PEC FIELD SERVICES

Located At 350 South Washington
Mailing Address 303 South Topeka
Wichita, KS 67202
(316) 262-6457 www.pec1.com

Concrete Test Report

Project No.: 190907-000.01
Report No.: CTR:PEC-W23374-C1-1

Client : Wildcat Construction Co., Inc.
Project : Plant 1 Head Works Paving Testing
3100 S Grove
Wichita KS
Project Manager : Luke A Rogers

CC: Nathan Adams

Accreditation is granted by AAP and this accreditation is limited to the laboratory and the standards for which the laboratory is accredited. (#) indicates tests for which the lab is not accredited.

Date Issued: 12/13/2019
Reviewed By: Brandon Kessler

Mix Data

Supplier: CMC
Mix Identification: WE4013
Required Strength: 4000 at age 28 days

Material	Source	Amount	Moisture

Sample Details

Date Sampled: 12/06/19
Time Sampled: 7:00 AM
Time Batched: 8:26 AM
General Location: North Concrete Pavement
Sample Location: See Attached Location Diagram
Contractor: Wildcat Construction
Truck No.: 656
Weather: Sunny/Cold
Batch Size (yd³): 10.0
Sampled By: Jesus Rojas
Date Received: 12/10/19
Time Placed:
Ticket No.: 1092340
Yd³ Placed: 40.0

Specification:

		Measured	Specified
Slump (in):	ASTM C 143	3	
Slump w/ Plasticizer (in):			
Air Temp (°F):		35	
Concrete Temp (°F):	ASTM C 1064	70	
Air Content (%):	ASTM C 231	6.0	
Unit Weight (pcf):	ASTM C 138	140.7	
Water Added (gal)	**Before:**	**After:**	

Compressive Strength of Concrete Cylinders — ASTM C 39

Specimen ID	Date Tested	Age (Days)	Diameter (in)	Length (in)	Area (in²)	Type of Cap	Maximum Load (lbf)	Fracture Type / Remarks	Compressive Strength (psi)	Density (pcf)	Tested By
PEC-W23374-C1\1	12/13/19	7	4.00	8.00	12.57	U	59230	3	4710	142.5	JB2
PEC-W23374-C1\2	01/03/20	28	4.00	8.00	12.57	U				142.0	
PEC-W23374-C1\3	01/03/20	28	4.00	8.00	12.57	U				142.7	
PEC-W23374-C1\4	01/03/20	28	4.00	8.00	12.57	U				142.5	
							Average 28 Day Compressive Strength (psi)				
							Required Strength (psi)		4000		
PEC-W23374-C1\5		Hold	4.00	8.00	12.57	U				142.7	

Notes

1. Sampling to ASTM C 172
2. Specimen(s) prepared to ASTM C 31
3. Capping: B = Bonded ASTM C 617,U = Unbonded ASTM C 1231

Remarks

JB2 - John Ballinger
Fracture Type: 3 = C39: Vert cracking/no cones; C1314: Cone & Split, 3 = Columnar vertical cracking through both ends, no well formed cones

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Concrete Test Report

Project No.:	**190907-000.01**
Report No.:	**CTR:PEC-W23374-C1-1**

Client : Wildcat Construction Co., Inc.
Project : Plant 1 Head Works Paving
Testing
3100 S Grove
Wichita KS
Project Manager : Luke A Rogers

CC:
Nathan Adams

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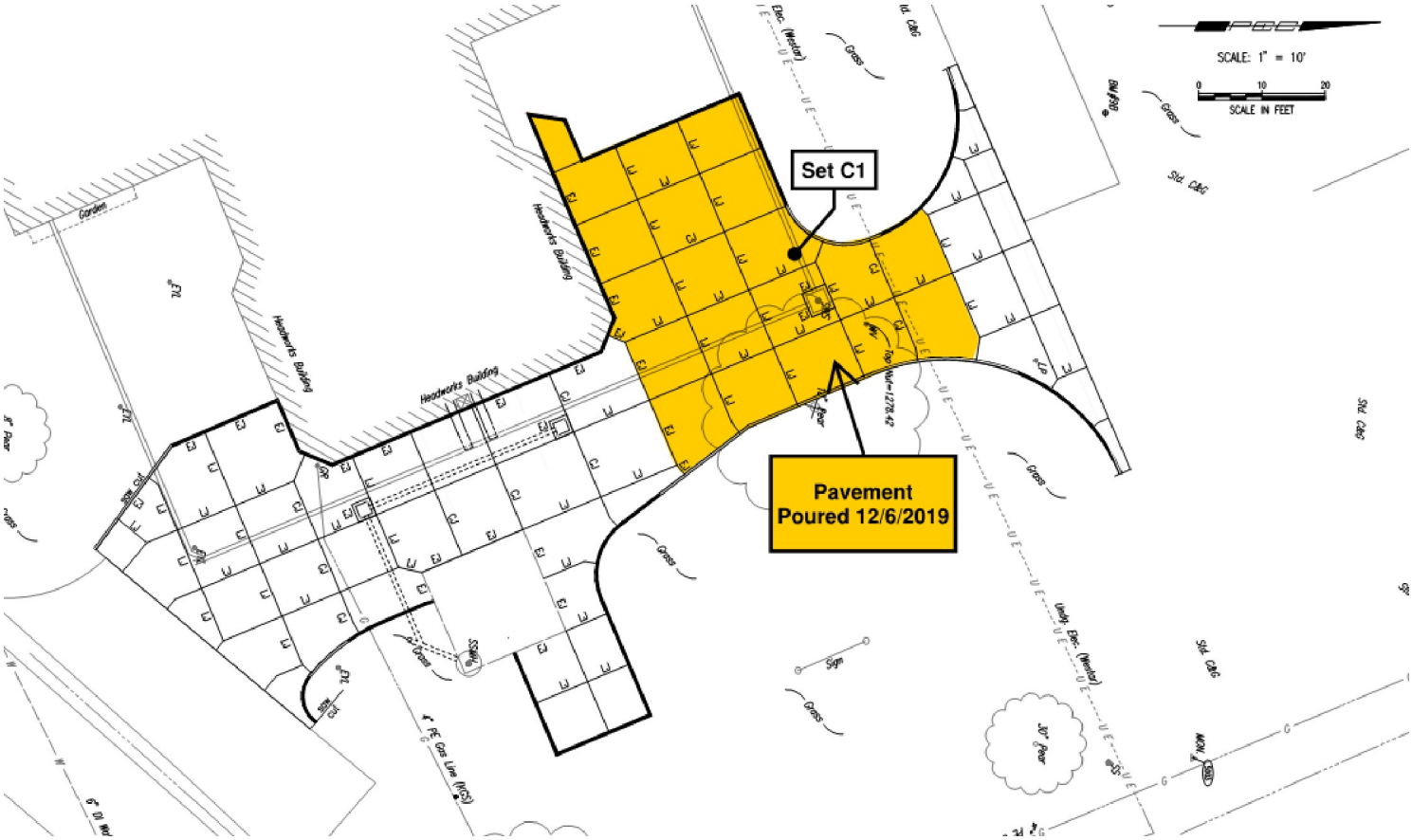
Date Issued: **12/13/2019**
Reviewed By: Brandon Kessler



Concrete Sample Location 12/6/2019

PEC FIELD SERVICES

Located At 350 South Washington
Mailing Address 303 South Topeka
Wichita, KS 67202
(316) 262-6457 www.pec1.com

Concrete Test Report

Project No.: 190907-000.01
Report No.: CTR:PEC-W23374-C1-2

Client : Wildcat Construction Co., Inc.
Project : Plant 1 Head Works Paving Testing
3100 S Grove
Wichita KS
Project Manager : Luke A Rogers

CC: Nathan Adams, Tom Costello

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Date Issued: 1/3/2020
Reviewed By: Brandon Kessler

Mix Data

Supplier: CMC
Mix Identification: WE4013
Required Strength: 4000 at age 28 days

Material	Source	Amount	Moisture

Sample Details

Date Sampled: 12/06/19
Sampled By: Jesus Rojas
Time Sampled: 7:00 AM
Date Received: 12/10/19
Time Batched: 8:26 AM
Time Placed:
General Location: North Concrete Pavement
Sample Location: See Attached Location Diagram
Contractor: Wildcat Construction
Truck No.: 656
Ticket No.: 1092340
Weather: Sunny/Cold
Batch Size (yd³): 10.0
Yd³ Placed: 40.0

Specification:

		Measured	Specified
Slump (in):	ASTM C 143	3	
Slump w/ Plasticizer (in):			
Air Temp (°F):		35	
Concrete Temp (°F):	ASTM C 1064	70	
Air Content (%):	ASTM C 231	6.0	
Unit Weight (pcf):	ASTM C 138	140.7	
Water Added (gal)	**Before:**	**After:**	

Compressive Strength of Concrete Cylinders — ASTM C 39

Specimen ID	Date Tested	Age (Days)	Diameter (in)	Length (in)	Area (in²)	Type of Cap	Maximum Load (lbf)	Fracture Type / Remarks	Compressive Strength (psi)	Density (pcf)	Tested By
PEC-W23374-C1\1	12/13/19	7	4.00	8.00	12.57	U	59230	3	4710	142.5	JB2
PEC-W23374-C1\2	01/03/20	28	4.00	8.00	12.57	U	79240	5	6310	142.0	JB2
PEC-W23374-C1\3	01/03/20	28	4.00	8.00	12.57	U	77550	5	6170	142.7	JB2
PEC-W23374-C1\4	01/03/20	28	4.00	8.00	12.57	U	77120	5	6140	142.5	JB2
							Average 28 Day Compressive Strength (psi)		6200		
							Required Strength (psi)		4000		
PEC-W23374-C1\5		Hold	4.00	8.00	12.57	U				142.7	

Notes

1. Sampling to ASTM C 172
2. Specimen(s) prepared to ASTM C 31
3. Capping: B = Bonded ASTM C 617,U = Unbonded ASTM C 1231

Remarks

JB2 - John Ballinger
Fracture Type: 3 = C39: Vert cracking/no cones; C1314: Cone & Split, 3 = Columnar vertical cracking through both ends, no well formed cones, 5 = Semi-Conical Break, 5 = Side fracture at top or bottom

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Concrete Test Report

Project No.:	**190907-000.01**
Report No.:	**CTR:PEC-W23374-C1-2**

Client : Wildcat Construction Co., Inc.
Project : Plant 1 Head Works Paving Testing
3100 S Grove
Wichita KS
Project Manager : Luke A Rogers

CC:
Nathan Adams, Tom Costello

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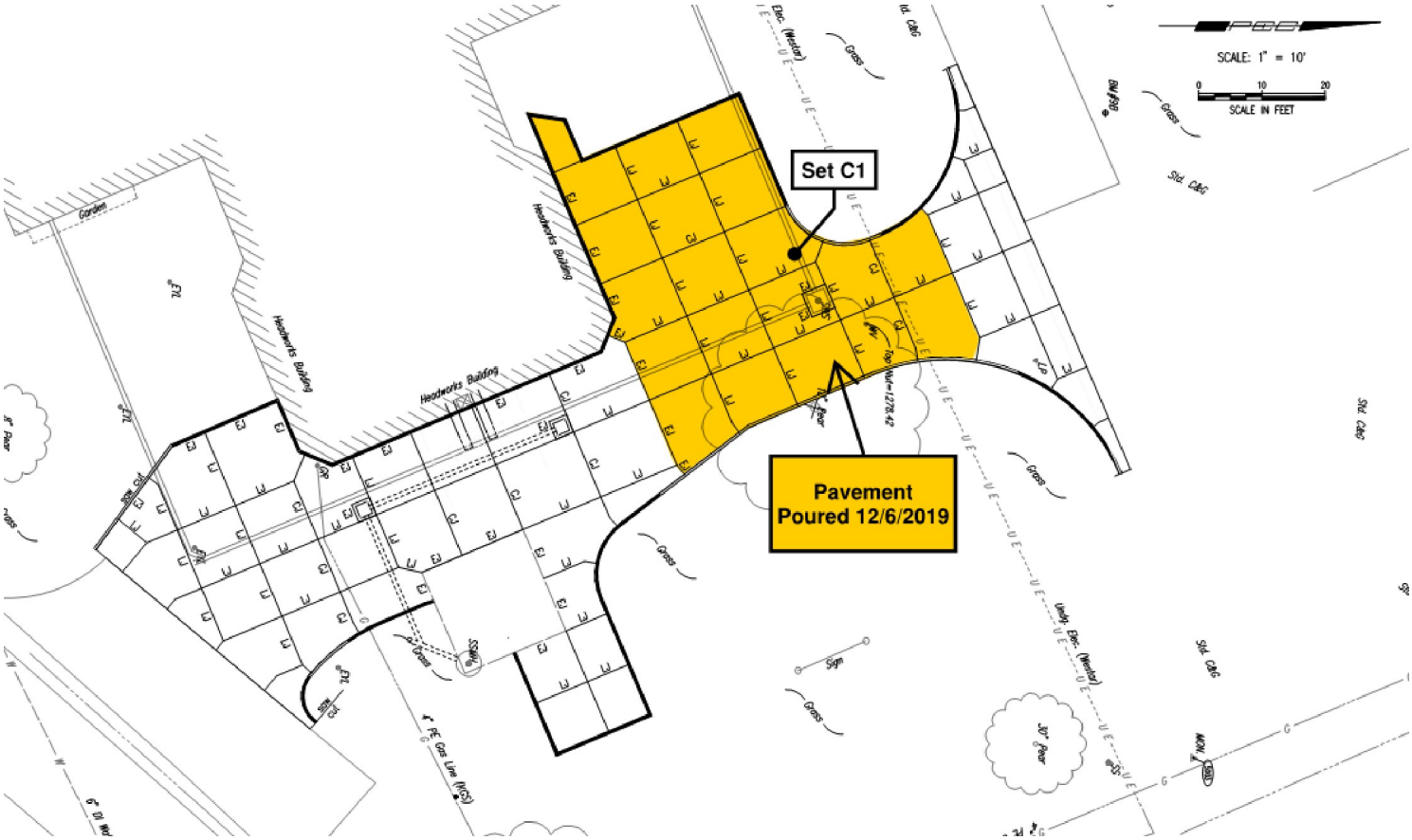
Date Issued: 1/3/2020
Reviewed By: Brandon Kessler



Concrete Sample Location 12/6/2019

PEC FIELD SERVICES

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Mailing Address 303 South Topeka
Wichita, KS 67202
(316) 262-6457 www.pec1.com

Concrete Test Report

Project No.: 190907-000.01
Report No.: CTR:PEC-W23399-C1-1

Client : Wildcat Construction Co., Inc.
Project : Plant 1 Head Works Paving
Testing
3100 S Grove
Wichita KS
Project Manager : Luke A Rogers

CC:
Nathan Adams

Accreditation is granted by AAP and this accreditation is limited to the laboratory and the standards for which the laboratory is accredited. (#) indicates tests for which the lab is not accredited.

Date Issued: 12/16/2019
Reviewed By: Brandon Kessler

Mix Data

Supplier: CMC
Mix Identification: WE4013
Required Strength: 4000 at age 28 days

Material	Source	Amount	Moisture

Sample Details

Date Sampled: 12/09/19
Time Sampled: 12:10 PM
Time Batched: 11:13 AM
General Location: North Entrance
Sample Location: See Attached Location Diagram
Contractor: Wildcat Construction
Truck No.: 592
Weather: Sunny / Windy and Cold
Batch Size (yd³): 7.5
Sampled By: Pat Berry
Date Received: 12/11/19
Time Placed:
Ticket No.: 1092408
Yd³ Placed: 15.0

Specification:

		Measured	Specified
Slump (in):	ASTM C 143	3.5	
Slump w/ Plasticizer (in):			
Air Temp (°F):		33	
Concrete Temp (°F):	ASTM C 1064	73	
Air Content (%):	ASTM C 231	6.0	
Unit Weight (pcf):	ASTM C 138	141.0	
Water Added (gal)	**Before:** 11	**After:**	

Compressive Strength of Concrete Cylinders

ASTM C 39

Specimen ID	Date Tested	Age (Days)	Diameter (in)	Length (in)	Area (in²)	Type of Cap	Maximum Load (lbf)	Fracture Type / Remarks	Compressive Strength (psi)	Density (pcf)	Tested By
PEC-W23399-C1\1	12/16/19	7	4.00	8.00	12.57	U	58180	5	4630	141.1	JB2
PEC-W23399-C1\2	01/06/20	28	4.00	8.00	12.57	U				140.8	
PEC-W23399-C1\3	01/06/20	28	4.00	8.00	12.57	U				140.6	
PEC-W23399-C1\4	01/06/20	28	4.00	8.00	12.57	U				141.8	
							Average 28 Day Compressive Strength (psi)				
							Required Strength (psi)		4000		
PEC-W23399-C1\5		Hold	4.00	8.00	12.57	U				140.8	

Notes

1. Sampling to ASTM C 172
2. Specimen(s) prepared to ASTM C 31
3. Capping: B = Bonded ASTM C 617,U = Unbonded ASTM C 1231

Remarks

JB2 - John Ballinger
Fracture Type: 5 = Semi-Conical Break, 5 = Side fracture at top or bottom

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Concrete Test Report

Project No.:	**190907-000.01**
Report No.:	**CTR:PEC-W23399-C1-1**

Client : Wildcat Construction Co., Inc.
Project : Plant 1 Head Works Paving
Testing
3100 S Grove
Wichita KS
Project Manager : Luke A Rogers

CC:
Nathan Adams

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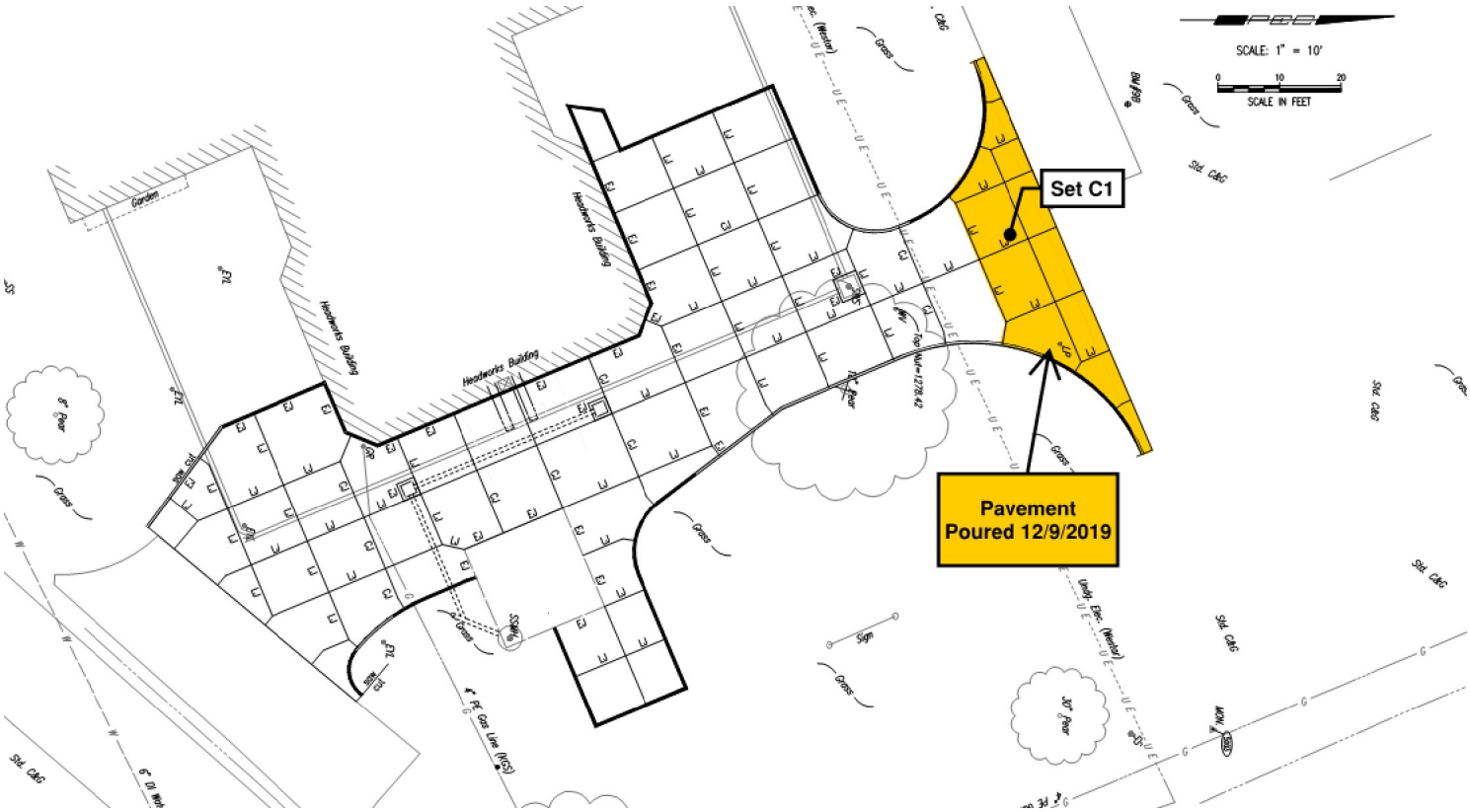
Date Issued: **12/16/2019**
Reviewed By: Brandon Kessler



Concrete Sample Location 12/9/2019

PEC FIELD SERVICES

Located At 350 South Washington
Mailing Address 303 South Topeka
Wichita, KS 67202
(316) 262-6457 www.pec1.com

Concrete Test Report

Project No.: 190907-000.01
Report No.: CTR:PEC-W23463-C1-1

Client : Wildcat Construction Co., Inc.
Project : Plant 1 Head Works Paving Testing
3100 S Grove
Wichita KS
Project Manager : Luke A Rogers

CC: Nathan Adams, Tom Costello

Accreditation is granted by AAP and this accreditation is limited to the laboratory and the standards for which the laboratory is accredited. (#) indicates tests for which the lab is not accredited.

Date Issued: 12/18/2019
Reviewed By: Brandon Kessler

Mix Data

Supplier: CMC
Mix Identification: TE4010
Required Strength: 4000 at age 28 days

Material	Source	Amount	Moisture

Sample Details

Date Sampled: 12/11/19
Time Sampled: 1:20 PM
Time Batched:
General Location: Concrete Pavement
Sample Location: See Attached Location Diagram
Contractor: Wildcat Construction
Truck No.: 55
Weather: Sunny/Cool
Batch Size (yd³): 10.5
Sampled By: Danny Kernes
Date Received: 12/12/19
Time Placed:
Ticket No.: 1092620
Yd³ Placed: 10.5

Specification:

		Measured	Specified
Slump (in):	ASTM C 143	3.5	
Slump w/ Plasticizer (in):			
Air Temp (°F):		46	
Concrete Temp (°F):	ASTM C 1064	73	
Air Content (%):	ASTM C 231	7.8	
Unit Weight (pcf):	ASTM C 138	137.6	
Water Added (gal)	**Before:** 10	**After:**	

Compressive Strength of Concrete Cylinders

ASTM C 39

Specimen ID	Date Tested	Age (Days)	Diameter (in)	Length (in)	Area (in²)	Type of Cap	Maximum Load (lbf)	Fracture Type / Remarks	Compressive Strength (psi)	Density (pcf)	Tested By
PEC-W23463-C1\1	12/18/19	7	4.00	8.00	12.57	U	41840	5	3330	137.5	JB2
PEC-W23463-C1\2	01/08/20	28	4.00	8.00	12.57	U				137.3	
PEC-W23463-C1\3	01/08/20	28	4.00	8.00	12.57	U				136.8	
PEC-W23463-C1\4	01/08/20	28	4.00	8.00	12.57	U				137.5	
							Average 28 Day Compressive Strength (psi)				
							Required Strength (psi)		4000		
PEC-W23463-C1\5		Hold	4.00	8.00	12.57	U				137.5	

Notes

1. Sampling to ASTM C 172
2. Specimen(s) prepared to ASTM C 31
3. Capping: B = Bonded ASTM C 617,U = Unbonded ASTM C 1231

Remarks

JB2 - John Ballinger
Fracture Type: 5 = Semi-Conical Break, 5 = Side fracture at top or bottom

Located At 350 South Washington
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Concrete Test Report

Project No.:	**190907-000.01**
Report No.:	**CTR:PEC-W23463-C1-1**

Client : Wildcat Construction Co., Inc.
Project : Plant 1 Head Works Paving Testing
3100 S Grove
Wichita KS
Project Manager : Luke A Rogers

CC:
Nathan Adams, Tom Costello

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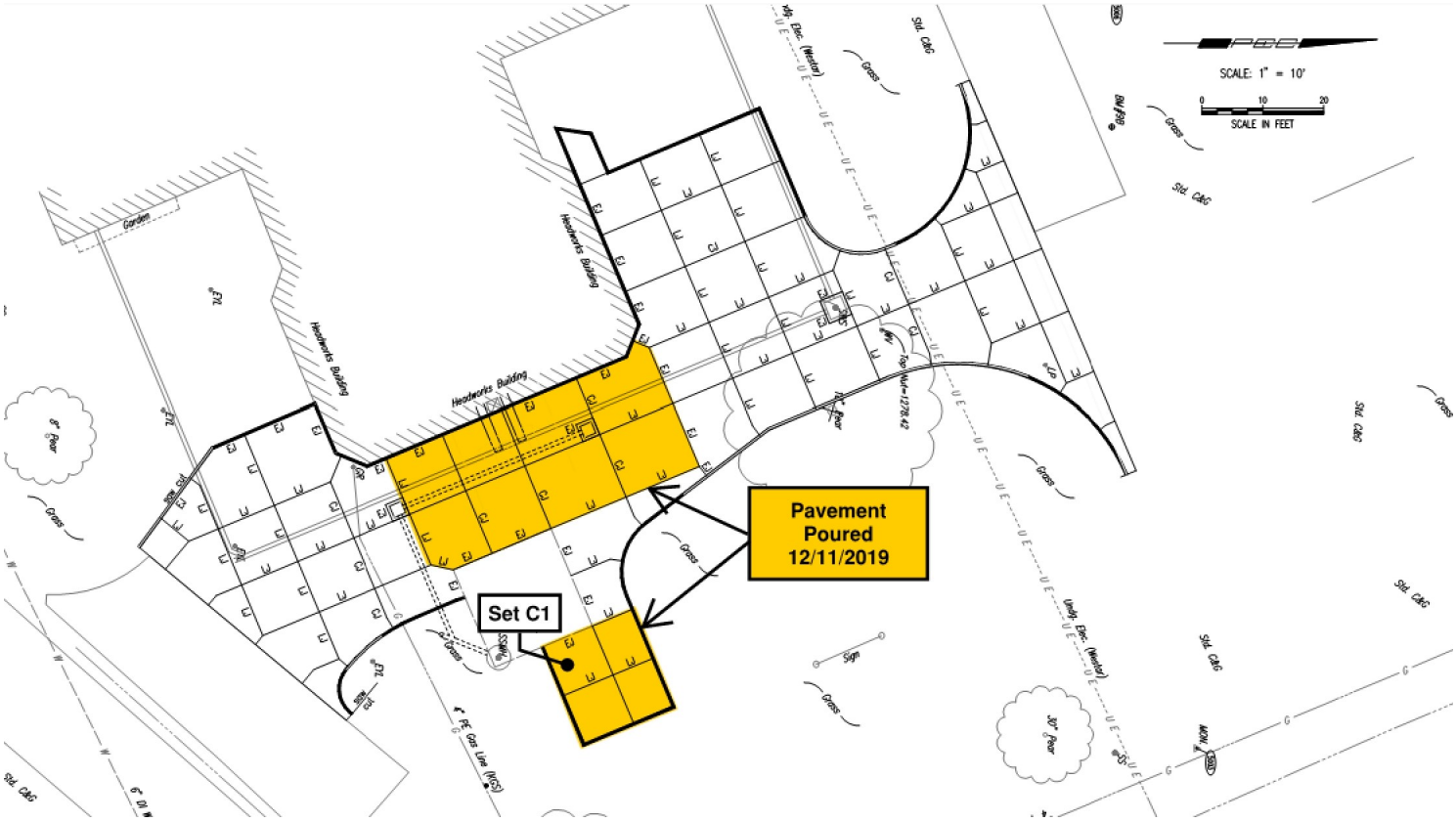

Concrete Sample Location 12/11/2019

PEC FIELD SERVICES

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Concrete Test Report

Project No.: 190907-000.01
Report No.: CTR:PEC-W23463-C1-2

Client : Wildcat Construction Co., Inc.
Project : Plant 1 Head Works Paving Testing
3100 S Grove
Wichita KS
Project Manager : Luke A Rogers

CC: Nathan Adams, Tom Costello

Accreditation is granted by AAP and this accreditation is limited to the laboratory and the standards for which the laboratory is accredited. (#) indicates tests for which the lab is not accredited.

Date Issued: 1/8/2020
Reviewed By: Brandon Kessler

Mix Data

Supplier: CMC
Mix Identification: TE4010
Required Strength: 4000 at age 28 days

Material	Source	Amount	Moisture

Sample Details

Date Sampled: 12/11/19
Time Sampled: 1:20 PM
Time Batched:
General Location: Concrete Pavement
Sample Location: See Attached Location Diagram
Contractor: Wildcat Construction
Truck No.: 55
Weather: Sunny/Cool
Batch Size (yd³): 10.5

Sampled By: Danny Kernes
Date Received: 12/12/19
Time Placed:
Ticket No.: 1092620
Yd³ Placed: 10.5

Specification:

		Measured	Specified
Slump (in):	ASTM C 143	3.5	
Slump w/ Plasticizer (in):			
Air Temp (°F):		46	
Concrete Temp (°F):	ASTM C 1064	73	
Air Content (%):	ASTM C 231	7.8	
Unit Weight (pcf):	ASTM C 138	137.6	
Water Added (gal)	**Before:** 10	**After:**	

Compressive Strength of Concrete Cylinders

ASTM C 39

Specimen ID	Date Tested	Age (Days)	Diameter (in)	Length (in)	Area (in²)	Type of Cap	Maximum Load (lbf)	Fracture Type / Remarks	Compressive Strength (psi)	Density (pcf)	Tested By
PEC-W23463-C1\1	12/18/19	7	4.00	8.00	12.57	U	41840	5	3330	137.5	JB2
PEC-W23463-C1\2	01/08/20	28	4.00	8.00	12.57	U	58080	5	4620	137.3	JB2
PEC-W23463-C1\3	01/08/20	28	4.00	8.00	12.57	U	56280	5	4480	136.8	JB2
PEC-W23463-C1\4	01/08/20	28	4.00	8.00	12.57	U	57060	5	4540	137.5	JB2
							Average 28 Day Compressive Strength (psi)		4550		
							Required Strength (psi)		4000		
PEC-W23463-C1\5		Hold	4.00	8.00	12.57	U				137.5	

Notes

1. Sampling to ASTM C 172
2. Specimen(s) prepared to ASTM C 31
3. Capping: B = Bonded ASTM C 617,U = Unbonded ASTM C 1231

Remarks

JB2 - John Ballinger
Fracture Type: 5 = Semi-Conical Break, 5 = Side fracture at top or bottom

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Concrete Test Report

Project No.:	**190907-000.01**
Report No.:	**CTR:PEC-W23463-C1-2**

Client : Wildcat Construction Co., Inc.
Project : Plant 1 Head Works Paving
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3100 S Grove
Wichita KS
Project Manager : Luke A Rogers

CC:
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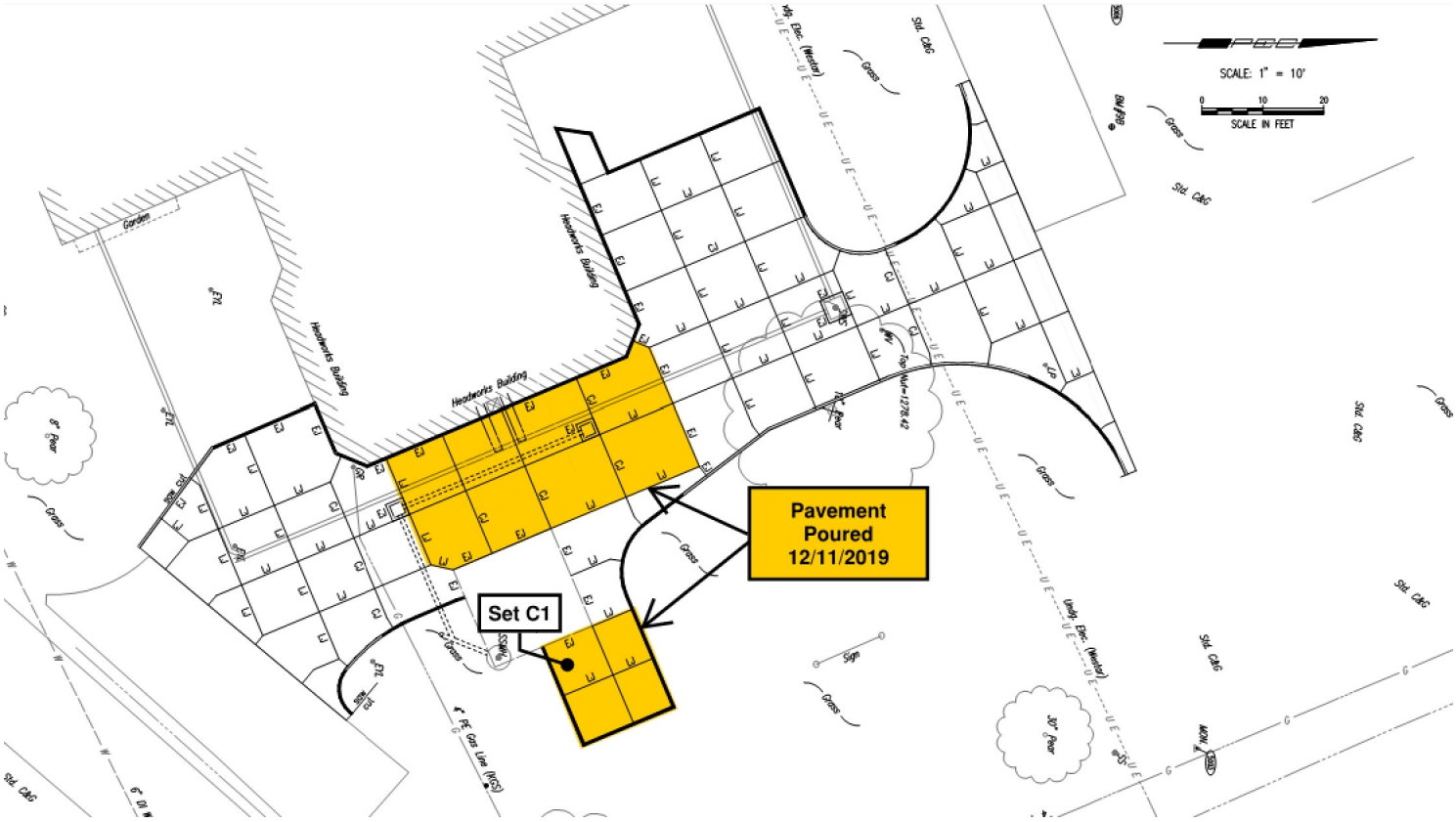

Concrete Sample Location 12/11/2019

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Date Issued: 1/8/2020
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Mix Data

Supplier: CMC
Mix Identification: TE4010
Required Strength: 4000 at age 28 days

Material	Source	Amount	Moisture

Sample Details

Date Sampled: 12/11/19
Time Sampled: 1:20 PM
Time Batched:
General Location: Concrete Pavement
Sample Location: See Attached Location Diagram
Contractor: Wildcat Construction
Truck No.: 55
Weather: Sunny/Cool
Batch Size (yd³): 10.5

Sampled By: Danny Kernes
Date Received: 12/12/19
Time Placed:
Ticket No.: 1092620
Yd³ Placed: 10.5

Specification:

		Measured	Specified
Slump (in):	ASTM C 143	3.5	
Slump w/ Plasticizer (in):			
Air Temp (°F):		46	
Concrete Temp (°F):	ASTM C 1064	73	
Air Content (%):	ASTM C 231	7.8	
Unit Weight (pcf):	ASTM C 138	137.6	
Water Added (gal)	**Before:** 10	**After:**	

Compressive Strength of Concrete Cylinders

ASTM C 39

Specimen ID	Date Tested	Age (Days)	Diameter (in)	Length (in)	Area (in²)	Type of Cap	Maximum Load (lbf)	Fracture Type / Remarks	Compressive Strength (psi)	Density (pcf)	Tested By
PEC-W23463-C1\1	12/18/19	7	4.00	8.00	12.57	U	41840	5	3330	137.5	JB2
PEC-W23463-C1\2	01/08/20	28	4.00	8.00	12.57	U	58080	5	4620	137.3	JB2
PEC-W23463-C1\3	01/08/20	28	4.00	8.00	12.57	U	56280	5	4480	136.8	JB2
PEC-W23463-C1\4	01/08/20	28	4.00	8.00	12.57	U	57060	5	4540	137.5	JB2
							Average 28 Day Compressive Strength (psi)		4550		
							Required Strength (psi)		4000		
PEC-W23463-C1\5		Hold	4.00	8.00	12.57	U				137.5	

Notes

1. Sampling to ASTM C 172
2. Specimen(s) prepared to ASTM C 31
3. Capping: B = Bonded ASTM C 617,U = Unbonded ASTM C 1231

Remarks

JB2 - John Ballinger
Fracture Type: 5 = Semi-Conical Break, 5 = Side fracture at top or bottom

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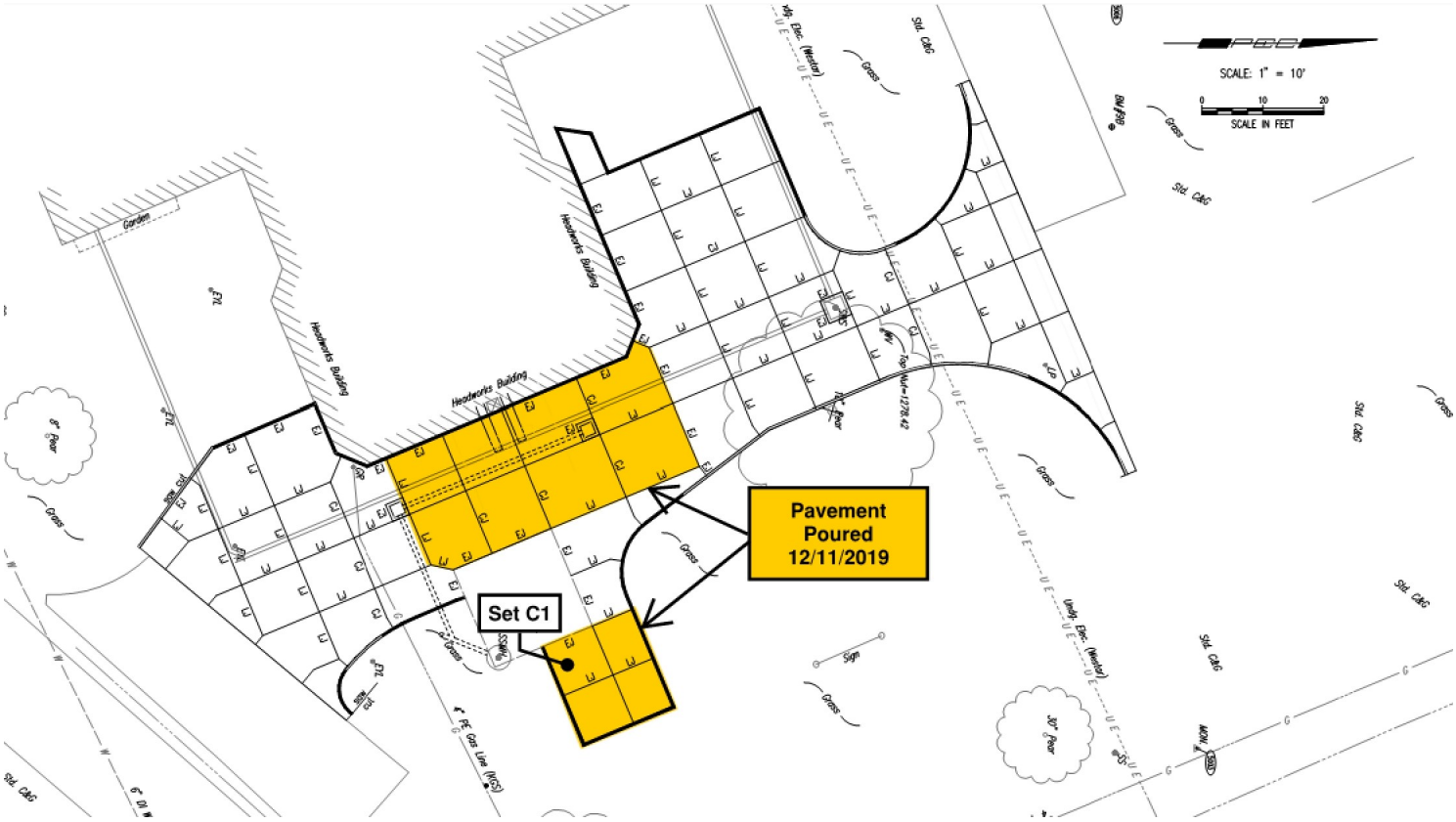

Concrete Sample Location 12/11/2019

PEC FIELD SERVICES

Located At 350 South Washington
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Wichita, KS 67202
(316) 262-6457 www.pec1.com

Concrete Test Report

Project No.: 190907-000.01
Report No.: CTR:PEC-W23510-C1-1

Client : Wildcat Construction Co., Inc.
Project : Plant 1 Head Works Paving
Testing
3100 S Grove
Wichita KS
Project Manager : Luke A Rogers

CC: Nathan Adams, Tom Costello

Accreditation is granted by AAP and this accreditation is limited to the laboratory and the standards for which the laboratory is accredited. (#) indicates tests for which the lab is not accredited.

Date Issued: 12/20/2019
Reviewed By: Brandon Kessler

Mix Data

Supplier: CMC
Mix Identification: YE4010
Required Strength: 4000 at age 28 days

Material	Source	Amount	Moisture

Sample Details

Date Sampled: 12/13/19 **Sampled By:** Pat Berry
Time Sampled: 11:38 AM **Date Received:** 12/17/19
Time Batched: 11:04 AM **Time Placed:**
General Location: South Concrete Pavement Area
Sample Location: See Attached Location Diagram
Contractor: Wildcat Construction
Truck No.: 652 **Ticket No.:** 1092662
Weather: Sunny
Batch Size (yd³): 10.0 **Yd³ Placed:** 20.0

Specification:

		Measured	Specified
Slump (in):	ASTM C 143	3	
Slump w/ Plasticizer (in):			
Air Temp (°F):		56	
Concrete Temp (°F):	ASTM C 1064	73	
Air Content (%):	ASTM C 231	6.2	
Unit Weight (pcf):	ASTM C 138	141.8	
Water Added (gal)	**Before:** 8	**After:**	

Compressive Strength of Concrete Cylinders — ASTM C 39

Specimen ID	Date Tested	Age (Days)	Diameter (in)	Length (in)	Area (in²)	Type of Cap	Maximum Load (lbf)	Fracture Type / Remarks	Compressive Strength (psi)	Density (pcf)	Tested By
PEC-W23510-C1\1	12/20/19	7	4.00	8.00	12.57	U	44350	5	3530	142.3	JB2
PEC-W23510-C1\2	01/10/20	28	4.00	8.00	12.57	U				142.2	
PEC-W23510-C1\3	01/10/20	28	4.00	8.00	12.57	U				141.6	
PEC-W23510-C1\4	01/10/20	28	4.00	8.00	12.57	U				141.6	
							Average 28 Day Compressive Strength (psi)				
							Required Strength (psi)		4000		
PEC-W23510-C1\5		Hold	4.00	8.00	12.57	U				142.7	

Notes

1. Sampling to ASTM C 172
2. Specimen(s) prepared to ASTM C 31
3. Capping: B = Bonded ASTM C 617,U = Unbonded ASTM C 1231

Remarks

JB2 - John Ballinger
Fracture Type: 5 = Semi-Conical Break, 5 = Side fracture at top or bottom

Located At 350 South Washington
Mailing Address 303 South Topeka
Wichita, KS 67202
(316) 262-6457 www.pec1.com

Concrete Test Report

Project No.:	**190907-000.01**
Report No.:	**CTR:PEC-W23510-C1-1**

Client : Wildcat Construction Co., Inc.
Project : Plant 1 Head Works Paving Testing
3100 S Grove
Wichita KS
Project Manager : Luke A Rogers

CC:
Nathan Adams, Tom Costello

Accreditation is granted by AAP and this accreditation is limited to the laboratory and the standards for which the laboratory is accredited. (#) indicates tests for which the lab is not accredited.

Date Issued: 12/20/2019
Reviewed By: Brandon Kessler

Concrete Sample Location 12/13/2019

PEC FIELD SERVICES

Located At 350 South Washington
Mailing Address 303 South Topeka
Wichita, KS 67202
(316) 262-6457 www.pec1.com

Concrete Test Report

Project No.: 190907-000.01
Report No.: CTR:PEC-W23510-C1-2

Client : Wildcat Construction Co., Inc.
Project : Plant 1 Head Works Paving
Testing
3100 S Grove
Wichita KS
Project Manager : Luke A Rogers

CC: Nathan Adams, Tom Costello

Accreditation is granted by AAP and this accreditation is limited to the laboratory and the standards for which the laboratory is accredited. (#) indicates tests for which the lab is not accredited.

Date Issued: 1/10/2020
Reviewed By: Brandon Kessler

Mix Data

Supplier: CMC
Mix Identification: YE4010
Required Strength: 4000 at age 28 days

Material	Source	Amount	Moisture

Sample Details

Date Sampled: 12/13/19 **Sampled By:** Pat Berry
Time Sampled: 11:38 AM **Date Received:** 12/17/19
Time Batched: 11:04 AM **Time Placed:**
General Location: South Concrete Pavement Area
Sample Location: See Attached Location Diagram
Contractor: Wildcat Construction
Truck No.: 652 **Ticket No.:** 1092662
Weather: Sunny
Batch Size (yd³): 10.0 **Yd³ Placed:** 20.0

Specification:

		Measured	Specified
Slump (in):	ASTM C 143	3	
Slump w/ Plasticizer (in):			
Air Temp (°F):		56	
Concrete Temp (°F):	ASTM C 1064	73	
Air Content (%):	ASTM C 231	6.2	
Unit Weight (pcf):	ASTM C 138	141.8	
Water Added (gal)	**Before:** 8	**After:**	

Compressive Strength of Concrete Cylinders — ASTM C 39

Specimen ID	Date Tested	Age (Days)	Diameter (in)	Length (in)	Area (in²)	Type of Cap	Maximum Load (lbf)	Fracture Type / Remarks	Compressive Strength (psi)	Density (pcf)	Tested By
PEC-W23510-C1\1	12/20/19	7	4.00	8.00	12.57	U	44350	5	3530	142.3	JB2
PEC-W23510-C1\2	01/10/20	28	4.00	8.00	12.57	U	66450	5	5290	142.2	JB2
PEC-W23510-C1\3	01/10/20	28	4.00	8.00	12.57	U	67020	5	5330	141.6	JB2
PEC-W23510-C1\4	01/10/20	28	4.00	8.00	12.57	U	65690	5	5230	141.6	JB2
							Average 28 Day Compressive Strength (psi)		5280		
							Required Strength (psi)		4000		
PEC-W23510-C1\5		Hold	4.00	8.00	12.57	U				142.7	

Notes

1. Sampling to ASTM C 172
2. Specimen(s) prepared to ASTM C 31
3. Capping: B = Bonded ASTM C 617,U = Unbonded ASTM C 1231

Remarks

JB2 - John Ballinger
Fracture Type: 5 = Semi-Conical Break, 5 = Side fracture at top or bottom

PEC FIELD SERVICES

Located At 350 South Washington
Mailing Address 303 South Topeka
Wichita, KS 67202
(316) 262-6457 www.pec1.com

Concrete Test Report

Project No.:	**190907-000.01**
Report No.:	**CTR:PEC-W23510-C1-2**

Client : Wildcat Construction Co., Inc.
Project : Plant 1 Head Works Paving Testing
3100 S Grove
Wichita KS
Project Manager : Luke A Rogers

CC:
Nathan Adams, Tom Costello

Accreditation is granted by AAP and this accreditation is limited to the laboratory and the standards for which the laboratory is accredited. (#) indicates tests for which the lab is not accredited.

Date Issued: **1/10/2020**
Reviewed By: Brandon Kessler

Concrete Sample Location 12/13/2019

PEC FIELD SERVICES

Located At 350 South Washington
Mailing Address 303 South Topeka
Wichita, KS 67202
(316) 262-6457 www.pec1.com

Concrete Test Report

Project No.: 190907-000.01
Report No.: CTR:PEC-W23510-C1-2

Client : Wildcat Construction Co., Inc.
Project : Plant 1 Head Works Paving
Testing
3100 S Grove
Wichita KS
Project Manager : Luke A Rogers

CC: Nathan Adams, Tom Costello

Accreditation is granted by AAP and this accreditation is limited to the laboratory and the standards for which the laboratory is accredited. (#) indicates tests for which the lab is not accredited.

Date Issued: 1/10/2020
Reviewed By: Brandon Kessler

Mix Data

Supplier: CMC
Mix Identification: YE4010
Required Strength: 4000 at age 28 days

Material	Source	Amount	Moisture

Sample Details

Date Sampled: 12/13/19 **Sampled By:** Pat Berry
Time Sampled: 11:38 AM **Date Received:** 12/17/19
Time Batched: 11:04 AM **Time Placed:**
General Location: South Concrete Pavement Area
Sample Location: See Attached Location Diagram
Contractor: Wildcat Construction
Truck No.: 652 **Ticket No.:** 1092662
Weather: Sunny
Batch Size (yd³): 10.0 **Yd³ Placed:** 20.0

Specification:

		Measured	Specified
Slump (in):	ASTM C 143	3	
Slump w/ Plasticizer (in):			
Air Temp (°F):		56	
Concrete Temp (°F):	ASTM C 1064	73	
Air Content (%):	ASTM C 231	6.2	
Unit Weight (pcf):	ASTM C 138	141.8	
Water Added (gal)	**Before:** 8	**After:**	

Compressive Strength of Concrete Cylinders — ASTM C 39

Specimen ID	Date Tested	Age (Days)	Diameter (in)	Length (in)	Area (in²)	Type of Cap	Maximum Load (lbf)	Fracture Type / Remarks	Compressive Strength (psi)	Density (pcf)	Tested By
PEC-W23510-C1\1	12/20/19	7	4.00	8.00	12.57	U	44350	5	3530	142.3	JB2
PEC-W23510-C1\2	01/10/20	28	4.00	8.00	12.57	U	66450	5	5290	142.2	JB2
PEC-W23510-C1\3	01/10/20	28	4.00	8.00	12.57	U	67020	5	5330	141.6	JB2
PEC-W23510-C1\4	01/10/20	28	4.00	8.00	12.57	U	65690	5	5230	141.6	JB2
							Average 28 Day Compressive Strength (psi)		5280		
							Required Strength (psi)		4000		
PEC-W23510-C1\5		Hold	4.00	8.00	12.57	U				142.7	

Notes

1. Sampling to ASTM C 172
2. Specimen(s) prepared to ASTM C 31
3. Capping: B = Bonded ASTM C 617,U = Unbonded ASTM C 1231

Remarks

JB2 - John Ballinger
Fracture Type: 5 = Semi-Conical Break, 5 = Side fracture at top or bottom

PEC FIELD SERVICES

Located At 350 South Washington
Mailing Address 303 South Topeka
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(316) 262-6457 www.pec1.com

Concrete Test Report

Project No.:	**190907-000.01**
Report No.:	**CTR:PEC-W23510-C1-2**

Client : Wildcat Construction Co., Inc.
Project : Plant 1 Head Works Paving Testing
3100 S Grove
Wichita KS
Project Manager : Luke A Rogers

CC:
Nathan Adams, Tom Costello

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Date Issued: **1/10/2020**
Reviewed By: Brandon Kessler

Concrete Sample Location 12/13/2019

PEC FIELD SERVICES

Located At 350 South Washington
Mailing Address 303 South Topeka
Wichita, KS 67202
(316) 262-6457 www.pec1.com

Concrete Test Report

Project No.: 190907-000.01
Report No.: CTR:PEC-W23559-C1-1

Client : Wildcat Construction Co., Inc.
Project : Plant 1 Head Works Paving Testing
3100 S Grove
Wichita KS
Project Manager : Luke A Rogers

CC: Nathan Adams, Tom Costello

Accreditation is granted by AAP and this accreditation is limited to the laboratory and the standards for which the laboratory is accredited. (#) indicates tests for which the lab is not accredited.

Date Issued: 12/30/2019
Reviewed By: Luke Rogers

Mix Data

Supplier: CMC
Mix Identification: YE4010
Required Strength: 4000 at age 28 days

Material	Source	Amount	Moisture

Sample Details

Date Sampled: 12/19/19
Time Sampled: 8:35 AM
Time Batched:
Sampled By: Lupe Cardenas
Date Received: 12/24/19
Time Placed:
General Location: Concrete Pavement South of Building
Sample Location: See Attached Location Diagram
Contractor: Wildcat Construction
Truck No.: 660
Ticket No.: 1092789
Weather: Cold
Batch Size (yd³): 9.3
Yd³ Placed: 18.0

Specification:

		Measured	Specified
Slump (in):	ASTM C 143	4	
Slump w/ Plasticizer (in):			
Air Temp (°F):		30	
Concrete Temp (°F):	ASTM C 1064	69	
Air Content (%):	ASTM C 231	6.9	
Unit Weight (pcf):	ASTM C 138	137.6	
Water Added (gal)	**Before:**	**After:**	

Compressive Strength of Concrete Cylinders — ASTM C 39

Specimen ID	Date Tested	Age (Days)	Diameter (in)	Length (in)	Area (in²)	Type of Cap	Maximum Load (lbf)	Fracture Type / Remarks	Compressive Strength (psi)	Density (pcf)	Tested By
PEC-W23559-C1\1	12/27/19	8	4.00	8.00	12.57	U	59260	5	4720	139.7	JB2
PEC-W23559-C1\2	01/16/20	28	4.00	8.00	12.57	U				139.2	
PEC-W23559-C1\3	01/16/20	28	4.00	8.00	12.57	U				139.7	
PEC-W23559-C1\4	01/16/20	28	4.00	8.00	12.57	U				139.7	
							Average 28 Day Compressive Strength (psi)				
							Required Strength (psi)		4000		
PEC-W23559-C1\5		Hold	4.00	3.00	12.57	U				370.8	

Notes

1. Sampling to ASTM C 172
2. Specimen(s) prepared to ASTM C 31
3. Capping: B = Bonded ASTM C 617,U = Unbonded ASTM C 1231

Remarks

JB2 - John Ballinger
Fracture Type: 5 = Semi-Conical Break, 5 = Side fracture at top or bottom

Located At 350 South Washington
Mailing Address 303 South Topeka
Wichita, KS 67202
(316) 262-6457 www.pec1.com

Concrete Test Report

Project No.:	**190907-000.01**
Report No.:	**CTR:PEC-W23559-C1-1**

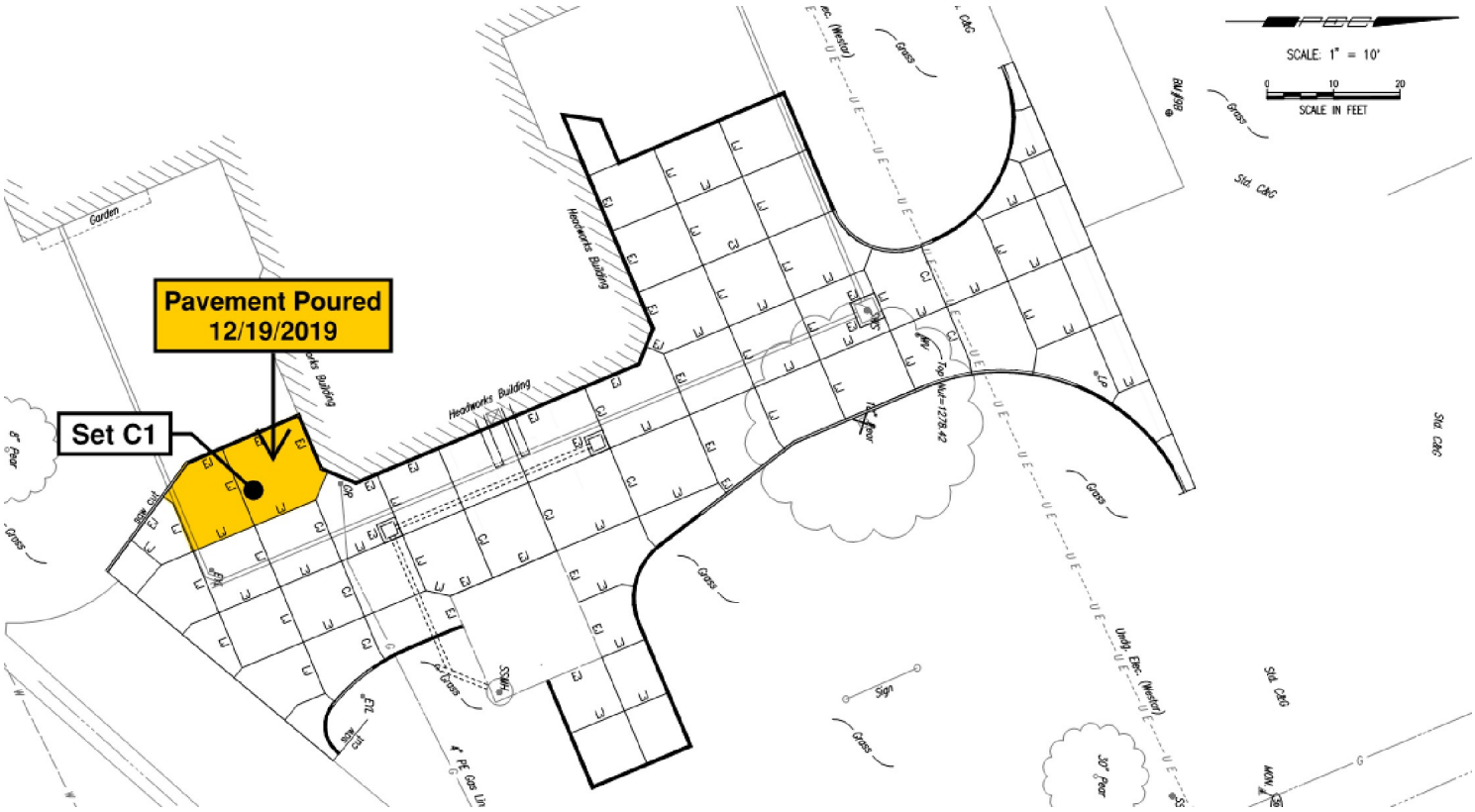
Client : Wildcat Construction Co., Inc.
Project : Plant 1 Head Works Paving Testing
3100 S Grove
Wichita KS
Project Manager : Luke A Rogers

CC:
Nathan Adams, Tom Costello

Accreditation is granted by AAP and this accreditation is limited to the laboratory and the standards for which the laboratory is accredited. (#) indicates tests for which the lab is not accredited.

Luke A Rogers

Date Issued: 12/30/2019
Reviewed By: Luke Rogers



Concrete Sample Location 12/19/2019

PEC FIELD SERVICES

Located At 350 South Washington
Mailing Address 303 South Topeka
Wichita, KS 67202
(316) 262-6457 www.pec1.com

Concrete Test Report

Project No.: 190907-000.01
Report No.: CTR:PEC-W23559-C1-2

Client : Wildcat Construction Co., Inc.
Project : Plant 1 Head Works Paving
Testing
3100 S Grove
Wichita KS
Project Manager : Luke A Rogers

CC: Nathan Adams, Tom Costello

Accreditation is granted by AAP and this accreditation is limited to the laboratory and the standards for which the laboratory is accredited. (#) indicates tests for which the lab is not accredited.

Date Issued: 1/16/2020
Reviewed By: Brandon Kessler

Mix Data

Supplier: CMC
Mix Identification: YE4010
Required Strength: 4000 at age 28 days

Material	Source	Amount	Moisture

Sample Details

Date Sampled: 12/19/19
Time Sampled: 8:35 AM
Time Batched:
General Location: Concrete Pavement South of Building
Sample Location: See Attached Location Diagram
Contractor: Wildcat Construction
Truck No.: 660
Weather: Cold
Batch Size (yd³): 9.3
Sampled By: Lupe Cardenas
Date Received: 12/24/19
Time Placed:
Ticket No.: 1092789
Yd³ Placed: 18.0

Specification:

		Measured	Specified
Slump (in):	ASTM C 143	4	
Slump w/ Plasticizer (in):			
Air Temp (°F):		30	
Concrete Temp (°F):	ASTM C 1064	69	
Air Content (%):	ASTM C 231	6.9	
Unit Weight (pcf):	ASTM C 138	137.6	
Water Added (gal)	**Before:**	**After:**	

Compressive Strength of Concrete Cylinders

ASTM C 39

Specimen ID	Date Tested	Age (Days)	Diameter (in)	Length (in)	Area (in²)	Type of Cap	Maximum Load (lbf)	Fracture Type / Remarks	Compressive Strength (psi)	Density (pcf)	Tested By
PEC-W23559-C1\1	12/27/19	8	4.00	8.00	12.57	U	59260	5	4720	139.7	JB2
PEC-W23559-C1\2	01/16/20	28	4.00	8.00	12.57	U	76460	5	6080	139.2	JB2
PEC-W23559-C1\3	01/16/20	28	4.00	8.00	12.57	U	72170	5	5740	139.7	JB2
PEC-W23559-C1\4	01/16/20	28	4.00	8.00	12.57	U	78780	5	6270	139.7	JB2
							Average 28 Day Compressive Strength (psi)		6030		
							Required Strength (psi)		4000		
PEC-W23559-C1\5		Hold	4.00	3.00	12.57	U				370.8	

Notes

1. Sampling to ASTM C 172
2. Specimen(s) prepared to ASTM C 31
3. Capping: B = Bonded ASTM C 617,U = Unbonded ASTM C 1231

Remarks

JB2 - John Ballinger
Fracture Type: 5 = Semi-Conical Break, 5 = Side fracture at top or bottom

Located At 350 South Washington
Mailing Address 303 South Topeka
Wichita, KS 67202
(316) 262-6457 www.pec1.com

Concrete Test Report

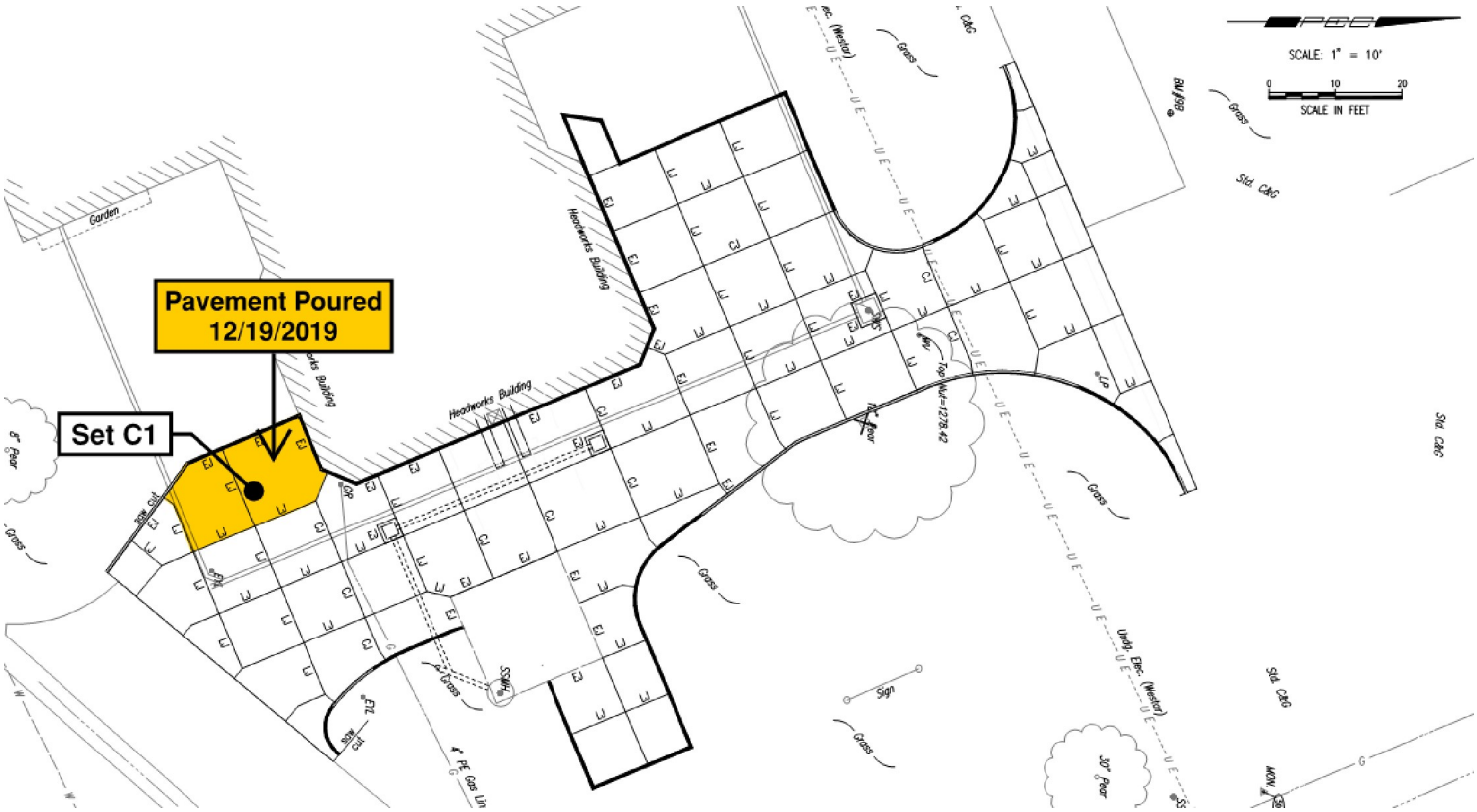
Project No.:	**190907-000.01**
Report No.:	**CTR:PEC-W23559-C1-2**

Client : Wildcat Construction Co., Inc.
Project : Plant 1 Head Works Paving Testing
3100 S Grove
Wichita KS
Project Manager : Luke A Rogers

CC:
Nathan Adams, Tom Costello

Accreditation is granted by AAP and this accreditation is limited to the laboratory and the standards for which the laboratory is accredited. (#) indicates tests for which the lab is not accredited.

Date Issued: 1/16/2020
Reviewed By: Brandon Kessler



Concrete Sample Location 12/19/2019

PEC FIELD SERVICES

Located At 350 South Washington
Mailing Address 303 South Topeka
Wichita, KS 67202
(316) 262-6457 www.pec1.com

Concrete Test Report

Project No.: 190907-000.01
Report No.: CTR:PEC-W23920-C1-1

Client : Wildcat Construction Co., Inc.
Project : Plant 1 Head Works Paving Testing
3100 S Grove
Wichita KS
Project Manager : Luke A Rogers

CC: Nathan Adams, Tom Costello

Accreditation is granted by AAP and this accreditation is limited to the laboratory and the standards for which the laboratory is accredited. (#) indicates tests for which the lab is not accredited.

Date Issued: 1/23/2020
Reviewed By: Brandon Kessler

Mix Data

Supplier: CMC
Mix Identification: XI4000
Required Strength: 4000 at age 28 days

Material	Source	Amount	Moisture

Sample Details

Date Sampled: 01/16/20 **Sampled By:** Jesus Rojas
Time Sampled: 9:35 AM **Date Received:** 01/17/20
Time Batched: 9:10 AM **Time Placed:**
General Location: Trench Patch Head Works Building Floor Slab
Sample Location: Middle of Trench
Contractor: Wildcat Construction
Truck No.: 503 **Ticket No.:** 14093541
Weather: Cold
Batch Size (yd³): 2.8 **Yd³ Placed:** 2.8

Specification:

		Measured	Specified
Slump (in):	ASTM C 143	4	
Slump w/ Plasticizer (in):			
Air Temp (°F):		65	
Concrete Temp (°F):	ASTM C 1064	60	
Air Content (%):	ASTM C 231	3.0	
Unit Weight (pcf):	ASTM C 138	144.9	
Water Added (gal)	**Before:**	**After:**	

Compressive Strength of Concrete Cylinders — ASTM C 39

Specimen ID	Date Tested	Age (Days)	Diameter (in)	Length (in)	Area (in²)	Type of Cap	Maximum Load (lbf)	Fracture Type / Remarks	Compressive Strength (psi)	Density (pcf)	Tested By
PEC-W23920-C1\1	01/23/20	7	4.00	8.00	12.57	U	57600	5	4580	145.1	JB2
PEC-W23920-C1\2	02/13/20	28	4.00	8.00	12.57	U				145.1	
PEC-W23920-C1\3	02/13/20	28	4.00	8.00	12.57	U				145.2	
PEC-W23920-C1\4	02/13/20	28	4.00	8.00	12.57	U				145.6	
									Average 28 Day Compressive Strength (psi)		
									Required Strength (psi) 4000		
PEC-W23920-C1\5		Hold	4.00	8.00	12.57	U				145.2	

Notes

1. Sampling to ASTM C 172
2. Specimen(s) prepared to ASTM C 31
3. Capping: B = Bonded ASTM C 617,U = Unbonded ASTM C 1231

Remarks

JB2 - John Ballinger
Fracture Type: 5 = Semi-Conical Break, 5 = Side fracture at top or bottom

PEC FIELD SERVICES

Located At 350 South Washington
Mailing Address 303 South Topeka
Wichita, KS 67202
(316) 262-6457 www.pec1.com

Concrete Test Report

Project No.: 190907-000.01
Report No.: CTR:PEC-W23920-C1-2

Client : Wildcat Construction Co., Inc.
Project : Plant 1 Head Works Paving Testing
3100 S Grove
Wichita KS
Project Manager : Luke A Rogers

CC: Alan Farrington, Tom Costello

Accreditation is granted by AAP and this accreditation is limited to the laboratory and the standards for which the laboratory is accredited. (#) indicates tests for which the lab is not accredited.

Date Issued: 2/13/2020
Reviewed By: Brandon Kessler

Mix Data

Supplier: CMC
Mix Identification: XI4000
Required Strength: 4000 at age 28 days

Material	Source	Amount	Moisture

Sample Details

Date Sampled: 01/16/20 **Sampled By:** Jesus Rojas
Time Sampled: 9:35 AM **Date Received:** 01/17/20
Time Batched: 9:10 AM **Time Placed:**
General Location: Trench Patch Head Works Building Floor Slab
Sample Location: Middle of Trench
Contractor: Wildcat Construction
Truck No.: 503 **Ticket No.:** 14093541
Weather: Cold
Batch Size (yd³): 2.8 **Yd³ Placed:** 2.8

Specification:

		Measured	Specified
Slump (in):	ASTM C 143	4	
Slump w/ Plasticizer (in):			
Air Temp (°F):		65	
Concrete Temp (°F):	ASTM C 1064	60	
Air Content (%):	ASTM C 231	3.0	
Unit Weight (pcf):	ASTM C 138	144.9	
Water Added (gal)	**Before:**	**After:**	

Compressive Strength of Concrete Cylinders — ASTM C 39

Specimen ID	Date Tested	Age (Days)	Diameter (in)	Length (in)	Area (in²)	Type of Cap	Maximum Load (lbf)	Fracture Type / Remarks	Compressive Strength (psi)	Density (pcf)	Tested By
PEC-W23920-C1\1	01/23/20	7	4.00	8.00	12.57	U	57600	5	4580	145.1	JB2
PEC-W23920-C1\2	02/13/20	28	4.00	8.00	12.57	U	76770	3	6110	145.1	PAY
PEC-W23920-C1\3	02/13/20	28	4.00	8.00	12.57	U	78130	3	6220	145.2	PAY
PEC-W23920-C1\4	02/13/20	28	4.00	8.00	12.57	U	80360	5	6390	145.6	PAY
								Average 28 Day Compressive Strength (psi)	6240		
								Required Strength (psi)	4000		
PEC-W23920-C1\5		Hold	4.00	8.00	12.57	U				145.2	

Notes

1. Sampling to ASTM C 172
2. Specimen(s) prepared to ASTM C 31
3. Capping: B = Bonded ASTM C 617,U = Unbonded ASTM C 1231

Remarks

JB2 - John Ballinger
PAY - Patrick Younkin
Fracture Type: 3 = C39: Vert cracking/no cones; C1314: Cone & Split, 3 = Columnar vertical cracking through both ends, no well formed cones, 5 = Semi-Conical Break, 5 = Side fracture at top or bottom

PEC FIELD SERVICES

Located At 350 South Washington
Mailing Address 303 South Topeka
Wichita, KS 67202
(316) 262-6457 www.pec1.com

Concrete Test Report

Project No.: 190907-000.01
Report No.: CTR:PEC-W23920-C1-1

Client : Wildcat Construction Co., Inc.
Project : Plant 1 Head Works Paving Testing
3100 S Grove
Wichita KS
Project Manager : Luke A Rogers

CC: Nathan Adams, Tom Costello

Accreditation is granted by AAP and this accreditation is limited to the laboratory and the standards for which the laboratory is accredited. (#) indicates tests for which the lab is not accredited.

Date Issued: 1/23/2020
Reviewed By: Brandon Kessler

Mix Data

Supplier: CMC
Mix Identification: XI4000
Required Strength: 4000 at age 28 days

Material	Source	Amount	Moisture

Sample Details

Date Sampled: 01/16/20 **Sampled By:** Jesus Rojas
Time Sampled: 9:35 AM **Date Received:** 01/17/20
Time Batched: 9:10 AM **Time Placed:**
General Location: Trench Patch Head Works Building Floor Slab
Sample Location: Middle of Trench
Contractor: Wildcat Construction
Truck No.: 503 **Ticket No.:** 14093541
Weather: Cold
Batch Size (yd³): 2.8 **Yd³ Placed:** 2.8

Specification:

		Measured	Specified
Slump (in):	ASTM C 143	4	
Slump w/ Plasticizer (in):			
Air Temp (°F):		65	
Concrete Temp (°F):	ASTM C 1064	60	
Air Content (%):	ASTM C 231	3.0	
Unit Weight (pcf):	ASTM C 138	144.9	
Water Added (gal)	**Before:**	**After:**	

Compressive Strength of Concrete Cylinders — ASTM C 39

Specimen ID	Date Tested	Age (Days)	Diameter (in)	Length (in)	Area (in²)	Type of Cap	Maximum Load (lbf)	Fracture Type / Remarks	Compressive Strength (psi)	Density (pcf)	Tested By
PEC-W23920-C1\1	01/23/20	7	4.00	8.00	12.57	U	57600	5	4580	145.1	JB2
PEC-W23920-C1\2	02/13/20	28	4.00	8.00	12.57	U				145.1	
PEC-W23920-C1\3	02/13/20	28	4.00	8.00	12.57	U				145.2	
PEC-W23920-C1\4	02/13/20	28	4.00	8.00	12.57	U				145.6	
									Average 28 Day Compressive Strength (psi)		
									Required Strength (psi) 4000		
PEC-W23920-C1\5		Hold	4.00	8.00	12.57	U				145.2	

Notes

1. Sampling to ASTM C 172
2. Specimen(s) prepared to ASTM C 31
3. Capping: B = Bonded ASTM C 617,U = Unbonded ASTM C 1231

Remarks

JB2 - John Ballinger
Fracture Type: 5 = Semi-Conical Break, 5 = Side fracture at top or bottom

PEC FIELD SERVICES

Located At 350 South Washington
Mailing Address 303 South Topeka
Wichita, KS 67202
(316) 262-6457 www.pec1.com

Concrete Test Report

Project No.: 190907-000.01
Report No.: CTR:PEC-W24314-C1-1

Client : Wildcat Construction Co., Inc.
Project : Plant 1 Head Works Paving Testing
3100 S Grove
Wichita KS
Project Manager : Luke A Rogers

CC: Alan Farrington, Tom Costello

Accreditation is granted by AAP and this accreditation is limited to the laboratory and the standards for which the laboratory is accredited. (#) indicates tests for which the lab is not accredited.

Date Issued: 2/20/2020
Reviewed By: Brandon Kessler

Mix Data

Supplier: CMC
Mix Identification: XI4000
Required Strength: 4000 at age 28 days

Material	Source	Amount	Moisture

Sample Details

Date Sampled: 02/13/20 **Sampled By:** Jesus Rojas
Time Sampled: 12:35 PM **Date Received:** 02/14/20
Time Batched: 12:15 PM **Time Placed:**
General Location: Slab Patch - Inside Head Works Building
Sample Location: Floor Patch East Side of Bar Screens
Contractor: Wildcat Construction
Truck No.: 510 **Ticket No.:** 1094212
Weather: Sunny/Cold
Batch Size (yd³): 1.3 **Yd³ Placed:** 1.3

Specification:

		Measured	Specified
Slump (in):	ASTM C 143	1.5	
Slump w/ Plasticizer (in):			
Air Temp (°F):		15	
Concrete Temp (°F):	ASTM C 1064	55	
Air Content (%):	ASTM C 231	2.0	
Unit Weight (pcf):	ASTM C 138	146.5	
Water Added (gal)	**Before:** 3	**After:**	

Compressive Strength of Concrete Cylinders — ASTM C 39

Specimen ID	Date Tested	Age (Days)	Diameter (in)	Length (in)	Area (in²)	Type of Cap	Maximum Load (lbf)	Fracture Type / Remarks	Compressive Strength (psi)	Density (pcf)	Tested By
PEC-W24314-C1\1	02/20/20	7	4.00	8.00	12.57	U	71290	2	5670	148.2	PAY
PEC-W24314-C1\2	03/12/20	28	4.00	8.00	12.57	U				147.5	
PEC-W24314-C1\3	03/12/20	28	4.00	8.00	12.57	U				147.3	
PEC-W24314-C1\4	03/12/20	28	4.00	8.00	12.57	U				147.3	
								Average 28 Day Compressive Strength (psi)			
								Required Strength (psi)	4000		
PEC-W24314-C1\5		Hold	4.00	8.00	12.57	U				147.1	

Notes

1. Sampling to ASTM C 172
2. Specimen(s) prepared to ASTM C 31
3. Capping: B = Bonded ASTM C 617,U = Unbonded ASTM C 1231

Remarks

PAY - Patrick Younkin
Fracture Type: 2 = Cone & Shear, 2 = Well formed cone on one end, vertical cracks running through caps

PEC FIELD SERVICES

Located At 350 South Washington
Mailing Address 303 South Topeka
Wichita, KS 67202
(316) 262-6457 www.pec1.com

Concrete Test Report

Project No.: 190907-000.01
Report No.: CTR:PEC-W24314-C1-2

Client : Wildcat Construction Co., Inc.
Project : Plant 1 Head Works Paving
Testing
3100 S Grove
Wichita KS
Project Manager : Luke A Rogers

CC: Alan Farrington, Tom Costello

Accreditation is granted by AAP and this accreditation is limited to the laboratory and the standards for which the laboratory is accredited. (#) indicates tests for which the lab is not accredited.

Date Issued: 3/12/2020
Reviewed By: Brandon Kessler

Mix Data

Supplier: CMC
Mix Identification: XI4000
Required Strength: 4000 at age 28 days

Material	Source	Amount	Moisture

Sample Details

Date Sampled: 02/13/20 **Sampled By:** Jesus Rojas
Time Sampled: 12:35 PM **Date Received:** 02/14/20
Time Batched: 12:15 PM **Time Placed:**
General Location: Slab Patch - Inside Head Works Building
Sample Location: Floor Patch East Side of Bar Screens
Contractor: Wildcat Construction
Truck No.: 510 **Ticket No.:** 1094212
Weather: Sunny/Cold
Batch Size (yd³): 1.3 **Yd³ Placed:** 1.3

Specification:

		Measured	Specified
Slump (in):	ASTM C 143	1.5	
Slump w/ Plasticizer (in):			
Air Temp (°F):		15	
Concrete Temp (°F):	ASTM C 1064	55	
Air Content (%):	ASTM C 231	2.0	
Unit Weight (pcf):	ASTM C 138	146.5	
Water Added (gal)	**Before:** 3	**After:**	

Compressive Strength of Concrete Cylinders — ASTM C 39

Specimen ID	Date Tested	Age (Days)	Diameter (in)	Length (in)	Area (in²)	Type of Cap	Maximum Load (lbf)	Fracture Type / Remarks	Compressive Strength (psi)	Density (pcf)	Tested By
PEC-W24314-C1\1	02/20/20	7	4.00	8.00	12.57	U	71290	2	5670	148.2	PAY
PEC-W24314-C1\2	03/12/20	28	4.00	8.00	12.57	U	93490	5	7440	147.5	PAY
PEC-W24314-C1\3	03/12/20	28	4.00	8.00	12.57	U	92380	2	7350	147.3	PAY
PEC-W24314-C1\4	03/12/20	28	4.00	8.00	12.57	U	93470	5	7440	147.3	PAY
							Average 28 Day Compressive Strength (psi)		7410		
							Required Strength (psi)		4000		
PEC-W24314-C1\5		Hold	4.00	8.00	12.57	U				147.1	

Notes

1. Sampling to ASTM C 172
2. Specimen(s) prepared to ASTM C 31
3. Capping: B = Bonded ASTM C 617,U = Unbonded ASTM C 1231

Remarks

PAY - Patrick Younkin
Fracture Type: 2 = Cone & Shear, 2 = Well formed cone on one end, vertical cracks running through caps, 5 = Semi-Conical Break, 5 = Side fracture at top or bottom

PEC FIELD SERVICES

Located At 350 South Washington
Mailing Address 303 South Topeka
Wichita, KS 67202
(316) 262-6457 www.pec1.com

Concrete Test Report

Project No.: 190907-000.01
Report No.: CTR:PEC-W24314-C1-2

Client : Wildcat Construction Co., Inc.
Project : Plant 1 Head Works Paving
Testing
3100 S Grove
Wichita KS
Project Manager : Luke A Rogers

CC: Alan Farrington, Tom Costello

Accreditation is granted by AAP and this accreditation is limited to the laboratory and the standards for which the laboratory is accredited. (#) indicates tests for which the lab is not accredited.

Date Issued: 3/12/2020
Reviewed By: Brandon Kessler

Mix Data

Supplier: CMC
Mix Identification: XI4000
Required Strength: 4000 at age 28 days

Material	Source	Amount	Moisture

Sample Details

Date Sampled: 02/13/20 **Sampled By:** Jesus Rojas
Time Sampled: 12:35 PM **Date Received:** 02/14/20
Time Batched: 12:15 PM **Time Placed:**
General Location: Slab Patch - Inside Head Works Building
Sample Location: Floor Patch East Side of Bar Screens
Contractor: Wildcat Construction
Truck No.: 510 **Ticket No.:** 1094212
Weather: Sunny/Cold
Batch Size (yd³): 1.3 **Yd³ Placed:** 1.3

Specification:

		Measured	Specified
Slump (in):	ASTM C 143	1.5	
Slump w/ Plasticizer (in):			
Air Temp (°F):		15	
Concrete Temp (°F):	ASTM C 1064	55	
Air Content (%):	ASTM C 231	2.0	
Unit Weight (pcf):	ASTM C 138	146.5	
Water Added (gal)	**Before:** 3	**After:**	

Compressive Strength of Concrete Cylinders — ASTM C 39

Specimen ID	Date Tested	Age (Days)	Diameter (in)	Length (in)	Area (in²)	Type of Cap	Maximum Load (lbf)	Fracture Type / Remarks	Compressive Strength (psi)	Density (pcf)	Tested By
PEC-W24314-C1\1	02/20/20	7	4.00	8.00	12.57	U	71290	2	5670	148.2	PAY
PEC-W24314-C1\2	03/12/20	28	4.00	8.00	12.57	U	93490	5	7440	147.5	PAY
PEC-W24314-C1\3	03/12/20	28	4.00	8.00	12.57	U	92380	2	7350	147.3	PAY
PEC-W24314-C1\4	03/12/20	28	4.00	8.00	12.57	U	93470	5	7440	147.3	PAY
							Average 28 Day Compressive Strength (psi)		7410		
							Required Strength (psi)		4000		
PEC-W24314-C1\5		Hold	4.00	8.00	12.57	U				147.1	

Notes

1. Sampling to ASTM C 172
2. Specimen(s) prepared to ASTM C 31
3. Capping: B = Bonded ASTM C 617,U = Unbonded ASTM C 1231

Remarks

PAY - Patrick Younkin
Fracture Type: 2 = Cone & Shear, 2 = Well formed cone on one end, vertical cracks running through caps, 5 = Semi-Conical Break, 5 = Side fracture at top or bottom

PEC FIELD SERVICES

Located At 350 South Washington
Mailing Address 303 South Topeka
Wichita, KS 67202
(316) 262-6457 www.pec1.com

Concrete Test Report

Project No.: 190907-000.01
Report No.: CTR:PEC-W25011-C1-1

Client : Wildcat Construction Co., Inc.
Project : Plant 1 Head Works Paving Testing
3100 S Grove
Wichita KS
Project Manager : Luke A Rogers

CC: Alan Farrington, Tom Costello

Accreditation is granted by AAP and this accreditation is limited to the laboratory and the standards for which the laboratory is accredited. (#) indicates tests for which the lab is not accredited.

Date Issued: 4/14/2020
Reviewed By: Luke Rogers

Mix Data

Supplier: CMC
Required Strength: 4000 at age 28 days

Material	Source	Amount	Moisture

Sample Details

Date Sampled: 04/07/20
Sampled By: Corey Aurell
Time Sampled: 11:58 AM
Date Received: 04/08/20
Time Batched:
Time Placed:
General Location: Interior Patch
Sample Location: Interior Patch
Contractor: Wildcat Construction
Truck No.: 543
Ticket No.:
Weather: Partly cloudy
Batch Size (yd³): 1.5
Yd³ Placed: 1.5

Specification:

		Measured	Specified
Slump (in):	ASTM C 143	4.25	
Slump w/ Plasticizer (in):			
Air Temp (°F):		70	
Concrete Temp (°F):	ASTM C 1064	69	
Air Content (%):	ASTM C 231	2.0	
Unit Weight (pcf):	ASTM C 138	146.4	
Water Added (gal)	**Before:**	**After:**	

Compressive Strength of Concrete Cylinders — ASTM C 39

Specimen ID	Date Tested	Age (Days)	Diameter (in)	Length (in)	Area (in²)	Type of Cap	Maximum Load (lbf)	Fracture Type / Remarks	Compressive Strength (psi)	Density (pcf)	Tested By
PEC-W25011-C1\1	04/14/20	7	4.00	8.00	12.57	U	48530	5	3860	145.1	JB2
PEC-W25011-C1\2	05/05/20	28	4.00	8.00	12.57	U				145.2	
PEC-W25011-C1\3	05/05/20	28	4.00	8.00	12.57	U				145.4	
PEC-W25011-C1\4	05/05/20	28	4.00	8.00	12.57	U				145.4	
							Average 28 Day Compressive Strength (psi)				
							Required Strength (psi)		4000		
PEC-W25011-C1\5		Hold	4.00	8.00	12.57	U				145.1	

Notes

1. Sampling to ASTM C 172
2. Specimen(s) prepared to ASTM C 31
3. Capping: B = Bonded ASTM C 617,U = Unbonded ASTM C 1231

Remarks

JB2 - John Ballinger
Fracture Type: 5 = Semi-Conical Break, 5 = Side fracture at top or bottom

PEC FIELD SERVICES

Located At 350 South Washington
Mailing Address 303 South Topeka
Wichita, KS 67202
(316) 262-6457 www.pec1.com

Concrete Test Report

Project No.: 190907-000.01
Report No.: CTR:PEC-W25011-C1-2

Client : Wildcat Construction Co., Inc.
Project : Plant 1 Head Works Paving Testing
3100 S Grove
Wichita KS
Project Manager : Luke A Rogers

CC: Alan Farrington, Tom Costello

Accreditation is granted by AAP and this accreditation is limited to the laboratory and the standards for which the laboratory is accredited. (#) indicates tests for which the lab is not accredited.

Date Issued: 5/5/2020
Reviewed By: Brandon Kessler

Mix Data

Supplier: CMC
Required Strength: 4000 at age 28 days

Material	Source	Amount	Moisture

Sample Details

Date Sampled: 04/07/20
Sampled By: Corey Aurell
Time Sampled: 11:58 AM
Date Received: 04/08/20
Time Batched:
Time Placed:
General Location: Interior Patch
Sample Location: Interior Patch
Contractor: Wildcat Construction
Truck No.: 543
Ticket No.:
Weather: Partly cloudy
Batch Size (yd³): 1.5
Yd³ Placed: 1.5

Specification:

		Measured	Specified
Slump (in):	ASTM C 143	4.25	
Slump w/ Plasticizer (in):			
Air Temp (°F):		70	
Concrete Temp (°F):	ASTM C 1064	69	
Air Content (%):	ASTM C 231	2.0	
Unit Weight (pcf):	ASTM C 138	146.4	
Water Added (gal)	**Before:**	**After:**	

Compressive Strength of Concrete Cylinders

ASTM C 39

Specimen ID	Date Tested	Age (Days)	Diameter (in)	Length (in)	Area (in²)	Type of Cap	Maximum Load (lbf)	Fracture Type / Remarks	Compressive Strength (psi)	Density (pcf)	Tested By
PEC-W25011-C1\1	04/14/20	7	4.00	8.00	12.57	U	48530	5	3860	145.1	JB2
PEC-W25011-C1\2	05/05/20	28	4.00	8.00	12.57	U	61320	5	4880	145.2	JB2
PEC-W25011-C1\3	05/05/20	28	4.00	8.00	12.57	U	62250	5	4950	145.4	JB2
PEC-W25011-C1\4	05/05/20	28	4.00	8.00	12.57	U	62150	5	4950	145.4	JB2
							Average 28 Day Compressive Strength (psi)		4930		
							Required Strength (psi)		4000		
PEC-W25011-C1\5		Hold	4.00	8.00	12.57	U				145.1	

Notes

1. Sampling to ASTM C 172
2. Specimen(s) prepared to ASTM C 31
3. Capping: B = Bonded ASTM C 617,U = Unbonded ASTM C 1231

Remarks

JB2 - John Ballinger
Fracture Type: 5 = Semi-Conical Break, 5 = Side fracture at top or bottom

PEC FIELD SERVICES

Located At 350 South Washington
Mailing Address 303 South Topeka
Wichita, KS 67202
(316) 262-6457 www.pec1.com

Concrete Test Report

Project No.: 190907-000.01
Report No.: CTR:PEC-W25780-C1-1

Client : Wildcat Construction Co., Inc.
Project : Plant 1 Head Works Paving Testing
3100 S Grove
Wichita KS
Project Manager : Luke A Rogers

CC: Alan Farrington, Tom Costello

Accreditation is granted by AAP and this accreditation is limited to the laboratory and the standards for which the laboratory is accredited. (#) indicates tests for which the lab is not accredited.

Date Issued: 6/5/2020
Reviewed By: Luke Rogers

Mix Data

Supplier: CMC
Mix Identification: XI4000
Required Strength: 4000 at age 28 days

Material	Source	Amount	Moisture

Sample Details

Date Sampled: 05/29/20
Time Sampled: 11:45 AM
Time Batched: 10:35 AM
General Location: WWTP
Sample Location: Inside Trench
Contractor: Wildcat Construction
Truck No.: 669
Weather: hot
Batch Size (yd³): 4.0
Sampled By: Lupe Cardenas
Date Received: 06/01/20
Time Placed:
Ticket No.: 1098786
Yd³ Placed: 4.0

Specification:

		Measured	Specified
Slump (in):	ASTM C 143	5	
Slump w/ Plasticizer (in):			
Air Temp (°F):		76	
Concrete Temp (°F):	ASTM C 1064	72	
Air Content (%):	ASTM C 231	1.8	
Unit Weight (pcf):	ASTM C 138	142.0	
Water Added (gal)	**Before:**	**After:**	

Compressive Strength of Concrete Cylinders — ASTM C 39

Specimen ID	Date Tested	Age (Days)	Diameter (in)	Length (in)	Area (in²)	Type of Cap	Maximum Load (lbf)	Fracture Type / Remarks	Compressive Strength (psi)	Density (pcf)	Tested By
PEC-W25780-C1\1	06/05/20	7	4.00	8.00	12.57	U	53910	5	4290	146.8	JB2
PEC-W25780-C1\2	06/26/20	28	4.00	8.00	12.57	U				146.8	
PEC-W25780-C1\3	06/26/20	28	4.00	8.00	12.57	U				146.6	
PEC-W25780-C1\4	06/26/20	28	4.00	8.00	12.57	U				145.9	
								Average 28 Day Compressive Strength (psi)			
								Required Strength (psi)	4000		
PEC-W25780-C1\5		Hold	4.00	8.00	12.57	U				146.8	

Notes

1. Sampling to ASTM C 172
2. Specimen(s) prepared to ASTM C 31
3. Capping: B = Bonded ASTM C 617,U = Unbonded ASTM C 1231

Remarks

JB2 - John Ballinger
Fracture Type: 5 = Semi-Conical Break, 5 = Side fracture at top or bottom

PEC FIELD SERVICES

Located At 350 South Washington
Mailing Address 303 South Topeka
Wichita, KS 67202
(316) 262-6457 www.pec1.com

Concrete Test Report

Project No.: 190907-000.01
Report No.: CTR:PEC-W25780-C1-2

Client : Wildcat Construction Co., Inc.
Project : Plant 1 Head Works Paving Testing
3100 S Grove
Wichita KS
Project Manager : Luke A Rogers

CC: Alan Farrington, Tom Costello

Accreditation is granted by AAP and this accreditation is limited to the laboratory and the standards for which the laboratory is accredited. (#) indicates tests for which the lab is not accredited.

Luke A Rogers

Date Issued: 6/26/2020
Reviewed By: Luke Rogers

Mix Data

Supplier: CMC
Mix Identification: XI4000
Required Strength: 4000 at age 28 days

Material	Source	Amount	Moisture

Sample Details

Date Sampled: 05/29/20
Time Sampled: 11:45 AM
Time Batched: 10:35 AM
General Location: WWTP
Sample Location: Inside Trench
Contractor: Wildcat Construction
Truck No.: 669
Weather: hot
Batch Size (yd³): 4.0
Sampled By: Lupe Cardenas
Date Received: 06/01/20
Time Placed:
Ticket No.: 1098786
Yd³ Placed: 4.0

Specification:

		Measured	Specified
Slump (in):	ASTM C 143	5	
Slump w/ Plasticizer (in):			
Air Temp (°F):		76	
Concrete Temp (°F):	ASTM C 1064	72	
Air Content (%):	ASTM C 231	1.8	
Unit Weight (pcf):	ASTM C 138	142.0	
Water Added (gal)	**Before:**	**After:**	

Compressive Strength of Concrete Cylinders — ASTM C 39

Specimen ID	Date Tested	Age (Days)	Diameter (in)	Length (in)	Area (in²)	Type of Cap	Maximum Load (lbf)	Fracture Type / Remarks	Compressive Strength (psi)	Density (pcf)	Tested By
PEC-W25780-C1\1	06/05/20	7	4.00	8.00	12.57	U	53910	5	4290	146.8	JB2
PEC-W25780-C1\2	06/26/20	28	4.00	8.00	12.57	U	67080	5	5340	146.8	
PEC-W25780-C1\3	06/26/20	28	4.00	8.00	12.57	U	68390	5	5440	146.6	
PEC-W25780-C1\4	06/26/20	28	4.00	8.00	12.57	U	63210	5	5030	145.9	
							Average 28 Day Compressive Strength (psi)		5270		
							Required Strength (psi)		4000		
PEC-W25780-C1\5		Hold	4.00	8.00	12.57	U				146.8	

Notes

1. Sampling to ASTM C 172
2. Specimen(s) prepared to ASTM C 31
3. Capping: B = Bonded ASTM C 617,U = Unbonded ASTM C 1231

Remarks

JB2 - John Ballinger
Fracture Type: 5 = Semi-Conical Break, 5 = Side fracture at top or bottom

PEC FIELD SERVICES

Located At 350 South Washington
Mailing Address 303 South Topeka
Wichita, KS 67202
(316) 262-6457 www.pec1.com

Concrete Test Report

Project No.: 190907-000.01
Report No.: CTR:PEC-W25780-C1-1

Client : Wildcat Construction Co., Inc.
Project : Plant 1 Head Works Paving Testing
3100 S Grove
Wichita KS
Project Manager : Luke A Rogers

CC: Alan Farrington, Tom Costello

Accreditation is granted by AAP and this accreditation is limited to the laboratory and the standards for which the laboratory is accredited. (#) indicates tests for which the lab is not accredited.

Date Issued: 6/5/2020
Reviewed By: Luke Rogers

Mix Data

Supplier: CMC
Mix Identification: XI4000
Required Strength: 4000 at age 28 days

Material	Source	Amount	Moisture

Sample Details

Date Sampled: 05/29/20
Time Sampled: 11:45 AM
Time Batched: 10:35 AM
General Location: WWTP
Sample Location: Inside Trench
Contractor: Wildcat Construction
Truck No.: 669
Weather: hot
Batch Size (yd³): 4.0
Sampled By: Lupe Cardenas
Date Received: 06/01/20
Time Placed:
Ticket No.: 1098786
Yd³ Placed: 4.0

Specification:

		Measured	Specified
Slump (in):	ASTM C 143	5	
Slump w/ Plasticizer (in):			
Air Temp (°F):		76	
Concrete Temp (°F):	ASTM C 1064	72	
Air Content (%):	ASTM C 231	1.8	
Unit Weight (pcf):	ASTM C 138	142.0	
Water Added (gal)	**Before:**	**After:**	

Compressive Strength of Concrete Cylinders — ASTM C 39

Specimen ID	Date Tested	Age (Days)	Diameter (in)	Length (in)	Area (in²)	Type of Cap	Maximum Load (lbf)	Fracture Type / Remarks	Compressive Strength (psi)	Density (pcf)	Tested By
PEC-W25780-C1\1	06/05/20	7	4.00	8.00	12.57	U	53910	5	4290	146.8	JB2
PEC-W25780-C1\2	06/26/20	28	4.00	8.00	12.57	U				146.8	
PEC-W25780-C1\3	06/26/20	28	4.00	8.00	12.57	U				146.6	
PEC-W25780-C1\4	06/26/20	28	4.00	8.00	12.57	U				145.9	
								Average 28 Day Compressive Strength (psi)			
								Required Strength (psi)	4000		
PEC-W25780-C1\5		Hold	4.00	8.00	12.57	U				146.8	

Notes

1. Sampling to ASTM C 172
2. Specimen(s) prepared to ASTM C 31
3. Capping: B = Bonded ASTM C 617,U = Unbonded ASTM C 1231

Remarks

JB2 - John Ballinger
Fracture Type: 5 = Semi-Conical Break, 5 = Side fracture at top or bottom

PEC FIELD SERVICES

Located At 350 South Washington
Mailing Address 303 South Topeka
Wichita, KS 67202
(316) 262-6457 www.pec1.com

Concrete Test Report

Project No.: 190907-000.01
Report No.: CTR:PEC-W25780-C1-2

Client : Wildcat Construction Co., Inc.
Project : Plant 1 Head Works Paving Testing
3100 S Grove
Wichita KS
Project Manager : Luke A Rogers

CC: Alan Farrington, Tom Costello

Accreditation is granted by AAP and this accreditation is limited to the laboratory and the standards for which the laboratory is accredited. (#) indicates tests for which the lab is not accredited.

Luke A Rogers

Date Issued: 6/26/2020
Reviewed By: Luke Rogers

Mix Data

Supplier: CMC
Mix Identification: XI4000
Required Strength: 4000 at age 28 days

Material	Source	Amount	Moisture

Sample Details

Date Sampled: 05/29/20
Time Sampled: 11:45 AM
Time Batched: 10:35 AM
General Location: WWTP
Sample Location: Inside Trench
Contractor: Wildcat Construction
Truck No.: 669
Weather: hot
Batch Size (yd³): 4.0
Sampled By: Lupe Cardenas
Date Received: 06/01/20
Time Placed:
Ticket No.: 1098786
Yd³ Placed: 4.0

Specification:

		Measured	Specified
Slump (in):	ASTM C 143	5	
Slump w/ Plasticizer (in):			
Air Temp (°F):		76	
Concrete Temp (°F):	ASTM C 1064	72	
Air Content (%):	ASTM C 231	1.8	
Unit Weight (pcf):	ASTM C 138	142.0	
Water Added (gal)	**Before:**	**After:**	

Compressive Strength of Concrete Cylinders — ASTM C 39

Specimen ID	Date Tested	Age (Days)	Diameter (in)	Length (in)	Area (in²)	Type of Cap	Maximum Load (lbf)	Fracture Type / Remarks	Compressive Strength (psi)	Density (pcf)	Tested By
PEC-W25780-C1\1	06/05/20	7	4.00	8.00	12.57	U	53910	5	4290	146.8	JB2
PEC-W25780-C1\2	06/26/20	28	4.00	8.00	12.57	U	67080	5	5340	146.8	
PEC-W25780-C1\3	06/26/20	28	4.00	8.00	12.57	U	68390	5	5440	146.6	
PEC-W25780-C1\4	06/26/20	28	4.00	8.00	12.57	U	63210	5	5030	145.9	
							Average 28 Day Compressive Strength (psi)		5270		
							Required Strength (psi)		4000		
PEC-W25780-C1\5		Hold	4.00	8.00	12.57	U				146.8	

Notes

1. Sampling to ASTM C 172
2. Specimen(s) prepared to ASTM C 31
3. Capping: B = Bonded ASTM C 617,U = Unbonded ASTM C 1231

Remarks

JB2 - John Ballinger
Fracture Type: 5 = Semi-Conical Break, 5 = Side fracture at top or bottom

Located At 350 South Washington
Mailing Address 303 South Topeka
Wichita, KS 67202
(316) 262-6457 www.pec1.com

Concrete Test Report

Project No.: 190907-000.01
Report No.: CTR:PEC-W26440-C1-1

Client : Wildcat Construction Co., Inc.
Project : Plant 1 Head Works Paving
Testing
3100 S Grove
Wichita KS
Project Manager : Luke A Rogers

CC: Alan Farrington, Tom Costello

Accreditation is granted by AAP and this accreditation is limited to the laboratory and the standards for which the laboratory is accredited. (#) indicates tests for which the lab is not accredited.

Date Issued: 7/16/2020
Reviewed By: Brandon Kessler

Mix Data

Supplier: CMC
Mix Identification: XI 4503
Required Strength: 4000 at age 28 days

Material	Source	Amount	Moisture

Sample Details

Date Sampled: 07/10/20
Time Sampled: 9:00 AM
Time Batched: 8:27 AM
General Location: Plant # 1
Sample Location: North Floor Patch
Contractor: Wildcat Construction
Truck No.: 590
Weather: Cloudy/Rainy
Batch Size (yd³): 1.5
Sampled By: Lupe Cardenas
Date Received:
Time Placed:
Ticket No.: 1100137
Yd³ Placed: 1.5

Specification:

		Measured	Specified
Slump (in):	ASTM C 143	6	
Slump w/ Plasticizer (in):			
Air Temp (°F):		72	
Concrete Temp (°F):	ASTM C 1064	76	
Air Content (%):	ASTM C 231	2.3	
Unit Weight (pcf):	ASTM C 138	147.0	
Water Added (gal)	**Before:**	**After:**	

Compressive Strength of Concrete Cylinders

ASTM C 39

Specimen ID	Date Tested	Age (Days)	Diameter (in)	Length (in)	Area (in²)	Type of Cap	Maximum Load (lbf)	Fracture Type / Remarks	Compressive Strength (psi)	Density (pcf)	Tested By
PEC-W26440-C1\1	07/16/20	6	4.00	8.00	12.57	U	46080	5	3670	141.8	JB2
PEC-W26440-C1\2	07/17/20	7	4.00	8.00	12.57	U				141.6	
PEC-W26440-C1\3	08/07/20	28	4.00	8.00	12.57	U				141.8	
PEC-W26440-C1\4	08/07/20	28	4.00	8.00	12.57	U				141.1	
PEC-W26440-C1\5	08/07/20	28	4.00	8.00	12.57	U				142.0	
							Average 28 Day Compressive Strength (psi)				
							Required Strength (psi)		4000		
PEC-W26440-C1\6	11/25/47	9999	4.00	8.00	12.57	U				142.0	

Notes

1. Sampling to ASTM C 172
2. Specimen(s) prepared to ASTM C 31
3. Capping: B = Bonded ASTM C 617,U = Unbonded ASTM C 1231

Remarks

JB2 - John Ballinger
Fracture Type: 5 = Semi-Conical Break, 5 = Side fracture at top or bottom

PEC FIELD SERVICES

Located At 350 South Washington
Mailing Address 303 South Topeka
Wichita, KS 67202
(316) 262-6457 www.pec1.com

Concrete Test Report

Project No.: 190907-000.01
Report No.: CTR:PEC-W26440-C1-2

Client : Wildcat Construction Co., Inc.
Project : Plant 1 Head Works Paving
Testing
3100 S Grove
Wichita KS
Project Manager : Luke A Rogers

CC: Alan Farrington, Tom Costello

Accreditation is granted by AAP and this accreditation is limited to the laboratory and the standards for which the laboratory is accredited. (#) indicates tests for which the lab is not accredited.

Date Issued: 7/17/2020
Reviewed By: Brandon Kessler

Mix Data

Supplier: CMC
Mix Identification: XI 4503
Required Strength: 4000 at age 28 days

Material	Source	Amount	Moisture

Sample Details

Date Sampled: 07/10/20
Time Sampled: 8:27 AM
Time Batched: 8:27 AM
General Location: Plant # 1
Sample Location: North Floor Patch
Contractor: Wildcat Construction
Truck No.: 590
Weather: Cloudy/Rainy
Batch Size (yd³): 1.5
Sampled By: Juan Solorzano
Date Received:
Time Placed:
Ticket No.: 1100137
Yd³ Placed: 1.5

Specification:

		Measured	Specified
Slump (in):	ASTM C 143	6	
Slump w/ Plasticizer (in):			
Air Temp (°F):		72	
Concrete Temp (°F):	ASTM C 1064	76	
Air Content (%):	ASTM C 231	2.3	
Unit Weight (pcf):	ASTM C 138	147.0	
Water Added (gal)	**Before:**	**After:**	

Compressive Strength of Concrete Cylinders — ASTM C 39

Specimen ID	Date Tested	Age (Days)	Diameter (in)	Length (in)	Area (in²)	Type of Cap	Maximum Load (lbf)	Fracture Type / Remarks	Compressive Strength (psi)	Density (pcf)	Tested By
PEC-W26440-C1\1	07/17/20	7	4.00	8.00	12.57	U	40140	5	3190	146.8	JB2
PEC-W26440-C1\2	08/07/20	28	4.00	8.00	12.57	U				146.4	
PEC-W26440-C1\3	08/07/20	28	4.00	8.00	12.57	U				146.6	
PEC-W26440-C1\4	08/07/20	28	4.00	8.00	12.57	U				144.7	
							Average 28 Day Compressive Strength (psi)				
							Required Strength (psi)		4000		
PEC-W26440-C1\5		Hold	4.00	8.00	12.57	U				146.4	
PEC-W26440-C1\6		Hold	4.00	8.00	12.57	U				146.3	

Notes

1. Sampling to ASTM C 172
2. Specimen(s) prepared to ASTM C 31
3. Capping: B = Bonded ASTM C 617,U = Unbonded ASTM C 1231

Remarks

JB2 - John Ballinger
Fracture Type: 5 = Semi-Conical Break, 5 = Side fracture at top or bottom

PEC FIELD SERVICES

Located At 350 South Washington
Mailing Address 303 South Topeka
Wichita, KS 67202
(316) 262-6457 www.pec1.com

Concrete Test Report

Project No.: 190907-000.01
Report No.: CTR:PEC-W26440-C1-3

Client : Wildcat Construction Co., Inc.
Project : Plant 1 Head Works Paving Testing
3100 S Grove
Wichita KS
Project Manager : Luke A Rogers

CC: Alan Farrington, Tom Costello

Accreditation is granted by AAP and this accreditation is limited to the laboratory and the standards for which the laboratory is accredited. (#) indicates tests for which the lab is not accredited.

Date Issued: 8/7/2020
Reviewed By: Brandon Kessler

Mix Data

Supplier: CMC
Mix Identification: XI 4503
Required Strength: 4000 at age 28 days

Material	Source	Amount	Moisture

Sample Details

Date Sampled: 07/10/20
Time Sampled: 8:27 AM
Time Batched: 8:27 AM
General Location: Plant # 1
Sample Location: North Floor Patch
Contractor: Wildcat Construction
Truck No.: 590
Weather: Cloudy/Rainy
Batch Size (yd³): 1.5

Sampled By: Juan Solorzano
Date Received: 07/13/20
Time Placed:
Ticket No.: 1100137
Yd³ Placed: 1.5

Specification:

		Measured	Specified
Slump (in):	ASTM C 143	6	
Slump w/ Plasticizer (in):			
Air Temp (°F):		72	
Concrete Temp (°F):	ASTM C 1064	76	
Air Content (%):	ASTM C 231	2.3	
Unit Weight (pcf):	ASTM C 138	147.0	
Water Added (gal)	**Before:**	**After:**	

Compressive Strength of Concrete Cylinders — ASTM C 39

Specimen ID	Date Tested	Age (Days)	Diameter (in)	Length (in)	Area (in²)	Type of Cap	Maximum Load (lbf)	Fracture Type / Remarks	Compressive Strength (psi)	Density (pcf)	Tested By
PEC-W26440-C1\1	07/17/20	7	4.00	8.00	12.57	U	40140	5	3190	146.8	JB2
PEC-W26440-C1\2	08/07/20	28	4.00	8.00	12.57	U	67710	5	5390	146.4	JB2
PEC-W26440-C1\3	08/07/20	28	4.00	8.00	12.57	U	65160	5	5190	146.6	JB2
PEC-W26440-C1\4	08/07/20	28	4.00	8.00	12.57	U	64790	5	5160	144.7	JB2
							Average 28 Day Compressive Strength (psi)		5240		
							Required Strength (psi)		4000		
PEC-W26440-C1\5		Hold	4.00	8.00	12.57	U				146.4	
PEC-W26440-C1\6		Hold	4.00	8.00	12.57	U				146.3	

Notes

1. Sampling to ASTM C 172
2. Specimen(s) prepared to ASTM C 31
3. Capping: B = Bonded ASTM C 617,U = Unbonded ASTM C 1231

Remarks

JB2 - John Ballinger
Fracture Type: 5 = Semi-Conical Break, 5 = Side fracture at top or bottom

PEC FIELD SERVICES

Located At 350 South Washington
Mailing Address 303 South Topeka
Wichita, KS 67202
(316) 262-6457 www.pec1.com

Concrete Test Report

Project No.: 190907-000.01
Report No.: CTR:PEC-W26440-C1-2

Client : Wildcat Construction Co., Inc.
Project : Plant 1 Head Works Paving
Testing
3100 S Grove
Wichita KS
Project Manager : Luke A Rogers

CC: Alan Farrington, Tom Costello

Accreditation is granted by AAP and this accreditation is limited to the laboratory and the standards for which the laboratory is accredited. (#) indicates tests for which the lab is not accredited.

Date Issued: 7/17/2020
Reviewed By: Brandon Kessler

Mix Data

Supplier: CMC
Mix Identification: XI 4503
Required Strength: 4000 at age 28 days

Material	Source	Amount	Moisture

Sample Details

Date Sampled: 07/10/20
Time Sampled: 8:27 AM
Time Batched: 8:27 AM
General Location: Plant # 1
Sample Location: North Floor Patch
Contractor: Wildcat Construction
Truck No.: 590
Weather: Cloudy/Rainy
Batch Size (yd³): 1.5
Sampled By: Juan Solorzano
Date Received:
Time Placed:
Ticket No.: 1100137
Yd³ Placed: 1.5

Specification:

		Measured	Specified
Slump (in):	ASTM C 143	6	
Slump w/ Plasticizer (in):			
Air Temp (°F):		72	
Concrete Temp (°F):	ASTM C 1064	76	
Air Content (%):	ASTM C 231	2.3	
Unit Weight (pcf):	ASTM C 138	147.0	
Water Added (gal)	**Before:**	**After:**	

Compressive Strength of Concrete Cylinders — ASTM C 39

Specimen ID	Date Tested	Age (Days)	Diameter (in)	Length (in)	Area (in²)	Type of Cap	Maximum Load (lbf)	Fracture Type / Remarks	Compressive Strength (psi)	Density (pcf)	Tested By
PEC-W26440-C1\1	07/17/20	7	4.00	8.00	12.57	U	40140	5	3190	146.8	JB2
PEC-W26440-C1\2	08/07/20	28	4.00	8.00	12.57	U				146.4	
PEC-W26440-C1\3	08/07/20	28	4.00	8.00	12.57	U				146.6	
PEC-W26440-C1\4	08/07/20	28	4.00	8.00	12.57	U				144.7	
							Average 28 Day Compressive Strength (psi)				
							Required Strength (psi)		4000		
PEC-W26440-C1\5		Hold	4.00	8.00	12.57	U				146.4	
PEC-W26440-C1\6		Hold	4.00	8.00	12.57	U				146.3	

Notes

1. Sampling to ASTM C 172
2. Specimen(s) prepared to ASTM C 31
3. Capping: B = Bonded ASTM C 617,U = Unbonded ASTM C 1231

Remarks

JB2 - John Ballinger
Fracture Type: 5 = Semi-Conical Break, 5 = Side fracture at top or bottom

PEC FIELD SERVICES

Located At 350 South Washington
Mailing Address 303 South Topeka
Wichita, KS 67202
(316) 262-6457 www.pec1.com

Concrete Test Report

Project No.: 190907-000.01
Report No.: CTR:PEC-W26440-C1-3

Client : Wildcat Construction Co., Inc.
Project : Plant 1 Head Works Paving Testing
3100 S Grove
Wichita KS
Project Manager : Luke A Rogers

CC: Alan Farrington, Tom Costello

Accreditation is granted by AAP and this accreditation is limited to the laboratory and the standards for which the laboratory is accredited. (#) indicates tests for which the lab is not accredited.

Date Issued: 8/7/2020
Reviewed By: Brandon Kessler

Mix Data

Supplier: CMC
Mix Identification: XI 4503
Required Strength: 4000 at age 28 days

Material	Source	Amount	Moisture

Sample Details

Date Sampled: 07/10/20
Time Sampled: 8:27 AM
Time Batched: 8:27 AM
General Location: Plant # 1
Sample Location: North Floor Patch
Contractor: Wildcat Construction
Truck No.: 590
Weather: Cloudy/Rainy
Batch Size (yd³): 1.5

Sampled By: Juan Solorzano
Date Received: 07/13/20
Time Placed:
Ticket No.: 1100137
Yd³ Placed: 1.5

Specification:

		Measured	Specified
Slump (in):	ASTM C 143	6	
Slump w/ Plasticizer (in):			
Air Temp (°F):		72	
Concrete Temp (°F):	ASTM C 1064	76	
Air Content (%):	ASTM C 231	2.3	
Unit Weight (pcf):	ASTM C 138	147.0	
Water Added (gal)	**Before:**	**After:**	

Compressive Strength of Concrete Cylinders — ASTM C 39

Specimen ID	Date Tested	Age (Days)	Diameter (in)	Length (in)	Area (in²)	Type of Cap	Maximum Load (lbf)	Fracture Type / Remarks	Compressive Strength (psi)	Density (pcf)	Tested By
PEC-W26440-C1\1	07/17/20	7	4.00	8.00	12.57	U	40140	5	3190	146.8	JB2
PEC-W26440-C1\2	08/07/20	28	4.00	8.00	12.57	U	67710	5	5390	146.4	JB2
PEC-W26440-C1\3	08/07/20	28	4.00	8.00	12.57	U	65160	5	5190	146.6	JB2
PEC-W26440-C1\4	08/07/20	28	4.00	8.00	12.57	U	64790	5	5160	144.7	JB2
							Average 28 Day Compressive Strength (psi)		5240		
							Required Strength (psi)		4000		
PEC-W26440-C1\5		Hold	4.00	8.00	12.57	U				146.4	
PEC-W26440-C1\6		Hold	4.00	8.00	12.57	U				146.3	

Notes

1. Sampling to ASTM C 172
2. Specimen(s) prepared to ASTM C 31
3. Capping: B = Bonded ASTM C 617,U = Unbonded ASTM C 1231

Remarks

JB2 - John Ballinger
Fracture Type: 5 = Semi-Conical Break, 5 = Side fracture at top or bottom

PEC FIELD SERVICES

Located At 350 South Washington
Mailing Address 303 South Topeka
Wichita, KS 67202
(316) 262-6457 www.pec1.com

Concrete Test Report

Project No.: 190907-000.01
Report No.: CTR:PEC-W23374-C1-1

Client : Wildcat Construction Co., Inc.
Project : Plant 1 Head Works Paving Testing
3100 S Grove
Wichita KS
Project Manager : Luke A Rogers

CC: Nathan Adams

Accreditation is granted by AAP and this accreditation is limited to the laboratory and the standards for which the laboratory is accredited. (#) indicates tests for which the lab is not accredited.

Date Issued: 12/13/2019
Reviewed By: Brandon Kessler

Mix Data

Supplier: CMC
Mix Identification: WE4013
Required Strength: 4000 at age 28 days

Material	Source	Amount	Moisture

Sample Details

Date Sampled: 12/06/19
Time Sampled: 7:00 AM
Time Batched: 8:26 AM
General Location: North Concrete Pavement
Sample Location: See Attached Location Diagram
Contractor: Wildcat Construction
Truck No.: 656
Weather: Sunny/Cold
Batch Size (yd³): 10.0
Sampled By: Jesus Rojas
Date Received: 12/10/19
Time Placed:
Ticket No.: 1092340
Yd³ Placed: 40.0

Specification:

		Measured	Specified
Slump (in):	ASTM C 143	3	
Slump w/ Plasticizer (in):			
Air Temp (°F):		35	
Concrete Temp (°F):	ASTM C 1064	70	
Air Content (%):	ASTM C 231	6.0	
Unit Weight (pcf):	ASTM C 138	140.7	
Water Added (gal)	**Before:**	**After:**	

Compressive Strength of Concrete Cylinders — ASTM C 39

Specimen ID	Date Tested	Age (Days)	Diameter (in)	Length (in)	Area (in²)	Type of Cap	Maximum Load (lbf)	Fracture Type / Remarks	Compressive Strength (psi)	Density (pcf)	Tested By
PEC-W23374-C1\1	12/13/19	7	4.00	8.00	12.57	U	59230	3	4710	142.5	JB2
PEC-W23374-C1\2	01/03/20	28	4.00	8.00	12.57	U				142.0	
PEC-W23374-C1\3	01/03/20	28	4.00	8.00	12.57	U				142.7	
PEC-W23374-C1\4	01/03/20	28	4.00	8.00	12.57	U				142.5	
							Average 28 Day Compressive Strength (psi)				
							Required Strength (psi)		4000		
PEC-W23374-C1\5		Hold	4.00	8.00	12.57	U				142.7	

Notes

1. Sampling to ASTM C 172
2. Specimen(s) prepared to ASTM C 31
3. Capping: B = Bonded ASTM C 617,U = Unbonded ASTM C 1231

Remarks

JB2 - John Ballinger
Fracture Type: 3 = C39: Vert cracking/no cones; C1314: Cone & Split, 3 = Columnar vertical cracking through both ends, no well formed cones

Located At 350 South Washington
Mailing Address 303 South Topeka
Wichita, KS 67202
(316) 262-6457 www.pec1.com

Concrete Test Report

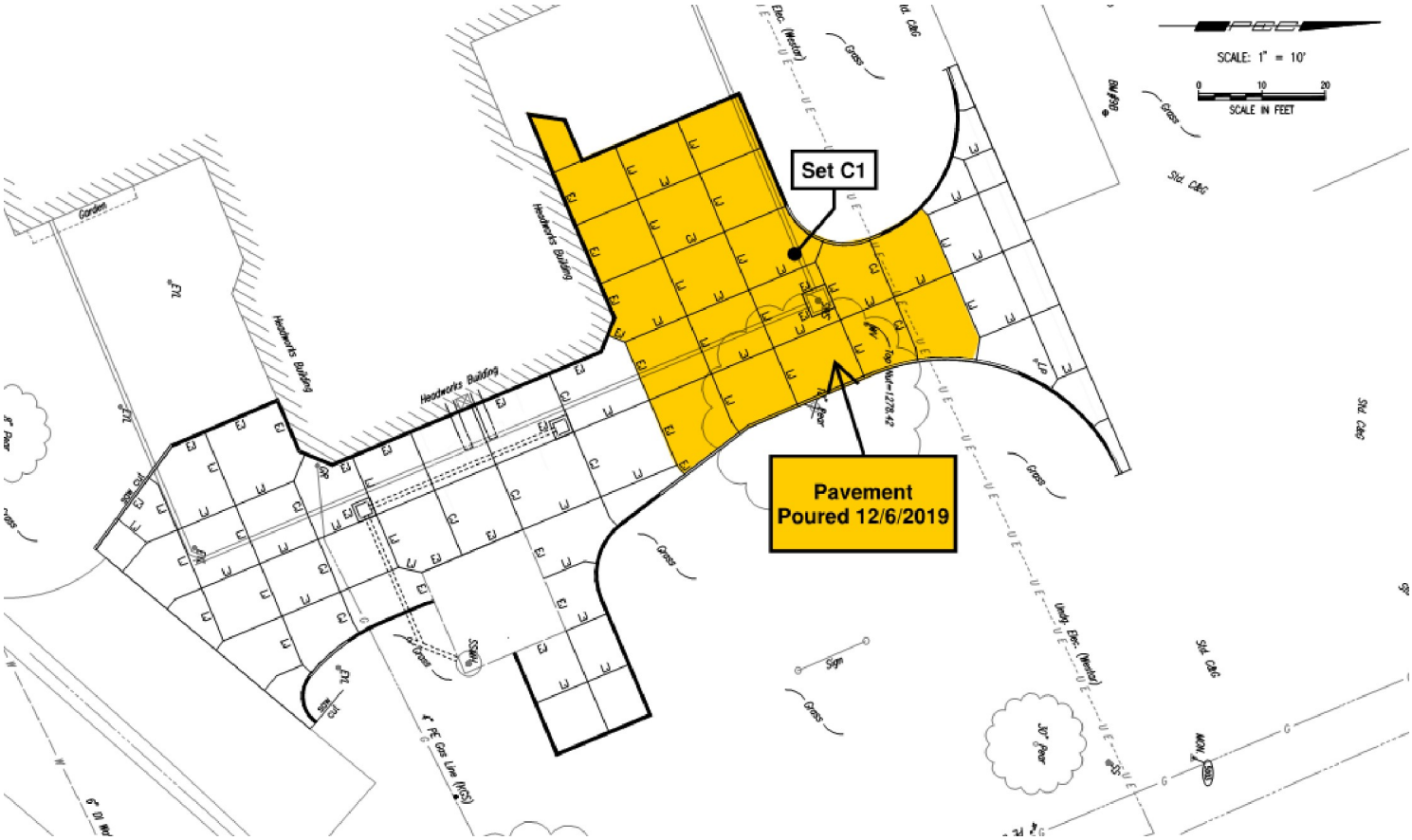
Project No.:	**190907-000.01**
Report No.:	**CTR:PEC-W23374-C1-1**

Client : Wildcat Construction Co., Inc.
Project : Plant 1 Head Works Paving
Testing
3100 S Grove
Wichita KS
Project Manager : Luke A Rogers

CC:
Nathan Adams

Accreditation is granted by AAP and this accreditation is limited to the laboratory and the standards for which the laboratory is accredited. (#) indicates tests for which the lab is not accredited.

Date Issued: **12/13/2019**
Reviewed By: Brandon Kessler



Concrete Sample Location 12/6/2019

PEC FIELD SERVICES

Located At 350 South Washington
Mailing Address 303 South Topeka
Wichita, KS 67202
(316) 262-6457 www.pec1.com

Concrete Test Report

Project No.: 190907-000.01
Report No.: CTR:PEC-W23374-C1-2

Client : Wildcat Construction Co., Inc.
Project : Plant 1 Head Works Paving Testing
3100 S Grove
Wichita KS
Project Manager : Luke A Rogers

CC: Nathan Adams, Tom Costello

Accreditation is granted by AAP and this accreditation is limited to the laboratory and the standards for which the laboratory is accredited. (#) indicates tests for which the lab is not accredited.

Date Issued: 1/3/2020
Reviewed By: Brandon Kessler

Mix Data

Supplier: CMC
Mix Identification: WE4013
Required Strength: 4000 at age 28 days

Material	Source	Amount	Moisture

Sample Details

Date Sampled: 12/06/19
Sampled By: Jesus Rojas
Time Sampled: 7:00 AM
Date Received: 12/10/19
Time Batched: 8:26 AM
Time Placed:
General Location: North Concrete Pavement
Sample Location: See Attached Location Diagram
Contractor: Wildcat Construction
Truck No.: 656
Ticket No.: 1092340
Weather: Sunny/Cold
Batch Size (yd³): 10.0
Yd³ Placed: 40.0

Specification:

		Measured	Specified
Slump (in):	ASTM C 143	3	
Slump w/ Plasticizer (in):			
Air Temp (°F):		35	
Concrete Temp (°F):	ASTM C 1064	70	
Air Content (%):	ASTM C 231	6.0	
Unit Weight (pcf):	ASTM C 138	140.7	
Water Added (gal)	**Before:**	**After:**	

Compressive Strength of Concrete Cylinders — ASTM C 39

Specimen ID	Date Tested	Age (Days)	Diameter (in)	Length (in)	Area (in²)	Type of Cap	Maximum Load (lbf)	Fracture Type / Remarks	Compressive Strength (psi)	Density (pcf)	Tested By
PEC-W23374-C1\1	12/13/19	7	4.00	8.00	12.57	U	59230	3	4710	142.5	JB2
PEC-W23374-C1\2	01/03/20	28	4.00	8.00	12.57	U	79240	5	6310	142.0	JB2
PEC-W23374-C1\3	01/03/20	28	4.00	8.00	12.57	U	77550	5	6170	142.7	JB2
PEC-W23374-C1\4	01/03/20	28	4.00	8.00	12.57	U	77120	5	6140	142.5	JB2
							Average 28 Day Compressive Strength (psi)		6200		
							Required Strength (psi)		4000		
PEC-W23374-C1\5		Hold	4.00	8.00	12.57	U				142.7	

Notes

1. Sampling to ASTM C 172
2. Specimen(s) prepared to ASTM C 31
3. Capping: B = Bonded ASTM C 617,U = Unbonded ASTM C 1231

Remarks

JB2 - John Ballinger
Fracture Type: 3 = C39: Vert cracking/no cones; C1314: Cone & Split, 3 = Columnar vertical cracking through both ends, no well formed cones, 5 = Semi-Conical Break, 5 = Side fracture at top or bottom

Located At 350 South Washington
Mailing Address 303 South Topeka
Wichita, KS 67202
(316) 262-6457 www.pec1.com

Concrete Test Report

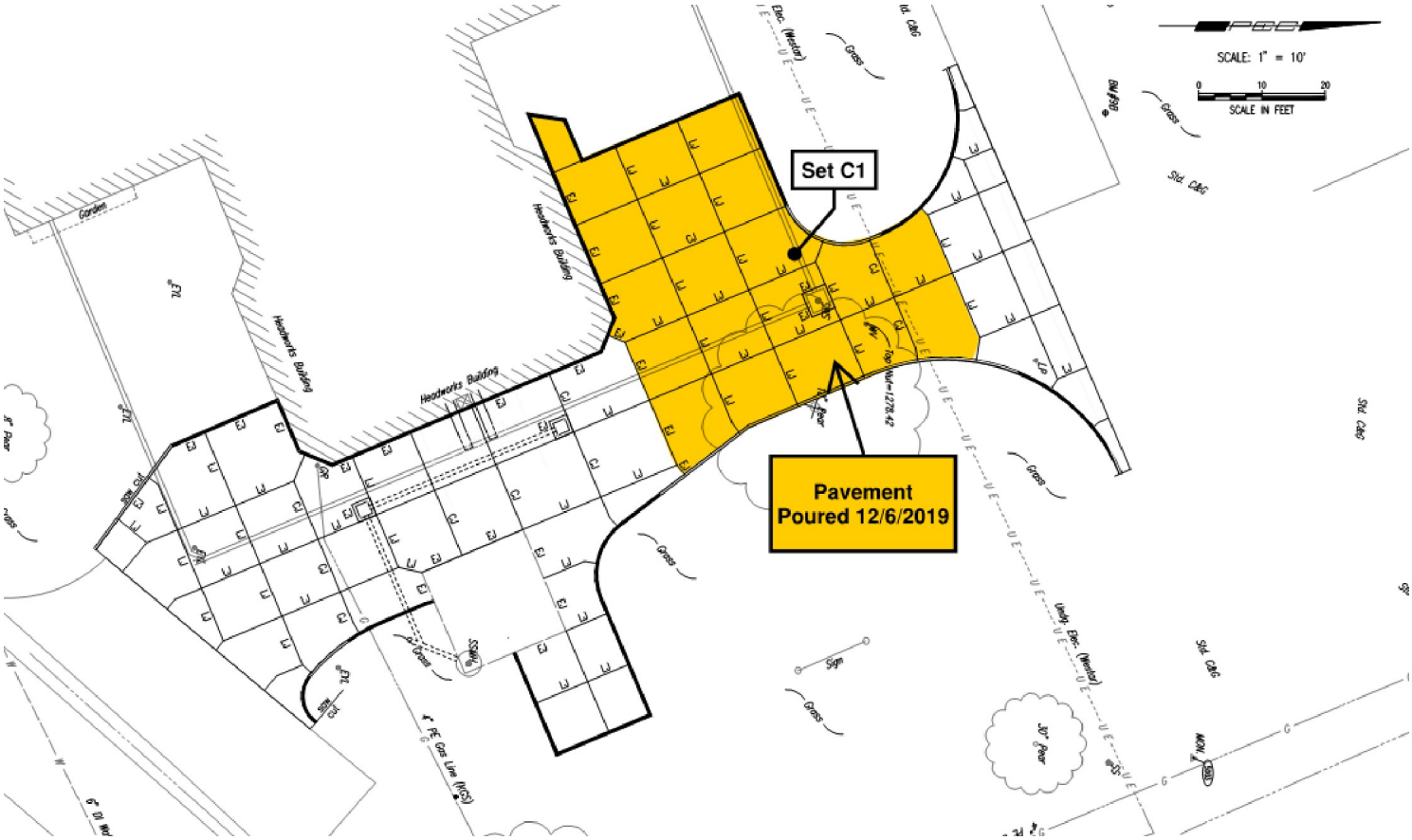
Project No.:	**190907-000.01**
Report No.:	**CTR:PEC-W23374-C1-2**

Client : Wildcat Construction Co., Inc.
Project : Plant 1 Head Works Paving Testing
3100 S Grove
Wichita KS
Project Manager : Luke A Rogers

CC:
Nathan Adams, Tom Costello

Accreditation is granted by AAP and this accreditation is limited to the laboratory and the standards for which the laboratory is accredited. (#) indicates tests for which the lab is not accredited.

Date Issued: 1/3/2020
Reviewed By: Brandon Kessler



Concrete Sample Location 12/6/2019

PEC FIELD SERVICES

Located At 350 South Washington
Mailing Address 303 South Topeka
Wichita, KS 67202
(316) 262-6457 www.pec1.com

Concrete Test Report

Project No.: 190907-000.01
Report No.: CTR:PEC-W23399-C1-1

Client : Wildcat Construction Co., Inc.
Project : Plant 1 Head Works Paving
Testing
3100 S Grove
Wichita KS
Project Manager : Luke A Rogers

CC:
Nathan Adams

Accreditation is granted by AAP and this accreditation is limited to the laboratory and the standards for which the laboratory is accredited. (#) indicates tests for which the lab is not accredited.

Date Issued: 12/16/2019
Reviewed By: Brandon Kessler

Mix Data

Supplier: CMC
Mix Identification: WE4013
Required Strength: 4000 at age 28 days

Material	Source	Amount	Moisture

Sample Details

Date Sampled: 12/09/19
Time Sampled: 12:10 PM
Time Batched: 11:13 AM
General Location: North Entrance
Sample Location: See Attached Location Diagram
Contractor: Wildcat Construction
Truck No.: 592
Weather: Sunny / Windy and Cold
Batch Size (yd³): 7.5
Sampled By: Pat Berry
Date Received: 12/11/19
Time Placed:
Ticket No.: 1092408
Yd³ Placed: 15.0

Specification:

		Measured	Specified
Slump (in):	ASTM C 143	3.5	
Slump w/ Plasticizer (in):			
Air Temp (°F):		33	
Concrete Temp (°F):	ASTM C 1064	73	
Air Content (%):	ASTM C 231	6.0	
Unit Weight (pcf):	ASTM C 138	141.0	
Water Added (gal)	**Before:** 11	**After:**	

Compressive Strength of Concrete Cylinders

ASTM C 39

Specimen ID	Date Tested	Age (Days)	Diameter (in)	Length (in)	Area (in²)	Type of Cap	Maximum Load (lbf)	Fracture Type / Remarks	Compressive Strength (psi)	Density (pcf)	Tested By
PEC-W23399-C1\1	12/16/19	7	4.00	8.00	12.57	U	58180	5	4630	141.1	JB2
PEC-W23399-C1\2	01/06/20	28	4.00	8.00	12.57	U				140.8	
PEC-W23399-C1\3	01/06/20	28	4.00	8.00	12.57	U				140.6	
PEC-W23399-C1\4	01/06/20	28	4.00	8.00	12.57	U				141.8	
							Average 28 Day Compressive Strength (psi)				
							Required Strength (psi)		4000		
PEC-W23399-C1\5		Hold	4.00	8.00	12.57	U				140.8	

Notes

1. Sampling to ASTM C 172
2. Specimen(s) prepared to ASTM C 31
3. Capping: B = Bonded ASTM C 617,U = Unbonded ASTM C 1231

Remarks

JB2 - John Ballinger
Fracture Type: 5 = Semi-Conical Break, 5 = Side fracture at top or bottom

Located At 350 South Washington
Mailing Address 303 South Topeka
Wichita, KS 67202
(316) 262-6457 www.pec1.com

Concrete Test Report

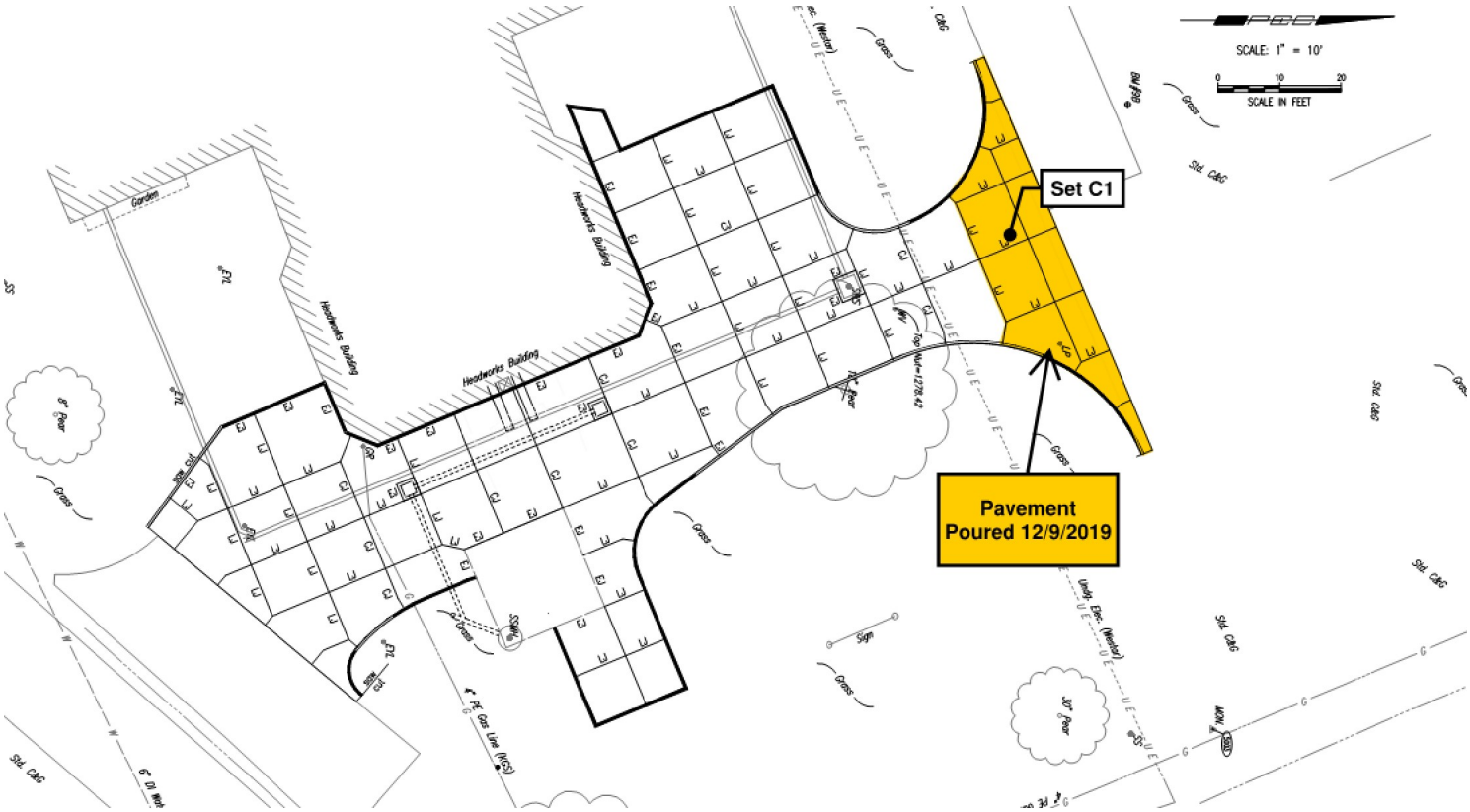
Project No.:	**190907-000.01**
Report No.:	**CTR:PEC-W23399-C1-1**

Client : Wildcat Construction Co., Inc.
Project : Plant 1 Head Works Paving
Testing
3100 S Grove
Wichita KS
Project Manager : Luke A Rogers

CC:
Nathan Adams

Accreditation is granted by AAP and this accreditation is limited to the laboratory and the standards for which the laboratory is accredited. (#) indicates tests for which the lab is not accredited.

Date Issued: **12/16/2019**
Reviewed By: Brandon Kessler



Concrete Sample Location 12/9/2019

PEC FIELD SERVICES

Located At 350 South Washington
Mailing Address 303 South Topeka
Wichita, KS 67202
(316) 262-6457 www.pec1.com

Concrete Test Report

Project No.: 190907-000.01
Report No.: CTR:PEC-W23463-C1-1

Client : Wildcat Construction Co., Inc.
Project : Plant 1 Head Works Paving Testing
3100 S Grove
Wichita KS
Project Manager : Luke A Rogers

CC: Nathan Adams, Tom Costello

Accreditation is granted by AAP and this accreditation is limited to the laboratory and the standards for which the laboratory is accredited. (#) indicates tests for which the lab is not accredited.

Date Issued: 12/18/2019
Reviewed By: Brandon Kessler

Mix Data

Supplier: CMC
Mix Identification: TE4010
Required Strength: 4000 at age 28 days

Material	Source	Amount	Moisture

Sample Details

Date Sampled: 12/11/19
Time Sampled: 1:20 PM
Time Batched:
General Location: Concrete Pavement
Sample Location: See Attached Location Diagram
Contractor: Wildcat Construction
Truck No.: 55
Weather: Sunny/Cool
Batch Size (yd³): 10.5
Sampled By: Danny Kernes
Date Received: 12/12/19
Time Placed:
Ticket No.: 1092620
Yd³ Placed: 10.5

Specification:

		Measured	Specified
Slump (in):	ASTM C 143	3.5	
Slump w/ Plasticizer (in):			
Air Temp (°F):		46	
Concrete Temp (°F):	ASTM C 1064	73	
Air Content (%):	ASTM C 231	7.8	
Unit Weight (pcf):	ASTM C 138	137.6	
Water Added (gal)	**Before:** 10	**After:**	

Compressive Strength of Concrete Cylinders

ASTM C 39

Specimen ID	Date Tested	Age (Days)	Diameter (in)	Length (in)	Area (in²)	Type of Cap	Maximum Load (lbf)	Fracture Type / Remarks	Compressive Strength (psi)	Density (pcf)	Tested By
PEC-W23463-C1\1	12/18/19	7	4.00	8.00	12.57	U	41840	5	3330	137.5	JB2
PEC-W23463-C1\2	01/08/20	28	4.00	8.00	12.57	U				137.3	
PEC-W23463-C1\3	01/08/20	28	4.00	8.00	12.57	U				136.8	
PEC-W23463-C1\4	01/08/20	28	4.00	8.00	12.57	U				137.5	
							Average 28 Day Compressive Strength (psi)				
							Required Strength (psi)		4000		
PEC-W23463-C1\5		Hold	4.00	8.00	12.57	U				137.5	

Notes

1. Sampling to ASTM C 172
2. Specimen(s) prepared to ASTM C 31
3. Capping: B = Bonded ASTM C 617,U = Unbonded ASTM C 1231

Remarks

JB2 - John Ballinger
Fracture Type: 5 = Semi-Conical Break, 5 = Side fracture at top or bottom

Located At 350 South Washington
Mailing Address 303 South Topeka
Wichita, KS 67202
(316) 262-6457 www.pec1.com

Concrete Test Report

Project No.:	**190907-000.01**
Report No.:	**CTR:PEC-W23463-C1-1**

Client : Wildcat Construction Co., Inc.
Project : Plant 1 Head Works Paving Testing
3100 S Grove
Wichita KS
Project Manager : Luke A Rogers

CC:
Nathan Adams, Tom Costello

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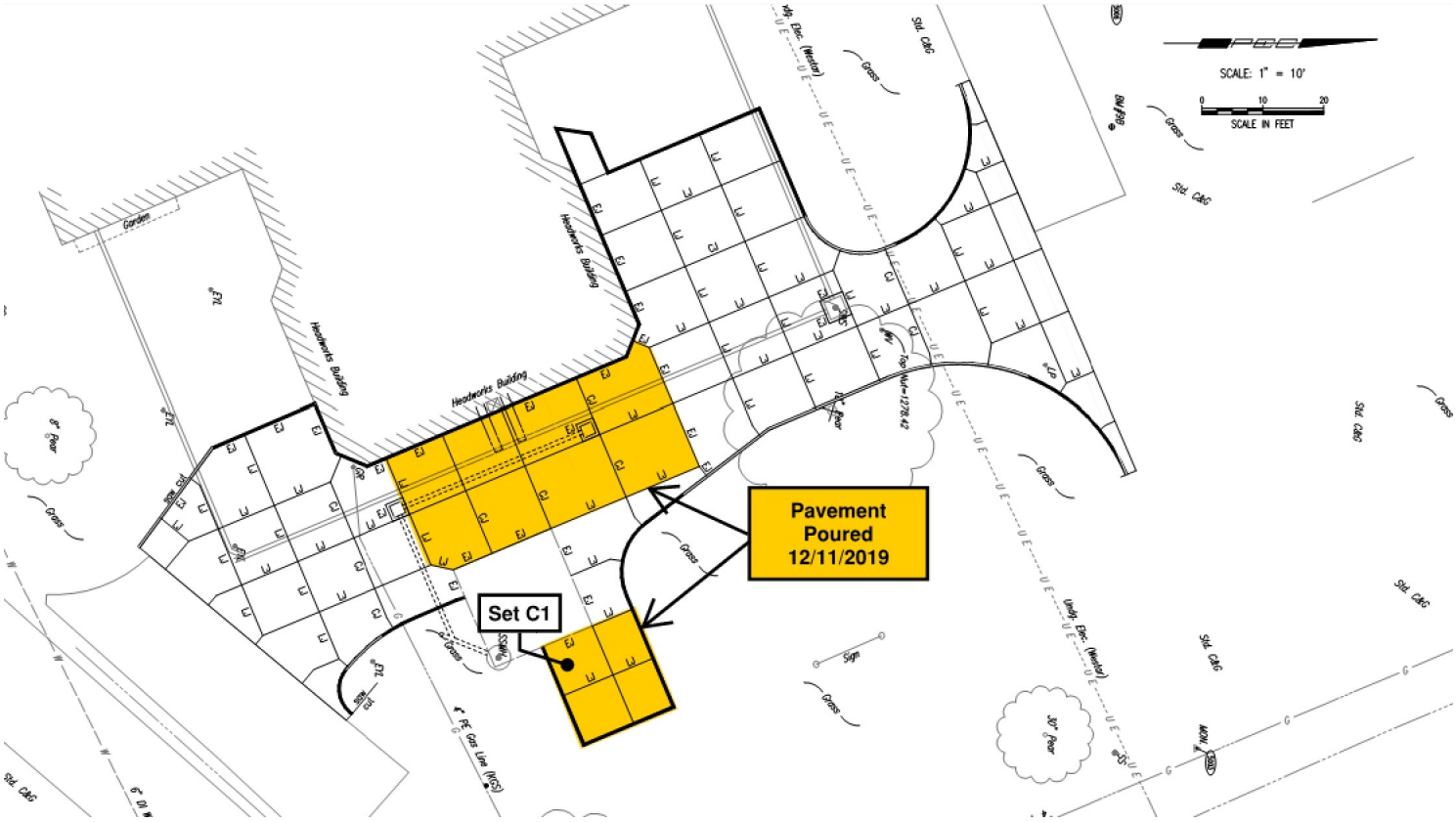
Date Issued: 12/18/2019
Reviewed By: Brandon Kessler



Concrete Sample Location 12/11/2019

PEC FIELD SERVICES

Located At 350 South Washington
Mailing Address 303 South Topeka
Wichita, KS 67202
(316) 262-6457 www.pec1.com

Concrete Test Report

Project No.: 190907-000.01
Report No.: CTR:PEC-W23463-C1-2

Client : Wildcat Construction Co., Inc.
Project : Plant 1 Head Works Paving Testing
3100 S Grove
Wichita KS
Project Manager : Luke A Rogers

CC: Nathan Adams, Tom Costello

Accreditation is granted by AAP and this accreditation is limited to the laboratory and the standards for which the laboratory is accredited. (#) indicates tests for which the lab is not accredited.

Date Issued: 1/8/2020
Reviewed By: Brandon Kessler

Mix Data

Supplier: CMC
Mix Identification: TE4010
Required Strength: 4000 at age 28 days

Material	Source	Amount	Moisture

Sample Details

Date Sampled: 12/11/19
Time Sampled: 1:20 PM
Time Batched:
General Location: Concrete Pavement
Sample Location: See Attached Location Diagram
Contractor: Wildcat Construction
Truck No.: 55
Weather: Sunny/Cool
Batch Size (yd³): 10.5

Sampled By: Danny Kernes
Date Received: 12/12/19
Time Placed:
Ticket No.: 1092620
Yd³ Placed: 10.5

Specification:

		Measured	Specified
Slump (in):	ASTM C 143	3.5	
Slump w/ Plasticizer (in):			
Air Temp (°F):		46	
Concrete Temp (°F):	ASTM C 1064	73	
Air Content (%):	ASTM C 231	7.8	
Unit Weight (pcf):	ASTM C 138	137.6	
Water Added (gal)	**Before:** 10	**After:**	

Compressive Strength of Concrete Cylinders

ASTM C 39

Specimen ID	Date Tested	Age (Days)	Diameter (in)	Length (in)	Area (in²)	Type of Cap	Maximum Load (lbf)	Fracture Type / Remarks	Compressive Strength (psi)	Density (pcf)	Tested By
PEC-W23463-C1\1	12/18/19	7	4.00	8.00	12.57	U	41840	5	3330	137.5	JB2
PEC-W23463-C1\2	01/08/20	28	4.00	8.00	12.57	U	58080	5	4620	137.3	JB2
PEC-W23463-C1\3	01/08/20	28	4.00	8.00	12.57	U	56280	5	4480	136.8	JB2
PEC-W23463-C1\4	01/08/20	28	4.00	8.00	12.57	U	57060	5	4540	137.5	JB2
							Average 28 Day Compressive Strength (psi)		4550		
							Required Strength (psi)		4000		
PEC-W23463-C1\5		Hold	4.00	8.00	12.57	U				137.5	

Notes

1. Sampling to ASTM C 172
2. Specimen(s) prepared to ASTM C 31
3. Capping: B = Bonded ASTM C 617,U = Unbonded ASTM C 1231

Remarks

JB2 - John Ballinger
Fracture Type: 5 = Semi-Conical Break, 5 = Side fracture at top or bottom

Located At 350 South Washington
Mailing Address 303 South Topeka
Wichita, KS 67202
(316) 262-6457 www.pec1.com

Concrete Test Report

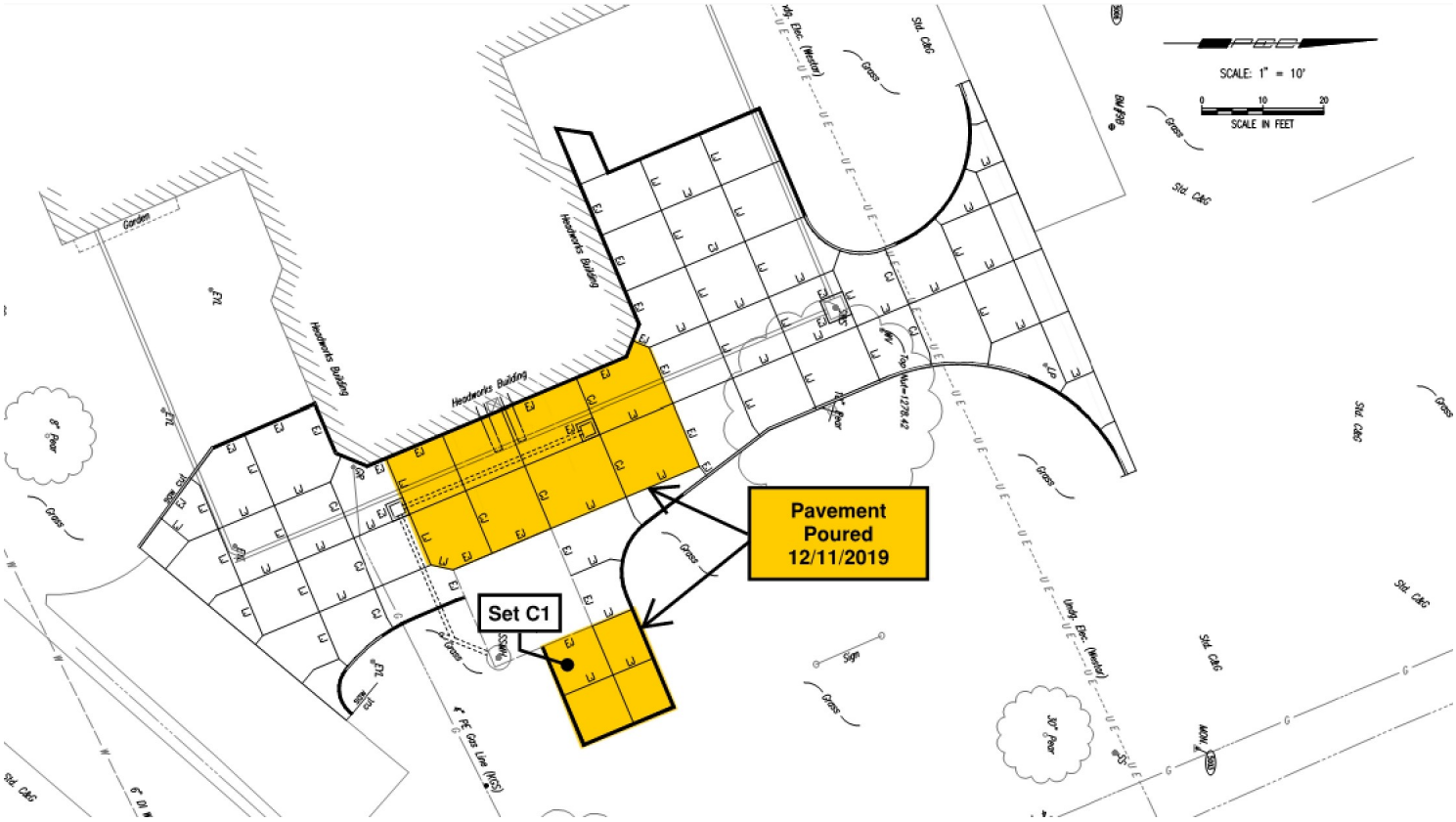
Project No.:	**190907-000.01**
Report No.:	**CTR:PEC-W23463-C1-2**

Client : Wildcat Construction Co., Inc.
Project : Plant 1 Head Works Paving
Testing
3100 S Grove
Wichita KS
Project Manager : Luke A Rogers

CC:
Nathan Adams, Tom Costello

Accreditation is granted by AAP and this accreditation is limited to the laboratory and the standards for which the laboratory is accredited. (#) indicates tests for which the lab is not accredited.

Date Issued: 1/8/2020
Reviewed By: Brandon Kessler



Concrete Sample Location 12/11/2019

PEC FIELD SERVICES

Located At 350 South Washington
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Concrete Test Report

Project No.: 190907-000.01
Report No.: CTR:PEC-W23463-C1-2

Client : Wildcat Construction Co., Inc.
Project : Plant 1 Head Works Paving Testing
3100 S Grove
Wichita KS
Project Manager : Luke A Rogers

CC: Nathan Adams, Tom Costello

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Date Issued: 1/8/2020
Reviewed By: Brandon Kessler

Mix Data

Supplier: CMC
Mix Identification: TE4010
Required Strength: 4000 at age 28 days

Material	Source	Amount	Moisture

Sample Details

Date Sampled: 12/11/19
Time Sampled: 1:20 PM
Time Batched:
General Location: Concrete Pavement
Sample Location: See Attached Location Diagram
Contractor: Wildcat Construction
Truck No.: 55
Weather: Sunny/Cool
Batch Size (yd³): 10.5

Sampled By: Danny Kernes
Date Received: 12/12/19
Time Placed:
Ticket No.: 1092620
Yd³ Placed: 10.5

Specification:

		Measured	Specified
Slump (in):	ASTM C 143	3.5	
Slump w/ Plasticizer (in):			
Air Temp (°F):		46	
Concrete Temp (°F):	ASTM C 1064	73	
Air Content (%):	ASTM C 231	7.8	
Unit Weight (pcf):	ASTM C 138	137.6	
Water Added (gal)	**Before:** 10	**After:**	

Compressive Strength of Concrete Cylinders

ASTM C 39

Specimen ID	Date Tested	Age (Days)	Diameter (in)	Length (in)	Area (in²)	Type of Cap	Maximum Load (lbf)	Fracture Type / Remarks	Compressive Strength (psi)	Density (pcf)	Tested By
PEC-W23463-C1\1	12/18/19	7	4.00	8.00	12.57	U	41840	5	3330	137.5	JB2
PEC-W23463-C1\2	01/08/20	28	4.00	8.00	12.57	U	58080	5	4620	137.3	JB2
PEC-W23463-C1\3	01/08/20	28	4.00	8.00	12.57	U	56280	5	4480	136.8	JB2
PEC-W23463-C1\4	01/08/20	28	4.00	8.00	12.57	U	57060	5	4540	137.5	JB2
							Average 28 Day Compressive Strength (psi)		4550		
							Required Strength (psi)		4000		
PEC-W23463-C1\5		Hold	4.00	8.00	12.57	U				137.5	

Notes

1. Sampling to ASTM C 172
2. Specimen(s) prepared to ASTM C 31
3. Capping: B = Bonded ASTM C 617,U = Unbonded ASTM C 1231

Remarks

JB2 - John Ballinger
Fracture Type: 5 = Semi-Conical Break, 5 = Side fracture at top or bottom

Located At 350 South Washington
Mailing Address 303 South Topeka
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(316) 262-6457 www.pec1.com

Concrete Test Report

Project No.:	**190907-000.01**
Report No.:	**CTR:PEC-W23463-C1-2**

Client : Wildcat Construction Co., Inc.
Project : Plant 1 Head Works Paving
Testing
3100 S Grove
Wichita KS
Project Manager : Luke A Rogers

CC:
Nathan Adams, Tom Costello

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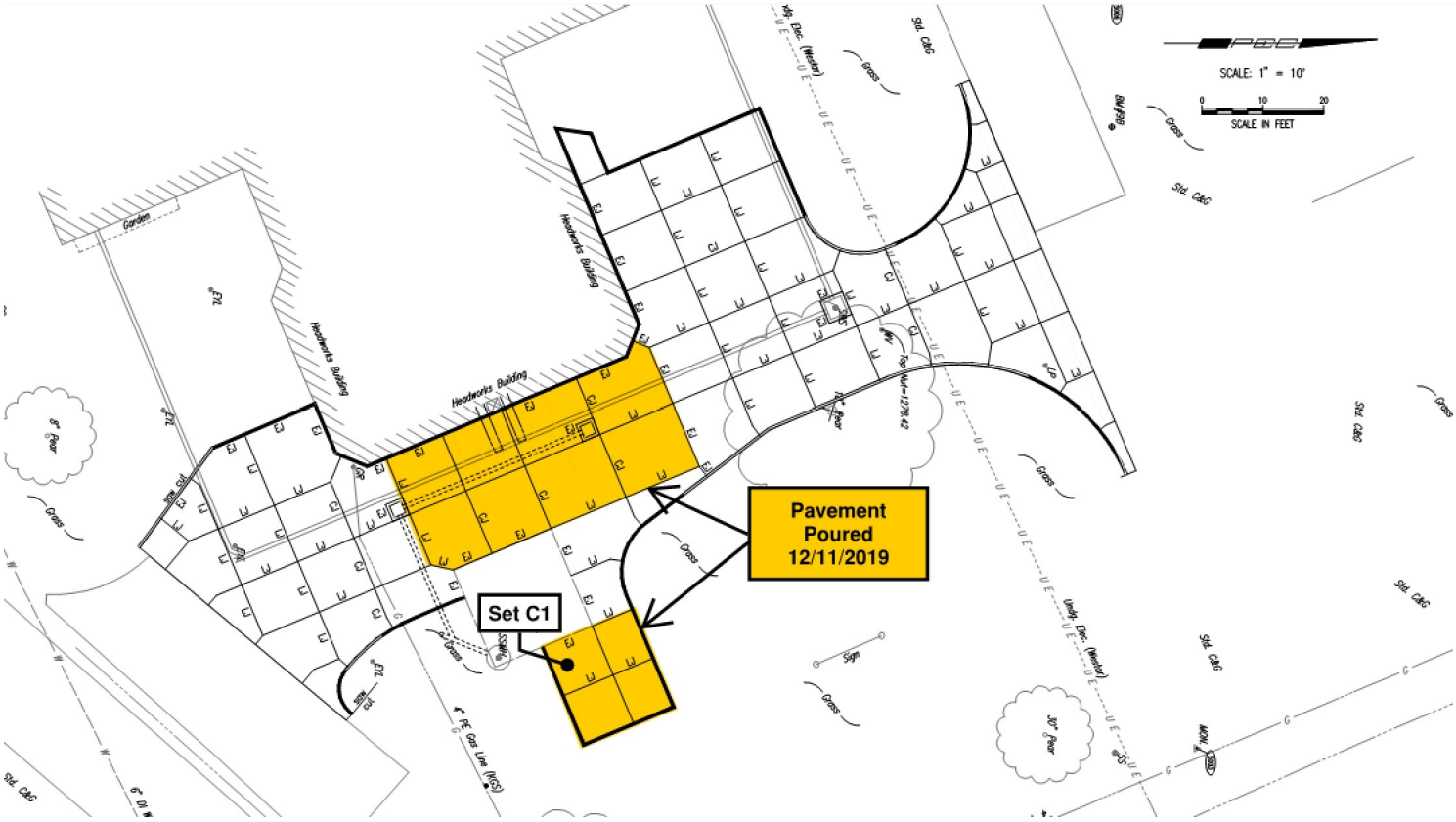
Date Issued: 1/8/2020
Reviewed By: Brandon Kessler



Concrete Sample Location 12/11/2019

PEC FIELD SERVICES

Located At 350 South Washington
Mailing Address 303 South Topeka
Wichita, KS 67202
(316) 262-6457 www.pec1.com

Concrete Test Report

Project No.: 190907-000.01
Report No.: CTR:PEC-W23510-C1-1

Client : Wildcat Construction Co., Inc.
Project : Plant 1 Head Works Paving
Testing
3100 S Grove
Wichita KS
Project Manager : Luke A Rogers

CC: Nathan Adams, Tom Costello

Accreditation is granted by AAP and this accreditation is limited to the laboratory and the standards for which the laboratory is accredited. (#) indicates tests for which the lab is not accredited.

Date Issued: 12/20/2019
Reviewed By: Brandon Kessler

Mix Data

Supplier: CMC
Mix Identification: YE4010
Required Strength: 4000 at age 28 days

Material	Source	Amount	Moisture

Sample Details

Date Sampled: 12/13/19 **Sampled By:** Pat Berry
Time Sampled: 11:38 AM **Date Received:** 12/17/19
Time Batched: 11:04 AM **Time Placed:**
General Location: South Concrete Pavement Area
Sample Location: See Attached Location Diagram
Contractor: Wildcat Construction
Truck No.: 652 **Ticket No.:** 1092662
Weather: Sunny
Batch Size (yd³): 10.0 **Yd³ Placed:** 20.0

Specification:

		Measured	Specified
Slump (in):	ASTM C 143	3	
Slump w/ Plasticizer (in):			
Air Temp (°F):		56	
Concrete Temp (°F):	ASTM C 1064	73	
Air Content (%):	ASTM C 231	6.2	
Unit Weight (pcf):	ASTM C 138	141.8	
Water Added (gal)	**Before:** 8	**After:**	

Compressive Strength of Concrete Cylinders — ASTM C 39

Specimen ID	Date Tested	Age (Days)	Diameter (in)	Length (in)	Area (in²)	Type of Cap	Maximum Load (lbf)	Fracture Type / Remarks	Compressive Strength (psi)	Density (pcf)	Tested By
PEC-W23510-C1\1	12/20/19	7	4.00	8.00	12.57	U	44350	5	3530	142.3	JB2
PEC-W23510-C1\2	01/10/20	28	4.00	8.00	12.57	U				142.2	
PEC-W23510-C1\3	01/10/20	28	4.00	8.00	12.57	U				141.6	
PEC-W23510-C1\4	01/10/20	28	4.00	8.00	12.57	U				141.6	
							Average 28 Day Compressive Strength (psi)				
							Required Strength (psi)		4000		
PEC-W23510-C1\5		Hold	4.00	8.00	12.57	U				142.7	

Notes

1. Sampling to ASTM C 172
2. Specimen(s) prepared to ASTM C 31
3. Capping: B = Bonded ASTM C 617,U = Unbonded ASTM C 1231

Remarks

JB2 - John Ballinger
Fracture Type: 5 = Semi-Conical Break, 5 = Side fracture at top or bottom

Located At 350 South Washington
Mailing Address 303 South Topeka
Wichita, KS 67202
(316) 262-6457 www.pec1.com

Concrete Test Report

Project No.:	**190907-000.01**
Report No.:	**CTR:PEC-W23510-C1-1**

Client : Wildcat Construction Co., Inc.
Project : Plant 1 Head Works Paving Testing
3100 S Grove
Wichita KS
Project Manager : Luke A Rogers

CC:
Nathan Adams, Tom Costello

Accreditation is granted by AAP and this accreditation is limited to the laboratory and the standards for which the laboratory is accredited. (#) indicates tests for which the lab is not accredited.

Date Issued: 12/20/2019
Reviewed By: Brandon Kessler

Concrete Sample Location 12/13/2019

PEC FIELD SERVICES

Located At 350 South Washington
Mailing Address 303 South Topeka
Wichita, KS 67202
(316) 262-6457 www.pec1.com

Concrete Test Report

Project No.: 190907-000.01
Report No.: CTR:PEC-W23510-C1-2

Client : Wildcat Construction Co., Inc.
Project : Plant 1 Head Works Paving
Testing
3100 S Grove
Wichita KS
Project Manager : Luke A Rogers

CC: Nathan Adams, Tom Costello

Accreditation is granted by AAP and this accreditation is limited to the laboratory and the standards for which the laboratory is accredited. (#) indicates tests for which the lab is not accredited.

Date Issued: 1/10/2020
Reviewed By: Brandon Kessler

Mix Data

Supplier: CMC
Mix Identification: YE4010
Required Strength: 4000 at age 28 days

Material	Source	Amount	Moisture

Sample Details

Date Sampled: 12/13/19 **Sampled By:** Pat Berry
Time Sampled: 11:38 AM **Date Received:** 12/17/19
Time Batched: 11:04 AM **Time Placed:**
General Location: South Concrete Pavement Area
Sample Location: See Attached Location Diagram
Contractor: Wildcat Construction
Truck No.: 652 **Ticket No.:** 1092662
Weather: Sunny
Batch Size (yd³): 10.0 **Yd³ Placed:** 20.0

Specification:

		Measured	Specified
Slump (in):	ASTM C 143	3	
Slump w/ Plasticizer (in):			
Air Temp (°F):		56	
Concrete Temp (°F):	ASTM C 1064	73	
Air Content (%):	ASTM C 231	6.2	
Unit Weight (pcf):	ASTM C 138	141.8	
Water Added (gal)	**Before:** 8	**After:**	

Compressive Strength of Concrete Cylinders — ASTM C 39

Specimen ID	Date Tested	Age (Days)	Diameter (in)	Length (in)	Area (in²)	Type of Cap	Maximum Load (lbf)	Fracture Type / Remarks	Compressive Strength (psi)	Density (pcf)	Tested By
PEC-W23510-C1\1	12/20/19	7	4.00	8.00	12.57	U	44350	5	3530	142.3	JB2
PEC-W23510-C1\2	01/10/20	28	4.00	8.00	12.57	U	66450	5	5290	142.2	JB2
PEC-W23510-C1\3	01/10/20	28	4.00	8.00	12.57	U	67020	5	5330	141.6	JB2
PEC-W23510-C1\4	01/10/20	28	4.00	8.00	12.57	U	65690	5	5230	141.6	JB2
							Average 28 Day Compressive Strength (psi)		5280		
							Required Strength (psi)		4000		
PEC-W23510-C1\5		Hold	4.00	8.00	12.57	U				142.7	

Notes

1. Sampling to ASTM C 172
2. Specimen(s) prepared to ASTM C 31
3. Capping: B = Bonded ASTM C 617,U = Unbonded ASTM C 1231

Remarks

JB2 - John Ballinger
Fracture Type: 5 = Semi-Conical Break, 5 = Side fracture at top or bottom

PEC FIELD SERVICES

Located At 350 South Washington
Mailing Address 303 South Topeka
Wichita, KS 67202
(316) 262-6457 www.pec1.com

Concrete Test Report

Project No.:	**190907-000.01**
Report No.:	**CTR:PEC-W23510-C1-2**

Client : Wildcat Construction Co., Inc.
Project : Plant 1 Head Works Paving Testing
3100 S Grove
Wichita KS
Project Manager : Luke A Rogers

CC:
Nathan Adams, Tom Costello

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Date Issued: **1/10/2020**
Reviewed By: Brandon Kessler

Concrete Sample Location 12/13/2019

PEC FIELD SERVICES

Located At 350 South Washington
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(316) 262-6457 www.pec1.com

Concrete Test Report

Project No.: 190907-000.01
Report No.: CTR:PEC-W23510-C1-2

Client : Wildcat Construction Co., Inc.
Project : Plant 1 Head Works Paving
Testing
3100 S Grove
Wichita KS
Project Manager : Luke A Rogers

CC: Nathan Adams, Tom Costello

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Date Issued: 1/10/2020
Reviewed By: Brandon Kessler

Mix Data

Supplier: CMC
Mix Identification: YE4010
Required Strength: 4000 at age 28 days

Material	Source	Amount	Moisture

Sample Details

Date Sampled: 12/13/19 **Sampled By:** Pat Berry
Time Sampled: 11:38 AM **Date Received:** 12/17/19
Time Batched: 11:04 AM **Time Placed:**
General Location: South Concrete Pavement Area
Sample Location: See Attached Location Diagram
Contractor: Wildcat Construction
Truck No.: 652 **Ticket No.:** 1092662
Weather: Sunny
Batch Size (yd³): 10.0 **Yd³ Placed:** 20.0

Specification:

		Measured	Specified
Slump (in):	ASTM C 143	3	
Slump w/ Plasticizer (in):			
Air Temp (°F):		56	
Concrete Temp (°F):	ASTM C 1064	73	
Air Content (%):	ASTM C 231	6.2	
Unit Weight (pcf):	ASTM C 138	141.8	
Water Added (gal)	**Before:** 8	**After:**	

Compressive Strength of Concrete Cylinders — ASTM C 39

Specimen ID	Date Tested	Age (Days)	Diameter (in)	Length (in)	Area (in²)	Type of Cap	Maximum Load (lbf)	Fracture Type / Remarks	Compressive Strength (psi)	Density (pcf)	Tested By
PEC-W23510-C1\1	12/20/19	7	4.00	8.00	12.57	U	44350	5	3530	142.3	JB2
PEC-W23510-C1\2	01/10/20	28	4.00	8.00	12.57	U	66450	5	5290	142.2	JB2
PEC-W23510-C1\3	01/10/20	28	4.00	8.00	12.57	U	67020	5	5330	141.6	JB2
PEC-W23510-C1\4	01/10/20	28	4.00	8.00	12.57	U	65690	5	5230	141.6	JB2
							Average 28 Day Compressive Strength (psi)		5280		
							Required Strength (psi)		4000		
PEC-W23510-C1\5		Hold	4.00	8.00	12.57	U				142.7	

Notes

1. Sampling to ASTM C 172
2. Specimen(s) prepared to ASTM C 31
3. Capping: B = Bonded ASTM C 617,U = Unbonded ASTM C 1231

Remarks

JB2 - John Ballinger
Fracture Type: 5 = Semi-Conical Break, 5 = Side fracture at top or bottom

PEC FIELD SERVICES

Located At 350 South Washington
Mailing Address 303 South Topeka
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(316) 262-6457 www.pec1.com

Concrete Test Report

Project No.:	**190907-000.01**
Report No.:	**CTR:PEC-W23510-C1-2**

Client : Wildcat Construction Co., Inc.
Project : Plant 1 Head Works Paving Testing
3100 S Grove
Wichita KS
Project Manager : Luke A Rogers

CC:
Nathan Adams, Tom Costello

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Date Issued: **1/10/2020**
Reviewed By: Brandon Kessler

Concrete Sample Location 12/13/2019

PEC FIELD SERVICES

Located At 350 South Washington
Mailing Address 303 South Topeka
Wichita, KS 67202
(316) 262-6457 www.pec1.com

Concrete Test Report

Project No.: 190907-000.01
Report No.: CTR:PEC-W23559-C1-1

Client : Wildcat Construction Co., Inc.
Project : Plant 1 Head Works Paving Testing
3100 S Grove
Wichita KS
Project Manager : Luke A Rogers

CC: Nathan Adams, Tom Costello

Accreditation is granted by AAP and this accreditation is limited to the laboratory and the standards for which the laboratory is accredited. (#) indicates tests for which the lab is not accredited.

Date Issued: 12/30/2019
Reviewed By: Luke Rogers

Mix Data

Supplier: CMC
Mix Identification: YE4010
Required Strength: 4000 at age 28 days

Material	Source	Amount	Moisture

Sample Details

Date Sampled: 12/19/19
Time Sampled: 8:35 AM
Time Batched:
Sampled By: Lupe Cardenas
Date Received: 12/24/19
Time Placed:
General Location: Concrete Pavement South of Building
Sample Location: See Attached Location Diagram
Contractor: Wildcat Construction
Truck No.: 660
Ticket No.: 1092789
Weather: Cold
Batch Size (yd³): 9.3
Yd³ Placed: 18.0

Specification:

		Measured	Specified
Slump (in):	ASTM C 143	4	
Slump w/ Plasticizer (in):			
Air Temp (°F):		30	
Concrete Temp (°F):	ASTM C 1064	69	
Air Content (%):	ASTM C 231	6.9	
Unit Weight (pcf):	ASTM C 138	137.6	
Water Added (gal)	**Before:**	**After:**	

Compressive Strength of Concrete Cylinders — ASTM C 39

Specimen ID	Date Tested	Age (Days)	Diameter (in)	Length (in)	Area (in²)	Type of Cap	Maximum Load (lbf)	Fracture Type / Remarks	Compressive Strength (psi)	Density (pcf)	Tested By
PEC-W23559-C1\1	12/27/19	8	4.00	8.00	12.57	U	59260	5	4720	139.7	JB2
PEC-W23559-C1\2	01/16/20	28	4.00	8.00	12.57	U				139.2	
PEC-W23559-C1\3	01/16/20	28	4.00	8.00	12.57	U				139.7	
PEC-W23559-C1\4	01/16/20	28	4.00	8.00	12.57	U				139.7	
							Average 28 Day Compressive Strength (psi)				
							Required Strength (psi)		4000		
PEC-W23559-C1\5		Hold	4.00	3.00	12.57	U				370.8	

Notes

1. Sampling to ASTM C 172
2. Specimen(s) prepared to ASTM C 31
3. Capping: B = Bonded ASTM C 617,U = Unbonded ASTM C 1231

Remarks

JB2 - John Ballinger
Fracture Type: 5 = Semi-Conical Break, 5 = Side fracture at top or bottom

Located At 350 South Washington
Mailing Address 303 South Topeka
Wichita, KS 67202
(316) 262-6457 www.pec1.com

Concrete Test Report

Project No.:	**190907-000.01**
Report No.:	**CTR:PEC-W23559-C1-1**

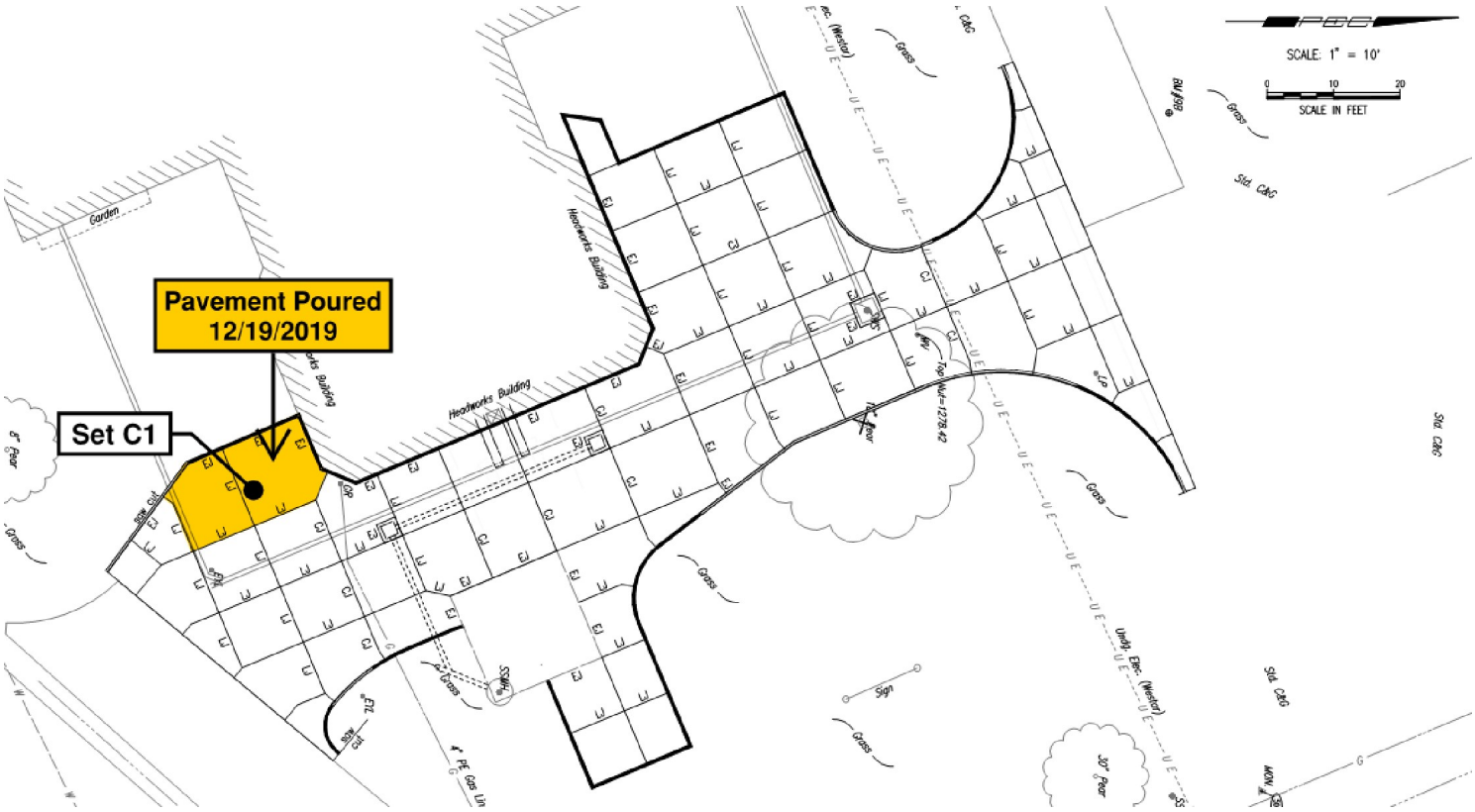
Client : Wildcat Construction Co., Inc.
Project : Plant 1 Head Works Paving Testing
3100 S Grove
Wichita KS
Project Manager : Luke A Rogers

CC:
Nathan Adams, Tom Costello

Accreditation is granted by AAP and this accreditation is limited to the laboratory and the standards for which the laboratory is accredited. (#) indicates tests for which the lab is not accredited.

Luke A Rogers

Date Issued: 12/30/2019
Reviewed By: Luke Rogers



Concrete Sample Location 12/19/2019

PEC FIELD SERVICES

Located At 350 South Washington
Mailing Address 303 South Topeka
Wichita, KS 67202
(316) 262-6457 www.pec1.com

Concrete Test Report

Project No.: 190907-000.01
Report No.: CTR:PEC-W23559-C1-2

Client : Wildcat Construction Co., Inc.
Project : Plant 1 Head Works Paving
Testing
3100 S Grove
Wichita KS
Project Manager : Luke A Rogers

CC: Nathan Adams, Tom Costello

Accreditation is granted by AAP and this accreditation is limited to the laboratory and the standards for which the laboratory is accredited. (#) indicates tests for which the lab is not accredited.

Date Issued: 1/16/2020
Reviewed By: Brandon Kessler

Mix Data

Supplier: CMC
Mix Identification: YE4010
Required Strength: 4000 at age 28 days

Material	Source	Amount	Moisture

Sample Details

Date Sampled: 12/19/19
Time Sampled: 8:35 AM
Time Batched:
General Location: Concrete Pavement South of Building
Sample Location: See Attached Location Diagram
Contractor: Wildcat Construction
Truck No.: 660
Weather: Cold
Batch Size (yd³): 9.3
Sampled By: Lupe Cardenas
Date Received: 12/24/19
Time Placed:
Ticket No.: 1092789
Yd³ Placed: 18.0

Specification:

		Measured	Specified
Slump (in):	ASTM C 143	4	
Slump w/ Plasticizer (in):			
Air Temp (°F):		30	
Concrete Temp (°F):	ASTM C 1064	69	
Air Content (%):	ASTM C 231	6.9	
Unit Weight (pcf):	ASTM C 138	137.6	
Water Added (gal)	**Before:**	**After:**	

Compressive Strength of Concrete Cylinders

ASTM C 39

Specimen ID	Date Tested	Age (Days)	Diameter (in)	Length (in)	Area (in²)	Type of Cap	Maximum Load (lbf)	Fracture Type / Remarks	Compressive Strength (psi)	Density (pcf)	Tested By
PEC-W23559-C1\1	12/27/19	8	4.00	8.00	12.57	U	59260	5	4720	139.7	JB2
PEC-W23559-C1\2	01/16/20	28	4.00	8.00	12.57	U	76460	5	6080	139.2	JB2
PEC-W23559-C1\3	01/16/20	28	4.00	8.00	12.57	U	72170	5	5740	139.7	JB2
PEC-W23559-C1\4	01/16/20	28	4.00	8.00	12.57	U	78780	5	6270	139.7	JB2
							Average 28 Day Compressive Strength (psi)		6030		
							Required Strength (psi)		4000		
PEC-W23559-C1\5		Hold	4.00	3.00	12.57	U				370.8	

Notes

1. Sampling to ASTM C 172
2. Specimen(s) prepared to ASTM C 31
3. Capping: B = Bonded ASTM C 617,U = Unbonded ASTM C 1231

Remarks

JB2 - John Ballinger
Fracture Type: 5 = Semi-Conical Break, 5 = Side fracture at top or bottom

Located At 350 South Washington
Mailing Address 303 South Topeka
Wichita, KS 67202
(316) 262-6457 www.pec1.com

Concrete Test Report

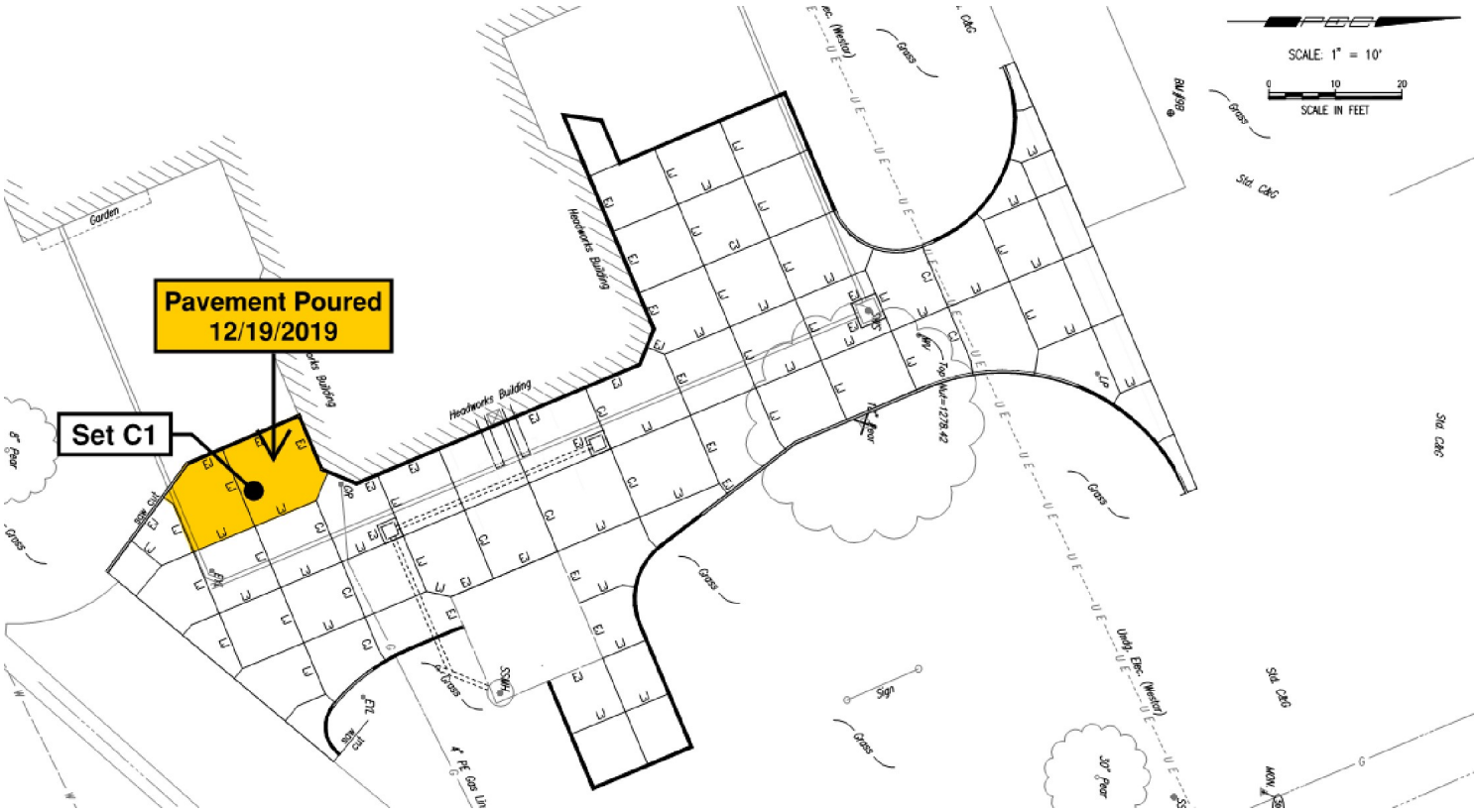
Project No.:	**190907-000.01**
Report No.:	**CTR:PEC-W23559-C1-2**

Client : Wildcat Construction Co., Inc.
Project : Plant 1 Head Works Paving Testing
3100 S Grove
Wichita KS
Project Manager : Luke A Rogers

CC:
Nathan Adams, Tom Costello

Accreditation is granted by AAP and this accreditation is limited to the laboratory and the standards for which the laboratory is accredited. (#) indicates tests for which the lab is not accredited.

Date Issued: 1/16/2020
Reviewed By: Brandon Kessler



Concrete Sample Location 12/19/2019

PEC FIELD SERVICES

Located At 350 South Washington
Mailing Address 303 South Topeka
Wichita, KS 67202
(316) 262-6457 www.pec1.com

Concrete Test Report

Project No.: 190907-000.01
Report No.: CTR:PEC-W23920-C1-1

Client : Wildcat Construction Co., Inc.
Project : Plant 1 Head Works Paving Testing
3100 S Grove
Wichita KS
Project Manager : Luke A Rogers

CC: Nathan Adams, Tom Costello

Accreditation is granted by AAP and this accreditation is limited to the laboratory and the standards for which the laboratory is accredited. (#) indicates tests for which the lab is not accredited.

Date Issued: 1/23/2020
Reviewed By: Brandon Kessler

Mix Data

Supplier: CMC
Mix Identification: XI4000
Required Strength: 4000 at age 28 days

Material	Source	Amount	Moisture

Sample Details

Date Sampled: 01/16/20 **Sampled By:** Jesus Rojas
Time Sampled: 9:35 AM **Date Received:** 01/17/20
Time Batched: 9:10 AM **Time Placed:**
General Location: Trench Patch Head Works Building Floor Slab
Sample Location: Middle of Trench
Contractor: Wildcat Construction
Truck No.: 503 **Ticket No.:** 14093541
Weather: Cold
Batch Size (yd³): 2.8 **Yd³ Placed:** 2.8

Specification:

		Measured	Specified
Slump (in):	ASTM C 143	4	
Slump w/ Plasticizer (in):			
Air Temp (°F):		65	
Concrete Temp (°F):	ASTM C 1064	60	
Air Content (%):	ASTM C 231	3.0	
Unit Weight (pcf):	ASTM C 138	144.9	
Water Added (gal)	**Before:**	**After:**	

Compressive Strength of Concrete Cylinders — ASTM C 39

Specimen ID	Date Tested	Age (Days)	Diameter (in)	Length (in)	Area (in²)	Type of Cap	Maximum Load (lbf)	Fracture Type / Remarks	Compressive Strength (psi)	Density (pcf)	Tested By
PEC-W23920-C1\1	01/23/20	7	4.00	8.00	12.57	U	57600	5	4580	145.1	JB2
PEC-W23920-C1\2	02/13/20	28	4.00	8.00	12.57	U				145.1	
PEC-W23920-C1\3	02/13/20	28	4.00	8.00	12.57	U				145.2	
PEC-W23920-C1\4	02/13/20	28	4.00	8.00	12.57	U				145.6	
									Average 28 Day Compressive Strength (psi)		
									Required Strength (psi) 4000		
PEC-W23920-C1\5		Hold	4.00	8.00	12.57	U				145.2	

Notes

1. Sampling to ASTM C 172
2. Specimen(s) prepared to ASTM C 31
3. Capping: B = Bonded ASTM C 617,U = Unbonded ASTM C 1231

Remarks

JB2 - John Ballinger
Fracture Type: 5 = Semi-Conical Break, 5 = Side fracture at top or bottom

PEC FIELD SERVICES

Located At 350 South Washington
Mailing Address 303 South Topeka
Wichita, KS 67202
(316) 262-6457 www.pec1.com

Concrete Test Report

Project No.: 190907-000.01
Report No.: CTR:PEC-W23920-C1-2

Client : Wildcat Construction Co., Inc.
Project : Plant 1 Head Works Paving Testing
3100 S Grove
Wichita KS
Project Manager : Luke A Rogers

CC: Alan Farrington, Tom Costello

Accreditation is granted by AAP and this accreditation is limited to the laboratory and the standards for which the laboratory is accredited. (#) indicates tests for which the lab is not accredited.

Date Issued: 2/13/2020
Reviewed By: Brandon Kessler

Mix Data

Supplier: CMC
Mix Identification: XI4000
Required Strength: 4000 at age 28 days

Material	Source	Amount	Moisture

Sample Details

Date Sampled: 01/16/20 **Sampled By:** Jesus Rojas
Time Sampled: 9:35 AM **Date Received:** 01/17/20
Time Batched: 9:10 AM **Time Placed:**
General Location: Trench Patch Head Works Building Floor Slab
Sample Location: Middle of Trench
Contractor: Wildcat Construction
Truck No.: 503 **Ticket No.:** 14093541
Weather: Cold
Batch Size (yd³): 2.8 **Yd³ Placed:** 2.8

Specification:

		Measured	Specified
Slump (in):	ASTM C 143	4	
Slump w/ Plasticizer (in):			
Air Temp (°F):		65	
Concrete Temp (°F):	ASTM C 1064	60	
Air Content (%):	ASTM C 231	3.0	
Unit Weight (pcf):	ASTM C 138	144.9	
Water Added (gal)	**Before:**	**After:**	

Compressive Strength of Concrete Cylinders — ASTM C 39

Specimen ID	Date Tested	Age (Days)	Diameter (in)	Length (in)	Area (in²)	Type of Cap	Maximum Load (lbf)	Fracture Type / Remarks	Compressive Strength (psi)	Density (pcf)	Tested By
PEC-W23920-C1\1	01/23/20	7	4.00	8.00	12.57	U	57600	5	4580	145.1	JB2
PEC-W23920-C1\2	02/13/20	28	4.00	8.00	12.57	U	76770	3	6110	145.1	PAY
PEC-W23920-C1\3	02/13/20	28	4.00	8.00	12.57	U	78130	3	6220	145.2	PAY
PEC-W23920-C1\4	02/13/20	28	4.00	8.00	12.57	U	80360	5	6390	145.6	PAY
								Average 28 Day Compressive Strength (psi)	6240		
								Required Strength (psi)	4000		
PEC-W23920-C1\5		Hold	4.00	8.00	12.57	U				145.2	

Notes

1. Sampling to ASTM C 172
2. Specimen(s) prepared to ASTM C 31
3. Capping: B = Bonded ASTM C 617,U = Unbonded ASTM C 1231

Remarks

JB2 - John Ballinger
PAY - Patrick Younkin
Fracture Type: 3 = C39: Vert cracking/no cones; C1314: Cone & Split, 3 = Columnar vertical cracking through both ends, no well formed cones, 5 = Semi-Conical Break, 5 = Side fracture at top or bottom

PEC FIELD SERVICES

Located At 350 South Washington
Mailing Address 303 South Topeka
Wichita, KS 67202
(316) 262-6457 www.pec1.com

Concrete Test Report

Project No.: 190907-000.01
Report No.: CTR:PEC-W23920-C1-1

Client : Wildcat Construction Co., Inc.
Project : Plant 1 Head Works Paving Testing
3100 S Grove
Wichita KS
Project Manager : Luke A Rogers

CC: Nathan Adams, Tom Costello

Accreditation is granted by AAP and this accreditation is limited to the laboratory and the standards for which the laboratory is accredited. (#) indicates tests for which the lab is not accredited.

Date Issued: 1/23/2020
Reviewed By: Brandon Kessler

Mix Data

Supplier: CMC
Mix Identification: XI4000
Required Strength: 4000 at age 28 days

Material	Source	Amount	Moisture

Sample Details

Date Sampled: 01/16/20 **Sampled By:** Jesus Rojas
Time Sampled: 9:35 AM **Date Received:** 01/17/20
Time Batched: 9:10 AM **Time Placed:**
General Location: Trench Patch Head Works Building Floor Slab
Sample Location: Middle of Trench
Contractor: Wildcat Construction
Truck No.: 503 **Ticket No.:** 14093541
Weather: Cold
Batch Size (yd³): 2.8 **Yd³ Placed:** 2.8

Specification:

		Measured	Specified
Slump (in):	ASTM C 143	4	
Slump w/ Plasticizer (in):			
Air Temp (°F):		65	
Concrete Temp (°F):	ASTM C 1064	60	
Air Content (%):	ASTM C 231	3.0	
Unit Weight (pcf):	ASTM C 138	144.9	
Water Added (gal)	**Before:**	**After:**	

Compressive Strength of Concrete Cylinders — ASTM C 39

Specimen ID	Date Tested	Age (Days)	Diameter (in)	Length (in)	Area (in²)	Type of Cap	Maximum Load (lbf)	Fracture Type / Remarks	Compressive Strength (psi)	Density (pcf)	Tested By
PEC-W23920-C1\1	01/23/20	7	4.00	8.00	12.57	U	57600	5	4580	145.1	JB2
PEC-W23920-C1\2	02/13/20	28	4.00	8.00	12.57	U				145.1	
PEC-W23920-C1\3	02/13/20	28	4.00	8.00	12.57	U				145.2	
PEC-W23920-C1\4	02/13/20	28	4.00	8.00	12.57	U				145.6	
									Average 28 Day Compressive Strength (psi)		
									Required Strength (psi) 4000		
PEC-W23920-C1\5		Hold	4.00	8.00	12.57	U				145.2	

Notes

1. Sampling to ASTM C 172
2. Specimen(s) prepared to ASTM C 31
3. Capping: B = Bonded ASTM C 617,U = Unbonded ASTM C 1231

Remarks

JB2 - John Ballinger
Fracture Type: 5 = Semi-Conical Break, 5 = Side fracture at top or bottom

PEC FIELD SERVICES

Located At 350 South Washington
Mailing Address 303 South Topeka
Wichita, KS 67202
(316) 262-6457 www.pec1.com

Concrete Test Report

Project No.: 190907-000.01
Report No.: CTR:PEC-W24314-C1-1

Client : Wildcat Construction Co., Inc.
Project : Plant 1 Head Works Paving Testing
3100 S Grove
Wichita KS
Project Manager : Luke A Rogers

CC: Alan Farrington, Tom Costello

Accreditation is granted by AAP and this accreditation is limited to the laboratory and the standards for which the laboratory is accredited. (#) indicates tests for which the lab is not accredited.

Date Issued: 2/20/2020
Reviewed By: Brandon Kessler

Mix Data

Supplier: CMC
Mix Identification: XI4000
Required Strength: 4000 at age 28 days

Material	Source	Amount	Moisture

Sample Details

Date Sampled: 02/13/20 **Sampled By:** Jesus Rojas
Time Sampled: 12:35 PM **Date Received:** 02/14/20
Time Batched: 12:15 PM **Time Placed:**
General Location: Slab Patch - Inside Head Works Building
Sample Location: Floor Patch East Side of Bar Screens
Contractor: Wildcat Construction
Truck No.: 510 **Ticket No.:** 1094212
Weather: Sunny/Cold
Batch Size (yd³): 1.3 **Yd³ Placed:** 1.3

Specification:

		Measured	Specified
Slump (in):	ASTM C 143	1.5	
Slump w/ Plasticizer (in):			
Air Temp (°F):		15	
Concrete Temp (°F):	ASTM C 1064	55	
Air Content (%):	ASTM C 231	2.0	
Unit Weight (pcf):	ASTM C 138	146.5	
Water Added (gal)	**Before:** 3	**After:**	

Compressive Strength of Concrete Cylinders — ASTM C 39

Specimen ID	Date Tested	Age (Days)	Diameter (in)	Length (in)	Area (in²)	Type of Cap	Maximum Load (lbf)	Fracture Type / Remarks	Compressive Strength (psi)	Density (pcf)	Tested By
PEC-W24314-C1\1	02/20/20	7	4.00	8.00	12.57	U	71290	2	5670	148.2	PAY
PEC-W24314-C1\2	03/12/20	28	4.00	8.00	12.57	U				147.5	
PEC-W24314-C1\3	03/12/20	28	4.00	8.00	12.57	U				147.3	
PEC-W24314-C1\4	03/12/20	28	4.00	8.00	12.57	U				147.3	
								Average 28 Day Compressive Strength (psi)			
								Required Strength (psi)	4000		
PEC-W24314-C1\5		Hold	4.00	8.00	12.57	U				147.1	

Notes

1. Sampling to ASTM C 172
2. Specimen(s) prepared to ASTM C 31
3. Capping: B = Bonded ASTM C 617,U = Unbonded ASTM C 1231

Remarks

PAY - Patrick Younkin
Fracture Type: 2 = Cone & Shear, 2 = Well formed cone on one end, vertical cracks running through caps

PEC FIELD SERVICES

Located At 350 South Washington
Mailing Address 303 South Topeka
Wichita, KS 67202
(316) 262-6457 www.pec1.com

Concrete Test Report

Project No.: 190907-000.01
Report No.: CTR:PEC-W24314-C1-2

Client : Wildcat Construction Co., Inc.
Project : Plant 1 Head Works Paving
Testing
3100 S Grove
Wichita KS
Project Manager : Luke A Rogers

CC: Alan Farrington, Tom Costello

Accreditation is granted by AAP and this accreditation is limited to the laboratory and the standards for which the laboratory is accredited. (#) indicates tests for which the lab is not accredited.

Date Issued: 3/12/2020
Reviewed By: Brandon Kessler

Mix Data

Supplier: CMC
Mix Identification: XI4000
Required Strength: 4000 at age 28 days

Material	Source	Amount	Moisture

Sample Details

Date Sampled: 02/13/20 **Sampled By:** Jesus Rojas
Time Sampled: 12:35 PM **Date Received:** 02/14/20
Time Batched: 12:15 PM **Time Placed:**
General Location: Slab Patch - Inside Head Works Building
Sample Location: Floor Patch East Side of Bar Screens
Contractor: Wildcat Construction
Truck No.: 510 **Ticket No.:** 1094212
Weather: Sunny/Cold
Batch Size (yd³): 1.3 **Yd³ Placed:** 1.3

Specification:

		Measured	Specified
Slump (in):	ASTM C 143	1.5	
Slump w/ Plasticizer (in):			
Air Temp (°F):		15	
Concrete Temp (°F):	ASTM C 1064	55	
Air Content (%):	ASTM C 231	2.0	
Unit Weight (pcf):	ASTM C 138	146.5	
Water Added (gal)	**Before:** 3	**After:**	

Compressive Strength of Concrete Cylinders — ASTM C 39

Specimen ID	Date Tested	Age (Days)	Diameter (in)	Length (in)	Area (in²)	Type of Cap	Maximum Load (lbf)	Fracture Type / Remarks	Compressive Strength (psi)	Density (pcf)	Tested By
PEC-W24314-C1\1	02/20/20	7	4.00	8.00	12.57	U	71290	2	5670	148.2	PAY
PEC-W24314-C1\2	03/12/20	28	4.00	8.00	12.57	U	93490	5	7440	147.5	PAY
PEC-W24314-C1\3	03/12/20	28	4.00	8.00	12.57	U	92380	2	7350	147.3	PAY
PEC-W24314-C1\4	03/12/20	28	4.00	8.00	12.57	U	93470	5	7440	147.3	PAY
							Average 28 Day Compressive Strength (psi)		7410		
							Required Strength (psi)		4000		
PEC-W24314-C1\5		Hold	4.00	8.00	12.57	U				147.1	

Notes

1. Sampling to ASTM C 172
2. Specimen(s) prepared to ASTM C 31
3. Capping: B = Bonded ASTM C 617,U = Unbonded ASTM C 1231

Remarks

PAY - Patrick Younkin
Fracture Type: 2 = Cone & Shear, 2 = Well formed cone on one end, vertical cracks running through caps, 5 = Semi-Conical Break, 5 = Side fracture at top or bottom

PEC FIELD SERVICES

Located At 350 South Washington
Mailing Address 303 South Topeka
Wichita, KS 67202
(316) 262-6457 www.pec1.com

Concrete Test Report

Project No.: 190907-000.01
Report No.: CTR:PEC-W24314-C1-2

Client : Wildcat Construction Co., Inc.
Project : Plant 1 Head Works Paving
Testing
3100 S Grove
Wichita KS
Project Manager : Luke A Rogers

CC: Alan Farrington, Tom Costello

Accreditation is granted by AAP and this accreditation is limited to the laboratory and the standards for which the laboratory is accredited. (#) indicates tests for which the lab is not accredited.

Date Issued: 3/12/2020
Reviewed By: Brandon Kessler

Mix Data

Supplier: CMC
Mix Identification: XI4000
Required Strength: 4000 at age 28 days

Material	Source	Amount	Moisture

Sample Details

Date Sampled: 02/13/20 **Sampled By:** Jesus Rojas
Time Sampled: 12:35 PM **Date Received:** 02/14/20
Time Batched: 12:15 PM **Time Placed:**
General Location: Slab Patch - Inside Head Works Building
Sample Location: Floor Patch East Side of Bar Screens
Contractor: Wildcat Construction
Truck No.: 510 **Ticket No.:** 1094212
Weather: Sunny/Cold
Batch Size (yd³): 1.3 **Yd³ Placed:** 1.3

Specification:

		Measured	Specified
Slump (in):	ASTM C 143	1.5	
Slump w/ Plasticizer (in):			
Air Temp (°F):		15	
Concrete Temp (°F):	ASTM C 1064	55	
Air Content (%):	ASTM C 231	2.0	
Unit Weight (pcf):	ASTM C 138	146.5	
Water Added (gal)	**Before:** 3	**After:**	

Compressive Strength of Concrete Cylinders — ASTM C 39

Specimen ID	Date Tested	Age (Days)	Diameter (in)	Length (in)	Area (in²)	Type of Cap	Maximum Load (lbf)	Fracture Type / Remarks	Compressive Strength (psi)	Density (pcf)	Tested By
PEC-W24314-C1\1	02/20/20	7	4.00	8.00	12.57	U	71290	2	5670	148.2	PAY
PEC-W24314-C1\2	03/12/20	28	4.00	8.00	12.57	U	93490	5	7440	147.5	PAY
PEC-W24314-C1\3	03/12/20	28	4.00	8.00	12.57	U	92380	2	7350	147.3	PAY
PEC-W24314-C1\4	03/12/20	28	4.00	8.00	12.57	U	93470	5	7440	147.3	PAY
							Average 28 Day Compressive Strength (psi)		7410		
							Required Strength (psi)		4000		
PEC-W24314-C1\5		Hold	4.00	8.00	12.57	U				147.1	

Notes

1. Sampling to ASTM C 172
2. Specimen(s) prepared to ASTM C 31
3. Capping: B = Bonded ASTM C 617,U = Unbonded ASTM C 1231

Remarks

PAY - Patrick Younkin
Fracture Type: 2 = Cone & Shear, 2 = Well formed cone on one end, vertical cracks running through caps, 5 = Semi-Conical Break, 5 = Side fracture at top or bottom

PEC FIELD SERVICES

Located At 350 South Washington
Mailing Address 303 South Topeka
Wichita, KS 67202
(316) 262-6457 www.pec1.com

Concrete Test Report

Project No.: 190907-000.01
Report No.: CTR:PEC-W25011-C1-1

Client : Wildcat Construction Co., Inc.
Project : Plant 1 Head Works Paving Testing
3100 S Grove
Wichita KS
Project Manager : Luke A Rogers

CC: Alan Farrington, Tom Costello

Accreditation is granted by AAP and this accreditation is limited to the laboratory and the standards for which the laboratory is accredited. (#) indicates tests for which the lab is not accredited.

Date Issued: 4/14/2020
Reviewed By: Luke Rogers

Mix Data

Supplier: CMC
Required Strength: 4000 at age 28 days

Material	Source	Amount	Moisture

Sample Details

Date Sampled: 04/07/20
Sampled By: Corey Aurell
Time Sampled: 11:58 AM
Date Received: 04/08/20
Time Batched:
Time Placed:
General Location: Interior Patch
Sample Location: Interior Patch
Contractor: Wildcat Construction
Truck No.: 543
Ticket No.:
Weather: Partly cloudy
Batch Size (yd³): 1.5
Yd³ Placed: 1.5

Specification:

		Measured	Specified
Slump (in):	ASTM C 143	4.25	
Slump w/ Plasticizer (in):			
Air Temp (°F):		70	
Concrete Temp (°F):	ASTM C 1064	69	
Air Content (%):	ASTM C 231	2.0	
Unit Weight (pcf):	ASTM C 138	146.4	
Water Added (gal)	**Before:**	**After:**	

Compressive Strength of Concrete Cylinders — ASTM C 39

Specimen ID	Date Tested	Age (Days)	Diameter (in)	Length (in)	Area (in²)	Type of Cap	Maximum Load (lbf)	Fracture Type / Remarks	Compressive Strength (psi)	Density (pcf)	Tested By
PEC-W25011-C1\1	04/14/20	7	4.00	8.00	12.57	U	48530	5	3860	145.1	JB2
PEC-W25011-C1\2	05/05/20	28	4.00	8.00	12.57	U				145.2	
PEC-W25011-C1\3	05/05/20	28	4.00	8.00	12.57	U				145.4	
PEC-W25011-C1\4	05/05/20	28	4.00	8.00	12.57	U				145.4	
							Average 28 Day Compressive Strength (psi)				
							Required Strength (psi)		4000		
PEC-W25011-C1\5		Hold	4.00	8.00	12.57	U				145.1	

Notes

1. Sampling to ASTM C 172
2. Specimen(s) prepared to ASTM C 31
3. Capping: B = Bonded ASTM C 617,U = Unbonded ASTM C 1231

Remarks

JB2 - John Ballinger
Fracture Type: 5 = Semi-Conical Break, 5 = Side fracture at top or bottom

PEC FIELD SERVICES

Located At 350 South Washington
Mailing Address 303 South Topeka
Wichita, KS 67202
(316) 262-6457 www.pec1.com

Concrete Test Report

Project No.: 190907-000.01
Report No.: CTR:PEC-W25011-C1-2

Client : Wildcat Construction Co., Inc.
Project : Plant 1 Head Works Paving Testing
3100 S Grove
Wichita KS
Project Manager : Luke A Rogers

CC: Alan Farrington, Tom Costello

Accreditation is granted by AAP and this accreditation is limited to the laboratory and the standards for which the laboratory is accredited. (#) indicates tests for which the lab is not accredited.

Date Issued: 5/5/2020
Reviewed By: Brandon Kessler

Mix Data

Supplier: CMC
Required Strength: 4000 at age 28 days

Material	Source	Amount	Moisture

Sample Details

Date Sampled: 04/07/20
Sampled By: Corey Aurell
Time Sampled: 11:58 AM
Date Received: 04/08/20
Time Batched:
Time Placed:
General Location: Interior Patch
Sample Location: Interior Patch
Contractor: Wildcat Construction
Truck No.: 543
Ticket No.:
Weather: Partly cloudy
Batch Size (yd³): 1.5
Yd³ Placed: 1.5

Specification:

		Measured	Specified
Slump (in):	ASTM C 143	4.25	
Slump w/ Plasticizer (in):			
Air Temp (°F):		70	
Concrete Temp (°F):	ASTM C 1064	69	
Air Content (%):	ASTM C 231	2.0	
Unit Weight (pcf):	ASTM C 138	146.4	
Water Added (gal)	**Before:**	**After:**	

Compressive Strength of Concrete Cylinders

ASTM C 39

Specimen ID	Date Tested	Age (Days)	Diameter (in)	Length (in)	Area (in²)	Type of Cap	Maximum Load (lbf)	Fracture Type / Remarks	Compressive Strength (psi)	Density (pcf)	Tested By
PEC-W25011-C1\1	04/14/20	7	4.00	8.00	12.57	U	48530	5	3860	145.1	JB2
PEC-W25011-C1\2	05/05/20	28	4.00	8.00	12.57	U	61320	5	4880	145.2	JB2
PEC-W25011-C1\3	05/05/20	28	4.00	8.00	12.57	U	62250	5	4950	145.4	JB2
PEC-W25011-C1\4	05/05/20	28	4.00	8.00	12.57	U	62150	5	4950	145.4	JB2
							Average 28 Day Compressive Strength (psi)		4930		
							Required Strength (psi)		4000		
PEC-W25011-C1\5		Hold	4.00	8.00	12.57	U				145.1	

Notes

1. Sampling to ASTM C 172
2. Specimen(s) prepared to ASTM C 31
3. Capping: B = Bonded ASTM C 617,U = Unbonded ASTM C 1231

Remarks

JB2 - John Ballinger
Fracture Type: 5 = Semi-Conical Break, 5 = Side fracture at top or bottom

PEC FIELD SERVICES

Located At 350 South Washington
Mailing Address 303 South Topeka
Wichita, KS 67202
(316) 262-6457 www.pec1.com

Concrete Test Report

Project No.: 190907-000.01
Report No.: CTR:PEC-W25780-C1-1

Client : Wildcat Construction Co., Inc.
Project : Plant 1 Head Works Paving Testing
3100 S Grove
Wichita KS
Project Manager : Luke A Rogers

CC: Alan Farrington, Tom Costello

Accreditation is granted by AAP and this accreditation is limited to the laboratory and the standards for which the laboratory is accredited. (#) indicates tests for which the lab is not accredited.

Date Issued: 6/5/2020
Reviewed By: Luke Rogers

Mix Data

Supplier: CMC
Mix Identification: XI4000
Required Strength: 4000 at age 28 days

Material	Source	Amount	Moisture

Sample Details

Date Sampled: 05/29/20
Time Sampled: 11:45 AM
Time Batched: 10:35 AM
General Location: WWTP
Sample Location: Inside Trench
Contractor: Wildcat Construction
Truck No.: 669
Weather: hot
Batch Size (yd³): 4.0
Sampled By: Lupe Cardenas
Date Received: 06/01/20
Time Placed:
Ticket No.: 1098786
Yd³ Placed: 4.0

Specification:

		Measured	Specified
Slump (in):	ASTM C 143	5	
Slump w/ Plasticizer (in):			
Air Temp (°F):		76	
Concrete Temp (°F):	ASTM C 1064	72	
Air Content (%):	ASTM C 231	1.8	
Unit Weight (pcf):	ASTM C 138	142.0	
Water Added (gal)	**Before:**	**After:**	

Compressive Strength of Concrete Cylinders — ASTM C 39

Specimen ID	Date Tested	Age (Days)	Diameter (in)	Length (in)	Area (in²)	Type of Cap	Maximum Load (lbf)	Fracture Type / Remarks	Compressive Strength (psi)	Density (pcf)	Tested By
PEC-W25780-C1\1	06/05/20	7	4.00	8.00	12.57	U	53910	5	4290	146.8	JB2
PEC-W25780-C1\2	06/26/20	28	4.00	8.00	12.57	U				146.8	
PEC-W25780-C1\3	06/26/20	28	4.00	8.00	12.57	U				146.6	
PEC-W25780-C1\4	06/26/20	28	4.00	8.00	12.57	U				145.9	
								Average 28 Day Compressive Strength (psi)			
								Required Strength (psi)	4000		
PEC-W25780-C1\5		Hold	4.00	8.00	12.57	U				146.8	

Notes

1. Sampling to ASTM C 172
2. Specimen(s) prepared to ASTM C 31
3. Capping: B = Bonded ASTM C 617,U = Unbonded ASTM C 1231

Remarks

JB2 - John Ballinger
Fracture Type: 5 = Semi-Conical Break, 5 = Side fracture at top or bottom

PEC FIELD SERVICES

Located At 350 South Washington
Mailing Address 303 South Topeka
Wichita, KS 67202
(316) 262-6457 www.pec1.com

Concrete Test Report

Project No.: 190907-000.01
Report No.: CTR:PEC-W25780-C1-2

Client : Wildcat Construction Co., Inc.
Project : Plant 1 Head Works Paving Testing
3100 S Grove
Wichita KS
Project Manager : Luke A Rogers

CC: Alan Farrington, Tom Costello

Accreditation is granted by AAP and this accreditation is limited to the laboratory and the standards for which the laboratory is accredited. (#) indicates tests for which the lab is not accredited.

Luke A Rogers

Date Issued: 6/26/2020
Reviewed By: Luke Rogers

Mix Data

Supplier: CMC
Mix Identification: XI4000
Required Strength: 4000 at age 28 days

Material	Source	Amount	Moisture

Sample Details

Date Sampled: 05/29/20
Time Sampled: 11:45 AM
Time Batched: 10:35 AM
General Location: WWTP
Sample Location: Inside Trench
Contractor: Wildcat Construction
Truck No.: 669
Weather: hot
Batch Size (yd³): 4.0
Sampled By: Lupe Cardenas
Date Received: 06/01/20
Time Placed:
Ticket No.: 1098786
Yd³ Placed: 4.0

Specification:

		Measured	Specified
Slump (in):	ASTM C 143	5	
Slump w/ Plasticizer (in):			
Air Temp (°F):		76	
Concrete Temp (°F):	ASTM C 1064	72	
Air Content (%):	ASTM C 231	1.8	
Unit Weight (pcf):	ASTM C 138	142.0	
Water Added (gal)	**Before:**	**After:**	

Compressive Strength of Concrete Cylinders — ASTM C 39

Specimen ID	Date Tested	Age (Days)	Diameter (in)	Length (in)	Area (in²)	Type of Cap	Maximum Load (lbf)	Fracture Type / Remarks	Compressive Strength (psi)	Density (pcf)	Tested By
PEC-W25780-C1\1	06/05/20	7	4.00	8.00	12.57	U	53910	5	4290	146.8	JB2
PEC-W25780-C1\2	06/26/20	28	4.00	8.00	12.57	U	67080	5	5340	146.8	
PEC-W25780-C1\3	06/26/20	28	4.00	8.00	12.57	U	68390	5	5440	146.6	
PEC-W25780-C1\4	06/26/20	28	4.00	8.00	12.57	U	63210	5	5030	145.9	
							Average 28 Day Compressive Strength (psi)		5270		
							Required Strength (psi)		4000		
PEC-W25780-C1\5		Hold	4.00	8.00	12.57	U				146.8	

Notes

1. Sampling to ASTM C 172
2. Specimen(s) prepared to ASTM C 31
3. Capping: B = Bonded ASTM C 617,U = Unbonded ASTM C 1231

Remarks

JB2 - John Ballinger
Fracture Type: 5 = Semi-Conical Break, 5 = Side fracture at top or bottom

PEC FIELD SERVICES

Located At 350 South Washington
Mailing Address 303 South Topeka
Wichita, KS 67202
(316) 262-6457 www.pec1.com

Concrete Test Report

Project No.: 190907-000.01
Report No.: CTR:PEC-W25780-C1-1

Client : Wildcat Construction Co., Inc.
Project : Plant 1 Head Works Paving Testing
3100 S Grove
Wichita KS
Project Manager : Luke A Rogers

CC: Alan Farrington, Tom Costello

Accreditation is granted by AAP and this accreditation is limited to the laboratory and the standards for which the laboratory is accredited. (#) indicates tests for which the lab is not accredited.

Date Issued: 6/5/2020
Reviewed By: Luke Rogers

Mix Data

Supplier: CMC
Mix Identification: XI4000
Required Strength: 4000 at age 28 days

Material	Source	Amount	Moisture

Sample Details

Date Sampled: 05/29/20
Time Sampled: 11:45 AM
Time Batched: 10:35 AM
General Location: WWTP
Sample Location: Inside Trench
Contractor: Wildcat Construction
Truck No.: 669
Weather: hot
Batch Size (yd³): 4.0
Sampled By: Lupe Cardenas
Date Received: 06/01/20
Time Placed:
Ticket No.: 1098786
Yd³ Placed: 4.0

Specification:

		Measured	Specified
Slump (in):	ASTM C 143	5	
Slump w/ Plasticizer (in):			
Air Temp (°F):		76	
Concrete Temp (°F):	ASTM C 1064	72	
Air Content (%):	ASTM C 231	1.8	
Unit Weight (pcf):	ASTM C 138	142.0	
Water Added (gal)	**Before:**	**After:**	

Compressive Strength of Concrete Cylinders — ASTM C 39

Specimen ID	Date Tested	Age (Days)	Diameter (in)	Length (in)	Area (in²)	Type of Cap	Maximum Load (lbf)	Fracture Type / Remarks	Compressive Strength (psi)	Density (pcf)	Tested By
PEC-W25780-C1\1	06/05/20	7	4.00	8.00	12.57	U	53910	5	4290	146.8	JB2
PEC-W25780-C1\2	06/26/20	28	4.00	8.00	12.57	U				146.8	
PEC-W25780-C1\3	06/26/20	28	4.00	8.00	12.57	U				146.6	
PEC-W25780-C1\4	06/26/20	28	4.00	8.00	12.57	U				145.9	
								Average 28 Day Compressive Strength (psi)			
								Required Strength (psi)	4000		
PEC-W25780-C1\5		Hold	4.00	8.00	12.57	U				146.8	

Notes

1. Sampling to ASTM C 172
2. Specimen(s) prepared to ASTM C 31
3. Capping: B = Bonded ASTM C 617,U = Unbonded ASTM C 1231

Remarks

JB2 - John Ballinger
Fracture Type: 5 = Semi-Conical Break, 5 = Side fracture at top or bottom

PEC FIELD SERVICES

Located At 350 South Washington
Mailing Address 303 South Topeka
Wichita, KS 67202
(316) 262-6457 www.pec1.com

Concrete Test Report

Project No.: 190907-000.01
Report No.: CTR:PEC-W25780-C1-2

Client : Wildcat Construction Co., Inc.
Project : Plant 1 Head Works Paving Testing
3100 S Grove
Wichita KS
Project Manager : Luke A Rogers

CC: Alan Farrington, Tom Costello

Accreditation is granted by AAP and this accreditation is limited to the laboratory and the standards for which the laboratory is accredited. (#) indicates tests for which the lab is not accredited.

Luke A Rogers

Date Issued: 6/26/2020
Reviewed By: Luke Rogers

Mix Data

Supplier: CMC
Mix Identification: XI4000
Required Strength: 4000 at age 28 days

Material	Source	Amount	Moisture

Sample Details

Date Sampled: 05/29/20
Time Sampled: 11:45 AM
Time Batched: 10:35 AM
General Location: WWTP
Sample Location: Inside Trench
Contractor: Wildcat Construction
Truck No.: 669
Weather: hot
Batch Size (yd³): 4.0
Sampled By: Lupe Cardenas
Date Received: 06/01/20
Time Placed:
Ticket No.: 1098786
Yd³ Placed: 4.0

Specification:

		Measured	Specified
Slump (in):	ASTM C 143	5	
Slump w/ Plasticizer (in):			
Air Temp (°F):		76	
Concrete Temp (°F):	ASTM C 1064	72	
Air Content (%):	ASTM C 231	1.8	
Unit Weight (pcf):	ASTM C 138	142.0	
Water Added (gal)	**Before:**	**After:**	

Compressive Strength of Concrete Cylinders — ASTM C 39

Specimen ID	Date Tested	Age (Days)	Diameter (in)	Length (in)	Area (in²)	Type of Cap	Maximum Load (lbf)	Fracture Type / Remarks	Compressive Strength (psi)	Density (pcf)	Tested By
PEC-W25780-C1\1	06/05/20	7	4.00	8.00	12.57	U	53910	5	4290	146.8	JB2
PEC-W25780-C1\2	06/26/20	28	4.00	8.00	12.57	U	67080	5	5340	146.8	
PEC-W25780-C1\3	06/26/20	28	4.00	8.00	12.57	U	68390	5	5440	146.6	
PEC-W25780-C1\4	06/26/20	28	4.00	8.00	12.57	U	63210	5	5030	145.9	
							Average 28 Day Compressive Strength (psi)		5270		
							Required Strength (psi)		4000		
PEC-W25780-C1\5		Hold	4.00	8.00	12.57	U				146.8	

Notes

1. Sampling to ASTM C 172
2. Specimen(s) prepared to ASTM C 31
3. Capping: B = Bonded ASTM C 617,U = Unbonded ASTM C 1231

Remarks

JB2 - John Ballinger
Fracture Type: 5 = Semi-Conical Break, 5 = Side fracture at top or bottom

Located At 350 South Washington
Mailing Address 303 South Topeka
Wichita, KS 67202
(316) 262-6457 www.pec1.com

Concrete Test Report

Project No.: 190907-000.01
Report No.: CTR:PEC-W26440-C1-1

Client : Wildcat Construction Co., Inc.
Project : Plant 1 Head Works Paving
Testing
3100 S Grove
Wichita KS
Project Manager : Luke A Rogers

CC: Alan Farrington, Tom Costello

Accreditation is granted by AAP and this accreditation is limited to the laboratory and the standards for which the laboratory is accredited. (#) indicates tests for which the lab is not accredited.

Date Issued: 7/16/2020
Reviewed By: Brandon Kessler

Mix Data

Supplier: CMC
Mix Identification: XI 4503
Required Strength: 4000 at age 28 days

Material	Source	Amount	Moisture

Sample Details

Date Sampled: 07/10/20
Time Sampled: 9:00 AM
Time Batched: 8:27 AM
General Location: Plant # 1
Sample Location: North Floor Patch
Contractor: Wildcat Construction
Truck No.: 590
Weather: Cloudy/Rainy
Batch Size (yd³): 1.5
Sampled By: Lupe Cardenas
Date Received:
Time Placed:
Ticket No.: 1100137
Yd³ Placed: 1.5

Specification:

		Measured	Specified
Slump (in):	ASTM C 143	6	
Slump w/ Plasticizer (in):			
Air Temp (°F):		72	
Concrete Temp (°F):	ASTM C 1064	76	
Air Content (%):	ASTM C 231	2.3	
Unit Weight (pcf):	ASTM C 138	147.0	
Water Added (gal)	**Before:**	**After:**	

Compressive Strength of Concrete Cylinders

ASTM C 39

Specimen ID	Date Tested	Age (Days)	Diameter (in)	Length (in)	Area (in²)	Type of Cap	Maximum Load (lbf)	Fracture Type / Remarks	Compressive Strength (psi)	Density (pcf)	Tested By
PEC-W26440-C1\1	07/16/20	6	4.00	8.00	12.57	U	46080	5	3670	141.8	JB2
PEC-W26440-C1\2	07/17/20	7	4.00	8.00	12.57	U				141.6	
PEC-W26440-C1\3	08/07/20	28	4.00	8.00	12.57	U				141.8	
PEC-W26440-C1\4	08/07/20	28	4.00	8.00	12.57	U				141.1	
PEC-W26440-C1\5	08/07/20	28	4.00	8.00	12.57	U				142.0	
							Average 28 Day Compressive Strength (psi)				
							Required Strength (psi)		4000		
PEC-W26440-C1\6	11/25/47	9999	4.00	8.00	12.57	U				142.0	

Notes

1. Sampling to ASTM C 172
2. Specimen(s) prepared to ASTM C 31
3. Capping: B = Bonded ASTM C 617,U = Unbonded ASTM C 1231

Remarks

JB2 - John Ballinger
Fracture Type: 5 = Semi-Conical Break, 5 = Side fracture at top or bottom

PEC FIELD SERVICES

Located At 350 South Washington
Mailing Address 303 South Topeka
Wichita, KS 67202
(316) 262-6457 www.pec1.com

Concrete Test Report

Project No.: 190907-000.01
Report No.: CTR:PEC-W26440-C1-2

Client : Wildcat Construction Co., Inc.
Project : Plant 1 Head Works Paving
Testing
3100 S Grove
Wichita KS
Project Manager : Luke A Rogers

CC: Alan Farrington, Tom Costello

Accreditation is granted by AAP and this accreditation is limited to the laboratory and the standards for which the laboratory is accredited. (#) indicates tests for which the lab is not accredited.

Date Issued: 7/17/2020
Reviewed By: Brandon Kessler

Mix Data

Supplier: CMC
Mix Identification: XI 4503
Required Strength: 4000 at age 28 days

Material	Source	Amount	Moisture

Sample Details

Date Sampled: 07/10/20
Time Sampled: 8:27 AM
Time Batched: 8:27 AM
General Location: Plant # 1
Sample Location: North Floor Patch
Contractor: Wildcat Construction
Truck No.: 590
Weather: Cloudy/Rainy
Batch Size (yd³): 1.5
Sampled By: Juan Solorzano
Date Received:
Time Placed:
Ticket No.: 1100137
Yd³ Placed: 1.5

Specification:

		Measured	Specified
Slump (in):	ASTM C 143	6	
Slump w/ Plasticizer (in):			
Air Temp (°F):		72	
Concrete Temp (°F):	ASTM C 1064	76	
Air Content (%):	ASTM C 231	2.3	
Unit Weight (pcf):	ASTM C 138	147.0	
Water Added (gal)	**Before:**	**After:**	

Compressive Strength of Concrete Cylinders — ASTM C 39

Specimen ID	Date Tested	Age (Days)	Diameter (in)	Length (in)	Area (in²)	Type of Cap	Maximum Load (lbf)	Fracture Type / Remarks	Compressive Strength (psi)	Density (pcf)	Tested By
PEC-W26440-C1\1	07/17/20	7	4.00	8.00	12.57	U	40140	5	3190	146.8	JB2
PEC-W26440-C1\2	08/07/20	28	4.00	8.00	12.57	U				146.4	
PEC-W26440-C1\3	08/07/20	28	4.00	8.00	12.57	U				146.6	
PEC-W26440-C1\4	08/07/20	28	4.00	8.00	12.57	U				144.7	
							Average 28 Day Compressive Strength (psi)				
							Required Strength (psi)		4000		
PEC-W26440-C1\5		Hold	4.00	8.00	12.57	U				146.4	
PEC-W26440-C1\6		Hold	4.00	8.00	12.57	U				146.3	

Notes

1. Sampling to ASTM C 172
2. Specimen(s) prepared to ASTM C 31
3. Capping: B = Bonded ASTM C 617,U = Unbonded ASTM C 1231

Remarks

JB2 - John Ballinger
Fracture Type: 5 = Semi-Conical Break, 5 = Side fracture at top or bottom

PEC FIELD SERVICES

Located At 350 South Washington
Mailing Address 303 South Topeka
Wichita, KS 67202
(316) 262-6457 www.pec1.com

Concrete Test Report

Project No.: 190907-000.01
Report No.: CTR:PEC-W26440-C1-3

Client : Wildcat Construction Co., Inc.
Project : Plant 1 Head Works Paving Testing
3100 S Grove
Wichita KS
Project Manager : Luke A Rogers

CC: Alan Farrington, Tom Costello

Accreditation is granted by AAP and this accreditation is limited to the laboratory and the standards for which the laboratory is accredited. (#) indicates tests for which the lab is not accredited.

Date Issued: 8/7/2020
Reviewed By: Brandon Kessler

Mix Data

Supplier: CMC
Mix Identification: XI 4503
Required Strength: 4000 at age 28 days

Material	Source	Amount	Moisture

Sample Details

Date Sampled: 07/10/20
Time Sampled: 8:27 AM
Time Batched: 8:27 AM
General Location: Plant # 1
Sample Location: North Floor Patch
Contractor: Wildcat Construction
Truck No.: 590
Weather: Cloudy/Rainy
Batch Size (yd³): 1.5

Sampled By: Juan Solorzano
Date Received: 07/13/20
Time Placed:
Ticket No.: 1100137
Yd³ Placed: 1.5

Specification:

		Measured	Specified
Slump (in):	ASTM C 143	6	
Slump w/ Plasticizer (in):			
Air Temp (°F):		72	
Concrete Temp (°F):	ASTM C 1064	76	
Air Content (%):	ASTM C 231	2.3	
Unit Weight (pcf):	ASTM C 138	147.0	
Water Added (gal)	**Before:**	**After:**	

Compressive Strength of Concrete Cylinders — ASTM C 39

Specimen ID	Date Tested	Age (Days)	Diameter (in)	Length (in)	Area (in²)	Type of Cap	Maximum Load (lbf)	Fracture Type / Remarks	Compressive Strength (psi)	Density (pcf)	Tested By
PEC-W26440-C1\1	07/17/20	7	4.00	8.00	12.57	U	40140	5	3190	146.8	JB2
PEC-W26440-C1\2	08/07/20	28	4.00	8.00	12.57	U	67710	5	5390	146.4	JB2
PEC-W26440-C1\3	08/07/20	28	4.00	8.00	12.57	U	65160	5	5190	146.6	JB2
PEC-W26440-C1\4	08/07/20	28	4.00	8.00	12.57	U	64790	5	5160	144.7	JB2
							Average 28 Day Compressive Strength (psi)		5240		
							Required Strength (psi)		4000		
PEC-W26440-C1\5		Hold	4.00	8.00	12.57	U				146.4	
PEC-W26440-C1\6		Hold	4.00	8.00	12.57	U				146.3	

Notes

1. Sampling to ASTM C 172
2. Specimen(s) prepared to ASTM C 31
3. Capping: B = Bonded ASTM C 617,U = Unbonded ASTM C 1231

Remarks

JB2 - John Ballinger
Fracture Type: 5 = Semi-Conical Break, 5 = Side fracture at top or bottom

PEC FIELD SERVICES

Located At 350 South Washington
Mailing Address 303 South Topeka
Wichita, KS 67202
(316) 262-6457 www.pec1.com

Concrete Test Report

Project No.: 190907-000.01
Report No.: CTR:PEC-W26440-C1-2

Client : Wildcat Construction Co., Inc.
Project : Plant 1 Head Works Paving
Testing
3100 S Grove
Wichita KS
Project Manager : Luke A Rogers

CC: Alan Farrington, Tom Costello

Accreditation is granted by AAP and this accreditation is limited to the laboratory and the standards for which the laboratory is accredited. (#) indicates tests for which the lab is not accredited.

Date Issued: 7/17/2020
Reviewed By: Brandon Kessler

Mix Data

Supplier: CMC
Mix Identification: XI 4503
Required Strength: 4000 at age 28 days

Material	Source	Amount	Moisture

Sample Details

Date Sampled: 07/10/20
Time Sampled: 8:27 AM
Time Batched: 8:27 AM
General Location: Plant # 1
Sample Location: North Floor Patch
Contractor: Wildcat Construction
Truck No.: 590
Weather: Cloudy/Rainy
Batch Size (yd³): 1.5
Sampled By: Juan Solorzano
Date Received:
Time Placed:
Ticket No.: 1100137
Yd³ Placed: 1.5

Specification:

		Measured	Specified
Slump (in):	ASTM C 143	6	
Slump w/ Plasticizer (in):			
Air Temp (°F):		72	
Concrete Temp (°F):	ASTM C 1064	76	
Air Content (%):	ASTM C 231	2.3	
Unit Weight (pcf):	ASTM C 138	147.0	
Water Added (gal)	**Before:**	**After:**	

Compressive Strength of Concrete Cylinders — ASTM C 39

Specimen ID	Date Tested	Age (Days)	Diameter (in)	Length (in)	Area (in²)	Type of Cap	Maximum Load (lbf)	Fracture Type / Remarks	Compressive Strength (psi)	Density (pcf)	Tested By
PEC-W26440-C1\1	07/17/20	7	4.00	8.00	12.57	U	40140	5	3190	146.8	JB2
PEC-W26440-C1\2	08/07/20	28	4.00	8.00	12.57	U				146.4	
PEC-W26440-C1\3	08/07/20	28	4.00	8.00	12.57	U				146.6	
PEC-W26440-C1\4	08/07/20	28	4.00	8.00	12.57	U				144.7	
							Average 28 Day Compressive Strength (psi)				
							Required Strength (psi)		4000		
PEC-W26440-C1\5		Hold	4.00	8.00	12.57	U				146.4	
PEC-W26440-C1\6		Hold	4.00	8.00	12.57	U				146.3	

Notes

1. Sampling to ASTM C 172
2. Specimen(s) prepared to ASTM C 31
3. Capping: B = Bonded ASTM C 617,U = Unbonded ASTM C 1231

Remarks

JB2 - John Ballinger
Fracture Type: 5 = Semi-Conical Break, 5 = Side fracture at top or bottom

PEC FIELD SERVICES

Located At 350 South Washington
Mailing Address 303 South Topeka
Wichita, KS 67202
(316) 262-6457 www.pec1.com

Concrete Test Report

Project No.: 190907-000.01
Report No.: CTR:PEC-W26440-C1-3

Client : Wildcat Construction Co., Inc.
Project : Plant 1 Head Works Paving Testing
3100 S Grove
Wichita KS
Project Manager : Luke A Rogers

CC: Alan Farrington, Tom Costello

Accreditation is granted by AAP and this accreditation is limited to the laboratory and the standards for which the laboratory is accredited. (#) indicates tests for which the lab is not accredited.

Date Issued: 8/7/2020
Reviewed By: Brandon Kessler

Mix Data

Supplier: CMC
Mix Identification: XI 4503
Required Strength: 4000 at age 28 days

Material	Source	Amount	Moisture

Sample Details

Date Sampled: 07/10/20
Time Sampled: 8:27 AM
Time Batched: 8:27 AM
General Location: Plant # 1
Sample Location: North Floor Patch
Contractor: Wildcat Construction
Truck No.: 590
Weather: Cloudy/Rainy
Batch Size (yd³): 1.5

Sampled By: Juan Solorzano
Date Received: 07/13/20
Time Placed:
Ticket No.: 1100137
Yd³ Placed: 1.5

Specification:

		Measured	Specified
Slump (in):	ASTM C 143	6	
Slump w/ Plasticizer (in):			
Air Temp (°F):		72	
Concrete Temp (°F):	ASTM C 1064	76	
Air Content (%):	ASTM C 231	2.3	
Unit Weight (pcf):	ASTM C 138	147.0	
Water Added (gal)	**Before:**	**After:**	

Compressive Strength of Concrete Cylinders — ASTM C 39

Specimen ID	Date Tested	Age (Days)	Diameter (in)	Length (in)	Area (in²)	Type of Cap	Maximum Load (lbf)	Fracture Type / Remarks	Compressive Strength (psi)	Density (pcf)	Tested By
PEC-W26440-C1\1	07/17/20	7	4.00	8.00	12.57	U	40140	5	3190	146.8	JB2
PEC-W26440-C1\2	08/07/20	28	4.00	8.00	12.57	U	67710	5	5390	146.4	JB2
PEC-W26440-C1\3	08/07/20	28	4.00	8.00	12.57	U	65160	5	5190	146.6	JB2
PEC-W26440-C1\4	08/07/20	28	4.00	8.00	12.57	U	64790	5	5160	144.7	JB2
							Average 28 Day Compressive Strength (psi)		5240		
							Required Strength (psi)		4000		
PEC-W26440-C1\5		Hold	4.00	8.00	12.57	U				146.4	
PEC-W26440-C1\6		Hold	4.00	8.00	12.57	U				146.3	

Notes

1. Sampling to ASTM C 172
2. Specimen(s) prepared to ASTM C 31
3. Capping: B = Bonded ASTM C 617,U = Unbonded ASTM C 1231

Remarks

JB2 - John Ballinger
Fracture Type: 5 = Semi-Conical Break, 5 = Side fracture at top or bottom

PEC FIELD SERVICES

Located At 350 South Washington
Mailing Address 303 South Topeka
Wichita, KS 67202
(316) 262-6457 www.pec1.com

Field Density Test Report

Project No.:	**190907-000.01**
Report No.:	**ND:PEC-W23357-1**

Client : Wildcat Construction Co., Inc.
Project : Plant 1 Head Works Paving
Testing
3100 S Grove
Wichita KS
Project Manager : Luke A Rogers

CC:
Nathan Adams

Accreditation is granted by AAP and this accreditation is limited to the laboratory and the standards for which the laboratory is accredited. (#) indicates tests for which the lab is not accredited.

Luke A Rogers

Date Issued: 12/6/2019
Reviewed By: Luke Rogers

Testing Details

Tested By:	Corey Aurell		
Date Tested:	12/4/2019		
Field Methods:	ASTM D 6938		
Gauge Type:	Troxler3430	**Test Mode:**	Direct Transmission
Model Number:	3430	**Standard Count: Density:**	2284
Serial Number:	69331	**Standard Count: Moisture:**	708

Proctor Information

Sample ID	Material	Method	MDD (lb/ft³)	OWC (%)
PEC-W23373-S1	Crushed Concrete	ASTM D 698 (C)	111.9	14.3

Test Results

Test No.	Proctor Sample ID	Probe Depth (in.)	Wet Density (lb/ft³)	Water Content (%)	OWC Var	Dry Density (lb/ft³)	Comp (%)	Comp Spec	Results
1	PEC-W23373-S1	6	123.9	10.4	-3.9	112.2	**100**	≥95	P
2	PEC-W23373-S1		120.6	10.6	-3.7	109.0	**97**	≥95	P
3	PEC-W23373-S1		119.5	11.0	-3.3	107.7	**96**	≥95	P
4	PEC-W23373-S1		121.0	10.1	-4.2	109.9	**98**	≥95	P

Location

General Location: Paving Area

Test No.	Location	Test Elev/Depth	Material/Layer
1	See Attached Location Diagram	at Grade	Rock Base
2	See Attached Location Diagram	at Grade	Rock Base
3	See Attached Location Diagram	at Grade	Rock Base
4	See Attached Location Diagram	at Grade	Rock Base

Comments

Legend

OWC = Optimum Water Content
MDD = Maximum Dry Density
P = All results within specifications

Located At 350 South Washington
Mailing Address 303 South Topeka
Wichita, KS 67202
(316) 262-6457 www.pec1.com

Field Density Test Report

Project No.:	**190907-000.01**
Report No.:	**ND:PEC-W23357-1**

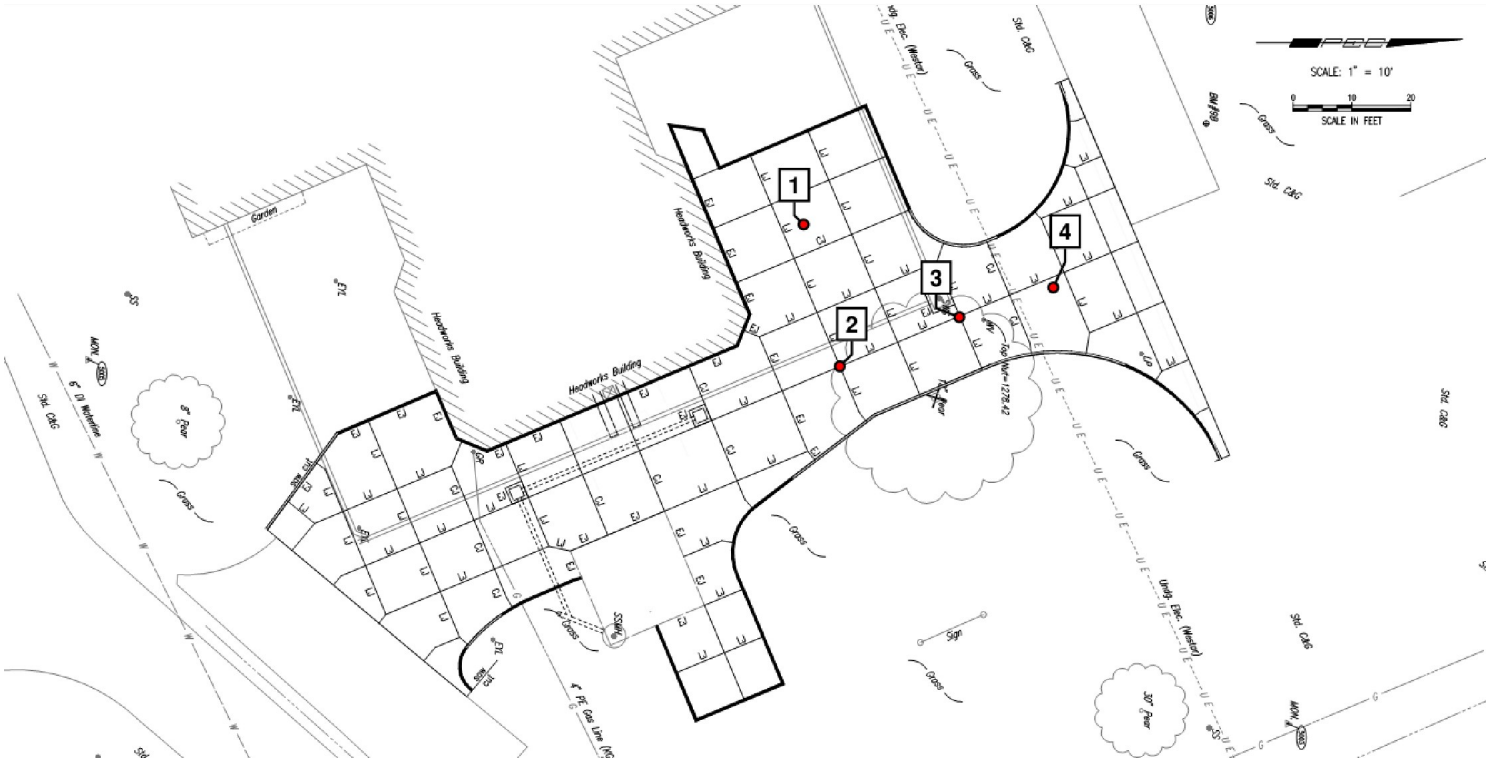
Client :	Wildcat Construction Co., Inc.	**CC:** Nathan Adams
Project :	Plant 1 Head Works Paving Testing 3100 S Grove Wichita KS	
Project Manager :	Luke A Rogers	

Accreditation is granted by AAP and this accreditation is limited to the laboratory and the standards for which the laboratory is accredited. (#) indicates tests for which the lab is not accredited.

Luke A Rogers

Date Issued: **12/6/2019**

Reviewed By: Luke Rogers



Field Density Test Locations 12/4/2019

Located At 350 South Washington
Mailing Address 303 South Topeka
Wichita, KS 67202
(316) 262-6457 www.pec1.com

Field Density Test Report

Project No.:	**190907-000.01**
Report No.:	**ND:PEC-W23375-1**

Client : Wildcat Construction Co., Inc.
Project : Plant 1 Head Works Paving
Testing
3100 S Grove
Wichita KS
Project Manager : Luke A Rogers

CC:
Nathan Adams

Accreditation is granted by AAP and this accreditation is limited to the laboratory and the standards for which the laboratory is accredited. (#) indicates tests for which the lab is not accredited.

Luke A Rogers

Date Issued: 12/6/2019
Reviewed By: Luke Rogers

Testing Details

Tested By:	Luke Rogers		
Date Tested:	12/5/2019		
Field Methods:	ASTM D 6938		
Gauge Type:	Troxler 3430	**Test Mode:**	Direct Transmission
Model Number:	3430	**Standard Count: Density:**	2161
Serial Number:	65670	**Standard Count: Moisture:**	628

Proctor Information

Sample ID	Material	Method	MDD (lb/ft³)	OWC (%)
PEC-W23373-S1	Crushed Concrete	ASTM D 698 (C)	111.9	14.3

Test Results

Test No.	Proctor Sample ID	Probe Depth (in.)	Wet Density (lb/ft³)	Water Content (%)	OWC Var	Dry Density (lb/ft³)	Comp (%)	Comp Spec	Results
1	PEC-W23373-S1	6	128.0	18.1	+3.8	108.4	**97**	≥95	P

Location

General Location: Paving Area

Test No.	Location	Test Elev/Depth	Material/Layer
1	See Attached Location Diagram	at Grade	Rock Base

Comments

Legend

OWC = Optimum Water Content
MDD = Maximum Dry Density
P = All results within specifications

PEC FIELD SERVICES

Located At 350 South Washington
Mailing Address 303 South Topeka
Wichita, KS 67202
(316) 262-6457 www.pec1.com

Field Density Test Report

Project No.:	**190907-000.01**
Report No.:	**ND:PEC-W23375-1**

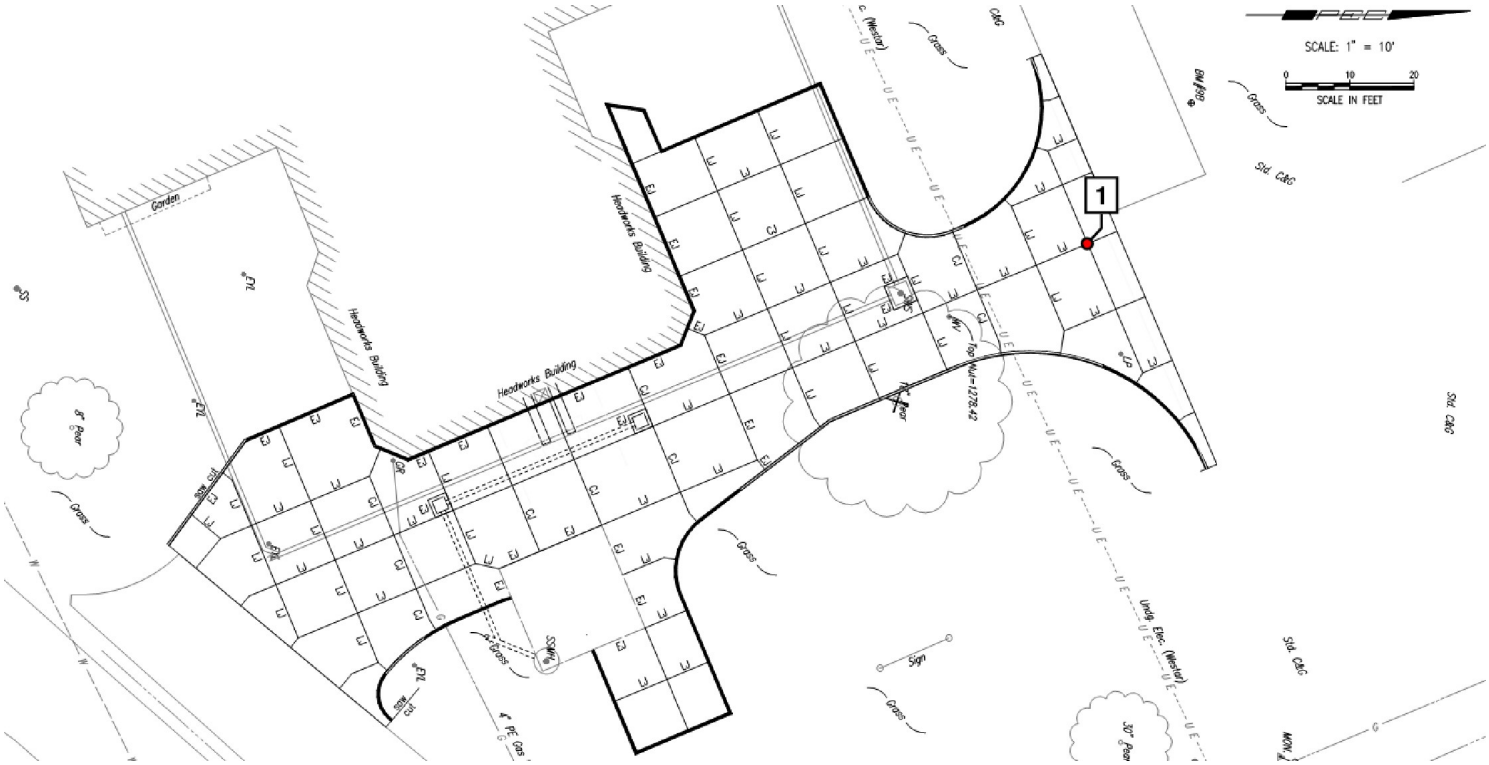
Client : Wildcat Construction Co., Inc.
Project : Plant 1 Head Works Paving
Testing
3100 S Grove
Wichita KS
Project Manager : Luke A Rogers

CC:
Nathan Adams

Accreditation is granted by AAP and this accreditation is limited to the laboratory and the standards for which the laboratory is accredited. (#) indicates tests for which the lab is not accredited.

Luke A Rogers

Date Issued: **12/6/2019**
Reviewed By: Luke Rogers



Field Density Test Location 12/5/2019

PEC FIELD SERVICES

Located At 350 South Washington
Mailing Address 303 South Topeka
Wichita, KS 67202
(316) 262-6457 www.pec1.com

Field Density Test Report

Project No.: 190907-000.01
Report No.: ND:PEC-W23398-1

Client : Wildcat Construction Co., Inc.
Project : Plant 1 Head Works Paving
Testing
3100 S Grove
Wichita KS
Project Manager : Luke A Rogers

CC:
Nathan Adams

Accreditation is granted by AAP and this accreditation is limited to the laboratory and the standards for which the laboratory is accredited. (#) indicates tests for which the lab is not accredited.

Luke A Rogers

Date Issued: 12/16/2019
Reviewed By: Luke Rogers

Testing Details

Tested By: Pat Berry
Date Tested: 12/9/2019
Field Methods: ASTM D 6938
Gauge Type: Troxler 3430
Model Number: 3430
Serial Number: 65670
Test Mode: Direct Transmission
Standard Count: Density: 2180
Standard Count: Moisture: 642

Proctor Information

Sample ID	Material	Method	MDD (lb/ft³)	OWC (%)
PEC-W23373-S1	Crushed Concrete	ASTM D 698 (C)	111.9	14.3

Test Results

Test No.	Proctor Sample ID	Probe Depth (in.)	Wet Density (lb/ft³)	Water Content (%)	OWC Var	Dry Density (lb/ft³)	Comp (%)	Comp Spec	Results
1	PEC-W23373-S1	6	113.4	9.0	-5.3	104.0	**93***	≥95	C*
2	PEC-W23373-S1	6	116.1	9.4	-4.9	106.1	**95**	≥95	P

Location

General Location: South Concrete Pavament Area

Test No.	Location	Test Elev/Depth	Material/Layer
1	See Attached Location Diagram	at Grade	Rock Base
2	See Attached Location Diagram	at Grade	Rock Base

Comments

* = Result does not meet the specification
Test Results reported to contractor on site.

Legend

OWC = Optimum Water Content
MDD = Maximum Dry Density
C = Compaction out of specification
P = All results within specifications

Located At 350 South Washington
Mailing Address 303 South Topeka
Wichita, KS 67202
(316) 262-6457 www.pec1.com

Field Density Test Report

Project No.:	**190907-000.01**
Report No.:	**ND:PEC-W23398-1**

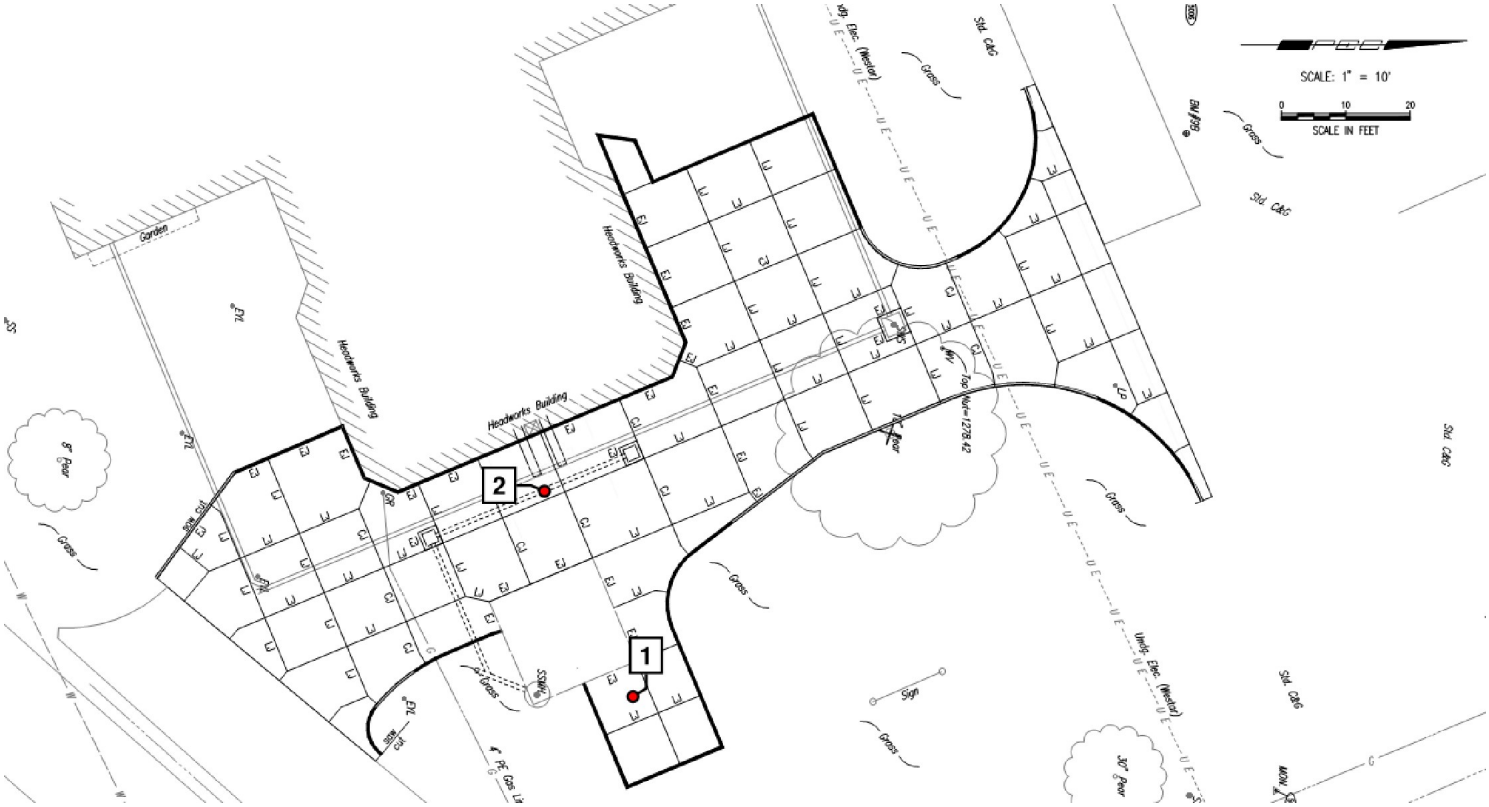
Client :	Wildcat Construction Co., Inc.	**CC:** Nathan Adams
Project :	Plant 1 Head Works Paving Testing 3100 S Grove Wichita KS	
Project Manager :	Luke A Rogers	

Accreditation is granted by AAP and this accreditation is limited to the laboratory and the standards for which the laboratory is accredited. (#) indicates tests for which the lab is not accredited.

Luke A Rogers

Date Issued: **12/16/2019**

Reviewed By: Luke Rogers



Field Density Test Locations 12/9/2019

Located At 350 South Washington
Mailing Address 303 South Topeka
Wichita, KS 67202
(316) 262-6457 www.pec1.com

Field Density Test Report

Project No.:	**190907-000.01**
Report No.:	**ND:PEC-W23540-1**

Client : Wildcat Construction Co., Inc.
Project : Plant 1 Head Works Paving Testing
3100 S Grove
Wichita KS
Project Manager : Luke A Rogers

CC: Nathan Adams, Tom Costello

Accreditation is granted by AAP and this accreditation is limited to the laboratory and the standards for which the laboratory is accredited. (#) indicates tests for which the lab is not accredited.

Date Issued: 12/30/2019
Reviewed By: Luke Rogers

Testing Details

Tested By: Pat Berry
Date Tested: 12/18/2019
Field Methods: ASTM D 6938
Gauge Type: Troxler 3430
Model Number: 3430
Serial Number: 65670
Test Mode: Direct Transmission
Standard Count: Density: 2157
Standard Count: Moisture: 643

Proctor Information

Sample ID	Material	Method	MDD (lb/ft³)	OWC (%)
PEC-W23373-S1	Crushed Concrete	ASTM D 698 (C)	111.9	14.3

Test Results

Test No.	Proctor Sample ID	Probe Depth (in.)	Wet Density (lb/ft³)	Water Content (%)	OWC Var	Dry Density (lb/ft³)	Comp (%)	Comp Spec	Results
1	PEC-W23373-S1	6	122.5	11.1	-3.2	110.3	**99**	≥95	P
2	PEC-W23373-S1	6	124.3	11.2	-3.1	111.8	**100**	≥95	P

Location

General Location: Concrete Pavement Area South of Building

Test No.	Location	Test Elev/Depth	Material/Layer
1	See Attached Location Diagram	at Grade	Rock Base
2	See Attached Location Diagram	at Grade	Rock Base

Comments

Legend

OWC = Optimum Water Content
MDD = Maximum Dry Density
P = All results within specifications

Located At 350 South Washington
Mailing Address 303 South Topeka
Wichita, KS 67202
(316) 262-6457 www.pec1.com

Field Density Test Report

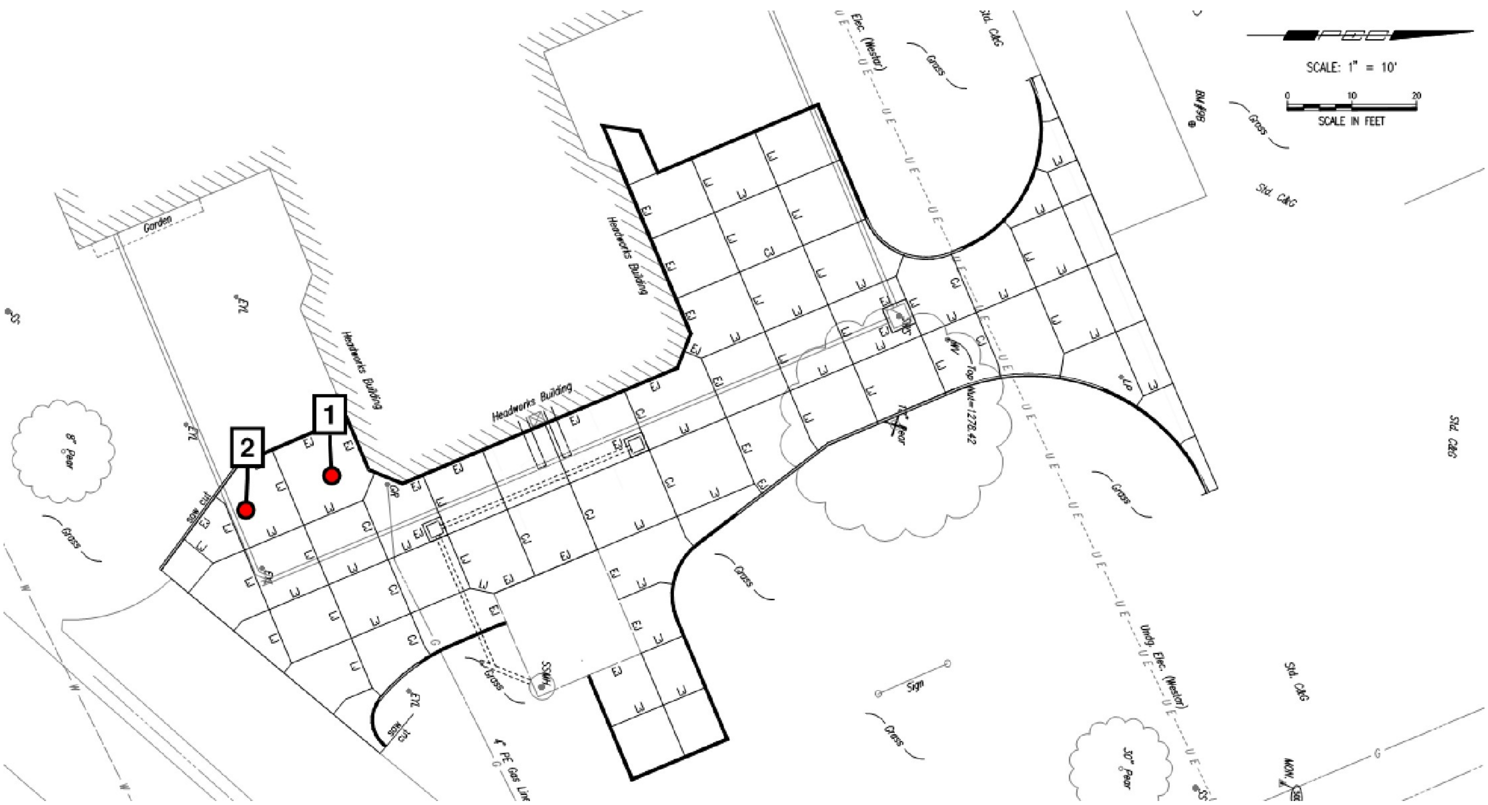
Project No.:	**190907-000.01**
Report No.:	**ND:PEC-W23540-1**

Client : Wildcat Construction Co., Inc.
Project : Plant 1 Head Works Paving Testing
3100 S Grove
Wichita KS
Project Manager : Luke A Rogers

CC: Nathan Adams, Tom Costello

Accreditation is granted by AAP and this accreditation is limited to the laboratory and the standards for which the laboratory is accredited. (#) indicates tests for which the lab is not accredited.

Date Issued: **12/30/2019**
Reviewed By: Luke Rogers



Field Density Test Locations 12/18/2019

PEC FIELD SERVICES

Located At 350 South Washington
Mailing Address 303 South Topeka
Wichita, KS 67202
(316) 262-6457 www.pec1.com

Proctor Report

Project No.:	**190907-000.01**
Report No.:	**PTR:PEC-W23373-S1-1**

Client : Wildcat Construction Co., Inc.
Project : Plant 1 Head Works Paving
Testing
3100 S Grove
Wichita KS
Project Manager : Luke A Rogers

CC:
Nathan Adams

Accreditation is granted by AAP and this accreditation is limited to the laboratory and the standards for which the laboratory is accredited. (#) indicates tests for which the lab is not accredited.

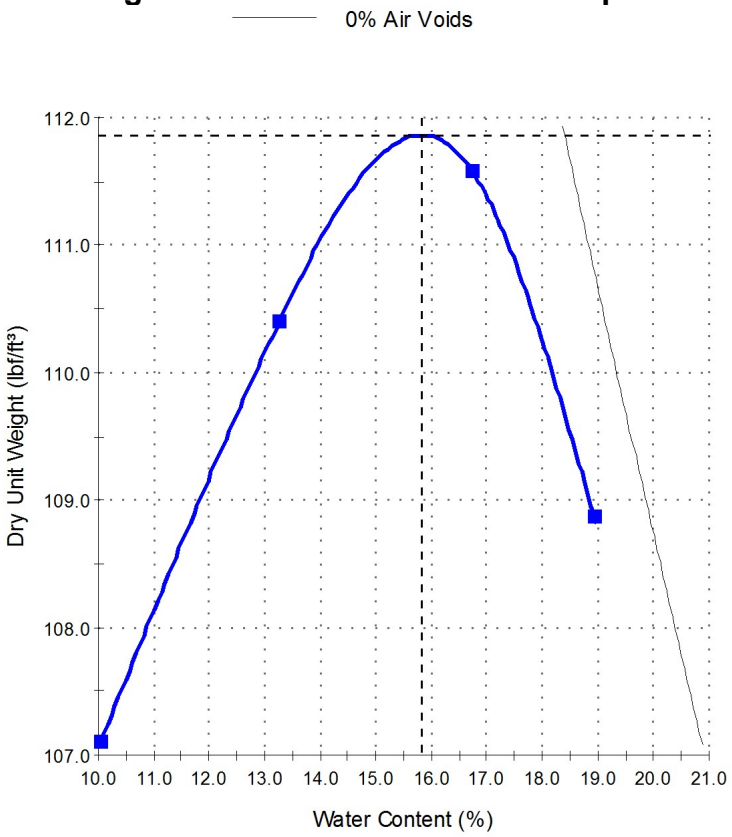
Luke A Rogers

Date Issued: 12/6/2019
Reviewed By: Luke Rogers

Sample Details

Sample ID: PEC-W23373-S1
Material: Crushed Concrete
Location: Off Site (Andale Ready Mix)
Tested By: Patrick Younkin
Date Sampled: 12/4/2019
Date Tested: 12/5/2019

Dry Unit Weight - Water Content Relationship



Test Results

ASTM D 698

Maximum Dry Unit Weight (lbf/ft³):	**111.9**
Optimum Water Content (%):	**15.8**
Method:	C
Preparation Method:	Moist
Specific Gravity (Fines):	2.68
Retained Sieve 3/4" (19mm) (%):	0
Passing Sieve 3/4" (19mm) (%):	100
Excluded Oversize Retained Sieve 3/4" (19mm) (%):	17
Tested By:	Patrick Younkin
Date Tested:	12/5/2019

ASTM D 4718

Corrected Maximum Dry Unit Weight (lbf/ft³):	**111.9**
Corrected Optimum Water Content (%):	**14.3**
Sieve Size (Oversize):	3/4
Oversize Particles (%):	17

Comments

Located at 350 S Washington
Mailing Address 303 S Topeka
Wichita, KS 67202
(316) 262-6457 www.pec1.com

Reinforcing Steel Observation Report

Project No.: 190907-000.01
Report No.: RSO:PEC-W23919-O1

Client: Wildcat Construction Co., Inc.
CC: Nathan Adams, Tom Costello
Project: Plant 1 Head Works Paving Testing

3100 S Grove
Wichita KS

Project Manager: Luke A Rogers

Accreditation is granted by AAP and this accreditation is limited to the laboratory and the standards for which the laboratory is accredited.

Luke A Rogers

Reviewed By: Luke Rogers

Report Date: 1/19/2020
Service Date: 1/16/2020
Technician: Jesus Rojas

Location of Reinforcing Steel Observed: Trench Patch Head Works Building Floor Slab

Items Observed:
PEC Field Services personnel evaluated reinforcing steel placement. Items we observed included placement of correct bar size, required rebar spacing, correct number of bars and pattern of placement. We also observed that the rebar was free of excessive dirt, debris, and rust.

Observation Results:
According to our field evaluation, the reinforcing steel at the locations noted above were in compliance with the project drawings. Any observed deficiencies of the reinforcing steel placement will be noted below as a non-conformance item.

Non-Conformance Item:
None

Located at 350 S Washington
Mailing Address 303 S Topeka
Wichita, KS 67202
(316) 262-6457 www.pec1.com

Reinforcing Steel Observation Report

Project No.: 190907-000.01
Report No.: RSO:PEC-W23919-O1

Client: Wildcat Construction Co., Inc.
CC: Nathan Adams, Tom Costello
Project: Plant 1 Head Works Paving Testing

3100 S Grove
Wichita KS

Project Manager: Luke A Rogers

Accreditation is granted by AAP and this accreditation is limited to the laboratory and the standards for which the laboratory is accredited.

Luke A Rogers

Reviewed By: Luke Rogers

Report Date: 1/19/2020
Service Date: 1/16/2020
Technician: Jesus Rojas

Location of Reinforcing Steel Observed: Trench Patch Head Works Building Floor Slab

Items Observed:
PEC Field Services personnel evaluated reinforcing steel placement. Items we observed included placement of correct bar size, required rebar spacing, correct number of bars and pattern of placement. We also observed that the rebar was free of excessive dirt, debris, and rust.

Observation Results:
According to our field evaluation, the reinforcing steel at the locations noted above were in compliance with the project drawings. Any observed deficiencies of the reinforcing steel placement will be noted below as a non-conformance item.

Non-Conformance Item:
None

PEC FIELD SERVICES

Located At 350 South Washington
Mailing Address 303 South Topeka
Wichita, KS 67202
(316) 262-6457 www.pec1.com

Field Density Test Report

Project No.:	**190907-000.01**
Report No.:	**ND:PEC-W23357-1**

Client : Wildcat Construction Co., Inc.
Project : Plant 1 Head Works Paving
Testing
3100 S Grove
Wichita KS
Project Manager : Luke A Rogers

CC:
Nathan Adams

Accreditation is granted by AAP and this accreditation is limited to the laboratory and the standards for which the laboratory is accredited. (#) indicates tests for which the lab is not accredited.

Luke A Rogers

Date Issued: 12/6/2019
Reviewed By: Luke Rogers

Testing Details

Tested By:	Corey Aurell		
Date Tested:	12/4/2019		
Field Methods:	ASTM D 6938		
Gauge Type:	Troxler3430	**Test Mode:**	Direct Transmission
Model Number:	3430	**Standard Count: Density:**	2284
Serial Number:	69331	**Standard Count: Moisture:**	708

Proctor Information

Sample ID	Material	Method	MDD (lb/ft³)	OWC (%)
PEC-W23373-S1	Crushed Concrete	ASTM D 698 (C)	111.9	14.3

Test Results

Test No.	Proctor Sample ID	Probe Depth (in.)	Wet Density (lb/ft³)	Water Content (%)	OWC Var	Dry Density (lb/ft³)	Comp (%)	Comp Spec	Results
1	PEC-W23373-S1	6	123.9	10.4	-3.9	112.2	**100**	≥95	P
2	PEC-W23373-S1		120.6	10.6	-3.7	109.0	**97**	≥95	P
3	PEC-W23373-S1		119.5	11.0	-3.3	107.7	**96**	≥95	P
4	PEC-W23373-S1		121.0	10.1	-4.2	109.9	**98**	≥95	P

Location

General Location: Paving Area

Test No.	Location	Test Elev/Depth	Material/Layer
1	See Attached Location Diagram	at Grade	Rock Base
2	See Attached Location Diagram	at Grade	Rock Base
3	See Attached Location Diagram	at Grade	Rock Base
4	See Attached Location Diagram	at Grade	Rock Base

Comments

Legend

OWC = Optimum Water Content
MDD = Maximum Dry Density
P = All results within specifications

Located At 350 South Washington
Mailing Address 303 South Topeka
Wichita, KS 67202
(316) 262-6457 www.pec1.com

Field Density Test Report

Project No.:	**190907-000.01**
Report No.:	**ND:PEC-W23357-1**

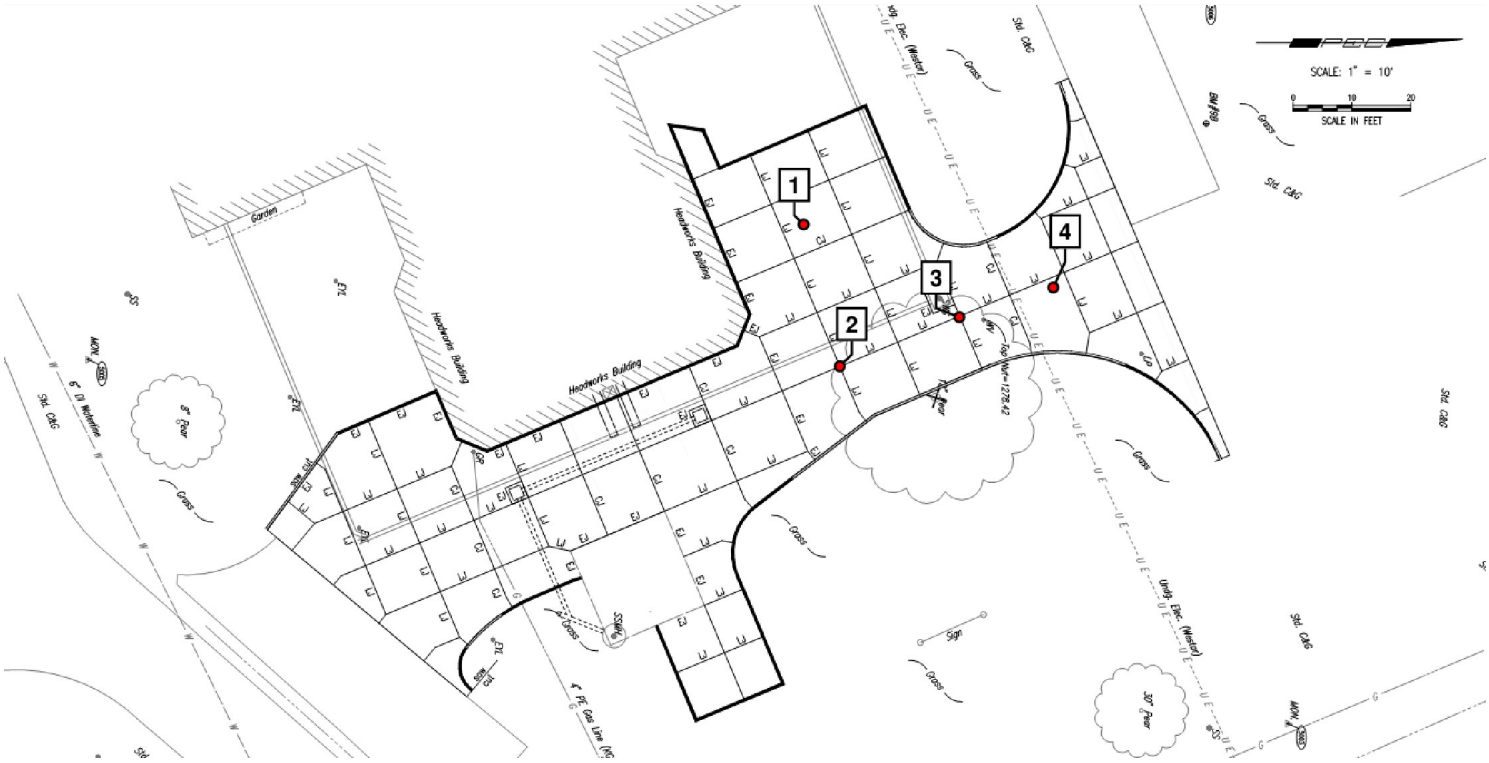
Client :	Wildcat Construction Co., Inc.	**CC:** Nathan Adams
Project :	Plant 1 Head Works Paving Testing 3100 S Grove Wichita KS	
Project Manager :	Luke A Rogers	

Accreditation is granted by AAP and this accreditation is limited to the laboratory and the standards for which the laboratory is accredited. (#) indicates tests for which the lab is not accredited.

Luke A Rogers

Date Issued: **12/6/2019**

Reviewed By: Luke Rogers



Field Density Test Locations 12/4/2019

Located At 350 South Washington
Mailing Address 303 South Topeka
Wichita, KS 67202
(316) 262-6457 www.pec1.com

Field Density Test Report

Project No.:	**190907-000.01**
Report No.:	**ND:PEC-W23375-1**

Client : Wildcat Construction Co., Inc.
Project : Plant 1 Head Works Paving
Testing
3100 S Grove
Wichita KS
Project Manager : Luke A Rogers

CC:
Nathan Adams

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Luke A Rogers

Date Issued: 12/6/2019
Reviewed By: Luke Rogers

Testing Details

Tested By:	Luke Rogers		
Date Tested:	12/5/2019		
Field Methods:	ASTM D 6938		
Gauge Type:	Troxler 3430	**Test Mode:**	Direct Transmission
Model Number:	3430	**Standard Count: Density:**	2161
Serial Number:	65670	**Standard Count: Moisture:**	628

Proctor Information

Sample ID	Material	Method	MDD (lb/ft³)	OWC (%)
PEC-W23373-S1	Crushed Concrete	ASTM D 698 (C)	111.9	14.3

Test Results

Test No.	Proctor Sample ID	Probe Depth (in.)	Wet Density (lb/ft³)	Water Content (%)	OWC Var	Dry Density (lb/ft³)	Comp (%)	Comp Spec	Results
1	PEC-W23373-S1	6	128.0	18.1	+3.8	108.4	**97**	≥95	P

Location

General Location: Paving Area

Test No.	Location	Test Elev/Depth	Material/Layer
1	See Attached Location Diagram	at Grade	Rock Base

Comments

Legend

OWC = Optimum Water Content
MDD = Maximum Dry Density
P = All results within specifications

PEC FIELD SERVICES

Located At 350 South Washington
Mailing Address 303 South Topeka
Wichita, KS 67202
(316) 262-6457 www.pec1.com

Field Density Test Report

Project No.:	**190907-000.01**
Report No.:	**ND:PEC-W23375-1**

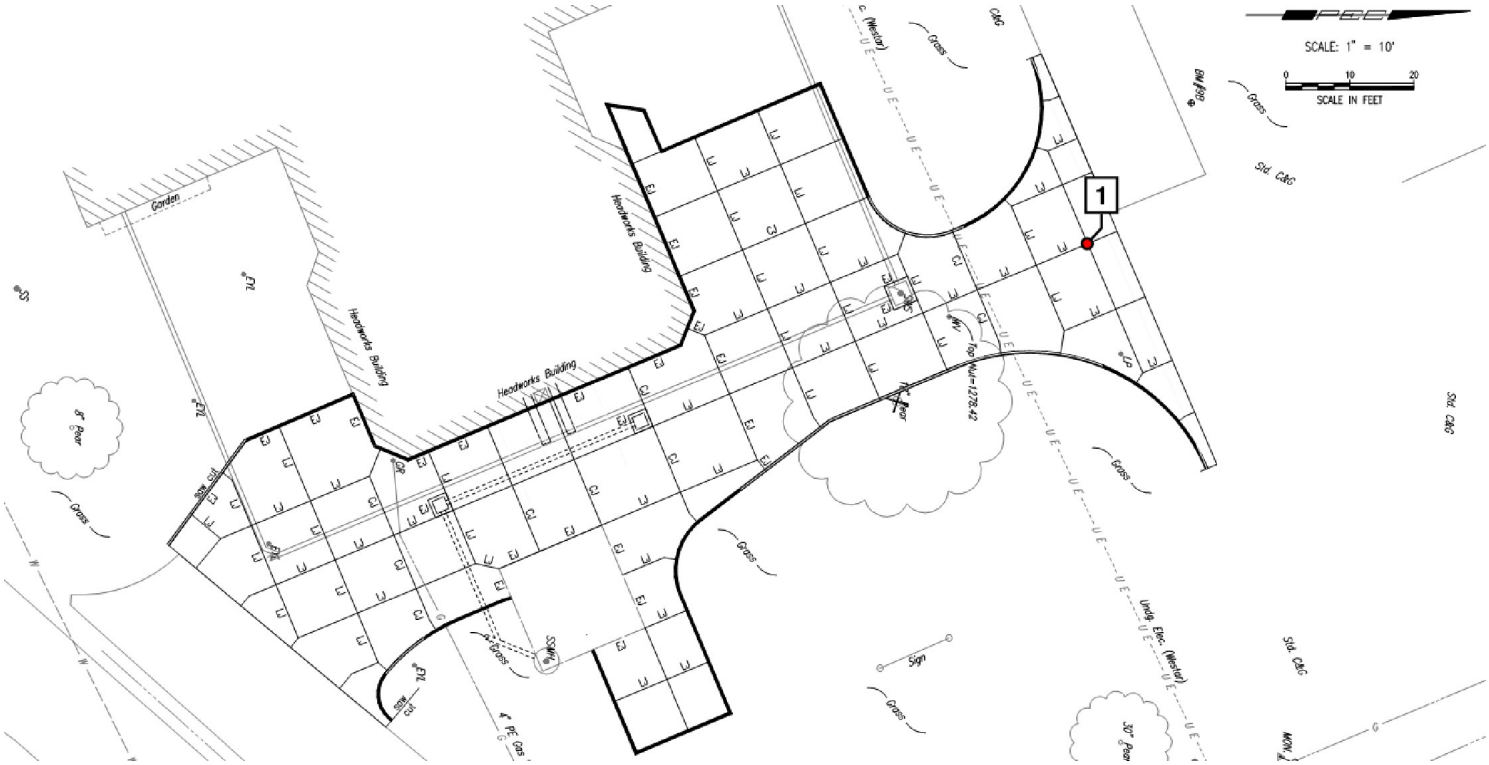
Client : Wildcat Construction Co., Inc.
Project : Plant 1 Head Works Paving
Testing
3100 S Grove
Wichita KS
Project Manager : Luke A Rogers

CC:
Nathan Adams

Accreditation is granted by AAP and this accreditation is limited to the laboratory and the standards for which the laboratory is accredited. (#) indicates tests for which the lab is not accredited.

Luke A Rogers

Date Issued: **12/6/2019**
Reviewed By: Luke Rogers



Field Density Test Location 12/5/2019

PEC FIELD SERVICES

Located At 350 South Washington
Mailing Address 303 South Topeka
Wichita, KS 67202
(316) 262-6457 www.pec1.com

Field Density Test Report

Project No.: 190907-000.01
Report No.: ND:PEC-W23398-1

Client : Wildcat Construction Co., Inc.
Project : Plant 1 Head Works Paving
Testing
3100 S Grove
Wichita KS
Project Manager : Luke A Rogers

CC:
Nathan Adams

Accreditation is granted by AAP and this accreditation is limited to the laboratory and the standards for which the laboratory is accredited. (#) indicates tests for which the lab is not accredited.

Luke A Rogers

Date Issued: 12/16/2019
Reviewed By: Luke Rogers

Testing Details

Tested By: Pat Berry
Date Tested: 12/9/2019
Field Methods: ASTM D 6938
Gauge Type: Troxler 3430
Model Number: 3430
Serial Number: 65670
Test Mode: Direct Transmission
Standard Count: Density: 2180
Standard Count: Moisture: 642

Proctor Information

Sample ID	Material	Method	MDD (lb/ft³)	OWC (%)
PEC-W23373-S1	Crushed Concrete	ASTM D 698 (C)	111.9	14.3

Test Results

Test No.	Proctor Sample ID	Probe Depth (in.)	Wet Density (lb/ft³)	Water Content (%)	OWC Var	Dry Density (lb/ft³)	Comp (%)	Comp Spec	Results
1	PEC-W23373-S1	6	113.4	9.0	-5.3	104.0	**93***	≥95	C*
2	PEC-W23373-S1	6	116.1	9.4	-4.9	106.1	**95**	≥95	P

Location

General Location: South Concrete Pavament Area

Test No.	Location	Test Elev/Depth	Material/Layer
1	See Attached Location Diagram	at Grade	Rock Base
2	See Attached Location Diagram	at Grade	Rock Base

Comments

* = Result does not meet the specification
Test Results reported to contractor on site.

Legend

OWC = Optimum Water Content
MDD = Maximum Dry Density
C = Compaction out of specification
P = All results within specifications

Located At 350 South Washington
Mailing Address 303 South Topeka
Wichita, KS 67202
(316) 262-6457 www.pec1.com

Field Density Test Report

Project No.:	**190907-000.01**
Report No.:	**ND:PEC-W23398-1**

Client :	Wildcat Construction Co., Inc.	**CC:** Nathan Adams
Project :	Plant 1 Head Works Paving Testing 3100 S Grove Wichita KS	
Project Manager :	Luke A Rogers	

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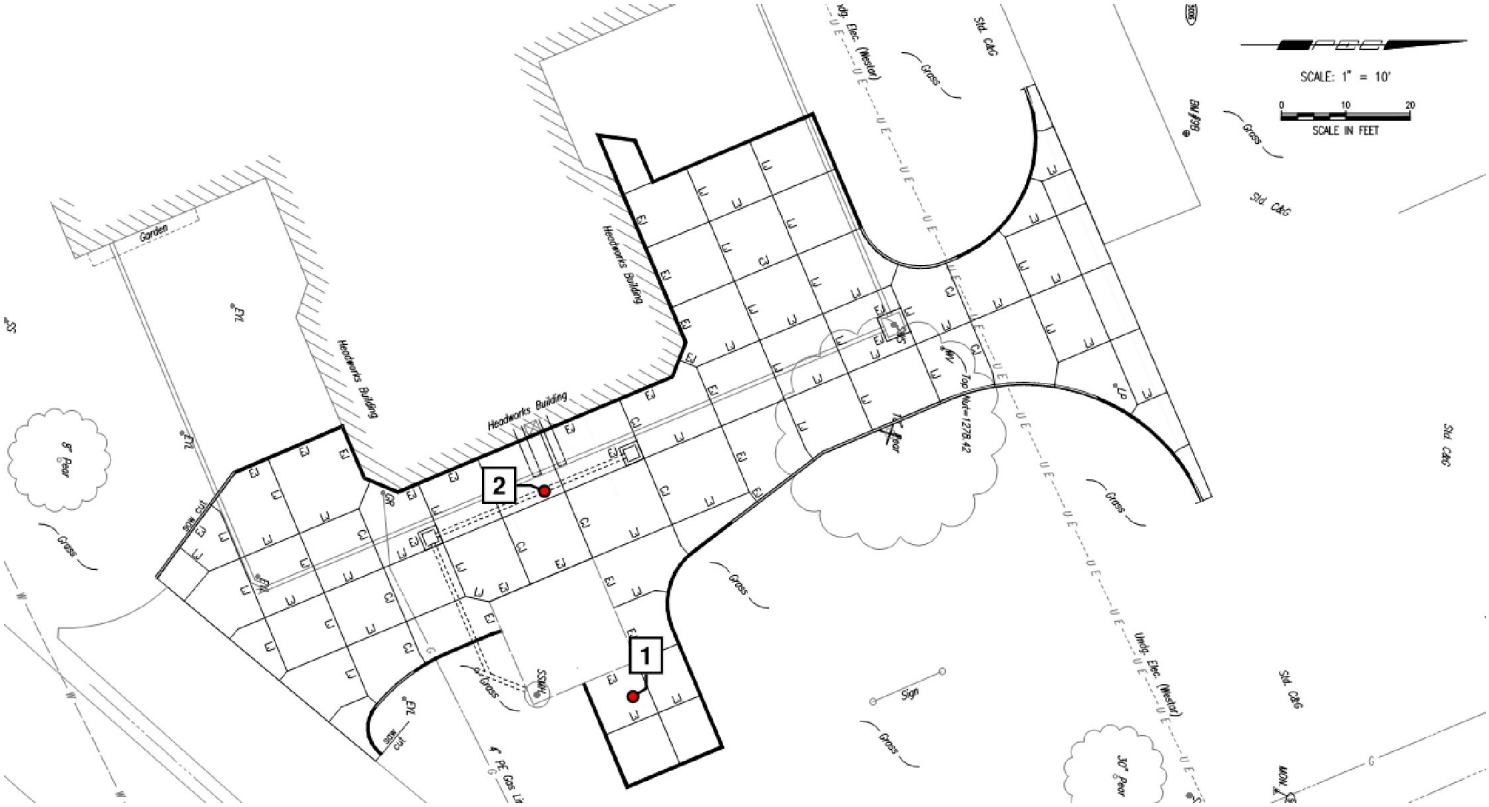
Luke A Rogers

Date Issued: **12/16/2019**

Reviewed By: Luke Rogers



Field Density Test Locations 12/9/2019

Located At 350 South Washington
Mailing Address 303 South Topeka
Wichita, KS 67202
(316) 262-6457 www.pec1.com

Field Density Test Report

Project No.:	**190907-000.01**
Report No.:	**ND:PEC-W23540-1**

Client : Wildcat Construction Co., Inc.
Project : Plant 1 Head Works Paving Testing
3100 S Grove
Wichita KS
Project Manager : Luke A Rogers

CC: Nathan Adams, Tom Costello

Accreditation is granted by AAP and this accreditation is limited to the laboratory and the standards for which the laboratory is accredited. (#) indicates tests for which the lab is not accredited.

Date Issued: 12/30/2019
Reviewed By: Luke Rogers

Testing Details

Tested By: Pat Berry
Date Tested: 12/18/2019
Field Methods: ASTM D 6938
Gauge Type: Troxler 3430
Model Number: 3430
Serial Number: 65670
Test Mode: Direct Transmission
Standard Count: Density: 2157
Standard Count: Moisture: 643

Proctor Information

Sample ID	Material	Method	MDD (lb/ft³)	OWC (%)
PEC-W23373-S1	Crushed Concrete	ASTM D 698 (C)	111.9	14.3

Test Results

Test No.	Proctor Sample ID	Probe Depth (in.)	Wet Density (lb/ft³)	Water Content (%)	OWC Var	Dry Density (lb/ft³)	Comp (%)	Comp Spec	Results
1	PEC-W23373-S1	6	122.5	11.1	-3.2	110.3	**99**	≥95	P
2	PEC-W23373-S1	6	124.3	11.2	-3.1	111.8	**100**	≥95	P

Location

General Location: Concrete Pavement Area South of Building

Test No.	Location	Test Elev/Depth	Material/Layer
1	See Attached Location Diagram	at Grade	Rock Base
2	See Attached Location Diagram	at Grade	Rock Base

Comments

Legend

OWC = Optimum Water Content
MDD = Maximum Dry Density
P = All results within specifications

Located At 350 South Washington
Mailing Address 303 South Topeka
Wichita, KS 67202
(316) 262-6457 www.pec1.com

PEC FIELD SERVICES

Field Density Test Report

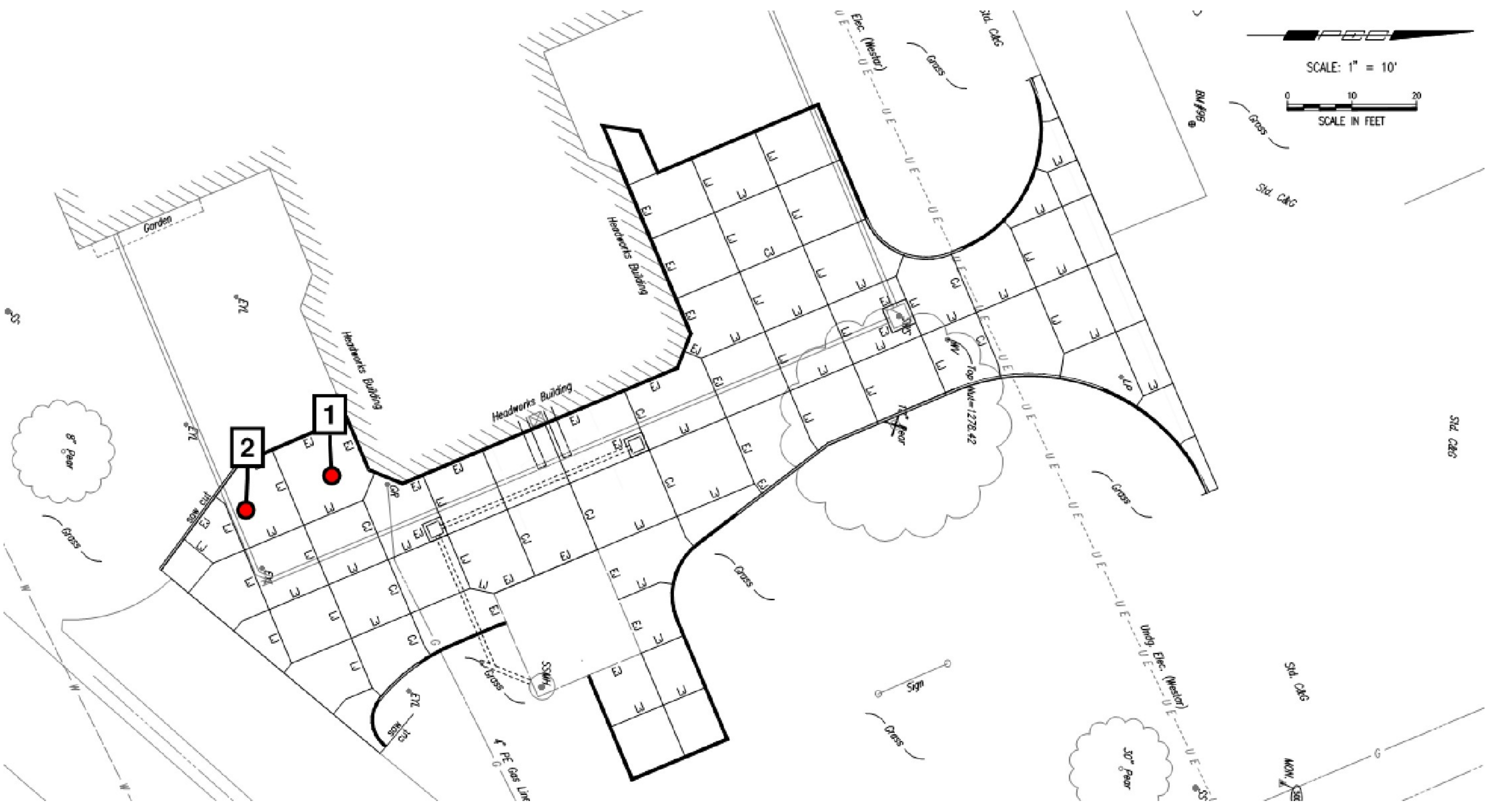
Project No.:	**190907-000.01**
Report No.:	**ND:PEC-W23540-1**

Client : Wildcat Construction Co., Inc.
Project : Plant 1 Head Works Paving Testing
3100 S Grove
Wichita KS
Project Manager : Luke A Rogers

CC: Nathan Adams, Tom Costello

Accreditation is granted by AAP and this accreditation is limited to the laboratory and the standards for which the laboratory is accredited. (#) indicates tests for which the lab is not accredited.

Date Issued: **12/30/2019**
Reviewed By: Luke Rogers



Field Density Test Locations 12/18/2019

PEC FIELD SERVICES

Located At 350 South Washington
Mailing Address 303 South Topeka
Wichita, KS 67202
(316) 262-6457 www.pec1.com

Proctor Report

Project No.:	**190907-000.01**
Report No.:	**PTR:PEC-W23373-S1-1**

Client : Wildcat Construction Co., Inc.
Project : Plant 1 Head Works Paving
Testing
3100 S Grove
Wichita KS
Project Manager : Luke A Rogers

CC:
Nathan Adams

Accreditation is granted by AAP and this accreditation is limited to the laboratory and the standards for which the laboratory is accredited. (#) indicates tests for which the lab is not accredited.

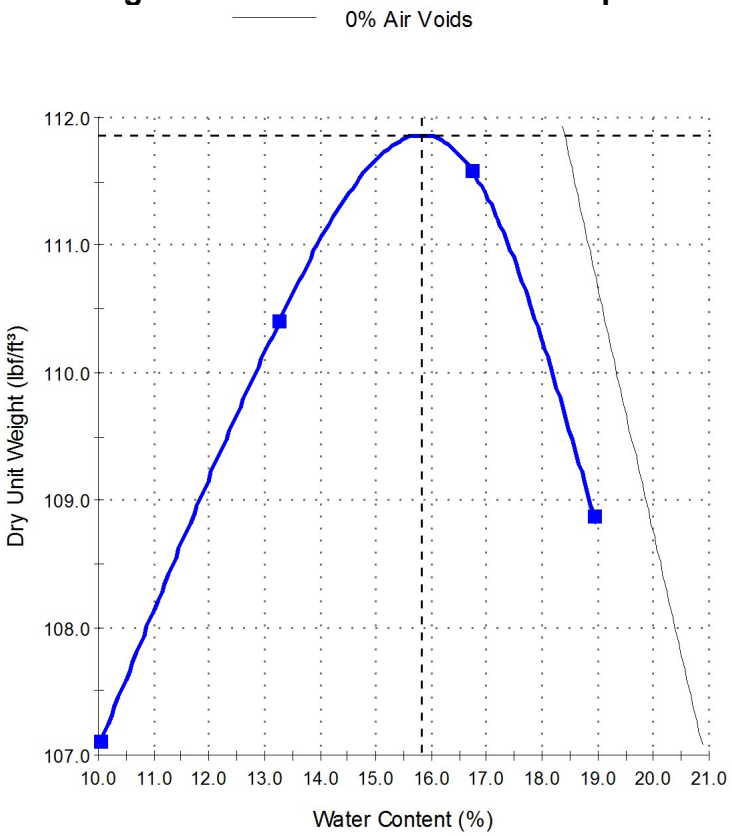
Luke A Rogers

Date Issued: 12/6/2019
Reviewed By: Luke Rogers

Sample Details

Sample ID: PEC-W23373-S1
Material: Crushed Concrete
Location: Off Site (Andale Ready Mix)
Tested By: Patrick Younkin
Date Sampled: 12/4/2019
Date Tested: 12/5/2019

Dry Unit Weight - Water Content Relationship



Test Results

ASTM D 698

Maximum Dry Unit Weight (lbf/ft³):	**111.9**
Optimum Water Content (%):	**15.8**
Method:	C
Preparation Method:	Moist
Specific Gravity (Fines):	2.68
Retained Sieve 3/4" (19mm) (%):	0
Passing Sieve 3/4" (19mm) (%):	100
Excluded Oversize Retained Sieve 3/4" (19mm) (%):	17
Tested By:	Patrick Younkin
Date Tested:	12/5/2019

ASTM D 4718

Corrected Maximum Dry Unit Weight (lbf/ft³):	**111.9**
Corrected Optimum Water Content (%):	**14.3**
Sieve Size (Oversize):	3/4
Oversize Particles (%):	17

Comments

Located at 350 S Washington
Mailing Address 303 S Topeka
Wichita, KS 67202
(316) 262-6457 www.pec1.com

Reinforcing Steel Observation Report

Project No.: 190907-000.01
Report No.: RSO:PEC-W23919-O1

Client: Wildcat Construction Co., Inc.
CC: Nathan Adams, Tom Costello
Project: Plant 1 Head Works Paving Testing

3100 S Grove
Wichita KS

Project Manager: Luke A Rogers

Accreditation is granted by AAP and this accreditation is limited to the laboratory and the standards for which the laboratory is accredited.

Luke A Rogers

Reviewed By: Luke Rogers

Report Date: 1/19/2020
Service Date: 1/16/2020
Technician: Jesus Rojas

Location of Reinforcing Steel Observed: Trench Patch Head Works Building Floor Slab

Items Observed:
PEC Field Services personnel evaluated reinforcing steel placement. Items we observed included placement of correct bar size, required rebar spacing, correct number of bars and pattern of placement. We also observed that the rebar was free of excessive dirt, debris, and rust.

Observation Results:
According to our field evaluation, the reinforcing steel at the locations noted above were in compliance with the project drawings. Any observed deficiencies of the reinforcing steel placement will be noted below as a non-conformance item.

Non-Conformance Item:
None

Located at 350 S Washington
Mailing Address 303 S Topeka
Wichita, KS 67202
(316) 262-6457 www.pec1.com

Reinforcing Steel Observation Report

Project No.: 190907-000.01
Report No.: RSO:PEC-W23919-O1

Client: Wildcat Construction Co., Inc.
CC: Nathan Adams, Tom Costello
Project: Plant 1 Head Works Paving Testing

3100 S Grove
Wichita KS

Project Manager: Luke A Rogers

Accreditation is granted by AAP and this accreditation is limited to the laboratory and the standards for which the laboratory is accredited.

Luke A Rogers

Reviewed By: Luke Rogers

Report Date: 1/19/2020
Service Date: 1/16/2020
Technician: Jesus Rojas

Location of Reinforcing Steel Observed: Trench Patch Head Works Building Floor Slab

Items Observed:
PEC Field Services personnel evaluated reinforcing steel placement. Items we observed included placement of correct bar size, required rebar spacing, correct number of bars and pattern of placement. We also observed that the rebar was free of excessive dirt, debris, and rust.

Observation Results:
According to our field evaluation, the reinforcing steel at the locations noted above were in compliance with the project drawings. Any observed deficiencies of the reinforcing steel placement will be noted below as a non-conformance item.

Non-Conformance Item:
None