

PATRICK F. GILL
 WOODBURY COUNTY
 AUDITOR & RECORDER &
 COMM. OF ELECTIONS

13b
RECEIVED 8-23-16

AUG 13 2016

COUNTY ENGINEER
 WOODBURY COUNTY IOWA
 BY _____

To: Woodbury County Engineer

Subject: Materials Inspection Costs

016 AUG 26 AM 8 16

Your signature authorizes a transfer of funds from your Farm to Market account to the Iowa Department of Transportation's account. **PLEASE DO NOT ISSUE PAYMENT**

Return to Sarah Doser-Sansgaard, Office of Finance, Iowa Department of Transportation, 800 Lincoln Way, Ames, IA 50010.

We certify that the costs referenced in this billing have been reviewed and are allowable costs. We request the Iowa Department of Transportation process payment from the applicable Farm to Market account.

APPROVAL AUTHORITY

DATE

Mark J. Mahan
 COUNTY ENGINEER

8/18/2016

George Taylor
 CHAIRMAN, BOARD OF SUPERVISORS

8/23/2016

MATLS 431
 JULY 2014

IOWA DEPARTMENT OF TRANSPORTATION
 Office of Materials

TABULATION OF ASSURANCE/VERIFICATION TESTING COSTS

CONTRACTOR: KNIFE RIVER CORPORATION
 WORK TYPE: HOT MIX ASPHALT
 DATE: AUGUST 8, 2016

COUNTY: WOODBURY
 PROJECT: STP-S-C097(110)-5E-97
 ACCT ID: 31361

Any questions, please call Becky Hanson at 515-239-1087

# TESTS	TYPE OF TEST		AMOUNT
	SIEVE ANALYSIS	127.21	0.00
	FREEZE AND THAW	86.51	0.00
	ABRASION	54.56	0.00
	COARSE AGGR. SP. GR. & ABSORB. (AC)	26.71	0.00
	ALUMINUM OXIDE	68.31	0.00
	GYRATORY	77.69	0.00
4	MARSHALL DENSITY	77.69	310.76
4	RICE SP. G.	52.89	211.56
	ACC CORE CORRELATION	77.69	0.00
	HI STRENGTH FASTENERS	47.89	0.00
	PROTECTIVE COATING	31.44	3.00
	MISCELLANEOUS STRUCTURAL STEEL	114.78	0.00
1	A.C. ANALYSIS COMPLETE	229.23	229.23
	DYNAMIC SHEAR RHEOMETER (DSR)	89.19	0.00
	FLOWABLE MORTAR	76.37	0.00
	MISCELLANEOUS METALS	82.36	0.00
	REINFORCING STEEL	266.91	0.00
	FENCING MATERIALS	142.34	0.00
	PLASTICITY INDEX & MECHANICAL ANALYSIS	53.47	0.00
	CALIFORNIA PROFILOGRAPH (per 2 lane mile)	325.76	0.00
	LIQUID PARTIAL ANALYSIS	89.23	0.00
	PCC PLANT CALIBRATION INSPECTION	344.27	0.00
	ELECTRICAL CABLE	261.70	0.00
	ADMIXTURE/WATER REDUCER	76.48	0.00
	PORTLAND CEMENT TEST OR SLAG	332.58	0.00
	AIR ENTRAINING AGENT	90.70	0.00
	FLYASH PHYS TEST	261.28	0.00
	IGNITION OVEN GRADATION	67.69	67.69
	MATERIALS LAB QUALITY MIX	276.83	0.00
COST CENTER 6310	OBJECT 901 902 X	FUNCTION 010	TOTAL \$ 819.24