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Concrete Testing Report

Contractor/Subcontractor: <u>Major Cement Co Div 1</u>	MDOT Job #: <u>205935</u>	SSI Job #: <u>19902</u>
Foreman: <u>John</u>	Inspector Name: <u>Andrew Patterson</u>	
Weather: <u>Sunny</u>	Tester Name: <u>Bred Shaulkes</u>	
Lot No: <u>Detroit streets - 1</u>	Certification #: <u>01645937</u>	
Description of Pour: <u>Man holes</u>	Date: <u>10-10-19</u>	
Location/Station of Pour: <u>Third St between York and Grand</u>	Scheduled Pour Time: <u>10 AM</u>	
MDOT Spec. (Yr): <u>2012</u>	Mix Design Number: <u>DDHE7SE80328</u>	Method of Placement: <u>Truck chute</u>
Conc. Grade: <u>PWC</u>	Agg. Correction: <u>0.2</u>	Design Strength: <u>3500</u>
	Air: <u>5.5%</u> to <u>8.5%</u>	Slump: <u>0</u> inch to <u>6</u> inch

Field Testing Summary

Time	Air Temp (F)	Concrete Temp (F)	Air Content (%)	Slump (in.)	Cylinder Set	Cumulative Yardage
11:10	64°	75°	5.5%	3"	1	* 8
2:50	74°	81°	5.8%	2 1/2"	2	15
5:10	74°	80°	5.6%	3"	—	26

Compressive/Flexural Strength Test Results

Cylinder/Beam ID	Set No.	Age (Days)	Break Date	Diameter (inch)	Cross Sectional Area (in ²)	Maximum Load (Pounds)	Strength (PSI)	Break Type	Broken By
Detroit Streets	1	28		4"	12.57	68305	5430	5	GEK
1A	1	28	11-7	↓	↓	71020	5650	2	GEK
1B	1	28	11-7	↓	↓				
extra 1C	1			↓	↓				
early 1D	1	3	10-13	↓	↓	—	—	—	—
early 1E	1	3	10-13	↓	↓	—	—	—	—
Beams	1	2	10-11		6x6		2400	300	325
	2	2	10-11		6x6		2800	350	
	3	2							
	4	2							

Witness
By
John
w/acc/or
MATT
HRC

On-Site Activity Report:

Correlation Results: Tester Andrew 2451389 Delivery Ticket # 2451399 Air % 5.6 Slump 3" Air Temp 64° Concrete Temp 77°

* 142.41 lb/st³

26.91 yield

1st cooler @ York + Third St
Beams under Bridge

Volume of Concrete Poured:

Conc. Source and City: Superior materials

Concrete Truck Number(s):

See Above

Cylinder Break Report (Explain any Anomalies):

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Concrete Testing Report

Contractor/Subcontractor: <u>Major Concrete Co Div 1</u>		MDOT Job #: <u>205935</u>	SSI Job #: <u>19902</u>
Foreman: <u>John</u>		Inspector Name: <u>Andrew</u>	<u>HRC</u>
Weather: <u>overcast</u>		Tester Name: <u>Brod Shultes</u>	
Lot No: <u>Detroit streets - 2</u>		Certification #: <u>01645937</u>	
Description of Pour: <u>Patches</u>		Date: <u>10-11-19</u>	
Location/Station of Pour: <u>Third Street</u>		Scheduled Pour Time: <u>12:00</u>	
MDOT Spec. (Yr): <u>2012</u>		Mix Design Number: <u>DDH275E80</u>	
Conc. Grade: <u>PNC</u>		Method of Placement: <u>Truck Chute</u>	
Agg. Correction: <u>0.2</u>	Design Strength: <u>3500</u>	Air: <u>5.5% to 8.5%</u>	Slump: <u>0</u> inch to <u>6</u> inch

Field Testing Summary

Time	Air Temp (F)	Concrete Temp (F)	Air Content (%)	Slump (in.)	Cylinder Set	Cumulative Yardage
1250	70°	75°	6.0%	5 1/2"	1	* 10 yds

Compressive/Flexural Strength Test Results

Cylinder/Beam ID	Set No.	Age (Days)	Break Date	Diameter (inch)	Cross Sectional Area (in ²)	Maximum Load (Pounds)	Strength (PSI)	Break Type	Broken By
2A	1	28	11-8	4"	12.57	77165	5900	S	GEK
2B	1	28	11-8	4"	12.57	73635	5860	S	GEK
extra 2C	1								
early 2D	1								
early 2E	1								
Beams 1	1	10-12	10-12	6x6		1900	240		MAC
2	1	1	10-12						
3	1								
4	1								

On-Site Activity Report:

Correlation Results: Tester Andrew Delivery Ticket # 2451992 Air % 6.0% Slump 5 1/2" Air Temp Concrete Temp 77°

* 142.37 lb/lft³
26.98 yield

* Coaster + beams at
* 3rd and Baltimore

Volume of Concrete Poured: 10 yds
Conc. Source and City: Superior Materials
Concrete Truck Number(s): see above

Cylinder Break Report (Explain any Anomalies):

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Concrete Testing Report

Contractor/Subcontractor: <u>Major Cement Div 1</u>		MDOT Job #: <u>205935</u>	SSI Job #: <u>19902</u>
Foreman: <u>John</u>		Inspector Name: <u>Andrew HRC</u>	
Weather: <u>Cloudy</u>		Tester Name: <u>Brad Shaulkes</u>	
Lot No: <u>Detroit streets - 3</u>		Certification #: <u>01645937</u>	
Description of Pour: <u>Petels</u>		Date: <u>10-17-19</u>	
Location/Station of Pour: <u>McLellan St</u>		Scheduled Pour Time: <u>10:30</u>	
MDOT Spec. (Yr): <u>2012</u> Mix Design Number: <u>DDH2 75F 8320</u>		Method of Placement: <u>Truck chuk</u>	
Conc. Grade: <u>PWC</u>	Agg. Correction: <u>0.2</u>	Design Strength: <u>3500</u>	Air: <u>5.5%</u> to <u>8.5%</u> Slump: <u>0</u> inch to <u>6</u> inch

Field Testing Summary

Time	Air Temp (F)	Concrete Temp (F)	Air Content (%)	Slump (in.)	Cylinder Set	Cumulative Yardage
<u>11:10</u>	<u>48°</u>	<u>70°</u>	<u>6.4%</u>	<u>4 1/2</u>	<u>1</u>	<u>7 yds</u>

Compressive/Flexural Strength Test Results

Cylinder/Beam ID	Set No.	Age (Days)	Break Date	Diameter (inch)	Cross Sectional Area (in ²)	Maximum Load (Pounds)	Strength (PSI)	Break Type	Broken By
<u>3A</u>	<u>1</u>	<u>28</u>	<u>11-14</u>	<u>4"</u>	<u>12.57</u>	<u>64285</u>	<u>5110</u>	<u>2</u>	<u>GER</u>
<u>3B</u>	<u>1</u>	<u>28</u>	<u>11-14</u>	<u>↓</u>	<u>↓</u>	<u>63100</u>	<u>5020</u>	<u>5</u>	<u>GER</u>
<u>extra 3C</u>	<u>1</u>			<u>↓</u>	<u>↓</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>
<u>Beams 1</u>	<u>1</u>			<u>6x6</u>					
<u>2</u>	<u>1</u>			<u>↓</u>					
<u>3</u>	<u>1</u>			<u>↓</u>					
<u>4</u>	<u>1</u>			<u>↓</u>					

On-Site Activity Report:

Correlation Results: Tester Ryan Delivery Ticket # 2453953 Air % 4 1/2 Slump 4 1/2 Air Temp 70° Concrete Temp 70°

140.28 16/ft³

yield 27.34

Master + Beams

On MC Cellane @ Jefferson

Volume of Concrete Poured: 7 yds

Conc. Source and City: Superior

Concrete Truck Number(s): See Above

Cylinder Break Report (Explain any Anomalies):

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Concrete Testing Report

Contractor/Subcontractor: <u>Major Cement Div 1</u>		MDOT Job #: <u>205935</u>	SSI Job #: <u>19902</u>
Foreman: <u>John</u>		Inspector Name: <u>Andrew HRC</u>	
Weather: <u>clear sunny</u>		Tester Name: <u>Brad Shoultes</u>	
Lot No: <u>Detroit Streets - 4</u>		Certification #: <u>01645937</u>	
Description of Pour: <u>Patches</u>		Date: <u>10-18-19</u>	
Location/Station of Pour: <u>McLellan St</u>		Scheduled Pour Time: <u>10:30</u>	
MDOT Spec. (Yr): <u>2012</u> Mix Design Number: <u>DDHE758320</u>		Method of Placement: <u>Truck chute</u>	
Conc. Grade: <u>PCC</u>	Agg. Correction: <u>0.2</u>	Design Strength: <u>3500</u>	Air: <u>5.5%</u> to <u>8.5%</u> Slump: <u>0</u> inch to <u>6</u> inch

Field Testing Summary

Time	Air Temp (F)	Concrete Temp (F)	Air Content (%)	Slump (in.)	Cylinder Set	Cumulative Yardage
<u>11:30</u>	<u>48°</u>	<u>71°</u>	<u>7.2%</u>	<u>4"</u>	<u>1</u>	<u>7 yds</u>
<u>3:00</u>	<u>52°</u>	<u>72°</u>	<u>6.0%</u>	<u>5"</u>	<u>—</u>	<u>17 yds</u>

Compressive/Flexural Strength Test Results

Cylinder/Beam ID	Set No.	Age (Days)	Break Date	Diameter (inch)	Cross Sectional Area (in ²)	Maximum Load (Pounds)	Strength (PSI)	Break Type	Broken By
<u>4A</u>	<u>1</u>	<u>28</u>	<u>11-15</u>	<u>4"</u>	<u>12.57</u>	<u>59075</u>	<u>4700</u>	<u>5</u>	<u>GEK</u>
<u>4B</u>	<u>1</u>	<u>28</u>	<u>11-15</u>	<u>↓</u>	<u>↓</u>	<u>60025</u>	<u>4780</u>	<u>5</u>	<u>GEK</u>
<u>4C</u>	<u>1</u>			<u>↓</u>	<u>↓</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>
<u>4D</u>	<u>1</u>			<u>↓</u>	<u>↓</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>
<u>4E</u>	<u>1</u>			<u>↓</u>	<u>↓</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>

On-Site Activity Report:

Correlation Results: Tester Fared Delivery Ticket # 2454468 Air % 6.9% Slump 4" Air Temp 46 Concrete Temp 71

140.48 165+3
yield 27.35

cooler @ McLellan and Schiller

Volume of Concrete Poured:

Conc. Source and City: Superior Material

Concrete Truck Number(s): See Above

Cylinder Break Report (Explain any Anomalies):

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Concrete Testing Report

Contractor/Subcontractor: <u>Major Cement Div 1</u>	MDOT Job #: <u>205935</u>	SSI Job #: <u>19902</u>
Foreman: <u>José</u>	Inspector Name: <u>Andrew (HRC)</u>	
Weather: <u>Overcast, rain late 65°-67°</u>	Tester Name: <u>Alan Drust</u>	
Lot No: <u>Detroit Streets - 6</u>	Certification #: <u>01197359</u>	
Description of Pour: <u>Structure adjustments</u>	Date: <u>October 21, 2019</u>	
Location/Station of Pour: <u>McLellan/Emmons</u>	Scheduled Pour Time: <u>11:30 am</u>	
MDOT Spec. (Yr): <u>2012</u> Mix Design Number: <u>P.N.C.O.M</u>	Method of Placement: <u>Truck chute</u>	
Conc. Grade: <u>PNC</u>	Agg. Correction: <u>G.2</u>	Design Strength: <u>3500</u>
	Air: <u>5.5%</u> to <u>8.5%</u>	Slump: <u>0</u> inch to <u>6</u> inch

Field Testing Summary

Time	Air Temp (F)	Concrete Temp (F)	Air Content (%)	Slump (in.)	Cylinder Set	Cumulative Yardage
<u>11:50 am</u>	<u>65</u>	<u>69</u>	<u>6.8</u>	<u>4</u>	<u>1</u>	<u>7</u>
<u>1:35 pm</u>	<u>65</u>	<u>72</u>	<u>6.4</u>	<u>4 1/2</u>	<u>-</u>	<u>14</u>
<u>3:00 pm</u>	<u>67</u>	<u>72</u>	<u>7.6</u>	<u>4 1/2</u>	<u>-</u>	<u>22</u>

Compressive/Flexural Strength Test Results

Cylinder/Beam ID	Set No.	Age (Days)	Break Date	Diameter (inch)	Cross Sectional Area (in ²)	Maximum Load (Pounds)	Strength (PSI)	Break Type	Broken By
<u>6A</u>	<u>1</u>	<u>28</u>	<u>11-18</u>	<u>4</u>	<u>12.57</u>	<u>52090</u>	<u>4140</u>	<u>2</u>	<u>OC</u>
<u>6B</u>	<u>1</u>	<u>28</u>	<u>11-18</u>	<u>4</u>	<u>12.57</u>	<u>54335</u>	<u>4320</u>	<u>2</u>	<u>OC</u>
<u>extra 6C</u>	<u>1</u>			<u>4</u>					
<u>early 6D</u>	<u>1</u>			<u>4</u>					
<u>early 6E</u>	<u>1</u>			<u>4</u>					

On-Site Activity Report:

Correlation Results: Tester Covey (S.E.) Delivery Ticket # 1214763 Air % 6.6 Slump 3 1/2 Air Temp 65 Concrete Temp 69

Volume of Concrete Poured: 22 yards

Conc. Source and City: Superior McInnis

Concrete Truck Number(s): 2339, 402

438

Cylinder Break Report (Explain any Anomalies): _____

This concrete report has been independently reviewed and verified by: _____

142.08 lbs/cft

26.85 yield



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Concrete Testing Report

Contractor/Subcontractor: <u>Major Cement</u>		MDOT Job #: <u>205935</u>	SSI Job #: <u>19902</u>
Foreman: <u>Juso</u>		Inspector Name: <u>Andrew - HRC</u>	
Weather: <u>Sunny, 54°-60°</u>		Tester Name: <u>Alan Droste</u>	
Lot No: <u>Detroit Streets - 7</u>		Certification #: <u>0119735.9</u>	
Description of Pour: <u>Structure adjustments</u>		Date: <u>October 22, 2019</u>	
Location/Station of Pour: <u>Mack/McClellan</u>		Scheduled Pour Time: <u>11:30am</u>	
MDOT Spec. (Yr): <u>2012</u> Mix Design Number: <u>P.N.com</u>		Method of Placement: <u>Truck chute</u>	
Conc. Grade: <u>PNC</u>	Agg. Correction: <u>0.2</u>	Design Strength: <u>3500</u>	Air: <u>5.5% to 6.5%</u> Slump: <u>6</u> inch to <u>6</u> inch

MDOT P-NC w/WR w/o NCA

Field Testing Summary

Time	Air Temp (F)	Concrete Temp (F)	Air Content (%)	Slump (in.)	Cylinder Set	Cumulative Yardage
<u>11:45am</u>	<u>60°</u>	<u>69°</u>	<u>7.0</u>	<u>4 1/2</u>	<u>1</u>	<u>7</u>
<u>2:00pm</u>	<u>59°</u>	<u>69°</u>	<u>6.2</u>	<u>4</u>	<u>-</u>	<u>15</u>
<u>3:30pm</u>	<u>54°</u>	<u>66°</u>	<u>6.1</u>	<u>4 1/2</u>	<u>-</u>	<u>22</u>

Compressive/Flexural Strength Test Results

Cylinder/Beam ID	Set No.	Age (Days)	Break Date	Diameter (inch)	Cross Sectional Area (in ²)	Maximum Load (Pounds)	Strength (PSI)	Break Type	Broken By
<u>7A</u>	<u>1</u>	<u>28</u>	<u>11-19</u>	<u>4</u>	<u>12.57</u>	<u>47255</u>	<u>3760</u>	<u>5</u>	<u>GER</u>
<u>7B</u>	<u>1</u>	<u>28</u>	<u>11-19</u>	<u>4</u>		<u>47610</u>	<u>3790</u>	<u>5</u>	<u>GER</u>
<u>extra 7C</u>	<u>1</u>			<u>4</u>					
<u>early 7D</u>	<u>1</u>			<u>4</u>					
<u>early 7E</u>	<u>1</u>			<u>4</u>					

On-Site Activity Report:

Correlation Results: Tester (S.E) Wadsworth Delivery Ticket # 1214826 Air % 6.4 Slump 5" Air Temp 60 Concrete Temp 68

codes @ 3727 McClellan

Volume of Concrete Poured:

Conc. Source and City: McCaig

Concrete Truck Number(s): 2428, 845, 358

Cylinder Break Report (Explain any Anomalies):

This concrete report has been independently reviewed and verified by:

141.92 lbs/cft

26.867 yield

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Contractor/Subcontractor: Major Cement Div. 1		MDOT Job #: 205935		SSI Job #: 19902	
Foreman: Johnny		Inspector Name: Andrew & Mohammad - HRC			
Weather: cloudy		Tester Name: Terry Nurenberg			
Lot No: Detroit Streets-8		Certification #: 01358382			
Description of Pour: curb & structure adj.		Date: 10-25-19			
Location/Station of Pour: Mclellan - Mack to		Scheduled Pour Time: 10:30			
MDOT Spec. (Yr): 2012 Mix Design Number: DDHE75E80320		Method of Placement: truck chute			
Conc. Grade: PNC	Agg. Correction: .2	Design Strength: 3500	Air: 5.5% to 8.5%	Slump: 0 inch to 6 inch	

[illegible][illegible]

Correlation Results: Tester

Correlation Results: Tester 5.14.17 Delivery Ticket # 5.14.17 Air % 5.14.17 Slump 5.14.17 Air Temp 5.14.17 Concrete Temp 5.14.17

$$\frac{43.02 - 7.67}{.249} = 141.97 \text{ lbs/ft}^3$$

Volume of Concrete Poured:

Conc. Source and City:

Concrete Truck Number(s): 9175, 3206

Cylinder Break Report (Explain any Anomalies):

This concrete report has been independently reviewed and verified by:

cooler @ 3751 McEllan

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Contractor/Subcontractor: Major Cement Div. I		MDOT Job #: 205935		SSI Job #: 19902	
Foreman: Johnny		Inspector Name: Mohammad - H.R.C.			
Weather: Partly Sunny		Tester Name: Terry Nurenberg			
Lot No: Detroit Streets - 9		Certification #: 01358382			
Description of Pour: Structure adjustments		Date: 10-26-19			
Location/Station of Pour: McKellam + Barker - Northward		Scheduled Pour Time: 9:30 AM			
MDOT Spec. (Yr): 2012		Mix Design Number: DHE75E8030		Method of Placement: Truck chute	
Conc. Grade: PNC	Agg. Correction: .2	Design Strength: 3500	Air: 5.5 % to 6 %	Slump: 0 inch to 6 inch	

[illegible][illegible]
$$\frac{4285 - 7.67}{249} = 141.29 \text{ lbs/ft}^3$$

This concrete report has been independently reviewed and verified by:

cooler @ 6042 McEllan



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Concrete Testing Report

Contractor/Subcontractor: <u>Mayor Cement Div I</u>	MDOT Job #: <u>205935</u>	SSI Job #: <u>19902</u>
Foreman: <u>Jose</u>	Inspector Name: <u>Andrew</u>	
Weather: <u>Partly Sunny</u>	Tester Name: <u>Trey Wittenbach</u>	
Lot No: <u>Detroit Streets - D</u>	Certification #: <u>01390909</u>	
Description of Pour: <u>Structure adjustment</u>	Date: <u>11-7-19</u>	
Location/Station of Pour: <u>Southfield / Joy</u>	Scheduled Pour Time: <u>10:30</u>	
MDOT Spec. (Yr): <u>2012</u>	Mix Design Number: <u>MIX 75BEO32</u>	Method of Placement: <u>Truck chute</u>
Conc. Grade: <u>PUC</u>	Agg. Correction: <u>2</u>	Design Strength: <u>3500</u>
	Air: <u>5.5</u> % to <u>8.5</u> %	Slump: <u>0</u> inch to <u>0</u> inch

Field Testing Summary

Time	Air Temp (F)	Concrete Temp (F)	Air Content (%)	Slump (in.)	Cylinder Set	Cumulative Yardage
12:15	37°	64°	8.0%	5"	1	7
2:10	37°	64°	7.7%	5 1/4"	2	22
3:45	37°	58°	7.7%	4 3/4"		30
5:30	32°	55°	8.2%	5		30

Compressive/Flexural Strength Test Results

Cylinder/Beam ID	Set No.	Age (Days)	Break Date	Diameter (inch)	Cross Sectional Area (in ²)	Maximum Load (Pounds)	Strength (PSI)	Break Type	Broken By	
Detroit Streets	10A	1	28	12-5	4	1257	54130	4310	2	OC
EXTRA	10B	1	28	12-5			57010	4540	2	OC
	10C	1								
	10D	1	3	11-10			34350	2730	3	AO
	10E	1	3	11-10			34150	2720	3	AO
Beams	1	2	1	11-8	6x8x6x8	250	30	5	TW	
	2	2	1	11-8						
	3	2	1	11-8						
	4	2	1	11-8						

On-Site Activity Report:

Correlation Results: Tester Vikram Delivery Ticket # 3054381 Air % 8.0% Slump 5" Air Temp 37° Concrete Temp 64°

$$\frac{42.24 - 7.6}{.248} = 139.68 \text{ w/c}$$

27.4 yd/c

COOLER

BEAMS

8655 Southfield

8074

Ashton

Volume of Concrete Poured: 36 yds

Conc. Source and City: McGregor Kellogg

Concrete Truck Number(s): See above

Cylinder Break Report (Explain any Anomalies):

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Concrete Testing Report

Contractor/Subcontractor: <u>Mayor Inv I</u>	MDOT Job #: <u>205935</u>	SSI Job #: <u>19902</u>
Foreman: <u>None</u>	Inspector Name: <u>Andrew Hubble</u>	
Weather: <u>Partly Sunny</u>	Tester Name: <u>Troy W. Hendrich</u>	
Lot No: <u>Delet Streets - 11</u>	Certification #: <u>01390909</u>	
Description of Pour: <u>Structure Adjustment</u>	Date: <u>11-8-19</u>	
Location/Station of Pour: <u>Southfield Jy</u>	Scheduled Pour Time: <u>11:00</u>	
MDOT Spec. (Yr): <u>2012</u>	Mix Design Number: <u>PACOM</u>	Method of Placement: <u>Truck Chute</u>
Conc. Grade: <u>PDC</u>	Agg. Correction: <u>0.2</u>	Design Strength: <u>3500</u>
	Air: <u>5.5</u> % to <u>8.5</u> %	Slump: <u>0</u> inch to <u>10</u> inch

Field Testing Summary

Time	Air Temp (F)	Concrete Temp (F)	Air Content (%)	Slump (in.)	Cylinder Set	Cumulative Yardage
10:55	32°	66°	8.3%	4 3/4	1	7
1:20	36°	65°	8.3%	5		13

Compressive/Flexural Strength Test Results

Cylinder/Beam ID	Set No.	Age (Days)	Break Date	Diameter (inch)	Cross Sectional Area (in ²)	Maximum Load (Pounds)	Strength (PSI)	Break Type	Broken By
Delet 11A	1	28	12-6	4	12.57	57340	4560	2	OC
Streets 11B	1	28	12-6	4	12.57	56435	4490	2	OC
EXTRA 11C	1			4	12.57				
11D	1			4	12.57				
11E	1			4	12.57				
BEAMS 2	1			6x6					
2	1			6x6					
3	1			6x6					
4	1			6x6					

On-Site Activity Report:

Correlation Results: Tester Alan Delivery Ticket # 3054434 Air % 8.5 Slump 4 3/4 Air Temp 32 Concrete Temp 65

$$\frac{42.14 - 7.6}{.248} = 138.71$$

27.5 yield

COOLER BEAMS
333 Southfield

Volume of Concrete Poured: <u>13 yds</u>
Conc. Source and City: <u>McCoy's Redford</u>
Concrete Truck Number(s): <u>See above</u>

Cylinder Break Report (Explain any Anomalies): _____

This concrete report has been independently reviewed and verified by: _____



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Concrete Testing Report

Contractor/Subcontractor: <u>Major Cement</u>		MDOT Job #: <u>205935</u>	SSI Job #: <u>19902</u>
Foreman: <u>Jose</u>		Inspector Name: <u>Andrew</u>	
Weather: <u>Sunny</u>		Tester Name: <u>Steve Zawacki</u>	
Lot No: <u>Det. streets-12</u>		Certification #: <u>01197364</u>	
Description of Pour: <u>Patches around structures</u>		Date: <u>11-18-19</u>	
Location/Station of Pour: <u>SB M-39 Service Drive</u>		Scheduled Pour Time: <u>10:30 am</u>	
MDOT Spec. (Yr): <u>2012</u> Mix Design Number: <u>MDOT RNC-8M</u>		Method of Placement: <u>truck chute</u>	
Conc. Grade: <u>P</u>	Agg. Correction: <u>0.2</u>	Design Strength: <u>3500</u>	Air: <u>5.5% to 8.5%</u> Slump: <u>0</u> inch to <u>6</u> inch

Field Testing Summary

Time	Air Temp (F)	Concrete Temp (F)	Air Content (%)	Slump (in.)	Cylinder Set	Cumulative Yardage
<u>10:45 am</u>	<u>40</u>	<u>77</u>	<u>6.2</u>	<u>4.25</u>	<u>1</u>	<u>7.0</u>
<u>1:00 pm</u>	<u>46</u>	<u>79</u>	<u>5.8</u>	<u>3.75</u>	<u>—</u>	<u>14.0</u>
<u>2:45 pm</u>	<u>45</u>	<u>79</u>	<u>5.7</u>	<u>4.0</u>	<u>2</u>	<u>21.0</u>
<u>4:00 pm</u>	<u>43</u>	<u>78</u>	<u>5.9</u>	<u>4.25</u>	<u>—</u>	<u>28.0</u>

Compressive/Flexural Strength Test Results

Cylinder/Beam ID	Set No.	Age (Days)	Break Date	Diameter (inch)	Cross Sectional Area (in ²)	Maximum Load (Pounds)	Strength (PSI)	Break Type	Broken By
<u>12A</u>	<u>1</u>	<u>28</u>	<u>12-16</u>	<u>4</u>	<u>12.57</u>	<u>66480</u>	<u>5290</u>	<u>2</u>	<u>DC</u>
<u>12B</u>	<u>1</u>	<u>28</u>	<u>12-16</u>	<u>4</u>	<u>12.57</u>	<u>64460</u>	<u>5130</u>	<u>2</u>	<u>DC</u>
<u>12C</u>	<u>1</u>	<u>extra</u>		<u>4</u>	<u>12.57</u>				
<u>Beam #1</u>	<u>2</u>								
<u>#2</u>	<u>2</u>								
<u>#3</u>	<u>2</u>								
<u>#4</u>	<u>2</u>								

On-Site Activity Report:

Correlation Results: Tester Fured Delivery Ticket # 1 Air % 5.9 Slump 4.0" Air Temp 41 Concrete Temp 77

42.6

-7.6

$$\frac{3500}{1.25} = 1400 \text{ lb/ft}^3$$

Volume of Concrete Poured: _____

Conc. Source and City: _____

Concrete Truck Number(s): _____

Cylinder Break Report (Explain any Anomalies): _____

This concrete report has been independently reviewed and verified by: _____