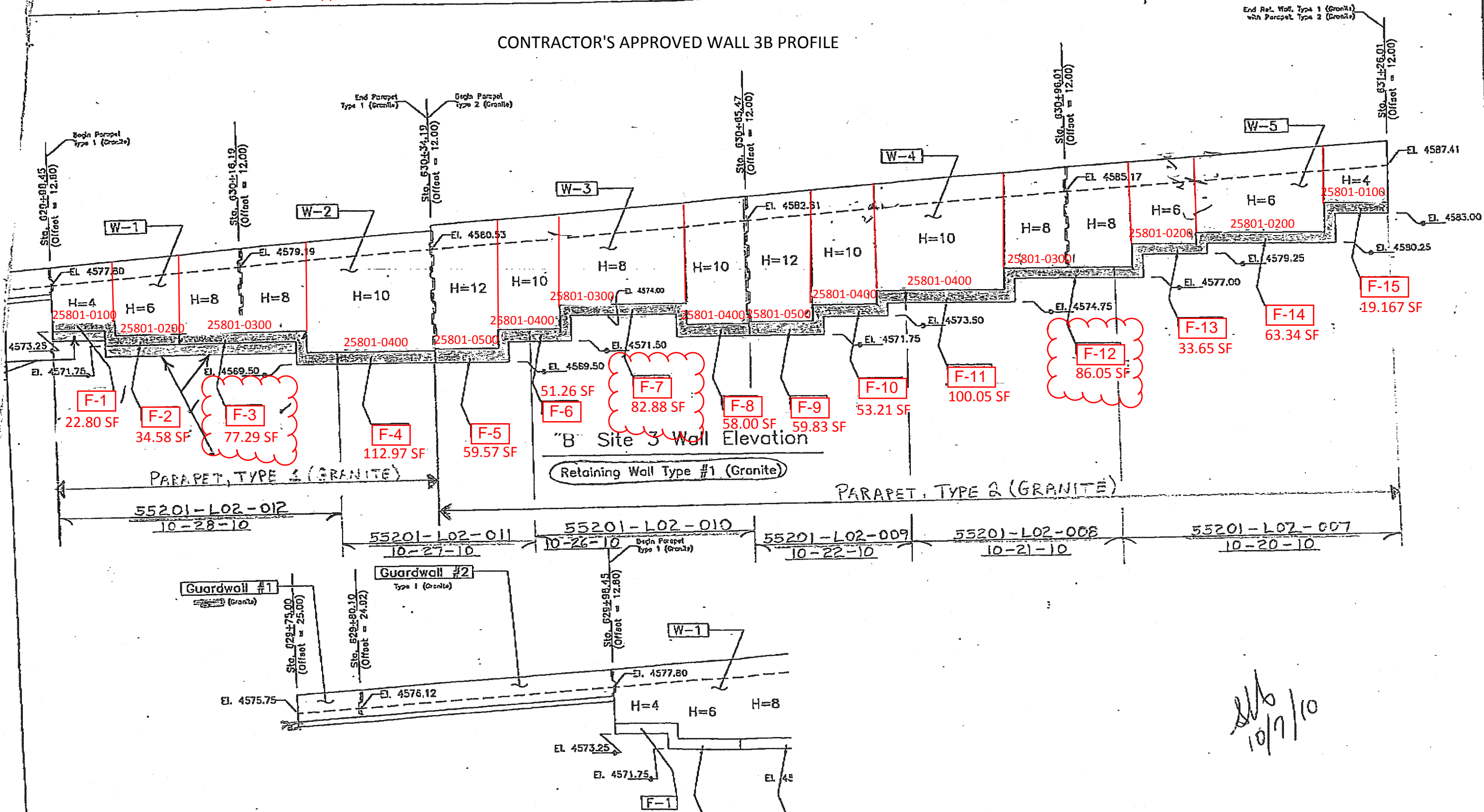
Date:

Approved by FHWA Representative (Signature):

Checked by FHWA Representative (Signature):

Date:

CONTRACTOR'S APPROVED WALL 3B PROFILE



02-27-12:01:14PM

2 / 2

Handwritten: 10/7/10

THE FULL INTENT & PURPOSE OF THIS PLACING DRAWING IS THE PLACING & FABRICATION OF REINFORCING STEEL BARS ONLY. IT IS NOT TO BE USED AS A MEANS OF COMMUNICATION BETWEEN THE ARCHITECT, ENGINEER, CONTRACTOR OR ANY OTHER SUB-TRADE. / REINFORCING STEEL PLACING DRAWINGS ONLY. USE IN CONJUNCTION WITH CONTRACT DRAWINGS & SPECIFICATIONS. ELEVATIONS & DIMENSIONS SHOWN ON THIS DRAWING ARE FOR DETAILING PURPOSES ONLY & SHOULD NOT BE USED FOR CONSTRUCTION UNLESS VERIFIED BY ENGINEER OR CONTRACTOR.

NO.	REVISIONS	DATE	BY
3			
2			
1			
0	FOR APPROVAL		



2990 E. ANADALE
FRESNO, CA 93725
TEL: (559) 487-2000
FAX: (559) 487-2010

LOCATION	Sequoia/Kings Canyon Nat'l Park	PROJECT	PRA SEKI 10(8) Generals Highway Walls	PROJECT NO.	NO100125	LOT NO.	
ARCHITECT		ENGINEER	U.S. Dept of Transportation	TITLE OF DRAWING	Schedule "B" Site 3 Wall Elevation - Site 3 Wall & Details	DRAWING NO.	BS3W-L1
CUSTOMER	Frontier Contracting, Inc.	DRAWN BY	John Wale				

8' granite reinforced concrete retaining wall support documentation

CA PRA SEKI 10(8)

Generals Highway

Sequoia/ King's Canyon National Park

Allen Engineering Contractor, Inc.

25801-0300B Reinforced Concrete Retaining Wall 8' Type 1 Granite

Wall	Footing	Excavation (28)	Footing (30)	Stem (30)	Backfill (12)
##	F-##				
	F-##				
	F-##				
	F-##				
	F-##				
##	F-##				
	F-##				
	F-##				
	F-##				
3B	F-3	10/10/2010	10/28/2010	11/29/2010	12/30/2010
	F-7	10/10/2010	10/26/2010	11/27/2010	12/28/2010
	F-12	10/11/2010	10/21/2010	11/22/2010	12/23/2010

8' reinforced concrete retaining wall support documentation

Wall 3B -Sta. 629+75 to Sta. 631+26.01

Wall Section	Mainline Station to	Mainline Station to	Baseline Sta. to	Baseline Sta	Granite-Guardwall	Granite-Guardwall, Type 1 (o.f. formlined)	Granite - Parapet, Type 1 (o.f. formlined)	Granite-Parapet, Type 2 (all faces formlined)	Granite - Wall Height (Type 1) 4 ft	Granite - Wall Height (Type 1) 6 ft	Granite - Wall Height (Type 1) 8 ft	Granite -Wall Height (Type 1) 10 ft	Granite - Wall Height (Type 1) 12 ft	Granite - Wall Height (Type 1) 14 ft	Granite -Wall Height (Type 1) 16 ft	Granite - Wall Height (Type 1) 18 ft	
					Pay per ft	Pay per ft	Pay per ft	Pay per ft	Pay per SQFT								
GW3	629+75.00	629+98.45	00+00.00	00+06.00	6												
GW3			00+06.00	00+30.00		24											
Wall 3	629+98.45	630+16.19	00+30.00	00+36.00			6.00		22.800								
Wall 3			00+36.00	00+42.00			6.00			34.577							
Wall 3			00+42.00	00+48.00			6.00										
Wall 3	630+16.19	630+34.19	00+48.00	00+54.00			6.00					37.284					
Wall 3			00+54.00	00+66.00			12.00					40.007					
Wall 3	630+34.19	630+65.47	00+66.00	00+72.00				6.00					112.971				
Wall 3			00+72.00	00+78.00				6.00					59.572				
Wall 3			00+78.00	00+90.00				12.00					51.258				
Wall 3			00+90.00	00+96.00				6.00					82.877				
Wall 3	630+65.47	630+96.01	00+96.00	01+02.00				6.00					58.001				
Wall 3			01+02.00	01+08.00				6.00					59.834				
Wall 3			01+08.00	01+20.00				12.00					53.214				
Wall 3			01+20.00	01+26.00				6.00					100.052				
Wall 3	630+96.01	631+26.01	01+26.00	01+32.00				6.00					41.670				
Wall 3			01+32.00	01+38.00				6.00		33.646			44.384				
Wall 3			01+38.00	01+50.00				12.00		63.343							
Wall 3			01+50.00	01+56.00				6.00	19.167								
Total Area for Retaining Wall									41.967	131.566	246.222	375.496	119.406	0.000	0.000	0.000	
Total Length for Guardwall					6.000	24.000											
Total Length for Parapet							36.000	90.000									
Total Length of Site 3 =						42											
Wall Unit Price					\$1,800	\$1,400	\$1,100	\$500	\$250	\$260	\$270	\$280	\$290	\$300	\$340	\$360	
Wall Costs					\$10,800	\$33,600	\$39,600	\$45,000	\$10,492	\$34,207	\$66,480	\$105,139	\$34,628	\$0	\$0	\$0	
Guardwall					6.00	24.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Wall 3					0.00	0.00	36.00	90.00	41.97	131.57	246.22	375.50	119.41	0.00	0.00	0.00	
															Total Costs =		\$379,945



U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
Central Federal Lands Highway Division
12300 W. Dakota Ave. Lakewood, Colorado 80228

Item Quantity Pay Note Sheet

Date: 9/28/09

Project Number: ND PRA THRO 10(3)

Project Name: North Unit Scenic Drive

Account: Schedule A

Pay Note Information:

Pay Item #: 30306-3500

Item Description: Pulverizing, 7-inch depth

Pay Unit: SQYD

Item Line #: N/A (for EEBACS only)

Item Type: N/A (for EEBACS only)

Pay Note #: 312

Pay Period: 5

Pay Note Entry:

Work Start Date: 9/28/09

Work End Date: 9/29/09

Location/Description:

- | | | | |
|--|---|--------------|---------|
| (1) Pulverize station 232+00 to 249+00 | = | 6,284 SQYD* | 9/28/09 |
| (2) Pulverize station 43+00 to 81+36 | = | 13,069 SQYD* | 9/28/09 |
| (3) Pulverize station 10+00 to 43+00 | = | 6,039 SQYD* | 9/29/09 |
| (4) Pulverize Cannon Ball Parking Area | = | 1,505 SQYD* | 9/29/09 |

* See attached pulverization sketches and calculations

Remarks/Calculations:

Per FP-03 303.11, payment will be full compensation for the work prescribed.

From Location/Description:

Total quantity (SQYD) = 6,284 + 13,069 + 6,039 + 1,505 = 26,897 SQYD

PAY 26,897 SQYD

Support Documentation/References:

(1) Pulverization sketches and calculations.

Note: Pulverization grading analysis and Compaction results examples are not shown, but are required prior to payment

Measured By: Joe the Inspector & Bob the Contractor

TOTAL QUANTITY:**26,897 (SQYD)** Interim Measurement Final Measurement

By signature below, I hereby certify that the measurements and calculations shown above are correct to the best of my knowledge and that the quantity being measured is subject to direct payment for the identified item under contract.

Contractor Representative (Print): Bob the Contractor

Date: 9/29/09

Contractor Representative (Signature):

Approved by FHWA Representative (Print): Joe the Inspector

Date: 9/29/09

Approved by FHWA Representative (Signature):

Checked by FHWA Representative (Signature): Jane the Engineer

Date: 10/5/09

pulverizing support documentation

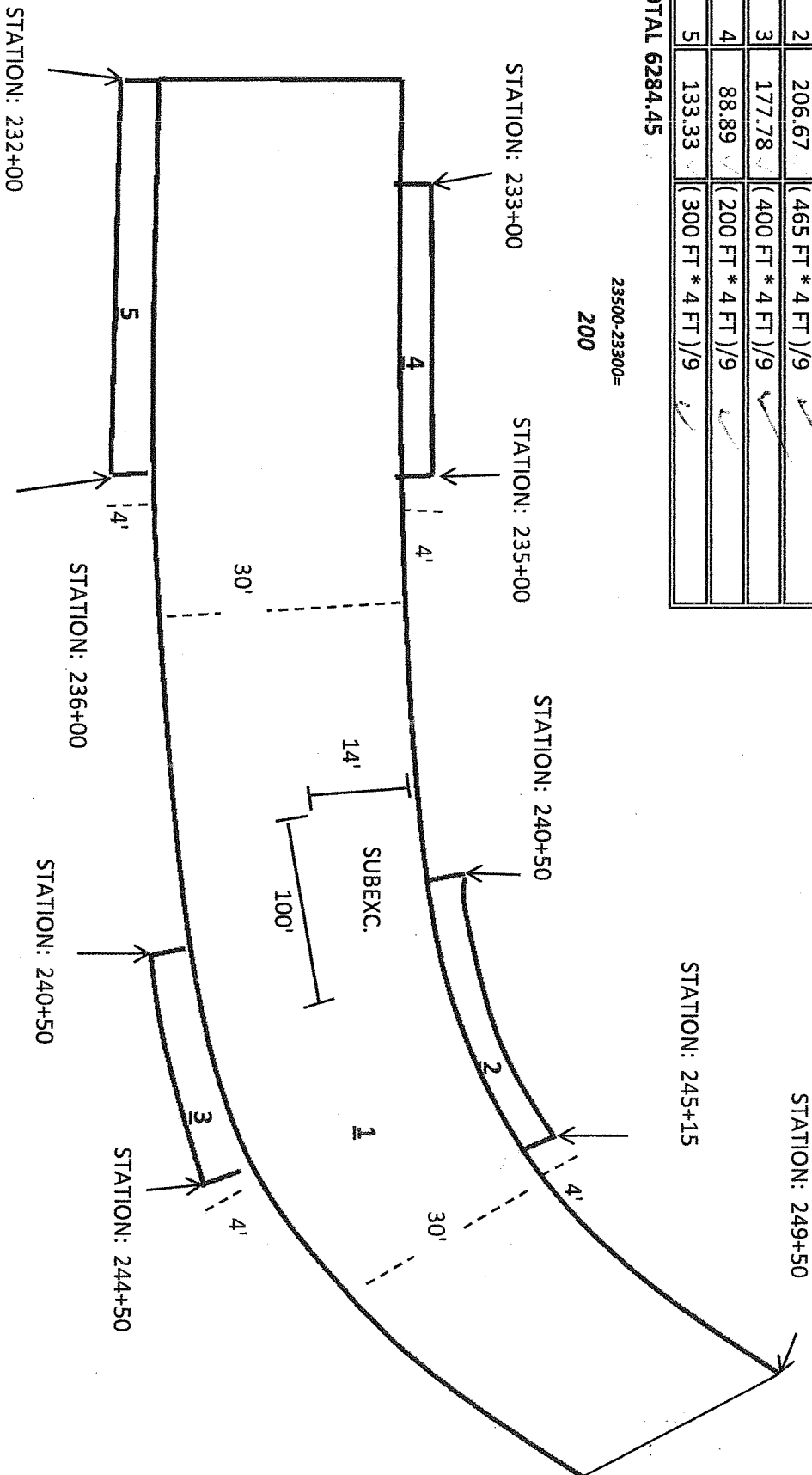
30306-3500 PULVERIZING 7-INCH DEPTH @ STATION 249+50 TO 233+00

AREA	SQYD	FORMULA
1	5677.78	$(1750 \text{ FT} * 30 \text{ FT} - 14 \text{ FT} * 100 \text{ FT}) / 9$ ✓
2	206.67	$(465 \text{ FT} * 4 \text{ FT}) / 9$ ✓
3	177.78	$(400 \text{ FT} * 4 \text{ FT}) / 9$ ✓
4	88.89	$(200 \text{ FT} * 4 \text{ FT}) / 9$ ✓
5	133.33	$(300 \text{ FT} * 4 \text{ FT}) / 9$ ✓

TOTAL 6284.45

23500-23300=

200



23500-23200=

300

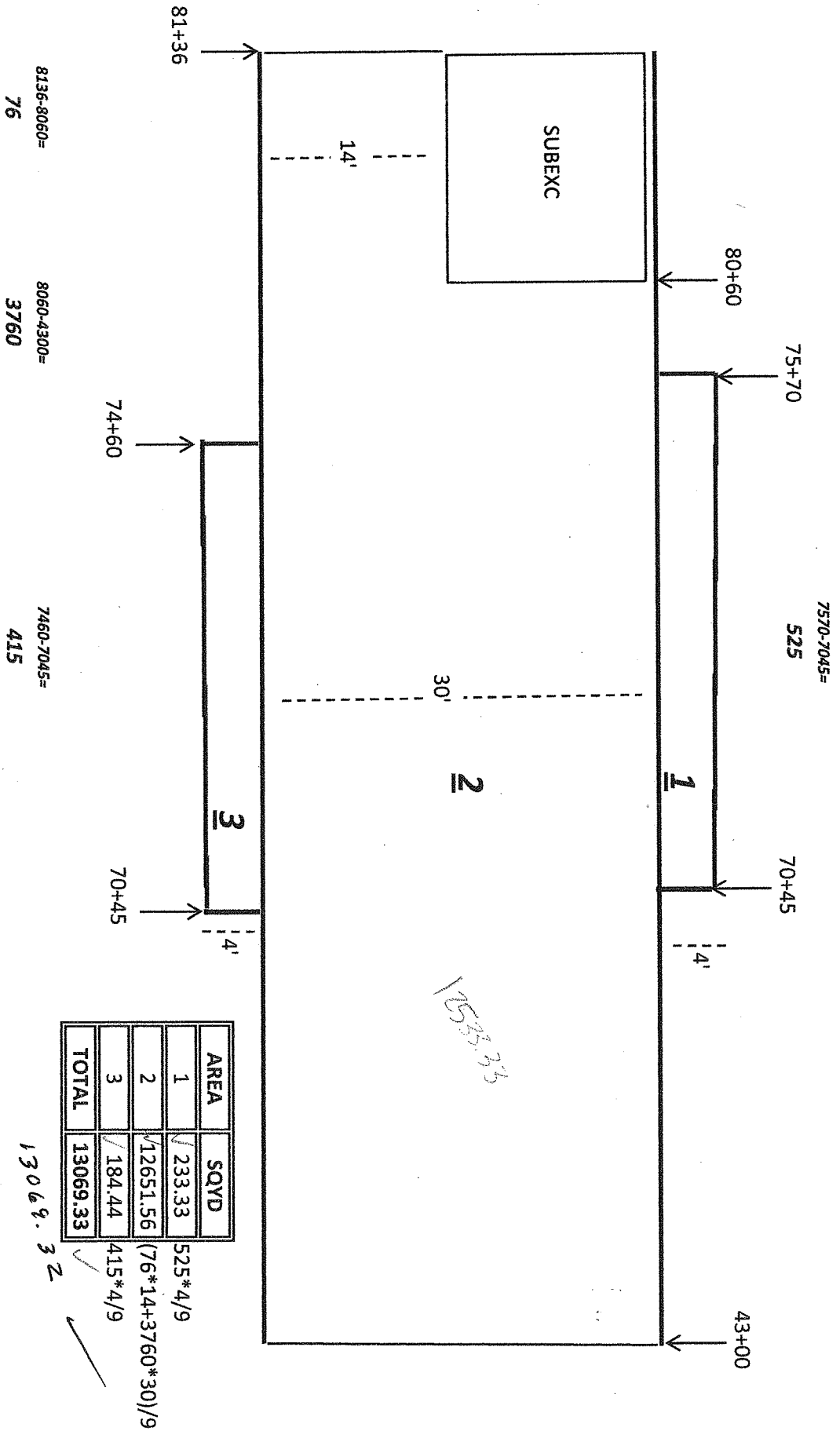
24950-23200=

1750

9/10/99
18

pulverizing support documentation

30306-3500, PULVERIZING, 7 INCH DEPTH, STATIONS 81+36 TO 43+00



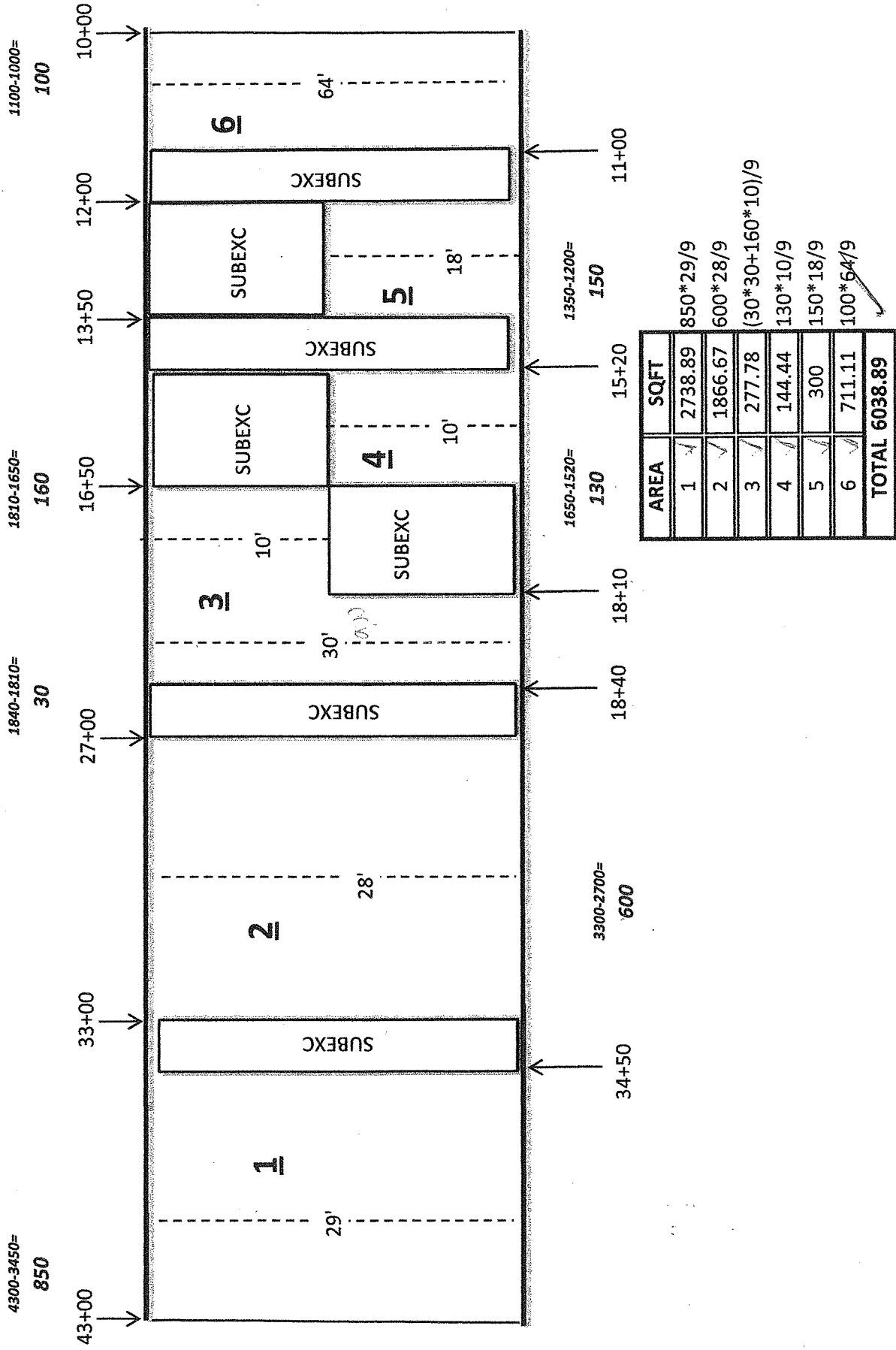
AREA	SOYD
1	233.33
2	12651.56
3	184.44
TOTAL	13069.33

$525 * 4 / 9$
 $(76 * 14 + 3760 * 30) / 9$
 $415 * 4 / 9$
 13069.33

8136-8060= 76
 8060-4300= 3760
 7460-7045= 415

30306-3500 PULVERIZING 7-INCH DEPTH @ STATIONS 43+00 TO 10+00

pulverizing support documentation



4300-3450=
850

1840-1810=
30

1810-1650=
160

1100-1000=
100

43+00

33+00

27+00

16+50

13+50

12+00

10+00

1

2

3

4

5

6

29'

28'

10'

10'

18'

64'

SUBEXC

SUBEXC

SUBEXC

SUBEXC

SUBEXC

SUBEXC

SUBEXC

3300-2700=
600

1650-1520=
130

1350-1200=
150

34+50

18+10

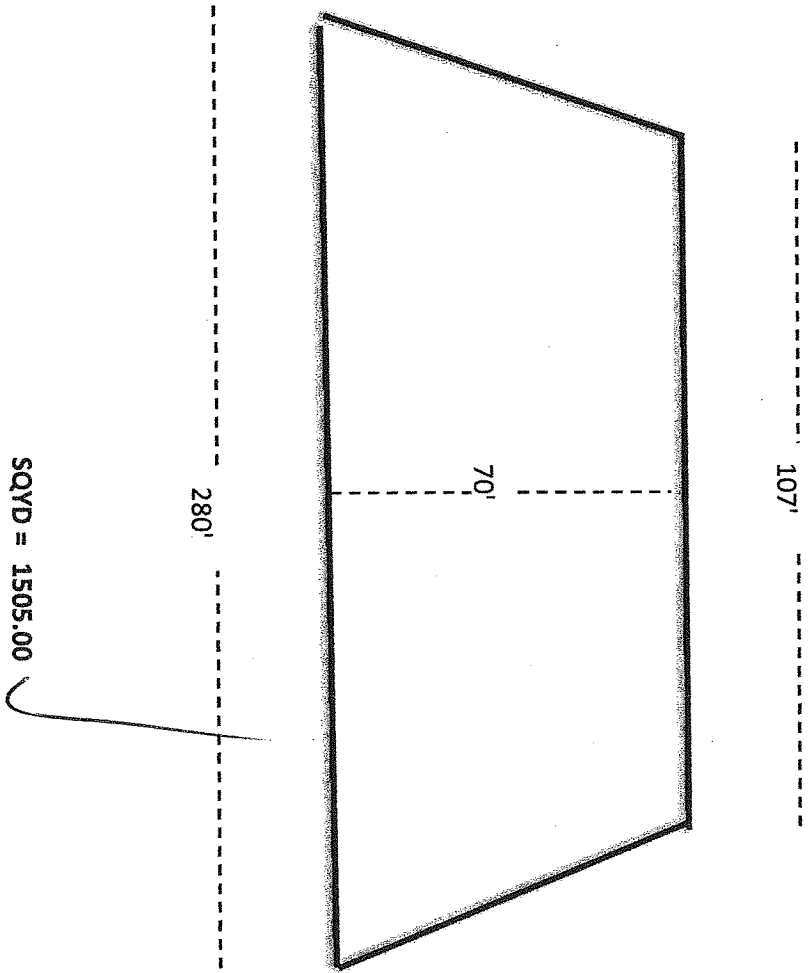
15+20

11+00

10+00

pulverizing support documentation

30306-3500 PULVERIZATION 7-INCH DEPTH @ CANNON BALL PARKING AREA



$$\text{AREA} = \left[\left(\frac{107' + 280'}{2} \right) \times 70' \right] = 13,545 \text{ SQFT}$$
$$13,545 \text{ SQFT} / (9 \text{ SQFT} / \text{SQYD}) = 1505 \text{ SQYD}$$

9/15/09



U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
Central Federal Lands Highway Division
12300 W. Dakota Ave. Lakewood, Colorado 80228

Item Quantity Pay Note Sheet

Date:

Project Number: Project Name:

Account:

Pay Note Information:

Pay Item #: Item Description: Pay Unit:

Item Line #: Item Type:

Pay Note #: Pay Period:

Pay Note Entry:

Work Start Date: Work End Date:

Location/Description:

Site D / Option X for Clark Road intersection on 6/09/09 = 68.5 SQFT*
Site D / Option X for Bishop Visitor Center Parking on 6/09/09 = 33.5 SQFT*
Site C for Boulder Creek Bridge on 06/09/09 = 13.5 SQFT*

*See attached TTC Construction Sign Support Calculations

Remarks/Calculations:

Per FP-03 635.27, 50% of the unit bid price will be paid upon installation. See attached TTC Construction Sign Payment Summary Sheet for retention information.

NOTE: Do not show retention information on any paynotes.

From TTC Construction Sign Support Calculations, total area of signs installed = 115.5 SQFT

Support Documentation/References:

TTC Construction Sign Certification, TTC Construction Sign Support Calculation, TTC Construction Sign Payment Summary Sheet

Measured By:

TOTAL QUANTITY: 115.5 (SQFT)

Interim Measurement Final Measurement

By signature below, I hereby certify that the measurements and calculations shown above are correct to the best of my knowledge and that the quantity being measured is subject to direct payment for the identified item under contract.

Contractor Representative (Print):

Date:

Contractor Representative (Signature):

Approved by FHWA Representative (Print):

Date:

Approved by FHWA Representative (Signature):

Checked by FHWA Representative (Signature):

Date:



MANUFACTURER AND DISTRIBUTOR
2324 SE Umatilla St. • Portland, Oregon 97202
Federal ID # 93-0500143 • WATS 1-800-547-8518
PHONE 503-235-8531 • FAX 503-235-5112 • EMAIL sales@t3sco.com

April 6, 2009

Tidewater Contractors, inc.
PO Box 1956
Brookings, OR 97415-0156

FAXED
4/6 10:15

Attn: Susan/George

Re: FHA project So. Fork Smith River Rd, CA PFH 112-1(1)
Certification

We certify that the construction signs produced on our invoices 913392 dated 3-27-09 and 913927 dated 4-03-09 meet or exceed specifications for this project. The signs were produced with 5052-H38 aluminum with Type IV reflective sheeting.

The type III barricades meet NCHRP-350 requirements, and the reflective sheeting is Type III

Please contact the undersigned if you need further information.

Thank you

Tom Loun
Quality Assurance

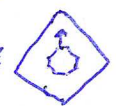
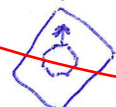
TTC construction sign support documentation

CONSTRUCTION SIGNS



63504-1000
5 & FT

SITE D / OPTION X



VERIFIED
6.9.09 RN

- ✓ ONE LANE ROAD AHEAD 1 EA 4'·4' = 16 ✓
- ✓ ONE LANE ROAD AHEAD 1 EA 4'·4' = 16 ✓
- ✓ 25 MPH 1 EA 18"·18" = 2.25 ✓
- ✓ 25 MPH 1 EA 18"·18" = 2.25 ✓
- ✓  1 EA 4'·4' = 16 ✓
- ✓  1 EA 4'·4' = 16 ✓

68.5 SQFT

- ✓ 500 FT 1 EA 18"·18" = 2.25 ✓
- ✓ 500 FT 1 EA 18"·18" = 2.25 ✓
- ✓  1 EA 18"·18" = 2.25 ✓
- ✓  1 EA 18"·18" = 2.25 ✓
- ✓ PROCEED WHEN CLEAR 1 EA 12"·24" = 2 ✓
- ✓ PROCEED WHEN CLEAR 1 EA 12"·24" = 2 ✓
- ✓ ROAD WORK AHEAD 1 EA 4'·4' = 16 ✓
- ✓ ROADWAY IMPROVEMENT 1 EA 18"·36" = 4.5 ✓

SITE C

- ✓ 25 MPH 1 EA 18"·18" = 2.25 ✓
 - ✓ 25 MPH 1 EA 18"·18" = 2.25 ✓
- BOULDER CK BRIDGE
- ✓  1 EACH 18"·18" = 2.25 ✓
 - ✓  1 EA 18"·18" = 2.25 ✓

13.5 SQFT

13.5

SITE B

- ✓ 25 MPH 1 EA 18"·18" = 2.25 ✓
- ✓ 25 MPH 1 EA 18"·18" = 2.25 ✓

TTC construction sign support documentation



U.S. Department
of Transportation
Federal Highway
Administration

CA PFH 112-1(1), South Fork Smith River Road
Schedule A

TTC Construction Sign Payment Summary Sheet 63504-1000

Paynote #	Paynote Date	Total Quantity (SQFT)	Per section 635.27 of the FP-03									Percentage of total qnty paid to date
			50 % paid upon installation			25% paid upon 50% completion of project			25% paid upon removal			
			Quantity	Date	PP	Quantity	Date	PP	Quantity	Date	PP	
3	6/5/09	25	12.5	5-Jun	1	6.25	31-Oct	5		TBD		0.75
6	6/6/09	112	56	6-Jun	1	28	31-Oct	5		TBD		0.75
12	6/9/09	115.5	57.75	9-Jun	1	28.875	31-Oct	5		TBD		0.75
15	6/13/09	29	14.5	13-Jun	1	7.25	31-Oct	5		TBD		0.75
16	6/20/09	15	7.5	20-Jun	1	3.75	31-Oct	5		TBD		0.75
19	6/26/09	62	31	26-Jun	1	15.5	31-Oct	5		TBD		0.75
24	7/2/09	14	7	2-Jul	2	3.5	31-Oct	5		TBD		0.75
27	7/3/09	32	16	3-Jul	2	8	31-Oct	5		TBD		0.75
Totals		404.5	202.25			101.125						0.75

NOTE TO PROJECT ENGINEERS: This is only an example of a tracking method for TTC quantities. Other formats should be used given project conditions. DO NOT LET CONTRACTORS SHOW RETENT OF QUANTITIES ON PAYNOTES. IT SHOULD BE DEDUCTED AND SHOWN ONLY ON A MONTHLY SUMMARY SHEET OR ITEM SUMMARY SHEET, SUCH AS THIS.

Section 8: CUBIC YARD ITEMS

20401 Roadway Excavation	Page 116
20420 Roadway Embankment	Page 120
20441 Waste	Page 124
25101 Placed Riprap	Page 129
60101 Concrete	Page 133

GENERAL NOTE:

The items shown here are examples only - all measurement, documentation, and payment will conform to the project contract requirements regardless of what is shown here. Included here are examples of some of the many documentation types that may be required. Often documentation such as certifications and qualifications may be submitted and accepted once and then referenced accordingly instead of attaching additional copies for each pay note or payment period. Many documentation items are required prior to production, delivery, or placement; required documentation should be provided at the appropriate time and not necessarily at time of payment.

NOTE ON VOLUME ITEMS:

Volume quantities shown in the Plans are estimates; only actually ordered and performed quantities are paid. Please refer to the FP, the Special Contract Requirements, and plans of your project for detailed instructions prior to submitting any pay notes. Depending on the specific item, volume items are measured by the following methods;

- (1) Cubic yard in place
- (2) Cubic yard in the hauling vehicle
- (3) Cubic yard in the structure.
- (4) Cubic yard by metering

Please see section 109.02 (b) and the section of the specific pay item within the contract for detailed measurement requirements. When submitting for payment on items paid by volume, it is required to show on the paynote when the work was performed, where the work was performed (station ranges, offsets, sketches), measurement and calculations with volume formulas clearly noted, who measured the work, survey reports if performed, and necessary conversion calculations (i.e. cubic foot to cubic yard).



U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
Central Federal Lands Highway Division
12300 W. Dakota Ave. Lakewood, Colorado 80228

Item Quantity Pay Note Sheet

Date:

Project Number: Project Name:

Account:

Pay Note Information:

Pay Item #: Item Description: Pay Unit:

Item Line #: Item Type:

Pay Note #: Pay Period:

Pay Note Entry:

Work Start Date: Work End Date:

Location/Description:

Rock Creek Site Roadway Excavation from Station 206+00 to 207+60 RT (inboard) side rock slope cuts (~1.5H:1.0V)

Remarks/Calculations:

Per end area calculations from before & after surveyed cross sections, the total excavated area at Rock Creek = 2714.59 CUYD
Pay 2714.59 CUYD

Support Documentation/References:

Rock Creek As-Built Volumes, Rock Creek As-Built Cross Sections, Rock Creek Survey Data

Measured By:

TOTAL QUANTITY: 2714.59 (CUYD)

Interim Measurement Final Measurement

By signature below, I hereby certify that the measurements and calculations shown above are correct to the best of my knowledge and that the quantity being measured is subject to direct payment for the identified item under contract.

Contractor Representative (Print):

Date:

Contractor Representative (Signature):

Approved by FHWA Representative (Print):

Date:

Approved by FHWA Representative (Signature):

Checked by FHWA Representative (Signature):

Date:

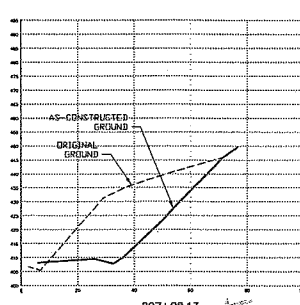
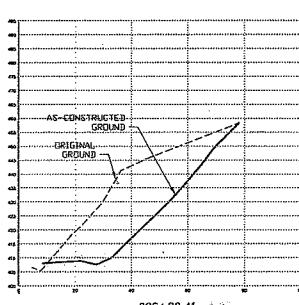
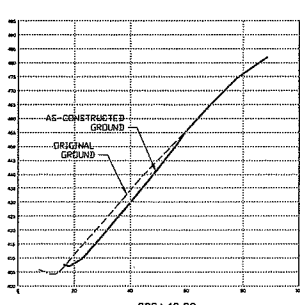
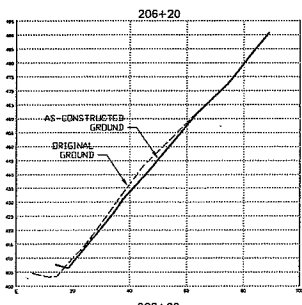
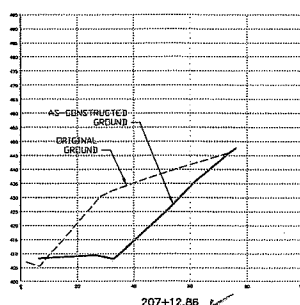
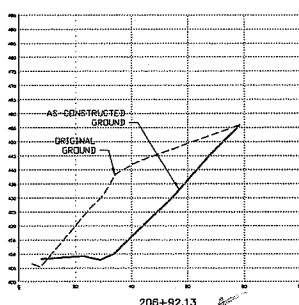
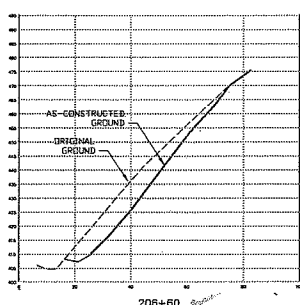
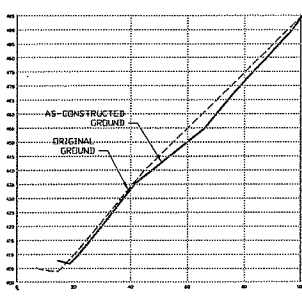
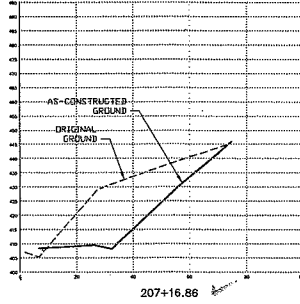
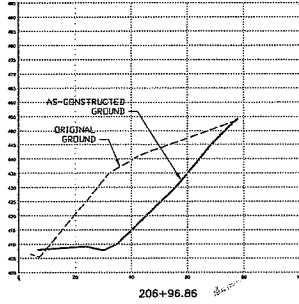
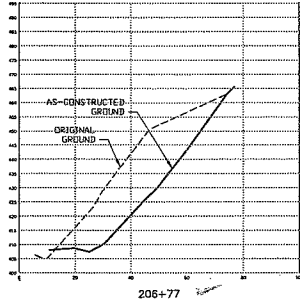
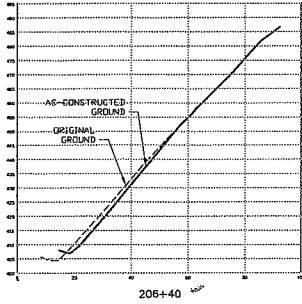
excavation support documentation

ROCK CREEK SITE
AS_BUILT VOLUMES

STATION	DISTANCE	END AREA (DESIGN) Sq. Ft.	VOLUME (DESIGN) Cu. Ft.	END AREA (ACTUAL) Sq. Ft.	VOLUME (ACTUAL) Cu. Ft.
206+00.00		2.69		90.31	
	20.00		48.10		3125.30
* 206+20.00 ✓		2.12		222.22	
	20.00		43.70		2922.10
206+40.00 ✓		2.25		69.99	
	8.20		25.09 ✓		898.43
206+48.20 ✓		3.87		149.14	
	11.80		265.74 ✓		3091.66
206+60.00 ✓		41.17		374.87	
	17.00		2404.40 ✓		10450.58
* 206+77.00 ✓		241.70		854.61	
	11.41		3737.74 ✓		10525.72
* 206+88.41 ✓		413.47		990.39	
	3.72		1608.97 ✓		3695.37
* 206+92.13 ✓		451.57		996.37	
	4.73		2183.34		4651.93
206+96.86 ✓		471.62		970.62	
	11.27		5496.38		10456.02
207+08.13 ✓		503.78		884.93	
	4.73		2333.66		4006.07
207+12.86 ✓		482.97		808.97	
	4.00		1862.62		3099.46
* 207+16.86 ✓		448.34		740.76	
	8.27		3498.95		5566.50
207+25.13 ✓		397.84		605.43	
	4.55		1650.63		2562.61
207+29.68 ✓		327.71		520.99	
	7.45		2010.23		3326.13
207+37.13 ✓		211.95		371.93	
	4.73		846.91		1583.65
* 207+41.86 ✓		146.15		297.69	
	18.14		1412.02		3332.41
207+60.00 ✓		9.53		69.72	
			29428.49		73293.95
			1089.94 (Design)	CU. FT. CU. YD.	2714.59 (Actual)

Actual excavation work at this station range was approved by the CO.

excavation support documentation SOUTH FORK SMITH RIVER
CA PFH 112-1(1)
ROCK CREEK SITE
AS-BUILT
CROSS SECTION



excavation support documentation

1300	2521664	6020153	412.555 TOPO EL	1380	2521795	6020039	492.222 TOPO EL
1304	2521647	6020179	404.83 TOPO EL	1381	2521778	6020043	487.874 TOPO EL
1305	2521652	6020186	404.35 TOPO EL	1382	2521756	6020073	471.264 TOPO EL
1306	2521656	6020193	403.87 TOPO EL	1383	2521735	6020077	468.187 TOPO EL
1307	2521661	6020200	403.39 TOPO EL	1384	2521772	6020042	493.834 TOPO EL
1333	2521678	6020145	412.486 TOPO EL	1385	2521784	6020035	499.284 TOPO EL
1334	2521681	6020147	410.034 TOPO EL	1386	2521796	6020030	503.364 TOPO EL
1335	2521685	6020144	410.035 TOPO EL				
1336	2521689	6020140	410.042 TOPO EL				
1337	2521694	6020136	410.019 TOPO EL				
1338	2521699	6020133	410.024 TOPO EL				
1339	2521704	6020130	410.008 TOPO EL				
1340	2521711	6020126	409.974 TOPO EL				
1341	2521720	6020124	409.959 TOPO EL				
1342	2521747	6020122	409.905 TOPO EL				
1343	2521751	6020122	409.888 TOPO EL				
1344	2521769	6020122	409.715 TOPO EL				
1345	2521780	6020120	409.545 TOPO EL				
1346	2521803	6020114	409.092 TOPO EL				
1347	2521821	6020095	428.256 TOPO EL				
1348	2521777	6020108	423.843 TOPO EL				
1349	2521753	6020110	422.558 TOPO EL				
1350	2521732	6020111	422.103 TOPO EL				
1351	2521707	6020114	422.189 TOPO EL				
1352	2521687	6020125	421.972 TOPO EL				
1353	2521671	6020137	422.026 TOPO EL				
1354	2521658	6020145	422.673 TOPO EL				
1355	2521657	6020134	430.646 TOPO EL				
1356	2521680	6020121	429.505 TOPO EL				
1357	2521698	6020109	429.875 TOPO EL				
1358	2521716	6020104	430.002 TOPO EL				
1359	2521730	6020104	429.776 TOPO EL				
1360	2521748	6020105	429.803 TOPO EL				
1361	2521765	6020104	430.794 TOPO EL				
1362	2521788	6020097	434.095 TOPO EL				
1363	2521815	6020090	438.175 TOPO EL				
1364	2521813	6020072	457.939 TOPO EL				
1365	2521790	6020072	454.484 TOPO EL				
1366	2521760	6020095	444.306 TOPO EL				
1367	2521735	6020094	443.5 TOPO EL				
1368	2521719	6020091	444.394 TOPO EL				
1369	2521700	6020094	444.944 TOPO EL				
1370	2521692	6020091	446.527 TOPO EL				
1371	2521715	6020081	455.488 TOPO EL				
1372	2521740	6020088	452.443 TOPO EL				
1373	2521760	6020088	453.697 TOPO EL				
1374	2521768	6020083	456.246 TOPO EL				
1375	2521788	6020062	466.449 TOPO EL				
1376	2521811	6020058	471.735 TOPO EL				
1377	2521816	6020059	472.337 TOPO EL				
1378	2521807	6020041	493.969 TOPO EL				
1379	2521807	6020041	493.971 TOPO EL				

SURVEY DATA



U.S DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
Central Federal Lands Highway Division
12300 W. Dakota Ave. Lakewood, Colorado 80228

Item Quantity Pay Note Sheet

Date:

Project Number: Project Name:

Account:

Pay Note Information:

Pay Item #: Item Description: Pay Unit:

Item Line #: Item Type:

Pay Note #: Pay Period:

Pay Note Entry:

Work Start Date: Work End Date:

Location/Description:

Reinforced Embankment Construction on 1.5H:1V Reinforced Soil Slope: 1.5' lift (el. 8975.5 - el. 8977), STATION 276+25 to 277+85.

Remarks/Calculations:

Per Embankment Calculation (el. 8975.5 -8977), the volume on this lift = 453.33 CUYD
Pay 453.33 CUYD

Support Documentation/References:

Embankment Calculation (el. 8975.5 -8977), Site 5 Embankment Tracking by Lift, Site 5 Testing Summary

Measured By:

TOTAL QUANTITY: 453.33 (CUYD)

Interim Measurement Final Measurement

By signature below, I hereby certify that the measurements and calculations shown above are correct to the best of my knowledge and that the quantity being measured is subject to direct payment for the identified item under contract.

Contractor Representative (Print):

Date:

Contractor Representative (Signature):

Approved by FHWA Representative (Print):

Date:

Approved by FHWA Representative (Signature):

Checked by FHWA Representative (Signature):

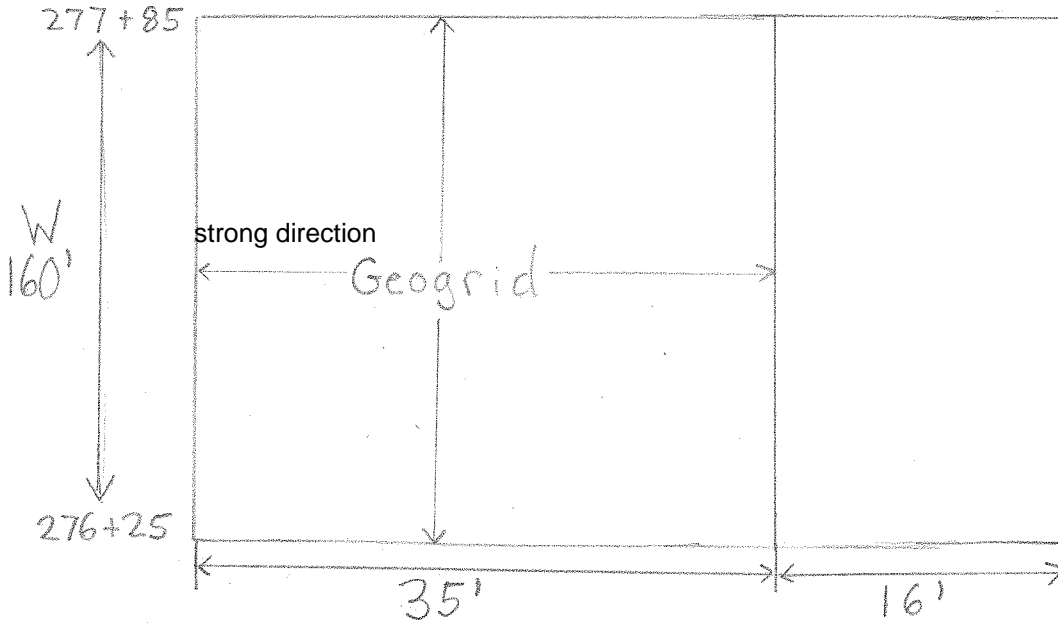
Date:

MADE BY TU DATE 10/22/11

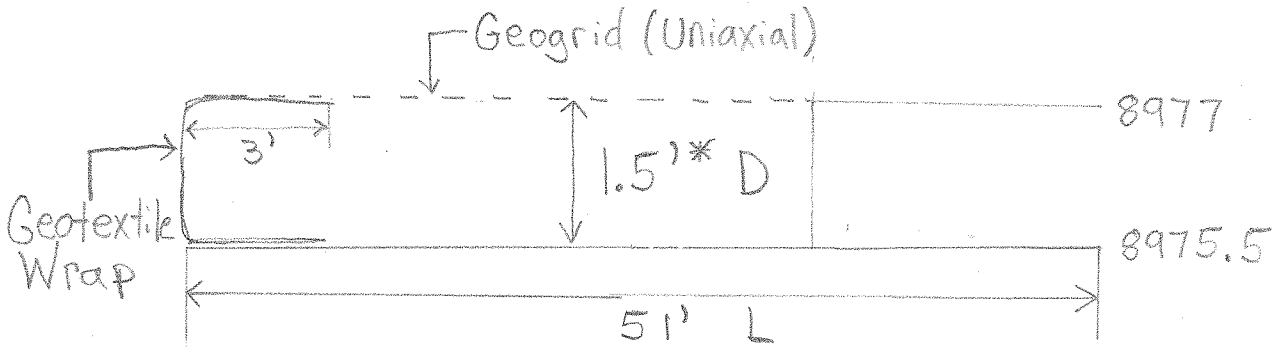
PROJECT WY ERFO 261(1)
Cedar Pass Road

CHECKED BY DATE
CALCULATIONS FOR Embankment (el. 8975.5-8977) SHEET NO.

Plan View (el. 8977):



Cross Section View:



* Compacted Fill depth: 125.7 PCF (96.4%), 5.2% (-1.5%)
PASS

Calculation (CUYD)

$$\text{Volume} = \frac{(1.5' D \times 160' W \times 51' L)}{27 \text{ ft}^3/\text{YD}^3} = \underline{\underline{453.33 \text{ CUYD}}}$$

embankment construction support documentation

Site 5 EMBANKMENT TRACKING BY LIFT									
WY ERFO 261(1), Cedar Pass Road CONTRACTOR: Rocky Mountain Excavating									
Date	Station	To	Station	El. (ft)	To	El. (ft)	Width (ft)	(CUYD)	Notes
9/27/2011	277+50	-	277+62	8936.5	-	8939.5	35	46.67	Permeable
9/28/2011	277+30	-	277+50	8934.0	-	8938.0	35	103.70	Permeable
9/28/2011	277+30	-	277+50	8938.0	-	8939.5	35	38.89	Permeable
9/28/2011	277+30	-	277+62	8939.5	-	8941.0	32.75	58.22	Permeable
9/29/2011	277+12	-	277+62	8941.0	-	8944.0	30	166.67	Permeable
9/29/2011	277+12	-	277+62	8944.0	-	8945.5	30	83.33	Borrow
9/30/2011	277+00	-	277+62	8945.5	-	8947.0	30	103.33	Borrow
10/1/2011	277+00	-	277+62	8947.0	-	8949.5	30	172.22	Borrow
10/3/2011	276+87	-	277+00	8948.0	-	8949.5	30	21.67	Borrow
10/3/2011	276+87	-	277+62	8949.5	-	8951.5	30	166.67	Borrow
10/4/2011	277+15	-	277+45	8948.5	-	8951.5	5	16.67	Borrow
10/4/2011	276+75	-	277+62	8951.5	-	8953.0	35	169.17	Borrow
10/4/2011	276+53	-	276+75	8951.5	-	8953.0	25	30.56	Borrow
10/5/2011	276+53	-	277+62	8953.0	-	8956.0	35	423.89	Borrow
10/6/2011	276+90	-	277+20	8952.0	-	8957.5	10	61.11	Borrow
10/6/2011	276+90	-	277+20	8954.0	-	8957.5	10	38.89	Borrow
10/6/2011	276+90	-	277+20	8956.0	-	8957.5	10	16.67	Borrow
10/6/2011	276+75	-	277+62	8956.0	-	8957.5	35	169.17	Borrow
10/6/2011	276+53	-	276+75	8956.0	-	8957.5	25	30.56	Borrow
10/14/2011	276+53	-	276+75	8957.5	-	8959.0	25	30.56	Borrow
10/14/2011	276+75	-	277+62	8957.5	-	8959.0	35	169.17	Borrow
10/14/2011	277+00	-	277+20	8957.5	-	8960.5	20	44.44	Borrow
10/14/2011	276+53	-	277+62	8959.0	-	8960.5	35	211.94	Borrow
10/14/2011	276+44	-	277+62	8960.5	-	8962.0	35	229.44	Borrow
10/15/2011	276+44	-	277+62	8962.0	-	8963.5	35	229.44	Borrow
10/15/2011	276+44	-	277+66	8963.5	-	8965.0	35	237.22	Borrow
10/16/2011	276+44	-	277+66	8965.0	-	8966.5	35	237.22	Borrow
10/18/2011	276+41	-	277+66	8966.5	-	8968.0	60	416.67	Borrow
10/19/2011	276+41	-	277+66	8968.0	-	8969.5	58	402.78	Borrow
10/19/2011	276+41	-	277+66	8969.5	-	8971.0	55	381.94	Borrow
10/20/2011	276+29	-	277+66	8971.0	-	8972.5	53	403.39	Borrow
10/21/2011	276+25	-	277+80	8972.5	-	8974.0	55	473.61	Borrow
10/21/2011	276+25	-	277+85	8974.0	-	8975.5	59	524.44	Borrow
10/22/2011	276+25	-	277+85	8975.5	-	8977.0	51	453.33	Borrow
10/23/2011	276+25	-	277+85	8977.0	-	8978.5	47	417.78	Borrow
10/24/2011	276+25	-	277+85	8978.5	-	8980.0	40	355.56	Borrow
10/25/2011	276+25	-	277+85	8980.0	-	8981.5	40	355.56	Borrow
10/27/2011	276+15	-	277+95	8981.5	-	8983.0	38	380.00	Borrow
10/28/2011	276+15	-	277+95	8983.0	-	8984.5	36	360.00	Borrow
RUNNING TOTAL=								8232.54	CUYD

embankment construction support construction

Site 5 EMBANKMENT TESTING SUMMARY**WY ERFO 261(1), Cedar Pass Road, CONTRACTOR INC.**

Date	Station	Elev. (ft.)	Proctor	Density (PCF)	Moisture (%)	% Compaction	(+/-) Moisture	Pass (Y/N)
9/27/2011	277+55	8938	In-Situ: 121.5 PCF @12.3%	116.6	14	96.0	1.7	Y
9/27/2011	277+58	8939.5	In-Situ: 121.5 PCF @12.3%	115.9	12.7	95.4	0.4	Y
9/29/2011	277+50	8945	In-Situ: 121.5 PCF @12.3%	118.9	14.5	97.9	2.2	Y
9/29/2011	277+15	8945	In-Situ: 121.5 PCF @12.3%	120.6	13	99.3	0.7	Y
9/30/2011	277+25	8945.5	In-Situ: 121.5 PCF @12.3%	118	13.8	97.1	1.5	Y
9/30/2011	277+20	8946	In-Situ: 121.5 PCF @12.3%	117.9	14.2	97.0	1.9	Y
9/30/2011	276+55	8946	In-Situ: 121.5 PCF @12.3%	116.9	14.1	96.2	1.8	Y
9/30/2011	277+45	8947	Rch Pit: 130.4 PCF @6.7%	126.8	7.2	97.2	0.5	Y
10/1/2011	277+40	8948	Rch Pit: 130.4 PCF @6.7%	124.9	8.1	95.8	1.4	Y
10/1/2011	277+30	8948.5	Rch Pit: 130.4 PCF @6.7%	129.2	7.7	99.1	1	Y
10/1/2011	277+15	8949.5	Rch Pit: 130.4 PCF @6.7%	126.1	7.6	96.7	0.9	Y
10/3/2011	277+00	8951.5	Rch Pit: 130.4 PCF @6.7%	125.7	8	96.4	1.3	Y
10/4/2011	277+00	8953	Rch Pit: 130.4 PCF @6.7%	129.7	8.1	99.5	1.4	Y
10/5/2011	277+15	8954	Rch Pit: 130.4 PCF @6.7%	125.7	5.9	96.4	-0.8	Y
10/6/2011	277+25	8956	Rch Pit: 130.4 PCF @6.7%	126	6.4	96.6	-0.3	Y
10/14/2011	277+20	8957.5	Rch Pit: 130.4 PCF @6.7%	128.7	6	98.7	-0.7	Y
10/14/2011	276+55	8959	Rch Pit: 130.4 PCF @6.7%	127.2	6.3	97.5	-0.4	Y
10/14/2011	277+45	8960.5	Rch Pit: 130.4 PCF @6.7%	128	6.1	98.2	-0.6	Y
10/14/2011	277+20	8962	Rch Pit: 130.4 PCF @6.7%	128.9	7.4	98.8	0.7	Y
10/15/2011	277+55	8963.5	Rch Pit: 130.4 PCF @6.7%	130.2	7.2	99.8	0.5	Y
10/15/2011	277+45	8965	Rch Pit: 130.4 PCF @6.7%	129.8	7.1	99.5	0.4	Y
10/16/2011	276+40	8966.5	Rch Pit: 130.4 PCF @6.7%	128.7	8.4	98.7	1.7	Y
10/18/2011	277+30	8968	Rch Pit: 130.4 PCF @6.7%	129.5	8.2	99.3	1.5	Y
10/19/2011	277+15	8969.5	Rch Pit: 130.4 PCF @6.7%	129.5	7.4	99.3	0.7	Y
10/19/2011	276+20	8971	Rch Pit: 130.4 PCF @6.7%	133.2	13.2	102.1	6.5	Y
10/20/2011	277+55	8972.5	Rch Pit: 130.4 PCF @6.7%	137.2	9.8	105.2	3.1	Y
10/21/2011	277+45	8974	Rch Pit: 130.4 PCF @6.7%	127.7	8.1	97.9	1.4	Y
10/21/2011	277+40	8975.5	Rch Pit: 130.4 PCF @6.7%	128.7	7.4	98.7	0.7	Y
10/22/2011	277+30	8977	Rch Pit: 130.4 PCF @6.7%	125.7	5.2	96.4	-1.5	Y
10/23/2011	276+15	8978.5	Rch Pit: 130.4 PCF @6.7%	130	6.9	99.7	0.2	Y
10/24/2011	277+10	8980	Rch Pit: 130.4 PCF @6.7%	129.9	6.9	99.6	0.2	Y
10/25/2011	277+00	8981.5	Rch Pit: 130.4 PCF @6.7%	126.4	6.3	96.9	-0.4	Y
10/27/2011	276+50	8983	Ten Pit: 137.2 PCF @ 4.3%	133.9	4.6	97.6	0.3	Y
10/28/2011	277+50	8984.5	Ten Pit: 137.2 PCF @ 4.3%	136.3	5.3	99.3	1	Y
10/29/2011	277+00	8986	Ten Pit: 137.2 PCF @ 4.3%	130.9	4	95.4	-0.3	Y
10/30/2011	276+70	8988	Ten Pit: 137.2 PCF @ 4.3%	137.1	5.1	99.9	0.8	Y
10/30/2011	276+30	8990.5	Ten Pit: 137.2 PCF @ 4.3%	135.1	4.9	98.5	0.6	Y



U.S. DEPARTMENT OF TRANSPORTATION
 FEDERAL HIGHWAY ADMINISTRATION
 Central Federal Lands Highway Division
 12300 W. Dakota Ave. Lakewood, Colorado 80228

Item Quantity Pay Note Sheet

Date: 01/19/2012

Project Number: SD PFH 17-1(6)

Project Name: Hill City to Lead

Account: Schedule A

Pay Note Information:

Pay Item #: 20441-0000

Item Description: Waste

Pay Unit: CUYD

Item Line #: N/A (for EEBACS only)

Item Type: N/A (for EEBACS only)

Pay Note #: 176

Pay Period: 4

Pay Note Entry:

Work Start Date: 01/10/2012

Work End Date: 01/19/2012

Location/Description:

Waste Pile #1	Total	Waste Pile #2	Total
(1) Station 23+60 to 24+25 = 117 CUYD*	531 CUYD	(6) Station 41+68 to 45+42 = 198 CUYD*	495 CUYD
(2) Station 24+25 to 26+14 = 99 CUYD*		(7) Station 51+98 to 52+74 = 108 CUYD*	
(3) Station 31+17 to 32+09 = 135 CUYD*		(8) Station 55+67 to 56+12 = 63 CUYD*	
(4) Station 34+68 to 35+12 = 72 CUYD*		(9) Station 56+12 to 57+64 = 90 CUYD*	
(5) Station 40+97 to 41+68 = 108 CUYD*		(10) Station 57+64 to 58+02 = 36 CUYD*	

*See spreadsheet for estimate calculations (based on load counts)

Remarks/Calculations:

Per FP-03 204.16.e, measure waste by the cubic yard in its final position. Take cross sections before and after to determine final quantity. Payment will be full compensation for the work prescribed in this section.

From Location/Description: ***This quantity is an interim estimated quantity based on load counts prior to final survey***

Total estimated quantity Waste pile #1 (CUYD) = 117 + 99 + 135 + 72 + 108 = 531 CUYD

Total estimated quantity Waste pile #2 (CUYD) = 198 + 108 + 63 + 90 + 36 = 495 CUYD

Total paid = 531 + 495 = 1026 (CUYD)

Support Documentation/References:

Spreadsheet computations based on load counts

Measured By: Joe the Inspector & Bob the Contractor

TOTAL QUANTITY:

1026 (CUYD)

 Interim Measurement Final Measurement

By signature below, I hereby certify that the measurements and calculations shown above are correct to the best of my knowledge and that the quantity being measured is subject to direct payment for the identified item under contract.

Contractor Representative (Print): Bob the Contractor

Date: 01/19/2012

Contractor Representative (Signature):

Approved by FHWA Representative (Print): Joe the Inspector

Date: 01/20/2012

Approved by FHWA Representative (Signature):

Checked by FHWA Representative (Signature): Jane the Project Engineer

Date: 01/20/2012

waste support documentation

**SD PFH 17-1(6) Hill City to Lead
20441-0000 WASTE (CUYD) TRACKING**

Date	Station	to	Station	Truck Loads	Approximate Volume (CUYD) from Truck Loads*	Description of Work
1/10/2012	23+60	-	24+25	13	117	Slope Cuts on inboard side. Laid back to 1V:1.5H. Waste Pile 1.
1/12/2012	24+25	-	26+14	11	99	Slope Cuts on inboard side. Laid back to 1V:1.5H. Waste Pile 1.
1/12/2012	31+17	-	32+09	15	135	Slope Cuts on outboard side. Laid back to 1V:2.0H Waste Pile 1.
1/12/2012	34+68	-	35+12	8	72	Slope Cuts on outboard side. Laid back to 1V:2.0H Waste Pile 1.
1/13/2012	40+97	-	41+68	12	108	Slope Cuts on inboard side. Laid back to 1V:1.5H. Waste Pile 1.

531

1/16/2012	41+68	-	45+42	22	198	Slope Cuts on inboard side. Laid back to 1V:1.5H. Waste Pile 2.
1/17/2012	51+98	-	52+74	12	108	Slope Cuts on inboard side. Laid back to 1V:1.5H. Waste Pile 2.
1/18/2012	55+67	-	56+12	7	63	Slope Cuts on inboard side. Laid back to 1V:1.5H. Waste Pile 2.
1/19/2012	56+12	-	57+64	10	90	Slope Cuts on inboard side. Laid back to 1V:1.5H. Waste Pile 2.
1/19/2012	57+64	-	58+02	4	36	Slope Cuts on inboard side. Laid back to 1V:1.5H. Waste Pile 2.

495





U.S. DEPARTMENT OF TRANSPORTATION
 FEDERAL HIGHWAY ADMINISTRATION
 Central Federal Lands Highway Division
 12300 W. Dakota Ave. Lakewood, Colorado 80228

Item Quantity Pay Note Sheet

 Date:

 Project Number:

 Project Name:

 Account:
Pay Note Information:

 Pay Item #:

 Item Description:

 Pay Unit:

 Item Line #:

 Item Type:

 Pay Note #:

 Pay Period:
Pay Note Entry:

 Work Start Date:

 Work End Date:
Location/Description:

Quantity based on cross section survey data

Waste Pile #1 Total 517.86 CUYD

*See TIN to TIN volume report

Waste Pile #2 Total 514.10 CUYD

NOTE: This item was previously paid on paynote #176 based on estimated interim values. This measurement indicates the final measurement per FP-03.

Remarks/Calculations:

Per FP-03 204.16.e, measure waste by the cubic yard in its final position. Take cross sections before and after to determine final quantity. ***This quantity is the final quantity based on final survey***

Total quantity Waste pile #1 (CUYD) = 517.86(actual) - 531(interim paid paynote #176) = -13.14 CUYD

Total quantity Waste pile #2 (CUYD) = 514.10(actual) - 495 (interim paid paynote #176) = 19.10 CUYD

Net pay for estimate = -13.14 + 19.10 = 5.96 CUYD

Support Documentation/References:

Computation checks and TIN to TIN reports

 Measured By:
TOTAL QUANTITY:
5.96 (CUYD)
 Interim Measurement Final Measurement

By signature below, I hereby certify that the measurements and calculations shown above are correct to the best of my knowledge and that the quantity being measured is subject to direct payment for the identified item under contract.

 Contractor Representative (Print):

 Date:

 Contractor Representative (Signature):

 Approved by FHWA Representative (Print):

 Date:

 Approved by FHWA Representative (Signature):

 Checked by FHWA Representative (Signature):

 Date:

SU PFH 17-1(6) Waste pile 1

site 15a.vol

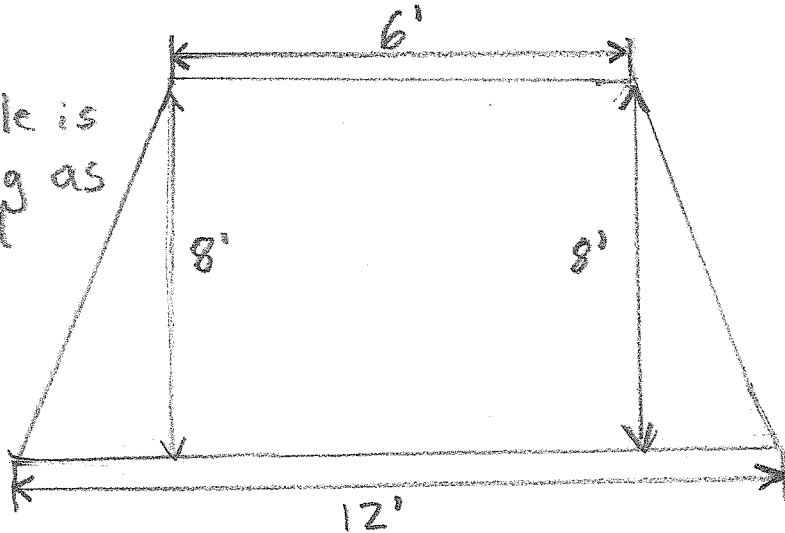
```

*****
**
** TIN to TIN Volume Report -- Thu Jan 26 09:52:41 2012
**
** From TIN <cavo10(2)og.tin> to TIN <Red Line.tin>
**
** Prismoidal volume
**
**
*****
**
** Total Cut = 4.441 Cubic Yards
** Total Fill = 522.299 Cubic Yards
** Area = 605.302 Sq Yards
** Balance = -517.858 Cubic Yards ← Pay
**
*****

```

Measured by Joe the inspector and Bob the Contractor on 1/21/12
 Calculations by Jim the Contractor on 1/23/12

Waste pile is
~220' long as
measured



$$V = \left[\left(\frac{12' + 6'}{2} \right) \times 8' \times 220' \right] \div 27 \frac{\text{CUYD}}{\text{CUFT}} = 521 \text{ CUY}$$

Pay surveyed amount of 517.86 CUYD

SD PFH 17-1(6)
Waste Pile 2
site 15b.vol

waste support documentation

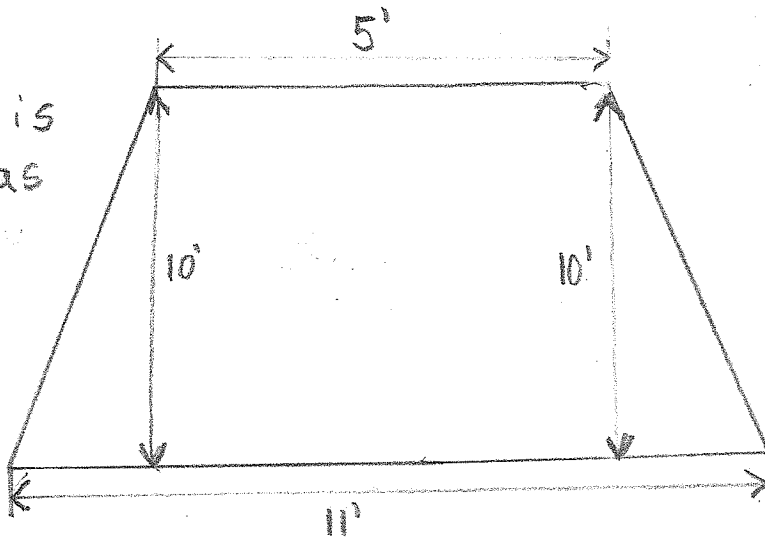
```

*****
**
** TIN to TIN volume Report -- Thu Jan 26 09:55:21 2012
**
** From TIN <Green Line.tin> to TIN <Red Line.tin>
**
** Prismoidal volume
**
**
*****
**
** Total Cut = 2.620 Cubic Yards
** Total Fill = 516.720 Cubic Yards
** Area = 603.939 sq Yards
** Balance = -514.100 Cubic Yards ← Pay
**
*****

```

Measured by Joe the inspector and Bob the Contractor on 1/21/12
 Calculations by Jim the Contractor on 1/23/12

Waste pile is
~170' long as
measured



$$V = \left[\left(\frac{11' + 5'}{2} \right) \times 10' \times 170' \right] \div 27 \frac{\text{CUYD}}{\text{CUFT}} = 504 \text{ CUYD} \checkmark$$

Pay surveyed amount of 514.10 CUYD



U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
Central Federal Lands Highway Division
12300 W. Dakota Ave. Lakewood, Colorado 80228

Item Quantity Pay Note Sheet

Date: 11/08/2009

Project Number: ND PRA THRO 10(3) Project Name: North Unit Scenic Drive

Account: Option Y

Pay Note Information:

Pay Item #: 25101-2000 Item Description: RIPRAP, CLASS 2 Pay Unit: CUYD

Item Line #: N/A (for EEBACS only) Item Type: N/A (for EEBACS only)

Pay Note #: 125 Pay Period: 3

Pay Note Entry:

Work Start Date: 10/08/2009 Work End Date: 11/08/2009

Location/Description:

- (1) Station 385+00 on 11/08/09 = 6.85 CUYD*
- (2) Station 105+50 on 10/21/09 = 8.15 CUYD*
- (3) Station 227+00 on 10/08/09 = 8.94 CUYD*
- (4) Station 87+50 on 10/08/09 = 4.28 CUYD*

*See computations.

Remarks/Calculations:

Total quantity (CUYD) = 6.85 + 8.15 + 8.94 + 4.28 = 28.22 CUYD

Support Documentation/References:

riprap sketches and computations

Measured By: Joe the Inspector & Bob the Contractor

TOTAL QUANTITY: 28.22 (CUYD)

Interim Measurement Final Measurement

By signature below, I hereby certify that the measurements and calculations shown above are correct to the best of my knowledge and that the quantity being measured is subject to direct payment for the identified item under contract.

Contractor Representative (Print): Bob the Contractor

Date: 11/08/09

Contractor Representative (Signature):

Approved by FHWA Representative (Print): Joe the Inspector

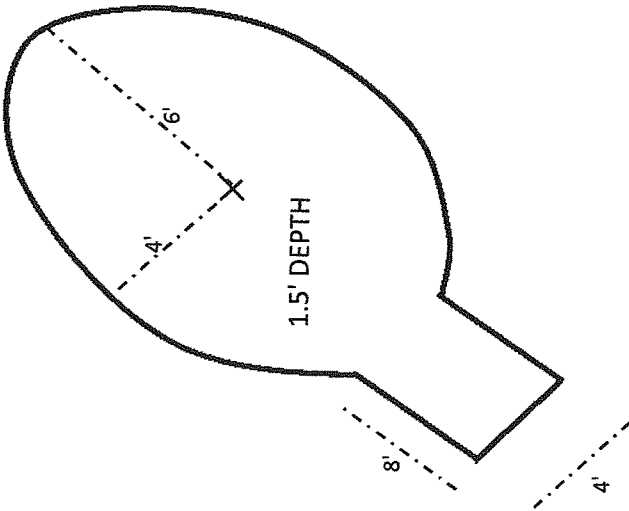
Date: 11/09/09

Approved by FHWA Representative (Signature):

Checked by FHWA Representative (Signature): Jane the Project Engineer

Date: 11/09/09

25101-2000 RIPRAP, CLASS 2 @ 385+00

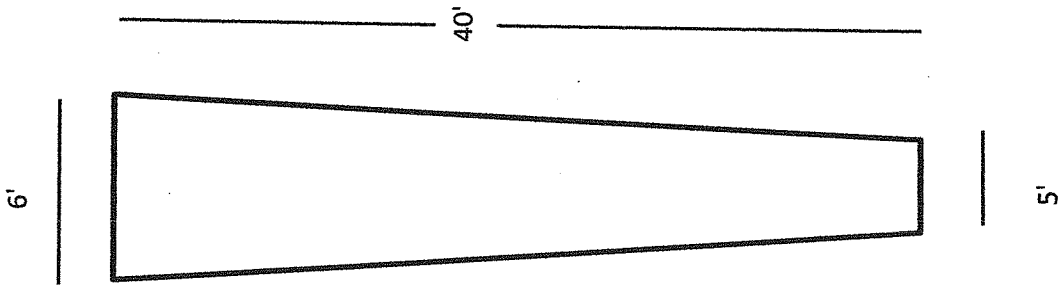


AREA OF ELLIPSE = $\pi * a * b$ where a & b are equal to 4' & 6' as seen in drawing

$$[(4' * 6' * 3.14) + (8' * 6')] * 1.5' / 27 = \checkmark \frac{6.85}{cuft} \text{ CUYD}$$

D.S.

25101-2000 RIPRAP, CLASS 2 @105+50

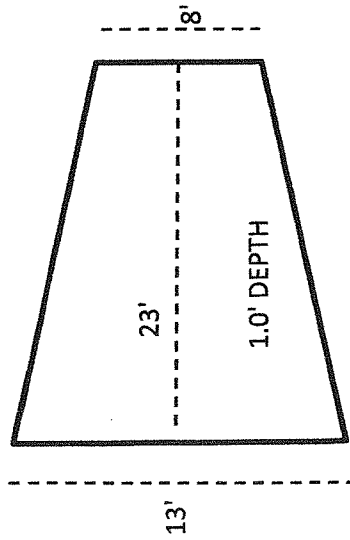


$(40 \text{ FT} * 5.5 \text{ FT} * 1 \text{ FT}) / 27 = 8.15 \text{ CUYD}$ ✓ *OMF*

DEPTH: 1 FT

riprap support documentation

25101-2000 PLACED RIPRAP, CLASS 2 @ 227+00 & 87+50



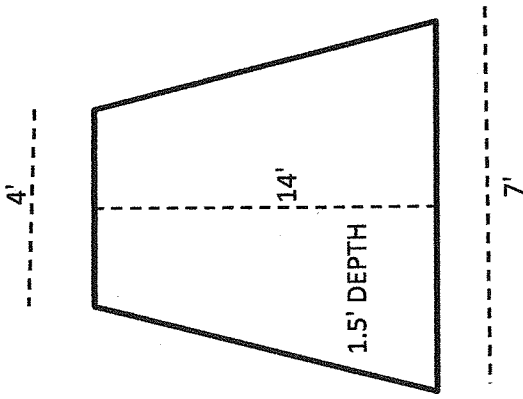
EDGE OF CULVERT @ 227+00

10.5

$$(1 \text{ FT} * 23 \text{ FT} * (13 \text{ FT} + 8 \text{ FT}) / 2) / 27$$

8.94 CUYD

✓ omf



GULLY @ 87+50

5.5

$$(14 \text{ FT} * 1.5 \text{ FT} * (4 \text{ FT} + 7 \text{ FT}) / 2) / 27$$

4.28 CUYD

✓ omf

DS



U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
Central Federal Lands Highway Division
12300 W. Dakota Ave. Lakewood, Colorado 80228

Item Quantity Pay Note Sheet

Date: 8/10/11

Project Number: ND PRA THRO 10(3) Project Name: North Unit Scenic Drive

Account: Option X

Pay Note Information:

Pay Item #: 60101-0000 Item Description: Concrete Pay Unit: CUYD

Item Line #: N/A (for EEBACS only) Item Type: N/A (for EEBACS only)

Pay Note #: 132 Pay Period: 4

Pay Note Entry:

Work Start Date: 8/08/11 Work End Date: 8/10/11

Location/Description:

8/08/11: 1210+76 Footings = 14.75 CUYD*
8/10/11: 1210+76 Wingwalls and Headwalls = 15.64 CUYD*

*See Concrete Pour Sketches and Calculations

Remarks/Calculations:

Total quantity (CUYD) = 14.75 + 15.64 = 30.39 CUYD

Support Documentation/References:

Concrete Pour Sketches and Calculations, 601 minor concrete certification example

Measured By: Joe the Inspector & Bob the Contractor

TOTAL QUANTITY: 30.39 (CUYD)

Interim Measurement Final Measurement

By signature below, I hereby certify that the measurements and calculations shown above are correct to the best of my knowledge and that the quantity being measured is subject to direct payment for the identified item under contract.

Contractor Representative (Print): Bob the Contractor

Date: 8/10/11

Contractor Representative (Signature):

Approved by FHWA Representative (Print): Joe the Inspector

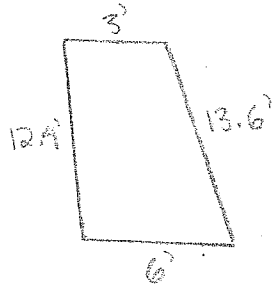
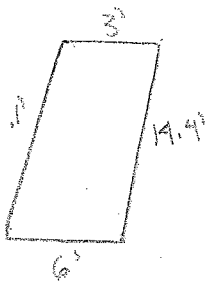
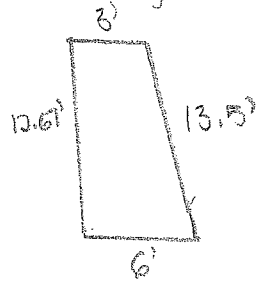
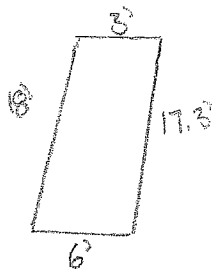
Date: 8/10/11

Approved by FHWA Representative (Signature):

Checked by FHWA Representative (Signature): Jane the Project Engineer

Date: 9/01/11

1210 + 76 - Footings (08/08/11)



$$\left(\frac{3' + 6'}{2}\right) \times \left(\frac{18' + 17.3'}{2}\right) \times 1.5' = 119.14 \text{ ft}^3$$

$$\left(\frac{3' + 6'}{2}\right) \times \left(\frac{12.67' + 13.5'}{2}\right) \times 1.5' = 88.32 \text{ ft}^3$$

$$\left(\frac{3' + 6'}{2}\right) \times \left(\frac{14.1' + 14.4'}{2}\right) \times 1.5' = 102.94 \text{ ft}^3$$

$$\left(\frac{3' + 6'}{2}\right) \times \left(\frac{12.4' + 13.6'}{2}\right) \times 1.5' = 87.75 \text{ ft}^3$$

All footings are 1.5' thick

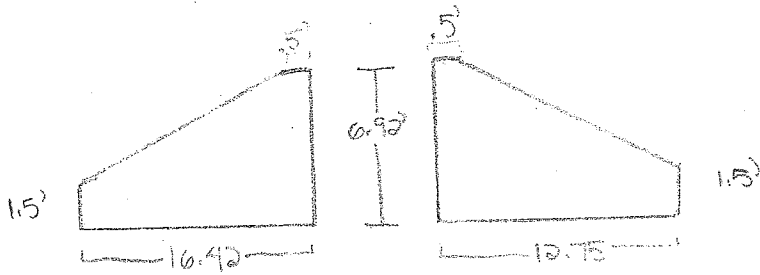
Total = 398.15 ft³

= 14.75 CUVD

Measured by Joe the Inspector and Bob the Contractor on 8/10/11

minor concrete support documentation

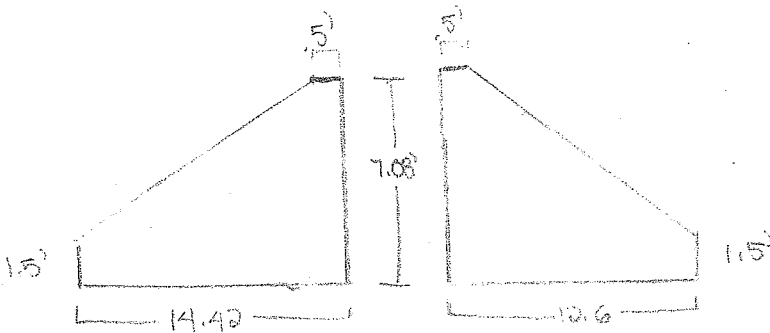
1210+76 wing walls (08/10/11)



$$2(1.5' \times 6.92') \times 1' = 6.92$$

$$\left(\frac{1.5' + 16.42'}{2}\right) \times 12.5' \times 1' = 52.63$$

$$\left(\frac{1.5' + 12.75'}{2}\right) \times 13.92' \times 1' = 67.02$$



$$2(1.5' \times 7.08') \times 1' = 7.08$$

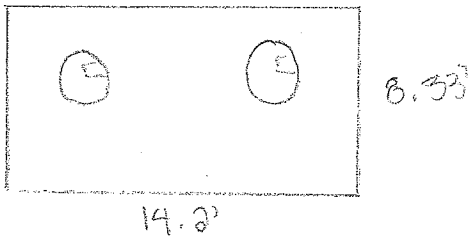
$$\left(\frac{1.5' + 14.42'}{2}\right) \times 12.0' \times 1' = 51.9$$

$$\left(\frac{1.5' + 12.6'}{2}\right) \times 13.92' \times 1' = 59.72$$

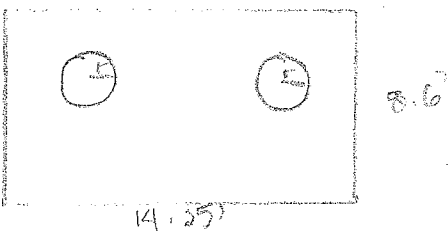
1' thick for all walls

1210+76 headwalls

$r = 2.25'$



$$(8.33' \times 14.2') - 2(\pi 2.25^2) = 86.48$$



$$(8.6' \times 14.25') - 2(\pi 2.25^2) = 90.74$$

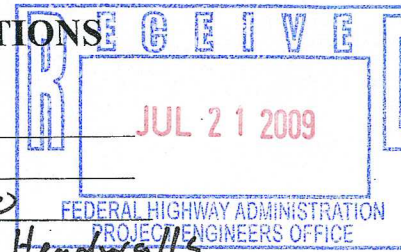
$$\text{Total} = 422.49 \text{ ft}^3$$

$$= 15.64 \text{ CU YD}$$

1' thick for both headwalls

TRANSMITTAL FORM FOR SUBMITTALS & CERTIFICATIONS

(attach additional sheets as necessary)



PROJECT NUMBER: CA PFH 112-1(1)

TRANSMITTAL NO: 2

PROJECT NAME: South Fork Smith River Road

DATE: 7/20/09

PAY ITEM NUMBER & DESCRIPTION: 60103-0080, 60103-0140

DESCRIPTION OF INFORMATION SUBMITTED: Concrete Mix Designs for Headwalls

NUMBER OF COPIES FURNISHED: 4

TYPE OF SUBMITTAL: New Submittal Resubmittal

VARIANCE OR SUBSTITUTION REQUESTED? Yes No

APPLICABLE CONTRACT REFERENCES (LIST) AND CONTRACT COMPLIANCE (INDICATE):

PLAN SHEET(S) <u>T1, T2</u>	PLAN COMPLIANCE?	Yes	No	Var/Sub	N/A
FP SUBSECTION(S) <u>601</u>	FP COMPLIANCE?	Yes	No	Var/Sub	N/A
SCR SUBSECTION(S) <u>-</u>	SCR COMPLIANCE?	Yes	No	Var/Sub	N/A
ACCEPTED DRAWINGS <u>-</u>	DRWG COMPLIANCE?	Yes	No	Var/Sub	N/A
OTHER <u>-</u>	OTHER COMPLIANCE?	Yes	No	Var/Sub	N/A

DESCRIBE ANY PROPOSED VARIATION OR SUBSTITUTION (include the reason for the requested change, a detailed comparison of the specified and proposed item, manufacturer's or other relevant supporting data, and any proposed cost savings to the Government. Attach additional pages as necessary. Note: the applicable specification compliance type listed above that relies on the variation or substitution should be marked "Var/Sub."):

Attached are 2 concrete mix designs for culvert headwalls.

I certify that the above submitted item(s) have been reviewed in detail and are correct, are in the proper units (metric or english as required by the contract), and are in strict conformance with the contract drawings and specifications except as otherwise stated.

Mike Beckstahler
(Signature and printed name of knowledgeable person)
(Date)

Tidewater 7/20/09
(Title and Company Name)

REVIEW BY QUALITY CONTROL MANAGER (return unacceptable submittals to submitter):

RECOMMENDED ACTION ON VARIANCE/SUBSTITUTION REQUEST: Approve Reject Resubmit
RECOMMENDED ACTION ON OVERALL SUBMITTAL: Accept Accept Except as Noted More Info Req'd on Var/Sub, Resubmit
 Accept Except as Noted/Resubmit Reject/Resubmit

Remarks:

I certify that I have reviewed the attached submittal or certification for apparent compliance with the contract requirements. Any deviations are identified above.

Signed by *Robert E Nixa* ROBERT E NIXA Date 7.21.09
(signature and printed name)

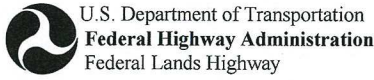
GOVERNMENT RESPONSE :

VARIANCE/SUBSTITUTION REQUEST: Approved Rejected Resubmit
OVERALL SUBMITTAL: Accepted Accepted Except as Noted Accepted Except as Noted/Resubmit
 Rejected/Resubmit More Info Req'd on Var/Sub, Resubmit

Remarks:

Signed by *T. J. [Signature]* _____ Date 8/17/09
(signature and printed name and title)

minor concrete support documentation



MINOR PORTLAND CEMENT CONCRETE MIX DESIGN TRIAL BATCH SUMMARY

Project: South Fork Smith River Date: 7/20/09
 Contractor: Tidewater Concrete for: culvert Headwalls
 Concrete producer: Eureka Ready Mix Concrete Co.
 Mix designation: F 255 - A

English Metric

MIX PROPERTIES

Compressive strength (28 day) 4500
 Slump 4"
 Air content 4% percent
 Water/cement ratio¹ .49

PROPORTIONS

Material	Specific Gravity (SSD)	SSD Mass	Absolute Volume	Admixtures	Dosage
Cement	3.15	<u>458</u>	<u>2.33</u>	Air entrainment	_____
Water	1.00	<u>299</u>	<u>4.79</u>	Water reducer	_____
Coarse aggregate	<u>5.32</u>	<u>1534</u>	<u>9.24</u>	Retarder	_____
Fine aggregate	<u>5.02</u>	<u>1558</u>	<u>9.56</u>	Color	_____
Total air _____			<u>1.08</u>	Accelerator	_____
Other _____				Other _____	_____
Totals:		<u>3849</u>	<u>27</u>		

¹ The ratio of the mass of water, exclusive only of that absorbed by the aggregate, to the combined mass of cementitious material (i.e. cement, fly ash, silica fume, and ground granulated blast furnace slag (GGBFS)).

APPROVED
 APPROVED AS NOTED
 RETURNED FOR CORRECTION
 Date 6/17/09 By [Signature]
 FEDERAL HIGHWAY ADMINISTRATION
 Central Federal Lands Highway Division
 See FAR 52.236.21(e) for limitations of Government's responsibility in approving this document

minor concrete support documentation

Edited by Foxit Reader

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EUREKA READY MIX CONCRETE CO. INC.

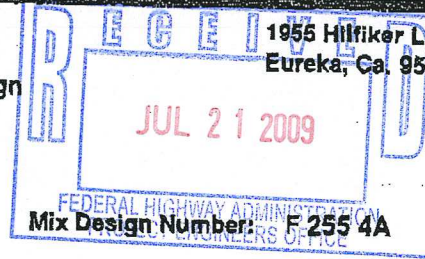


EUREKA SAND & GRAVEL

Concrete Mix Design

1955 Hillfiker Lane
Eureka, Ca. 95501

Contractor: Johnson Industries
Project: CAPFH 112-1(1)
Plant: Eureka Ready Mix
Aggregate Source: Arcata

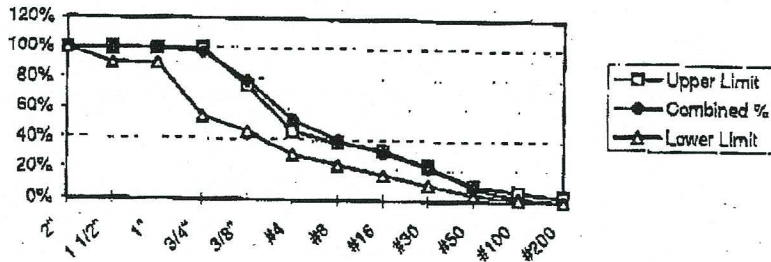


Mechanical analyses percent passing U.S. standard sieves

Sieve	2"	1 1/2"	1"	3/4"	3/8"	#4	#8	#16	#30	#50	#100	#200
1"x #4	100%	100%	100%	90%	18%	1%	0%	0%	0%	0%	0%	0%
3/8 Rock	100%	100%	100%	100%	99%	18%	1%	1%	0%	0%	0%	0%
Concrete Sand	100%	100%	100%	100%	100%	100%	82%	65%	45%	19%	4%	1%
Combined	100%	100%	100%	97%	78%	53%	40%	31%	22%	9%	2%	0%

"x" Values

Sack Content: 6.50 sk
Specified Strength: 4500 psi
Entrained Air: 4.0%
W/Cm Ratio: 0.49
Slump: 4.00
Cement Type: Type II
WRDA 64: 0 oz
Adva 100: 0 oz
Air Entrainment: 6 oz
Recover: 0 oz
Daraset: 0 oz



Material	100%	Specific Gravity	Density lb/ft ³	S.S.D. Weight	Vol. ft ³
1"x #4	26%	2.66	165.98	767 lb	4.62
3/8 Rock	26%	2.66	165.98	767 lb	4.62
Concrete Sand	48%	2.64	164.74	1405 lb	8.59
Cement	75%	3.15	196.56	458 lb	2.33
Fly Ash	25%	2.38	148.51	153 lb	1.03
Water		1.00	62.40	299 lb	4.79
Total Air:	4.0%				1.08
1 Bg Fibers					

Total	Unit Weight =	142.5 pcf	3849 lb	27.00
--------------	---------------	-----------	---------	-------

Note: Based upon aggregate in saturated surface dry conditions. Correction necessary for free moisture on aggregates.

The above mix is based on the consideration that the compressive strengths will equal or exceed the strength shown above when cylinders are taken, handled and cured in accordance with ASTM (C-31). If the correct procedures for testing are not followed or if the water/cementitious materials ratio is exceeded, this mix as shown above cannot be expected to produce the desired properties.

Submitted by *[Signature]*

Date: 7/20/09

EUREKA OFFICE (707) 443-2791 - FAX (707) 443-1363
 BLUE LAKE PLANT (707) 822-2937 - SHOP (707) 822-5738 SHOP FAX (707) 822-9215
 ARCATA (707) 822-1795 - ALTON PLANT (707) 725-4417 - FORTUNA PLANT (707) 725-1080

Section 9: TON ITEMS

40301 Hot Asphalt Concrete Pavement Page 139

41201 Tack Coat Page 149

GENERAL NOTE:

The items shown here are examples only - all measurement, documentation, and payment will conform to the project contract requirements regardless of what is shown here. Included here are examples of some of the many documentation types that may be required. Often documentation such as certifications and qualifications may be submitted and accepted once and then referenced accordingly instead of attaching additional copies for each pay note or payment period. Many documentation items are required prior to production, delivery, or placement; required documentation should be provided at the appropriate time and not necessarily at time of payment.

NOTE ON TON ITEMS:

Items paid by the Ton are typically required to conform to both specific weighing and receiving procedures so that they can be measured, documented, accepted, and paid. Please refer to the FP, the Special Contract Requirements, and plans for your project for detailed instructions prior to submitting any pay notes. In almost all cases, items by the ton require scale certification along with specific weight and receiving documentation. It is best to discuss and review sample documentation and procedures for acceptance prior to any production or delivery of material. Special care should also be taken to verify and calculate material documentation using the correct units and conversions for either Metric tons (ton, "t") and English tons (Ton, "T") as the case may require.



U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
Central Federal Lands Highway Division
12300 W. Dakota Ave. Lakewood, Colorado 80228

Item Quantity Pay Note Sheet

Date:

Project Number: Project Name:

Account:

Pay Note Information:

Pay Item #: Item Description: Pay Unit:

Item Line #: Item Type:

Pay Note #: Pay Period:

Pay Note Entry:

Work Start Date: Work End Date:

Location/Description:

Mainline paving from Station 101+60 to 113+00: RT(11.5') and LT(10.5' wide), 1.5" lift height per side.
Weigh Tickets* 198399, 198401, 198402, 198404, 198405, 198406, 198407, 198408, 198409, 198410

*11/11/10 Weigh Tickets attached

Remarks/Calculations:

Per attached 11/11/10 paving weigh tickets, pay 223.73 TONS

Support Documentation/References:

11/11/10 Weigh Tickets, Spread Report, Daily Record of Platform Scale Weights, Daily Yield Calculation
Note: All required asphalt test results per the contract are also needed prior to payment.

Measured By:

TOTAL QUANTITY: 223.73 (TONS)

Interim Measurement Final Measurement

By signature below, I hereby certify that the measurements and calculations shown above are correct to the best of my knowledge and that the quantity being measured is subject to direct payment for the identified item under contract.

Contractor Representative (Print):

Date:

Contractor Representative (Signature):

Approved by FHWA Representative (Print):

Date:

Approved by FHWA Representative (Signature):

Checked by FHWA Representative (Signature):

Date:

hot asphalt pavement support documentation

WEIGHMASTER CERTIFICATE

THIS IS TO CERTIFY that the following described commodity was weighed, measured, or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by Chapter 7 (commencing with Section 12700) of Division 5 of the California Business and Professions Code, administered by the Division of Measurement Standards of the California Department of Food and Agriculture.



TIDEWATER CONTRACTORS INC. (Weighmaster)

P.O. Box 1956 - Bookings, OR 97415 (541) 469-5341

CCB #29995 CA. #456696

198399

GR _____ LBS.
TARE _____ LBS.
NET 20.65 TONS

TIME ANSWER: 951
I STA: 101+60 - 102+90 RT

11-11-2010
CUSTOMER'S NAME DTFH-68-09-C-00010 #1382
DELIVER TO S. Fork Smith River Rd. SITE A
TRUCK CO. G. ALLEN TRUCK NO. 10 DRIVER: Bobby
DRIVER: ON OFF
PRODUCT Hot A/C # 40301000

ID 10

GROSS 76300 lb
TARE 35000 lb RECALLED
NET 41300 lb

SUPPLY SOURCE (check one)
 Crockett Bar _____ Hole Pit _____ Stary Pit #1 _____ Scheve

11/11/2010 10:24AM

Weight X Price = _____
Sales Tax = _____
Total = _____

WEIGHING LOCATION (check one)
 Crockett Bar: 1750 S. Fred Haight Drive, Smith River, CA
 Stary Pit #1: Approx. 3 mi. N. or Crescent City, CA, on Elk Valley Road
 Scheve Pit: Approx. 1.5 mi. up French Hill Rd., Gasquet, CA

TIME OUT _____ BY MARILIND CHAPIN
Deputy Weighmaster

20.65

WEIGHMASTER CERTIFICATE

THIS IS TO CERTIFY that the following described commodity was weighed, measured, or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by Chapter 7 (commencing with Section 12700) of Division 5 of the California Business and Professions Code, administered by the Division of Measurement Standards of the California Department of Food and Agriculture.



TIDEWATER CONTRACTORS INC. (Weighmaster)

P.O. Box 1956 - Bookings, OR 97415 (541) 469-5341

CCB #29995 CA. #456696

198401

GR _____ LBS.
TARE _____ LBS.
NET 21.70 TONS

TIME ANSWER: 1005
I STA: 102+60 - 105+25 RT

11-11-2010
CUSTOMER'S NAME DTFH-68-09-C-00010 #1382
DELIVER TO S. Fork Smith River Rd. SITE A
TRUCK CO. G. ALLEN TRUCK NO. 9 DRIVER: SAM
DRIVER: ON OFF
PRODUCT Hot A/C # 40301000

ID 9

GROSS 76180 lb
TARE 32780 lb RECALLED
NET 43400 lb

SUPPLY SOURCE (check one)
 Crockett Bar _____ Hole Pit _____ Stary Pit #1 _____ Scheve

11/11/2010 10:36AM

Weight X Price = _____
Sales Tax = _____
Total = _____

WEIGHING LOCATION (check one)
 Crockett Bar: 1750 S. Fred Haight Drive, Smith River, CA
 Stary Pit #1: Approx. 3 mi. N. or Crescent City, CA, on Elk Valley Road
 Scheve Pit: Approx. 1.5 mi. up French Hill Rd., Gasquet, CA

TIME OUT _____ BY MARILIND CHAPIN
Deputy Weighmaster

42.35

hot asphalt pavement support documentation

WEIGHMASTER CERTIFICATE

THIS IS TO CERTIFY that the following described commodity was weighed, measured, or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by Chapter 7 (commencing with Section 12700) of Division 5 of the California Business and Professions Code, administered by the Division of Measurement Standards of the California Department of Food and Agriculture.



TIDEWATER CONTRACTORS INC. (Weighmaster)

P.O. Box 1956 - Bookings, OR 97415 (541) 469-5341

CCB #29995 CA. #456696

198402

11-11 20 10

CUSTOMER'S NAME DTFH-68-09-C-00010 # 1382

DELIVER TO: S. Fork Smith River Rd. Site-A

TRUCK CO. O-Allen TRUCK NO. H DRIVER: MIKE

DRIVER: ON OFF

PRODUCT Hot A/C # H0301000

SUPPLY SOURCE (check one)

Crockett Bar Hole Pit Stary Pit #1 Scheve

WEIGHING LOCATION (check one)

Crockett Bar: 1750 S. Fred Haight Drive, Smith River, CA
 Stary Pit #1: Approx. 3 ml. N. or Crescent City, CA, on Elk Valley Road
 Scheve Pit: Approx. 1.5 ml. up French Hill Rd., Gasquet, CA

TIME OUT _____ BY Marilind Chapin
Deputy Weighmaster

GR _____ LBS.
TARE _____ LBS.
NET 22.98 TONS

TIME ARRIVED 1023
± STA. 105+10 - 107+80 NT

ID 4

GROSS 78940 lb
TARE 32980 lb RECALLED
NET 45960 lb

11/11/2010 10:50AM

Weight X Price = _____
Sales Tax = _____
Total = _____

65.3

WEIGHMASTER CERTIFICATE

THIS IS TO CERTIFY that the following described commodity was weighed, measured, or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by Chapter 7 (commencing with Section 12700) of Division 5 of the California Business and Professions Code, administered by the Division of Measurement Standards of the California Department of Food and Agriculture.



TIDEWATER CONTRACTORS INC. (Weighmaster)

P.O. Box 1956 - Bookings, OR 97415 (541) 469-5341

CCB #29995 CA. #456696

198404

11-11 20 10

CUSTOMER'S NAME DTFH-68-09-C-00010 # 1382

DELIVER TO: S. Fork Smith River Rd. Site-A

TRUCK CO. _____ TRUCK NO. 69 DRIVER: BON

DRIVER: ON OFF

PRODUCT Hot A/C # H0301000

SUPPLY SOURCE (check one)

Crockett Bar Hole Pit Stary Pit #1 Scheve

WEIGHING LOCATION (check one)

Crockett Bar: 1750 S. Fred Haight Drive, Smith River, CA
 Stary Pit #1: Approx. 3 ml. N. or Crescent City, CA, on Elk Valley Road
 Scheve Pit: Approx. 1.5 ml. up French Hill Rd., Gasquet, CA

TIME OUT _____ BY Marilind Chapin
Deputy Weighmaster

GR _____ LBS.
TARE _____ LBS.
NET 22.24 TONS

TIME ARRIVED 1041
± STA. 107+80 - 110+75 NT

ID 69

GROSS 78600 lb
TARE 34120 lb RECALLED
NET 44480 lb

11/11/2010 11:03AM

Weight X Price = _____
Sales Tax = _____
Total = _____

87.5

hot asphalt pavement support documentation

WEIGHMASTER CERTIFICATE

THIS IS TO CERTIFY that the following described commodity was weighed, measured, or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by Chapter 7 (commencing with Section 12700) of Division 5 of the California Business and Professions Code, administered by the Division of Measurement Standards of the California Department of Food and Agriculture.

GR _____ LBS.
TARE _____ LBS.
NET 22.17 LBS.
_____ TONS

2
5



TIDEWATER CONTRACTORS INC. (Weighmaster)

P.O. Box 1956 - Bookings, OR 97415
(541) 469-5341

CCB #29995
CA. #456696

198405

TIME ARRIVED 1101.
± STA 110+75 - 113+00 MT

11-11 20 10
CUSTOMER'S NAME DTFH-68-09-C-00010 # 1382
DELIVER TO: S Fork Smith River Rd. SITE-A
TRUCK CO. TWC TRUCK NO. 54 DRIVER: DAN
DRIVER: ON OFF
PRODUCT Hot A/C # 40301000
SUPPLY SOURCE (check one)

ID 54

GROSS 81940 lb
TARE 37600 lb RECALLED
NET 44340 lb

Crockett Bar _____ Hole Pit _____ Stary Pit #1 _____ Scheve

11/11/2010 11:17AM

WEIGHING LOCATION (check one)

Crockett Bar: 1750 S. Fred Haight Drive, Smith River, CA
 Stary Pit #1: Approx. 3 ml. N. or Crescent City, CA, on Elk Valley Road
 Scheve Pit: Approx. 1.5 ml. up French Hill Rd., Gasquet, CA

Weight X Price = _____

Sales Tax = _____

Total = _____

TIME OUT _____ BY Marilyn Chapin
Deputy Weighmaster

109.7

WEIGHMASTER CERTIFICATE

THIS IS TO CERTIFY that the following described commodity was weighed, measured, or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by Chapter 7 (commencing with Section 12700) of Division 5 of the California Business and Professions Code, administered by the Division of Measurement Standards of the California Department of Food and Agriculture.

GR _____ LBS.
TARE _____ LBS.
NET 22.12 LBS.
_____ TONS

6



TIDEWATER CONTRACTORS INC. (Weighmaster)

P.O. Box 1956 - Bookings, OR 97415
(541) 469-5341

CCB #29995
CA. #456696

198406

TIME ARRIVED 1214PM

11-11 20 10
CUSTOMER'S NAME DTFH-68-09-C-00010 # 1382
DELIVER TO: S Fork Smith River Rd. SITE-A
TRUCK CO. G-Allen TRUCK NO. 10 DRIVER: Bobby
DRIVER: ON OFF
PRODUCT Hot A/C # 40301000
SUPPLY SOURCE (check one)

ID 10

GROSS 79240 lb
TARE 35000 lb RECALLED
NET 44240 lb

Crockett Bar _____ Hole Pit _____ Stary Pit #1 _____ Scheve

11/11/2010 12:47PM

WEIGHING LOCATION (check one)

Crockett Bar: 1750 S. Fred Haight Drive, Smith River, CA
 Stary Pit #1: Approx. 3 ml. N. or Crescent City, CA, on Elk Valley Road
 Scheve Pit: Approx. 1.5 ml. up French Hill Rd., Gasquet, CA

Weight X Price = _____

Sales Tax = _____

Total = _____

TIME OUT _____ BY M. Chapin
Deputy Weighmaster

131.86

hot asphalt pavement support documentation

WEIGHMASTER CERTIFICATE

THIS IS TO CERTIFY that the following described commodity was weighed, measured, or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by Chapter 7 (commencing with Section 12700) of Division 5 of the California Business and Professions Code, administered by the Division of Measurement Standards of the California Department of Food and Agriculture.



TIDEWATER CONTRACTORS INC. (Weighmaster)

P.O. Box 1956 - Bookings, OR 97415 (541) 469-5341

CCB #29995 CA: #456696

198407

11-11 20 10

CUSTOMER'S NAME DTFH-68-09-C-00010 # 1382

DELIVER TO: S. Fork Smith River Rd. Side A

TRUCK CO. G. Allen TRUCK NO. 9 DRIVER: SAM

DRIVER: ON OFF

PRODUCT Hot A/C # H0301000

SUPPLY SOURCE (check one)

Crockett Bar Hole Pit Stary Pit #1 Scheve

WEIGHING LOCATION (check one)

Crockett Bar: 1750 S. Fred Haight Drive, Smith River, CA

Stary Pit #1: Approx. 3 mi. N. or Crescent City, CA, on Elk Valley Road

Scheve Pit: Approx. 1.5 mi. up French Hill Rd., Gasquet, CA

TIME OUT _____ BY Marilind Chapin
Deputy Weighmaster

GROSS _____ LBS.
TARE _____ LBS.
NET 22.98 LBS.
_____ TONS

Time Arrived 1232
± STA. 104+00 - 105+30 LT

ID 9
GROSS 78740 lb
TARE 32780 lb RECALLED
NET 45960 lb

11/11/2010 01:00PM

Weight X Price = _____
Sales Tax = _____
Total = _____

154.84

WEIGHMASTER CERTIFICATE

THIS IS TO CERTIFY that the following described commodity was weighed, measured, or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by Chapter 7 (commencing with Section 12700) of Division 5 of the California Business and Professions Code, administered by the Division of Measurement Standards of the California Department of Food and Agriculture.



TIDEWATER CONTRACTORS INC. (Weighmaster)

P.O. Box 1956 - Bookings, OR 97415 (541) 469-5341

CCB #29995 CA: #456696

198408

11-11 20 10

CUSTOMER'S NAME DTFH-68-09-C-00010 # 1382

DELIVER TO: S. Fork Smith River Rd. Side A

TRUCK CO. G. Allen TRUCK NO. 4 DRIVER: MIKE

DRIVER: ON OFF

PRODUCT Hot A/C # H0301000

SUPPLY SOURCE (check one)

Crockett Bar Hole Pit Stary Pit #1 Scheve

WEIGHING LOCATION (check one)

Crockett Bar: 1750 S. Fred Haight Drive, Smith River, CA

Stary Pit #1: Approx. 3 mi. N. or Crescent City, CA, on Elk Valley Road

Scheve Pit: Approx. 1.5 mi. up French Hill Rd., Gasquet, CA

TIME OUT _____ BY Marilind Chapin
Deputy Weighmaster

GROSS _____ LBS.
TARE _____ LBS.
NET 23.63 LBS.
_____ TONS

Time Arrived 1241
± STA 105+30 - 107+90 UT

ID 4
GROSS 80240 lb
TARE 32980 lb RECALLED
NET 47260 lb

11/11/2010 01:14PM

Weight X Price = _____
Sales Tax = _____
Total = _____

178.47

hot asphalt pavement support documentation

WEIGHMASTER CERTIFICATE

THIS IS TO CERTIFY that the following described commodity was weighed, measured, or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by Chapter 7 (commencing with Section 12700) of Division 5 of the California Business and Professions Code, administered by the Division of Measurement Standards of the California Department of Food and Agriculture.



TIDEWATER CONTRACTORS INC. (Weighmaster)

P.O. Box 1956 - Bookings, OR 97415 (541) 469-5341

CCB #29995 CA. #456696

198409

11-11 20 10

CUSTOMER'S NAME DTFH 68-09-C-00010 # 1382

DELIVER TO: S. fork Smith River Rd. site A

TRUCK CO. SUNRISE TRUCK NO. 69 DRIVER: Kon

DRIVER: ON OFF

PRODUCT Hot A/C # 40301000

SUPPLY SOURCE (check one)

Crockett Bar Hole Pit Stary Pit #1 Scheve

WEIGHING LOCATION (check one)

- Crockett Bar: 1750 S. Fred Haight Drive, Smith River, CA
- Stary Pit #1: Approx. 3 mi. N. or Crescent City, CA, on Elk Valley Road
- Scheve Pit: Approx. 1.5 mi. up French Hill Rd., Gasquet, CA

TIME OUT _____ BY Marilind Chapin
Deputy Weighmaster

GROSS _____ LBS.
TARE _____ LBS.
NET _____ LBS.
22.46 TONS

TIME ARRIVED 110
± STA. 107+90 - 110+60 LT

ID 69

GROSS 79040 lb
TARE 34120 lb RECALLED
NET 44920 lb

11/11/2010 01:25PM

Weight X Price = _____

Sales Tax = _____

Total = _____

200.93

WEIGHMASTER CERTIFICATE

THIS IS TO CERTIFY that the following described commodity was weighed, measured, or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by Chapter 7 (commencing with Section 12700) of Division 5 of the California Business and Professions Code, administered by the Division of Measurement Standards of the California Department of Food and Agriculture.



TIDEWATER CONTRACTORS INC. (Weighmaster)

P.O. Box 1956 - Bookings, OR 97415 (541) 469-5341

CCB #29995 CA. #456696

198410

11-11 20 10

CUSTOMER'S NAME DTFH-68-09-C-00010 # 1382

DELIVER TO: S. fork Smith River Rd. site-A

TRUCK CO. TWC TRUCK NO. 54 DRIVER: DAN

DRIVER: ON OFF

PRODUCT Hot A/C # 40301000

SUPPLY SOURCE (check one)

Crockett Bar Hole Pit Stary Pit #1 Scheve

WEIGHING LOCATION (check one)

- Crockett Bar: 1750 S. Fred Haight Drive, Smith River, CA
- Stary Pit #1: Approx. 3 mi. N. or Crescent City, CA, on Elk Valley Road
- Scheve Pit: Approx. 1.5 mi. up French Hill Rd., Gasquet, CA

TIME OUT _____ BY Marilind Chapin
Deputy Weighmaster

GROSS _____ LBS.
TARE _____ LBS.
NET _____ LBS.
22.79 TONS

TIME ARRIVED 136
± STA 110+60 - 113+00 LT

ID 54

GROSS 83180 lb
TARE 37600 lb RECALLED
NET 45580 lb

11/11/2010 01:39PM

Weight X Price = _____

Sales Tax = _____

Total = _____

223.72

WFLHD-434
(Rev 12/90)

STREET DELIVERY REPORT
SPREAD REPORT

PAGE NO. _____

PROJECT: SOUTH FORK SMITH RIVER ROAD CAP 4 112-1 (1)

ITEM NO.: 40301-

DATE 11/11/10

SOURCE NO.: CROCKETT BAR

Pay Lot No.: SITE A

SHEET NO. 1 OF 1

LOAD NO.	TRUCK NO.	TIME	STATION TO ± STATION	REMARKS	LOAD NO.	TRUCK NO.	TIME	STATION TO STATION	REMARKS
1	10	951 AM	101+60 -	102+90 RT					
2	9	1005	102+60 -	105+25 RT					
3	4	1023	105+10 -	107+80 RT					
4	69	1041	107+80 -	110+75 RT					
5	54	1101	110+75 -	113+00 RT					
6	10	1214 PM	101+60 -	104+00 LT					
7	9	1232	104+00 -	105+30 LT					
8	4	1241	105+30 -	107+90 LT					
9	69	110	107+90 -	110+60 LT					
10	54	136	110+60 -	113+00 LT					

ROUND 1

ROUND 2

CERTIFICATION

I CERTIFY THAT THE ABOVE LOADS WERE PLACED AS SHOWN AND ARE THE SOLE BASIS FOR PAYMENT.

Contractor signature

[Handwritten Signature]
RUS

Received by:

Date

11/11/10
wflhd434.wmf

Date: 11-11-10

TIDEWATER CONTRACTORS, INC.

Sheet # 1

P.O. Box 1956 • Brookings, OR 97415 • 541-469-5341

CCB #29995

DAILY RECORD OF PLATFORM SCALE WEIGHTS

CUSTOMERS NAME DT/H-68-09-C-00010

JOB or PROJECT # 1382 # 40301000

CONTACT S. Fork Smith River Rd. site A.

SUPPLY SOURCE: CROCKETT BAR

MATERIAL WEIGHED Hot A/C

Load	TIME	Truck # Driver	GROSS WEIGHT						TARE WEIGHT				NET WEIGHT				TONAGE	ACCU TONAGE	TICKET #				
1	9:25	10	7	6	3	0	0	3	5	0	0	0	4	1	3	0	0	20.65	20.65	198399			
2	9:35	9	7	6	1	8	0	0	3	2	7	8	0	0	4	3	4	6	0	21.70	42.35	401	
3	9:50	4	7	8	9	4	0	0	3	2	9	8	0	0	4	5	9	6	0	22.98	65.93	402	
4	10:05	69	7	8	6	0	0	0	3	4	1	2	0	0	4	4	4	8	0	22.24	87.57	404	
5	10:20	54	8	1	9	4	0	0	3	7	6	0	0	0	4	4	3	4	0	22.17	109.74	405	
6	11:50	10	7	9	2	4	0	0	0	3	5	0	0	0	0	4	4	2	4	0	22.12	131.86	406
7	12:00	9	7	8	7	4	0	0	0	3	2	7	8	0	0	4	5	9	6	0	22.98	154.84	407
8	12:15	4	8	0	2	4	0	0	0	3	2	9	8	0	0	4	7	2	6	0	23.63	178.47	408
9	12:25	69	7	9	6	4	0	0	0	3	4	1	2	0	0	4	4	9	2	0	22.46	200.93	409
0	12:40	54	8	3	1	8	0	0	3	7	6	0	0	0	4	5	5	8	0	22.79	223.72	410	
SUBTOTAL																							
1																							
2																							
3																							
4																							
5																							
6																							
7																							
8																							
9																							
0																							
SUBTOTAL																							
1																							
2																							
3																							
4																							
5																							
6																							
7																							
8																							
9																							
0																							
SUBTOTAL																							
1																							
2																							
3																							
4																							
5																							
6																							
7																							
8																							
9																							
0																							
SUBTOTAL																							
FORWARD																							

Marilene Chapin

DEPUTY PUBLIC WEIGHMASTER

TIDEWATER CONTRACTORS INC.

DATE 11-11-10
 JOB NAME & # / PHASE # # 1382 - S.fork Smith River Rd. Site A
 CUSTOMER NAME DTFH-68-09-C-00010
 CONTRACT # 40301000
 SCALE LOCATION CROCKETT BAR

TRUCK #	DRIVER	PUC WEIGHT	TIME/TARE		TIME /TARE	PLATE
G-Allen	10-Bobby		8:00	35000		SP95076
G-Allen	9-Sam		8:05	32780		VP44261
G-Allen	4-Mike		8:10	32980		VP44260
Sunrise	69-Ron		8:30	34120		5Z57983
TWC	54-Dan		8:45	37600		YAC2866

FINAL LOAD COUNT 10

DAILY TOTAL 223.72

SIGNATURE MARILIND CHAPIN

hot asphalt pavement support documentation

CA PFH 112-1(1) South Fork Smith River Road

MARSHALL DAILY YIELD (11/11/10)

	LT	RT	Avg Max Rice	Avg Density
Begin Sta	101+60	101+60		
End Sta	113+00	113+00	158.8	92.1
Legnth paved (ft)	1,140	1,140		
Avg Width (ft)	10.50	11.50		
Depth (ft)	0.125	0.125		
CuFt	1,496.3	1,638.8		
Total CuFt	3,135.0			
Compacted wt, Tons	229.25			
Ticket tons	223.72			
Yield	0.98			
CUMULATIVE TO DATE	2,624.95	TONS		
Plan Qty	10,890.0	TONS		
% Complete	24.10			



U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
Central Federal Lands Highway Division
12300 W. Dakota Ave. Lakewood, Colorado 80228

Item Quantity Pay Note Sheet

Date:

Project Number: Project Name:

Account:

Pay Note Information:

Pay Item #: Item Description: Pay Unit:

Item Line #: Item Type:

Pay Note #: Pay Period:

Pay Note Entry:

Work Start Date: Work End Date:

Location/Description:

On 10/25/10 Tack Coat was applied from Station 10+00 to Station 12+50 RT (11' wide).

Remarks/Calculations:

Per FP-03 412.08, measure tack coat including water added for dilution.
Weigh Out = 6.28 TONS on 10/22/10, Weigh Back = 6.03 TONS on 10/25/10*
6.28 TONS - 6.03 TONS = 0.25 TONS

*See supporting weigh tickets

Support Documentation/References:

Weigh Tickets with SS-1H certification, Tack Coat Application Calculation,

Measured By:

TOTAL QUANTITY: 0.25 (TONS)

Interim Measurement Final Measurement

By signature below, I hereby certify that the measurements and calculations shown above are correct to the best of my knowledge and that the quantity being measured is subject to direct payment for the identified item under contract.

Contractor Representative (Print):

Date:

Contractor Representative (Signature):

Approved by FHWA Representative (Print):

Date:

Approved by FHWA Representative (Signature):

Checked by FHWA Representative (Signature):

Date:

tack coat support documentation

8465



HILLS MATERIALS COMPANY

P.O. Box 2320 - Rapid City, SD 57709
 Phone: (605) 394-3300 • Fax: (605) 341-3446

DELIVERY TICKET

017503

Date	Time	P.O. No.	Dispatcher	Location	Ticket No.
10/22/2010	10:10:44	50462.1301	LORI	8-RC EMULSION	017503

Customer	Destination / Description	Gross:
670703 RED WILK DEERFIELD RD HILL CITY SD 57769		37220
		Tare: 24660
		Net: 12560
		Tons: 6.28

Code	Description	Qty.	Unit	Price	Amount
104	HOT WATER	3.03	TONS		
		727.23	GALLONS		
235	SS-1H	3.25	TONS		
		762.91	GALLONS		
* 1 TO 1 * *WEIGHOUT*					
LOADING TEMP 180 F SPEC. GRAV. 102 VISCOSITY 35 SSF @ 77 F					

Order #	1	Lds Today	1	Tank #	21	Sales Total	
Lds Rec'd	2	Qty Today	1.59	Res. Asph.	62.00	Tax	%
Qty Rec'd	4.10			Wt./Gal.	8.333 8.520	Sub Total	
Hauler	1-HILLS MATERIALS COMPANY	Truck #	803	Desc	54.803 YELLOW	Driver	EDDIE
						Credits	
						Total Due	

Notes	Goods Received By
THIS SHIPMENT OF ASPHALTIC MATERIAL COMPLIES WITH SD DOT/FHWA SPECIFICATIONS. Emergency contact phone #s: (605)394-5220 or (605) 394-4139	

CUSTOMER COPY
 CUSTOMER COPY

tack coat support documentation

208497



HILLS MATERIALS COMPANY

P.O. Box 2320 - Rapid City, SD 57709
 Phone: (605) 394-3300 • Fax: (605) 341-3446

DELIVERY TICKET
 017598

Date	Time	P.O. No.	Dispatcher	Location	Ticket No.
10/25/2010	08:08:01	50.462.1301	LORI	8 RC EMULSION	017598

Customer	Destination / Description	Gross:
670703 RED WILK DEERFIELD RD HILL CITY SD 57769	STA 10+00 to 12+50	36720
		Tare: 24600
		Net: 12060
		Tons: 6.03

Code	Description	Qty.	Unit	Price	Amount
104	HOT WATER	-2.91	TONS		
		-698.43	GALLONS		
235	SS-1H	-3.12	TONS		
		-732.39	GALLONS		
* 1 TO 1 *					
"WEIGHBACK (END)" "DIFF. TRUCK"					
				LOADING TEMP 180 F	SPEC. GRAV. 102
				VISCOSITY 35 SSF @ 77 F	

Order #	1	Lds Today		Tank #	21	Sales Total	
Lds Rec'd	2	Qty Today	-3.12	Res. Asph.	62.00	Tax	%
Qty Rec'd	0.98			Wt./Gal.	8.333	Sub Total	
					8.520	Credits	
						Total Due	
Hauler	Truck #	Desc	Driver				
1-HILLS MATERIALS COMPANY	803	54 803 YELLOW	EDDIE/PA				

Notes	Goods Received By
THIS SHIPMENT OF ASPHALTIC MATERIAL COMPLIES WITH SD DOT/FHWA SPECIFICATIONS. Emergency contact phone #s: (605)394-5220 or (605) 394-4139	

CUSTOMER COPY

MADE BY BB DATE 10/25/10

PROJECT SD PFK 17-1(6)

CHECKED BY DA DATE 10/26/10

Hill City to Lead

CALCULATIONS FOR Tack Coat Application

SHEET NO. 1 OF 1

Per FP-03, section 412.06, apply the asphalt according to Subsection 409.08 at a rate of 0.03 to 0.15 gallons per square yard.

Check Application Rate

- Tack Coat applied from STA 10+00 to 12+50 ON RT side of roadway, width = 11 feet.
- Tack Coat = 233 Gal/TON
- Weigh Out = 3.25 TONS, Weigh Back = 3.12 TONS

$$3.25 \text{ TONS} - 3.12 \text{ TONS} = 0.13 \text{ TONS}$$

$$0.13 \text{ TONS} \times 233 \frac{\text{Gal}}{\text{TON}} = 30.29 \text{ GAL}$$

$$250' \times 11' = 2,750 \text{ SQFT} = 305.56 \text{ SQYD}$$

$$\text{Application Rate} = \frac{30.29 \text{ GAL}}{305.56 \text{ SQYD}} = 0.099 \text{ GAL/SQYD}$$

$$0.03 \text{ gal/sqyd} < 0.099 \text{ gal/sqyd} < 0.15 \text{ gal/sqyd}$$

MEETS SPECIFICATION

Section 10: GALLON ITEMS

15801 Watering for Dust Control	Page 153
63404 Pavement Marking	Page 155

GENERAL NOTE:

The items shown here are examples only - all measurement, documentation, and payment will conform to the project contract requirements regardless of what is shown here. Included here are examples of some of the many documentation types that may be required. Often documentation such as certifications and qualifications may be submitted and accepted once and then referenced accordingly instead of attaching additional copies for each pay note or payment period. Many documentation items are required prior to production, delivery, or placement; required documentation should be provided at the appropriate time and not necessarily at time of payment.

NOTE ON TON ITEMS:

Items paid by the gallon are either measured, metered, or commercial volumes. Please refer to the FP, the Special Contract Requirements, and plans for your project for detailed instructions prior to submitting any pay notes. If gallons will be measured or metered onsite, advance consideration and discussion should occur to ensure that the methods, equipment, and documentation will be acceptable.



U.S DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
Central Federal Lands Highway Division
12300 W. Dakota Ave. Lakewood, Colorado 80228

Item Quantity Pay Note Sheet

Date:

Project Number: Project Name:

Account:

Pay Note Information:

Pay Item #: Item Description: Pay Unit:

Item Line #: Item Type:

Pay Note #: Pay Period:

Pay Note Entry:

Work Start Date: Work End Date:

Location/Description:

Remarks/Calculations:

Support Documentation/References:

Measured By:

TOTAL QUANTITY:

Interim Measurement Final Measurement

By signature below, I hereby certify that the measurements and calculations shown above are correct to the best of my knowledge and that the quantity being measured is subject to direct payment for the identified item under contract.

Contractor Representative (Print):

Date:

Contractor Representative (Signature):

Approved by FHWA Representative (Print):

Date:

Approved by FHWA Representative (Signature):

Checked by FHWA Representative (Signature):

Date:

watering for dust control support documentation

200(2) WATER LOG**JULY 2011**

Date	Ticket #	Begin Meter	End Meter	Quantity (Mgal)	Tank Size	Pay Quantity	ck	Location/Use
9/1/2011	388	21.900	25.300	3.400	4.000	0.000	√	Quarry
		25.300	28.800	3.500	4.000	0.000	√	Quarry
09/12/11	385	74.400	77.700	3.300	4.000	3.300	√	Base/Rollers
"	"	77.700	80.800	3.100	4.000	3.100	√	Rollers
09/13/11	384	80.800	84.200	3.400	4.000	3.400	√	Rollers
09/14/11	383	84.200	87.200	3.000	4.000	0.000	√	Quarry
"	"	87.200	90.200	3.000	4.000	0.000	√	Quarry
09/15/11	382	90.700	93.400	2.700	4.000	0.000	√	Quarry
"	"	799.000	802.000	3.000	4.000	0.000	√	Quarry
09/19/11	381	15.300	18.500	3.200	4.000	3.200	√	Road
09/21/11	380	18.490	23.000	4.510	4.000	3.700	√	Clean road
"	"	23.000	26.060	3.060	4.000	3.060	√	Clean road
"	"	26.060	30.000	3.940	4.000	3.940	√	Clean road
09/23/11	379	30.000	33.600	3.600	4.000	3.600	√	Clean riprap
"	"	33.600	37.450	3.850	4.000	3.850	√	Clean riprap
07/31/11	Tons paving in August		6645.900	-0.920		-6.114		Deduct 0.92 gal/ton paving

25.04

NOTE: Water placed at the quarry was not paid for per direction of the CO. Watering of the quarry was done per the Contractor.



U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
Central Federal Lands Highway Division
12300 W. Dakota Ave. Lakewood, Colorado 80228

Item Quantity Pay Note Sheet

Date: 08/06/10

Project Number: SD PRA BADL 10(5) Project Name: Badlands Loop Road

Account: Schedule B

Pay Note Information:

Pay Item #: 63404-0200 Item Description: Pavement markings, Type B (white) Pay Unit: GAL

Item Line #: N/A (for EEBACS only) Item Type: N/A (for EEBACS only)

Pay Note #: 174 Pay Period: 3

Pay Note Entry:

Work Start Date: 08/02/10 Work End Date: 08/06/10

Location/Description:

- (1) Prairie Winds on 08-02-2010 - 3.0 GAL*
- (2) Burns Basin on 08-02-2010 - 3.5 GAL*
- (3) Doors and Windows on 08-03-2010 - 1.0 GAL *
- (4) Homestead on 08-04-2010 - 3.0 GAL*
- (5) Conata on 08-04-2010 - 2.5 GAL*
- (6) Pinnacles on 08-04-2010 - 2.5 GAL* *See pavement marking computations

Remarks/Calculations:

Total quantity (GAL) = 3.0 + 3.5 + 1.0 + 3.0 + 2.5 + 2.5 = 15.5GAL

Support Documentation/References:

Pavement marking computations, Paint certification (see page 94)

Measured By: Joe the Inspector & Bob the Contractor

TOTAL QUANTITY: 15.5 (GAL)

Interim Measurement Final Measurement

By signature below, I hereby certify that the measurements and calculations shown above are correct to the best of my knowledge and that the quantity being measured is subject to direct payment for the identified item under contract.

Contractor Representative (Print): Bob the Contractor

Date: 08/06/10

Contractor Representative (Signature):

Approved by FHWA Representative (Print): Joe the Inspector

Date: 08/07/10

Approved by FHWA Representative (Signature):

Checked by FHWA Representative (Signature): Jane the Project Engineer

Date: 08/07/10

pavement marking (gal) support documentation

PRAIRIE WINDS

$$935 \text{ LF} \times \left[4'' \times \frac{1 \text{ FT}}{12''} \right] = 308 \text{ FT}^2$$

$$\text{* SPRAY RATE} = 103 \frac{\text{FT}^2}{\text{GAL}}$$

$$308 \text{ FT}^2 \times \frac{1 \text{ GAL}}{103 \text{ FT}^2} = 3.0 \text{ GALLONS}$$

$$\text{TOTAL GALLONS} = 3.0 \text{ GALLONS}$$

BURNS BASIN

$$1090 \text{ LF} \times \left[4'' \times \frac{1 \text{ FT}}{12''} \right] = 360 \text{ FT}^2$$

$$\text{* SPRAY RATE} = 103 \frac{\text{FT}^2}{\text{GAL}}$$

$$360 \text{ FT}^2 \times \frac{1 \text{ GAL}}{103 \text{ FT}^2} = 3.5 \text{ GALLONS}$$

$$\text{TOTAL GALLONS} = 3.5 \text{ GALLONS}$$

DOORS AND WINDOWS

$$64 \text{ LF} \times \left[4.5'' \times \frac{1 \text{ FT}}{12 \text{ INCH}} \right] = 24 \text{ FT}^2$$

• CROSS LINES

$$10 \text{ LINES} \times 7.5' \text{ (EACH)} \times 1' \text{ (WIDTH)} = 75 \text{ FT}^2$$

$$\text{-TOTAL COVERAGE} = 99 \text{ FT}^2$$

$$\text{* SPRAY RATE} = \approx 103 \frac{\text{FT}^2}{\text{GAL}}$$

$$99 \text{ FT}^2 \times \frac{1 \text{ GAL}}{103 \text{ FT}^2} = 1.0 \text{ GAL}$$

HOMESTEAD

$$929 \text{ LF (PER PLAN)} \times \left[4'' \times \frac{1 \text{ FT}}{12''} \right] = 309.7 \text{ FT}^2$$

$$\ast \text{ SPRAY RATE} = \frac{103 \text{ FT}^2}{\text{GAL}}$$

$$309.7 \text{ FT}^2 \times \frac{1 \text{ GAL}}{103 \text{ FT}^2} = 3.0 \text{ GALLONS}$$

CONATA

\ast NOT INCLUDING RV LINE

$$780 \text{ LF} \times \left[4'' \times \frac{1 \text{ FT}}{12''} \right] = 257.5 \text{ FT}^2$$

$$\ast \text{ SPRAY RATE} = \frac{103 \text{ FT}^2}{\text{GAL}}$$

$$257.5 \text{ FT}^2 \times \frac{1 \text{ GAL}}{103 \text{ FT}^2} = 2.5 \text{ GALLONS}$$

PINNACLES

\ast NOT INCLUDING HANDICAP AREA W/ CROSS HATCH
AND A FEW SMALL LINES

$$790 \text{ LF} \times \left[4'' \times \frac{1 \text{ FT}}{12''} \right] = 263.33 \text{ FT}^2$$

$$\ast \text{ SPRAY RATE} = \frac{103 \text{ FT}^2}{\text{GAL}}$$

$$263.33 \text{ FT}^2 \times \frac{1 \text{ GAL}}{103 \text{ FT}^2} = 2.5 \text{ GALLONS}$$

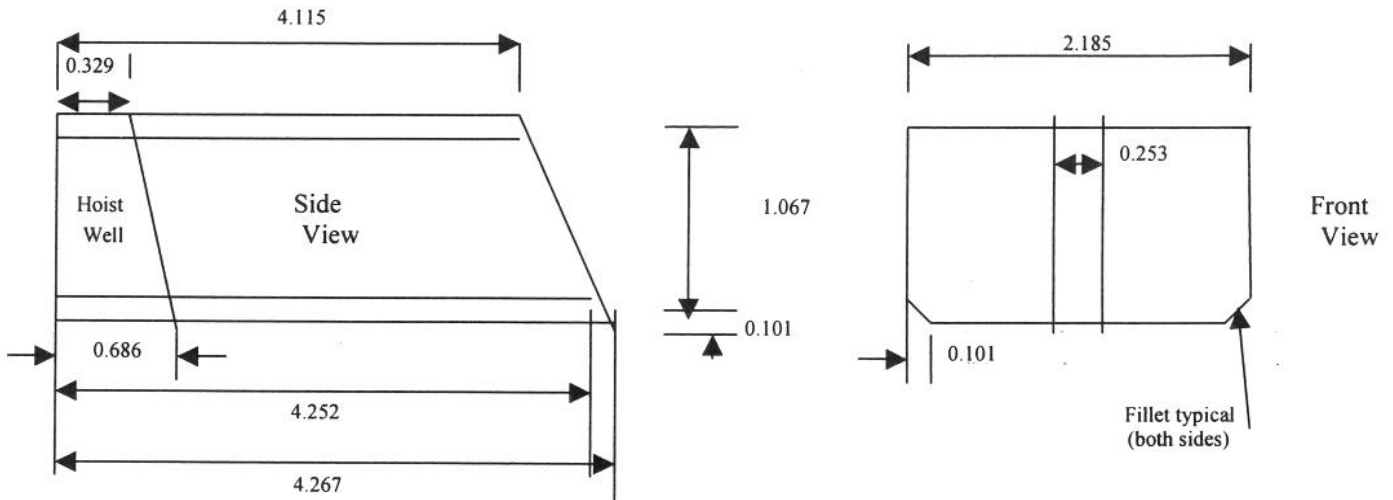
Appendix

A. Sample Haul Vehicle Volume Calculations	Page 158
B. Sample Water Truck Volume Calculations	Page 160
C. Volume Correction Factors for Asphalt	Page 161
D. Metric Conversion Factors.....	Page 162
E. Example of Contractor's Invoice and Support Data	Page 163
F. QL-Pay Example 30101	Page 165
G. QC Plan Example.....	Page 168

Truck Measurement Example

Truck No. ? (tractor)
 Trailer No. ? (belly dump)
 License No. XXXXXX

Project Name XXXXXXXXXXXXXXX
 Project Number XX XXX XXXX (X)



(dimensions are meters unless otherwise noted)

Volume

$$\frac{4.115 + 4.267}{2} \times 2.185 \times 1.067 = 9.771$$

Less Hoist Well

$$\frac{0.686 + 0.329}{2} \times 0.253 \times 1.067 = -0.137 \text{ (minus)}$$

Less Fillets

$$\frac{0.101 \times 0.101}{2} \times \frac{4.252 + 4.267}{2} \times 2 = -0.043 \text{ (minus)}$$

$$\text{Total Volume} = 9.591 \text{ m}^3$$

NOTE

The above computations are for illustration only, and not necessarily part of survey notes. However, to ensure measurements are adequate, the surveyor might make at least rough computations for complicated shapes.

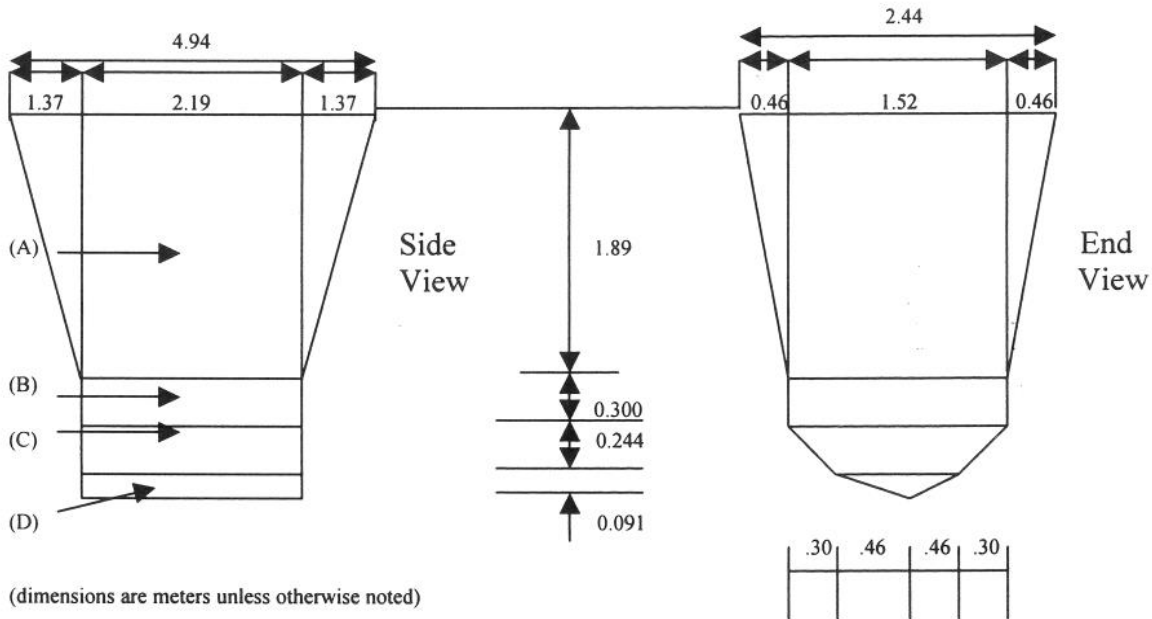
Composed By: _____

Checked By: _____

Truck Measurement Example

Truck No. ? (tractor)
Trailer No. ? (belly dump)

Project Name XXXXXXXXXXXXXXXX
Project Number XX XXX XXXX (X)



Volume (A) (Use prismoidal formula, $V = \frac{h}{b} (A_1 + (4A_m + A_2))$)

$h = 1.89$

$A_1 = 4.94 \times 2.44 = 12.05$

$A_2 = 2.19 \times 1.52 = 3.33$

$A_m = \frac{(4.94 + 2.19) \times (2.44 + 1.52)}{2} = 7.07$

$V = \frac{1.89}{b} (12.05 + (4 \times 7.07) + 3.33) = 13.753$

Volume (B)

$V = 2.19 \times 1.52 \times 0.30 = 0.999$

Volume (C)

$V = 2.19 \times \frac{1.52 + 0.92}{2} \times 0.244 = 0.652$

Volume (D)

$V = 2.19 \times \frac{0.92}{2} \times 0.091 = 0.092$

Total Volume = 15.496 m³

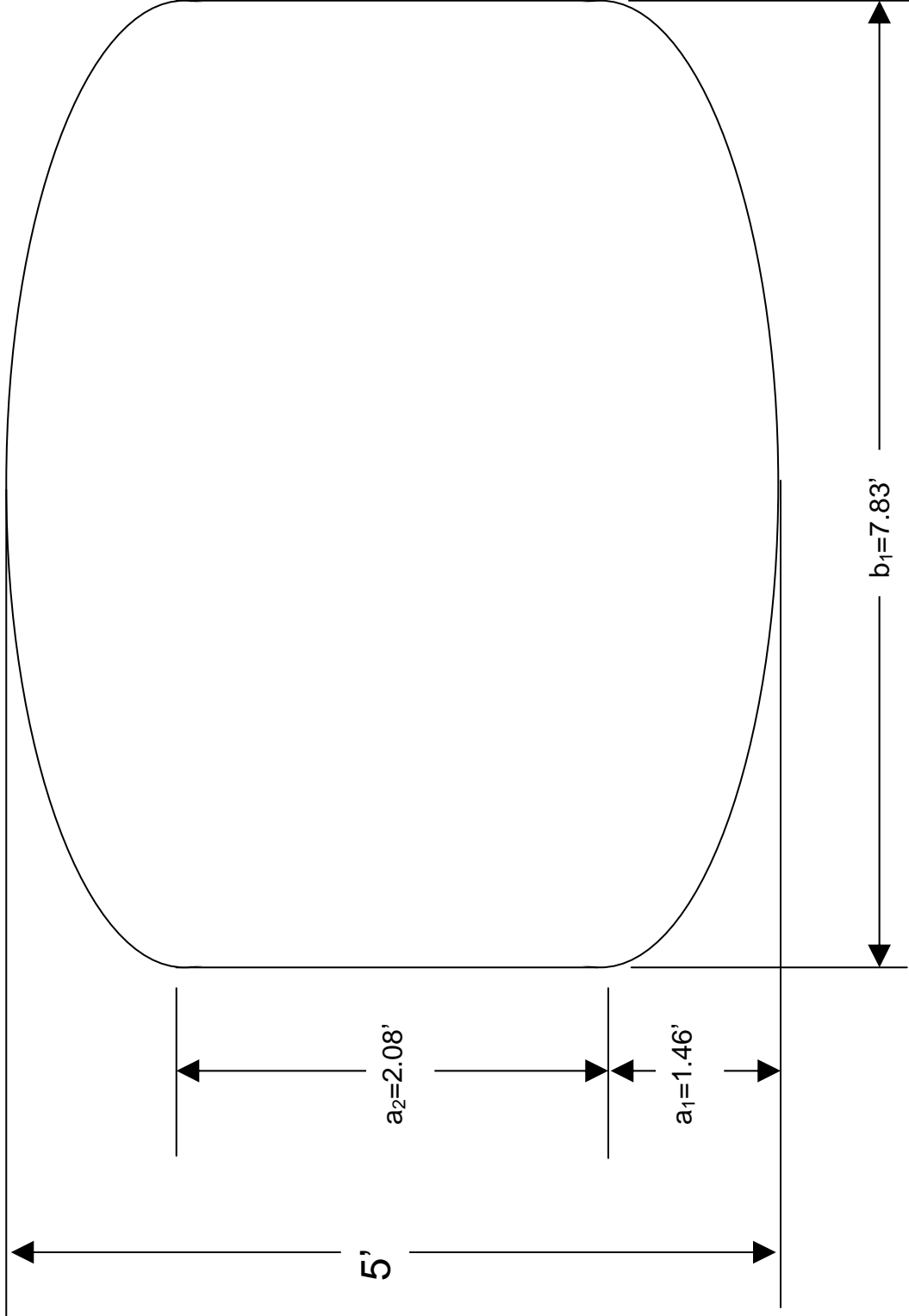
Composed By: _____

Checked By: _____

Water Truck Dimensions

142

Date _____



$$A_1 = \pi \cdot a_1 \cdot b_1$$

$$= \pi \cdot (1.46) \cdot (7.83/2)$$

$$= 17.98 \text{ SF}$$

$$A_2 = a_2 \cdot b_1$$

$$= (2.08) \cdot (7.83)$$

$$= 16.29 \text{ SF}$$

$$A_1 + A_2 = 34.27 \text{ SF}$$

$$\text{Volume} = \text{Area} \times \text{Length}$$

$$= (34.27) (17.25)$$

$$= 591.16 \text{ FT}^3$$

$$1 \text{ ft}^3 = 7.48 \text{ Gallons}$$

$$\text{Total Volume} = 4421.9 \text{ gal}$$

$$\text{Total Volume} = 4.4 \text{ MGAL}$$

Truck Measure Agreement

Dated _____

FHWA Representative

Contractor Representative

$$b_1 = 7.83'$$

$$\text{Length} = 17.25'$$

TEMPERATURE-VOLUME CORRECTIONS FOR ASPHALTIC MATERIALS (CUSTOMARY UNITS)

GROUP 0 – SPECIFIC GRAVITY AT 60°F OF 0.850 TO 0.966

LEGEND: t = Observed Temperature in Degrees Fahrenheit

M = Multiplier for Correcting Oil Volumes to the Basis of 60°F

t	M	t	M	t	M	t	M	t	M
0	1.0241	50	1.0040	100	0.9842	150	0.9647	200	0.9456
1	1.0237	51	1.0036	101	0.9838	151	0.9643	201	0.9452
2	1.0233	52	1.0032	102	0.9834	152	0.9639	202	0.9448
3	1.0229	53	1.0028	103	0.9830	153	0.9635	203	0.9444
4	1.0225	54	1.0024	104	0.9826	154	0.9632	204	0.9441
5	1.0221	55	1.0020	105	0.9822	155	0.9628	205	0.9437
6	1.0217	56	1.0016	106	0.9818	156	0.9624	206	0.9433
7	1.0213	57	1.0012	107	0.9814	157	0.9620	207	0.9429
8	1.0209	58	1.0008	108	0.9810	158	0.9616	208	0.9425
9	1.0205	59	1.0004	109	0.9806	159	0.9612	209	0.9422
10	1.0201	60	1.0000	110	0.9803	160	0.9609	210	0.9418
11	1.0197	61	0.9996	111	0.9799	161	0.9605	211	0.9414
12	1.0193	62	0.9992	112	0.9795	162	0.9601	212	0.9410
13	1.0189	63	0.9988	113	0.9791	163	0.9597	213	0.9407
14	1.0185	64	0.9984	114	0.9787	164	0.9593	214	0.9403
15	1.0181	65	0.9980	115	0.9783	165	0.9589	215	0.9399
16	1.0177	66	0.9976	116	0.9779	166	0.9585	216	0.9395
17	1.0173	67	0.9972	117	0.9775	167	0.9582	217	0.9391
18	1.0168	68	0.9968	118	0.9771	168	0.9578	218	0.9388
19	1.0164	69	0.9964	119	0.9767	169	0.9574	219	0.9384
20	1.0160	70	0.9960	120	0.9763	170	0.9570	220	0.9380
21	1.0156	71	0.9956	121	0.9760	171	0.9566	221	0.9376
22	1.0152	72	0.9952	122	0.9756	172	0.9562	222	0.9373
23	1.0148	73	0.9948	123	0.9752	173	0.9559	223	0.9369
24	1.0144	74	0.9944	124	0.9748	174	0.9555	224	0.9365
25	1.0140	75	0.9940	125	0.9744	175	0.9551	225	0.9361
26	1.0136	76	0.9936	126	0.9740	176	0.9547	226	0.9358
27	1.0132	77	0.9932	127	0.9736	177	0.9543	227	0.9354
28	1.0128	78	0.9929	128	0.9732	178	0.9539	228	0.9350
29	1.0124	79	0.9925	129	0.9728	179	0.9536	229	0.9346
30	1.0120	80	0.9921	130	0.9725	180	0.9532	230	0.9343
31	1.0116	81	0.9917	131	0.9721	181	0.9528	231	0.9339
32	1.0112	82	0.9913	132	0.9717	182	0.9524	232	0.9335
33	1.0108	83	0.9909	133	0.9713	183	0.9520	233	0.9331
34	1.0104	84	0.9905	134	0.9709	184	0.9517	234	0.9328
35	1.0100	85	0.9901	135	0.9705	185	0.9513	235	0.9324
36	1.0096	86	0.9897	136	0.9701	186	0.9509	236	0.9320
37	1.0092	87	0.9893	137	0.9697	187	0.9505	237	0.9316
38	1.0088	88	0.9889	138	0.9693	188	0.9501	238	0.9313
39	1.0084	89	0.9885	139	0.9690	189	0.9498	239	0.9309
40	1.0080	90	0.9881	140	0.9686	190	0.9494	240	0.9305
41	1.0076	91	0.9877	141	0.9682	191	0.9490	241	0.9301
42	1.0072	92	0.9873	142	0.9678	192	0.9486	242	0.9298
43	1.0068	93	0.9869	143	0.9674	193	0.9482	243	0.9294
44	1.0064	94	0.9865	144	0.9670	194	0.9478	244	0.9290
45	1.0060	95	0.9861	145	0.9666	195	0.9475	245	0.9286
46	1.0056	96	0.9857	146	0.9662	196	0.9471	246	0.9283
47	1.0052	97	0.9854	147	0.9659	197	0.9467	247	0.9279
48	1.0048	98	0.9850	148	0.9655	198	0.9463	248	0.9275
49	1.0044	99	0.9846	149	0.9651	199	0.9460	249	0.9272

SI⁽¹⁾ (METRIC) TO U.S. CUSTOMARY CONVERSION FACTORS (approximate)				
Symbol	When You Know	Multiply By	To Find	Symbol
LENGTH				
µm	micrometers	3.9 x 10 ⁻⁵	inches	in
mm	millimeters	0.039	inches	in
m	meters	3.28	feet	ft
m	meters	1.09	yards	yd
km	kilometers	0.621	miles	mi
AREA				
mm ²	square millimeters	0.0016	square inches	in ²
m ²	square meters	10.764	square feet	ft ²
m ²	square meters	1.195	square yards	yd ²
ha	hectares	2.47	acres	ac
km ²	square kilometers	0.386	square miles	mi ²
VOLUME				
mL	milliliters	0.034	fluid ounces	fl oz
L	liters	0.264	gallons	gal
m ³	cubic meters	35.31	cubic feet	ft ³
m ³	cubic meters	1.308	cubic yards	yd ³
MASS				
g	grams	0.035	ounces	oz
kg	kilograms	2.202	pounds	lb
Mg	megagrams	1.1023	short tons	T
(or "t")	(or "metric ton")		(2000 lb)	
TEMPERATURE (exact)				
°C	Celsius temperature	1.8C +32	Fahrenheit temperature	°F
ILLUMINATION				
lx	lux	0.0929	foot-candles	fc
cd/m ²	candela/m ²	0.2919	foot-Lamberts	fl
MISCELLANEOUS				
J	joule	0.7376	foot-poundforce	ft-lbf
N	newtons	0.225	poundforce	lbf
kPa	kilopascals	0.145	poundforce per square inch	lbf/in ²

(1) SI is the symbol for the International System of Units.

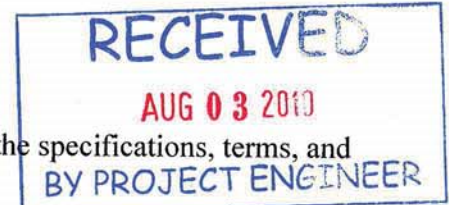
Appropriate rounding should be made to comply with Section 4 of ASTM E 380.

Project No.: ID PFH CDP 67(2) **Project Name:** GRANGEMONT ROAD

Contract No.: DTFH 70-10-C-00009 **Award date:** APRIL 28, 2010

The certification, Subcontractor listing, and attached itemized request for payment of \$326,286.11 serves as the contractor's invoice for work performed during the period indicated below, and under the contract cited.

CONTRACTOR CERTIFICATION
[FAR Clause 52.232-5 & FAR 52.232-27]



I hereby certify, to the best of my knowledge and belief, that:

- (1) The amounts requested are only for performance in accordance with the specifications, terms, and conditions of the contract;
- (2) Payments to subcontractors and suppliers have been made from previous payments received under the contract, and timely payments will be made from the proceeds of the payment covered by this certification, in accordance with subcontract agreements and the requirements of Chapter 39 of Title 31, United States Code; and
- (3) This request for progress payments does not include any amounts which the prime contractor intends to withhold or retain from a subcontractor or supplier in accordance with the terms and conditions of the subcontract.

Pave Earth First, Inc.
Contractor Company Name

Aug 2, 2010
Date Signed

Submitted by: Name A. Lincoln
Print Name and Title

2
Estimate Number

Submitted by: A. Lincoln
Signature

July 1, 10 through July 31, 10
Dates for Progress Payment Period

Subcontractor	SF1413 & WFLHD 130 Submitted Y/N	Total Amount of Subcontract	Previous Payments	Amount Included in this Estimate*	Cumulative Retent through this Estimate
S by SW Survey	Y	107,305.00	\$39,434.59	\$39,434.59	0
We Flag, Inc.	Y	198,522.50	\$4,410.00	\$19,209.00	0
Erosion Control, Inc.	Y	15,083.68	0.00	\$13,349.70	0
Testers-R-Us, LLC.	Y	48,573.00	0.00	\$6,510.00	0

* Excludes any retent included in the right-most column. Check if continued on additional page

Grangemont Road, ID PFH 67(2)

DIFH70-10-C-00009

Estimate Number 2

Pave Earth First

P.O. Box 5

Somewhere, ID 53852

Office: (208) 555-5552

Paynote Information:

Bid Item	Description	Quantity	Unit	Unit Price	Total	Previous Quant.	Previous Amount	Month Quantity	Month Revenue	To Date Quantity	To Date Revenue	Quantity Remaining	Revenue Remainder
1	15101-0000 Mobilization	1	LS	\$135,561.44	\$135,561.44	0.14	\$18,978.60	0.50	\$67,780.72	0.64	\$86,759.32	0.36	\$48,802.12
2	15201-0000 Construction Survey and Staking	1	LS	\$112,670.25	\$112,670.25	0.35	\$39,434.59	0.35	\$39,434.59	0.70	\$78,869.18	0.30	\$33,801.08
3	15301-0000 Contractor Quality Control	1	LS	\$69,382.00	\$69,382.00	0	\$0.00	0.05	\$3,469.10	0.05	\$3,469.10	0.95	\$65,912.90
4	15401-0000 Contractor Testing	1	LS	\$54,250.00	\$54,250.00	0	\$0.00	0.12	\$6,510.00	0.12	\$6,510.00	0.88	\$47,740.00
5	15705-1500 Soil Erosion Control, Sediment Wattle	5,920	LNT	\$2.34	\$13,852.80	0	\$0.00	5,700	\$13,338.00	5,700	\$13,338.00	220	\$514.80
6	15801-0000 Watering for Dust Control	3,000	MGAL	\$2.00	\$6,000.00	0	\$0.00	0	\$0.00	0	\$0.00	3,000	\$6,000.00
7	20301-2400 Removal of Signs	74	EA	\$15.00	\$1,110.00	0	\$0.00	0	\$0.00	0	\$0.00	74	\$1,110.00
8	20302-1300 Removal of Guardrail, Concrete Barrier	2,600	LNT	\$5.00	\$13,000.00	0	\$0.00	0	\$0.00	0	\$0.00	2,600	\$13,000.00
9	20402-0000 Subexcavation	250	CUYD	\$17.00	\$4,250.00	0	\$0.00	0	\$0.00	0	\$0.00	250	\$4,250.00
10	20410-0000 Select Borrow	250	CUYD	\$31.56	\$7,890.00	0	\$0.00	0	\$0.00	0	\$0.00	250	\$7,890.00
11	20703-0000 GeoGrid	550	SQYD	\$5.50	\$3,025.00	0	\$0.00	0	\$0.00	0	\$0.00	550	\$3,025.00
12	30302-1000 Ditch Reconditioning	17,100	LNT	\$0.53	\$9,063.00	0	\$0.00	9,990	\$5,294.70	9,990	\$5,294.70	7,110	\$3,768.30
13	30306-4000 Pulverization, 8in depth	268,000	SQYD	\$0.74	\$198,320.00	0	\$0.00	0	\$0.00	0	\$0.00	268,000	\$198,320.00
14	30405-1100 Cement Aggregate Stabilization, In-place Aggregate, 8in	268,000	SQYD	\$0.57	\$152,760.00	0	\$0.00	0	\$0.00	0	\$0.00	268,000	\$152,760.00
15	30416-0000 Cement	3,350	TON	\$127.10	\$425,785.00	0	\$0.00	0	\$0.00	0	\$0.00	3,350	\$425,785.00
16	30806-0000 Bedding and Backfill Aggregate	150	TON	\$12.17	\$1,825.50	0	\$0.00	0	\$0.00	0	\$0.00	150	\$1,825.50
17	40101-1000 Superpave Pavement: 3/4" Nominal Max 0.3-<3 Mil ESAL	46,400	TON	\$62.33	\$2,892,112.00	0	\$0.00	0	\$0.00	0	\$0.00	46,400	\$2,892,112.00
18	40105-3000 Antistripping Additive, Type 3	465	TON	\$210.00	\$97,650.00	0	\$0.00	0	\$0.00	0	\$0.00	465	\$97,650.00
19	41101-1000 Prime Coat, Grade CMS-2	0	TON	\$0.00	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00
20	41105-0000 Blotter	2,000	TON	\$0.00	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	2,000	\$0.00
21	41201-1000 Tack Coat Grade CSS-1, CSS-1H, SS-1, or SS-1H	236	TON	\$350.72	\$82,769.92	0	\$0.00	0	\$0.00	0	\$0.00	236	\$82,769.92
22	60901-2100 Curb, Asphalt, 4 inch depth	350	LNT	\$8.35	\$2,922.50	0	\$0.00	0	\$0.00	0	\$0.00	350	\$2,922.50
23	61701-1200 Guardrail System G4, Type 2, Class A Steel Posts	3,650	LNT	\$29.00	\$105,850.00	0	\$0.00	0	\$0.00	0	\$0.00	3,650	\$105,850.00
24	61702-0600 Terminal Section, Type Flared	7	EA	\$2,900.00	\$20,300.00	0	\$0.00	0	\$0.00	0	\$0.00	7	\$17,500.00
25	61702-0800 Terminal Section, Type Tangent	7	EA	\$2,900.00	\$20,300.00	0	\$0.00	0	\$0.00	0	\$0.00	7	\$17,500.00
26	62201-1000 Wheel Loader, 4 Cubic Yard Minimum Capacity	30	HOUR	\$120.43	\$3,612.90	0	\$0.00	0	\$0.00	0	\$0.00	30	\$3,612.90
27	62201-2050 Roller	30	HOUR	\$102.83	\$3,084.90	0	\$0.00	0	\$0.00	0	\$0.00	30	\$3,084.90
28	62201-2850 Motor Grader, 12 Foot Minimum Blade	30	HOUR	\$145.43	\$4,362.90	0	\$0.00	0	\$0.00	0	\$0.00	30	\$4,362.90
29	62301-0000 General Labor	90	HOUR	\$39.27	\$3,534.30	0	\$0.00	0	\$0.00	0	\$0.00	90	\$3,534.30
30	63302-0000 Sign System	660	SOFT	\$38.00	\$25,080.00	0	\$0.00	0	\$0.00	0	\$0.00	660	\$25,080.00
31	63309-0200 Delineator, Type 2	450	EA	\$26.00	\$11,700.00	0	\$0.00	0	\$0.00	0	\$0.00	450	\$11,700.00
32	63401-0300 Pavement Markings, Type B, Solid Yellow	280,500	LNT	\$0.04	\$11,220.00	0	\$0.00	0	\$0.00	0	\$0.00	280,500	\$11,220.00
33	63401-0300 Pavement Markings, Type B, Solid White	374,000	LNT	\$0.04	\$14,960.00	0	\$0.00	0	\$0.00	0	\$0.00	374,000	\$14,960.00
34	63401-0400 Pavement Markings, Type B, Broken Yellow	93,500	LNT	\$0.02	\$1,870.00	0	\$0.00	0	\$0.00	0	\$0.00	93,500	\$1,870.00
35	63502-0400 Temporary Traffic Control, Barricade Type 1	20	EA	\$35.00	\$700.00	0	\$0.00	0	\$0.00	0	\$0.00	20	\$700.00
36	63502-0600 Temporary Traffic Control, Barricade Type 3	12	EA	\$75.00	\$900.00	0	\$0.00	0	\$0.00	0	\$0.00	12	\$900.00
37	63502-100 Temporary Traffic Control, Cone, Type 36 inch	600	EA	\$7.00	\$4,200.00	0	\$0.00	0	\$0.00	0	\$0.00	600	\$4,200.00
38	63502-1300 Temporary Traffic Control, Drum	120	EA	\$18.00	\$2,160.00	0	\$0.00	0	\$0.00	0	\$0.00	120	\$2,160.00
39	63504-1000 Temporary Traffic Control, Construction Sign	2,050	SOFT	\$4.25	\$8,712.50	216	\$918.00	72	\$306.00	288	\$1,224.00	1,762	\$7,488.50
40	63506-0600 Temporary Traffic Control, Pilot Car	250	HOUR	\$59.00	\$14,750.00	0	\$0.00	0	\$0.00	0	\$0.00	250	\$14,750.00
41	63507-0700 Temporary Traffic Control, Traffic and Safety Supervisor	110	DAY	\$450.00	\$49,500.00	4	\$1,800.00	16	\$7,200.00	20	\$9,000.00	90	\$40,500.00
42	63509-1000 Temporary Traffic Control, Flagger	2,900	HOUR	\$47.00	\$136,300.00	36	\$1,692.00	249	\$11,703.00	285	\$13,395.00	2,615	\$122,905.00
43	MOH-40101-1000 Material on Hand for Superpave Aggregate	1	LS	\$171,250.00	\$171,250.00	0	\$0.00	1	\$171,250.00	1	\$171,250.00	0	\$0.00
Percent Retainage		0.0%			\$4,895,746.91		\$62,823.19		\$326,286.11		\$389,109.30		\$4,506,637.61
Totals					\$4,895,746.91		\$62,823.19		\$326,286.11		\$389,109.30		\$4,506,637.61
Retainage					\$0.00		\$0.00		\$0.00		\$0.00		\$0.00
Totals Minus Retainage					\$4,895,746.91		\$62,823.19		\$326,286.11		\$389,109.30		\$4,506,637.61



U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
Central Federal Lands Highway Division
12300 W. Dakota Ave. Lakewood, Colorado 80228

Item Quantity Pay Note Sheet

Date: 10-10-10

Project Number: SD PFH 17-1(6) Project Name: Hill City to Lead

Account: Schedule A

Pay Note Information:

Pay Item #: 30101-0000 Item Description: Agg. Base Lot 1 Material Incentive Pay Unit: TON

Item Line #: N/A (for EEBACS only) Item Type: QM

Pay Note #: 142 Pay Period: 5

Pay Note Entry:

Work Start Date: 9/02/10 Work End Date: 10/02/10

Location/Description:

Material placed under 30101-0000 from 9/2/10 to 10/2/10. See Item for locations

Remarks/Calculations:

From Location/Description:
Total quantity (TONS) = 250.84 + 240.03 + 230.64 + 250.68 + 250.92 + 210.99 + 250.08 = 1,720.18 TONS = Lot 1
1,720.18 TONS WERE PAID ON ESTIMATE 4, 10/02/10. PER ATTACHED QL-PAY REPORT DATED 10/10/10, THE CONTRACTOR IS SUBMITTING FOR ADDITIONAL COMPENSATION FOR THIS LOT DUE TO A CALCULATED 1.03 PAY FACTOR.
(1.03 X \$22.45) = \$23.12 (new unit bid price for Lot 1)
1720.18 TONS x (\$23.12 new unit bid price - \$22.45 previously paid) = 1720.18 TONS x (\$0.67) = \$1,152.52

Support Documentation/References:

QL-PAY calculation sheet for Lot 1, 30101-0000 unit price

Measured By: Joe the Inspector & Bob the Contractor

TOTAL QUANTITY: 1720.18 ton@\$.67

Interim Measurement Final Measurement

By signature below, I hereby certify that the measurements and calculations shown above are correct to the best of my knowledge and that the quantity being measured is subject to direct payment for the identified item under contract.

Contractor Representative (Print): Bob the Contractor

Date: 10/10/10

Contractor Representative (Signature):

Approved by FHWA Representative (Print): Joe the Inspector

Date: 10/11/10

Approved by FHWA Representative (Signature):

Checked by FHWA Representative (Signature): Jane the Project Engineer

Date: 10/13/10

QL-PAY 5.30 Nov 10, 2010

Page 2

Central Federal Lands Highway Division

QUALITY LEVEL ANALYSIS & PAY FACTOR COMPUTATIONS

Project Name: Hill City to Lead
 Project Number: SD PFH 17-1(6)
 Project ID: DTFH68-10-C-00010

Item Number: 30101-0000
 Lot Number: 1
 Lab: Contractor Lab

Quality Levels and Pay Factors

Quality Characteristic	Actual Target Value		Mean	Standard Deviation	PWL	Pay Factor
1"	info		100.00	0.000	---	---
3/4"	94.91	+,- 6.0	94.91	1.446	100	1.00
1/2"	info		78.82	2.857	---	---
3/8"	70.73	+,- 6.0	70.73	3.379	94	1.03
#4	54.18	+,- 6.0	54.18	3.430	94	1.03
#40	14.55	+,- 4.0	14.55	1.128	100	1.00
#200	7.00	+,- 3.0	9.02	0.665	94	1.03

TESTING COMPLETED
 FINAL PAY FACTOR: 1.03

A- 7

Pay Item No.	Estimated Quantity	Unit Bid Price	Amount Bid
30101-0000	AGGREGATE BASE 5,810 TON	22.45	130,434.50
40301-0000	HOT ASPHALT CONCRETE PAVEMENT 2,445 TON	88.78	217,067.10
40920-1000	FOG SEAL, EMULSIFIED ASPHALT GRADE CSS-1 OR CSS-1H, SS-1 OR SS-1H 3 TON	969.40	2,908.20
41101-0000	PRIME COAT 10 TON	918.38	9,183.80
41105-0000	BLOTTER 50 TON	102.04	5,102.00
41201-1000	TACK COAT GRADE CSS-1, CSS-1H, SS-1, OR SS-1H 3 TON	1,122.46	3,367.38
60103-0000	CONCRETE, HEADWALL AND WINGWALLS 2 EACH	24,490.08	48,980.16
60103-0000	CONCRETE, HEADWALL (PRECAST) 2 EACH	1,020.42	2,040.84
60201-0600	18-INCH PIPE CULVERT 165 LNFT	27.04	4,461.60
60201-0800	24-INCH PIPE CULVERT (CONCRETE) 90 LNFT	45.92	4,132.80
60201-0900	30-INCH PIPE CULVERT 65 LNFT	45.92	2,984.80
60210-0600	END SECTION FOR 18-INCH PIPE CULVERT 4 EACH	255.11	1,020.44
60210-0800	END SECTION FOR 24-INCH PIPE CULVERT (CONCRETE) 2 EACH	1,045.93	2,091.86

Bid Schedule A

Project: PFH 17-1(6)

HILL CITY TO LEAD

ABC Construction Company
P. O. Box 357
Red River, CA 94781

August 18, 1997

Federal Highway Administration
P. O. Box 78
Sutterville, CA 94832

Gentlemen:

Re: CA FH 93-1(3), Gold Rush Highway
Quality Control Plan

The following items comprise our Quality Control Plan (QCP) required by Subsection 153.02 of the Contract.

1. All work will be performed in accordance with the contract requirements. ABC will maintain an inspection system which assures compliance with the contract requirements. Any indication of system deficiencies whether discovered as a result of the Government's or ABC's checks and tests, will result in modifications to the system to correct these deficiencies.
2. This QCP does not endeavor to repeat or summarize contract requirements. It describes the process which ABC will use to assure compliance with those requirements. The QCP documents broad categories of contract work in accordance with Subsection 153.02. Necessary details dealing with minor items that may be overlooked in this plan will be addressed informally between the Quality Control Technician (QCT) and the Project Engineer (PE), as the work progresses; and will be documented in writing if so requested by the PE. It is understood that the level of QC accountability and control exercised by ABC on these items will be consistent with the details of this plan.
3. The Project Superintendent, Mr. Ralph Altway has overall responsibility for the successful completion of the project work. Mr. Altway has had similar responsibilities on other Federal (Corps of Engineers) and State (CALTRANS) projects.
4. Mr. Leon Williams will be the QCT for the project. He will report directly to Mr. Altway. Mr. Williams is also a NICET Level IV Technician and Certified by CALTRANS and Nevada DOT as a QC Technician. He has been employed in this role by ABC for nearly three years. He will be responsible for overseeing day-to-day construction operations from a QC standpoint. He will assure that all required tests and documentation are completed, and that the results are furnished to the Government in the time frame required. Mr. Williams is empowered to suspend any operations which he deems to be in noncompliance with the contract, and/or order corrective measures to assure compliance. Mr. Williams will complete the Inspector's Daily Record required by Subsection 153.04.
5. As the number of operations or their dispersion on the project starts to overextend Mr. Williams, QC responsibilities will specifically be assigned to ABC's supervisory personnel specifically responsible for given operations; or an assistant to him will be provided. In either case, standards of application of the QCP will be the same. The names, experience and qualifications of any personnel assuming QCP responsibilities will be provided to the Government in advance.
6. ABC has an experienced and highly professional staff that is used to the responsibility entailed by the QC requirements. We therefore do not anticipate any personnel or training problems in complying with them. If any such problems occur, ABC will take whatever actions are necessary to correct them including retraining, providing more supervision or removal of poorly functioning personnel.

7. Grading

Preparatory Phase -

QCT will go over erosion control requirements with Project Engineer and order silt fence and other authorized materials at least two weeks before work starts.

QCT will go over clearing limits and slope limits with PE and Grading Foreman.

Startup Phase -

ABC will install silt fences and temporary culverts as necessary along pioneer road.

QCT will obtain materials samples for T-99 or T 180 proctor tests as soon as cuts are started. Provide PE with splits of samples. Provide completed proctor worksheets within 48 hours.

Grading Foreman's name will be provided to Government as soon as known.

QCT will go over lift thickness and other contract requirements with Grading Foreman.

Production Phase -

After startup, Grading Foreman will be responsible for continuous monitoring of QC.

QCT will monitor the work and density with a nuclear gauge. These tests will be at the minimum levels as required by the contract for non-rock material. The QCT will require additional proctors to be performed when test results indicate the proctor being used may not be correct, or when the material changes. One-point proctors will be performed as needed to verify the use of the proper proctor. If appropriate to the material being tested, the proctor will contain a rock correction and/or a moisture correction. Only moisture corrections supported by laboratory testing will be used when testing the compacted material with a density gauge. QCT will advise the Grading Foreman of test results.

Failing tests will be followed by appropriate corrective [reworking/recompaction] efforts, and retesting. If the rate of initial failing tests exceeds one out of five, the QCT and Grading Foreman will meet and formally document the corrective actions to the embankment construction process which will be taken to resolve the problem.

Grading Foreman will order drying operations or more water when compaction tests or appearance of fills material indicate that moisture is a problem.

Density tests will be documented in tabular form showing date, time, location, offset, depth below grade and test result. Results will be provided to PE by the next working day.

Each day QCT will plot test results on control charts in the ABC project lab.

8. Drainage

Preparatory Phase -

QCT will obtain survey crews' stakeout notes and review culvert design prior to submittal to PE for approval. QCT will obtain approved designs and order culvert and end section materials.

Precast inlets and similar items will be obtained from Williams Precast Co. of Susanville. Copies of their materials data, mix designs and QC plan will be obtained and furnished to PE 30 days prior to start of work.

Cast-in-place concrete will be furnished under Section 601 and obtained from Sutterville Quality Concrete (SQC). QCT will obtain documentation from SQC. QCT will go over their procedures with them before production.

QCT will identify a source of backfill material to be used if natural material is too rocky or otherwise unsuitable. QCT will test the material (proctor) and provide results to PE.

QCT will inspect culvert materials upon arrival and obtain valid materials certifications and submit to PE.

QCT will go over stakeout notes and contract requirements with pipe crew foreman prior to start of work. Pipe foreman will be identified to PE prior to start of work.

Startup Phase -

QCT will work nearly continuously with the pipe crew on the first day to verify layout procedures, bedding preparation and assembly.

QCT will go over proctor data and operation of nuclear gauge with pipe foreman. They will agree on what passing density readings are for the borrow backfill and other possible backfill materials.

QCT will go over backfill, lift thickness and density monitoring procedures.

For cast-in-place concrete, QCT will be at plant to verify QC procedures at the start of production. QCT will perform required QC at the site.

Production Phase -

Pipe foreman will be responsible for QC during construction.

The pipe foreman is trained and certified to operate a nuclear density gauge. The pipe foreman will monitor work and density with a nuclear gauge during backfill operations, and will perform density testing at the minimum rate required by the contract. QCT will visit each installation on a random basis to take density tests to verify the pipe foreman's results. A new proctor will be performed when test results indicate the proctor being used may not be correct, or when the material changes. One-point proctors will be performed as needed to verify the use of the proper proctor. Moisture corrections will not be used unless supported by laboratory data. Record of density tests will be furnished to the PE by the following working day.

Failing tests will be followed by appropriate corrective efforts and retesting. If the rate of initial failing tests exceeds one out of five, the QCT and pipe foreman will meet and formally document the corrective actions to the embankment construction process which will be taken to resolve the problem.

For cast-in-place concrete QCT will obtain all required documentation and furnish to PE. QCT will be at placement site enough to perform required QC tests. QCT will go over QC procedures with foreman, who will be responsible for QC when the QCT is absent.

9. Subgrade

Preparatory Phase -

QCT will coordinate with grading foreman and survey crew as to how subgrade will be staked, controlled and finished.

QCT will go over with grading foreman, any problems with subgrade materials quality - rocky material, clay or other unsuitable. Such materials will be used in other than subgrade locations.

Startup Phase -

QCT will coordinate with grading foreman and PE, the acceptable standards and tolerances for subgrade finishing.

Production Phase -

Grading foreman will be responsible for day to day QC.

Grading foreman will advise PE when each segment of subgrade is ready for acceptance.

QCT will take subgrade density tests at required frequency using nuclear gauge. One point proctors will be run whenever materials change or when there are questions as to the suitability of the proctor being used.

Test results will be plotted on control charts by QCT and also furnished to the PE by the next working day.

10. Base Course

Preparatory Phase -

Base course will be obtained from Whippel Mountain Aggregates, Inc. (WMA)

QCT will obtain suppliers quality tests and samples of material for the PE at least 30 days prior to base work beginning.

QCT will perform proctor tests on base course. QCT will also perform initial gradation tests on stockpile just prior to startup.

QCT will review supplier's QC procedures including stockpiling, moisture control, process control testing, and weighing.

QCT will develop dumping spread sheets for base course foreman.

Startup Phase -

QCT will go over delivery and dumping procedures with base course foreman.

QCT will go over spreading and compaction procedures with base course foreman.

Base course will be pugmill mixed and delivered at optimum moisture and in nonsegregated condition so that processing on the grade will be minimal.

Production Phase -

WMA will be responsible for plant QC. WMA will perform at least one gradation test per day as long as at least 80% of tests pass. Frequency will be increased if there are more failing tests.

Grading foreman will be responsible for receiving, dumping, tabulating tonnages and delivering receiving reports to PE at the end of each day.

Grading foreman will perform occasional (at least one per day) depth checks to verify spread rates.

QCT will obtain gradation samples at the required frequency. Samples will be split, with the splits delivered to the PE.

11. Asphalt Items

Preparatory Phase -

All asphalt items will be furnished by Allied Paving (AP) of Sutterville. Materials will be hauled to the site by ABC's hauling sub, and paving or installation of materials will be by ABC.

AP has a lab certified by Caltrans at the plant. Lab supervisor is William Brown, Certified Asphalt Technician in California.

QCT will obtain required mix design submittals and samples from AP and deliver to PE at least 30 days before work is scheduled to start. AP's QC/Mix Design technician is Allen Rockford who has 15 years in this position and is a certified asphalt technician in California and Nevada. Mr. Rockford will be the contact for any technical discussions during the mix approval process.

With the mix designs, AP will furnish a separate QC plan dealing with their plant operations, personnel, etc.

Startup Phase -

QCT will review all specification requirements with paving foreman prior to start of work.

QCT will be in charge of production start up procedures. Documentation and tests will be at his directions and submitted to the PE. Full production will start when approved by PE.

Production Phase -

Paving foreman will be responsible for QC on a daily basis. QCT will conduct periodic inspections.

QCT or designee will obtain mix sample and cores. Splits will be provided to PE for acceptance. Contractor samples will be delivered to AP's plant lab for testing. Results will be provided through the QCT by the following day. We will attempt to set up a system to provide results by FAX.

AP will obtain AC samples at the plant and deliver (through QCT) to PE for testing.

Test results will be plotted on control charts in ABC's onsite lab. QCT will run QL Pay at the end of each day, or the beginning of the next. Quality problems evident either from inspections or test results will be dealt with under the direction of the QCT. Work will be suspended if problems cannot be resolved expeditiously.

12. Structural Concrete

Preparatory Phase -

Wahoo Readymix in Martin, CA will provide PC concrete under Section 552 for the box culverts. Wahoo's plant is certified by CalTrans as is their Quality Supervisor, Mr. Larry Ryland. Mr. Ryland will provide documentation [through ABC's QCT] of proposed mix design (previously approved by CalTrans) and all materials 30 days or more prior to first delivery. Wahoo will also be responsible for all plant QC and inspection of trucks.

QCT will be responsible for onsite QC operations other than the concrete mix itself, e.g. resteel, forming, concrete placement, finishing, etc. Resteel will be inspected upon delivery for proper certification, dimensions, storage, etc. QCT will be responsible for stakeout and foundation preparation prior to forming.

Startup Phase -

QCT will coordinate with Wahoo to schedule delivery operations. Wahoo will send one or more certified concrete technicians to each concreting operations. Technicians will be responsible for any final mix adjustments, delivery ticket validation, screening (air, slump, temperature) and acceptance testing as required by FHWA inspector. Cylinders will be cured onsite at ABC's lab, and taken to Wahoo's lab for breaking. QCT will advise FHWA of scheduled breaks and provide opportunity for witnessing.

QCT will inspect forming and resteel operations from their inception and work with crews to assure acceptable tolerances and other compliance. QCT will inspect placement operations including vibrating and finishing. QCT will inspect curing operations and work with ABC crews to resolve any

problems. All required documentation will be completed by QCT and delivered to FHWA by the day following each placement operation.

Production Phase -

Wahoo will continue to provide onsite QC for each concrete delivery.

Once resteel and forming crews are lined out, QCT will make spot checks of their operations, plus a final inspections two hours or so prior to each placement. QCT will inspect curing QCT will inspect all surfaces upon stripping and go over any necessary repairs and finishing operations.

13. Miscellaneous Items

This covers items, mostly involving installation of manufactured items such as guardrail, delineators, fencing, etc.

Preparatory Phase -

QCT will verify all certification requirements, inspect material upon delivery and submit certifications and other documentation to PE.

QCT will work with survey crew and PE to verify exact stakeout requirements and resolve any potential stakeout problems.

Startup Phase -

QCT will go over the specification requirement and stakeout data with the foreman in charge of installation.

QCT will normally be present when any operation begins to resolve problems and verify specification compliance.

Production Phase -

Foreman will normally be responsible for QC during production. QCT will make spot checks approximately once a day or more frequently if there are problems.

QCT will perform tests required by the contract and furnish results to PE. QCT will advise PE when segments of the work are ready for acceptance.

The overall goal of ABC Construction Company's quality control program is to conduct consistent and effective processes such that work performed naturally conforms to the contract requirements. Testing and inspection will be performed and documented for the purpose of evaluating the effectiveness of our work processes, identifying and correcting non-conforming work, and ensuring the quality of the work is not compromised.

Please advise me if there are any additions or supplements you would like us to make to this QCP. If there are changes to any items (personnel, suppliers, etc.) we will attempt to provide the PE notice in advance of their impact on the work.

We need concurrence to proceed with at least the clearing and grading portion of the work by June 1 in order to stay on our schedule.

Sincerely yours,

Ralph Altway

Ralph Altway
Superintendent