

gibberta 9:56:03 AM C:\Projects\21254 - SH 67 Cripple Creek to Westcreek\Design\Drawings\21254DES_Grail01.dgn

Begin Station	End Station	Side	202-01130		202-01300		203-00060		210-04035		304-06000		606-00301		606-01370		606-01385		606-01390		606-02003		606-02005	
			Removal of Guardrail Type 3		Removal of End Anchorage		Embankment Material (Complete in CY)		Modify Guardrail (Special) †		AGGREGATE BASE COURSE (CLASS 6)		Guardrail TYPE 3 (6-3 Post Spacing) 31" MGS		Transition TYPE 3G 31" MGS		Transition Type 3J 31" MGS		End Anchorage Type 3K 31" MGS		End Anchorage (Nonflared) 31" MGS		End Anchorage (Flared) 31" MGS	
			LF		EACH		CY		LF		CY		LF		Each		Each		Each		Each		Each	
			Plan	As Const.	Plan	As Const.	Plan	As Const.	Plan	As Const.	Plan	As Const.	Plan	As Const.	Plan	As Const.	Plan	As Const.	Plan	As Const.	Plan	As Const.	Plan	As Const.
1+74	9+08	RT	0.00		0		0		500				0.00		0		0		0		0		0	
12+30	15+99	LT	0.00		0		0		200				0.00		0		0		0		0		0	
19+69	21+22	LT	0.00		0		0		0				0.00		0		0		0		0		0	
23+38	30+62	RT	200.00		1		0		300				200.00		0		0		0		0		1	
34+95	45+72	RT	0.00		0		0		800				0.00		0		0		0		0		0	
42+71	45+35	LT	175.00		1		0		0				175.00		0		0		0		1		0	
45+88	48+68	LT	175.00		1		0		0				175.00		0		0		0		1		0	
46+99	50+73	RT	0.00		0		0		375				0.00		0		0		0		0		0	
50+52	62+40	LT	0.00		0		0		300				0.00		0		0		0		0		0	
68+63	79+72	LT	100.00		1		0		600				100.00		0		0		0		1		0	
85+21	91+76	LT	0.00		0		0		656				0.00		0		0		0		0		0	
115+36	125+08	LT	0.00		0		0		200				0.00		0		0		0		0		0	
228+78	232+74	LT	0.00		0		0		0				0.00		0		0		0		0		0	
308+72	313+63	LT	100.00		1		0		344				100.00		0		0		0		1		0	
315+37	325+35	LT	0.00		0		0		300				0.00		0		0		0		0		0	
335+43	345+73	LT	931.25		0		0		0				931.25		0		0		0		0		0	
354+70	399+69	LT	200.00		0		0		2900				200.00		0		0		0		0		0	
460+09	471+44	LT	100.00		1		0		400				100.00		0		0		0		1		0	
460+30	463+74	RT	243.75		2		0		0				243.75		0		0		0		2		0	
474+08	485+23	LT	0.00		0		0		200				0.00		0		0		0		0		0	
506+50	521+87	LT	0.00		0		0		400				0.00		0		0		0		0		0	
550+28	557+35	LT	0.00		1		0		200				0.00		0		0		0		0		1	
603+60	608+20	RT	200.00		1		0		200				200.00		0		0		0		0		0	
603+71	609+94	LT	0.00		0		0		200				0.00		0		0		0		0		0	
622+14	635+07	LT	1193.75		2		0		0				1193.75		0		0		0		2		0	
639+61	643+10	RT	100.00		1		0		200				100.00		0		0		0		1		0	
644+89	649+89	RT	0.00		2		90		0				600.00		1		0		0		0		2	
654+40	656+19	RT	100.00		2		0		0				100.00		0		0		0		0		2	
686+87	713+96	RT	2606.25		2		0		0				2606.25		0		0		0		2		0	
719+08	722+98	RT	293.75		2		0		0				293.75		0		0		0		2		0	
727+05	738+67	RT	1087.50		2		0		0				1087.50		0		0		0		0		2	
740+57	751+18	RT	987.50		2		0		0				987.50		0		0		0		0		2	
744+21	760+37	LT	0.00		0		0		500				0.00		0		0		0		0		0	
745+58	748+01	LT	168.75		2		0		0				168.75		0		0		0		0		2	
748+17	750+70	LT	150.00		2		0		0				150.00		0		0		0		2		0	
931+97	934+13	RT	0.00		0		0		219				0.00		0		0		0		0		0	
934+76	935+56	LT	0.00		0		0		75				0.00		0		0		0		0		0	
935+56	935+87	LT	0.00		0		0		38				0.00		0		0		0		0		0	
1089+76	1104+70	RT	0.00		0		0		800				0.00		0		0		0		0		0	
1091+24	1092+82	LT	0.00		0		0		80				0.00		0		0		0		0		0	
1129+94	1130+47	LT	0.00		0		0		0				0.00		0		0		0		0		0	
1129+94	1130+47	RT	0.00		0		0		0				0.00		0		0		0		0		0	
1243+67	1244+20	LT	0.00		0		0		0				0.00		0		0		0		0		0	
1243+67	1244+20	RT	0.00		0		0		0				0.00		0		0		0		0		0	
1322+50	1331+95	RT	0.00		0		0		75				0.00		0		0		0		0		0	
1327+62	1331+95	LT	0.00		0		0		0				0.00		0		0		0		0		0	
1331+95	1333+01	RT	0.00		0		0		0				0.00		0		0		0		0		0	
1331+95	1333+01	LT	0.00		0		0		0				0.00		0		0		0		0		0	
1333+01	1335+23	RT	0.00		0		0		0				0.00		0		0		0		0		0	
1333+01	1335+65	RT	0.00		0		0		90				0.00		0		0		0		0		0	
1335+65	1335+86	LT	0.00		0		0		0				0.00		0		0		0		0		0	
1678+00	1686+24	LT	0.00		0		0		825				0.00		0		0		0		0		0	
1703+61	1712+80	LT	818.75		2		0		0				818.75		0		0		0		2		0	
Subtotal A			9931.25		31.00		90.00		11976.25		0.00	0.00	10531.25		1		0		0		18		12	

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Horiz. Scale: 1:1

Vert. Scale: As Noted

Unit Information

Unit Leader Initials



Sheet Revisions

Date:	Comments	Init.

Colorado Department of Transportation



1480 Quail Lake Loop, Suite A
 Colorado Springs, CO 80906
 Phone: 719-227-3231 FAX: 719-227-3298

Region 2

DLH

As Constructed

No Revisions:

Revised:

Void:

Tabulation of Guardrail & Roadside

Designer:	AWG	Structure Numbers	
Detailer:			
Sheet Subset:	GRAIL	Subset Sheets:	1 of 2

Project No./Code

STA 067A-039

21254

Sheet Number **23**

Begin MP	End MP	Begin Station	End Station	Side	202-01130		202-01300		203-00060		210-04035		304-06000		606-00301		606-01370		606-01385		606-01390		606-02003		606-02005		
					Removal of Guardrail Type 3		Removal of End Anchorage		Embankment Material Complete in		Modify Guardrail (Special) †		AGGREGATE BASE COURSE (CLASS 6)		Guardrail TYPE 3 (6-3 Post Spacing) 31" MGS		Transition TYPE 3G 31" MGS		Transition Type 3J 31" MGS		Transition Type 3K 31" MGS		End Anchorage (Nonflared) 31" MGS		End Anchorage (Flared) 31" MGS		
					LF		EACH		CY		LF		CY		LF		Each		Each		Each		Each		Each		
					Plan	As Const.	Plan	As Const.	Plan	As Const.	Plan	As Const.	Plan	As Const.	Plan	As Const.	Plan	As Const.	Plan	As Const.	Plan	As Const.	Plan	As Const.	Plan	As Const.	Plan
Pull Off																											
63.818	64.017	609+94	620+45	LT	0.00		1				0		400.0		1062.50		0		0		0		0		0		1
I-16-AA		APPROACH	LT	0.00		0		45		0				21.75		1		0		0		0		0		1	
		DEPARTURE	LT	0.00		0		45		0				12.50		1		0		0		0		0		1	
64.441		APPROACH	RT	0.00		0		45		0				21.75		1		0		0		0		0		1	
		DEPARTURE	RT	0.00		0		45		0				12.50		1		0		0		0		0		1	
H-16-L		APPROACH	LT	0.00		0		45		0				162.50		1		0		0		0		0		1	
		DEPARTURE	LT	0.00		0		45		0				12.50		1		0		0		0		0		1	
80.145		APPROACH	RT	0.00		0		45		0				162.50		1		0		0		0		0		1	
		DEPARTURE	RT	0.00		0		45		0				12.50		1		0		0		0		0		1	
H-16-M		APPROACH	LT	0.00		0		45		0				187.50		1		0		0		0		0		1	
		DEPARTURE	LT	0.00		0		45		0				450.00		1		0		0		0		0		1	
82.137		APPROACH	RT	0.00		0		45		0				400.00		1		0		0		0		0		1	
		DEPARTURE	RT	0.00		0		0		0				137.50		1		1		1		0		0		0	
Total					9931		32		585		11977		400		13187		13		1		1		18		24		

- Note:
1. Unclassified excavation is for sand clean up under and behind the guardrail.
 2. Unclassified excavation quantity is approximate and removal shall leave at a minimum of 1" of sand on the surface as to not create disturbance of native soil.
 3. All guardrail posts shall be 7 ft., wooden and post holes shall be hammer driven
 4. Contractor shall re-use metal or wooden curb, if in good condition, in-kind and in-place. If wood or metal curb is not salvageable, Contractor shall replace with new in-kind and in-place materials. This shall be included in the cost of the work.
- † Item is for raising w-beam to next highest bolt hole on steel posts

Delineator Replacement (Per M Standard 612)

Begin Station	End Station	Side	202-00090		612-00036	
			Removal of Delineator		Delineator (Flexible) (Square Base)	
			EA		Each	
			Plan	As Const.	Plan	As Const.
2+00	939+89		629		629	
1000+00	1741+35		497		497	
Total			1126		1126	

Rumble Strip

Begin Station	End Station	614-80385							
		Rumble Strip LF							
		Left Travel Lane		Centerline		Right Travel Lane		Total	As Const.
		Plan	As Const.	Plan	As Const.	Plan	As Const.		
2+00	939+46	0		74997		0		74997	
1000+00	1750+66	0		60053		0		60053	
1662+50	RT					11.3		11	
1661+50	RT					11.3		11	
1659+50	RT					11.3		11	
Total				135050		34.0		135084	

- Note:
- Replace all type I delineators in place with Delineator (Flexible) (Square Base) (White), which can seasonally extend from 4' to 8' to accommodate snow depth at Tenderfoot Pass
 - Replace all type III delineators in place with Delineator (Flexible) (Square Base) (Yellow), which can seasonally extend from 4' to 8' to accommodate snow depth at Tenderfoot Pass

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Horiz. Scale: 1:1

Vert. Scale: As Noted

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Sheet Revisions

Date:	Comments	Init.

Colorado Department of Transportation



Region 2

1480 Quail Lake Loop, Suite A
 Colorado Springs, CO 80906
 Phone: 719-227-3231 FAX: 719-227-3298

DLH

As Constructed

No Revisions:

Revised:

Void:

Tabulation of Guardrail & Roadside

Designer:	AWG	Structure Numbers	
Detailer:			
Sheet Subset:	GRAIL	Subset Sheets:	2 of 2

Project No./Code

STA 067A-039

21254

Sheet Number 24