

TRAFFIC CONTROL:
All routes shall be OPEN to traffic during construction.
Refer to traffic control bid item reference note on Sheet C.01.



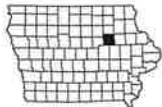
PLANS OF PROPOSED IMPROVEMENT ON THE
**FARM TO MARKET SYSTEM
FM-C007(182)--55-07
BLACK HAWK COUNTY
HMA Crack Filling**

Various Routes in Black Hawk County. Refer to Sheet A.02 for Detail Map.

Scales: As Noted

Refer to the Proposal Form for list of applicable specifications.

STANDARD ROAD PLANS		
The following Standards apply to construction work on this project.		
Number	Date	Title
SI-881	04-16-19	Special Signs for Workzones.
TC-212	04-18-23	Spot Location Lane Closure with Flaggers.
TC-213	04-18-23	Lane Closure with Flaggers.
TC-214	04-18-23	Lane Closure with Flaggers for Use with Pilot Car.
TC-231	04-18-23	Slow Moving Vehicle Operating in the Travel Lane.



Refer to Sheet A.02 for
Location Map.

Approved by: Black Hawk County Board of Supervisors

105-3
10-18-05

INDEX OF SHEETS

Number	Description
A.01	Title Sheet
A.02	Location Map and Estimated Quantities
C.01	Estimate Reference Quantities and Notes

105-1
09-27-94

MILEAGE SUMMARY

No.	Location	Est. Gallon	Miles
1	Union Rd 1 Cedar Falls City Limits to Cedar Wapsi Rd	800	4.00
2	Union Rd 2 Cedar Wapsi Rd to Winslow Rd	200	1.00
3	Cedar-Wapsi Rd 3 Big Woods Rd to Hwy. 63	1,275	5.10
4	Washburn Rd 1 Hwy 21 / Hawkeye Rd to Dysart Rd	240	2.40
5	Washburn Rd 2 Dysart Rd to Hwy 218 / La Porte Rd	140	1.40
6	Dysart Rd 1 Benton/Tama County Line to Tama Rd	250	1.00
7	Dysart Rd 2 Tama Rd to Eagle Rd	500	2.00
Project Total:		3,405	16.90

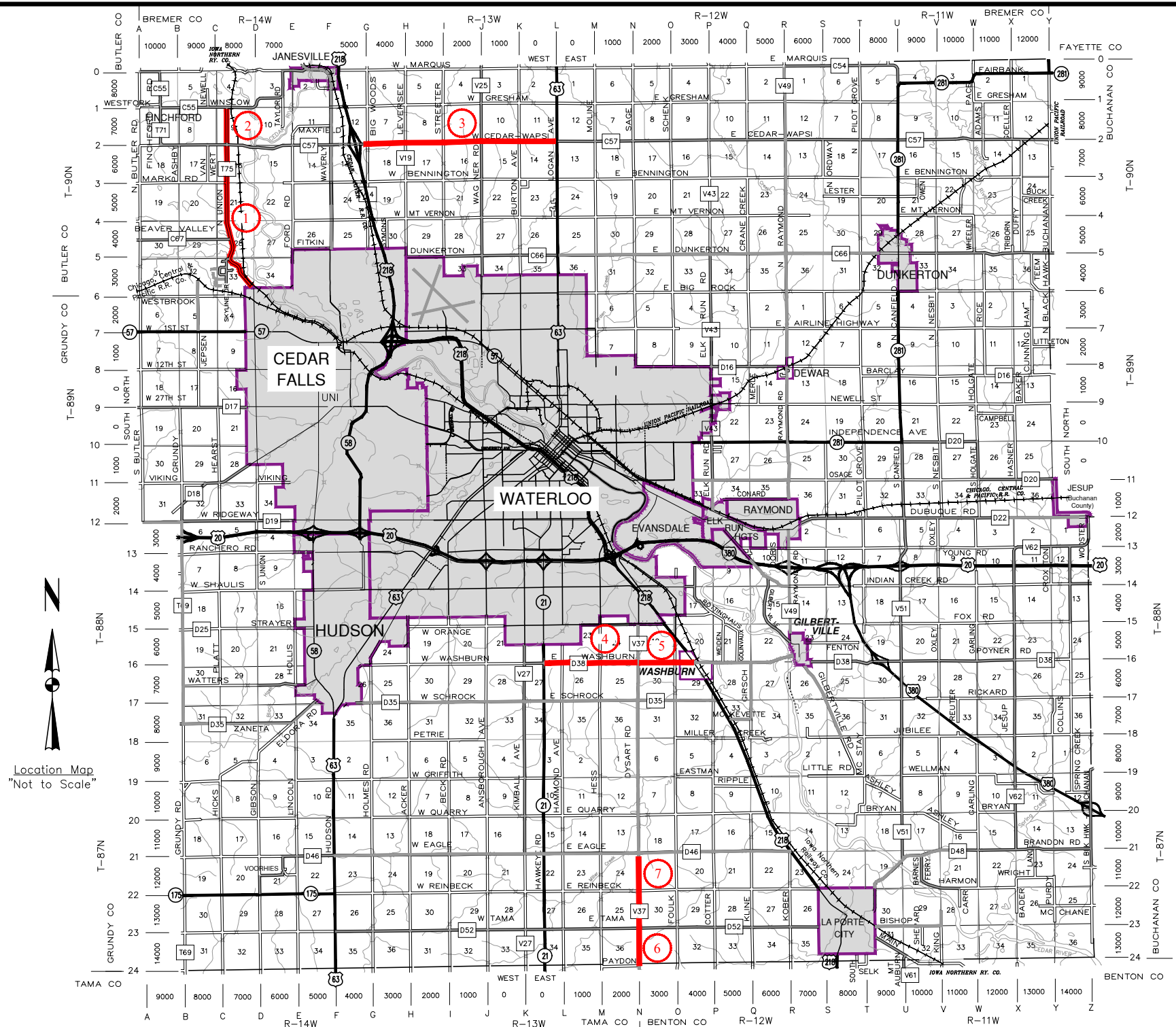
111-25
10-18-11

INDEX OF TABULATIONS

Tabulation	Tabulation Title	Sheet No.
100-1A	Estimated Project Quantities	C.01
100-4A	Estimate Reference Information	C.01
105-1	Mileage Summary	A.01
105-3	Index of Sheets	A.01
105-4	Standard Road Plans	A.01
Bhco-CrackFill	Crack Filling Estimates	A.02

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: CATHERINE FREET NICHOLAS, P.E. #18815 Date: 8-3-26
Printed or Typed Name: My license renewal date is December 31, 2027
Pages or sheets covered by this seal: All sheets per index above.



CRACK FILLING ESTIMATES

Bhco-CrackFill
3/26/25

Line No.	Seal #	Road Name	Location		2021 ADTT	Total Roadway Length (MILE)	Total Shoulder Length (MILE)	Estimated Filler Material	As-Built Filler Material	Notes
	1	Union Rd 1	Cedar Falls City Limits	to	Cedar Wapsi Rd	2,140	4.0	800		11' Lane
	2	Union Rd 2	Cedar Wapsi Rd	to	Winslow Rd	700	1.0	200		11' Lane
	3	Cedar-Wapsi Rd 3	Big Woods Rd	to	Hwy. 63	4,140	5.1	1,275		13' Lane
	4	Washburn Rd 1	Hwy 21 / Hawkeye Rd	to	Dysart Rd	680	2.4	240		12' Lane
	5	Washburn Rd 2	Dysart Rd	to	Hwy 218 / La Porte Rd	560	1.4	140		12' Lane
	6	Dysart Rd 1	Benton/Tama County Line	to	Tama Rd	1,370	1.0	250		11' Lane
	7	Dysart Rd 2	Tama Rd	to	Eagle Rd	1,270	2.0	500		11' Lane
Total:						16.9		3,405		

ESTIMATED PROJECT QUANTITIES						100 01A 9/20/22
Line No.	Item No.	Item Code	Item	Unit	Total	As Built Qty.
	1	2528-8445110	TRAFFIC CONTROL	LS	1.00	
	2	2528-8445113	FLAGGER	EACH	Per Proposal	
	3	2528-8445115	PILOT CAR	EACH	Per Proposal	
	4	2533-4980005	MOBILIZATION	LS	1.00	
	5	2544-1001100	CLEAN+FILL CRACK (PAV'T MAINT)	MILE	16.90	
	6	2544-1003000	FILLER MAT'L (MAINT)	GAL	3,405.00	

ESTIMATE REFERENCE INFORMATION				100_04A 6/2/23
LINE NO.	ITEM NO.	ITEM CODE	DESCRIPTION	
	1.	2528-8445110	Traffic Control 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 OPEN to thru traffic during all phases of construction. The Contractor shall maintain access to the project at all times. 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. Storage of equipment by the Contractor during non-working hours will not be allowed within the R.O.W. limits. If Contractor needs to have equipment parked on site, it is their responsibility to find an area away from the traveled portion of the roadway. ALL refueling, refilling, resupplying, etc. of equipment will be done away from the open lane of traffic in order to maintain a clear path at all times for the traveling public. No equipment shall block the open lane of traffic for an extended period of time during the project. If blocking the road during any of these operations can not be avoided, the Contractor shall work quickly and efficiently to minimize the delay as much as possible. The 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 at least 2 weeks prior to the Contractor starting work. The Contractor shall be responsible for the daily traffic control diary and have the appropriate certified staff (per requirements denoted in Iowa DOT Standard Specification Section 2528) to accomplish monitoring the traffic control. After the project is complete, or when directed by the Engineer, the diaries shall be submitted to the County Engineer. The Contractor shall coordinate/communicate all crack filling schedules with property owners to ensure everyone affected is aware of the proposed work.	

ESTIMATE REFERENCE INFORMATION				100_04A 6/2/23
LINE NO.	ITEM NO.	ITEM CODE	DESCRIPTION	
	2. 3.	2528-8445113 2528-8445115	Flagger Pilot Car If the Contractor chooses to use pilot car or flaggers to perform their work, they will be measured and paid for using these bid items.	
	4.	2533-4980005	Mobilization Bid item includes requirements under Iowa DOT Developmental Specification for Construction Progress Schedule.	
	5.	2544-1001100	Clean + Fill Crack (Pavement Maintenance) Refer to Crack Filling Estimates Table on Sheet A.02 for proposed roadway locations and mileage summary.	
	6.	2544-1003000	Filler Material (Maintenance) Refer to Crack Filling Estimates Table on Sheet A.02 for proposed roadway locations and filler material estimates. Gallon were estimated for all seal locations according to field conditions observed at the time of plan development. This bid item quantity is an estimate only and should not be used to base payment on. Actual gallons of filler material used will be the quantity paid for.	

GENERAL PROJECT NOTES	
NO.	NOTE
1.	The Contractor shall provide a summary of gallons used per roadway segment at the completion of the project to the County. The actual gallons used will be the quantity paid for on the project.
2.	Black Hawk County will be responsible for any construction staking required on the project. The Contractor shall notify the County at least 2 weeks prior to construction with any staking requests.
3.	Iowa DOT Standard Specification Sections associated with bid item codes shall apply to each item.
4.	The Contractor shall take care around all pavement markings as to not obscure them with emulsion if / when possible.
5.	The County Engineer reserves the right to substitute/change roadways and/or add additional crack fill locations to this project after it has been let and awarded. Any such changes or additions will be discussed with the Contractor prior to work beginning.