



# Illinois Department of Transportation

2300 South Dirksen Parkway / Springfield, Illinois / 62764

February 20, 2007

SUBJECT: FAI Route 55 (I-55)  
Project HSIP-055-3(139)102  
Section D6 CABLE MEDIAN BAR #2  
Sangamon County  
Contract No. 72A56  
Item No. 33, March 9, 2007 Letting  
Addendum A

## NOTICE TO PROSPECTIVE BIDDERS:

Attached is an addendum to the plans or proposal. This addendum involves revised and/or added material.

1. Revised page 1 of the Schedule of Prices.
2. Revised sheets 1, 3, and 24 of the Plans.
3. Added sheets 26A – 26D to the Plans.
4. Revised the Recurring Special Provisions checklist in the Special Provisions.
5. Revised pages 3 and 4 of the Special Provisions.

Prime contractors must utilize the enclosed material when preparing their bid and must include any Schedule of Prices changes in their bidding proposal.

Bidders using computer-generated bids are cautioned to reflect any and all Schedule of Prices changes, if involved, into their computer programs.

Very truly yours,

Eric E. Harm  
Interim Bureau Chief  
Bureau of Design and Environment

A handwritten signature in black ink, appearing to read 'Ted B. Walschleger' with a small 'P.E.' to the right.

By: Ted B. Walschleger, P. E.  
Engineer of Project Management

cc: Christine Reed, Region 4, District 6; Roger Driskell; Estimates; Design & Environment File

TBW:DB:jc

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 SCHEDULE OF PRICES  
 CONTRACT  
 NUMBER -

72A56

State Job # - C-96-515-07  
 PPS NBR - 6-60813-0000  
 County Name - SANGAMON- -  
 Code - 167 - -  
 District - 6 - -  
 Section Number - D6 CABLE MEDIAN BAR #2

Project Number  
 HSIP-0553/139/102

Route  
 FAI 55

Item Number	Pay Item Description	Unit of Measure	Quantity	x	Unit Price	=	Total Price
X0325231	CABLE GUARD MARKER	EACH	699.000				
X0325589	HT CBL MEDIAN BARRIER	FOOT	27,764.000				
X0325590	HT CBL MED BAR TERM	EACH	8.000				
X0325606	HT CBL MED BAR DEMO	EACH	2.000				
Z0029999	IMPACT ATTENUATOR REM	EACH	3.000				
20200600	EXC & GR EX SHOULDER	UNIT	292.000				
25001000	SEEDING CL 2 SPL	ACRE	4.000				
25100630	EROSION CONTR BLANKET	SQ YD	19,476.000				
* 28000250	TEMP EROS CONTR SEED	POUND	800.000				
48203013	HMA SHOULDERS 4	SQ YD	18,656.000				
48203037	HMA SHOULDERS 10	SQ YD	648.000				
63000000	SPBGR TY A	FOOT	475.000				
63100167	TR BAR TRM T1 SPL TAN	EACH	2.000				
63200310	GUARDRAIL REMOV	FOOT	900.000				
67100100	MOBILIZATION	L SUM	1.000				
70100700	TRAF CONT-PROT 701406	L SUM	1.000				
* REVISED : FEBRUARY 16, 2007							

RECURRING SPECIAL PROVISIONS

The following RECURRING SPECIAL PROVISIONS indicated by an "X" are applicable to this contract and are included by reference:

<u>CHECK SHEET #</u>	<u>PAGE NO.</u>
1 X Additional State Requirements For Federal-Aid Construction Contracts (Eff. 2-1-69) (Rev. 1-1-07).....	1
2 X Subletting of Contracts (Federal-Aid Contracts) (Eff. 1-1-88) (Rev. 5-1-93) .....	3
3 X EEO (Eff. 7-21-78) (Rev. 11-18-80) .....	4
4 Specific Equal Employment Opportunity Responsibilities Non Federal-Aid Contracts (Eff. 3-20-69) (Rev. 1-1-94) .....	14
5 Required Provisions - State Contracts (Eff. 4-1-65) (Rev. 1-1-07).....	19
6 Reserved .....	24
7 X National Pollutant Discharge Elimination System Permit (Eff. 7-1-94) (Rev. 1-1-03).....	25
8 Haul Road Stream Crossings, Other Temporary Stream Crossings, and In-Stream Work Pads (Eff. 1-2-92) (Rev. 1-1-98).....	26
9 Construction Layout Stakes Except for Bridges (Eff. 1-1-99) (Rev. 1-1-07).....	27
10 Construction Layout Stakes (Eff. 5-1-93) (Rev. 1-1-07) .....	30
11 Use of Geotextile Fabric for Railroad Crossing (Eff. 1-1-95) (Rev. 1-1-07).....	33
12 Subsealing of Concrete Pavements (Eff. 11-1-84) (Rev. 1-1-07).....	35
13 Hot-Mix Asphalt Surface Removal (Cold Milling) (Eff. 11-1-87) (Rev. 1-1-07) .....	39
14 Pavement and Shoulder Resurfacing (Eff. 2-1-00) (Rev. 1-1-07) .....	41
15 PCC Partial Depth Hot-Mix Asphalt Patching (Eff. 1-1-98) (Rev. 1-1-07) .....	42
16 Patching with Hot-Mix Asphalt Overlay Removal (Eff. 10-1-95) (Rev. 1-1-07).....	44
17 Polymer Concrete (Eff. 8-1-95) (Rev. 3-1-05) .....	45
18 PVC Pipeliner (Eff. 4-1-04) (Rev. 1-1-07) .....	47
19 Pipe Underdrains (Eff. 9-9-87) (Rev. 1-1-07) .....	48
20 X Guardrail and Barrier Wall Delineation (Eff. 12-15-93) (Rev. 1-1-97) .....	49
21 Bicycle Racks (Eff. 4-1-94) (Rev. 1-1-07) .....	53
22 Temporary Modular Glare Screen System (Eff. 1-1-00) (Rev. 1-1-07) .....	55
23 Temporary Portable Bridge Traffic Signals (Eff. 8-1-03) (Rev. 1-1-07) .....	57
24 Work Zone Public Information Signs (Eff. 9-1-02) (Rev. 1-1-07).....	59
25 Night Time Inspection of Roadway Lighting (Eff. 5-1-96).....	60
26 English Substitution of Metric Bolts (Eff. 7-1-96).....	61
27 English Substitution of Metric Reinforcement Bars (Eff. 4-1-96) (Rev. 1-1-03) .....	62
28 Calcium Chloride Accelerator for Portland Cement Concrete (Eff. 1-1-01) .....	63
29 Quality Control of Concrete Mixtures at the Plant-Single A (Eff. 8-1-00) (Rev. 1-1-04) .....	64
30 X Quality Control of Concrete Mixtures at the Plant-Double A (Eff. 8-1-00) (Rev. 1-1-04) .....	70
31 Quality Control/Quality Assurance of Concrete Mixtures (Eff. 4-1-92) (Rev. 1-1-07) .....	78

**EXCAVATING AND GRADING EXISTING SHOULDER**

During grading operations, special care shall be taken to not damage or fill in existing pipe underdrain headwalls and other drainage structures. Any damage to drainage structures will be repaired or replaced at the Contractor's expense.

**SEEDING, CLASS 2 (SPECIAL)**

Description. This work shall be done in accordance with Section 250 and Section 251 of the Standard Specifications.

Method of Measurement. This work will be measured for payment in acre of the surface area seeded.

Basis of Payment. This work shall be paid at the contract unit price per acre for SEEDING, CLASS 2 (SPECIAL), which will include fertilizer nutrients.

**HIGH TENSION CABLE MEDIAN BARRIER (EXPERIMENTAL, GIBRALTAR)**

Description. This work shall consist of furnishing and installing the Gibraltar high tension cable (HTC) median barrier with terminals/end anchorages.

Materials. Materials shall be according to the following.

Item	Article/Section
(a) Reinforcement Bars.....	1006.10(a)
(b) Portland Cement Concrete (Note 1) .....	1020
(c) Wire Rope (Cable) and Fittings (Note 2)	

Note 1. The portland cement concrete shall be Class SI.

Note 2. The wire rope (cable) shall be according to AASHTO M 30, Type 1 with Class A coating, of the diameter shown in the manufacturer's specifications. Additionally, the wire rope shall be prestretched and shall have a breaking strength of 39,285 lbs (175 kN) for 3/4 in. (19 mm) wire rope (individual wire strength equivalent to 174,000 psi (1200 N/mm)) and the prestretched wire rope shall have a minimum modulus of elasticity of 11,805,000 psi (8300 kg/mm).

The barrier shall be tested and accepted under the National Cooperative Highway Research Program (NCHRP) Report 350 for the required test level and shall be the Gibraltar system shown on the Department's approved list. The barrier shall be the Test Level 4 with four cables, as detailed in the plans. The contact information for Gibraltar is shown below:

Gibraltar  
320 Southland Road  
Burnet, Texas 78611  
1-800-495-8957

The terminals/end anchorages shall be tested and accepted under NCHRP Report 350 Test Level 3.  
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Equipment. Equipment shall be according to the barrier manufacturer's specifications.

Tension Meter. One cable tension meter, with documentation, shall be furnished with the system and the Engineer shall be instructed in its use and maintenance. Upon completion of the project, the tension meter shall become the property of the Department.

Replacement Parts. The following replacement parts shall be furnished to the Department for system maintenance: two spools of cable, each 1000 ft (610 m); splicing/swaging hardware for 12 cable splices; posts and necessary hardware to replace 50 posts per mile of system installed; and material and hardware, exclusive of cable and ground anchors, to completely replace two cable terminals from the end of the system to the point where the post and cable assembly becomes uniform.

Deflection. The HTC median barrier shall be designed for a maximum deflection of 8'.

#### Construction Requirements

General. The HTC median barrier shall be constructed to the lines and grades shown on the plans and according to the manufacturer's specifications except as modified by the contracts documents. The line posts shall be driven.

Tensioning. Prior to acceptance of the work, the tension of the HTC median barrier shall be checked, and adjusted as necessary, according to the manufacturer's temperature/tension chart or relationship.

End Anchorages. The Contractor shall submit shop drawings and calculations to the Engineer prepared and sealed by an Illinois Licensed Structural Engineer detailing the required end anchorage foundation system at each location. The system shall utilize drilled shaft foundation of a diameter, depth, reinforcement, and cable connection determined by the supplier. The design shall utilize Broms method utilizing a minimum factor of safety of 1.5. The design loadings shall consist of the theoretical cumulative cable tension expected for temperature fluctuations to -10 °F (-23 °C). The dynamic vehicle impact loading shall not be added to the cable temperature loading for the analysis. The foundation soils shall be assumed to be submerged granular material with a friction angle of 30 degrees or clay soils with a cohesive intercept of 1.0 kip/sq ft (48 kPa), unless site specific soil parameters are specified.

Hands-On Demonstration. When included in the contract, a hands-on demonstration(s) of maintenance/repair procedures, recommendations and discussion of vehicle recovery, and provisions for emergency openings in the barrier shall be conducted. These demonstrations shall be for emergency responders, maintenance personnel, and others invited by the Engineer and shall either be conducted either at the job-site or at another agreed to meeting facility. Up to 30 attendees shall be accommodated at each demonstration.

Method of Measurement. HTC median barrier will be measured for payment in feet (meters) along the top cable between terminals. Terminals shall be defined as the end anchorages and other components from the extreme ends of a run to a point 27.5 ft (8.4 m) into the run. This definition of the terminal applies regardless of the length of need point, transitions from anchorage to full height cable, or other features that may vary between systems.

Basis of Payment. This work will be paid for at the contract unit price per foot (meter) for HIGH TENSION CABLE MEDIAN BARRIER.

The terminals/end anchorages and demonstrations will be paid for at the contract per each for HIGH TENSION CABLE MEDIAN BARRIER TERMINALS and HIGH TENSION CABLE MEDIAN BARRIER DEMONSTRATION respectively.

Revised 02/20/2007