HMA Pavement - Grade and Pave

Letting Date: December 15, 2026

PROJECT NUMBER: FM-C007(183)--55-07

BLACK HAWK COUNTY

TRAFFIC CONTROL:
Dunkerton Road shall be CLOSED to traffic during construction.

Refer to traffic control plan on Sheet J.01.

STANDARDS

105_04
4/16/24

The following Standards apply to construction work on this project.

As outlined in Standards Tabulation 105_04 on Sheet C.05

DESIGN DATA RURAL

101-4
4/30/02

2021 AADT	860	V.P.D.
2051 AADT	1,049	V.P.D.
2051 DHV		V.P.D.
TRUCKS	10	%
Total		
Design ESALs	168,290	

IOWA DOT
HIGHWAY DIVISION

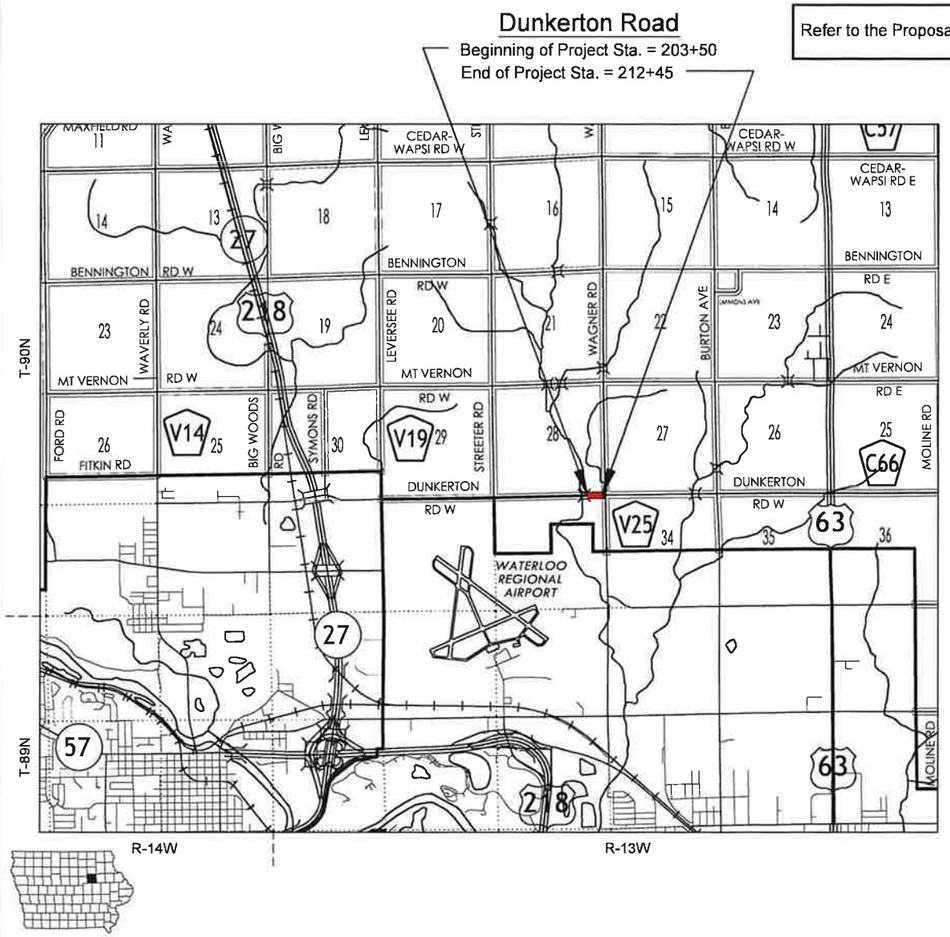
PLANS OF PROPOSED IMPROVEMENT ON THE

FARM TO MARKET SYSTEM
FM-C007(183)--55-07
BLACK HAWK COUNTY
Dunkerton Road
HMA Pavement - Grade and Pave

On Dunkerton Road (C66), from Wagner Road (V25) west 0.2 miles.

Scales: As Noted

Refer to the Proposal Form for list of applicable specifications.





IOWA ONE CALL
1-800-292-8989
www.iowaonecall.com
811

Approved by: Black Hawk County Board of Supervisors

Total Sheets: 9

INDEX OF SHEETS

105-3
10-18-05

Number	Description
A.01	Title Sheet
B.01	Typical Cross Section Details
C.01	Estimated Project Quantities & Est. Reference Notes
C.02	Estimate Reference Notes
C.03 - C.04	Tabulations
D.01	Plan and Profile Sheet
J.01	Traffic Control

MILEAGE SUMMARY

105-1
09-27-94

Div.	Location	Lin. Ft.	Miles
	203+50 to 212+45	895	0.17
	Project Total:	895	0.17

INDEX OF TABULATIONS

111_25
4/2/24

Line No.	Tabulation	Tabulation Title	Sheet No.
1	100_01A	Estimated Project Quantities	C.01
2	100_01D	Project Description	C.05
3	100_04A	Estimate Reference Information	C.01 - C.02
4	100-17	Tabulation of Silt Fences	C.03
5	101-4	Design Data Rural	A.01
6	102-5	Existing Pavement	C.03
7	105-1	Mileage Summary	A.01
8	105-3	Index of Sheets	A.01
9	105_04	Standard Road Plans	C.05
10	108-13A	Safety Closures	C.03
11	108-22	Pavement Marking Line Types	C.04
12	108_23A	Traffic Control Plan	J.01
13	110-1	Removal of Pavement	C.03
14	111_25	Index of Tabulations	A.01
15	112_07	Rumble Strip Panels	C.03
16	Bhhco-CoreOut	Core Out Areas	C.03
17	Bhco-GranShldr	Granular Shouldering	C.04
18	Bhco-HMA	H.M.A. Placement (Road Mainline)	C.04
19	Bhco-Utilities	Tabulation of Utilities	C.05

LICENSED PROFESSIONAL ENGINEER
CATHERINE FREET NICHOLAS
18815
IOWA

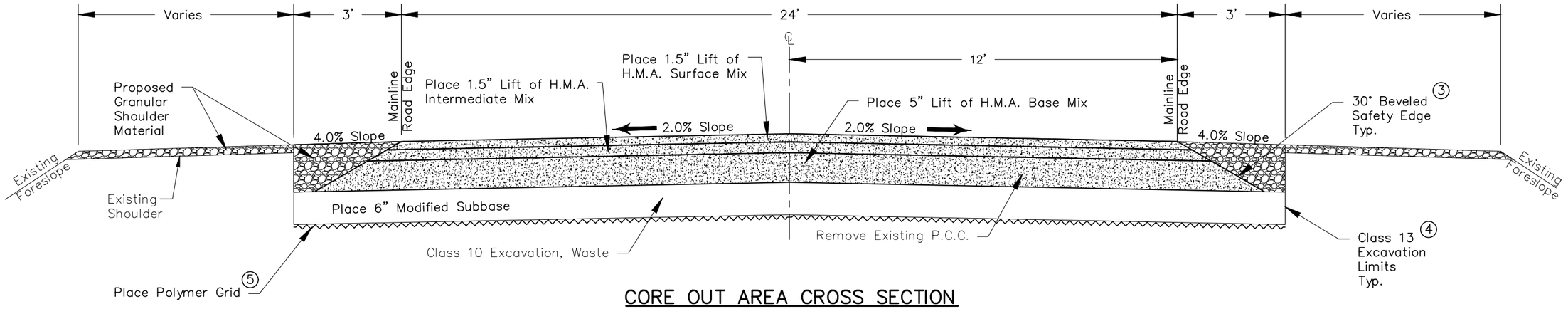
I hereby certify that this engineering document was prepared by me or under my direct personal supervision and that I am a duly licensed Professional Engineer under the laws of the State of Iowa.

Signature Date

CATHERINE FREET NICHOLAS, P.E. #18815
Printed or Typed Name
My license renewal date is December 31, 2027

Pages or sheets covered by this seal: **All sheets per index above.**

DESIGN TEAM:	DRAWING DATE:				
CN, CW, LD	2/26/2026	BLACK HAWK COUNTY	HMA Pavement – Grade and Pave	PROJECT NUMBER: FM–C007(183)––55–07	SHEET: A.01



CORE OUT AREA CROSS SECTION

(203+50 TO 212+45) =895' (0.17 Mile) Beginning of Project to End of Project

Existing 24' X 8" P.C.C. Pavement
(Remove Existing P.C.C. and Perform Class 13 Excavation, Waste. Place Polymer Grid, Modified Subbase, and then Base H.M.A., Intermediate H.M.A. and Surface H.M.A.

Notes:

① If Required, Cross Slope Change Shall Occur in the Class 13 Excavation. Modified Subbase Shall be a Uniform Minimum 6" Thickness.

② Tack Coat Estimated for 2 Applications. (Included with Appropriate H.M.A. Bid Item).
A Tack Coat of 0.05 Gallons per sq. yd. Preceding Each Lift of Hot Mix Asphalt (HMA) was Estimated.
This Coat Shall be Applied per Std. Spec. 2303.

③ A 30° Beveled Safety Edge Will be Incorporated into the H.M.A. Paving.
All Cost Associated with the Safety Edge Shall be Included with the Appropriate H.M.A. Bid Item.
Refer to General Specification 2305 and Standard Road Plan PV-3 for more Details.

④ Class 13 Excavation Shall be 3' Wider than Existing Pavement Edge. No Over-Excavation Will be Considered for Extra Pay.

⑤ Polymer Grid Shall be Placed After Existing Subgrade has been Graded and Compacted. Minimum of 2' Overlap of Grid Panel is Required. Contractor to Ensure Entire Core Out Area has Grid Under It.

Design Rates	
Item	Rate
H.M.A. Courses	145 lbs./cu. ft.
Asphalt Binder	6% by Weight
Tack Coat	Spec. 2303
Modified Subbase	140 lbs./cu. ft.

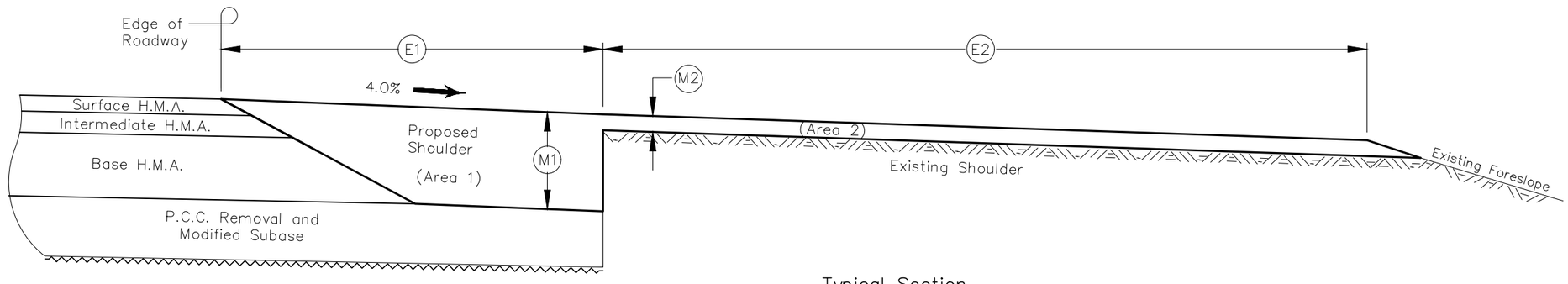
Note:
*The Base Course H.M.A. Centerline shall have a Tapered Slope (Michigan Wedge) Type Joint.

Existing 8" P.C.C. Pavement Shall be Removed, Class 10 Excavation Performed, Subgrade Graded and Prepared. Polymer Grid and 6" Modified Subbase Material Shall then be Placed. H.M.A. Placement to Follow as per Detail. Refer to Section 2102 of the Standard Specifications for Information about the Subgrade and Subbase Work.

Design Rates	
Item	Rate
Granular Shoulder	140 lbs./cu. ft.

Shoulder Area Figured with H.M.A. Safety Slope.

Refer to "Granular Shouldering" on Sheet C.04 for Stationing and Quantity Breakdowns.



Typical Section
Type 'B' Granular Shoulder
Core Out Section

Location			*Length	E1	E2	M1	M2	Side	Area 1	Area 2
Road Identification	Station to Station		ft.	ft.	ft.	in.	in.		sq. ft.	sq.ft.
Dunkerton Road	203+50	211+67	817	3	6	8.0	1.5	Both	1.51	0.76
Dunkerton Road	211+67	212+45	118	3	4	8.0	1.5	Both	1.51	0.51

*Extra Length Includes Radii at Wagner Intersection.

TYPICAL CROSS SECTION DETAILS

DESIGN TEAM: CN, CW, LD	DRAWING DATE: 2/26/2026	BLACK HAWK COUNTY	HMA Pavement – Grade and Pave	PROJECT NUMBER: FM-C007(183)--55-07	SHEET: B.01

ESTIMATED PROJECT QUANTITIES

100_01A
9/20/22

Line No.	Item No.	Item Code	Item	Unit	Total
1	1	2102-2713090	EXCAVATION, CLASS 13, WASTE	CY	690.61
2	2	2113-0001100	SUBGRADE STABILIZATION MATERIAL, POLYMER GRID	SY	3,275.29
3	3	2115-0100000	MODIFIED SUBBASE	CY	545.89
4	4	2121-7425020	GRANULAR SHOULDERS, TYPE B	TON	350.00
5	5	2303-1031500	HOT MIX ASPHALT STANDARD TRAFFIC, BASE COURSE, 1/2 IN. MIX	TON	850.00
6	6	2303-1032500	HOT MIX ASPHALT STANDARD TRAFFIC, INTERMEDIATE COURSE, 1/2 IN. MIX	TON	250.00
7	7	2303-1033500	HOT MIX ASPHALT STANDARD TRAFFIC, SURFACE COURSE, 1/2 IN. MIX, NO SPECIAL FRICTION REQUIREMENT	TON	250.00
8	8	2303-1258283	ASPHALT BINDER, PG 58-28S, STANDARD TRAFFIC	TON	81.00
9	9	2303-6911000	HOT MIX ASPHALT PAVEMENT SAMPLES	LS	1.00
10	10	2303-9091010	RUMBLE STRIP PANEL (HMA SURFACE)	EACH	2.00
11	11	2510-6745850	REMOVAL OF PAVEMENT	SY	2,624.10
12	12	2526-8285040	CONSTRUCTION SURVEY, LOCATION SURVEY	LS	1.00
13	13	2527-9263209	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED	STA	21.23
14	14	2528-2518000	SAFETY CLOSURE	EACH	2.00
15	15	2528-8445110	TRAFFIC CONTROL	LS	1.00
16	16	2533-4980005	MOBILIZATION	LS	1.00
17	17	2602-0000312	PERIMETER AND SLOPE SEDIMENT CONTROL DEVICE, 12 IN. DIA.	LF	100.00
18	18	2602-0000351	REMOVAL OF PERIMETER AND SLOPE OR DITCH CHECK SEDIMENT CONTROL DEVICE	LF	100.00

ESTIMATE REFERENCE INFORMATION

100-4A
10-29-02

ITEM NO.	ITEM CODE	DESCRIPTION
1	2102-2713090	**Excavation, Class 13, Waste** This item includes all the material to be removed from the P.C.C. removal core out locations. All class 13 waste excavation areas shall be excavated 3' wider than the proposed paving to ensure room for the pavement safety edge. Refer to Sheets B.01 for typical detail and the "Core Out Areas" Tabulation on Sheet C.03 regarding this item. All excavated material shall become the property of the Contractor and shall be removed from the site.

ESTIMATE REFERENCE INFORMATION

100-4A
10-29-02

ITEM NO.	ITEM CODE	DESCRIPTION
2	2113-0001100	**Subgrade Stabilization Material, Polymer Grid** This item shall be placed under all newly constructed mainline roadway, including out to the class 13 excavation limits. Polymer grid shall be placed after existing pavement has been removed and the subgrade has been prepared according to the modified subbase specification 2115. No additional payment will be made for any required grading or compaction of the existing subgrade. A minimum of 2' overlap of grid panel is required. The Contractor shall ensure the entire area cored out has grid under it, including radii. Refer to Sheets B.01 for typical detail and the "Core Out Areas" Tabulation on Sheet C.03 regarding this item. The proposed polymer grid shall meet the requirements of Type 4 Geogrid per the following table referenced from the SUDAS Standard Specifications: **b. Triangular:** Use punched and drawn polypropylene that is oriented in three substantially equilateral directions. Meet the following minimum physical properties: **Table 2010.03: Geogrid (Triangular)** **Property** / **Test Method** / **Units** / **Type 3** / **Type 4** Aperture stability modulus at 5 kg-cm / Kinney[1] - 01 / kg-cm/deg / 3.0 / 3.6 Resistance to loss of load capacity Chemical resistance / EPA 9090 Immersion / % / 90-100 / 90-100 Ultra-violet light and weathering (500 hrs) / ASTM D 4355 Junction efficiency / GRI-GG2-87 GRI-GG1-87 / % of ultimate tensile strength / 93 / 93 Radial stiffness / ASTM D 6637 / lb/ft @ 0.5% strain / 15,000 / 20,000 Rib Patch Longitudinal / N/A / in. / 1.5-1.75 / 1.5-1.75 Diagonal Mid-rib depth / N/A / in. / 0.04-0.06 / 0.05-0.08 Mid-rib width / N/A / in. / 0.035-0.05 / 0.035-0.055 [1] Dr. Thomas C. Kinney, P.E. and US Army Corps of Engineers.
3	2115-0100000	**Modified Subbase** This item pertains to all the material placed at the P.C.C. removal core out locations. All requirements of Specification 2115 pertain to this bid item. Material shall meet the requirements of the Standard Specification Section 4123, EXCEPT recycled pavements and blended combinations with RAP will NOT be allowed as Modified Subbase on this project. Refer to Sheets B.01 for typical detail and the "Core Out Areas" Tabulation on Sheet C.03 regarding this item.
4	2121-7425020	**Granular Shoulders, Type B** Bid price to include furnishing and delivery of material; and also includes placing, rolling, final finishing of the shoulder and brooming of the finished paved roadway. Refer to Sheet B.01 for typical details. Also refer to the "Granular Shouldering" Tabulation on Sheet C.04 for locations and quantity breakdowns. Material density of 140 pcf was used to calculate tonnage. Estimated project quantity includes an additional 10% for any cross section irregularities along the project. This 10% is not an assured amount and will only be used if necessary. Engineering staff will be present in the field at time of placement and determine if any irregularities exist and if any additional tonnage is required during placement.

ESTIMATED PROJECT QUANTITIES

ESTIMATE REFERENCE INFORMATION

100–4A
10–29–02

ITEM NO.	ITEM CODE	DESCRIPTION
5 6 7 8	2303–1031500 2303–1032500 2303–1033500 2303–1258283	HMA Standard Traffic, Base Course, 1/2 inch Mix HMA Standard Traffic, Intermediate Course, 1/2 inch Mix HMA Standard Traffic, Surface Course, 1/2 inch Mix, No Friction Asphalt Binder, PG 58–28S, Standard Traffic PWL (Percent Within Limits) wil not be required on this project due to the small quantities. Design weight of 145 lbs. per cu. ft. Estimated project quantity includes an additional 10% for any cross section irregularities along the project. This 10% is not an assured amount and will only be used if necessary. Engineering staff will be present in the field at time of placement and determine if any irregularities exist and if any additional tonnage is required during placement. Refer to Sheets B.01 for typical cross sections and full depth core out details. Refer to "HMA Placement (Road Mainline)" Tabulation on Sheet C.04 for mainline locations and breakdowns. Bid price shall include full Quality Control, Quality Assurance, and Plant Inspection for all H.M.A. mix. All cost associated with the testing and inspection of the H.M.A. is to be considered included in accordance with the current Iowa DOT Standard Specifications. Material for drives & intersections were estimated as follows: Field Entrances: Field entrance fillets will not be required on this project Side Roads: No side road intersections on this project. Also note that no mailbox fillets will be required on this project. All Asphalt Cement shall be PG 58–28S. Quantities based on 6% by weight.
10	2303–9091010	Rumble Strip Panel (HMA Surface) Cut rumble strip panels in new pavement per Standard Road Plan PV–10 at existing locations. Refer to "Rumble Strip Panels" Tabulation on Sheet C.03 for location and quantity breakdowns. The Engineer will count each rumble strip panel cut in the new pavement. Payment will be the contract unit price for each rumble strip panel cut.
11	2510–6745850	Removal of Pavement Item includes removal of the existing P.C.C. roadway. Refer to Sheet D.01 for location. Also refer to "Removal of Pavement" Tabulation on Sheet C.03 for details and stationing. The Contractor shall saw cut pavement as denoted in above mentioned tabulation prior to removal. Saw cuts are to be included with the Removal of Pavement bid item. Removed pavement shall be removed from the site and become the property of the Contractor.
12	2526–8285040	Construction Survey, Location Survey The Contractor is to perform all construction survey and provide all construction staking on the project.

ESTIMATE REFERENCE INFORMATION

100–4A
10–29–02

ITEM NO.	ITEM CODE	DESCRIPTION
13	2527–9263209	Painted Pavement Marking, Waterborne or Solvent–Based Field verify. Locations and quantities are estimated. Actual locations are to be determined and provided by the Engineering staff during construction observation. Actual lengths will be field measured by the Engineering staff once the pavement markings have been placed. A two gun system following the current Standard Specifications and Standard Road Plans shall be used on all pavement markings. Edge line pavement markings shall be placed at an 11' 5" offset from the centerline of road to the inside edge of the proposed pavement marking. Refer to "Pavement Marking Line Types" Tabulation on Sheet C.04 for location and quantity breakdowns. All pavement markings shall be 4" wide. The Contractor shall note pavement markings are based on a 6" wide pavement marking per Iowa DOT specification. Meaning a factor of 1 equals a 6" pavement marking. Plan quantities were adjusted using a quantity factor from the 6" marking to a 4" marking. Factors are shown in the above mentioned tabulation.
14	2528–2518000	Safety Closure Refer to Standard Road Plan TC–252, Situation 1 (Rural) for details and "Safety Closures" Tabulation on Sheet C.03 for locations of required road closures. No portable dynamic message sign will be required on this project. Road closure shall be used for the entire duration of the project.
15	2528–8445110	Traffic Control Traffic Control shall also include all provisions for work under the Traffic Control Plan on Sheet J.01. A marked detour shall be established, maintained and removed by Black Hawk County. A minimum of 10 days notice shall be given to the County prior to the start of the project, any required changes to the detour, and/or the completion of the project in order to allow the County to schedule the required signage work.
16	2533–4980005	Mobilization Bid Item includes requirements under Iowa DOT Developmental Specification for Construction Progress Schedule work.
17 18	2602–0000312 2602–0000351	Perimeter and Slope Sediment Control Device, 12 Inch Diameter Removal of Perimeter and Slope or Ditch Check Sediment Control Device Items are included for temporary perimeter sediment control and water velocity reduction on slopes and ditches. Verify locations with the Engineer prior to placement. Depending on the work schedule, construction process used, and weather conditions during construction, this work may not be required on the project. Refer to the "Perimeter and Slope Sediment Control Device" Tabulation on Sheet C.03 for estimated locations and quantities. Refer to Standard Road Plan EC–204 for details. Measurement and payment of erosion control item is per lineal foot and full compensation shall be for furnishing, installing, and removal of item.

ESTIMATE REFERENCE NOTES

102_05
09/29/23

EXISTING PAVEMENT

Line No.	County	Route	Direction of Travel	Begin Ref. Location Sign	End Ref. Location Sign	Year	Type	Project Number	Surface Type	Surface Depth (IN)	Base Type	Base Depth (IN)	Subbase Type	Subbase Depth (IN)	Removal Type	Removal Depth (IN)	Coarse Aggregate Source	Coarse Aggregate Type	Coarse Aggregate Durability Class	Reinforcement Type	Remarks
	Black Hawk	C66	WB / EB			1992		FM-07(18)--55-07	PCC Class B	8.0									II or III		

110_01
4/5/24

REMOVAL OF PAVEMENT

Refer to Tabulation 102-5.

* Not a Bid Item.

Line No.	Station From	Station To	Length (FT)	Width (FT)	Side	Pavement Type	Area* (SF)	Area (SY)	Saw Cut* (LF)	Remarks
	203+50	212+45	895.0	24.0	Both	P.C.C.	21,480.0	2,386.7	48.0	Mainline at 24' width.
	211+67	212+45			Rt.	Composite	1,060.2	117.8	74.8	Intersection radius from end of mainline to end of radius.
	211+67	212+45			Lt.	Composite	1,076.6	119.6	75.6	Intersection radius from end of mainline to end of radius.
						Total:	23,616.8	2,624.1	198.4	

Bhco-CoreOut
12/12/24

CORE OUT AREAS

Station From	Station To	Side	Length (LF)	Thickness (IN)	Width (LF)	Area (SF)	Polymer Grid (SY)	Class 13 Waste (CY)	Modified Subbase (CY)	Remarks
203+50	212+45	Both	895	6	24	21,480.00	2,386.67	397.78	397.78	Mainline Under Existing Pavement
211+67	212+45	Lt.		6	Varied	1,076.56	119.62	19.94	19.94	Radius Under Existing Pavement
211+67	212+45	Rt.		6	Varied	1,060.20	117.80	19.63	19.63	Radius Under Existing Pavement
203+50	211+67	Lt.	817	14	3	2,451.00	272.33	105.91	45.39	3' Excavation Limits from Edge of Pavement
203+50	211+67	Rt.	817	14	3	2,451.00	272.33	105.91	45.39	3' Excavation Limits from Edge of Pavement
211+67	212+45	Lt.		14	Varied	464.38	51.60	20.07	8.60	3' Excavation Limits from Edge of Pavement (Includes Area Between Existing Roadway Edge and Proposed Roadway Edge)
211+67	212+45	Rt.		14	Varied	494.50	54.94	21.37	9.16	3' Excavation Limits from Edge of Pavement (Includes Area Between Existing Roadway Edge and Proposed Roadway Edge)
				Mainline Total:		29,477.64	3,275.29	690.61	545.89	

112_07
8/15/22

RUMBLE STRIP PANELS

Refer to Standard Road Plan PV-10.

Line No.	Roadway Identification	Station	Side	Pavement Type	Remarks
	Dunkerton Road	205+99	Rt.	H.M.A.	Place back at existing rumble strip location.
	Dunkerton Road	208+97	Rt.	H.M.A.	Place back at existing rumble strip location.

108_13A
10/4/23

SAFETY CLOSURES

Refer to Section 2518 of the Standard Specifications

Station	Road Closure Qty.	Hazard Closure Qty.	Remarks
201+00	1		Beginning of Project
212+45	1		End of Project
Total:	2		

100_19
10/15/24

PERIMETER AND SLOPE SEDIMENT CONTROL DEVICE

Possible Standards: EC-204

Line No.	Station From	Station To	Side	Sediment Control Device Type	Diameter Size	Length (LF)	Remarks
	204+00		Rt.	Wattle	12"	25.0	Placed if / when required by the Engineer.
	204+00		Lt.	Wattle	12"	25.0	Placed if / when required by the Engineer.
	211+00		Rt.	Wattle	12"	25.0	Placed if / when required by the Engineer.
	211+00		Lt.	Wattle	12"	25.0	Placed if / when required by the Engineer.
						100.0	

TABULATIONS

Bhco-HMA
4/1/22

HMA PLACEMENT (ROAD MAINLINE)

Line No.	Station From	Station To	Side	Length (LF)	Average Thickness (IN)	Lane Top Width (LF)	Average Lane Width (Yield Width)	Area per Lane Width (SF)	Area (SF)	HMA (TON/STA/SIDE)	HMA (TON)	Remarks
	Base Course											
	203+50	212+45	Rt.	895	5	12.45	12.82	5.34		38.72	346.54	Mainline (beginning of project to end of project).
	203+50	212+45	Lt.	895	5	12.45	12.82	5.34		38.72	346.54	Mainline (beginning of project to end of project).
	211+67	212+45	Rt.		5				1126		34.01	South radius at Wagner Road intersection.
	211+67	212+45	Lt.		5				1169		35.31	North radius at Wagner Road intersection.
										Base Total:	762.40	@ 100 %
	Intermediate Course											
	203+50	212+45	Rt.	895	1.5	12.22	12.34	1.54		11.17	99.97	Mainline (beginning of project to end of project).
	203+50	212+45	Lt.	895	1.5	12.22	12.34	1.54		11.17	99.97	Mainline (beginning of project to end of project).
	211+67	212+45	Rt.		1.5				1126		10.20	South radius at Wagner Road intersection.
	211+67	212+45	Lt.		1.5				1169		10.59	North radius at Wagner Road intersection.
										Intermediate Total:	220.73	@ 100%
	Surface Course											
	203+50	212+45	Rt.	895	1.5	12	12.11	1.51		10.95	98.00	Mainline (beginning of project to end of project).
	203+50	212+45	Lt.	895	1.5	12	12.11	1.51		10.95	98.00	Mainline (beginning of project to end of project).
	211+67	212+45	Rt.		1.5				1126		10.20	South radius at Wagner Road intersection.
	211+67	212+45	Lt.		1.5				1169		10.59	North radius at Wagner Road intersection.
										Surface Total:	216.79	@ 100%
										Project Total:	1,199.92	@ 100%

108_22
10/21/25

PAVEMENT MARKING LINE TYPES

Line factors based on 6 inch wide continuous line.
*BCY4 - Place on the same side of the roadway to match existing markings near the project.
**NPY4 - For estimating purposes only. No Passing Zone Lines will be located in the field.

BCY4: Broken Centerline (Yellow) @ 0.17
DCY4: Double Centerline (Yellow) @ 1.34
NPY4: No Passing Zone Line (Yellow) @ 0.84
ELW4: Edge Line Right (White) @ 0.67
SLW2: Stop Line (White) @ 4.00

Line No.	Road ID	Station From	Station To	Lane	Marking Type	Left	Center	Right	Groove Marking Needed?	Groove Qty. (STA)	BCY4* Factored (STA)	DCY4 Factored (STA)	NPY4** Factored (STA)	ELW4 Factored (STA)	SLW2 Factored (STA)		Remarks
	Dunkerton Road	202+80	205+91	BOTH			X		No		0.53						
	Dunkerton Road	205+91	212+31	BOTH			X		No				5.38				
	Dunkerton Road	202+80	212+45	EB				X	No					7.14			Additional 100' for radius.
	Dunkerton Road	202+80	212+45	WB		X			No					7.14			Additional 100' for radius.
	Dunkerton Road	212+31		EB				X	No						1.04		26' stop bar.
									Totals:		0.53		5.38	14.28	1.04		

Plan Temporary Paint Total: **Stations** **Plan Permanent Paint Total:** **21.23** **Stations** **Plan Total Paint:** **21.23** **Stations**

Bhco-GranShldr
11/21/24

GRANULAR SHOULDERING

Line No.	Station From	Station To	Side	Length (LF)	Average Thickness (IN)	Width (LF)	Area (SF)	Granular Shoulder Material (TON/STA/SIDE)	Granular Shoulder Material (TON)	Remarks
Area 1										
	203+50	211+67	Rt.	817	8.00	3	2,451.00	10.57	86.36	From beginning of project to beginning of radius.
	203+50	211+67	Lt.	817	8.00	3	2,451.00	10.57	86.36	From beginning of project to beginning of radius.
	211+67	212+45	Rt.	118	8.00	3	354.00	10.57	12.47	40' extra length added for radius at Wagner Road intersection.
	211+67	212+45	Lt.	118	8.00	3	354.00	10.57	12.47	40' extra length added for radius at Wagner Road intersection.
Area 2	203+50	211+67	Rt.	817	1.50	6	4,902.00	5.32	43.46	From beginning of project to beginning of radius.
	203+50	211+67	Lt.	817	1.50	6	4,902.00	5.32	43.46	From beginning of project to beginning of radius.
	211+67	212+45	Rt.	118	1.50	4	472.00	3.57	4.21	40' extra length added for radius at Wagner Road intersection.
	211+67	212+45	Lt.	118	1.50	4	472.00	3.57	4.21	40' extra length added for radius at Wagner Road intersection.
								Total:	293.00	@ 100%

TABULATIONS

100_01D
8/15/22

PROJECT DESCRIPTION

This construction project is located on Dunkerton Road (C66), from the Wagner Road intersection west approximately 895 feet.

This project includes the removal of the existing 8" concrete pavement, class 10 excavaton, placement of polymer grid and modified subbase. Followed by H.M.A. resurfacing with a 5" base lift of H.M.A., 1.5" intermediate lift of H.M.A., and a 2" surface lift of H.M.A., granular shouldering and pavement markings.

The project shall be CLOSED to through traffic during the construction and shall be detoured during the entire project.

Refer to Sheet J.01 for the traffic control plan.

No storm water permit 404 or Iowa DNR floodplain construction permit is required.

Section number references within these plans refer to the Iowa D.O.T. Standard Specifications for Highway and Bridge Construction, Series 2023.

105_04
10/20/26

STANDARDS

The following Standards apply to construction work on this project.

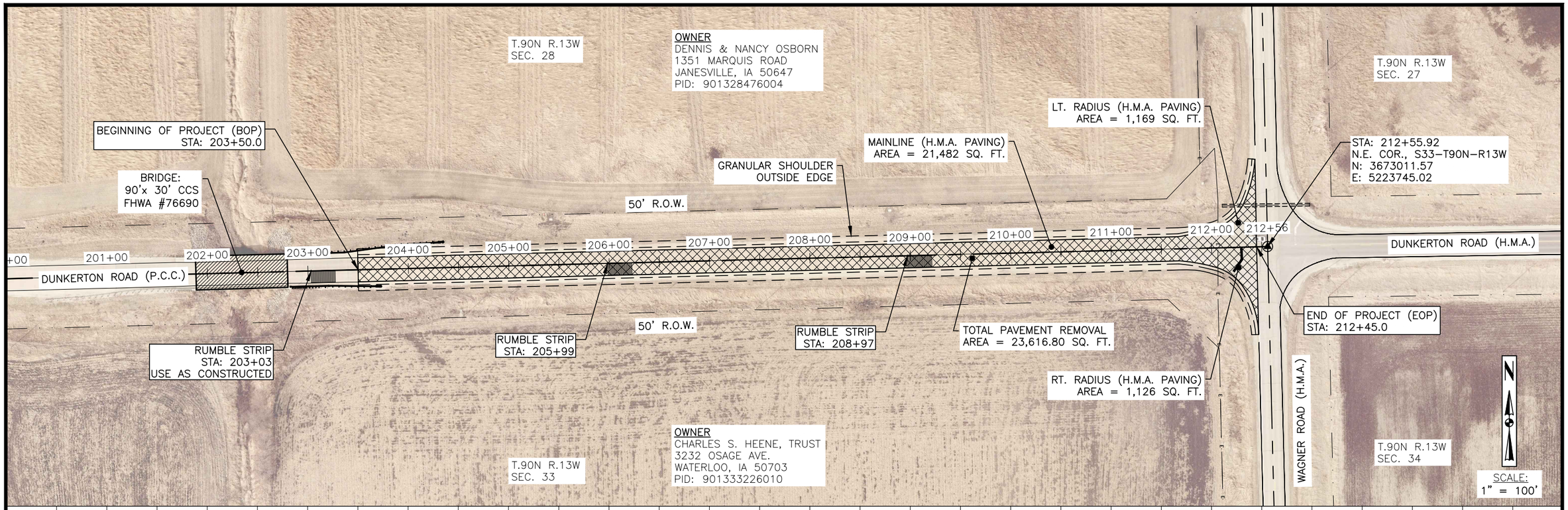
Number	Date	Title
EC-204	10-19-21	Perimeter and Slope Sediment Control Devices
PM-110	10-15-24	Line Types
PM-120	10-15-24	Stop Lines and Islands
PM-420	10-20-26	Two-Lane Roadway with No Turn Lanes (One-Way Stop Condition)
PV-3	10-15-24	Safety Edge
PV-10	10-20-26	Rumble Strip Panel for Intersection Approach
SI-881	10-20-26	Special Signs for Workzones
TC-252	10-20-26	Routes Closed to Traffic

Bhco-Utilities
3/31/22

TABULATION OF UTILITIES

Company	Contact Person	Contact Number	
Iowa One-Call		1-800-292-8989	
(CF8) Cedar Falls Utilities	Garrett Ramthun	1-319-268-5375	garrett.ramthun@cfunet.net
(CTLIA01) CenturyLink	Sadie Hull	1-918-547-0147	sadie.hull@lumen.com
(M58G) MidAmerican-Gas	Jordyn Weber	1-319-291-4728	jlweber@midamerican.com
(WTU) Waterloo Fiber	IAN Crowther-Green	1-319-291-0175	ian.crowther-green@waterloofiber.com
(WWW) Waterloo Water Works	Chad Coon	1-232-628-5013	Chad.Coon@waterloo-ia.org

GENERAL NOTES, STANDARD ROAD PLANS & UTILITY NOTES



DESIGN TEAM: CN, CW, LD	DRAWING DATE: 4/15/2025	BLACK HAWK COUNTY	HMA Pavement – Grade and Pave	PROJECT NUMBER: FM-C007(183)--55-07	SHEET: D.01

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Traffic Control Plan

108–23A
08–01–08

Traffic control devices, procedures, layouts, signing, and pavement markings installed within the limits of this project shall conform to the Manual on Uniform Traffic Control Devices for Streets and Highways, as adopted by the Department per 761 of the Iowa Administrative Code (IAC), Chapter 130.

Traffic Control on this project shall be in accordance with Standard Road Plans. For additional information, refer to the current Standard Specifications for Traffic Control.

This project shall be CLOSED to thru traffic during all phases of construction. The Contractor is responsible for all traffic control in accordance with Road Standard TC–252, Situation 1 (Rural), and any general notes that apply. No portable dynamic message sign will be required on this project.

A marked detour shall be established, maintained and removed by Black Hawk County. A minimum of 10 days notice shall be given to the County prior to the start of the project, any required changes to the detour, and/or the completion of the project in order to allow the County to schedule the required signage work. Refer to map on this sheet for the proposed detour route.

The Contractor shall also be required to provide any applicable Special Signs for Work Zones as part of Standard Road Plan SI–881 at all access points for this project.

As directed by the Engineer, the Contractor shall cover all signing that is not in use.

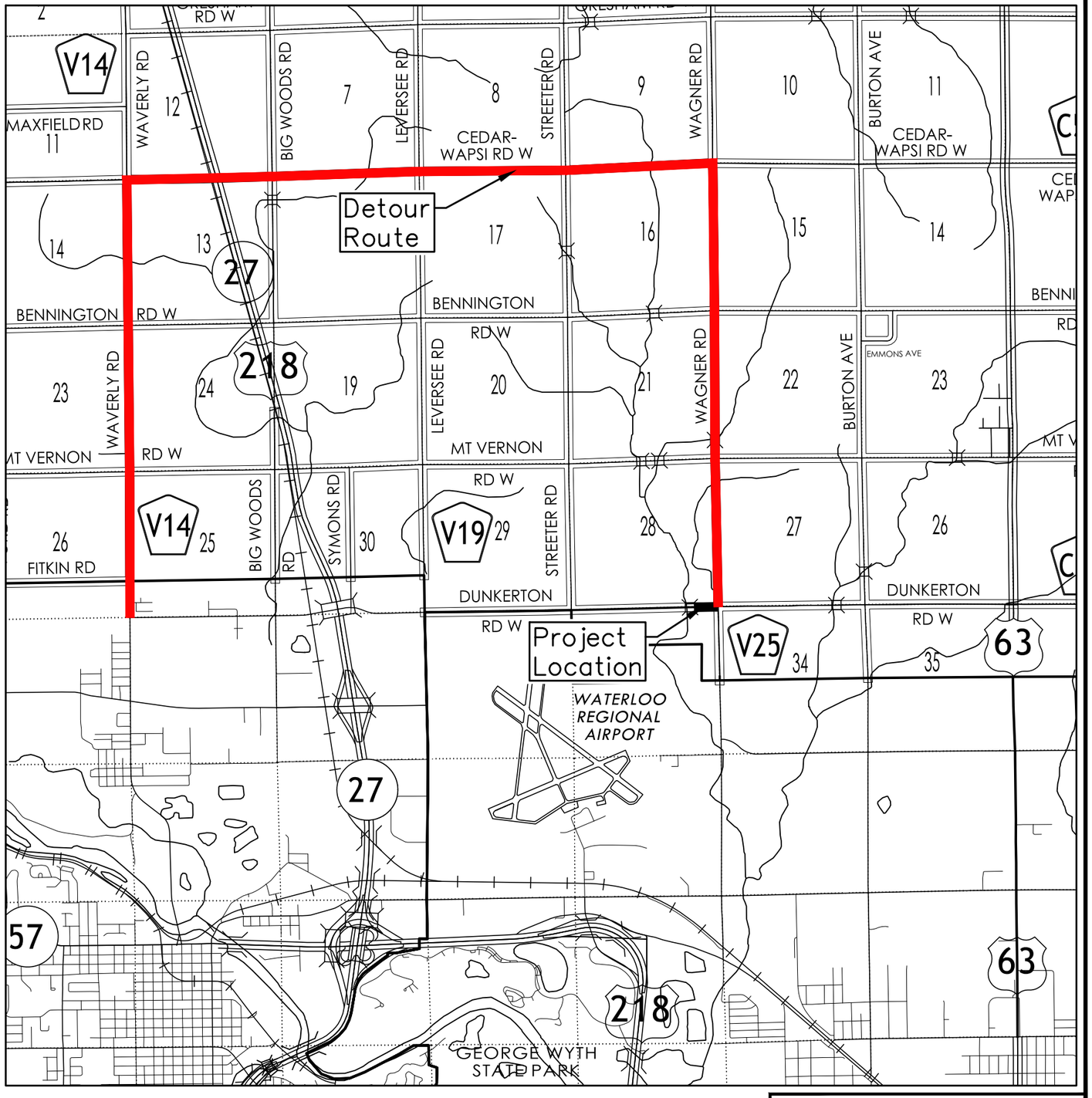
Contractor shall be responsible for all installation, preservation, maintenance, and removal of necessary safety devices per these plans.

Proposed sign spacing may be modified as approved by the Engineer, to meet existing field restrictions or to prevent obstruction of the motorist's view of permanent signing.

Proposed changes in the traffic control plan, (Including layout sheets) shall be reviewed with the County Engineer before changes are made.

A written traffic control proposal shall be submitted to the Engineer in order to coordinate construction. All proposal(s) shall be submitted to the Engineer in order to coordinate construction. This proposal will be due on or before the pre–construction meeting.

The Prime Contractor shall be responsible for the daily traffic control diary and have the appropriate certified staff to accomplish monitoring the traffic control.



TRAFFIC CONTROL PLAN & DETOUR ROUTE

DESIGN TEAM: CN, CW, LD	DRAWING DATE: 4/16/2025	BLACK HAWK COUNTY	HMA Pavement – Grade and Pave	PROJECT NUMBER: FM–C007(183)––55–07	SHEET: J.01

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