Iowa Department of Transportation

MINUTES
OF
IOWA D.O.T. SPECIFICATION COMMITTEE MEETING

September 9, 2010

Members Present:	Jim Berger	Office of Materials
	Donna Buchwald	Office of Local Systems
	Eric Johnsen, Secretary	Specifications Section
	Deanna Maifield	Office of Design
	Gary Novey	Office of Bridges & Structures
	Dan Redmond	District 4 - Materials
	Tom Reis, Chair	Specifications Section
Members Not Present:	John Adam	Statewide Operations Bureau
	Roger Bierbaum	Office of Contracts
	Troy Jerman	Office of Traffic & Safety
	Bruce Kuehl	District 6 - Construction
	Doug McDonald	District 1 - Marshalltown RCE
	John Smythe	Office of Construction
Advisory Members Present:	Max Grogg	FHWA
Others Present:	Ed Kasper	Office of Contracts
	Wayne Sunday	Office of Construction
	Michael Cain	FHWA

Tom Reis, Specifications Engineer, opened the meeting. The following items were discussed in accordance with the agenda dated September 3, 2010:

1. Article 1107.01, Laws to be Observed.

The Office of Contracts requested changes to comply with recent legislation.

2. Section 2106, Settlement Plates.
Section 2526, Construction Survey.

The Office of Construction requested changes to clarify responsibility for taking elevations of settlement plates.

3. Article 2412.03, A, Swinging The Span and Support of Forms.

The Office of Construction requested changes requiring deck form hangers be coated for corrosion protection.

4. Section 2433, Concrete Drilled Shaft.

The Office of Construction requested changes clarifying that drilled shafts may be placed in soil or rock sockets.

5. Article 2533.05, Basis of Payment (Mobilization).

The Office of Construction requested changes clarifying when the initial partial payment for mobilization is due and that each project on a contract be handled separately with regards to partial payments for mobilization.

6. Section 2602, Water Pollution Control (Soil Erosion).

The Office of Construction requested changes to add measurement and payment information for Floating Silt Curtains.

7. DS-09034, Small Business Development Contracts.

The Office of Contracts requested changes to the Developmental Specifications for Small Business Development Contracts to comply with recent legislation.

8. SS-09XXX, Wet Retroreflective Removable Tape Markings.

The Specifications Section requested approval of a Supplemental Specifications for Wet Retroreflective Removable Tape Markings as an aid to improved visibility for pavement markings in construction zones.

SPECIFICATION REVISION SUBMITTAL FORM

Submitted by: Roger Bierbaum	**Office:** Contracts	**Item 1**
Submittal Date: July 29, 2010	**Proposed Effective Date:** April 2011	
Article No.: 1107.01 **Title:** Laws to be Observed	**Other:**	

Specification Committee Action: Approved with changes.

Deferred:	**Not Approved:**	**Approved Date:** 09/09/2010	**Effective Date:** 04/19/2011

Specification Committee Approved Text:

1107.01, E.

Replace the Article:

~~Except for contracts that are for materials only, all out of state contractors shall file a surety bond for contracts involving non-Federal-aid projects in excess of $5,000 in value prior to commencing a contract. This surety bond shall be filed in accordance with the Code of Iowa, Section 91C.7. It shall be filed with the Division of Labor Services of the Department of Workforce Development. The value of this surety bond shall be $1,000 or 5% of the total contract amount, whichever is greater.~~ On non-Federal aid contracts, out-of-state contractors shall either file a surety bond, as provided in section 91C.7 of the Code of Iowa, with the Division of Labor Services in the amount of $25,000 for a one-year period or shall provide a statement to the Division of Labor Services that they are prequalified to bid on contracts with the Department.

Comments: The FHWA asked that the specification clarify that this will only apply to non-Federal-aid contracts. “Projects” was changed to “contracts” since that is the basis of bidding.

Specification Section Recommended Text:

1107.01, E.

Replace the Article:

~~Except for contracts that are for materials only, all out of state contractors shall file a surety bond for contracts involving non-Federal-aid projects in excess of $5,000 in value prior to commencing a contract. This surety bond shall be filed in accordance with the Code of Iowa, Section 91C.7. It shall be filed with the Division of Labor Services of the Department of Workforce Development. The value of this surety bond shall be $1,000 or 5% of the total contract amount, whichever is greater.~~ An out-of-state contractor shall either file a surety bond, as provided in section 91C.7 of the Code of Iowa, with the Division of Labor Services in the amount of $25,000 for a one-year period or shall provide a statement to the Division of Labor Services that they are prequalified to bid on projects with the Department.

Comments:

Member’s Requested Change: **(Do not use ‘Track Changes’, or ‘Mark-Up’. Use ~~Strikeout~~ and Highlight.)**

E. An out-of-state contractor shall either file a surety bond, as provided in section 91C.7 of the Code of Iowa, with the division of labor services in the amount of twenty-five thousand dollars for a one-year period or shall provide a statement to the division of labor services that the contractor is prequalified to bid on projects for the Department of Transportation

~~Except for contracts that are for materials only, all out of state contractors shall file a surety bond for contracts involving non-Federal-aid projects in excess of $5,000 in value prior to commencing a contract. This surety bond shall be filed in accordance with the Code of Iowa, Section 91C.7. It shall be filed with the Division of Labor Services of the Department of Workforce Development. The value of this surety bond shall be $1,000 or 5% of the total contract amount, whichever is greater.~~

Reason for Revision: HF2522 passed by the Iowa Legislature in 2010

County or City Input Needed (X one)	**Yes**	**No** X

Comments:					
Industry Input Needed (X one)			**Yes**	**No** X	
Industry Notified:	**Yes**	**No** X	**Industry Concurrence:**	**Yes**	**No** X
Comments:					

SPECIFICATION REVISION SUBMITTAL FORM

Submitted by: John Smythe	**Office:** Construction	**Item 2**
Submittal Date: August 23, 2010	**Proposed Effective Date:** April 2011	
Section No.: 2106 **Title:** Settlement Plates **Section No.:** 2526 **Title:** Construction Survey	**Other:**	

Specification Committee Action: Approved with changes.

Deferred:	**Not Approved:**	**Approved Date:** 09/09/2010	**Effective Date:** 04/19/2011

Specification Committee Approved Text:

2106.01, DESCRIPTION.

Replace the Article:

~~**A.**~~ Furnish and install settlement plates consisting of a base plate, steel bar, steel riser pipe sections, PVC casing, inspection cover, and additional hardware and couplers which may be required as shown in the contract documents. The number of settlement plates will be shown in the contract documents.

~~**B. Monitor settlement plate installations and report settlement results.**~~

2106.03, A, 2.

Delete the Article:

~~**2. Establish benchmarks in the adjacent area before installing settlement plates.**~~

~~**a. Obtain the Engineer's approval for the method of determining alignments and elevations and the method of preserving control points. This approval does not act to relieve the Contractor of the responsibility for the correctness of the survey work.**~~

~~**b. Do not use plan cross-sections for vertical or horizontal control.**~~

2106.03, E, Monitoring.

Replace the Article:

~~**1. Monitoring consists of:**~~

~~• Inspecting the riser pipe,~~
~~• Accurately measuring the elevation of top of the riser pipe, and~~
~~• Recording, to the nearest 0.01 foot (0.3 mm), the elevation readings on a form supplied by the Engineer.~~

~~**2. Record elevation readings daily during normal construction and weekly during delays and following the completion of embankment construction. During the course of embankment construction, submit completed forms to the Engineer weekly. Following the completion of embankment construction, submit forms weekly unless the Engineer instructs otherwise.**~~

~~**3. During periods of work suspension, the Engineer will record elevation readings.**~~

The Engineer will determine elevations of settlement plates in accordance with Article 2526.03, G.

2106.05, BASIS OF PAYMENT.

Replace the Article:

Furnishing, installing, and extending, ~~and monitoring~~ settlement plates is incidental to embankment or excavation.

2526.03, G.

Replace the Article:

Establish benchmarks in the adjacent area before installing settlement plates in accordance with Article 2526.03, A, 1, d.

1. Obtain Engineer's approval for method of determining alignments and elevations and the method

of preserving control points. This approval does not relieve Contractor of the responsibility for correctness of survey work.

2. Do not use plan cross-sections for vertical or horizontal control.

The Engineer will locate and determine elevations of settlement plates.

Comments: The Office of Contracts noted that Article 2106.03, A, 2 includes establishing benchmarks in the specifications for settlement plates. Since this will only be the Contractor's responsibility if Construction Survey is included on the project, language from Article 2106.03, A, 2 was moved to Article 2526.03, G.

Specification Section Recommended Text:

2106.01, DESCRIPTION.

Replace the Article:

~~**A.**~~ Furnish and install settlement plates consisting of a base plate, steel bar, steel riser pipe sections, PVC casing, inspection cover, and additional hardware and couplers which may be required as shown in the contract documents. The number of settlement plates will be shown in the contract documents.

~~**B. Monitor settlement plate installations and report settlement results.**~~

2106.03, E, Monitoring.

Replace the Article:

~~**1. Monitoring consists of:**~~

~~• Inspecting the riser pipe,~~
~~• Accurately measuring the elevation of top of the riser pipe, and~~
~~• Recording, to the nearest 0.01 foot (0.3 mm), the elevation readings on a form supplied by the Engineer.~~

~~**2. Record elevation readings daily during normal construction and weekly during delays and following the completion of embankment construction. During the course of embankment construction, submit completed forms to the Engineer weekly. Following the completion of embankment construction, submit forms weekly unless the Engineer instructs otherwise.**~~

~~**3. During periods of work suspension, the Engineer will record elevation readings.**~~

The Engineer will determine elevations of settlement plates in accordance with 2526.03 G.

2106.05, BASIS OF PAYMENT.

Replace the Article:

Furnishing, installing, and extending, ~~and monitoring~~ settlement plates is incidental to embankment or excavation.

2526.03, G.

Replace the Article:

Establish benchmarks in the adjacent area before installing settlement plates in accordance with Article 2526.03, A, 1, d. The Engineer will locate and determine elevations of settlement plates.

Comments:

Member's Requested Change: (Do not use 'Track Changes', or 'Mark-Up'. Use ~~Strikeout~~ and Highlight.)

Delete 2106.01B

2106.01 DESCRIPTION.

A. Furnish and install settlement plates consisting of a base plate, steel bar, steel riser pipe sections, PVC casing, inspection cover, and additional hardware and couplers which may be required as shown in the contract documents. The number of settlement plates will be shown in the contract documents.

~~**B. Monitor settlement plate installations and report settlement results.**~~

Revise Article 2106.03E as follows:

E. Monitoring.

~~**1.** Monitoring consists of:~~
~~• Inspecting the riser pipe,~~
~~• Accurately measuring the elevation of top of the riser pipe, and~~
~~• Recording, to the nearest 0.01 foot (0.3 mm), the elevation readings on a form supplied by the Engineer.~~

~~**2.** Record elevation readings daily during normal construction and weekly during delays and following the completion of embankment construction. During the course of embankment construction, submit completed forms to the Engineer weekly. Following the completion of embankment construction, submit forms weekly unless the Engineer instructs otherwise.~~

~~**3.** During periods of work suspension, the Engineer will record elevation readings.~~

1. The Engineer will determine elevations of settlement plates in accordance with 2526.03 G.

Revise Article 2106.05 as follows:

2106.05 BASIS OF PAYMENT.

Furnishing, installing, and extending, ~~and monitoring~~ settlement plates is incidental to embankment or excavation.

Revise Article 2526.03 G as follows:

G. Establish benchmarks in the adjacent area before installing settlement plates in accord with 2526.03 A. 1. d. The Engineer will locate and determine elevations of settlement plates.

Reason for Revision: Current specifications include a discrepancy regarding responsibility for taking elevations on settlement plates. It is recommended the Project Engineer determine and record the elevations. The requirement for placement of a benchmark near the settlement plates was moved to the Construction Survey section. If Construction Survey is not included on the contract, the benchmark will be established by the Engineer.

County or City Input Needed (X one)			**Yes**	**No** X	
Comments:					
Industry Input Needed (X one)			**Yes**	**No** X	
Industry Notified:	**Yes**	**No**	**Industry Concurrence:**	**Yes**	**No**
Comments:					

SPECIFICATION REVISION SUBMITTAL FORM

Submitted by: John Smythe / Wayne Sunday	**Office:** Construction	**Item 3**
Submittal Date: August 11, 2010	**Proposed Effective Date:** April 2011	
Article No.: 2412.03, A **Title:** Swinging The Span and Support of Forms	**Other:**	

Specification Committee Action: Approved as is.

Deferred:	**Not Approved:**	**Approved Date:** 09/09/2010	**Effective Date:** 04/19/2011

Specification Committee Approved Text: See Specification Section Recommended Text.

Comments: The District 4 – Materials Office asked why hot dip galvanizing was not allowed. Welding can cause embrittlement with hot dip galvanized hangers.

Also, the District 4 – Materials Office thought Materials I.M. 570 (Precast & Prestressed Concrete Bridge Units) included language on hot dip galvanizing hangers that are embedded in prestressed beams. Upon review, hangers in prestressed beam are required to be coated by electroplating or mechanical galvanizing as required in this article. Since this information will not be in the specifications, the Materials Office may eliminate the language from the Materials I.M. and include a reference to this article.

Specification Section Recommended Text:

2412.03, A, 2.

Replace the Article:

~~Unless the Engineer approves, d~~ Do not use temporary welds to attach hangers to prestressed or steel beams to support deck form joists. ~~according to Article 2408.03, B. Galvanized hangers may remain exposed in the finished structure.~~ Coat deck hangers that are embedded in prestressed beams and deck hangers that drape across steel girder or prestressed beams using one of the following methods:

a. Electroplating in accordance with ASTM B 633, Service Condition SC4, minimum coating thickness of 1.0 mil (25 µm). Classification and Coating Suffix: Fe/Zn 25.

b. Mechanical galvanizing in accordance with ASTM B 695, Type I, Class 50. Minimum coating thickness of 2.0 mils (50 µm).

Comments:

Member's Requested Change: (Do not use 'Track Changes', or 'Mark-Up'.Use ~~Strikeout~~ and Highlight.

2412.03 CONSTRUCTION.

When a two course construction with a second course of bridge deck surfacing or other wearing course is specified, use the requirements of Section 2413 or in the contract documents for the second course. When an overlay for an existing deck in conjunction with repair is specified, use the requirements of Section 2413 or in the contract documents for the overlay and repair.

A. Swinging the Span and Support of Forms.

1. Before concrete is placed in the floor of a steel span, strike the centering of the span and swing the span free on its permanent supports. Support the forms for concrete decks and curbs entirely by the beams which are to support the concrete, unless specified otherwise in the contract documents.

2. ~~Unless the Engineer approves, d~~ Do not use temporary welds to attach hangers to prestressed beams or steel beams to support deck form joists. ~~according to Article 2408.03, B. Galvanized hangers may remain exposed in the finished structure.~~ Coat deck hangers that are embedded in prestressed beams and deck hangers that drape across steel girder or prestressed beams using one of the following methods:

1. Electroplating in accordance with ASTM B633, Service Condition SC4, required coating thickness of 1.0 MIL. Classification and Coating Suffix: Fe/Zn 25.

2. Mechanical galvanizing in accordance with ASTM B695, Type I, Class 50. Minimum coating thickness shall be 2 MILs.

Reason for Revision: Requiring deck form hangers to be coated for corrosion protection addresses the last material element in bridge decks that previously did not require corrosion protection. Requiring all embedded metal materials in bridge decks to have coatings for corrosion protection significantly increases the service life of bridge decks.					
County or City Input Needed (X one)			**Yes**	**No X**	
Comments:					
Industry Input Needed (X one)			**Yes**	**No** X	
Industry Notified:	**Yes** X	**No**	**Industry Concurrence:**	**Yes**	**No**
Comments:					

SPECIFICATION REVISION SUBMITTAL FORM

Submitted by: John Smythe / Kyle Frame	**Office:** Central Construction	**Item 4**
Submittal Date: 08/26/2010	**Proposed Effective Date:** April 2011	
Section No.: 2433 **Title:** Concrete Drilled Shaft	**Other:**	

Specification Committee Action: Approved with changes.

Deferred:	**Not Approved:**	**Approved Date:** 09/09/2010	**Effective Date:** 04/19/2011

Specification Committee Approved Text:

2433.01, A.

Replace the Article:

A concrete drilled shaft foundation consists of reinforced concrete placed in a drilled shaft seated in bedrock or soil and may encompass a rock socket as shown in the contract documents. References to “rock” and “rock socket” throughout this section are only applicable to shafts seated in bedrock with rock sockets as specified in the contract documents.

2433.03, K, 2.

Replace the first sentence of the Article:

Construct the demonstration shaft in soil as shown in the contract documents or a minimum of 3 feet (1 m) into bedrock.

2433.05, A, 2.

Replace the first bulleted item:

Drilling and excavation of shaft and possible rock socket,

Comments: The word “specification” was changed to “Section”.

The Office of Construction presented information on how concrete drilled shafts had evolved from being placed in bedrock for large structures to being used in soil for small structures such as sign trusses. A DS was created for using concrete drilled shafts for these small structures. Language in the DS was almost identical to Section 2433, with the exception of the rock socket. This specification change will eliminate the need for DS-09032, Concrete Drilled Shaft for Support Structures, with the April 2011 letting.

Specification Section Recommended Text:

2433.01, A.

Replace the Article:

A concrete drilled shaft foundation consists of reinforced concrete placed in a drilled shaft seated in bedrock or soil and may encompass a rock socket as shown in the contract documents. References to “rock” and “rock socket” throughout this specification are only applicable to shafts seated in bedrock with rock sockets as specified in the contract documents.

2433.03, K, 2.

Replace the first sentence of the Article:

Construct the demonstration shaft in soil as shown in the contract documents or a minimum of 3 feet (1 m) into bedrock.

2433.05, A, 2.

Replace the first bulleted item:

- Drilling and excavation of shaft and possible rock socket,

Comments:

Member’s Requested Change: **(Do not use ‘Track Changes’, or ‘Mark-Up’. Use ~~Strikeout~~ and Highlight.)**

2433.01

Replace the first paragraph.

~~**A.** A concrete drilled shaft foundation consists of reinforced concrete placed in a drilled shaft and rock socket as shown in the contract documents.~~

A. A concrete drilled shaft foundation consists of reinforced concrete placed in a drilled shaft that is seated in bedrock or soil and with or without a rock socket as shown in the contract documents. References to "rock" and "rock socket" thoughout this document are only applicable to shafts that are seated into bedrock with rock sockets as specified in the contract documents.

2433.03, K

Replace the second paragraph.

~~**2.** Construct the demonstration shaft a minimum of 3 feet (1 m) into bedrock. A reinforcing steel cage, designed by the Contractor, to adequately support the CSL tubes will be required.~~

2. Construct the demonstration shaft in soil as shown in the contract documents or a minimum of 3 feet (1 m) into bedrock. A reinforcing steel cage, designed by the Contractor, to adequately support the CSL tubes will be required.

2433.05, A, 2

Replace the first bullet.

- ~~Drilling and excavation of shaft and rock socket.~~

- Drilling and excavation of shaft and possible rock socket.

Reason for Revision: Clarify that drilled shafts may be founded in soil or rock.

County or City Input Needed (X one)			**Yes**	**No** X	
Comments:					
Industry Input Needed (X one)			**Yes**	**No** X	
Industry Notified:	**Yes**	**No**	**Industry Concurrence:**	**Yes**	**No**
Comments:					

SPECIFICATION REVISION SUBMITTAL FORM

Submitted by: John M. Smythe	**Office:** Construction	**Item 5**
Submittal Date: July 9, 2010	**Proposed Effective Date:** April 2011	
Article No.: 2533.05, A **Title:** Basis of Payment (Partial Payments, Mobilization)	**Other:**	

Specification Committee Action: This item was deferred until the next Specification Committee meeting.

Deferred: X	**Not Approved:**	**Approved Date:**	**Effective Date:**

Specification Committee Approved Text:

Comments: Since the committee member who proposed this revision could not attend the Specification Committee meeting, this item was deferred so that committee members can get more information about the reason for the revision.

Specification Section Recommended Text:

2533.05, A, 1.

Replace the Article:

Partial payment of mobilization will be made for each project within 30 calendar days after receipt of a signed contract. This partial payment will be either 10% of the contract price for this item or 1% of the original project sum, whichever is less. If the partial payment for a project is less than $1000, the Engineer will delay this partial payment until 5% of the original project sum is earned.

Comments:

Member's Requested Change: **(Do not use 'Track Changes', or 'Mark-Up'. Use ~~Strikeout~~ and Highlight.)**

Section 2533
2533.05, A, 1.
Replace the Article:
Partial payment of mobilization will be made for each project within 30 days after receipt of a signed contract. This partial payment will be either 10% of the contract price for this item or 1% of the original project sum, whichever is less. If the partial payment for a project is less than $1000, the Engineer will delay this partial payment until 5% of the original project sum is earned.

Reason for Revision: The FHWA has determined that the initial partial payment is due immediately upon receipt of a signed contract. The 30 day window allows for normal processing time after receipt of the signed contract. For multiple project contracts, mobilization for each project will be considered separately.

County or City Input Needed (X one)			**Yes**	**No** X	
Comments:					
Industry Input Needed (X one)			**Yes**	**No** X	
Industry Notified:	**Yes**	**No**	**Industry Concurrence:**	**Yes**	**No**
Comments:					

SPECIFICATION REVISION SUBMITTAL FORM

Submitted by: John Smythe / Wayne Sunday	**Office:** Construction	**Item 6**
Submittal Date: July 29, 2010	**Proposed Effective Date:** April 2011	
Article No.: 2602.04 **Title:** Method of Measurement (Floating Silt Curtain) **Article No.:** 2602.05 **Title:** Basis of Payment (Floating Silt Curtain)	**Other:**	

Specification Committee Action: This revision was not approved. This specification revision will be revisited when Road Standard EC-202 has been reviewed and the Department has a defined policy on when these bid items will be used.

Deferred:	**Not Approved:** X	**Approved Date:**	**Effective Date:**

Specification Committee Approved Text:

Comments: The details of the Floating Silt Curtain are shown on EC-202, which is currently being reviewed by the Office of Location and Environment and Roadside Development Section.

Floating Silt Curtains are not typically bid on a project, but are added by extra work order (EWO) during construction. The Office of Construction would like to see floating silt curtains used more often, so adding MOM and BOP should make it easier. It is anticipated that Floating Silt Curtains will be used on the plan and bid for certain projects.

The Office of Contracts asked about multiple bid items for Floating Silt Curtains. Currently there are bid items for moving water and still water floating silt curtains. When the specification is revised, we will add “of the type specified” to the MOM and BOP.

The Office of Design asked about Floating Silt Curtains being incidental when a temporary stream crossing, causeway, or equipment pad is installed (RL-16). Since the floating silt curtain is at the Contractor’s option, it would be incidental.

The Office of Materials asked how the Contractor will be paid for removal of the Floating Silt Curtain. Since this is typically added by EWO, it has not been a problem. EC-202 does not fully address removal. We may need to add a bid item for Removal of Floating Silt Curtain. If we do, the removal will be addressed in the specifications.

Until the specification is revised, we will continue with the current practice of adding Floating Silt Curtains by EWO when necessary. The EWO should refer to EC-202 for construction. MOM and BOP will be included in the EWO.

The Office of Design preferred that we wait to make any specification revisions until we are more certain of the Departments position on the use of Floating Silt Curtains. The Office of Construction concurred.

Specification Section Recommended Text:

2602.04, METHOD OF MEASUREMENT.

Add new Article:

L. Floating Silt Curtain.

Linear feet (meters) to the nearest foot (0.1 m).

2602.05, A

Add new Article:

12. Floating Silt Curtain.

Per lineal foot (meter) for the length of floating silt curtain properly constructed.

Comments:

Member's Requested Change: (Do not use 'Track Changes', or 'Mark-Up'.Use ~~Strikeout~~ and Highlight.

2602.04 METHOD OF MEASUREMENT.

Measurement for water pollution control items will be as follows:

A. Silt Ditches.
Linear feet (meters) to the nearest 0.1 foot (0.1 m).

B. Silt Fence.
Linear feet (meters) to the nearest 0.1 foot (0.1 m).

C. Silt Fence for Ditch Checks.
Linear feet (meters) to the nearest 0.1 foot (0.1 m).

D. Silt Dikes.
Linear feet (meters) to the nearest 0.1 foot (0.1 m).

E. Silt Basins.
By count for each silt basin.

F. Removal of Silt Fence.
Linear feet (meters) to the nearest foot (0.1 m).

G. Removal of Silt Fence for Ditch Checks.
Linear feet (meters) to the nearest foot (0.1 m).

H. Removal of Silt Basins.
Cubic yards (cubic meters) as Class 10 Excavation according to Article 2102.04 for material used to fill silt basins.

I. Clean-out of Silt Fence.
Linear feet (meters) to the nearest foot (meter).

J. Clean-out of Silt Fence for Ditch Check.
Linear feet (meters) to the nearest foot (meter).

K. Removal and Reinstallation of Silt Fence.
Linear feet (meters) to the nearest foot (meter).

L. Floating Silt Curtain.
Linear feet (meters) to the nearest foot (0.1 m).

2602.05 BASIS OF PAYMENT.

A. Payment for water pollution control items will be the contract unit price as described below. Payment for construction of water pollution control items is full compensation for labor, equipment and materials necessary to construct the items according to the contract documents.

1. Silt Ditches.
Per linear foot (meter) for the length of silt ditches properly constructed.

2. Silt Fence.
Per linear foot (meter) for the length of silt fence properly installed.

3. Silt Fence for Ditch Checks.
Per linear foot (meter) for the length of silt fence for ditch checks properly installed.

4. Silt Dikes.
Per linear foot (meter) for the length of silt dikes properly constructed.

5. Silt Basins.
Each for properly constructed silt basins.

6. Removal of Silt Fence.
Per linear foot (meter) for the length of silt fence properly removed.

7. Removal of Silt Fence for Ditch Checks.
Per linear foot (meter) for the length of silt fence for ditch checks properly removed.

8. Removal of Silt Basins.
Per cubic yard (cubic meter) for Class 10 Excavation, according to Article 2102.05, for each silt basin properly filled.

9. Clean-out of silt Fence.
Per linear foot (meter) for silt fence properly cleaned out.

10. Clean-out of Silt Fence for Ditch Check.
Linear foot (meter) of silt fence for ditch check properly cleaned out.

11. Removal and Reinstallation of Silt Fence.
Two times the contract unit price for the type of silt fence properly repaired for silt fence that must be replaced by removal and reinstallation, through no fault of the Contractor.

12. Floating Silt Curtain.
Per lineal foot (meter) for the length of floating silt curtain properly constructed.

B. When it is necessary for the Contractor to clean out, repair, or reconstruct a silt ditch, dike, or basin, the

additional payment will be 100% of the contract unit price for construction of that item. When applicable bid items are not in the contract documents, payment for clean out, repair, or reconstruction will be according to Article 1109.03, B.

C. If water control measures are required due to the Contractor's negligence, carelessness, or failure to install the controls as a part of the work as scheduled, and are ordered by the Engineer, perform this work at no additional cost to the Contracting Authority.

D. All water pollution control features are to be in functional condition before final acceptance of the contract.

Reason for Revision: To establish a specification Method of Measurement and Basis of Payment for Floating Silt Curtains.

County or City Input Needed (X one)			**Yes**	**No** X	
Comments:					
Industry Input Needed (X one)			**Yes**	**No** X	
Industry Notified:	**Yes**	**No**	**Industry Concurrence:**	**Yes**	**No**
Comments:					

SPECIFICATION REVISION SUBMITTAL FORM

Submitted by: Roger Bierbaum			**Office:** Contracts		**Item 7**
Submittal Date: July 28, 2010			**Proposed Effective Date:** November 16, 2010		
Article No.: **Title:**			**Other:** DS-09036, Small Business Development Contracts		
Specification Committee Action: Approved with changes.					
Deferred:	**Not Approved:**	**Approved Date:** 09/09/2010	**Effective Date:** 12/21/2010		
Specification Committee Approved Text: See attached Drafts DS for Small Business Development Contracts.					
Comments: A typo was revised in Article 09XXX.04. This DS will only apply to non-Federal Aid projects. Roger Bierbaum will continue to be the controller for this DS.					
Specification Section Recommended Text: See attached Drafts DS for Small Business Development Contracts.					
Comments:					
Member's Requested Change: (Do not use '**Track Changes**', or '**Mark-Up**'. Use ~~**Strikeout**~~ and **Highlight**.) See attached draft					
Reason for Revision: Law passed by legislature					
County or City Input Needed (X one)			**Yes**	**No** X	
Comments:					
Industry Input Needed (X one)			**Yes**	**No** X	
Industry Notified:	**Yes**	**No**	**Industry Concurrence:**	**Yes**	**No**
Comments:					

DRAFT DS-09XXX
(Replaces DS-09036)

Iowa Department of Transportation

DEVELOPMENTAL SPECIFICATIONS
FOR
SMALL BUSINESS DEVELOPMENT CONTRACTS

Effective Date
December 21, 2010

THE STANDARD SPECIFICATIONS, SERIES 2009, ARE AMENDED BY THE FOLLOWING MODIFICATIONS AND ADDITIONS. THESE ARE DEVELOPMENTAL SPECIFICATIONS AND THEY SHALL PREVAIL OVER THOSE PUBLISHED IN THE STANDARD SPECIFICATIONS.

09XXX.01 DESCRIPTION.
The intent of this specification is ~~to provide~~ for the Department to comply with Iowa Code 314.14 by providing contracts where only small businesses compete against each other, and not against large established contractors. ~~To compete for these contracts the firm shall meet House File 2460 requirements for a small business, but need not be a Targeted Small Business.~~

09XXX.02 DEFINITIONS.
Certified Small Business Contractors (CSBC) – A contractor who has been recognized as meeting the requirements of a Small Business contractor by the Iowa DOT's Office of Contracts.

Prequalification – Submittal of a Contractors Financial-Equipment-Experience (FEE) Statement as described in Article 1102.01 of the Standard Specifications

Small Business – A firm which meets the requirement of ~~House File 2460~~ Iowa Code 314.14~~. The House File~~ which defines a *"Small business" a*s any enterprise which is operated for profit, under a single management, and which has either fewer than twenty employees or an annual gross income of less than four million dollars computed as the average of the three preceding fiscal years.

Small Business Certification – A document completed by a small business and submitted to the Iowa DOT's Office of Contracts certifying the firm complies with the size requirements of the ~~House File 2460~~ Iowa Code 314.14 Small Business requirements. The Department may require the small business to provide additional proof of eligibility to verify the requirements of ~~House File 2460~~ Iowa Code 314.14 are not exceeded.

TSB Bond Waiver – Iowa Code 12.44 requires agencies of state government to waive the requirement of satisfaction, performance, surety, or bid bonds for targeted small businesses which are able to demonstrate the inability of securing such a bond because of a lack of experience, lack of net worth, or lack of capital. This waiver will not apply to businesses with a record of repeated failure of substantial performance or material breach of contract in prior circumstances. The waiver will only be applied to a project or individual transaction amounting to fifty thousand dollars or less, notwithstanding Iowa Code section 573.2. In order to qualify, the TSB shall provide written evidence to the Department of inspections and appeals that the bond would otherwise be denied the business. The granting of the waiver will in no way relieve the business from its contractual obligations and will not preclude the Department from pursuing any remedies under law upon default or breach of contract. The Department of inspections and appeals will certify TSBs for eligibility and participation in this program and will make this information available to other state agencies.

Targeted Small Business (TSB) – Iowa Code 15.102 paragraph 7a defines a *"Targeted small business"* as a small business which is 51% or more owned, operated, and actively managed by one or more women, minority persons, or persons with a disability.

09XXX.03 BIDDING FOR CONTRACTS.
Only firms designated as approved Certified Small Business Contractors (CSBCs) by the Department will be allowed to bid on proposals designated for Small Business Contractors. A CSBC wishing to bid on a proposal designated for Small Business Contractors shall submit a written request to bid using the standard Iowa DOT procedures to be approved to bid on a proposal. The Department will give either written approval or denial of each request. Prequalification by the Department is not required, but the Department may require a CSBC to provide references or examples of similar types of work in order to be approved for bidding on individual proposals. ~~If approved to bid, the CSBC shall submit either a Proposal Guaranty (Article 1102.11 of the Standard Specifications) or a TSB Bond Waiver with their bid.~~

Prior to execution of a contract, the CSBC will be required to provide:

1. A Certificate of Insurance (as required by Article 1103.04 of the Standard Specifications) and
2. Either a Performance Bond (as required by Article 1103.25 of the Standard Specifications) or a TSB Bond Waiver.

Article 1102.19 of the Standard Specifications does not apply to this contract.

A Traffic Control Technician according to Article 2528.01, C, 1, of the Standard Specifications is not required for this contract.

09XXX.04 CONSTRUCTION OF THE WORK.
Article 1108.01 of the Standard Specifications allows a contractor to subcontract up to 70% of the contract amount. On contracts designated for CSBCs the Contractor may subcontract 70% of the contract amount, but this work shall only be subcontracted to another CSBC.

While the Department recognizes that a small business may not have all the equipment and resources of ~~may~~ larger contractors, all requirements of the contract documents shall apply to the CSBC.

09XXX.05 PAYMENT FOR WORK.
Payment for work will be according to Article 1109.05 of the Standard Specifications. ~~The Engineer will make advance payment of up to 25% of the contract amount when work is initiated if advanced payment is requested by the CSBC. This advance payment will be removed from the third progress payment voucher as work is performed.~~

SPECIFICATION REVISION SUBMITTAL FORM

Submitted by: Tom Reis	**Office:** Specifications	**Item 8**
Submittal Date: August 28, 2010	**Proposed Effective Date:** November 2011	
Article No.: **Title:**	**Other:** SS-09XXX, Supplemental Specifications for Wet Retroreflective Removable Tape Markings	

Specification Committee Action: Approved with changes.

Deferred:	**Not Approved:**	**Approved Date:** 09/09/2010	**Effective Date:** 12/21/2010

Specification Committee Approved Text: See attached Draft SS for Wet Reflective Removable Tape Markings.

Comments: A reference to Materials I.M. 483.06 was added.

The Specifications Section asked when this SS will be used. The Office of Design would need some indication on when to use the bid item for Wet Retroreflective Removable Tape Markings. It was assumed that the Work Zone Traffic Control Engineer would make the decision to use these markings when the Traffic Control Plan is reviewed. The Specifications Section will verify how this bid item will be specified for use on certain projects. The Office of Contracts will add the SS when the bid item is used on the plan.

The Office of Local Systems verified that this specification will be available for local public agencies to use.

The Office of Design asked whether this product would be considered proprietary. There is currently one approved product on I.M. 483.06, another product has been approved, but is not yet on the list and a third product may soon be eligible to be approved.

Specification Section Recommended Text: See attached Draft SS for Wet Reflective Removable Tape Markings.

Comments:

Member's Requested Change: **(Do not use 'Track Changes', or 'Mark-Up'. Use ~~Strikeout~~ and Highlight.)**
See attached Supplemental Specification.

Reason for Revision: Add a more visible pavement marking tape for select locations.

County or City Input Needed (X one)			**Yes**	**No** X	
Comments:					
Industry Input Needed (X one)			**Yes**	**No** X	
Industry Notified:	**Yes** X	**No**	**Industry Concurrence:**	**Yes** X	**No**
Comments:					

DRAFT SS-09XXX
(New)

Iowa Department of Transportation

SUPPLEMENTAL SPECIFICATIONS
FOR
WET RETROREFLECTIVE REMOVABLE TAPE MARKINGS

Effective Date
December 21, 2010

THE STANDARD SPECIFICATIONS, SERIES 2009, ARE AMENDED BY THE FOLLOWING MODIFICATIONS AND ADDITIONS. THESE ARE SUPPLEMENTAL SPECIFICATIONS AND THEY SHALL PREVAIL OVER THOSE PUBLISHED IN THE STANDARD SPECIFICATIONS.

Apply Section 2527 of the Standard Specifications with the following modifications:

09XXX.01 Description.
Furnish, install, maintain, and remove or obliterate pavement markings in work zones according to the contract documents.

09XXX.02 Materials.

A. General.
Preformed markings consist of white or yellow films providing immediate and continuing retroreflection during dry, wet, and rainy conditions. Ensure film is free of lead, chrome, and other heavy metals as defined by the EPA.

Precoat markings with pressure sensitive adhesive capable of adhering to the pavement at temperatures as low as 50°F (10°C) in accordance with the manufacturer's recommendations.

B. Classification.
Ensure tape design and manufacture allows it to be readily removed when markings are no longer needed. Ensure tape is capable of performing for the duration of a normal construction season* and being removed intact or in large pieces. Ensure tape is reflective throughout its useful life.

*Normal construction season is defined as the time between the last snowplowing in the spring and the first snowplowing in the fall/winter.

C. Requirements.

1. Retroreflectance.
White and yellow markings shall have initial expected retroreflectance values as shown in Table 1 under dry, wet, and rainy conditions.

Measure retroreflectance values under wet conditions according to ASTM E 2176 or ASTM E 2177. Measure wet retroreflectance values under a “condition of continuous wetting”

(simulated rain) according to ASTM E 2176, and to reduce variability between measurements, ensure test is performed in a controlled laboratory environment while the marking is positioned with a 3 to 5 degree lateral slope. Use wetting agent to improve wetting of pavement marking with water. Use of a 0.1% (by volume) liquid soap solution is recommended. Report measurements as an average for each roll tested, in at least three locations.

Measure wet retroreflectance values under a "condition of wetness" according to ASTM E 2177. Test may be performed with the marking installed on the road. Test new markings using a wetting agent previously described. Perform laboratory measurements using a 3 to 5 degree lateral slope. Report measurements as an average for each roll tested, in a minimum of three locations.

Table 1: Expected Initial R_L under dry, wet, and rainy conditions

WHITE	**Dry, Wet, & Rainy**
Entrance Angle	88.76 degrees
Observation Angle	1.05 degrees
Retroreflected Luminance R_L [(mcd • ft^{-2}) • fc^{-1}] (R_L [(mcd • m^{-2}) • lx^{-1}])	150
YELLOW	**Dry, Wet, & Rainy**
Entrance Angle	88.76 degrees
Observation Angle	1.05 degrees
Retroreflected Luminance R_L [(mcd • ft^{-2}) • fc^{-1}] (R_L [(mcd • m^{-2}) • lx^{-1}])	100

2. **Removability.**
Pavement markings shall be removable from the pavement intact or in large pieces, at temperatures above freezing without the use of heat, solvents, grinding, or blasting; and with no permanent scarring of the roadway surface.

3. **Patchability.**
Pavement marking material shall be capable of being patched in accordance with manufacturer's instructions.

4. Wet Retroreflective Removable Tape Markings shall be in accordance with Materials I.M. 483.06.

090XXX.03 Construction.
Place markings according to the following:

A. Place markings as specified in the contract documents.

B. Place markings on clean dry surfaces according to the manufacturer's instructions.

C. Cut markings at joint lines to facilitate replacement.

09XXX.04 Method of Measurement.
Wet Retroreflective Removable Tape Markings will be measured according to Article 2527.04.

Removal in construction work zones will not be measured for payment, but shall be considered incidental to the work.

09XXX.05 Basis of Payment.
Wet Retroreflective Removable Tape Markings will be paid for according to Article 2527.05. Additional markings placed due to loss of retroreflectivity or obliterated material will not be measured for payment and shall be considered incidental to the contract unit price.