

Design and Tabulation Forms

Estimate of Quantities

NO.	DATE	TITLE
100-0A	10-28-97	Estimated Roadway Quantities (1 Division Project)
100-1A	07-15-97	Estimated Project Quantities (1 Division Project)
100-1C	04-17-12	Estimated Project Quantities (Up to a 5 Division Project)
100-1D	10-18-05	Project Description
100-4A	10-29-02	Estimate Reference Information
100-7	10-16-12	Fencing
100-10	10-21-14	Floating Silt Curtains
100-11	04-18-17	Erosion Control for Intake or Manhole Well
100-12A	08-01-08	Estimated Erosion Control Project Quantities P.S. & E. Only
100-13	10-15-13	Silt Ditches
100-14	10-18-16	Silt Basins
100-15	10-15-13	Silt Dikes
100-16	10-19-10	Tabulation of Intercepting Ditches
100-17	04-20-10	Tabulation of Silt Fences
100-18	10-18-16	Silt Fences for Ditch Checks
100-19	04-19-16	Perimeter and Slope Sediment Control Device
100-20	08-01-08	Planting Quantities Listing
100-21	08-01-08	Tabulation of Flowable Mortar Backfill
100-22	04-21-15	Rolled Erosion Control
100-23	04-21-15	Rock Erosion Control
100-24	04-21-15	PCC Pavement
100-25	04-21-15	HMA Pavement
100-26	10-15-13	Incidental Items
100-27	10-20-09	Pavement Smoothness + PCC Texture
100-28	10-19-10	Longitudinal Grooving
100-32	10-18-16	Rock Check Dam
100-33	10-18-16	Temporary Sediment Control Basin
100-34	04-19-16	Stormwater Drainage Basin
100-35	04-19-16	Summary of Stormwater Storage

Estimate of Quantities

NO.	DATE	TITLE
100-36	04-18-17	Open-Throat Curb Intake Sediment Filter
100-37	04-18-17	Grate Intake Sediment Filter Bag

Design Information

NO.	DATE	TITLE
101-4	04-30-02	Rural Design Designation
101-5	04-30-02	Urban Design Designation
101-6	04-30-02	Rural Urban (Combination) Design Designation
101-7	04-30-02	Interstate Design Designation
101-8	10-21-14	Wedge Course for Superelevated Curves
101-10	04-21-15	Painted Islands
101-16	10-20-09	Alignment Coordinates
101-17	04-19-11	Spiral/Circular Curve Data
101-18	04-19-11	Superelevation Data

Access and Maintenance Data

NO.	DATE	TITLE
102-3	10-15-13	Access Points and Safety Ramps
102-4	10-18-11	Locations of Road Closure Barricades
102-5	04-18-17	Existing Pavement
102-5A	10-20-15	Existing HMA Pavement for Recycling
102-6C	04-18-17	Full Depth Patches
102-10	04-18-17	Partial Depth PCC Finish Patches
102-11	04-18-17	Partial Depth HMA Finish Patches
102-12	04-18-17	Partial Depth Irregular HMA Finish Patches
102-14	04-18-17	Partial Depth HMA or PCC Repair Patches
102-16	10-21-14	Notches and Runouts for Resurfacing

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NO.	DATE	TITLE
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103-3	10-16-12	Proposed Subgrade Treatment
103-4	--	VOID
103-5	10-15-13	Settlement Plates
103-6	04-19-11	Embankment with Moisture Control
103-7	08-01-08	Shrinkage Data
103-10	04-18-17	Topsoil Stripping and Placement
103-11	10-18-16	Select Treatment

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NO.	DATE	TITLE
104-3	04-21-15	Drainage Structure By Road Contractor
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104-5A	10-15-13	Intakes and Utility Accesses
104-5B	10-20-15	Storm Sewer
104-5C	04-21-15	List of Subdrain Work
104-6	04-19-16	Wick Drain or Sand Drain Fields
104-8	04-21-15	Bridge End Drains
104-8A	04-18-17	Scour Protection or Rock Flume for Bridge End Drain
104-9	04-21-15	Longitudinal Subdrain Shoulder and Backslope
104-10	08-01-08	Adjustment of Fixtures
104-11	08-01-08	Rebuilding of Intakes and Utility Accesses
104-12	04-21-15	Subdrain and Grading at Side Piers
104-13	04-18-17	Foreslope Flattening and Drainage Structures by Road Contractor (Mainline Pipes)
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SECTION

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106-2	04-18-17	Leveling Courses
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106-5	10-21-14	Areas For Pavement or Base Widening
106-7	08-01-08	Fabric Reinforcement for Control of Reflective Cracking
106-8	04-19-11	Longitudinal Joint Repair

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107-25	08-01-08	Rock Splitting
107-28	04-21-15	Tabulation of Template Quantities and Adjustments
107-29	04-15-14	Tabulation of Template Quantities and Adjustments
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108-8A	10-18-16	Steel Beam Guardrail at Concrete Barrier or Bridge Rail End Section
108-8B	04-19-16	Steel Beam Guardrail for Side Obstacle (Two-Way Protection)
108-8C	04-19-16	Steel Beam Guardrail for Side Obstacle (One-Way Protection)
108-8D	04-19-16	Steel Beam Guardrail at Railroad Signals
108-9A	04-20-10	High Tension Cable Guardrail
108-11A	08-01-08	Highway Lighting Data
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108-13A	08-01-08	Safety Closures
108-15	08-01-08	Concrete Steps and Combined Concrete Steps and Retaining Wall Construction
108-16	10-19-10	Combined Sidewalk and Retaining Wall Construction
108-18	10-21-14	Concrete Barrier at Median Locations
108-18B	10-16-12	Concrete Barrier at Side Locations
108-20	04-15-14	Concrete Barrier with MSE Wall
108-22	04-16-13	Pavement Marking Line Types
108-23A	08-01-08	Traffic Control Plan
108-23B	04-21-15	Traffic Control Closure Table(s)
108-24	04-21-15	Safety Grate Treatment
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108-26A	08-01-08	Staging Notes
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108-28	08-01-08	Temporary Traffic Signals
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108-30	04-16-13	Crash Cushions
108-33	04-19-16	Temporary Barrier Rail
108-34	10-19-10	Chevrons
108-35	04-17-12	Temporary Lane Separator System

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NO.	DATE	TITLE
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110-2	04-16-13	Removal of Existing Structures
110-3	08-01-08	Flume Removal
110-4	08-01-08	Curb Removal
110-5	10-20-15	Sidewalk Removal
110-6	08-01-08	Breaking Up Pavement
110-7A	04-17-12	Removal of Steel Beam Guardrail
110-7B	10-19-10	Removal of Cable Guardrail
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110-9	10-18-11	Culvert Abandonment
110-10	08-01-08	Salvage and Removal of Buildings
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110-12A	10-18-16	Pollution Prevention Plan
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SECTION

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112-4	10-21-14	Curbs and Raised Islands
112-5	10-20-15	Concrete Medians
112-6	04-18-17	Bridge Approach Section
112-7	10-19-10	Rumble Strip Panels
112-8	04-15-14	Median Crossovers
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04-18-17

Sidewalks

NO.	DATE	TITLE
113-1	04-16-13	Sidewalks
113-2	04-16-13	Pedestrian Path Closures
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113-10	04-18-17	Sidewalk Compliance

Signing

NO.	DATE	TITLE
190-01	10-15-13	Sign Support Structures
190-10	10-15-13	Overhead Bridge Mounted Sign Bracket Assemblies
190-11	10-15-13	Signing Materials for At-Grade Crossovers
190-25	10-21-14	Reference Location Signs and Delineators
190-50	10-15-13	Materials for Type 'B' Signs
190-51	10-15-13	Materials for Type 'A' Signs
190-52	04-18-17	Materials for Overhead Sign Support Structures
190-54	04-18-17	Signing Materials for Expressway At-Grade Intersections
190-61	10-15-13	Existing Signs to be Reinstalled
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190-65	10-15-13	Special Sign Mounting Brackets
190-66	10-21-14	Summary of Type 'A' Signs

Dynamic Message Signing

NO.	DATE	TITLE
192-01	04-18-17	Materials for Steel Roadside DMS Sign Support

ESTIMATED ROADWAY QUANTITIES (1 DIVISION PROJECT)					
Item No.	Item Code	Item	Unit	Total	As Built Qty.

ESTIMATED PROJECT QUANTITIES (1 DIVISION PROJECT)					
Item No.	Item Code	Item	Unit	Total	As Built Qty.

ESTIMATED PROJECT QUANTITIES (UP TO A 5 DIVISION PROJECT)														
Division 1: Division 2: Division 3: Division 4: Division 5:														
Item No.	Item Code	Item	Unit	Estimated					As Built					
				Division 1	Division 2	Division 3	Division 4	Division 5	Total	Division 1	Division 2	Division 3	Division 4	Division 5

PROJECT DESCRIPTION	

ESTIMATE REFERENCE INFORMATION		
Item No.	Item Code	Description

FENCING																	
* Bid Item																	
Refer to MI-101, MI-102, MI-103, MI-104, 510-3, and 510-5																	
Location				Side	Chain Link				Deer				Field		Channel Crossing		Remarks
From		To			Fence		Gate		Gate		Gate		Length*		Type		
Station	Offset	Station	Offset		Length*	Type	No.*	Type	Fence Length*	Brace Panels*	No.*	Type	Fence Length*	Brace Panels*	No.*	Type	
				LF		EACH		LF	EACH	EACH		LF	EACH	EACH		LF	

FLOATING SILT CURTAINS					
Refer to EC-202					
Station	Hanging	Containment	Clean-out (Containment)	Maintenance of Floating Silt Curtain	Remarks
	LF	LF	LF	LF	

EROSION CONTROL FOR INTAKE OR MANHOLE WELL					
Possible Detail: 570-5					
Location Station	Side	Cover Assembly			Remarks
		Installation	Maintenance	Removal	
		EACH	EACH	EACH	

ESTIMATED EROSION CONTROL PROJECT QUANTITIES P.S. & E. ONLY				
No.	Item	Unit	Division	Total

SILT DITCHES			
Refer to EW-403			
Station to Station	Side	LF	Remarks

SILT BASINS										
Possible Standard: EW-403										
<p>* The functional height used in the volume equation is 95% of effective height. Effective height is 3 feet as shown in EW-403. * Volume equation: (0.5*Length*(Width*Height+width*(Height-Length*Avg%Slope)))</p>										
Basin No.	Location		Bid Items		Stormwater Storage Volume Summary					Remarks
	Station	Side	Installation	Removal	Basin Width	Basin Length	Height	Avg. % Slope	Volume*	
			EACH	EACH	FT	FT	FT		CF	

SILT DIKES				
Refer to EW-403				
Location		Side	Length	Remarks
Station to Station	LF			

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100-16
10-19-10

TABULATION OF INTERCEPTING DITCHES

Location		Length	Remarks
Station to Station	Side	LF	

100-17
04-20-10

TABULATION OF SILT FENCES

Refer to EC-201

Location				Length	Remarks
Begin Station	End Station	Side	LF		

100-18
10-18-16

SILT FENCES FOR DITCH CHECKS

Possible Standard: EC-201 Possible Detail: 570-4

* The functional height used in the volume equation is 85% of effective height. Effective height is 1.58 feet as shown on EC-201.
 * Volume equation: $[\text{ft} \cdot 5 \cdot \text{Spacing}] \cdot [0.5 \cdot H^2 + FS \cdot H + H \cdot 0.5 \cdot H^2 + BS]$

Basin No.	Type	Location			Bid Items			Stormwater Storage Volume Summary				Remarks	
		Station	Side	LF	Installation LF	Maintenance LF	Removal LF	Foreslope FS:1	Backslope BS:1	Ditch Width FT	Avg. % Slope		Volume* CF

100-19
04-19-16

PERIMETER AND SLOPE SEDIMENT CONTROL DEVICE

Possible Standards: EC-204

Location			Length of Installation			Remarks
Begin Station	End Station	Side	9 inch Dia LF	12 inch Dia LF	20 inch Dia LF	

100-20
08-01-08

PLANTING QUANTITIES LISTING

No.	Code	Botanical Names	Common Name	Size	Unit	Total	As Built Quan.

100-21
08-01-08

* Not a bid item

TABULATION OF FLOWABLE MORTAR BACKFILL

Mile Post	Station	Pavement		Subdrain		Subgrade			Remarks	
		Thickness	Pave. Area	Subdrain Outlet*	Granular Backfill	Special Backfill	Flowable Mortar			
		IN	SY	LF	STA	Lt./Rt.	TON	TON		CY

100-22
04-21-15

ROLLED EROSION CONTROL

Refer to EC-101, EC-103 and EC-104

Location				L	W	Turf Reinforcement Mat (TRM) (EC-104)				Slope Protection (EC-103)	Special Ditch Control (EC-101)	Remarks
Road Identification	Begin Station	End Station	Side			Type 1	Type 2	Type 3	Type 4			

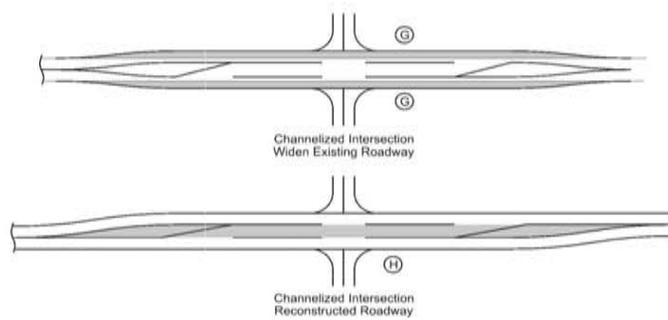
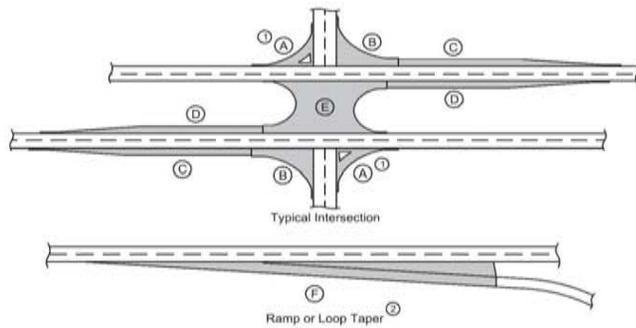
100-23
04-21-15

ROCK EROSION CONTROL

Refer to EC-301

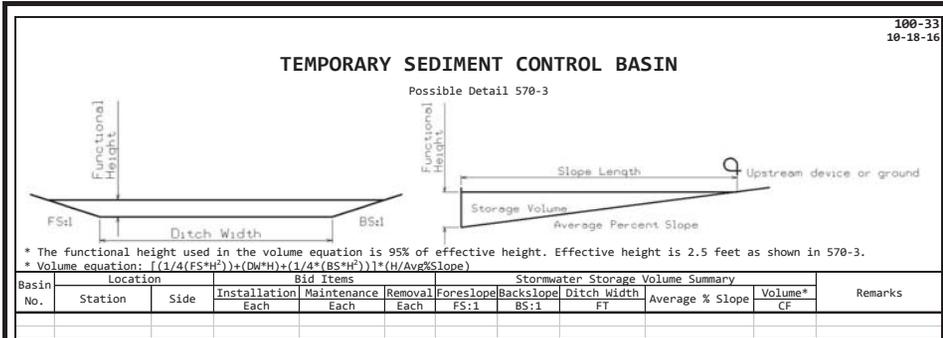
Location				L	W	Rock Erosion Control (REC)					Material Bid Quantities			Remarks
Road Identification	Begin Station	End Station	Side			Type 1	Type 2	Type 3	Type 4	Type 5	Erosion Stone	Class E Revetment	Eng. Fabric	

PCC PAVEMENT



- ① Does not include raised island area or curb. Refer to tabulation 112-4 for quantities.
- ② Refer to PV-410, PV-411, PV-412, and PV-414.
- ③ Quantity includes Pavement Header.

Road Identification	Location		Mainline			Area ③								Total Area By Pavement Thickness		Special Backfill	Modified Subbase	Granular Subbase	Remarks
	Direction of Travel	Station to Station	Width	Length	Area	A ①	B	C	D	E	F ②	G	H	SY	10% IN				
			FT	FT	SY	SY	SY	SY	SY	SY	SY	SY	SY	SY	SY				



100-34
04-19-16

STORMWATER DRAINAGE BASIN

Basin No.	Station to Station	Side	Disturbed Area Acres	Discharge Point		Required Storage Volume CF	Remarks
				Station	Side		

100-35
04-19-16

SUMMARY OF STORMWATER STORAGE

Basin No.	Item	Total Storage Volume Provided	Total Storage Volume Required	Remarks
		CF	CF	

100-36
04-18-17

OPEN-THROAT CURB INTAKE SEDIMENT FILTER

Possible Detail: 570-6

Location Station	Side	Installation	Maintenance	Removal	Remarks
		LF	EACH	EACH	

100-37
04-18-17

GRATE INTAKE SEDIMENT FILTER BAG

Possible Detail: 570-7

Location Station	Side	Installation	Maintenance	Removal	Remarks
		EACH	EACH	EACH	

ACCESS POINTS AND SAFETY RAMPS

102-3
10-15-13

Length of unclassified pipe calculated is based on using Reinforced Concrete Pipe.
 ① Refer to MI-210
 ② Refer to EW-501.
 ③ Refer to EW-501 or EW-502.
 *Predetermined for access point not constructed with this project.

Refer to Cross-Sections

Location		Type	Length of Opening ①			Pipe Culvert ③						Aprons		Driveway Surface Area		Driveway Surfacing Material	Remarks	
Station	Side	A, B, C, Safety Ramp, or Predetermined*	Case	1 1/2" Dropped Curb	3" Dropped Curb	W	① PR	② SR	H	Size	Pipe Length	Lt.	Rt.	No.	HMA	PCC		TON
			1 or 2	LF	LF	FT	FT	FT	FT	IN	LF	LF	LF	No.	SY	SY		TON

LOCATIONS OF ROAD CLOSURE

102-4
10-18-11

BARRICADES

Refer to SI-181 and SI-182.

Location	④	SI-181	SI-182	Remarks
No.	Station	LF	LF	

EXISTING PAVEMENT

102-5
04-18-17

No.	Location					Year	Type	Project Number	Surface		Base		Subbase		Removal		Coarse Aggregate			Reinforcement	Remarks
	County	Route	Dir. of Travel	Begin Ref. Loc. Sign	End Ref. Loc. Sign				Type	Depth	Type	Depth	Type	Depth	Type	Depth	Source	Type	Durability Class	Type	

EXISTING HMA PAVEMENT FOR RECYCLING

102-5A
10-20-15

For informational purposes only. When designed RAP is specified, process the RAP to control the uniformity of the final mixture.

Route No.	Location	Year Placed	Layer	Thickness	Asphalt Binder		Mix														
					Grade	Content	Description	Quality Type	Size	Content	% of -4 that is Type 2	% of +4 that is Type 2	% of +4 that is Type 3	% of +4 that is Type 4	% Crushed	% Limestone					

FULL-DEPTH PATCHES

102-6C
04-18-17

Possible Standards: PR-101, PR-102, PR-103, PR-104, PR-105 and PR-140.

Count	Station	Reference Location Sign	Location				Dimension		PCC Patches				HMA Patches	Composite HMA	Subbase Patches	Subbase Patch w/ 'EF' Joint	Patch Subdrain	'CD' Joints	'CT' Joints	'EF' Joints	Anchor Lugs Removal	Remarks
			Lane	Length	Width	Patch Thickness	With Dowels	Without Dowels	C R C	Ramp with Dowels												
											L, R, or B	FT										

PARTIAL DEPTH PCC FINISH PATCHES

102-10
04-18-17

Location					Estimated Quantities		Remarks
Begin Station	End Station	Begin Reference Location Sign	End Reference Location Sign	Lane	Number of Patches	SF	

PARTIAL DEPTH REGULAR HMA FINISH PATCHES

102-11
04-18-17

Location				Dimension of Patch	Estimated Quantities		Remarks
No.	Station	Reference Location Sign	Lane	Length x Width FT	SY	TON	

PARTIAL DEPTH IRREGULAR HMA FINISH PATCHES

102-12
04-18-17

Location					Estimated Quantities		Remarks
Begin Station	End Station	Begin Reference Location Sign	End Reference Location Sign	Lane	Number of Patches	SY	

PARTIAL DEPTH HMA OR PCC REPAIR PATCHES

102-14
04-18-17

Location						Type HMA or PCC	Dimension of Patch		Est. Quantities			Remarks
No.	Begin Station	End Station	Begin Reference Location Sign	End Reference Location Sign	Lane		Length	Width	PCC	HMA		
											SF	

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102-16
10-21-14

NOTCHES AND RUNOUTS FOR RESURFACING

Refer to PR-201 and PR-202.

① Bid item. Applies only to Types 'N1' and 'N3' on PR-202. Refer to 100-25 for remaining values.

Location Station	Type of Notch or Runout	(S)	(I)	(DI)	(L)	(M)	Pavement Scarification ①	Remarks
		IN	IN	IN	FT	IN	SY	

ENGLISH

IOWA DOT

DESIGN TEAM

COUNTY

PROJECT NUMBER

SHEET NUMBER

103-1
10-19-10

EMBANKMENT WITH MOISTURE AND DENSITY CONTROL

Moisture content shall be within the limits of minus ___ and plus ___ percentage points of optimum for maximum density within the area described and listed below.

Location		Lane	Depth	Compact	Remarks
Station to Station					
			FT	CY	

103-3
10-16-12

PROPOSED SUBGRADE TREATMENT

(For Additional Details see Soils Survey Sheet No. _____ to _____.)

No.	Location		Side	Type	Description			Material	Shrink %	Quantity		Polymer Grid SY	Available From		Remarks
	Begin Station	End Station			Depth	Width	Area			CY	TON		CY	Location or Station to Station	
					FT	FT	SF								

103-5
10-15-13

SETTLEMENT PLATES

Refer to Standard Road Plan EW-212

No.	Location		Remarks
	Station	Offset	

103-6
04-19-11

EMBANKMENT WITH MOISTURE CONTROL

Moisture content shall be within the limits of minus ___ and plus ___ percentage points of Optimum Moisture Content for maximum density within the area described and listed below.

Moisture Control is required for all Class 10 fill placed in all locations and depths. Stability berms placed outside the normal foreslope template and topsoil will not require Moisture Control.

Moisture Control is also required on all select subgrade treatments.

Proposed Subgrade Treatment:
Quantity:

103-7
08-01-08

SHRINKAGE DATA

Material	%	Remarks

103-10
04-18-17

TOPSOIL STRIPPING AND PLACEMENT

Road Identification	Location			Topsoil Stripping Thickness IN	Topsoil Placement Thickness IN	Remarks
	Dir. of Traffic	Begin Station	End Station			

DRAINAGE STRUCTURE BY ROAD CONTRACTOR

Length of unclassified pipe calculated is based on using Reinforced Concrete Pipe.

* Not a bid item

① Diameter or equivalent diameter

② UNCL = Unclassified Pipe CMP = Corrugated Metal Pipe RCP = Reinforced Concrete Pipe LCP = Arch or Elliptical Low Clearance Pipe SARC = Steel Arch Pipe

Drainage Area	Location	Type	Size ①	Kind Of Pipe ②	Length New Const. Bedding Class	Design Cover (H) Camber* (DR-102)	Apron No.	Apron Guard* (DR-213) Elbow* (DR-141) Discharge* (DR-102)	Tee Section* (DR-142)	"D" Section* (DR-141)	Reducer*	Type 'C' Connections* (DR-122)	Connected Pipe Joint* (DR-121)	4" Perforated Subdrain*	Flow Line Elevations				Dimensions Lin. Ft.				Skew Ahead Degrees		Dike			Class 20	Flowable Material	Floodable* Backfill	Porous* Backfill	Flooded Backfill	Remarks								
															Lt.	Rt.	Other	Other	Total		Extensions		Lt.	Rt.	Lt.	Rt.	Type							Location Station	Top Elevation	Type	CY	CY	CY	CY	CY
																			Lt.	Rt.	Lt.	Rt.																			
ACRE			IN		LF	FT	IN	OUT	No.	No.	No.	No.	Type	No.	Type	FT	Lt.	Rt.	Other	Other	Lt.	Rt.	Lt.	Rt.	Lt.	Rt.	Lt.														

DRAINAGE STRUCTURES BY CULVERT CONTRACTOR

* Not a Bid Item

Location	Design Number	Size Ft.	Kind	Lgth. New Const. Lin. Ft.	No. of Aprons	Flow Line Elevation				Dimensions - Lin. Ft.				Skew Ahead		By Road Contractor Dike				Floodable* Backfill (A) Cu. Yds.	Porous* Backfill (B) Cu. Yds.	Flooded Backfill (A+B) Cu. Yds.	Remarks																
						Left	Right	Other	Other	Left	Right	Left	Right	Left	Right	Degrees	Lt.	Rt.	Location Station					Top Elev.	Type	Comp. Backfill Cu. Yds.													
																											Lt.	Rt.	Lt.	Rt.	Lt.	Rt.							

INTAKES AND UTILITY ACCESSES

* Bid Item
** For SW-545

No.	Location Station	Type or Standard Road Plan*	Form Grade Elev.	Bottom Well Elev.	Extension Length** FT	Notes

STORM SEWER

① Diameter or equivalent diameter
* Bid Item
** For SW-545

INTAKES AND UTILITY ACCESSES							PIPES															
No.	Location Station and Offset	*Type or Standard Road Plan	Form Grade Elev.	Bottom Well Elev.	Extension Length** FT	Notes	Line Number	Intake/ Utility Access No. From To	Class 'D'	Pipe Size ① IN	Bid* Length FT	Design Length FT	Slope %	Connected Pipe Joint (DR-121) Type	Flow Lines			Pipe Profile Sheet No.	Notes			
															Inlet Elevation	Outlet Elevation	Other Elevation					

LIST OF SUBDRAIN WORK

Refer to DR-121, DR-201, DR-203, DR-301, DR-302, DR-303, DR-304, and DR-305.

* Not a bid item

No.	Location Station to Station	Type of Installation DR-301, DR-302, DR-303	Pipe		Aprons				Outlets		Connected Pipe Joints* DR-121 Type No.	Trench Drain LF	Granular Material Blanket CY	Porous Backfill* CY	Class "A" Crushed Stone* CY	Remarks	
			Concrete C.M.P., C.M.P. Coated, or Plastic	Dia.	Length	DR-201	DR-203	DR-304	DR-305	Type							No.
				IN	LF	No.	No.	No.	No.								

WICK DRAIN OR SAND DRAIN FIELDS
Possible Standards: DR-301, DR-304, DR-305 and Tabulation 104-5C.

* Not a bid item.

Location	Sand Drains		Wick Drains		Horizontal Strip Drains			Granular Material for Blanket and Subdrain	Drain DR-301 Type 2	Porous Backfill*	Subdrain Outlets			Remarks
	Number of Drains*	Total Length	Number of Drains*	Total Length	Longitudinal	Transverse	Total Length				DR-304	DR-305		
													LF	
Station to Station								CY	LF	CY				

BRIDGE END DRAINS

① Refer to Standard Road Plan SW-538
② Not a Bid Item

Location		Shoulder		Polymer Grid ②	Installation Information				Modified Subbase ②	Remarks				
Bridge Station	Bridge Corner	Distance DI-1 or DI-2 ①	Panels Required		PCC	Elevation					Length			
						A B C or D	Sq.Yds.	Sq.Yds.				Form Grade	A	B

SCOUR PROTECTION OR ROCK FLUME FOR BRIDGE END DRAIN

Refer to Standard Road Plan DR-401 and DR-402

Location		Bid Items			PCC Paved Shoulder			Scour Protection (DR-401)			Rock Flume (DR-402)			Remarks
Bridge Station	Bridge Corner	Distance DI-1 or DI-2	PCC Paved Shoulder	Bridge End Drain	Panels Required	Polymer Grid	Modified Subbase	Transition Mat	Turf Reinforced Mat (TRM), Type 2	Macadam Stone Base	Engineering Fabric	Erosion Stone		
													FT	

LONGITUDINAL SUBDRAIN SHOULDER AND BACKSLOPE

Refer to Soils Sheets

① Refer to EW-203, EW-204, or EW-211.
*Not a bid item

Location				Longitudinal Subdrain (DR-303)						Subdrain Outlet		Porous* Backfill	Class "A" Crushed Stone	Remarks	
Line No.	Road or Lane Ident.	Station to Station	Side	Shoulder		Backslope		Bridge Berm ①		DR-303, DR-304, or DR-305					
				Depth	Size	Length	Size	Length	Size	Type	Length				Station
				IN	IN	FT	IN	FT	IN		FT				

ADJUSTMENT OF FIXTURES

No.	Location Station	Type of Fixture	Adjustment

REBUILDING OF INTAKES AND UTILITY ACCESSES

No.	Location Station	Type	Adjustment

SUBDRAIN AND GRADING AT SIDE PIERS

Refer to EW-211

① Lane(s) to which the pier is adjacent
② Not a Bid Item

Location			Grading			Longitudinal Subdrain (Shoulder)					Remarks		
No.	Direction of Traffic ①	Station	Type No.	Dimensions			Outlet Location	6" C.M.P. Outlet	Plastic Pipe	Porous Backfill ②		Class "A" Crushed Stone ②	
				Lin. Ft.	AL	TL							W

FORESLOPE FLATTENING AND DRAINAGE STRUCTURES BY ROAD CONTRACTOR (MAINLINE PIPES)

Refer to Standard Road Plans DR-121, DR-122, and DR-213.

* Not a bid item

Existing Information		New Information		Length of New Const.	Flow Line Elevations			Dimensions				Removal and Reinstallation of Culvert Aprons and Pipes				New Apron No.		Apron Guard* (DR-213)	Type 'C' Connections* (DR-122)		Connected Pipe Joint* (DR-121)	Embank.- In-Place	Class 20		Remarks		
Location	Size and Type of Culvert	Size	Type of Culvert		LF	LEFT	RIGHT	Total (LF)		Extensions (LF)		Aprons		Culvert Sections		IN	OUT		NO.	TYPE			NO.	TYPE		CY	CY
								LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	NO.*	FT												
		IN																									

104-14 10-15-13				
CONTINUOUS TRENCH DRAIN				
Refer to Detail 500-20				
① Bid Item				
② Not a bid item. Assumes a 6" wide by 8" deep trench.				
Station to Station	Length ①	T	PCC ②	Remarks
	LF	IN	CY	

MILEAGE SUMMARY105-1
09-27-94

Div.	Location	Lin. Ft.	Miles

INDEX OF SHEETS105-3
10-18-05

No.	Description

STANDARD ROAD PLANS105-4
10-18-11

The following Standard Road Plans apply to construction work on this project.

Number	Date	Title

STRENGTHENING COURSES						106-1 04-18-17
Location				Runouts (Lin. Ft.)	Hot Mix Asphalt Pavement	
Being Ref. Location Sign	End Ref. Location Sign	Begin Station	End Station	Back	Ahead	Tons
				Thickness Inches		

LEVELING COURSES						106-2 04-18-17
Location				Hot Mix Asphalt Pavement		Remarks
Being Ref. Location Sign	End Ref. Location Sign	Begin Station	End Station	Average Thickness Inches	Tons	

SHOULDERS FOR WIDENING & RESURFACING						106-4 04-16-13
*Not a Bid Item						
Begin Station	End Station	Side	Length of Shoulder Type in Stations			
			A	B	C	D*

AREAS FOR PAVEMENT OR BASE WIDENING														106-5 10-21-14	
Refer to Standard Road Plans PV-105 or PV-203															
① Bid Item ② Estimated for two applications to achieve lifts and one application of 0.10 Gal/SY adjacent to existing pavement. Priming of subgrade or finished base is not required. Calculations assume a HMA unit weight (lbs/cf) of 145, a Special Backfill unit weight (lbs/cf) of 140, and a Tack Coat unit weight (gal/sy) of 0.05.															
Station to Station	Side	Pavement Type	L Length FT	W Width FT	T Thickness IN	HMA Base Widening ① TONS	HMA Base Widening ① SY	PCC Base Widening ① SY	PCC Pavement Widening ① SY	Tack Coat		Asphalt Binder ① TONS	Class 13 Excavation, Widening ① CY	Special Backfill ① TONS	Remarks
										Lifts GAL	Vertical Edge GAL	Tack Coat ② GAL			

TABULATION OF FABRIC REINFORCEMENT FOR CONTROL OF REFLECTIVE CRACKING					106-7 08-01-08
Begin Station	End Station	Side	Width	Area	
			Lin. Ft.	Sq. Yds.	

LONGITUDINAL JOINT REPAIR						106-8 04-19-11
Begin Station	End Station	Length FT	Side	Width IN	Pay Length LF	Remarks

SHOULDER MATERIAL AVAILABILITY			
Begin Station	End Station	Side	Estimated Quantity Availability CY

WING DIKES				
Refer to Standard Road Plan EW-210.				
Location Station	Top Elevation	Length FT	Bridge Skew	Earthwork CY

GRADING FOR GUARDRAIL INSTALLATIONS																
Refer to EW-301																
Location		Dimensions (Feet)								Earthwork		Remarks				
No.	Direction of Traffic	Station	Side	Foreslope at Guardrail	X	Y	X	Y	X	Y	X		Y	Z	Excavation Class 10 CY	Embankment In Place CY

GRADING FOR HIGH TENSION CABLE GUARDRAIL INSTALLATIONS									
Refer to Standard Road Plan EW-302									
Lane(s) to which the installation is adjacent.									
Location				Dimensions			Protection Length	Earthwork:	Remarks
No.	Direction of Traffic	Station	Side	C _A	C _O	C _T	(C _A +C _O +C _T)		
				FT	FT	FT	FT	CY	

TABULATION OF ROCK SPLITTING			
Location			
No.	Station to Station	Side	Remarks

PLOWING AND SHAPING		
Refer to Standard Road Plan EW-101		
Station to Station	D FT	Remarks

TABULATION OF TEMPLATE QUANTITIES AND ADJUSTMENTS																					
Refer to Standard Road Plans EW-101 and EW-102.																					
	Cut								Fill							Checks		Topsoil			
	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]	[19]	[20]	[21]
				[3]/1.3	[1]-[2]-[3]	[5]/1.3	[4]+[6]	[3]+[5]		[18]-[2]	[9]+[10]				[11]+[12]+[13]	[14]-[7]				[19]/1.40	[20]-[18]

108-11A
08-01-08

HIGHWAY LIGHTING DATA

108-12
10-21-14

WIRE, CABLE AND CONNECTORS

Circuit Number	Type	Connectors						Phase Lines						Ground		Remarks		
		Quan. No.	Type	Quan. No.	Type	Quan. No.	Type	Quan. No.	Size A.W.G.	LF	Quan. No.	Size A.W.G.	LF	Quan. No.	Size A.W.G.		LF	Size

108-13A
08-01-08

SAFETY CLOSURES

Refer to Section 2518 of the Standard Specifications

Station	Closure Type		Remarks
	Road Qty.	Hazard Qty.	

108-15
08-01-08

CONCRETE STEPS AND COMBINED CONCRETE STEPS AND RETAINING WALL CONSTRUCTION

Location		Steps		Lugs	Landings	Retaining Wall	Concrete	Steel	Handrail	Remarks
Station	Side	W	H	Number Required	Number	LF	Number	CY	LB	

108-16
10-19-10

COMBINED CONCRETE SIDEWALK AND RETAINING WALL

See MI-221

Location		Retaining Wall		Sidewalk		Concrete		Porous Backfill	Reinforcing Steel
Station to Station	Side	Type	Height, H	Thickness	Width, W	Thickness	Retaining Wall		
			FT	FT	FT	FT	CY	CY	

108-18
10-21-14

CONCRETE BARRIER AT MEDIAN LOCATIONS

See BA-100, BA-101, and BA-102.

No.	Begin Station	End Station	Standard Road Plan	Bid Items			Remarks	Expansion Joints		
				Barrier Type		Footing		Station	Side	Remarks
				BA-100 or BA-102 LF	BA-101 EACH					

108-18B
10-16-12

CONCRETE BARRIER AT SIDE LOCATIONS

Refer to BA-102, BA-103, BA-104, BA-105, BA-106, BA-107, and BA-150.

① Lane(s) to which the installation is adjacent.
 ② Refer to the Shoulders tabulation (112-9) for quantities.
 * Bid Item

No.	Direction of Traffic	Location		Side	L2 Offset	Barrier Type (BA-102, BA-103, or BA-104)	Side Barrier			Reinforced Paved Shoulder (Required?) Yes/No	Remarks	Expansion Joints		
		Station to Station					Length of Barrier*	BA-105 Transition Section*	BA-107 End Section*			Station	Side	Remarks

108-20
04-15-14

CONCRETE BARRIER WITH MSE WALL

Refer to Road Design Detail 8208

Station to Station	Side	W	Remarks
		IN	

STAGING NOTES	108-26A 08-01-08

TEMPORARY FLOODLIGHTING LUMINAIRES					108-27 10-16-12
No.	Location Station	Offset	Number Lumin.	Remarks	

TEMPORARY TRAFFIC SIGNALS					108-28 08-01-08
No.	Location Station	Type			Remarks
		One Lane Traffic	Haul Road	Intersection	

PAVEMENT MARKING SYMBOLS AND LEGENDS																									108-29 04-21-15
Refer to PM-111																									
Road Identification	Location		↑	↶	↷	↶↷	↷↶	↶↷↶	↷↶↷	↑	↗	↘	⊗	🚲	♿	♿	SCHOOL	XING	STOP AHEAD	ONLY	BIKE LANE	EXIT	Groove Cuts	Remarks	
	Station	Side																							STAW

CRASH CUSHIONS															108-30 04-16-13										
* Bid Item																									
① Lane(s) to which the installation is adjacent.																									
② Complete this section when using the Temporary Crash Cushion bid item and Earthwork is needed for Sand Barrel placement. Refer to BA-500																									
No.	Direction of Traffic	Location Station	Side	Obstacle Width FT	Crash Cushion (Select One)*						Sand Barrel Details ②					Earthwork*		Spare Parts Kit (Select One)*		Obstacle Description	Remarks				
					Temporary	Temporary Reductive	Temporary Severe Use	Permanent	Permanent Severe Use	V	W	X	Y	Z	Excavation Class 10	Embankment in Place	Permanent	Permanent Severe Use							
																			Length			Length	Length	Length	Length

TEMPORARY BARRIER RAIL										108-33 04-19-16
Possible Standards: BA-400, BA-401										
* Not a bid item. Anchorage requirements are based on TBR locations shown in the plans. TBR alignments that vary from what is shown in the plans may result in additional TBR sections requiring anchorage.										
No.	Station to Station	Length LF	(Select One)		Anchored* (Y/N)	Modular Glare Screen System (Y/N)	Remarks			
			Steel BA-400	Concrete BA-401						

CHEVRONS				108-34 10-19-10
Refer to Standard Road Plan SI-175				
Station to Station	Guidance Marker - Chevron	Ⓢ	Remarks	
	EACH	FT		

TEMPORARY LANE SEPARATOR SYSTEM				108-35 04-17-12
See TC-61				
Station to Station	Length LF	Remarks		

REMOVAL OF PAVEMENT Refer to Tabulation 102-5							110-1 04-16-13
* Not a Bid Item							
Begin Station	End Station	Side	Pavement Type	Area	Saw Cut*	Remarks	
				SY	LF		

REMOVAL OF EXISTING STRUCTURES			110-2 04-16-13
Location	Description	Remarks	

FLUME REMOVAL					110-3 08-01-08
Location		Remove Slope Drain		Remarks	
No.	Station	Lin. Ft. Conc.	Lin. Ft. Metal		
		Left Rt.	Left Rt.		

CURB REMOVAL					110-4 08-01-08
Begin Station	End Station	Side	Length STA	Remarks	

SIDEWALK REMOVAL					110-5 10-20-15
* Not a bid item					
Begin Station	End Station	Area SY	Saw Cut* LF	Remarks	

BREAKING UP PAVEMENT					110-6 08-01-08
Station to Station	Width	Area SY	Remarks		

REMOVAL OF STEEL BEAM GUARDRAIL					110-7A 04-17-12
* Not a bid item					
① Lane(s) to which the installation is adjacent.					
② Includes Length of End Terminals and End Anchors.					
Location					
No.	Direction of Traffic	Station to Station	Side	Removal of Guardrail LF	

REMOVAL OF CABLE GUARDRAIL							110-7B 10-19-10	
* Not a bid item								
① Lane(s) to which the installation is adjacent								
Location								
No.	Direction of Traffic	Station to Station	Side	Type (High/Low Tension)	Cable	Post * Footings, Concrete	End Terminal*	Remarks
					Remove LF	Remove Yes/No	Remove No.	

REMOVAL OF CONCRETE DRIVES					110-8 08-01-08
Location		Area SY	Remarks		
Station	Side				

CULVERT ABANDONMENT					110-9 10-18-11
Refer to Details 4315 and 4316					
* Not a bid item					
Location Station	Description	Fill Material		4"	Remarks
		Flowable Mortar	Granular Backfill*	Perforated Subdrain*	
		CY	TON	LF	

SALVAGE AND REMOVAL OF BUILDINGS										110-10 08-01-08
Item No.	Parcel No.	Address	Item	Foundation	Former Owner	Use of Building Previous/Present	Age Of Bldg.	Asbestos Content In Bldgs.		

ASBESTOS REMOVAL IN BUILDINGS											110-11 08-01-08						
Parcel No.	Address	Item	Age Of Bldg.	Use Of Building Previous/Present	Friable Asbestos					Non-Friable Asbestos							
					Pipe Wrap		Material By Area			Location and Identification		Percent & Type Of Asbestos	Sq. Ft.				
					Location and Identification	Percent & Type Of Asbestos	Lin. Ft.	Location and Identification	Percent & Type Of Asbestos	Sq. Ft.	Location and Identification			Percent & Type Of Asbestos	Sq. Ft.		

ENGLISH	IOWA DOT	DESIGN TEAM	COUNTY	PROJECT NUMBER	SHEET NUMBER
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POLLUTION PREVENTION PLAN

This project is regulated by the requirements of the Iowa Department of Natural Resources (DNR) National Pollutant Discharge Elimination System (NPDES) General Permit No. 2 OR an Iowa Department of Natural Resources (DNR) National Pollutant Discharge Elimination System (NPDES) individual storm water permit. The Contractor shall carry out the terms and conditions of this permit and the Pollution Prevention Plan (PPP).

This Base PPP includes information on Roles and Responsibilities, Project Site Description, Controls, Maintenance Procedures, Inspection Requirements, Non-Storm Water Controls, Potential Sources of Off Right-of-Way Pollution, and Definitions. This plan references other documents rather than repeating the information contained in the documents. A copy of this Base Pollution Prevention Plan, amended as needed per plan revisions or by contract modification, will be readily available for review.

All contractors shall conduct their operations in a manner that controls pollutants, minimizes erosion, and prevents sediments from entering waters of the state and leaving the highway right-of-way. The prime contractor shall be responsible for compliance and implementation of the PPP for their entire contract. This responsibility shall be further shared with subcontractors whose work is a source of potential pollution as defined in this PPP.

I. ROLES AND RESPONSIBILITIES

A. Designer:

1. Prepares Base PPP included in the project plan.
2. Prepares Notice of Intent (NOI) submitted to Iowa DNR.
3. Signature authority on the Base PPP and NOI.

B. Contractor/Subcontractor:

1. Affected contractors/subcontractors are co-permittees with the IDOT and will sign a certification statement adhering to the requirements of the NPDES permit and this PPP plan. Affected contractors/subcontractors are anyone responsible for sediment or erosion controls or involved in land disturbing activities. All co-permittees are legally required under the Clean Water Act and the Iowa Administrative Code to ensure compliance with the terms and conditions of this PPP.
2. Submit an Erosion Control Implementation Plan (ECIP) according to Specifications Section 2602 and any additional plan notes.
3. Install and maintain appropriate controls.
4. Supervise and implement good housekeeping practices.
5. Conduct joint required inspections of the site with inspection staff.
6. Comply with training and certification requirements of Specifications Section 2602.
7. Signature authority on Co-Permittee Certification Statements and storm water inspection reports.

C. RCE/Inspector:

1. Update PPP whenever there is a change in design, construction, operation or maintenance, which has a significant effect on the discharge of pollutants from the project.
2. Maintain an up-to-date record that identifies contractors and subcontractors as co-permittees.
3. Make these plans available to the DNR upon their request.
4. Conduct joint required inspections of the site with the contractor/subcontractor.
5. Complete an inspection report after each inspection.
6. Signature authority on storm water inspection reports and Notice of Discontinuation (NOD).

II. PROJECT SITE DESCRIPTION

- A. This Pollution Prevention Plan (PPP) is for the construction of a "Describe Type Of Facility".
- B. This PPP covers approximately "Provide # Of Acres" acres with an estimated "Provide # Of Acres" acres being disturbed. The portion of the PPP covered by this contract has "Provide # Of Acres" acres disturbed.
- C. The PPP is located in an area of "Provide # Of Types Of Soil Association" soil association ("Provide Soil Association Type Or *Types"). The estimated weighted average runoff coefficient number for this PPP after completion will be "Provide runoff coefficient Number".
- D. Storm Water Site Map - Multiple sources of information comprise the base storm water site map including:
 1. Drainage patterns - Plan and Profile sheets and Situation plans.
 2. Proposed Slopes - Cross Sections.
 3. Areas of Soil Disturbance - construction limits shown on Plan and Profile sheets.
 4. Location of Structural Controls - Tabulations on C sheets.
 5. Locations of Non-structural Controls - Tabulations on C sheets.
 6. Locations of Stabilization Practices - generally within construction limits shown on Plan and Profile sheets.
 7. Surface Waters (including wetlands) - Project Location Map and Plan and Profile sheets.
 8. Locations where storm water is discharged - Plan and Profile sheets.
- E. The base site map is amended by contract modifications and progress payments (fieldbook entries) of completed erosion control work. Also, due to project phasing, erosion and sediment controls shown on project plans may not be installed until needed, based on site conditions. For example, silt fence ditch checks will typically not be installed until the ditch has been installed. Installed locations may also be modified from tabulation locations by field staff. Installed locations will be documented by fieldbook entries.
- F. Runoff from this work will flow into "List Outlets For Runoff".

III. CONTROLS

- A. The contractor's ECIP specified in Article 2602.03 for accomplishment of storm water controls should clearly describe the intended sequence of major activities and for each activity define the control measure and the timing during the construction process that the measure will be implemented.
- B. Preserve vegetation in areas not needed for construction.
- C. Sections 2601 and 2602 of the Standard Specifications define requirements to implement erosion and sediment control measures. Actual quantities used and installed locations may vary from the Base PPP and amendment of the plan will be documented via fieldbook entries or by contract modification. Additional erosion and sediment control items may be required as determined by the inspector and/or contractor during storm water monitoring inspections. If the work involved is not applicable to any contract items, the work will be paid for according to Article 1109.03 paragraph B.
 1. EROSION AND SEDIMENT CONTROLS
 - a. Stabilization Practices
 - 1) Site plans will ensure that existing vegetation or natural buffers are preserved where attainable and disturbed portions of the site will be stabilized.
 - 2) Stabilization practices shall be initiated as soon as practicable in portions of the site where construction activities have temporarily or permanently ceased.
 - 3) Temporary stabilizing seeding shall be completed as the disturbed areas are constructed. If construction activity is not planned to occur in a disturbed area for at least 21 days, the area shall be stabilized by temporary seeding or mulching within 14 days.
 - 4) Permanent and Temporary Stabilization practices to be used for this project are located in the Estimated Project Quantities (100-0A, 100-1A, or 100-1C) and Estimate Reference Information (100-4A) located on the C sheets of the plan. Typical drawings detailing construction of the practices to be used on this project are referenced in the Standard Road

POLLUTION PREVENTION PLAN

- Plans Tabulation.
- 5) Preservation of existing vegetation within right-of-way or easements will act as vegetative buffer strips.
- 6) Preservation of topsoil: Bid items to be used for this project are located in the Estimated Project Quantities (100-0A, 100-1A, or 100-1C) and Estimate Reference Information (100-4A) located on the C sheets of the plan. Additional information may be found in Tabulations in the C or T sheets of the plans or is referenced in Standard Specifications Section 2105.

b. Structural Practices

- 1) Structural practices will be implemented to divert flows from exposed soils and detain or otherwise limit runoff and the discharge of pollutants from exposed areas of the site. Additionally, structural practices may include: silt basins that provide 3600 cubic feet of storage per acre drained or equivalent sediment controls, outlet structures that withdraw water from surface when discharging basins, and controls to direct storm water to vegetated areas.
- 2) Structural practices to be used for this project are located in the Estimated Project Quantities (100-0A, 100-1A, or 100-1C) and Estimate Reference Information (100-4A) located on the C sheets of the plan, as well as all other item specific Tabulations. Typical drawings detailing construction of the devices to be used on this project can be found on the B sheets of the plans or are referenced in the Standard Road Plans Tabulation.

c. Storm Water Management

- 1) Measures shall be installed during the construction process to control pollutants in storm water discharges that will occur after construction operations have been completed. This may include velocity dissipation devices at discharge locations and along length of outfall channel as necessary to provide a non-erosion velocity flow from structure to water course. If included with this project, these items are located in the Estimated Project Quantities (100-0A, 100-1A, or 100-1C) and Estimate Reference Information (100-4A) located on the C sheets of the plan, as well as all other item specific Tabulations. Typical drawings detailing construction of the practices to be used on this project are referenced in the Standard Road Plans Tabulation. The installation of these devices may be subject to Section 404 of the Clean Water Act.

2. OTHER CONTROLS

- a. Contractor disposal of unused construction materials and construction material wastes shall comply with applicable state and local waste disposal, sanitary sewer, or septic system regulations. In the event of a conflict with other governmental laws, rules and regulations, the more restrictive laws, rules or regulations shall apply.
 - 1) Vehicle Entrances and Exits - Construct and maintain entrances and exits to prevent tracking of sediments onto roadways.
 - 2) Material Delivery, Storage and Use - Implement practices to prevent discharge of construction materials during delivery, storage, and use.
 - 3) Stockpile Management - Install controls to reduce or eliminate pollution of storm water from stockpiles of soil and paving.
 - 4) Waste Disposal - Do not discharge any materials, including building materials, into waters of the state, except as authorized by a Section 404 permit.
 - 5) Spill Prevention and Control - Implement procedures to contain and clean-up spills and prevent material discharges to the storm drain system and waters of the state.
 - 6) Concrete Residuals and Washout Wastes - Designate temporary concrete washout facilities for rinsing out concrete trucks. Provide directions to truck drivers where designated washout facilities are located. Designated washout areas should be located at least 50 feet away from storm drains, streams or other water bodies. Care should be taken to ensure these facilities do not overflow during storm events.
 - 7) Concrete Grooving/Grinding Slurry - Do not discharge slurry to a waterbody or storm drain. Slurry may be applied on foreslopes or removed from the project.
 - 8) Vehicle and Equipment Storage and Maintenance Areas - Perform on site fueling and maintenance in accordance with all environment laws such as proper storage of onsite fuels and proper disposal of used engine oil or other fluids on site. Employ washing practices that prevent contamination of surface and ground water from wash water.
 - 9) Litter Management - Ensure employees properly dispose of litter.
 - 10) Dewatering - Properly treat water to remove suspended sediment before it re-enters a waterbody or discharges off-site. Measures are also to be taken to prevent scour erosion at dewatering discharge point.

3. APPROVED STATE OR LOCAL PLANS

During the course of this construction, it is possible that situations will arise where unknown materials will be encountered. When such situations are encountered, they will be handled according to all federal, state, and local regulations in effect at the time.

IV. MAINTENANCE PROCEDURES

The contractor is required to maintain all temporary erosion and sediment control measures in proper working order, including cleaning, repairing, or replacing them throughout the contract period. This shall begin when the features have lost 50% of their capacity.

V. INSPECTION REQUIREMENTS

- A. Inspections shall be made jointly by the contractor and the contracting authority at least once every seven calendar days. Storm water monitoring inspections will include:
 1. Date of the inspection.
 2. Summary of the scope of the inspection.
 3. Name and qualifications of the personnel making the inspection.
 4. Review erosion and sediment control measures within disturbed areas for the effectiveness in preventing impacts to receiving waters.
 5. Major observations related to the implementation of the PPP.
 6. Identify corrective actions required to maintain or modify erosion and sediment control measures.
- B. Include storm water monitoring inspection reports in the Amended PPP. Incorporate any additional erosion and sediment control measures determined as a result of the inspection. Immediately begin corrective actions on all deficiencies found within 3 calendar days of the inspection.

VI. NON-STORM WATER DISCHARGES

This includes subsurface drains (i.e. longitudinal and standard subdrains) and slope drains. The velocity of the discharge from these features may be controlled by the use of patio blocks, Class A stone, erosion stone or other appropriate materials. This also includes uncontainated groundwater from dewatering operations, which will be controlled as discussed in Section III of the PPP.

VII. POTENTIAL SOURCES OF OFF RIGHT-OF-WAY (ROW) POLLUTION

Silts, sediment, and other forms of pollution may be transported onto highway right-of-way (ROW) as a result of a storm event. Potential sources of pollution located outside highway ROW are beyond the control of this PPP. Pollution within highway ROW will be conveyed and controlled per this PPP.

VIII. DEFINITIONS

- A. Base PPP - Initial Pollution Prevention Plan.
- B. Amended PPP - May include Plan Revisions or Contract Modifications for new items, storm water monitoring inspection reports, and

ENGLISH	IOWA DOT	DESIGN TEAM	COUNTY	PROJECT NUMBER	SHEET NUMBER
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POLLUTION PREVENTION PLAN	110-12A 10-18-16
fieldbook entries made by the inspector. C. IDR - Inspector's Daily Report - this contains the inspector's daily diary and bid item postings. D. Controls - Methods, practices, or measures to minimize or prevent erosion, control sedimentation, control storm water, or minimize contaminants from other types of waste or materials. Also called Best Management Practices (BMPs). E. Signature Authority - Representative from Designer, Contractor/Subcontractor, or RCE/Inspector authorized to sign various storm water documents.	

CERTIFICATION STATEMENT I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	
Signature	
Printed or Typed Name	
Signature	
Printed or Typed Name	

DELIVERY AND STOCKPILING						110-13 04-20-10
Item Description	Quantity	Units	Delivery Location	Contact Name & Number	Remarks	

SANITARY OR STORM SEWER ABANDONMENT OR REMOVAL						110-14 04-16-13
* Not a bid item						
Location/Description	Sanitary or Storm Sewer	Abandonment, Plug Only or Abandonment, Plug and Fill or Removal	Length of Pipe		Fill Material*	Remarks
			≤ 36 inch diameter	> 36 inch diameter	Flowable Mortar or CLSM	
			LF	LF	CY	

REMOVAL OF INTAKES AND UTILITY ACCESSES				110-15 04-16-13
No.	Location/Description	Type	Remarks	

REMOVAL OF LIGHT POLES AND CONCRETE FOOTINGS						110-16 04-16-13
No.	Location		Removal of Light Pole	Removal of Concrete Footing for Light Pole	Remarks	
	Station	Offset				
		Left Right				

CLEARING AND GRUBBING														110-17 04-18-17								
Location		Work and Material Type	Trees, Stumps, and Logs and Down Timber Material Diameters											All Other Materials		Estimated Quantities			Remarks			
Station to Station or Ref. Loc. Sign to Ref. Loc. Sign or Description	Direction of Travel		3"-6"	>6"-9"	>9"-12"	>12"-15"	>15"-18"	>18"-24"	>24"-30"	>30"-36"	>36"-42"	>42"-48"	>48"-60"	>60"-72"	>72"	Length	Width	Units		Area	Herbicide Application	

ENGLISH	IOWA DOT	DESIGN TEAM	COUNTY	PROJECT NUMBER	SHEET NUMBER
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COORDINATED OPERATIONS

111-61
04-17-12

Other work in progress during the same period of time will include the construction of the projects listed. Coordinate operations with those of other contractors working within the same area.

Project	Type of Work

TABULATION OF REVISIONS

HI-2
02-28-01

TO:	DATE
FROM: Office of Design	COUNTY
LETTING DATE:	PROJECT NO.
	WORK CLASS
<small>Under separate cover we are forwarding to you prints of the following revised sheets with revisions as shown</small>	
Sheet No.	Revision Description

LISTING OF PROJECT REVISIONS

111-23
10-24-02

Date	Sheet No.	Description of Revisions

INDEX OF TABULATIONS

111-25
10-18-11

Tabulation	Tabulation Title	Sheet No.

112-3 04-16-13				
RAILROAD APPROACH SECTIONS				
Crossing		Pavement Type		
Location Station	Angle	HMA SY	PCC SY	Remarks

CURBS AND RAISED ISLANDS							112-4 10-21-14
Refer to PV-20, PV-102, and 6000s Detail Series.							
① Bid Item							
Point No.	Station	Offset	Island Interior Area (1) SY	Curb and Gutter Curb Type	Gutter Width FT	Length (1) LF	Remarks

CONCRETE MEDIANS						112-5 10-20-15
* Bid item						
Begin Station	End Station	Type	Area* SY	Modified Subbase CY	Special Backfill CY	Remarks

BRIDGE APPROACH SECTION															112-6 04-18-17			
Refer to the BR Series.																		
* Not a bid item																		
Bridge Station	Location		Approach Pavement				Standard Road Plans BR Series			Subdrain					Remarks			
	End	Skew Ahead	Ⓣ Thickness Inches	Pay Length FT	Non-Reinf. Pavement Area SY	Single-Reinf. Pavement Area SY	Double-Reinf. Pavement Area SY	Approach	Fixed or Movable Abutment	Abutting Pavement	Perforated Subdrain 4" LF	Subdrain Outlet STA	Porous Backfill CY	Class 'A' Crushed Stone Backfill CY		Modified Subbase TON	Polymer Grid SY	Special Backfill TON
	Degrees																	
LEFT		RIGHT																

112-7 10-19-10				
RUMBLE STRIP PANELS				
Refer to Standard Road Plan PV-10.				
Location		Pavement		
Road Ident.	Station	Side	New	Existing

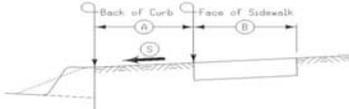
MEDIAN CROSSOVERS														112-8 04-15-14
Refer to PV-500 Series.														
* Not a bid item														
Road Ident.	Location Station	Standard Road Plan No.	Detour Pavement SY	Special Backfill TON	Granular Shoulder TON	Embankment in Place CY	Class 10 Excavation CY	Class 13 Excavation CY	Removal of Pavement SY	Saw Cut* LF	18" Unclassified Roadway Pipe LF	36" OMP Slotted Drain/ 6" Grate LF	Beveled Pipe and Guard No.	Remarks

SHOULDERS																		112-9 10-15-13				
① Lane(s) to which the shoulder is adjacent.																						
② Bid Item																						
③ Applies only for Paved Shoulders constructed on project with existing granular shoulders.																						
④ Does not include shrink.																						
Calculations assume a HMA unit weight (lbs/cf) of 0, a Special Backfill unit weight (lbs/cf) of 140, and a Granular Shoulder unit weight (lbs/cf) of 140.																						
Road Identification	Location		Direction Of Traffic	Station to Station	Side	Ⓟ Width FT	Ⓠ Width FT	Ⓡ Length FT	Class 13 Excavation CY ②	Quantities								Remarks				
	Hot Mix Asphalt									Binder TONS	Paved Shoulder SY ②	Reinforced Paved Shoulder SY ②	Special Backfill				Modified Subbase CY ②		Granular Shoulder		Earth Shoulder Construction Alternates	
	TON	TON/STA											HMA Alternate TON ②	PCC Alternate TON ②	TON/STA	TON ②			TON/STA	STA ②	HMA CY ④	PCC CY ④

MILLED RUMBLE STRIPS								112-10 04-19-11		
* Calculated at 18" width for Shoulder.										
Road Identification	Location		Length		Type (Centerline, Rt or Lt Shoulder)	Fog Seal* (Milled Rumble Strip) Shoulder GAL	Effective Shoulder Width			Remarks
	Station to Station	PCC STA	HMA STA	PCC Paved FT			HMA Paved FT	Granular\ Earth FT		

113-1
04-16-13

SIDEWALKS
See MI-220 and 5 Sheets



Road Identification	Station to Station	Side	(A)	(B)	(S)	4" PCC Sidewalk	6" PCC Sidewalk	8" PCC Sidewalk	Detectable Warnings	Remarks
			FT	FT	%	SY	SY	SY		

113-2
04-16-13

PEDESTRIAN PATH CLOSURES

Refer to TC-601.

*Assumes 6 foot wide barricade.
Closures may need to be removed and re-established.

Location	Side	Type III Barricades*	Remarks
		No.	

113-3
10-18-11

PEDESTRIAN CHANNELIZERS

Station to Station	Length	Remarks
	LF	

113-10
04-18-17

SIDEWALK COMPLIANCE

See 5 Sheets

- * Does not include curb
- (1) Staking required by Contracting Authority per Article 2511.03 of the Standard Specifications.
- (2) Refer to tabulation 113-01 for bid quantities.

Point to Point	Sidewalk Designation	8" PCC Sidewalk	Distance*	Δ Elevation	Slope	Acceptable Constructed Range	Staking Required on this Quadrant?	Measured Slope	Initials	Remarks	FOR INFORMATION ONLY: VALUES USED TO DETERMINE DESIGNED SLOPES								
			FT	FT	%	Pos. or Neg.	(1)	%			Point	Station	Offset	Elevation					

190-54
04-18-17

SIGNING MATERIALS FOR EXPRESSWAY AT-GRADE INTERSECTIONS

NO.	COUNTY	JURISDICTION	ROUTE 1	ROUTE 2	REFERENCE LOCATION SIGN	STATION	TYPICAL	SIGNS								TYPE	POSTS		PSST Post Anchor	SPECIAL MOUNTING BRACKETS	STOP ISLANDS PRESENT	REMARKS
								R1-1B	R1-2	R5-1A	R6-1A	R6-1C	R6-3B	R6-3C	OM-1		LENGTH					
																	28-FT	24-FT				

190-61
10-15-13

EXISTING SIGNS TO BE REINSTALLED

SIGN DESCRIPTION	DIRECTION OF TRAVEL	LOCATION STATION	NUMBER OF POSTS	SQUARE TUBE STEEL POSTS	WOOD POSTS		INSTALLATION		SEE SIGNING NOTES
					4" x 4" LF	4" x 6" LF	TYPE	DIM 'X'	

190-62
10-15-13

EXISTING SIGNS TO BE REMOVED

SIGN NUMBER OR DESCRIPTION	LOCATION STATION	DIRECTION OF TRAVEL	TYPE 'A' SIGN ASSEMBLY	TYPE 'B' SIGN ASSEMBLY	REMOVE & REINSTALL EXISTING SIGNS		CONCRETE FOUNDATION	SUPPORT STRUCTURE & FOUNDATION	APPLICABLE SIGNING NOTES	REMARKS
			(RA)	(RB)	(RR)	(RR)				
			EACH	EACH	EACH	EACH				

190-65
10-15-13

SPECIAL SIGN MOUNTING BRACKETS

BRACKET TYPE	QUANTITY
	EACH

190-66
10-21-14

SUMMARY OF TYPE 'A' SIGNS

Sign Number	Quantity EACH	Size IN	Total Sign Area SF

ENGLISH IOWA DOT DESIGN TEAM

COUNTY PROJECT NUMBER

SHEET NUMBER

192-1
04-18-17

MATERIALS FOR STEEL ROADSIDE DMS SIGN SUPPORT

DMS NUMBER/NAME	LOCATION				HORIZONTAL OFFSET TO CENTER OF POST	SKEW ANGLE DEGREES	OFFSETS TO NEAR CORNERS OF FOOTING		LENGTH OF POST FT	FOUNDATION QUANTITIES		
	ROUTE	STATION	REFERENCE LOCATION SIGN	DIRECTION OF TRAVEL			Y1	Y2		EXCAVATION (CLASS 20)	REINFORCING-EPOXY-COATED STEEL	STRUCTURAL CONCRETE
							FT	FT		CY	LB	CY