INDIANA DEPARTMENT OF TRANSPORTATION

INTER-DEPARTMENT COMMUNICATION Standards Section – Room N642 Writer's Direct Line 232-6775



June 2, 2005

DESIGN MEMORANDUM No. 05-16 TECHNICAL ADVISORY

TO:All Design, Operations, District Personnel, and ConsultantsFROM:/s/ Dannie L. Smith
for Anthony L. Uremovich
Design Policy Engineer
Contracts and Construction DivisionSUBJECT:Guardrail End Treatment Spare Parts PackagesEFFECTIVE:January 18, 2006 Letting

If guardrail end treatments are required, the designer should contact the appropriate district operations engineer regarding the number of each type and stage of spare parts packages desired. The district operations engineer will provide the number of each required, along with the delivery location. Only one delivery address will be allowed per contract. Recurring Special Provision 601-R-237, Spare Parts Package for Guardrail End Treatment, should be modified to incorporate this information and included in the contract documents. Copies of the revised 601-R-237 and the spare parts lists are attached for your information.

The following pay items have been established for the spare parts packages.

601-08435 Guardrail End Treatment, Type MS, Spare Parts Package, Stage 1......EACH 601-08436 Guardrail End Treatment, Type MS, Spare Parts Package, Stage 2.....EACH 601-08433 Guardrail End Treatment, Type OS, Spare Parts Package, Stage 1EACH 601-08434 Guardrail End Treatment, Type OS, Spare Parts Package, Stage 2EACH

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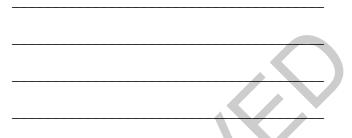
Attachments

SPARE PARTS PACKAGE FOR GUARDRAIL END TREATMENT

The Standard Specifications are revised as follows:

SECTION 601, AFTER LINE 123, INSERT AS FOLLOWS:

The spare parts package(s) shall be delivered to the following address.



SECTION 601, AFTER LINE 157, INSERT AS FOLLOWS:

Guardrail end treatment spare parts package will be measured per each for the type of guardrail end treatment for which it is specified and per the stage specified.

SECTION 601, AFTER LINE 167, INSERT AS FOLLOWS:

Guardrail end treatment spare parts package will be paid for at the contract unit price per each for the type of guardrail end treatment for which it is specified and per the stage specified.

SECTION 601, AFTER LINE 183, INSERT AS FOLLOWS: Guardrail End Treatment, ____, Spare Parts Package, ____.....EACH type stage

Spare Parts Packages for INDOT Approved Guardrail End Treatments OS May, 2005

			Stage 1 Spare Parts Package		Stage 2 Spare Parts Package			
Unit	Туре	Manufacturer	Option	Qty	Item	Option	Qty	ltem
ET Plus SKT 350	Guardrail End Treatment, OS Guardrail End Treatment, OS	Trinity Industries, Inc. Road Systems, Inc.	All Options	1	1x25' 12 gauge deep beam guardrail (1st rail section) Strut Assembly	All Options	1	1x25' 12 gauge deep beam guardrail (1st rail section) Strut Assembly
Note:	Spare parts packages are associated hardware with	the specified items.		1	Front Anchor Cable Cable Anchor		1	Front Anchor Cable Cable Anchor
	A Stage 1 Spare Parts Pac repair a minor hit. A Stage 2 Spare Parts Pac repair a 100% design hit.		l Pos on ir datio be	4	Wood Post Blockout	Wood Post Option in Foundation Tube	8 6	Wood Post Blockout
			Steel Hinged Post Option	1 1 2 2	Post #1 Top Post #2 Top Post #3-#4 Top Blockout	Steel Hinged Post Option	1 1 2 2	Post #1 Top Post #2 Top Post #3-#8 Top Blockout
		P	Steel Post Option in Foundation Tube	4 2	Post Blockout	Steel Post Option in Foundation Tube	8 6	Post Blockout

Spare Parts Packages for INDOT Approved Guardrail End Treatments MS

May, 2005

			Stage 1 Spare Parts Package		Stage 2 Spare Parts Package		
CAT 350	Guardrail End Treatment, MS	Trinity Industries, Inc.	2	12 gauge slotted guardrail section	2	12 gauge slotted guardrail section	
		•	1	Nose plate	2	10 gauge slotted guardrail section	
Notes:	Spare parts packages are to include all associated hardware with the specified items.		2	Side plates (nose)	1	Nose plate	
	-	Stage 1 Spare Parts Package includes parts to		Restraint rod	2	Side plates (nose)	
	A Stage 2 Spare Parts Pac repair a 100% design hit.	ckage includes parts to	1	Spacer channel	2	Knockout tube sleeve	
			1	Strut assembly	2	Restraint rod	
			1	Front anchor cable	1	Spacer channel	
		C	1	Plate sleeve (post #1)	1	Strut assembly	
				Wood post #1	1	Front anchor cable	
			2	Wood post #2-#3	2	Post plate (post #4)	
			2	Blockout post #1	1	Plate sleeve (post #1)	
			4	Blockout post #2-#3	1	Wood post #1	
					:	5 Wood post #2-#6	

Spare Parts Packages for INDOT Approved Guardrail End Treatments MS Continued

May, 2005

			Stag	e 1 Spare Parts Package	Stag	je 2 Spare Parts Package
FLEAT MT	Guardrail End Treatment, MS	Road Systems, Inc.	1	W-Beam guardrail end section, 12 ga 12'-6"	2	W-Beam guardrail end section, 12 ga 12'-6"
			1	W-Beam guardrail, 12 ga 12'-6" (pre bent)	1	W-Beam guardrail, 12 ga 12'- 6" (pre bent)
Notes:	Spare parts packages are hardware with the specifi	to include all associated ed items.	1	Bearing Plate	1	W-Beam guardrail, 12 ga 12'· 6"
	A Stage 1 Spare Parts Pa repair a minor hit.		1	BCT Cable Anchor Assembly	1	W-Beam guardrail, 12 ga 6'- 3"
	A Stage 2 Spare Parts Pa repair a 100% design hit.	ckage includes parts to	1	Ground Strut	2	Bearing Plate
			3	Wood Post (Posts #1-#3)	2	BCT Cable Anchor Assembly
			1	Blockout (Post #3)	1	Ground Strut
			1	Post Breaker	7	Wood Post (Posts #1-#7)
			1	Pipe Sleeve	9	Blockout (Post #3-#7)
					1	Post Breaker
					2	Pipe Sleeve
					1	Deflector Box
					1	3/8" Wire 20'-0"