



STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION

ROY COOPER  
GOVERNOR

JAMES H. TROGDON, III  
SECRETARY

March 10, 2017

**ADDENDUM # 1**

To: Plan Holders

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From: Wanda H. Austin, P.E.  
Division 14 Project Team Lead

RE: **Pay Item Change, Installation Guidance Exhibits Provided,  
Question & Answer, Pre-bid Meeting Minutes and Sign-in  
Sheet**

Contract ID: DN00546  
County: Transylvania  
Letting Date: March 14, 2017

The following are questions posed by bidders, along with the corresponding responses.

**Question 1:** Explain how to transition from 31" Strong Post install height to existing bridge rail attachment?

**Answer 1:** Contractor shall transition over minimum of 25'.

**Question 2:** Shall existing rub rail be reused?

**Answer 2:** No; all existing components to be replaced. Note: the new rub rail shall be installed at the original height; it does not get raised like the W-beam rail.

**Question 3:** Since Joel Howerton approved the contractor to use the regular GRAU TL-3 350 end unit, the contractor will use pay item line 004?

**Answer 3:** No 3270000000-N will NOT be used; a pay item change has been made. A revised page T-1 (Itemized Proposal For Contract No. DN00546) has been generated, this is included elsewhere in this document.

**Question 4:** Since the installed height of the regular GRAU 350 is 29" and the installed height of the T-31 Guardrail is 31" could he get a specification or wording from the NCDOT to transition the height difference from 29" to 31"?

**Answer 4:** The end units for the strong post have to be NCHRP TL-3 350 end units at 31". In other words the regular GRAU TL-3 350 end unit can be used and installed at the 31" top of rail height. (See the attached 31 inch mounting height installation guidance pdf files 20-25).

**Question 5:** The lapped connection of the W beam to a standard guardrail post occurs AT the post... in the instance of using a T-31 post, the lapped connection of the W beam to a T-31 post occurs between the posts. Can we give an exception for this difference in connection locations?

**Answer 5:** They should lap the guardrail mid-span as required in the manufacturer's specifications. They should use a 15'-7 1/2" w beam panel to connect the T-31 guardrail to the GRAU-350 unit. Should the 15'-7 1/2" w beam panel not be available, a 25' w beam panel may be cut to length. (See the attached 31 inch mounting height installation guidance pdf files 20-25).

**Question 5:** Is it permissible to install the B-77 bridge attachments at the 31" height and modify the post spacing / lapped connection to meet the T-31 manufacturer's installation instructions?

**Answer 6:** Yes. The B-77 can be installed at the 31" height. They should use a 15'-7 1/2" w beam panel to connect the T-31 guardrail to the B-77 unit. Should the 15'-7 1/2" w beam panel not be available, a 25' w beam panel may be cut to length. (See the attached 31 inch mounting height installation guidance pdf files 20-25).

**Question 7:** Because there is no Trinity mash compliant B-77 or B-83 equivalent end unit (per Joel Howerton), the contractor needs guidance on what pay item to use?

**Answer 7:** For those circumstances where B-77 or B-83 are applicable, use the existing pay items/materials, along with the attached 31 inch mounting height installation guidance pdf files 20-25.

The following revisions to the proposal are required:

1. Bonds are NOT required, so pages S-3 through S-9 should be removed from the proposal.
2. **Delete** pay item number **3195000000-N**, **replace it with** pay item number **3180000000-N**. The quantity does not change. (See the attached revised page T-1 (Itemized Proposal For Contract No. DN00546).

**Note: Installation Guidance Exhibits have been included with this addendum.**

Please access ebs addenda files on Bid Express®.

Please insert this letter into the addendum section of the proposal and sign the verification. Thank you for your attention to this matter.

Mar 10, 2017 1:53 pm

County : Transylvania

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
<b>ROADWAY ITEMS</b>						
0001	0000100000-N	800	MOBILIZATION	Lump Sum	L.S.	
0002	3030000000-E	862	STEEL BM GUARDRAIL	275 LF		
0003	3195000000-N	862	GUARDRAIL ANCHOR UNITS, TYPE AT-1	1 EA		
0004	3180000000-N	862	GUARDRAIL ANCHOR UNITS, TYPE ***** (TYPE 350 (TL-3))	3 EA		
0005	3360000000-E	863	REMOVE EXISTING GUARDRAIL	1,250 LF		
0006	3421000000-E	862	GENERIC GUARDRAIL ITEM (31" STRONG POST CORRUGATED BE AM GUARDRAIL SYSTEM)	5,550 LF		
0007	3421000000-E	862	GENERIC GUARDRAIL ITEM (EXTRA LENGTH GUARDRAIL POST)	90 LF		
0008	3421000000-E	862	GENERIC GUARDRAIL ITEM (STRONG POST CORRUGATED BEAM G UARDRAIL- EXTRA LENGTH POST)	296 LF		
0009	3421000000-E	862	GENERIC GUARDRAIL ITEM (STRONG POST CORRUGATED BEAM G UARDRAIL- SHOP CURVE)	50 LF		
0010	3436000000-N	862	GENERIC GUARDRAIL ITEM (MASH COMPLIANT 350 EQUIVALENT END UNIT)	15 EA		
0011	3436000000-N	862	GENERIC GUARDRAIL ITEM (MASH COMPLIANT AT-1 EQUIVALEN T END UNIT)	3 EA		
0012	3436000000-N	862	GENERIC GUARDRAIL ITEM (MASH COMPLIANT B-77 EQUIVALEN T BRIDGE ATTACHMENT)	4 EA		
0013	3436000000-N	862	GENERIC GUARDRAIL ITEM (MASH COMPLIANT B-83 EQUIVALEN T BRIDGE ATTACHMENT)	4 EA		

County : Transylvania

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Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0014	4399000000-N	1105	TEMPORARY TRAFFIC CONTROL	Lump Sum	L.S.	

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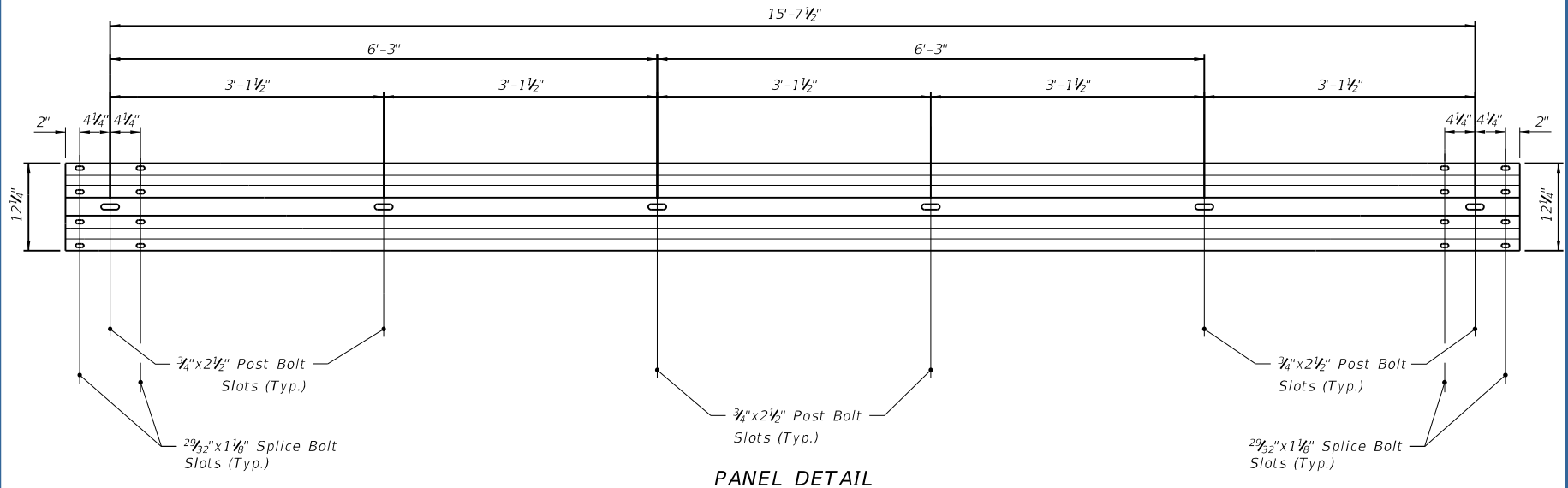
1353/Mar10/Q7543.0/D44592100000/E14

Total Amount Of Bid For Entire Project :

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# Part 1 – Major Changes

## ■ 15' - 7½" W-Beam Panel (5 Space)



Standard 15'-7½" W-Beam Panel with 6 Slots

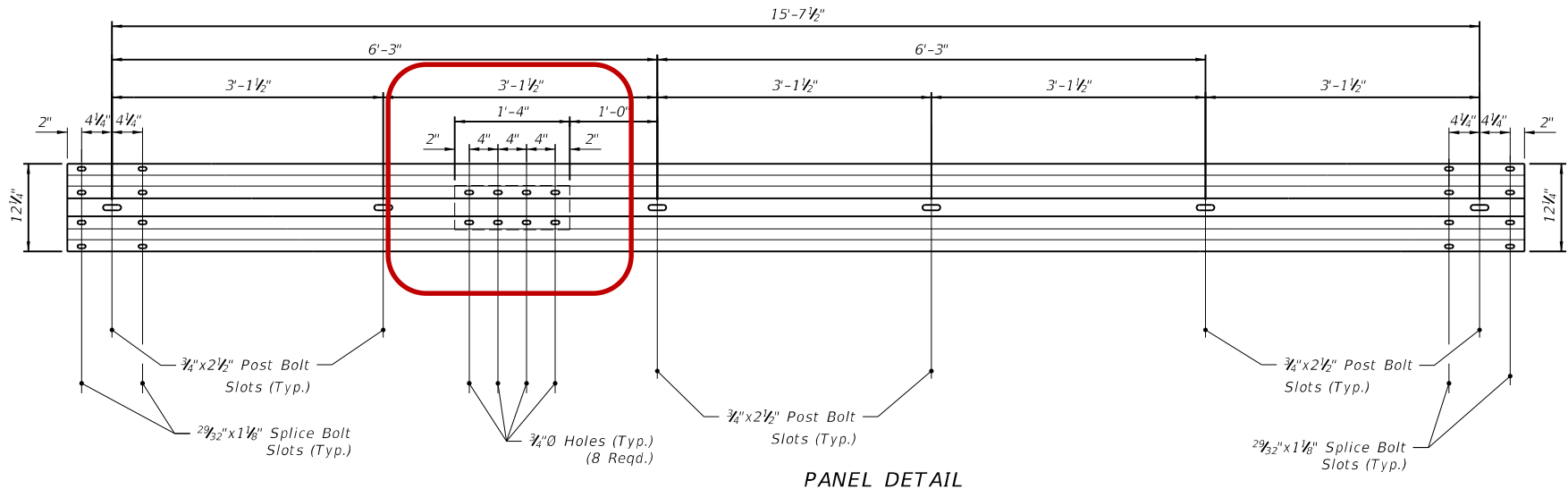
# Part 1 – Major Changes

## ■ Design Standards – Index 400

Summary of Major Changes to Guardrail			
Criteria	Existing	New	Sheet Number
End Anchorage Assembly Type II Or Type CRT	Required a 12'-6" W-Beam End Anchorage Panel with Beam Anchor Plate Attachment	Requires a 15'-7 ½" W-Beam End Anchorage Panel with Beam Anchor Plate Attachment	20D and 23A
Approach End Anchorage Assemblies Flared and Parallel	End Anchorage Assembly Flared 50'-0" Parallel 37'-6" Assembly Length	End Anchorage Assembly Flared 53'-1 ½" Parallel 53'-1 ½" Assembly Length	2
Guardrail Height Transition from 27" to 31"	1'-9" Mounting Height	2'-1" Mounting Height	13B

# Part 1 – Major Changes

## ■ End Anchorage Assembly Type II or Type CRT

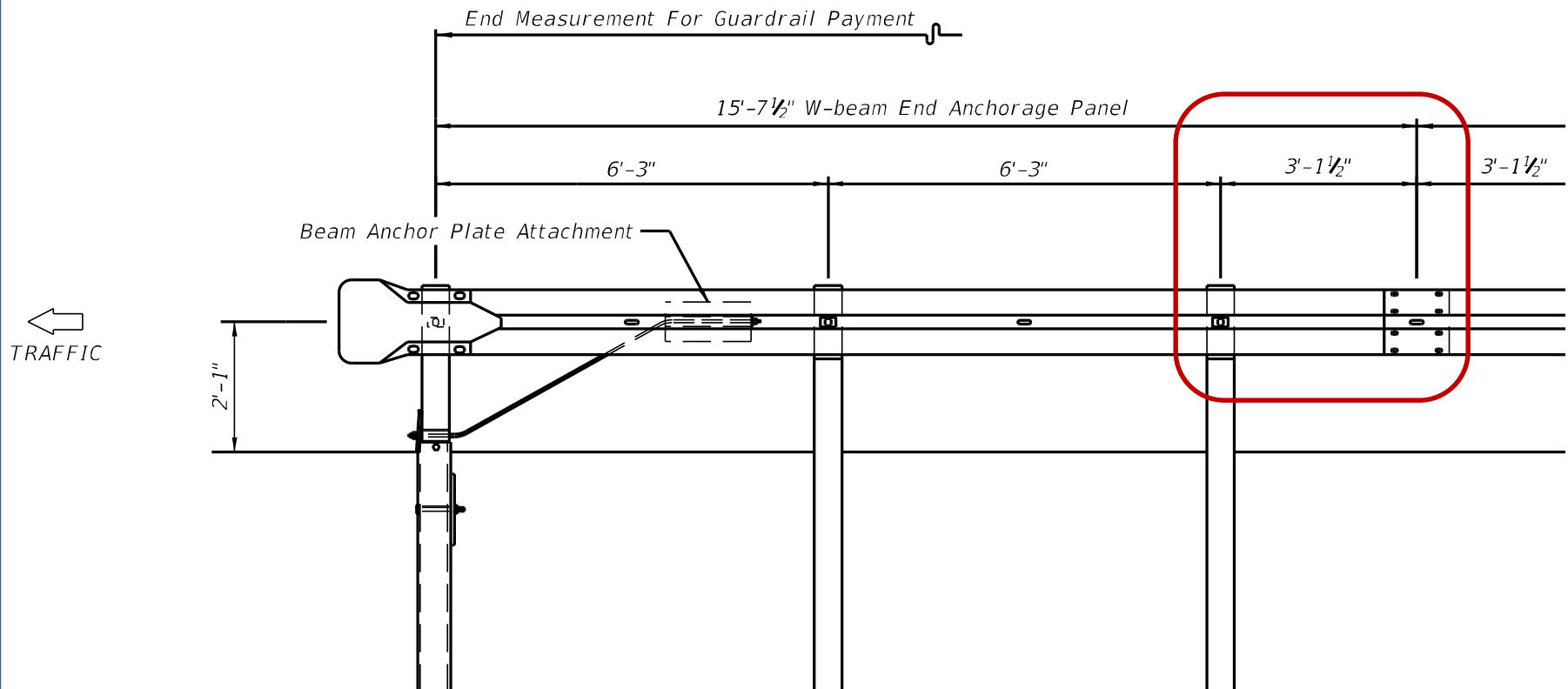


15'-7 1/2" Panel With Beam Anchor Plate Attachment



# Part 1 – Major Changes

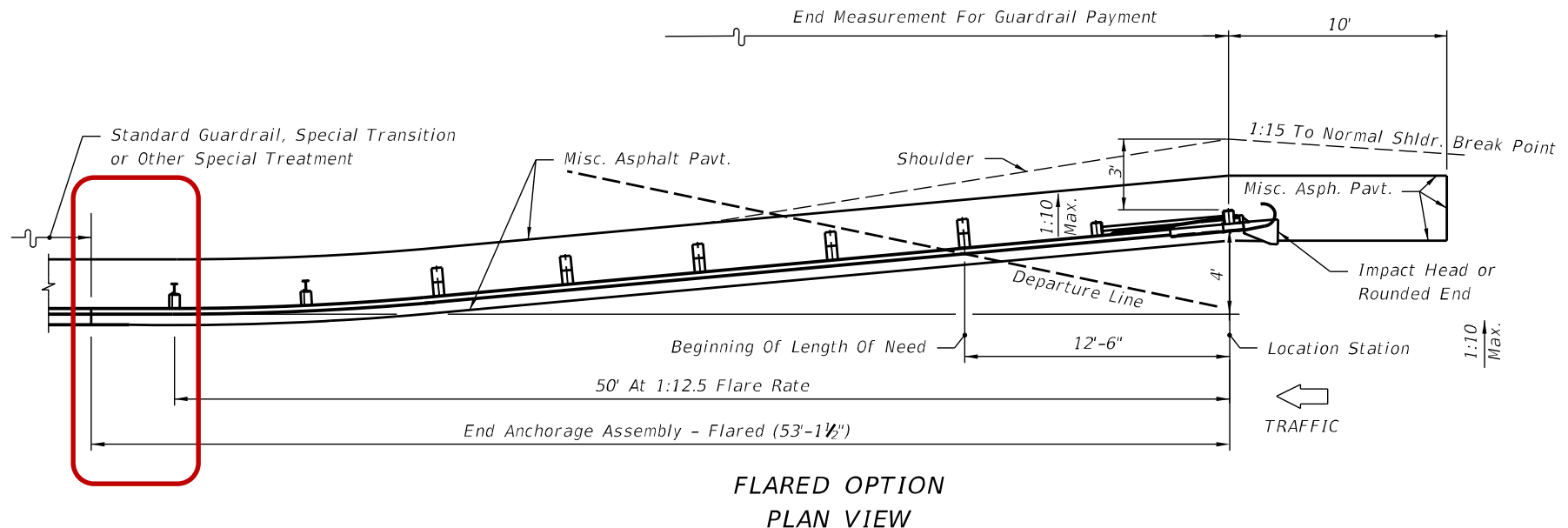
## ■ End Anchorage Assembly Type II (Elevation View)



Account for the Added 3'-1 1/2" Panel Length in your Length of Need (LON) Calculations

# Part 1 – Major Changes

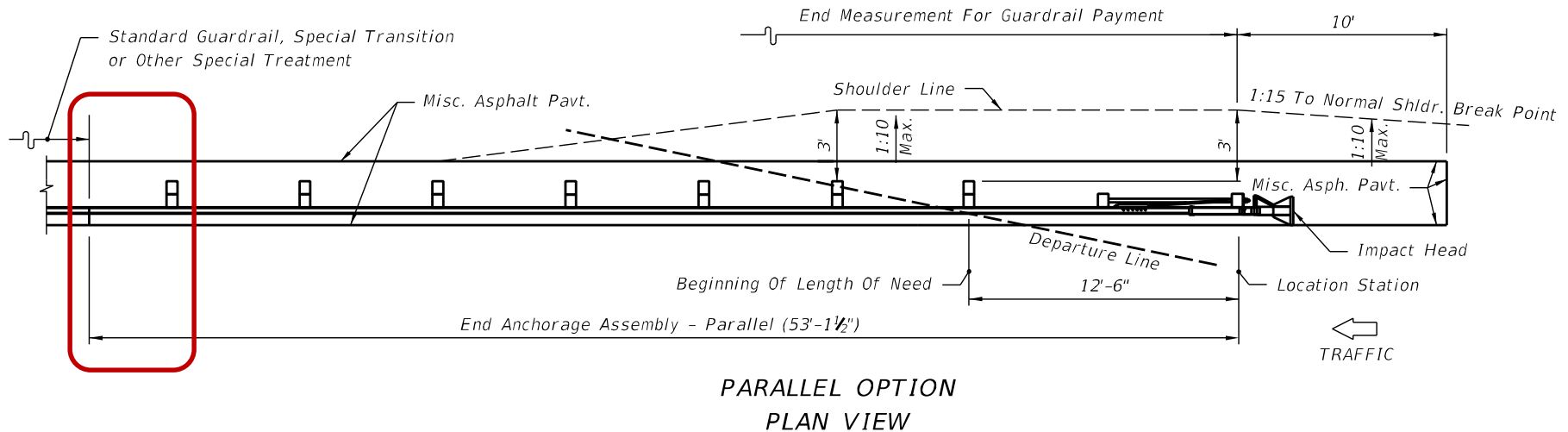
## ■ Approach End Anchorage Details (Flared 53' - 1 ½'')



Account for the Added 3'-1 ½'' Panel Length in your Length of Need (LON) Calculations

# Part 1 – Major Changes

## ■ Approach End Anchorage Details (Parallel 53' - 1½")

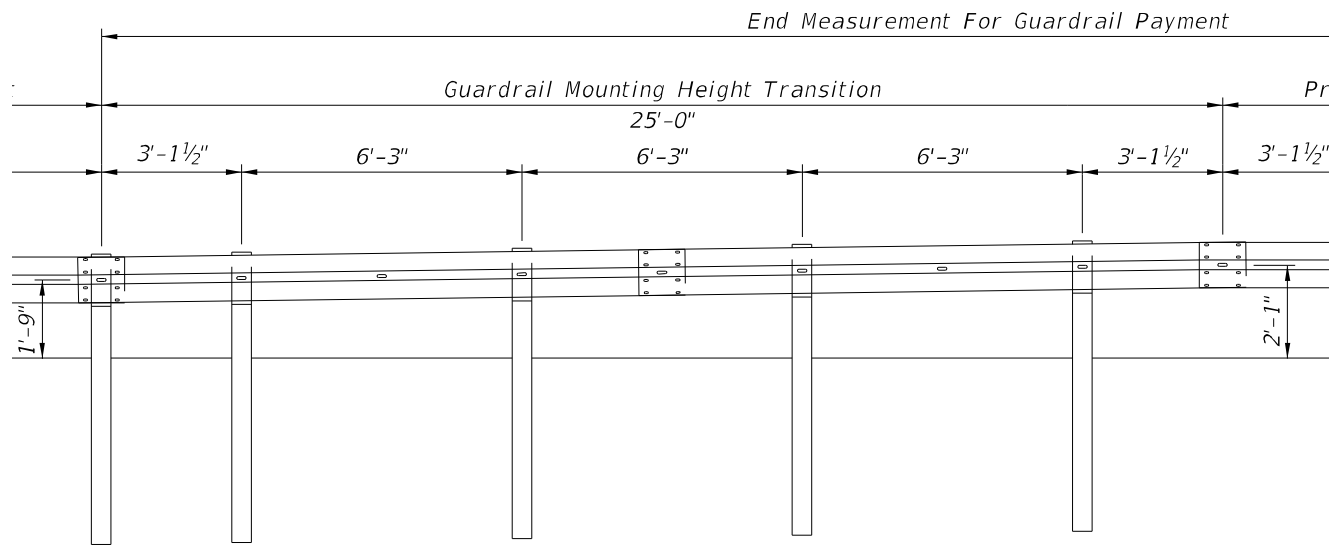


Account for the Added 3'-1½" Panel Length in your Length of Need (LON) Calculations

# Part 1 – Major Changes

## ■ Guardrail Mounting Height Transition Detail

Transition from 1'-9" to 2'-1" W-Beam Guardrail Mounting Height



Shall be Used to Transition at the Begin and End Project Limits or in Special Cases As Directed by the Engineer



STATE OF NORTH CAROLINA  
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March 6, 2017

MEMORANDUM TO: Meeting Attendees

FROM: Renee Chambard  
NCDOT Assistant District Engineer

TIP NO: SS-4914CL / W-5601FM  
CONTRACT NO: DN00546  
WBS NO: 44769.3.1 / 50138.3.170

DESCRIPTION: Barclay Road (SR 1207) and Wilson Road (SR 1540) GR replacement upgrades  
SUBJECT: Mandatory Pre Bid Meeting Minutes

The above noted mandatory pre-bid meeting was held on March 6, 2017 at the NCDOT Transylvania County Maintenance Office in Rosman, NC at 10:00 am. The following people were in attendance.

Colin Tice	Bagwell Construction Company
Jason Duncan	Bullington Construction Company
Mike Bullington	Bullington Construction Company
Renee Chambard	NCDOT

The meeting was conducted by Renee Chambard – Ms. Chambard addressed the following high points of the proposal and fielded questions from attendees.

**General Items:**

- Only Contractors present at the pre-bid meeting may present bids.
- Bid Bonds are NOT required for this contract in contrast to wording on page G-6 of the proposal.
- **Date of Availability** - is the date the Contractor begins work but not before **May 9, 2017** or later than **July 7, 2017**.
- **Completion Date** – is **forty-two (42)** consecutive calendar days **after and including** the date of availability.
- Liquidated Damages are **\$500.00 per calendar day**.

*Mailing Address:*  
NC DEPARTMENT OF TRANSPORTATION  
DIVISION 14, DISTRICT 1  
4142 HAWOOD ROAD  
MILLS RIVER, NORTH CAROLINA 28759

*Telephone:* (828) 891-7911  
*Fax:* (828) 891-5026  
*Customer Service:* 1-877-368-4968

*Location:*  
4142 HAYWOOD ROAD  
MILLS RIVE, NORTH CAROLINA 28759

*Website:* [www.ncdot.gov](http://www.ncdot.gov)

- Liquidated Damages for Intermediate Contract Time #1 are **\$250.00 per hour**.
- DBE Goal – **4%**
- All the replacement / installed guardrail on sites B-1, B-2, B-3, W-1, W-2, W-4 and W-5 must use a Strong Post Corrugated Beam Guardrail System. All end units and bridge attachments for these sites should be 31” MASH equivalent products.
- For site W-3 the contractor will use plan sheet 2B-2 to fabricate the entire replacement of the guardrail system across the bridge. These plans replace in kind the existing system.

All plan sheets were reviewed.

Any questions are to be directed to Jeffrey Alspaugh, NCDOT Proposal Engineer, at 828-586-2141.

RCC/rcc

Attachments

Cc: file

PreBid Meeting DN00546 - Installation of Guardrail at Various sites in Transylvania County

SR 1207 Barclay Road & SR 1540 Wilson Road

Monday, March 06, 2017

Name of Attendee	Company	email Address	Phone Number
Edin Tico	BAGWELL FENCE CO	ETICO@BAGWELLFENCE.COM	864.398.1420
Jason Duncan	Bullington Const.	jasondebullingtonconstruction.com	704-681-1404
Mike Bullington	BULLINGTON CONST	MIKEB@BULLINGTONCONSTRUCTION.COM	704-681-0742
Aerie Chambard	NCDOT	aechambard@ncdot.gov	828-891-7911