
******THIS IS A NEW APPENDIX. – PLEASE READ CAREFULLY.******

**INSTRUCTIONS FOR COMPLETION OF
PCC CORE REPORTS**

These instructions are for filling out the computer generated PCC core report form available from the Office of Materials. The following information is entered on the INFORMATION INPUT tab.

Project #

Enter the project number listed on the plans.

Contract ID #

Enter the five-digit accounting ID found on the contract.

Project Units (in, mm)

Enter mm or in depending if the project was metric or English. Core measurements are entered in English units and converted to metric if “mm” is entered.

Design Thickness

Enter the contract thickness. Some projects may have more than one design thickness and therefore would require the use of more than one spreadsheet.

of Sections on Project

Enter the number corresponding to the number of design thickness sections on the project.

This Section #

Enter the section number for this report (1, if only one design thickness)

of Lots in This Section

This is a calculated number corresponding to the number of required cores.

Item Code #

Enter the item code number from plans for the pavement section.

Item Description

Enter the item code description.

Contract Price

Enter the contract unit price for the item.

Plan Quantity (yd²/m²)

Enter the quantity of the item, used to estimate the number of lots or cores.

Final Quantity (yd²/m²)

Enter the actual placed quantity of the item, used for payment.

Contractor

Enter the name of the contractor performing the work. If it is a subcontractor, list this after the contractor name.

County

Enter the county listed on the project plans.

Plant Type

Enter Central or Ready Mix.

Cement Source/City

Enter the actual cement source name and city from IM 401.

Cement Type

Enter the cement type. Example: I, I/II, I(SM), IS, or IP

Fly Ash Source/City:

Enter the actual fly ash source name from IM 491.17.

Example: ISG Headwaters is **NOT** the source name.
Ottumwa **IS** the source name.

% Substitution

Enter the percent fly ash substitution.

Fly Ash Class

Enter the fly ash class used. Example: C or F

GGBFS Source/City

Enter the actual ggbfs source name from IM 491.14.

% Substitution

Enter the percent ggbfs substitution, if substituted as a mineral admixture (ready mix).

GGBFS Grade

Enter the ggbfs grade used from IM 491.14. Example: 100 or 120

FA T-203 #

Enter the assigned code for Fine Aggregate source.

Source:

Enter the Fine Aggregate source name.

CA T-203 #

Enter the assigned code for Coarse Aggregate source.

Source

Enter the Coarse Aggregate source name.

Interm. T203 #

Enter the assigned code for Intermediate Aggregate source (typically the coarse aggregate source code)

Source

Enter the Intermediate Aggregate source name.

Mix Type

Enter the mix number being used that is listed in the proportion tables of IM 529.

Beginning Core #

Enter the beginning core number assigned by District materials when generating random locations. The first number designates the district the remaining four numbers are non-repeating and should be consecutive for each section Do not used dashes (example: 50125).

Ending Core #

Enter the ending core number assigned by district materials when generating random locations. The first number designates the district the remaining four numbers are non-repeating and should be consecutive for each section. Do not use dashes (example: 50176).

Sampled By

Enter the person responsible for sampling, witnessing, or obtaining the cores.

Measured By

Enter the person responsible for measuring the cores.

Checked By

Enter the person responsible for assurance measuring.

District Mat. Eng.

Enter the District Materials Engineer assigned to the project.

Project Eng.

Enter the project engineer responsible for the project.

Remarks

Enter general remarks as needed for information purposes.

Select the THICKNESS INPUT tab and enter the Date Poured, Date Measured, Station, Lane, distance from centerline (Dist CL), left or right side of centerline (Rt, Lt), and the nine point measurements in the cells shaded gray. ALL NINE POINT MEASUREMENTS MUST BE ENTERED IN ENGLISH UNITS. **NOTE:** Only the nine point measurements are to be entered in English units, all other measurements taken in the field need to be entered in the project units. Nine point measurements will automatically be converted and reported in the units entered on the INFORMATION INPUT tab.

Enter District materials assurance measurements as well as remarks pertaining to individual cores are also entered on this worksheet.

When data has been entered in the THICKNESS INPUT worksheet it will automatically be transferred to the THICKNESS SUMMARY worksheet with calculations.

The only input that can be done on the THICKNESS SUMMARY worksheet is to enter an "X" for cores that are greater than the design thickness by three standard deviations. Cores that are greater than the design thickness by three standard deviations will display a highlighted red cell with a letter Y in the column labeled cores > 3 STDEV. The highlighted cores are the only cores eligible for removal if desired. To remove an eligible core an "X" must be placed next to the highlighted red cell with a letter Y. The number of cores allowed to be removed can be found on the THICKNESS REPORT worksheet. There are several safeguards to ensure that only an allowable number of eligible cores can be removed.

The THICKNESS REPORT tab is summary of the general project data as well as the thickness payment calculations are displayed. There is nothing to input on this sheet since all data is automatically transferred.

Print the THICKNESS SUMMARY and THICKNESS REPORT. The next page is an example of the completed reports.

**IOWA DEPARTMENT OF TRANSPORTATION
ACCEPTANCE AND ASSURANCE TESTING OF PCC CORE THICKNESS
OFFICE OF CONSTRUCTION AND MATERIALS**

PROJECT # : <u>NHSX-137-3(42)-3H-62</u>	CONTRACTOR : <u>C.J. Moyna (sub Manatt's)</u>	
ACCOUNTING ID # : <u>20583</u>	COUNTY : <u>MAHASKA</u>	
# OF SECTIONS ON PROJECT : <u>1</u>	PLANT : <u>READY MIX</u>	
THIS SECTION # : <u>1</u>	PCC MIX # : <u>C-4WR-C</u>	
# OF LOTS IN THIS SECTION : <u>10</u>	BEGINNING CORE # : <u>50622</u>	
	ENDING CORE # : <u>50631</u>	
	SAMPLED BY : <u>Manatt's</u>	
CEMENT TYPE : <u>I/II</u>	SOURCE CODE : <u>PC0802</u>	MEASURED BY : <u>Kert Smith</u>
GGBFS GRADE : _____	SOURCE CODE : _____	CHECKED BY : <u>Garry Dickey</u>
FLY ASH TYPE : <u>C</u>	SOURCE CODE : <u>FA013C</u>	
FA SOURCE : <u>HOFFMAN</u>	T-203 # : <u>A90504</u>	
INTERM. SOURCE : _____	T-203 # : _____	
CA SOURCE : <u>DURHAM MINE</u>	T-203 # : <u>A63002</u>	
REMARKS : <u>Ottumwa Construction needs to fill in plan and final quantities due to valued engineering. Please check that all information is correct.</u>		

PAY SUMMARY

DESIGN THICKNESS :	<u>10.00</u>
ORIGINAL AVERAGE THICKNESS OF ALL CORES IN SECTION :	<u>10.51</u>
ORIGINAL STANDARD DEV. (N-1) OF SECTION :	<u>0.58</u>
ORIGINAL TI INDEX FOR PCC THICKNESS :	<u>-0.07</u>
ORIGINAL % PAYMENT OF SECTION :	<u>101</u>
NUMBER OF DEFICIENT DEPTH CORES :	<u>0</u>
NUMBER OF CORES 3 STDEV THICKER THAN PLAN THICKNESS :	<u>1</u>
10% OF ALL CORES IN SECTION (maximum that can be removed) :	<u>1</u>
ADJUSTED AVERAGE THICKNESS OF ALL CORES IN SECTION :	<u>10.34</u>
ADJUSTED STANDARD DEV. (N-1) OF SECTION :	<u>0.25</u>
ADJUSTED TI INDEX FOR PCC THICKNESS :	<u>0.09</u>
ADJUSTED % PAYMENT OF SECTION :	<u>103</u>
DOLLAR INCENTIVE OR DISINCENTIVE :	<u>\$14,847.30</u>

Core #	Date Poured	Design Thick.	Station	Lane	Dist. CL	Rt Lt	Nine Point Measurements									Avg. Thick.	Pass (Y/N)	By	Matis. Assr.	Cores > 3 STDEV	Remove Core
							1	2	3	4	5	6	7	8	9						
50622	08/20/02	10.00	3534 + 74	E BD	4.0	RT	9.75	9.85	9.85	9.80	9.80	9.75	9.85	9.80	9.75	9.80	Y	KS	9.80		
50623	08/20/02	10.00	3551 + 93	E BD	4.0	LT	10.25	10.25	10.35	10.35	10.30	10.25	10.25	10.25	10.25	10.30	Y	KS			
50624	08/15/02	10.00	1004 + 12	E DB	2.2	LT	11.90	11.80	11.85	12.35	12.05	12.00	12.20	11.85	11.80	12.00	Y	KS		Y	x
50625	08/15/02	10.00	1007 + 65	E BD	6.5	LT	10.30	10.15	10.15	10.10	10.10	10.15	10.25	10.10	10.15	10.15	Y	KS			
50626	08/15/02	10.00	1011 + 36	E BD	10.8	RT	10.50	10.40	10.70	10.50	10.40	10.55	10.35	10.45	10.45	10.50	Y	KS			
50627	08/15/02	10.00	1015 + 74	E BD	6.5	RT	10.50	10.40	10.65	10.35	10.40	10.65	10.55	10.45	10.45	10.50	Y	KS			
50628	08/15/02	10.00	1020 + 74	E BD	2.2	LT	10.55	10.40	10.40	10.45	10.50	10.55	10.55	10.60	10.45	10.50	Y	KS			
50629	08/16/02	10.00	1027 + 62	E BD	10.8	LT	10.25	10.15	10.15	10.25	10.15	10.20	10.15	10.15	10.15	10.20	Y	KS			
50630	08/16/02	10.00	1035 + 19	E BD	10.8	LT	10.65	10.45	10.55	10.45	10.50	10.60	10.45	10.45	10.40	10.50	Y	KS			
50631	08/16/02	10.00	1035+ 77	E BD	10.8	LT	10.50	10.50	10.65	10.65	10.65	10.60	10.60	10.75	10.70	10.60	Y	KS	10.60		