FORM F	FEDERAL HIGHWAY Western Federal Land 610 E. 5 th St. Vancour		Date Stamp
(a)	Project Name:		Copy Stamp
	Project Number:		
(b)	Item Number:	20101	
	Item Description:	Clearing and grubbing	
(c)	Date work performed:		
Daily	Record Of Miscellane	ous Items	
(f) Calo	culations*:		
13+3	20 to 14+500: 2	28,628 m2 per FHWA clearing report = 2.863 ha	a

Be sure to adjust designed clearing distances and areas to reflect actual areas of work performed

(g) Supporting sketch and details*:

see attached documentation:

(a) Contractor clearing report

(b) FHWA clearing report

Summary of Quantities

(d) Location:		(e) Measured quantity:
see stations ab	ove	2.863 ha
*Attach additional sheets if necessary.	Total Quantity:	2.863
	Unit of Measurement:	ha

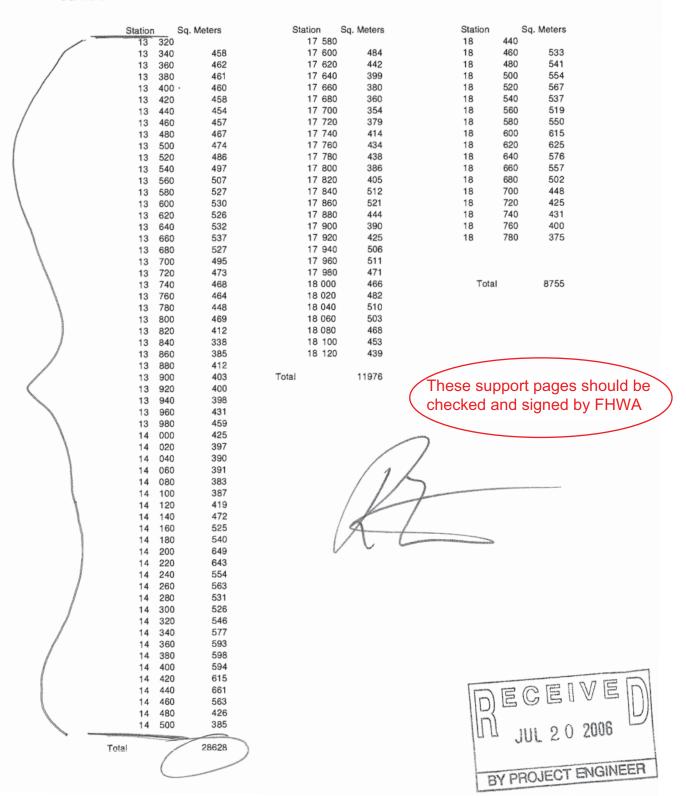
(h)	Name	of	person	measuring	work
(''')	Nume	01	person	measuring	wonk

	FHWA	Use Only
(i) 🔲 Interim Measurement 🔲 Final Measurement	Verified By:	
I certify the above measurements and calculations are correct and the total quantity is subject to	Construction Inspector	-
direct payment for the item identified.	Approved	Entered To Record
		Checked By:
(j) Contractor Representative	FHWA Representative	Date:

Clearing Report Sunriver to Mt. Bachelor Contract No. DTFH70-06-C-00007 OR PFH 244-1(1)



Stations 13+320 to 18+780



Page# 42	Store	50										12 A	513.		2 294813.0000)		
OR	AREAS ES									\langle	- J	14-1-	AN		1.0 (ACCUM m2		
NRIVER TO MT. BACHELOR PROJ OR PEH 244-1(1) MAINLINE CLEARING REPORT	SUBTOTAL m2												7		10912		
SUNRIVER TO MT. PROJ OR PFH 24 MAINLINF CLEARING RE	AREA m2	391	458	5/5	4.30	450	QC F	462	461	460	458	FC F	105	40/		400	497
	EXCEPTION WIDTH	0.000	0.000	000.0	0,000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	DISTANCE RT	9.967	13.631	9.745	10.420	10.653	10.777	10.815	11.279	11.514	11.546	11.651	11.968	12.081	11.787	12.753	12.874
	CLEARING LT	9.273	12.882	11.567	11.843	12.073	12.230	12.291	11.620	11.489	11.209	10.907	11.100	11.532	11.942	12.076	11.915
01/03/2006	STRTION	13+240.00 R 1	13+260.00 R 1	13+280.00 R 1	13+300.00 R 1	(13+320.00 R 1)	13+340.00 R 1	13+360.00 R 1	13+380.00 R 1	13+400.00 R 1	13+420.00 R 1	13+440.00 R 1	13+460.00 R 1	13+480.00 R 1	13+500.00 R 1	13+520.00 R 1	13+540.00 R 1
						START									Page	e 15 of	134

Page# 43	. елеіле) 5000 Д Л Е	100 am		Land Transmission							$\left(\right)$			7630	-	
Я	AREAS ES								A	4/1						
SUNRIVER TO MT. BACHELOR PROJ OR PFH 244-1(1) MAINLINE CLEARING REPORT	SUBTOTAL m2										~					
PROJ OR J PROJ OR J MA CLEAR	AREA m2	507	527 530	526	532	7.57	179	CC 14	C 1 4 8 9 4	464	448	469	412	338	385)
ŝ	EXCEPTION WIDTH	0.000	0.000	0.000	0.000	0.000	0.000	00000		0.000	0.000	0.000	0.000	0.000	000 0	•••
	DI STANCE RT	13.511	13.917	13.570	13.412 13.348	12.981	12.165	10.499	10.509	10.308	10.887	10.109	14.855	8.822	8.477	8.137
	CLEARING LT	12.331	12.878	12.617	12.985 13.397	13.903	13.588	13.2ľ5	13.028	12.922	12.251	11.498	10.369	7.089	9.323	12.549
01/03/2006	STATION	13+560.00 R 1	13+580.00 R 1	К	13+620.00 R 1 13+640.00 R 1	13+660.00 R 1	13+680.00 R 1	13+700.00 R 1	13+720.00 R 1	13+740.00 R 1	13+760.00 R 1	13+780.00 R 1	13+800.00 R 1	13-820.00 R 1	13+840.00 R 1	13+860.00 R 1

Page#	0000	ahored Anr 5 5 (C (E					m2 306362.0000)					\bigcap	2	1 - T - 1 - C		
SUNRIVER TO MT. BACHELOR PROJ OR PFH 244-1(1) MAINLINE CLEARING REPORT	SUBTOTAL AREAS m2 ES						11549 1.1549 (ACCUM m2			L	X					
UNRIVER TC PROJ OR E MAI CLEARI	AREA m2	412	403 400	398	431	459	624	195	025	383 383	387	419	472	505		ר זי ז
ō	EXCEPTION WIDTH	0.000	0.000	0.000	0.000	0.000	0.000	0.000		0.000	0.000	0.000	0.000	000		>>> >>
	DI STANCE RT	7.446	6.951	7.440	10.335	10.020	9.669	9.881	10.266	10.510	11.971	13.732	15.251	16.072	15.999	16.418
	CLEARING LT	13.011	12.833	12.725	13.132	12.369	10.387	9.719	9.079	9.148	6.661	6.313	6.513	9.359	11.017	10.501
01/03/2006	STATION	13+880.00 R 1	13+900.00 R 1	13+920.00 R 1 13+940 00 R 1	ц к	13+980.00 R 1	14+000.00 R 1	14+020.00 R 1	14+040.00 R 1	14+060.00 R 1	14+080.00 R 1	14+100.00 R 1	14+120.00 R 1	14+140.00 R 1	14+160.00 R 1	14+180.00 R 1

<pre>C. BACHELOR 244-1(1) NE REPORT</pre>		2000	S III								1 1	w HOW				
SUNRIVER TO MT. BACHELOR PROJ OR PFH 244-1(1) MAINLINE CLEARING REPORT	AREA S m2	649	643 554	563	531	526	546	1/0			- LY	661		426	385	
SU	EXCEPTION WIDTH	0.000	0.000	0.000	0.000	0.000	0.000	0,000						0000		>>>
	DISTANCE RT	24.066	15.178	16.921	16.707 15.385	16.024	16.776	17.811	16.770	18.083	17.318	19.385	13.276	12.343	9.610	
	CLEARING LT	13.855	11.103	12.138	10.456	10.650	11.113	11.917	12.710	12.185	11.802	12.943	20.437	10.209	10.430	
01/03/2006	STATION	14+200.00 R 1	14+220.00 R 1	14+240.00 R 1	14+260.00 R 1 14+280.00 R 1	14+300.00 R 1	14+320.00 R 1	14+340.00 R 1	14+360.00 R 1	14+380.00 R 1	14+400.00 R l	14+420.00 R 1	14+440.00 R 1	14+460.00 R 1	14+480.00 R 1	

Page 18 of 134

FORM FHWA 17-348 (12/2007) U.S. DEPARTMENT OF TRANSPORTAT FEDERAL HIGHWAY ADMINISTRATION Western Federal Lands Highway Division 610 E. 5 th St. Vancouver, Washington 98661 FP-03 109.01	ΓΙΟΝ	Date Stamp
(a) Project Name:		Copy Stamp
Project Number:		ουργ σταπρ
(b) Item Number: 20101		
Item Description: Clearing and grub	bing	
(c) Date work performed:		
Daily Record Of Miscellaneous Items		
(f) Calculations*:		
 **Area grubbed, per Appendix A, 75 % (g) Supporting sketch and details*: see attached documenation: (a) MS Excel spreadsheet (b) FHWA clearing report 	partial payment	
Summary of Quantities		
(d) Location:		(e) Measured quantity:
see stations al	DOVE	2.330 acre
*Attach additional sheets if necessary.	Total Quantity: Unit of Measurement:	2.330
(h) Name of person measuring work:	Utill UtiviedSutethem.	acre
(1)	FHWA Use	Only
(i) 🔳 Interim Measurement 🔲 Final Measurement	Verified By:	; only
I certify the above measurements and calculations are correct and the total quantity is subject to direct payment for the item identified.	Construction Inspector	
direct payment for the nem identified.	Approved	Entered To Record
		Checked By:
(j) Contractor Representative	FHWA Representative	Date:

Sta	Sta	SF	
375+00.00	376+50.00	7,876.00	1 acre = 43560 square feet
376+50.00	383+61.10	33,298.00	
383+61.10	389+00.00	25,048.00	
389+00.00	394+50.00	34,852.00	
394+50.00	398+00.00	19,164.00	
398+00.00	400+00.00	15,103.00	
		135,341.00 Total	3.107 acre

Page# 62																		1	put in MS Excel spreadsheet
		AREAS ACRES																	
PFH 208-1(1)	MP GRISDALE ROAD Mainline CLEARING REPORT	SUBTOTAL SF													Law on the second	シ			こう つたらも
	CAMP GF Ma Cleaf	AREA SF	2443	2442	2558	2970	2990	2623	2360	2064	1960	2373	3209	3068	2655	2653	2599	2624	St 7
		EXCEPTION WIDTH	24.00	24.00	24.00	24,00	24,00	24.00	24.00	24,00	24,00	24.00	24.00	24,00	24.00	24.00	24.00	24.00	/
		DISTANCE RT	34 60	00 UC	04.66	34.75	33.06	34.92	22.39	25.20	23.11	36.14	45,90	26,36	30.41	32.22	27,95	24,14	
		CLEARING LT	C9 95	20.00	20.04	56.18	43.60	41.32	43.74	39.22	38.87	44.79	49.50	48.94	48.49	42.98	48.76	52,08	
08/15/2007		STATION	369+00.00 R 2	C C	μ	а К	Ц	371+50.00 R 2	372+00.00 R 2	372+50.00 R 2	373+00.00 R 2	373+50.00 R 2	374+00.00 R 2	374+50.00 R 2	375+00.00 R 2	375+50.00 R 2	376+00.00 R 2	376+50.00 R 2	

Page 21 of 134

Page# 63																		- put in MS Eacel greadsheet
	AREAS ACRES																	-
WA PFH 208-1(1) MP GRISDALE ROAD Mainline CLEARING REPORT	SUBTOTAL SF																, and the second se	18 25
WA PFH CAMP GRI Mai) CLEARI)	AREA SF	2456	2234	2037	2041	2449	2799	2669	2449	2364	2334	2201	1750	1801	575	2503	636	× 33, 298 SF
	EXCEPTION WIDTH	24.00	24.00	24.00	24.00	24.00	24.00	24.00	24.00	24.00	24,00	24.00	24.00	24.00	24.00	24,00	24.00	"W
	DISTANCE RT	3 V C C	C# . CC	22.33	32,18	54.41	50.61	42.22	41.81	40.39	41.71	36.00	26.09	30.55	48.02	49.34	48.41	
	CLEARING LT	U U V	9C.0F	39.81	35.30	24.06	30.87	31.04	30.87	29.48	29.77	28.54	27.33	36.05	41.81	35.85	28.95	
08/15/2007	STATION	0 0 00+228	4 24	R	378+50.00 R 2	379+00.00 R 2	379+50.00 R 2	380+00.00 R 2	380+50.00 R 2	381+00.00 R 2	381+50.00 R 2	382+00.00 R 2	382+50.00 R 2	383+00.00 R 2	383+10.60 R 2	383+50.00 R 2	383+61.10 R 2	

Page# 64																		
	AREAS ACRES																	
WA PFH 208-1(1) MP GRISDALE ROAD Mainline CLEARING REPORT	SUBTOTAL SF																	22
WA PFH 208- CAMP GRISDALE Mainline CLEARING REY	AREA SF	1768	2333	496	1.277	658	954	144	1486	891	3094	3224	2468	2217	2269	1532	237	Z'25, 648 Sr
	EXCEPTION WIDTH	24.00	24.00	24,00	24.00	24.00	24.00	24.00	24.00	24.00	24.00	24.00	24,00	24.00	24.00	24.00	24,00	2
	DISTANCE RT	32,86	46.92	29.00	29.00	29.00	29.00	50,98	28.89	40.57	60.24 .	49.31	37.90	27.95	27.51	34.31	34.67	
	CLEARING LT	28,67	32.86	28.55	27.07	28.70	31.89	32.07	33,82	35,50	35,44	31,94	27.54	43.27	40.00	19.10	19.10	
08/15/2007	STATION	384+00.00	4 24	R	385+00.0C R 2	385+20.00 R 2	385+47.01 R 2	385+50.00 R 2	385+80.39 R 2	386+00.00 R 2	386+50.00 R 2	387+00.00 R 2	387+50.00 R 2	388+00.00 R 2	388+50.00 R 2	388+92.00 R 2	389+00.00 R 2	

Page# 65					(ACCUM SF 1956814.0000)													
	AREAS ACRES				3.2584													
WA PFH 208-1(1) CAMP GRISDALE ROAD Mainline CLEARING REPORT	SUBTOTAL SF				141934												where the proof the spread to the second	251
WA PFI CAMP GR Ma: CLEAR	AREA SF	2203	2972	3300	3374	3259	3202	3235	2971	322	3483	374	1252	215	859	790	3041	MASZ SF
	EXCEPTION WIDTH	24,00	24,00	24.00	24.00	24.00	24.00	24,00	24.00	24.00	24.00	24.00	24.00	24,00	24,00	24,00	24.00	2
	DISTANCE RT	C G C G C G		24.04	4/.12	ν. γ. τ γ. τ	27.75	45.43	44.21	45.59	56.01	56.95	56.70	55.44	51.10	46.35	46.02	
	CLEARING LT	64 64	24.0F	D C C C C C C C C C C C C C C C C C C C	40.32	4У. IV Л Л Л Л	94.04	46.72	43.68	43.19	15.24	42.00	39.57	39,08	39.66	37.19	40.05	
08/15/2007	STATION	389450,00 R 2	¢ β	4 6	K C	391+50 OC B 2	4 24	R	Ц	393+00.00 K 2	R	요	393+72.00 R 2	393+75.00 R 2	393+87.50 R 2	394+00.00 R 2	394+50.00 R 2	

Page# 66																		
	AREAS ACRES																	
WA PFH 208-1(1) MP GRISDALE ROAD Mainline CLEARING REPORT	SUBTOTAL SF																Law and the second s	JS HO
WA PF CAMP GR Ma CLEAR	AREA SF	3168	2222	1690	634	750	190	850	260	318	3327	348	2197	475	955	1449	331	12 101 101 2
	EXCEPTION WIDTH	24.00	24.00	24.00	24.00	24.00	24.00	24.00	24.00	24.00	24.00	24.00	24.00	24.00	24.00	24.00	24.00	, H
	DISTANCE RT	ער ס <i>ה</i>	86.00	32.91	48.38		54.65	57.29	54.33		47.35	46.56	45.60	45.82	46.19	47.08	47.27	
	CLEARING LT	22 KS	22.28	34.40	33.69	33.76	33.88	32.91	33.19	33.54	46.15	46,85	31.00	31.00	31.00	31.00	54.78	
08/15/2007	STATION	395+00,00 R 2				R,		396+41.00 R 2		396+50.00 K 2	397+00.00 R 2	397+05.00 R 2	397+41.00 R 2	397+50.00 R 2	397+68.00 R 2	397+95.00 R 2	398+00,00 R 2	
																_		

WA FFH 208-1(1) CAMP GRISDALE ROAD Mainline CLEARING REPORT	CLEARING DISTANCE EXCEPTION AREA SUBTOTAL AREAS LT RT WIDTH SF SF ACRES	EE OE AO 37 24.00 1432				24.00 2344 44.41		43.57 44.18 24.00 3283 U				31.39 39.00 24.00 2189	2				31.24 42.60 2509
		ц о ц		сг. СГ. СГ.	51.44	51.11	46.30	43.57	43.21	24.77	29.22	31.39	35.84	39.51	32.01	32.44	31.24
08/15/2007	STATION		4 0	4 P	а К	К	400+00.00 R 2	400+50.00 R 2	401+00.00 R 2	401+50.00 R 2	402+00.00 R 2	402+50.00 R 2	403+00.00 R 2	403+10.79 R 2	403+50.00 R 2	404+00.00 R 2	404+50.00 R 2

Page 26 of 134

FORM F	HWA 17-348 (12/2007)	T OF TRANSPORTAT	ION	Date Stamp
	FEDERAL HIGHWAY			
	Western Federal Lan			
FP-03 10		ver, Washington 98661		
(a)	Project Name:			Copy Stamp
	Project Number:			
(b)	Item Number:	20204		
	Item Description:	Additional clearing	and grubbing, removal of tree	
(c)	Date work performed:			
Daily	Record Of Miscellane	eous Items		
(f) Calo	culations*:			
10+0				
			= (pi/4)(20in)^2 = 314.159 sq.in = (pi/4)(26in)^2 = 530.929 sq.in	
11+9			- (p#4)(2011) 2 - 550.929 Sq.11	
79)' from center line	: 2 @30" dia: A =	= (2)(pi/4)(30in)^2 = 1413.717 s	q.in
0050	005 . 45 0			
2258	.805 sq.in = 15.68	36 sq.ft		
Total	for payment = 15	5.686 sq.ft		
(g) Sup	porting sketch and detai	ls*:		
			Bo suro t	o confirm that tree is
				f original clearing limits
	nary of Quantities			(a) Macaurad quantity
(d) Loc	allon.	see stations ab	21/2	(e) Measured quantity: 15.686 sq.ft
		see stations ab	ove	15.000 Sq.It
*Attach	additional sheets if necessa	ary.	Total Quantity:	15.686
(1) 11	,		Unit of Measurement:	sq.ft
(h) Nar	ne of person measuring	work:		
~ — .			FHWA Use	e Only
(I) 🔳 I	nterim Measurement	Final Measurement	Verified By:	
	the above measurement rect and the total quantit		Construction Inspector	
	payment for the item iden		Approved	Entered To Record

FHWA Representative

(j) Contractor Representative

Checked By:

Date:

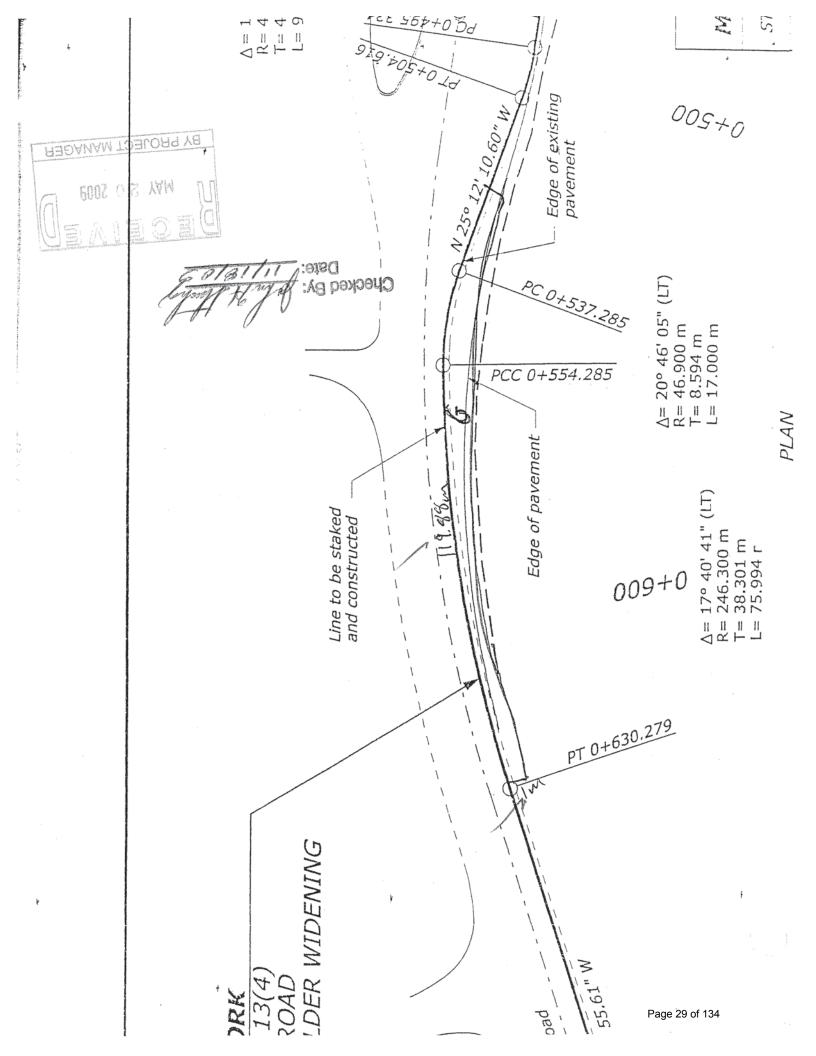
FORM FH	FEDERAL HIGHWAY Western Federal Land 610 E. 5th St. Vancour		Date Stamp
(a)	Project Name:		Comu Chama
(4)	Project Number:		Copy Stamp
(b)	Item Number:	20303	
()	Item Description:	Removal of Pavement, Asphalt	
(c)	Date work performed:		
Daily R	Record Of Miscellane	ous Items	
	ulations*:		
Area		x 1) = 119.88 m2	
	porting sketch and detail		
	ttached plan she	ets	
	ary of Quantities		
(d) Loca	ation:		(e) Measured quantity:
		0+280 to 0+360	119.88 m2

*Attach additional sheets if necessary.

	Unit of Measurement:	m2
(h) Name of person measuring work:		
	FHWA Us	se Only
(i) 🔳 Interim Measurement 🔲 Final Measurement	Verified By:	
I certify the above measurements and calculations are correct and the total quantity is subject to	Construction Inspector	
direct payment for the item identified.	Approved	Entered To Record
		Checked By:
(j) Contractor Representative	FHWA Representative	Date:

Total Quantity:

120



FORM FI	HWA 17-348 (12/2007)			Date St
	U.S. DEPARTMEN FEDERAL HIGHWAY	T OF TRANSPORTATION		
	Western Federal Lan	ds Highway Division		
FP-03 10		iver, Washington 98661		
(a)	Project Name:			Copy St
	Project Number:			
(b)	Item Number:	20401		
	Item Description:	Excavation and embankment, road	lway exc	
(c)	Date work performed:			
Daily F	Record Of Miscellan	eous Items		
(f) Calc	culations*:			
(a) Sup	poorting sketch and deta	ils*:		
	porting sketch and deta tached documentat	ils*: ion for sliver excavation:		
see att (a) diff	tached documentat ferential leveling su	ion for sliver excavation: vey notes		
see att (a) diff (b) sca	tached documentat	ion for sliver excavation: vey notes otes		
see att (a) diff (b) sca (c) ave	tached documentat ferential leveling sur aled cross section n	ion for sliver excavation: vey notes otes ulations		
see att (a) diff (b) sca (c) ave (d) irre Summ	tached documentat ferential leveling sur aled cross section n erage end area calc egular polygon area hary of Quantities	ion for sliver excavation: vey notes otes ulations		
see att (a) diff (b) sca (c) ave (d) irre Summ	tached documentat ferential leveling sur aled cross section n erage end area calc egular polygon area hary of Quantities	ion for sliver excavation: vey notes otes ulations calculations		(e) Measured quantity:
see att (a) diff (b) sca (c) ave (d) irre Summ	tached documentat ferential leveling sur aled cross section n erage end area calc egular polygon area hary of Quantities	ion for sliver excavation: vey notes otes ulations		(e) Measured quantity: 33.03m3
see att (a) diff (b) sca (c) ave (d) irre Summ	tached documentat ferential leveling sur aled cross section n erage end area calc egular polygon area hary of Quantities	ion for sliver excavation: vey notes otes ulations calculations		
see att (a) diff (b) sca (c) ave (d) irre Summ	tached documentat ferential leveling sur aled cross section n erage end area calc egular polygon area hary of Quantities	ion for sliver excavation: vey notes otes ulations calculations		
see att (a) diff (b) sca (c) ave (d) irre Summ	tached documentat ferential leveling sur aled cross section n erage end area calc egular polygon area hary of Quantities	ion for sliver excavation: vey notes otes ulations calculations		
(a) diff (b) sca (c) ave (d) irre Summ (d) Loca	tached documentat ferential leveling sur aled cross section n erage end area calc egular polygon area hary of Quantities	ion for sliver excavation: rvey notes otes ulations calculations see stations above	Total Quantity:	

	FH	IWA Use Only
(i) 🔲 Interim Measurement 🔲 Final Measurement	Verified By:	
I certify the above measurements and calculations are correct and the total quantity is subject to direct payment for the item identified.	Construction Inspector	
anou paymont for the termined.	Approved	Entered To Record
		Checked By:
(j) Contractor Representative	FHWA Representative	Date:

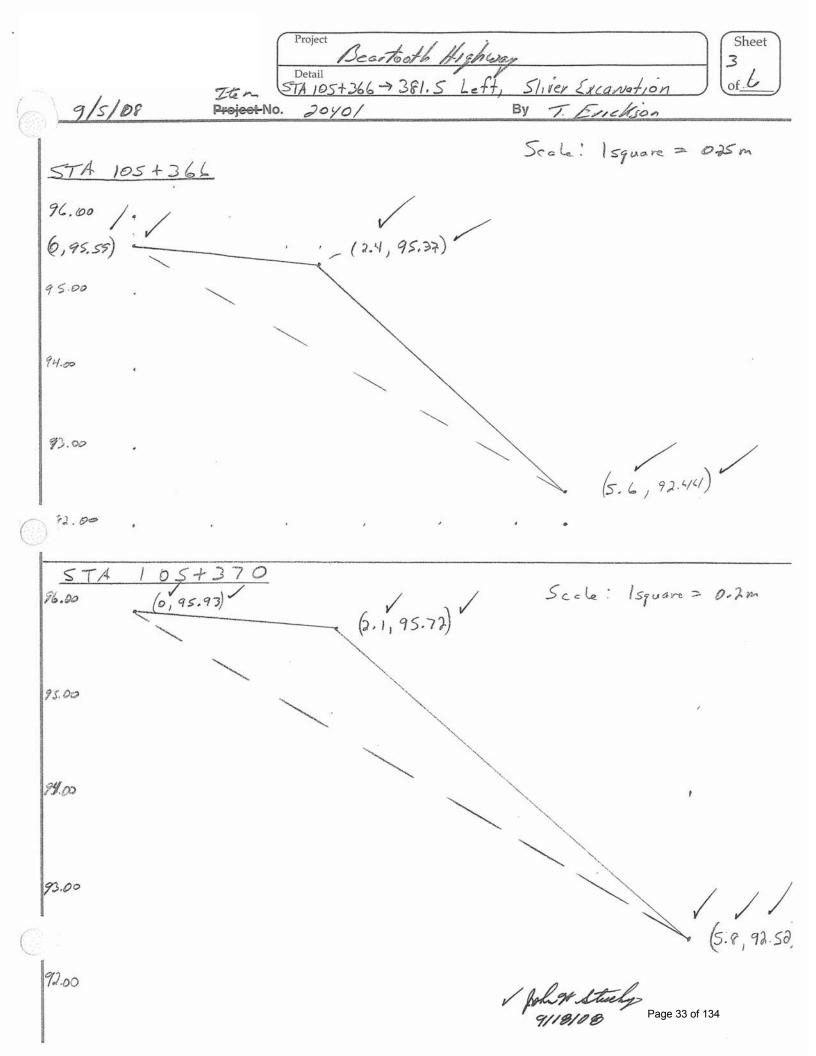
Project Sheet Beartooth Highway of 6 Detail STA 105+366 -> 381.5 Left, Sliver Excervation Item 9/5/08 By T. Erickson T Project-No. 2040/ M. Clark BSK / 1+I FS 5/er. 95.98 SHOT 5TA/05+380 Hub 97.14 / STA105+366 95.59 -1.55 " Back STA 105+366 1.77 95.37 Crest STA 105+366 4.70 -92.44 . Toe STA 105+370 1.21 / 95.93 Back () TA 105+370 1.42 95.72 Crest STA 105+370 4.62 92.52 loe STA 105 + 375 96.04 1.10 Back STA 105+375 96.04 5 1.10 Crest STA 105+375 4.53 92.61 Toe STA 105 + 380 1.28 95.86 Back STA 105+ 380 1.35 95.79" Crest TA 105 + 380 4.43 92.71 100

V John Sturky 9/10/00

Page 31 of 134

Project Sheet Beartooth Highway 2 Detail STA 105+366->381.5 Left, Sliver Excavation of 26~ 9/5/08 By T. Erickson TA M. Clark 9 20401 Project No. Elen FS-BSF 51107 HT 97.14 STA 105+381.5 Back. 1.61 95.53 STA 105+381. 5 1.94 95.20 Crest STA 105+381.5 4.35 Toe

V John 24 Sterky 9/18/08 Page 32 of 134



Project Sheet Bear tooth High way 4 Detail STA 105+3667 381.5 Left, Sliver Excavetion of Itom 9/5/08 2040 By T. Erickson Project-No. Scale: 1 Square = 0.2m STA 105+ 75 (1.3,96.04) (0,96.04) 96.00 95.00 94.00 93.00 (5.2, 92.61) 92.00 4 STA 105+380 (0,95.86) (0.5, 95.79) 96.00 95.00 \$4.00 93.00 (4.5) 9).7]) Page 34 of 134 V John 24 Stucky 9/18/00

Project Sheet Beartooth Highway 5 Detail STA 105+361-381.5 L=ft, Sliver Sxcanotion of Iton 9/5/08 Project No. 2040/ By T. Euckon STA 105+381.5 (0,95.53) - (0.6,95.20) 96.00 95.00 941.00 (4, 92.79) 93.00 92.00 V John # Stucky 9110/08 Page 35 of 134

Project Sheet Beartooth Highway 6 Detail of_6 STA 165+366 = 381.5 Left, Stiver Sucanation Iten 9/5/08 By T. Evickson Project No. 2040/ AISTA Area (m2) Area m2 Volume m3 STATION 3.161 105+366 J 41 3.071 12.28 1 105+370 V 2.97 V 2.60 0 51 13.00 2.23V 105+375 V 51 7,15 43 V 0.63 y 0.40 1 105+380 / 0.60 105+381.5 TOTAL VOLUME = 33.03

V John 94 Stucky 9/18/08

Page 36 of 134

FORM	FHWA 17-348 (12/2007) U.S. DEPARTMEN FEDERAL HIGHWAY Western Federal Land			Date Sta
FP-03 1	610 E. 5th St. Vancour	ver, Washington 98661		
(a)	Project Name:		-	Copy Sta
()	Project Number:			Copy Sta
(b)	Item Number:	20401		
()	Item Description:	Roadway excavation		
(c)	Date work performed:			
Dailv	Record Of Miscellane	ous Items		
	05 x 0.85 = 20,57	27+857 to 33+500 = 24 4.3 m3	,205 m3	
			,205 m3	
24,2	05 x 0.85 = 20,57	4.3 m3	,205 m3	
24,20		4.3 m3 s*:	,205 m3	
(g) Su see a (a) to	05 x 0.85 = 20,57 pporting sketch and detai attached documer otal mass spreads	4.3 m3 s*: ntation: heet	- 	
(g) Su see a (a) to	05 x 0.85 = 20,57 pporting sketch and detai attached documer otal mass spreads	4.3 m3 s*: ntation:	- 	
(g) Su see a (a) to (b) g	05 x 0.85 = 20,57 apporting sketch and detai attached documer otal mass spreads juidelines for perc	4.3 m3 s*: ntation: heet	- 	
(g) Su (g) Su see a (a) to (b) g Sumr	05 x 0.85 = 20,57 pporting sketch and detai attached documer otal mass spreads juidelines for perc	4.3 m3 s*: ntation: heet	partially complete work	(e) Measured quantity:
(g) Su (g) Su see a (a) to (b) g Sumr	05 x 0.85 = 20,57 apporting sketch and detai attached documer otal mass spreads juidelines for perc	4.3 m3 s*: ntation: heet	partially complete work	(e) Measured quantity: 20,574.3 m3
(g) Su (g) Su see a (a) to (b) g Sumr	05 x 0.85 = 20,57 pporting sketch and detai attached documer otal mass spreads juidelines for perc	4.3 m3 s*: ntation: heet entage of payments for	partially complete work	()
(g) Su (g) Su see a (a) to (b) g Sumr	05 x 0.85 = 20,57 pporting sketch and detai attached documer otal mass spreads juidelines for perc	4.3 m3 s*: ntation: heet entage of payments for	partially complete work	()
(g) Su see a (a) tc (b) g Sumr (d) Loo	05 x 0.85 = 20,57 pporting sketch and detai attached documer otal mass spreads juidelines for perc	4.3 m3 s*: ntation: heet entage of payments for see stations above	partially complete work	()

	FH\	WA Use Only
(i) 🔲 Interim Measurement 🔲 Final Measurement	Verified By:	
I certify the above measurements and calculations are correct and the total quantity is subject to direct payment for the item identified.	Construction Inspector	Entered To Record
	, ppiolog	Checked By:
(j) Contractor Representative	FHWA Representative	Date:

	Gran	nd <u>Teton</u> F	ark North Pa	irk Road Pha	se II	
Station			sable Mat Ex Emba			otal Mass (m3)
27-857	1,186	252	•	388	546	546
25-600	2,364 1,879	250 216	250 287	572	1,292	1,838
29+300	1,006 /	287	181	1,108 3,860	268 (3,322)	2,106
30-000 30+700	1,095 /	448	101	4,559	(3,912)	(1,216) (5,128)
31+400	1,418	493		2,805	(1,880)	(7,008)
32+100	2,799 .	580		409	1,810	(5,198)
32+800	5,529 *	203	1,340	188	3,798	(1,400)
33+500	6,929 ·	762	6,167	1,405	(1,405)	(2,805)
34+200	1,627	617	1,010	4,397	(4,397)	(7,202)
34+900	6,530	613	5,917	2,078	(2,078)	(9,280)
35+600	9,432	639	7,532	211	1,050	(8,230)
36+300	8,140	464	100	245	7,331	(899)
37+000	5,047 1,813	524 521	31	546	3,946	3,047
37+700 38+330	303	189		3,248 1,077	(1,956) (963)	1,091 128
30+330	505	105		1,077	(903)	120
Station	Total Mass (m3)					
27+857	546					
28+600	1,838		_			
29+300	2,106					
30+000	(1,216)		FHWA pr	oject staff sho	uld provide a r	note to
30+700	(5,128)			at calculations		
31+400	(7,008)					
32+100	(5,198)			al design or ac	ajusted quantit	les
32+800 33+500	(1,400) (2,805)					
33+300	(7,202)					
34+900	(9,280)					
35+600	(8,230)					
36+300	(899)					
§ 37+000	3,047					
37+700	1,091					
38+330	128					
			Total Mass (m0)			
and and a second s			Total Mass (m3)			
	(
	4,000	Strand Markeland				
A 115-14	2,000					
	2,000					
100.00			An an all and a straight of the second straig			
13)		0- 0- 0-1	0, 0, 0, 0, 00	0 0 0 0		
Mass (m3)	(2,000) 2,00,00,00,00,00,00,00,00,00,00,00,00,00	N X X X X	12 2 3 0	30/ 00 10 55°		
ISS	(4,000)	\$ 31 31	6° °S (°S °S °S	ိုက္ခါ သို ဘိ	>- Total Ma	ss (m3)
Ma	(1,000)					
	(6,000)		Start Start Start	And a second sec		
C. And C.						
	(8,000)				2 22 ⁴	
	(10,000)	1				
	(10,000)					-
			Station #			
r Alliner						0114

.

Checked By: July 24 Stree Date: 11/13/09 Page 38 of 134

APPENDIX 'A'

Guidelines for percentage payments for partially complete work

Description	Allowance (Cumulative)
Clearing and Grubbing	
 Felled and slashed Bucked and piled (slashings, brush and logs Grubbed Burned or chipped and removed Substantially complete including cleanup 	35 60 75 98 100
Excavation and Embankment	
 Pioneered Drilled Blasted Roughed out to grade Roadbed finished to grade 	5 20 35 85 90
 Slopes seeded Substantially complete including cleanup 	98 100
Structural Excavation	
 Excavation complete Backfill complete Substantially complete including cleanup 	85 98 100
Aggregate Courses	
 Crushed and stockpiled onsite Placed on roadway Spread, compacted and tested Substantially complete including cleanup 	50 80 98 100
Asphalt Pavements	
 Aggregates crushed and stockpiled onsite Placed, compacted and tested Substantially complete including cleanup A - 2 	50 98 100

ι.

Checked By: 1 N Stucy Date: 11/19/0

FORM FH	FEDERAL HIGHWAY Western Federal Land 610 E. 5 th St. Vancouv		Date Stamp
(a)	Project Name:		Copy Stamp
	Project Number:		
(b)	Item Number:	20402	
	Item Description:	Excavation and embankment, subexcavation	
(c)	Date work performed:		

Daily Record Of Miscellaneous Items

(1) Calculations*:				
4	87+82 to 488+38:	(56' long)(8' wide)(1' deep)	=	448 ft3	
4	89+07 to 489+28:	(21' long)(24' wide)(1.75' deep)	=	882 ft3	
4	91+58 to 492+06:	(48' long)(10' wide)(1.5' deep)	=	720 ft3	
4	90+72 to 493+80:	(308' long)(14' wide)(0.8' deep)	=	3449.6 ft3	
		Total	=	5499.6 ft3 = 203.7CY	

(g) Supporting sketch and details*:

Summary of Quantities

(d) Location:		(e) Measured quantity:
see stations abov	ve	203.7 CY
*Attach additional sheets if necessary.	Total Quantity:	204
	Unit of Measurement:	CY

(h) Name of person	measuring work:	

(h) Name of person measuring work:				
	FH	WA Use Only		
(i) 🔳 Interim Measurement 🔲 Final Measurement	Verified By:			
I certify the above measurements and calculations are correct and the total quantity is subject to	Construction Inspector			
direct payment for the item identified.	Approved	Entered To Record		
		Checked By:		
(j) Contractor Representative	FHWA Representative	Date:		

FORM F	FEDERAL HIGHWAY Western Federal Land 610 E. 5 th St. Vancour		Date Stamp
(a)	Project Name:		Copy Stamp
	Project Number:		
(b)	Item Number:	20402	
	Item Description:	Excavation and embankment, subexcavation	
(c)	Date work performed:		
Daily	Record Of Miscellane	ous Items	
(f) Cal	culations*:		
101+	440 to 101+680	= 2639.4m3	

(g) Supporting sketch and details*:

see attached documents:

(a) average end area calculations

(b) cross-section end area reports

(c) irregular polygon area calculations

Summary of Quantities

(d) Location:		(e) Measured quantity:
see stations abo	ove	2639.4m3
*Attach additional sheets if necessary.	Total Quantity:	2639
	Unit of Measurement:	m3

	FHWA Use Only		
(i) 🔲 Interim Measurement 🔲 Final Measurement	Verified By:		
I certify the above measurements and calculations are correct and the total quantity is subject to	Construction Inspector	-	
direct payment for the item identified.	Approved	Entered To Record	
		Checked By:	
(j) Contractor Representative	FHWA Representative	Date:	

COMPUTATIONS	Project #: 20402
Client Name:	Sheet of
 Prepared by: Date Checked by: <i>Date Checked by:</i>	Date

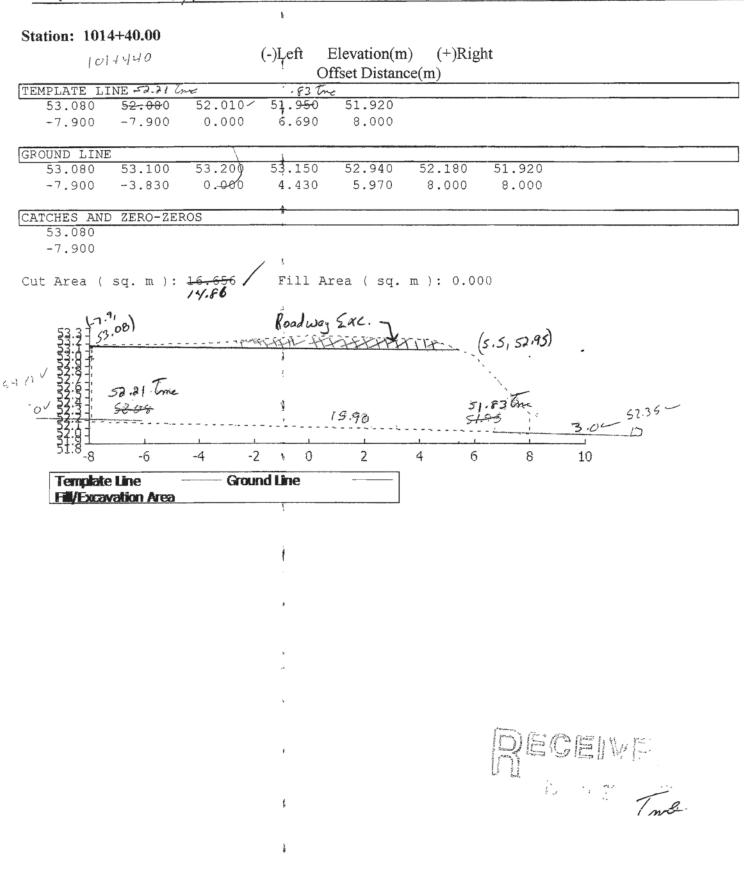
		/		
STA	DIST	Area (m2)	Avg Hrea (m²)	Volume (m3)
161+440	(14.86)	
101+460	20-	10.72	12.79	255.8
101+480	20	10.31	10.52	210.4
161+500	20	11.22	10.77	215.4
101+520	20	10.96	11.09	221.8
10/+540	20	9.78	10.37	207.4
+560	20	8.88	9,33	186.6
101+580	20	10.08	9.48	189.6
1017600	20	11.23	10.66	213.2
	20		11.49	279. F
10/+620	20	11.75	11.85	237
10/+640	20	11.94	11.17	223.4
101+660	20	10.40	12.45	249
101+680		14.50		



TOTAL = 2639. 4 m³

CROSS-SECTION END AREAS REPORT

Project: MT PFH 59-1(2) NE Entrance Road *scription: Sub cut Type 1



STA 101+440

×			*	•	K		land the state of	\mathbf{S}
			🗙 🍑 Go Links 🏞	🖏 • 🛞 Sign In		coordinates x and y of the in order: either clockwise or se you have a polygon with of each polygon and add		
🗟 Irregular Polygon Area Calculator - Microsoft Internet Explorer	Edit View Favorites Tools Help	📀 Back • 😒 · 💌 😂 🏠 🖉 Search 👷 Favortes 🕹 🖉 • 🛃 • 🗌 🎒 🐁	Address 🛃 http://www.analyzemath.com/Geometry_calculators/irregular_polygon_area.html	dali dan olar kura adaratar	Equation Solver How to use the calculator	SEARCH THIS SITE Enter the nurriber of points n that form the irregular polygon and the coordinates x and y of the vertices and press "enter". The vertices coordinates must be input in order: either clockwise or anticlockwise. The output is the area of the irregular polygon. In case you have a polygon with more than 10 vertices, divide it into smaller polygons find the area of each polygon and add them to obtain the total area.	O Web O www.andyramath.com Google Search T_2 7.9 5.97 5.98 5.98 5.97 5.97 5.98 5.97 5.98 5.98 5.98 5.98 5.98 5.98 5.98	en film an der eine ander die Berten en der Gefahr, das verschen en filmen werden, eine Anterne Anterne eine A
3 In	匙	0	Addre	Google				Tonn I

CROSS-SECTION END AREAS REPORT

Project: MT PFH 59-1(2) NE Entrance Road Scription: Sub cut $T \neq \rho \in I$

٤.

ŧ

101-	1460			Elevation(m	, , , +	nt		
				ffset Distan	ce(m)			
TEMPLATE LI		me	52.23 G					
53.170	51:950	52.160 0	52,.430	53.000				
-4.800	-4.800	0.000	6,240	6.240				
GROUND LINE			1				······································	
53.170	53.280	53.310	53.200	53.000				
-4.800	-3.880	0.000	3.830	6.240				
CATCHES AND	ZERO-ZEI	ROS						
53.170 /								
-4.800 🗸	*							
Cut Area (11.504 10,72	Fill An	rea (sq.	m): 0.00	0		
53.6 53.4 53.2 53.0 52.8	8 53.15)	R	ading Loc	Tommerry		1.2,53.16		
53.0							5250	~
52.8 52.6 52.4 52.2	52.11 Trace		11.04			52-23 To	3.0~	
52.07			,	La bart		, ,	1	
3.00	and an other states of the sta	-2 -1	, 0	1 2	3 4	5 6	7	

ţ

ř

,

ł

۰

1

STA 101+460

ł

8

ulator - Microsoft Internet Explorer		🖉 Search 🛒 Favortes. 🕙 🔯 - 🏩 - 🔝 🔊	Address 🛃 http://www.analyzemath.com/Geometry_calculators/irregular_polygon_area.html	🐱 🛃 Search * 👐 👘 🖓 * 🖓 Bookmarks* 🌄 Check * 🕲 AutoFill * 🖉	INEL How to use the calculator	SEARCH THIS SITE Enter the number of points n that form the irregular polygon and the coordinates x and y of the vertices and press "enter". The vertices coordinates must be input in order: either clockwise or anticlockwise. The output is the area of the irregular polygon. In case you have a polygon with more than 10 vertices, divide it into smaller polygons find the area of each polygon and add them to obtain the total area.	www.analyzemath.com	4.8 × × × *	6.24 52.23 6.24 52.23 6.24 53.00 5.24 53.00 5.24 53.00 5.24 53.00 5.24 5.24 5.24 5.24 5.24 5.24 5.24 5.24	4.2 53.16		Etter	Area = 10.7214	More Online Geometry Calculators and Solvers.	
🚵 Irregular Polygon Area Calculator - Microsoft Internet Explorer	iew Favorites Tools He		🛃 http://www.analyzemath.com/Geometry_calcul	ad the mediate mediate and the mean second second mean and the conception of the mean second fields and the second s	Equation Solver	SEARCH THIS SI	🔘 Web 🛞 www.analyzemath.com	in the second second							na ana amin'ny faritr'o amin'ny faritr
🔁 Irrej	eli B	G Back	Address	Google											Done:

FORM FH	IWA 17-348 (12/2007) U.S. DEPARTMEN FEDERAL HIGHWAY Western Federal Land		ON	Date Stamp
FP-03 109	610 E. 5th St. Vancou	ver, Washington 98661		
(a)	Project Name:			Copy Stamp
	Project Number:			· · · · · · · · · · · · · · · · · · ·
(b)	Item Number:	20406		
	Item Description:	Select Borrow		
(c)	Date work performed:			
Daily R	Record Of Miscellane	eous Items		
(g) Supp see at (a) da (b) str	porting sketch and detai ttached docume ily mass record	ls*:	-200 to station 104+220	
(d) Loca				(e) Measured quantity:
		ove	115.7 t	
*Attach a	additional sheets if necessa	ary.	Total Quantity: Unit of Measurement:	115.7
(h) Nam	e of person measuring	work:	Unit of Measurement.	t
()			FHWA Use	Only
(i) 🔳 In	terim Measurement	Final Measurement	Verified By:	5 Only
Leader	4h h - · · · · · · · · · · · · · · ·		Construction Inspector	

I certify the above measurements and calculations are correct and the total quantity is subject to direct payment for the item identified.

(j) Contractor Representative

venneu by.	
Construction Inspector	
Approved	Entered To Record
	Checked By:
FHWA Representative	Date:

WFLHD (Rev 4/9				!	DAILY MASS RECORD						PAGE NO.				
•	,	TPFH	59-1(2)					:							
			Select Bor					å		DAT	E 7-8	PO-7			
	E NO.:			1000	Pay Lot No.: SHEET NO. / OF										
Tix			NET						-			· · · · · · · · · · · · · · · · · · ·			
LOAD NO.	TRUCK NO.	TIME	GROSS MASS (kg)	LOAD NO.	TRUCK NO.	TIME	GROS MASS		LOAD NO.	TRUCK NO.	TIME	GROSS MASS (kg)			
156Z		10:07	00822	110.			110 100	i i				111/100 (Rg/			
	3194	10:47	23460												
1575		11:18	23590					, i							
1585		1150	23020												
1614		2:54	22740												
								ł							
									_						
								,							
								1							
								·							
								1	-	+					
												-			
												1			
				-						1					
								1							
		-													
								t							
											1				
				-				ľ.							
									USE ONLY	Loads	not appe	earing on street			
										11		will be deleted			
					SS (kg)				ž		satisfacto	bry explained.			
				TARE	E (kg)	101	2				LOEDT	FY THIS			
	_			NET	(kg)	1156	10				INFORM				
			metri	c tons	115	5.7	MFT	ł							
										SIGNE	DUMAN	ue sally			
	WE					r: CH		e e		DATE	71	<i>ue beally</i> 08/09			
				CHE	CKED B	Y: 03									
										COMP					
uck F	Re-weigh	1				TH ["]	DOFO		OREE	oonocio-					
	-										· · · · · · · · · · · · · · · · · · ·				
				AC	AGREE WITH DOES NOT AGREE Inspector:										

WFLHD	124			STREET DI			ξ π	PAGE NO.	1
(Rev 12					AD REP		*		······································
"ROJECT: <u>MTPFH 59-1(2)</u>							1		
/EM N	-		Seletborow	-				DATE 7/8	109
SOURC	ENO.:			Pay Lot No	.:		<	SHEET NO.	OF
	TRUČK NO.	TIME	STATION TO STATION	REMARKS	LOAD NO.	TRUCK NO.	TIME	STATION TO STATION	REMARKS
1562	3194	10:17	104+200 -104	1+220					
1571	3194	11:00	104+200-10	041+220			ı 		A
1375	3194	11:29	1041-200-1	04+220					
1585	3194	12:08	104+200-100	4+220			**		
1614	3185	3:14	104+200-1	041220					
							1		
							·		
	· · · · ·						<i>ι</i>		
			· · · · · · · · · · · · · · · · · · ·						
							<u> </u>		
									·
							1		
							,		
				• •			<u>a</u>	·	
							1		
							·,		
							1		

CERTIFICATION

ERTIFY THAT THE ABOVE LOADS WERE PLACED AS SHOWN AND ARE THE SOLE BASIS

Contractor signature Mance Scally_ Received by: Date 7/08/0 Rage4949406/j84

FORM FHWA 17-348 (12/2007) U.S. DEPARTN FEDERAL HIGH Western Federal 610 E. 5 th St. Var	Date Stamp					
(a) Project Na			Copy Stamp			
Project Num						
(b) Item Numl	per: 20701					
Item Descript	on: Eathwork Geotextile	e, Type VIII-B				
(c) Date work perform	ed:					
Daily Record Of Miscel	aneous Items					
(f) Calculations*:						
Crew Installed Fab	ric From 11+696 to	11+765				
Total Length=69m						
Width of Fabric=16	.3m					
Donth of Tropola 1	m v 2 for both oides					
	m x 2 for both sides	s = 2m				
Total Installed: (69)	Total Installed: (69m x 16.3m)+(69m x 2m)= 1262.7 m2					
(g) Supporting sketch and c						
*See attached sheets						
Summary of Quantities			(-) M			
(d) Location:		205	(e) Measured quantity:			
	11+696 to 11+7	/65	1262.7 m2			
*Attach additional sheets if neo	essarv	Total Quantity:	1262.7			
		Unit of Measurement:	m2			
(h) Name of person measu	ing work:					
		FHWA Use	e Only			
(i) 🔲 Interim Measurement	☐ Final Measurement	Verified By:				

Construction Manager

FHWA Representative

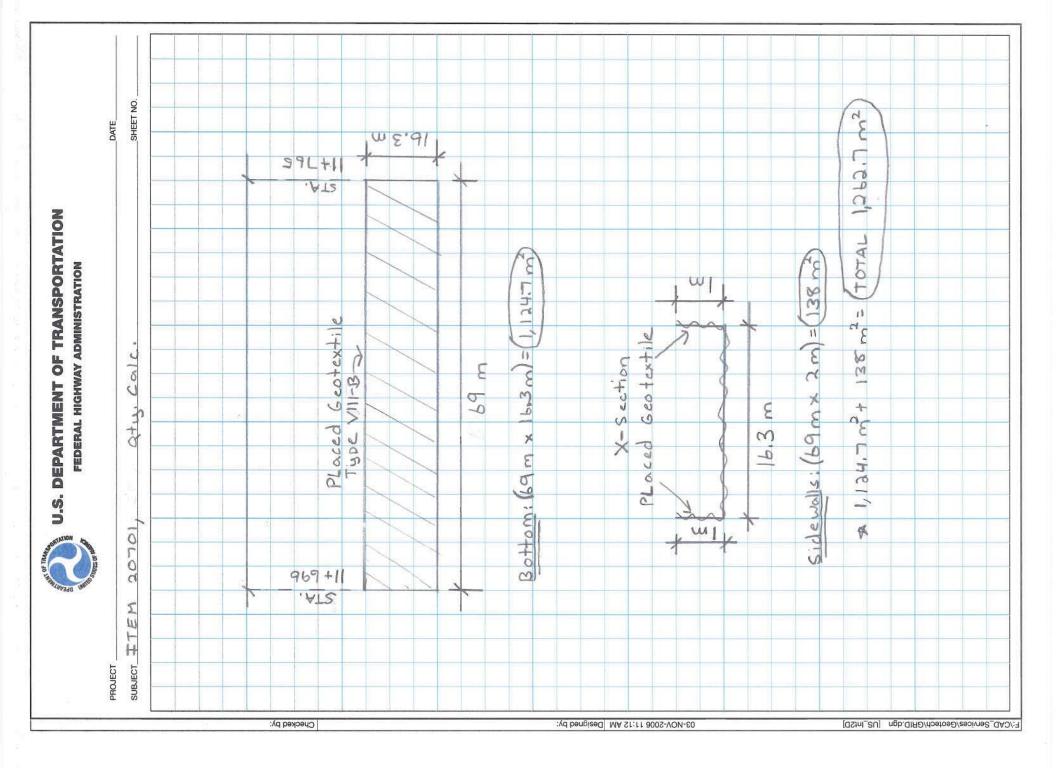
Approved

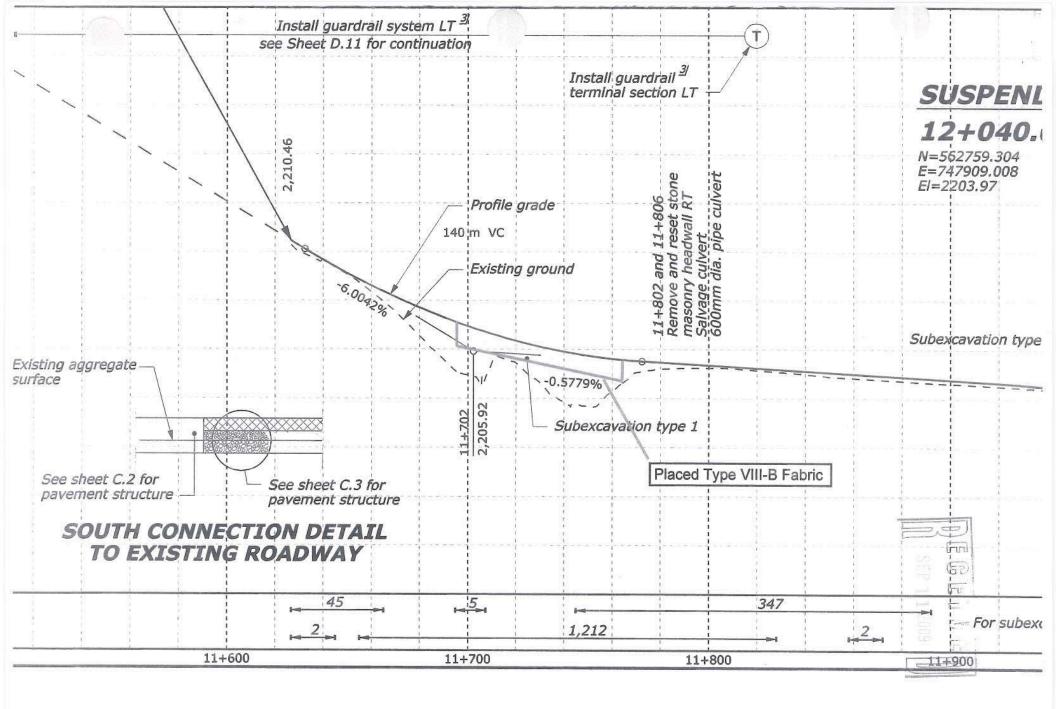
I certify the above measurements and calculations are correct and the total quantity is subject to direct payment for the item identified.

Entered To Record

Checked By:

Date:





FORM FH	FEDERAL HIGHWAY Western Federal Land 610 E. 5th St. Vancour		Date Stamp
(a)	Project Name:		Copy Stamp
	Project Number:		
(b)	Item Number:	21101	
	Item Description:	Roadway Obliteration, method 1	
(c)	Date work performed:		

Daily Record Of Miscellaneous Items

(f) Calo	culations*:		
Oblitera	ation Area Calculations:		
30+00	27' LT, 36' RT = 63'		
00.50		avg. width = 64.5'	area = (64.5')(50') = 3225 sq.ft
29+50	30' LT, 36' RT = 66'	avg. width = 64.5'	area = (64.5)(60) = 3225 arc ft
29+00	24' LT, 39' RT = 63'	avg. width – 04.5	area = (64.5')(50') = 3225 sq.ft
20100	21 21,00 111 00	avg. width = 66'	area = (66')(50') = 3300 sq.ft
28+50	27' LT, 42' RT = 69'	0	
		avg. width = 66'	area = (66')(50') = 3300 sq.ft
28+00	27' LT, 36' RT = 63'		
27+50	27' LT, 36' RT = 63'	avg. width = 63'	area = (63')(50') = 3150 sq.ft
21+30	27 LT, 30 KT - 03	avg. width = 64.5'	area = (64.5')(20') = 1290 sg.ft
27+30	27' LT, 39' RT = 66'	avg. maar ono	
	,		Total = 17490 sq.ft = 1943.3 sq.yd
(a) Sur	pporting sketch and deta	ails*:	

(g) Supporting sketch and details*:

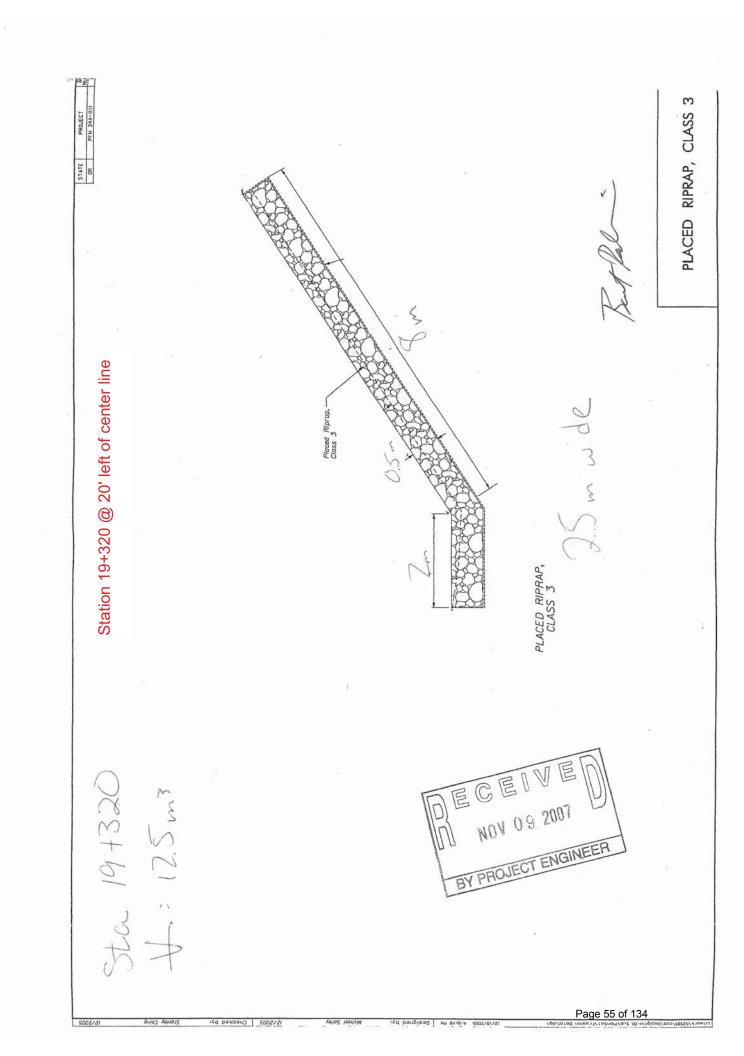
Summary of Quantities

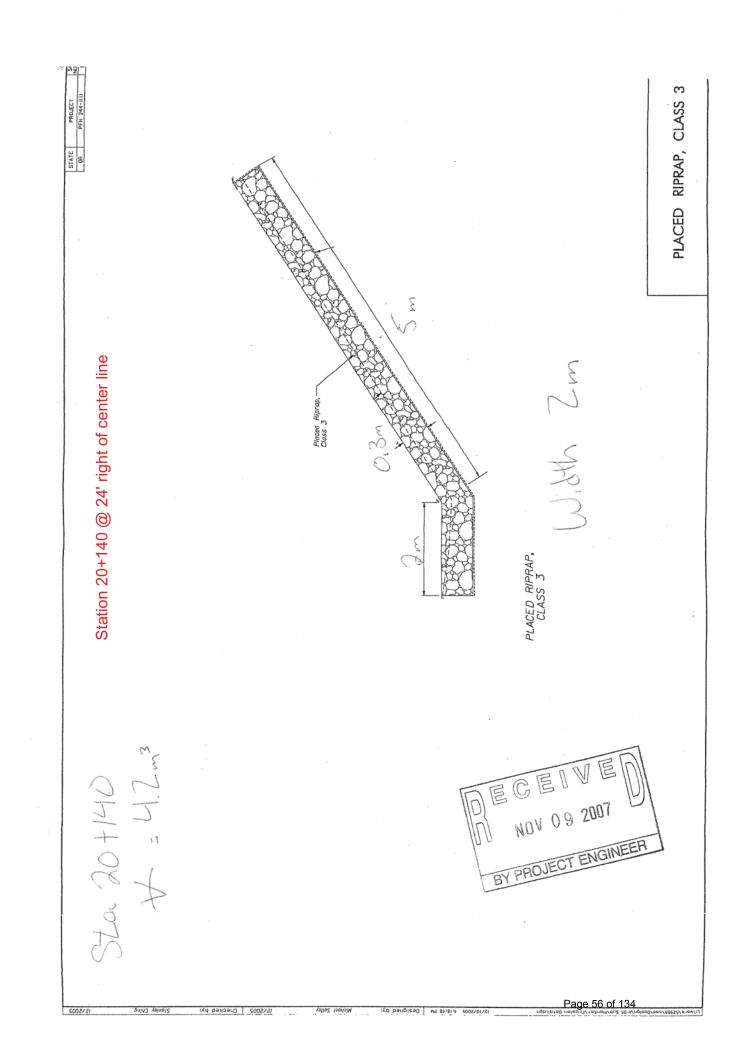
(d) Location:		(e) Measured quantity:
see stations abo	ve	1943.3 sq.yd
*Attach additional sheets if necessary.	Total Quantity:	1943
	Unit of Measurement:	sq.yd

(h) Name of person measuring work:

	FHWA Use Only		
(i) 🔲 Interim Measurement 🔲 Final Measurement	Verified By:		
I certify the above measurements and calculations are correct and the total quantity is subject to	Construction Inspector	_	
direct payment for the item identified.	Approved	Entered To Record	
		Checked By:	
(j) Contractor Representative	FHWA Representative	Date:	

FORM FHWA 17-348 (12/2007) U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION Western Federal Lands Highway Division 610 E. 5 th St. Vancouver, Washington 98661 FP-03 109.01				Date Stamp
(a)	Project Name:			
	Project Number:			Copy Stamp
(b)	Item Number:	25101		
		Placed riprap, class	s 3	
	work performed:			
	Of Miscellane	ous Items		
(f) Calculations				
19+320: 20+140:	10m long x			
	ed placed r	iprap detail		
Summary of (d) Location:	Quantities			(e) Measured quantity:
		see stations ab		16.7 m3
				10.7 110
*Attach additiona	al sheets if necess	ary.	Total Quantity: Unit of Measurement:	17
(h) Name of pe	rson measuring	work:	Unit of Measurement.	m3
()			FHWA Use	Only
(i) 🔳 Interim M	leasurement	Final Measurement	Verified By:	
are correct and	ove measuremer I the total quantit for the item ider		Construction Inspector Approved	Entered To Record
				Checked By:
(j) Contractor F	Representative		FHWA Representative	Date:





FORM	FEDERAL HIGHWAY Western Federal Land 610 E. 5 th St. Vancour		Date Stamp
(a)	Project Name:		Copy Stamp
(-)	Project Number:		Copy Stamp
(b)	Item Number:	25101	
()	Item Description:	Placed riprap, class 2	
(c)	Date work performed:		
Dailv	Record Of Miscellane	eous Items	<u> </u>
		ent at 104+300 LT to 104+447 LT: 2503.2 m3	}
,	pporting sketch and detai		
	attached docume		
(a) a	iverage end area	hand calculation sheet	
	mary of Quantities		
(d) Lo	cation:		(e) Measured quantity:
		see stations above	2503.2 m3

*Attach additional sheets if necessary.

	Unit of Measurement:	m3
(h) Name of person measuring work:		
	FHWA Use	e Only
(i) 🔲 Interim Measurement 🗌 Final Measurement	Verified By:	
I certify the above measurements and calculations are correct and the total quantity is subject to	Construction Inspector	
direct payment for the item identified.	Approved	Entered To Record
		Checked By:
(j) Contractor Representative	FHWA Representative	Date:

Total Quantity:

2503

Sheet Beartooth Highway 1 Detail Class 2 Riping of Iton te 8/29/08 Project No. 2510114 Bv rickson Average SLOPE DEPTHE) SLOPE Volume (m3) OTST (m) LENGTH (m) LENGTHN) STA 6.6 m -104/300 10 1 11 12 120 17.4 m 1 104/310 1/ 210/ 101 21 -24.61 104+320 11 23.3/ 466/ 201 22 ~ 104+340 11 20.6 20 1 4/12 19.2 -104+360 11 20.61 412 20 1 22 1 104 + 380 2' 18.2 -382.2 . 211 14.4 1 1047401 11 259 201 12.951 11.51 1047421 (Klusters Driveway) 11 200 1 10 1047-441 8.5 / (Klusters Drive way) 4/2 7. 6 m 21 5,5' 2503.2 m3 4 1041447 (Klusters Driveway) John 94 Stucky In order to check the As-Builts when the project is 9/2/00 Page 58 of 134 complete, these quantities should also have a reference to center line.

FORM FH	₩A 17-348 (12/2007) U.S. DEPARTMEN ⁻	Date Stamp			
	FEDERAL HIGHWAY				
	Western Federal Land 610 E. 5th St. Vancouv	ver, Washington 98661			
FP-03 109	9.01				
(a)	Project Name:		Copy Stamp		
	Project Number:				
(b)	Item Number:	25103			
	Item Description:	Keyed riprap			
(c)	Date work performed:				
Daily R	Record Of Miscellane	ous Items			
``	ulations*:				
Station	1+005 – End Sectio	on rea Volume = 215.0 m3			
Station	1+015				
Station	Aı 1+030	rea Volume = 729.3 m3			
Station		rea Volume = 789.3 m3			
Station	1+045	$rac Valuma = 605.2 m^2$			
Station	1+060	rea Volume = 695.3 m3			
Otation		rea Volume = 208.5 m3			
Station	1+070 – End Sectio	Total = 2637.4 m3			
(a) Supr	porting sketch and detail	S _* .			
see attached criss-cross + average end area calculation spreadsheet					
	see allached chiss-cross ' average end area calculation spreadsheet				

Summary of Quantities

(d) Location:		(e) Measured quantity:
sees	tations above	2637.4 m3
*Attach additional sheets if necessary.	Total Qua	antity: 2637
	Unit of Measure	ment: m3

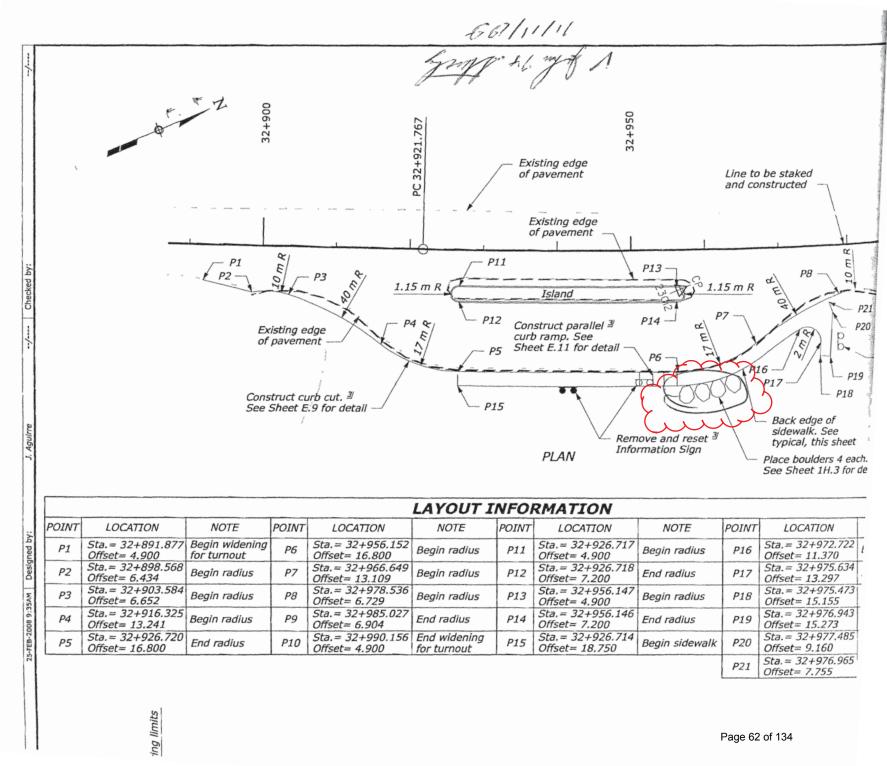
(h) Name of person measuring work:

	FHWA Use Only		
(i) 🔲 Interim Measurement 🔲 Final Measurement	Verified By:		
I certify the above measurements and calculations are correct and the total quantity is subject to	Construction Inspector		
direct payment for the item identified.	Approved	Entered To Record	
		Checked By:	
(j) Contractor Representative	FHWA Representative	Date:	

Criss-Cross average end area method using elevations and distance

Statio											
1005		End sect	ion								
	0.0								0.0		
									Area	Volume	215.0
1015	100.0	100.0	95.0	95.0	93.0	93.0	100.0	100.0			
	15.0	19.0	28.0	35.0	34.0	26.0		19.0			
		1300.0	1520.0	570.0	-837.0	-1767.0		10.0	43.0		
						0000000			Area		
										Volume	729.3
1030	98.9	99.0	94.0	93.8	91.7	91.5	98.9	99.0			
	15.0	19.0	29.0	34.8	33.5	25.0	15.0	19.0			
		1386.0	1485.2	422.1	-898.7	-1692.8	-593.4		54.2	+1	
									Area		
										Volume	789.3
1045	100.0	100.0	95.0	95.0	93.0	03.0	100.0	100.0			
	15.5	20.0	28.0	36.0	35.0	24.5	15.5	20.0			
		1250.0	1520.0	5400 C C C C	-1069.5			20.0	51.0		
					1000.0	-1010,0	-400.0		Area		
									Alta	voiume	695.3
1000			100.00	17-042-0364							
1060	101.3	101.7	96.2	96.2	94.5	94.5	101.3	101.7			
	15.0	19.0	28.0	35.0	34.0	26.0	15.0	19.0			
		1322.1	1539.2	577.2	-850.5	-1795.5	-709.1		41.7		
									Area		
1070	0.01	End section							1.11	Volume	208.5
1070	0.0	End secu	n						0.0		
	0.0								Area		
										Total	2637.4 cubic meters
			100		100						
			15	0-0	19			Placed Rip R	ap		
			Ł	50	5		/				
				2000	A.	/					
				XL	J.O.	5	+-				
				1	0000	17					

2	HWA 17-348 (12/2007) U.S. DEPARTMENT OF TRANSPORTA FEDERAL HIGHWAY ADMINISTRATION Western Federal Lands Highway Division 610 E. 5th St. Vancouver, Washington 98661	ΓΙΟΝ	Date Stamp
FP-03 1	09.01		
(a)	Project Name:		Copy Stamp
	Project Number:		F 7 F
(b)	Item Number: 25125		
	Item Description: Boulder		
(C)	Date work performed:		
Daily	Record Of Miscellaneous Items		
	oporting sketch and details*: attached plan sheet		
	nary of Quantities		Ι
(d) Loo			(e) Measured quantity:
	see stations a	DOVE	4 EA
*Attach	additional sheets if necessary.	Total Quantity:	4
		Unit of Measurement:	EA
(h) Nai	ne of person measuring work:		
		FHWA Us	e Only
(i) 🔳 I	nterim Measurement 🔲 Final Measurement	Verified By:	
are co	the above measurements and calculations rect and the total quantity is subject to parameters the item identified.	Construction Inspector	
airect j	payment for the item identified.	Approved	Entered To Record
(1) 0	terster Denne entri		Checked By:
(j) Con	tractor Representative	FHWA Representative	Date:



đ

FORM	FEDERAL HIGHWAY Western Federal Land 610 E. 5 th St. Vancou		ION	Date Stamp
(a)	Project Name:			Copy Stamp
	Project Number:			oopy oramp
(b)	Item Number:	26201		
	Item Description:	Rockery Wall		
(c)	Date work performed:			
Daily	Record Of Miscellane	eous Items		
(g) Su see ((a) fi (b) ir	apporting sketch and detai attached docume feld cross section regular polygon a	ls*: ntation:	104+61.1 (12' left offset from c	
	cation:			(e) Measured quantity:
· · ·		see stations ab	ove	134.27 m2
*Attacl	n additional sheets if necessa	ary.	Total Quantity: Unit of Measurement:	134.3 m2
(h) Na	ame of person measuring	work:		
(i) 🔳	Interim Measurement	Final Measurement	FHWA Use Verified By:	Only
are co	fy the above measuremen prrect and the total quantit payment for the item iden	y is subject to	Construction Inspector	
			Approved	Entered To Record

FHWA Representative

Checked By:

Date:

Project Sheet Beartooth Highway 1015 S. Montana St. P.O. Box 3588 2 Detail HKM Engineering Inc. Butte, MT 59701 Rockery Woll Square Lootage of_ ton 7/31/08 26201 By 7 Project No. Errelson Pite M 0+0.56= 4 6.2 4.1+0.50 12+0.63=4.83 0.49=4.69 2+0.6= .67 = 4.57 7+ 0.79=2.49 }) 29.14 1.9+0.28=2.18 24.1 30.1 20.1 Sn 11.2 14.7m 18.6 10 2 O AREA = 134.27 m2 Pawps TD D Hrea = 134.3 m2 AUG 0 1 2008 BY PROJECT MANAGER John 74 Steel NOTE! ADDS TO MEASUREMENT ACCOUNTS FOR PORTION OF WALL THAT IS BURIED. John H Stucky 811/08

< > Settings ▼ C < 60 + 🕲 > 2) BY PROJECT MANAGER 🍘 Internet AUG 0.1 2008 \geq Calculus Questions - <u>Geometry Tutonals</u> - <u>Precalculus Applets</u> - <u>Applied Math</u> - <u>Precalculus Questions and Problems</u> -Equations, <u>Systems and Inequalities</u> - <u>Geometry Calculators</u> - <u>Math Software</u> - <u>Elementary Statistics</u> -Home Page - Online Calculators - Trigonometry - Antennas - Graphing - Precalculus Tutorials - Calculus Tutorials U Crogle C. 20 More Online Geometry Calculators and Solvers West Area to 0 to 14.7 Meters こうしい ちんしょうけんしょう かんない うれれてき ちょうれいち (F Rockery Wall Area = 67.1075 ۲ 60 Author - e-mail 5 2.18 4.87 4.83 4.62 8 10 ¢ • ۰ ¢ 0 Search 😒 Favorites 🍋 🖾 👈 ş Enter 8 ittp://www.analyzemath.com/Geometry_calculators/irregular_polygon_area.html المراقفة المراقة المراقفة المراقف irregular Polygon Area Calculator - Microsoft Internet Explorer × L-14.7 10 171 12.2 ▲ 12.2 10 15 1 5 • Ĵ Web 🛞 www.analyzemath.com Updated: 25 November 2007 (A Dendane) 1 Favorites Tools Help http://www.analyzemath.com/geometry.html -3 Google Search 6.5 60/1/B × File Edit View ۶ G Back

Page 65 of 134

V John 74 Stocky

Rockery Wall East Area to 14.7 to 30.1 Meters

3 Irregular Polyson Area Calculator - Microsoft Inter File Edit View Favorites Tools Help	ernet Explorer			[2979]
🕥 Back • 🤍 🙁 🕺 👘 🔪 Search 📎	7. Favortes	1		
is the state of the second	s/irregular_polygon_area.html ~	🛃 😡 👰 Corgle C•	• وه ۵۵ وه دی که در Settings•	
🔿 Web 🛞 www analyzemath.com Google Search	# * *	10 (10 (10 (10 (10 (10 (10 (10 (10 (10 (141
	7 18.6 18.6) \ 0		
	20.1))		
	-30.1	· · ·		
	~ 30.1 ~ 24.1	5.56		
	1 -20.1	1.69	and the second se	
	1 14.7	2.18		
			AUG 0.1 2008	
	Atea=	Atea = 67.1515	BY PROJECT MANAGER	
2	More Online Geometry Calculators and Solvers	liculators and Solvers.		
Horme Page - Online Calcul Calculus Questions - Geomet Equations, Systems	ulators - Trigonometry - Antennas - Gre etry Tutonals - Precatoulus Applets - A s and inequalities - Geometry Catoulato Author - e-mail	Home Page - Online Calculators - Trigonometry - Antennas - Graphing - Precalculus Tutonals - Calculus Tutorials Calculus Questions - Geometry Tutorials - Precalculus Applets - Applied Math - Precalculus Questions and Problems Equations . Systems and inequalities - Geometry Calculators - Math Software - Elementary Statistics - Author - e-mail	ils - Calculus Tutorials luestions and Problems - ntary Statistics -	
Updated: 25 November 2007 (A Dendane)				
🛃 Applet Irregular_Polygons_Areas started	(a) (a) (b) (b) (b) (b) (b) (b) (b) (b) (b) (b	tions for principal station (1) - 11 (2) with the state of the	🚵 Internet	