

**PROJECT SPECIAL PROVISIONS**

Roadway

7-1-95

SP1R01

**CLEARING AND GRUBBING:**

9-17-02

Perform clearing on this project to the limits established by Method "III" shown on Standard No. 200.03 of the Roadway Standards.

The 2002 Standard Specifications shall be revised as follows:

Page 2-3, Article 200-5

Delete the first sentence of this article and insert the following:

The property owner will have no right to use or reserve for his use any timber on the project. All timber cut during the clearing operations is to become the property of the Contractor, and shall be either removed from the project by him, or else shall be satisfactorily disposed of as hereinafter provided.

Clearing and grubbing at the site shall have been performed in accordance with Article 200-3, 200-4 and 200-5 of the Standard Specifications.

Payment for "Clearing and Grubbing" will be included at the lump sum bid price for "Excavation and Embankment". This price shall be full compensation for all materials, tools, equipment, labor and for all incidentals necessary to complete the work.

SP2R01

**EXCAVATION AND EMBANKMENT:**

The Contract shall perform all work required to construct the embankments as required by the plans. All work shall be in accordance with Section 225 and Section 230 of the Standard Specifications.

Measurement and payment will be at the contract lump sum price for "Excavation and Embankment".

**BORROW EXCAVATION:**

**2-19-02**

Revise the 2002 Standard Specifications as follows:

Page 2-20, Article 230-6

After the first paragraph, insert the following paragraph:

"No direct payment will be made for the work of Evaluation of Potential Wetlands and Endangered Species as outlined above. Payment at the contract unit price for the pay item "Excavation and Embankment" will be considered full compensation for this work."

SP2R37

**ASPHALT BINDER CONTENT OF ASPHALT PLANT MIXES:**

**11-21-00R**

The approximate asphalt binder content of the asphalt concrete plant mixtures used on this project will be as follows:

Asphalt Concrete Base Course, Type B 25.0__	4.3%
Asphalt Concrete Intermediate Course, Type I 19.0__	4.7%
Asphalt Concrete Surface Course, Type S 4.75A	7.0%
Asphalt Concrete Surface Course, Type SF 9.5A	6.5%
Asphalt Concrete Surface Course, Type S 9.5__	6.0%
Asphalt Concrete Surface Course, Type S 12.5__	5.5%

The actual asphalt binder content will be established during construction by the Engineer within the limits established in the Standard Specifications or Project Special Provisions.

SP6R15

**CONSTRUCTION SURVEYING:**

**01-20-04**

Add the following after the first sentence of Section 801-1 of the January 2002 Standard Specifications:

Provide a stakeout of areas where an environmental permit is required prior to performing any construction in or adjacent to these areas. Stake out limits of the permitted work areas according to the approved permit drawings. Provide clear delineation by use of pink or other highly visible flagging. Insure construction limits do not exceed approved permitted work areas. Immediately notify the Resident Engineer of any variations of the stakeout limits when compared to the approved permit drawings.

Replace the fifth paragraph of Section 801-4 of the January 2002 Standard Specifications with the following:

Partial payments for the item of "Construction Surveying" will be made on each particular payment estimate based upon the percentage complete of the item of "Construction Surveying" as determined by the Engineer. The Contractor is required to submit a certified statement each month indicating the percentage of "Construction Surveying" work completed. The Resident Engineer will determine if the amount indicated is reasonably correct and the Resident Engineer will pay accordingly on the next partial pay estimate.

SP8R02

**DISPOSAL OF WASTE AND DEBRIS:**

2-19-02

Revise the 2002 Standard Specifications as follows:

**Page 8-9, Subarticle 802-2(7. Buffer Zones:)**

At the end of the last sentence in this subarticle, add the words "unless superseded by an environmental permit."

SP8R03

**AGGREGATE PRODUCTION:**

11-20-01

Provide aggregate from a producer who utilizes the new Aggregate Quality Control/Quality Assurance Program that is in effect at the time of shipment.

No price adjustment is allowed to contractors or producers who utilize the new program. Participation in the new program does not relieve the producer of the responsibility of complying with all requirements of the Standard Specifications. Copies of this procedure are available upon request from the Materials and Test Unit.

SP10R05

**CONCRETE BRICK AND BLOCK PRODUCTION:**

11-20-01

Provide concrete brick and block from a producer who utilizes the new Solid Concrete Masonry Brick/Unit Quality Control/Quality Assurance Program that is in effect on the date that material is received on the project.

No price adjustment is allowed to contractors or producers who utilize the new program. Participation in the new program does not relieve the producer of the responsibility of complying with all requirements of the Standard Specifications. Copies of this procedure are available upon request from the Materials and Test Unit.

SP10R10

**FINE AGGREGATE:**

**11-19-02**

Revise the 2002 Standard Specifications as follows:

Page 10-17, Table 1005-2

Make the following change to the table:

For Standard Size 2MS the following gradation change applies.

The minimum percent shown for material passing the No. 8 (2.36mm) sieve has been changed from 84 to **80**.

SP10R15

**BORROW MATERIAL**

**02-17-04**

Revise the 2002 Standard Specifications as follows:

Page 10-44

Section 1018-2 II (b) Delete the last sentence in its entirety.

SP10R17

**GUARDRAIL POSTS AND OFFSET BLOCKS:****1-21-03**

Revise the 2002 Standard Specifications as follows:

Page 10-69, Subarticle 1046-3

Delete this sub-article in its entirety and replace with the following:

**1046-3 POSTS AND OFFSET BLOCKS.****(A) General:**

The Contractor may, at his option, furnish either of the following types of guardrail posts. Only one type of post will be permitted at any one continuous installation. Timber posts may be used only when required by the plans.

1. Steel W6 x 8.5 or W6 x 9.0 posts.
2. Steel 4.5" x 6.0" "C" shape posts. (C150 x 12.2 kg/m)
3. Timber 6" x 8" (152 mm x 203 mm) posts.
4. Timber 8" x 8" (203 mm x 203 mm) posts.

**(B) Structural Steel Posts:**

Fabricate steel posts for guardrail of the size and weight shown on the plans from structural steel complying with the requirements of Section 1072, except that the metal from which C shape posts are fabricated must meet the requirements of ASTM A570 for any grade of steel other than mechanical requirements which must meet the requirements of ASTM A36. Punch or drill the holes for connecting bolts. Burning will not be permitted. After fabrication the posts must be galvanized in accordance with Section 1076.

Use structural steel posts, throughout the project, unless otherwise directed or detailed in the plans.

**(C) Treated Timber Posts:**

All timber guardrail posts must be of treated southern pine meeting the requirements of Article 1082-2 and 1082-3.

Bore bolt holes to a driving fit for the bolts. A minus tolerance of 1 percent will be allowed in the length of the post. Perform all framing and boring before the posts receive preservative treatment.

Only use treated timber posts if specifically directed or detailed in the plans.

**(D) Offset Blocks:**

Use recycled plastic or recycled composite offset blocks with steel beam guardrail. The use of steel offset blocks with steel beam guardrail is not allowed. Use treated timber offset blocks only if required by specification, directed or detailed in the plans.

Provide all offset blocks in the shape and dimensions as detailed for wood offset blocks (sheet 4 of 7, Std. 862.02) in the standard drawings and/or plans.

Recycled plastic or composite offset blocks must be made from a minimum of 50% recycled plastic or composite and meet the following minimum requirements:

- Specific Gravity: .....0.950
- Compressive Strength in Lateral Direction:.....1600 psi (11 MPa)
- Maximum Water Absorption: .....10% by weight
- Maximum Termite and Ant Infestation: .....10%
- Testing: .....Must pass NCHRP Report 350,  
Test Level 3 by CRASH  
TESTING
- Approval: .....Must be approved for use by the  
FHWA

**MEASUREMENT AND PAYMENT:**

Payment will be the lump sum bid price for “Steel Beam Guardrail”. This price shall be full compensation for all materials, tools, equipment, labor, and for all incidentals necessary to complete the work. The cost of guardrail delineators shall be included in the lump sum bid price for “Steel Beam Guardrail.”

Revised the *2002 Standard Roadway Drawings* as follows:

Sheet 4 of 6, Standard 862.03, delete the note and substitute the following:

Note: The midpost and offset block of the WTR section will require special bolt hole Drilling in the thrie beam offset block and line post.

GUARDRAIL ANCHOR UNITS, TYPE 350:DESCRIPTION:

The Contractor shall furnish and install guardrail anchor units in accordance with the details in the plans, the applicable requirements of Section 862 of the Standard Specifications, and at locations shown in the plans. The following Roadway Standard Drawings NC DOT dated January 2002 and the latest revisions thereto are applicable and considered apart of this contract:

<u>Standard No.</u>	<u>Title</u>
857.01	Standard of pre-cast reinforced concrete barrier sheet 8
862.01	Standard guardrail placement sheet 3, 5
862.02	Standard guardrail installation sheets 3, 4, 5, 6, 7
1261.01	Standard guardrail & barrier delineator spacing sheet 1
1261.02	Standard guardrail & barrier delineator types sheet 1
1262.01	Standard guardrail end delineation sheet1

MATERIALS:

The Contractor may, at his option, furnish any one of the guardrail anchor units.

Guardrail anchor unit (ET-2000) as manufactured by:

TRINITY INDUSTRIES, INC.  
2525 N. STEMMONS FREEWAY  
DALLAS, TEXAS 75207  
TELEPHONE: 1-800-644-7976

The guardrail anchor unit (SKT 350) as manufactured by:

ROAD SYSTEMS, INC.  
7631 NEW CASTLE DRIVE  
FRANKFORD, ILLINOIS 60423  
TELEPHONE: 815-464-5917

**CONSTRUCTION:**

Installation shall be performed in accordance with the details in the plans and details and assembling instructions furnished by the Manufacturer.

Guardrail end delineation is required on all approach and trailing end guardrail buffer end sections for both temporary and permanent. Guardrail end delineation shall consist of yellow reflective sheeting applied to the entire buffer end section of the guardrail in accordance with Section 1088-3 of the Standard Specifications and shall be incidental to the cost of the guardrail anchor unit.

**MEASUREMENT AND PAYMENT:**

Payment will be the lump sum bid price for "Steel Beam Guardrail". This price shall be full compensation for all materials, tools, equipment, labor, and for all incidentals necessary to complete the work. The cost of guardrail delineators shall be included in the lump sum bid price for "Steel Beam Guardrail."