

PO#144404

BH

QC Laboratories, Inc.

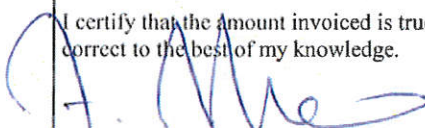
10810 Northwest Freeway
Houston, TX 77092

rec 389969

Invoice

DATE	INVOICE #
12/31/2016	11-60902

BILL TO
Fort Bend County Engineering Dept. 301 Jackson St., 4th Floor Richmond, TX 77469

		Project #	Terms	Project	Purchase Order
		16M13347	Net 30 Days	Katy Gaston Road	
DATE	REPORT #	DESCRIPTION	QTY	RATE	AMOUNT
		Katy Gaston Road from Westpark Dr. to Summerset Ridge Lane, Fort Bend County			
12/1/2016	79	Technician	1.75	43.00	75.25
		Vehicle Charge	1.75	10.00	17.50
12/7/2016	80	Staff/Project Engineer	0.1	149.00	14.90
		NICET Level II Technician	7	65.00	455.00
		Vehicle Charge	7	10.00	70.00
	81	Staff/Project Engineer	0.1	149.00	14.90
		Concrete Cylinder Compressive Test (ASTM C39)	4	16.00	64.00
12/8/2016	82	Technician	2.25	43.00	96.75
		Vehicle Charge	2.25	10.00	22.50
		I certify that the amount invoiced is true and correct to the best of my knowledge.			
		 Fred Madani Date 1/10/17			
				Total	\$830.80
				Balance Due	\$830.80

Phone #
(713) 695-1133

OK, JSS
01/24/17

REVIEWED BY HT
01/17/2017



January 6, 2017

Fort Bend County Engineering Department
Attn: Accounts Payable
301 Jackson St., 4th Floor
Richmond, TX 77469

RE: Katy Gaston Road from Westpark Dr. to Summerset Ridge Lane
Forth Bend County

Attached is our monthly invoice for the **Construction Material Testing** on the referenced project.

Estimate or Contract Amount:	\$39,900.00	
Change Orders:	\$0.00	
Billing to Last Month:	\$34,358.20	
Current Month Total:	\$830.80	
Project Total:	\$35,189.00	88%

Please note that the original budget was only an estimate and is not to be considered a "Not To Exceed" amount. The information provided above is to assist with your internal budgeting

We appreciate your business. If you have any questions about the current invoice or the overall budget please contact me at the earliest possible time.

Sincerely,

QC Laboratories, Inc.

A handwritten signature in blue ink, appearing to be 'M. Me' or similar, written over the printed name 'QC Laboratories, Inc.'.

Tel: 713-695-1133
Fax: 713-695-0808

10810 Northwest Freeway
Houston, Texas 77092

qclabs@qclabs.com

Client No: 091316 Proj No: 16M13347 Date Sampled: 11/03/2016
Report Date: 12/29/2016 Previously Reported: 12/01/2016 Sampled By: Aicklen, Christopher
Project: Katy Gaston Road from Westpark Dr. to Summerset Ridge Lane, Fort Bend County By Order Of: Louis w/Allgood Const
Location: Inlets and Manhole Cover / Topping Order Number:
Client: Fort Bend County Engineering Department Number of Specimens: 6
REPORT: REPORT OF CONCRETE COMPRESSIVE STRENGTH TEST LAB NO: 122498-1
Test Method: See Below

TEST RESULTS

Report No: 1-2703-000057
Page 1 of 2

Sample Location: Inlets and Manhole Cover / Topping

MEETS REFERENCE VALUE

Specifications: 4000 psi @ 28 days / 4000 psi @ 28 days

Date Sampled: 11/3/16

Source/Sampled At: Allied / On site

Measurements Requirements

of Specimens: 6

Plant: Allied

Air Temp. (°F): 81 Min 40

Time Batched: 1:20 pm

Description: 6 Sk, 1.5" LS

Concrete Temp. (°F): 86 Max 95

Time Sampled: 2:25 pm

Mix Design: 1421632

Slump (in.): 2.00 2-4

Water Added: 5 Gal

Truck No: 422258

Air Content by Vol. (%): 3.0 3-5

Weather: Clear

Ticket No: 53457744

Unit Weight (pcf):

Quantity Represented: 10 cu. yds. at 10 cu. yds. placed of a 10 cu. yd. total placement

Placement Location: Station 16+50, Inlet NE2

TEST RESULTS

CYL ID	Test Date	Test Age (days)	Diameter (in)	Area (in ²)	Type of Break	Maximum Load (lbs)	Compressive Strength (PSI)	Average Strength (PSI)	Comments
A	11/10/16	7.00	6.00	28.274	5. Type 5	132,040	4,670		
B	11/10/16	7.00	6.00	28.274	5. Type 5	138,910	4,910	4,790	
C	12/1/16	28.00	6.00	28.274	3. Type 3	158,750	5,610		
D	12/1/16	28.00	6.00	28.274	3. Type 3	162,340	5,740	5,680	
E	12/29/16	56.00	6.00	28.274	2. Type 2	168,990	5,980		
F	12/29/16	56.00	6.00	28.274	5. Type 5	188,760	6,680	6,330	



Type 1



Type 2



Type 3



Type 4



Type 5



Type 6

Orig: Fort Bend County Engineering Department
(Richmond, TX) Attn: Wesley Crawford
(1-cc copy)

1-ec AECOM Attn: Clifford Halvorsen

1-ec AECOM Attn: Amanda Loethen

1-ec AECOM Attn: Huy Ton

1-ec Allgood Construction Co. Inc.

Attn: Michael Boenig

Client No:	091316	Proj No:	16M13347	Date Sampled:	11/03/2016
Report Date:	12/29/2016	Previously Reported:	12/01/2016	Sampled By:	Aicklen, Christopher
Project:	Katy Gaston Road from Westpark Dr. to Summerset Ridge Lane, Fort Bend County			By Order Of:	Louis w/Allgood Const
Location:	Inlets and Manhole Cover / Topping			Order Number:	
Client:	Fort Bend County Engineering Department			Number of Specimens:	6
REPORT:	REPORT OF CONCRETE COMPRESSIVE STRENGTH TEST			LAB NO:	122498-1
				Test Method:	See Below

TEST RESULTS


Report No: 1-2703-000057
Page 2 of 2

Remarks: As per ASTM C31, initial curing will be by the Standard Curing Method. Specimens will be cured utilizing plastic bags final cure method will be within our approved moisture room. Initial Cure Temperatures, Max.= 80°F, and Min.= 60°F.

Test Method: Unless noted, concrete was sampled and tested in accordance with ASTM C31, C39, C172, C143, C231(except 6) or C173, C1064, C1231.

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1-ec AECOM Attn: Huy Ton
1-ec Allgood Construction Co. Inc.
Attn: Michael Boenig

QC Laboratories, Inc.


Hulugundi Dwarakanath, P.E., Senior Project Engineer

Client No: 091316 Proj No: 16M13347 Date Sampled: 11/09/2016
Report Date: 12/07/2016 Previously Reported: 11/15/2016 Sampled By: Aicklen, Christopher
Project: Katy Gaston Road from Westpark Dr. to Summerset Ridge Lane, Fort Bend County By Order Of: Domingo w/Allgood Const
Location: Curbs at North Bound and South Bound Katy Gaston Road (New) from Station 11+50 to 27+71 Order Number:

Client: Fort Bend County Engineering Department Number of Specimens: 4
REPORT: REPORT OF CONCRETE COMPRESSIVE STRENGTH TEST LAB NO: 122664-1
Test Method: See Below

TEST RESULTS

Report No: 1-2703-000064

Page 1 of 2

Sample Location: Curbs at North Bound and South Bound Katy Gaston Road **MEETS REFERENCE VALUE**

Specifications: 3500 psi @ 28 days / 3500 psi @ 28 days

Date Sampled: 11/9/16 **Source/Sampled At:** Allied / On site

of Specimens: 4 **Plant:** Allied

Time Batched: 8:34 am

Description: 5.5 Sack

Measurements	Requirements
Air Temp. (°F): 67	Min 40
Concrete Temp. (°F): 78	Max 95
Slump (in.): 1.50	1-5
Air Content by Vol. (%): 4.5	3-6
Unit Weight (pcf):	

Time Sampled: 9:05 am

Mix Design: 22135561

Water Added: 20 Gal

Truck No: 518

Weather: Cloudy

Ticket No: 7078399

Quantity Represented: 10 cu. yds. at 20 cu. yds. placed of a 40 cu. yd. total placement

Placement Location: South Bound Outside Lane Side, Station 13+00

TEST RESULTS

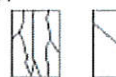
CYL ID	Test Date	Test Age (days)	Diameter (in)	Area (in ²)	Type of Break	Maximum Load (lbs)	Compressive Strength (PSI)	Average Strength (PSI)	Comments
A	11/16/16	7.00	6.00	28.274	5. Type 5	62,900	2,220		
B	11/16/16	7.00	6.00	28.274	5. Type 5	70,670	2,500	2,360	
C	12/7/16	28.00	6.00	28.274	5. Type 5	102,770	3,630		
D	12/7/16	28.00	6.00	28.274	5. Type 5	99,930	3,530	3,580	



Type 1



Type 2



Type 3



Type 4



Type 5



Type 6

Orig: Fort Bend County Engineering Department
(Richmond, TX) Attn: Wesley Crawford
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1-ec AECOM Attn: Amanda Loethen

1-ec AECOM Attn: Huy Ton

1-ec Allgood Construction Co. Inc.

Attn: Michael Boenig

Client No:	091316	Proj No:	16M13347	Date Sampled:	11/09/2016
Report Date:	12/07/2016	Previously Reported:	11/15/2016	Sampled By:	Aicklen, Christopher
Project:	Katy Gaston Road from Westpark Dr. to Summerset Ridge Lane, Fort Bend County			By Order Of:	Domingo w/Allgood Const
Location:	Curbs at North Bound and South Bound Katy Gaston Road (New) from Station 11+50 to 27+71			Order Number:	
Client:	Fort Bend County Engineering Department			Number of Specimens:	4
REPORT:	REPORT OF CONCRETE COMPRESSIVE STRENGTH TEST			LAB NO:	122664-1
				Test Method:	See Below

TEST RESULTS

Report No: 1-2703-000064


Page 2 of 2

Remarks: As per ASTM C31, initial curing will be by the Standard Curing Method. Specimens will be cured utilizing plastic bags final cure method will be within our approved moisture room. Initial Cure Temperatures, Max.= 80°F, and Min.= 60°F.

Test Method: Unless noted, concrete was sampled and tested in accordance with ASTM C31, C39, C172, C143, C231(except 6) or C173, C1064, C1231.

Orig: Fort Bend County Engineering Department
(Richmond, TX) Attn: Wesley Crawford
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1-ec AECOM Attn: Huy Ton
1-ec Allgood Construction Co. Inc.
Attn: Michael Boenig

QC Laboratories, Inc.



Hulugundi Dwarakanath, P.E., Senior Project Engineer

Client No: 091316 Proj No: 16M13347 Date Sampled: 11/11/2016
Report Date: 12/09/2016 Previously Reported: 11/16/2016 Sampled By: Aicklen, Christopher
Project: Katy Gaston Road from Westpark Dr. to Summerset Ridge Lane, Fort Bend County By Order Of: Domingo w/Allgood Const
Location: Paving at South Bound and North Bound Lanes Order Number:

Client: Fort Bend County Engineering Department

REPORT: REPORT OF CONCRETE COMPRESSIVE STRENGTH TEST LAB NO: 122736-1
Test Method: See Below

TEST RESULTS

Report No: 1-2703-000069
Page 1 of 8

Set: 1 of 4

Sample Location: Paving at South Bound and North Bound Lanes

MEETS REFERENCE VALUE

Specifications: 3000 psi @ 28 days / 3000 psi @ 28 days

Date Sampled: 11/11/16 Source/Sampled At: Allied / On site

of Specimens: 6

Plant: Allied

Air Temp. (°F): 61 Min 40

Time Batched: 3:17 am

Description: 5.5 Sk, Paving Mix

Concrete Temp. (°F): 70 Max 95

Time Sampled: 3:45 am

Mix Design: 22135506

Slump (in.): 6.00 1-6

Water Added:

Truck No: 377

Air Content by Vol. (%): 3.5 2.50-4.50

Weather: Cloudy

Ticket No: 4501949

Unit Weight (pcf):

Quantity Represented: 10 cu. yds. at 30 cu. yds. placed of a 523 cu. yd. total placement

Placement Location: Station 29+60, Outside Lane

TEST RESULTS

CYL ID	Test Date	Test Age (days)	Diameter (in)	Area (in ²)	Type of Break	Maximum Load (lbs)	Compressive Strength (PSI)	Average Strength (PSI)	Comments
A	11/18/16	7.00	6.00	28.274	5. Type 5	98,040	3,470		
B	11/18/16	7.00	6.00	28.274	5. Type 5	98,680	3,490	3,480	
C	12/9/16	28.00	6.00	28.274	5. Type 5	119,400	4,220		
D	12/9/16	28.00	6.00	28.274	5. Type 5	116,930	4,140	4,180	
E	1/6/17	56.00	6.00	28.274					

Orig: Fort Bend County Engineering Department
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Attn: Michael Boenig

Client No: 091316 Proj No: 16M13347 Date Sampled: 11/11/2016
Report Date: 12/09/2016 Previously Reported: 11/16/2016 Sampled By: Aicklen, Christopher
Project: Katy Gaston Road from Westpark Dr. to Summerset Ridge Lane, Fort Bend County By Order Of: Domingo w/Allgood Const
Location: Paving at South Bound and North Bound Lanes Order Number:

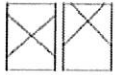
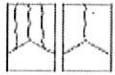

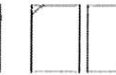


Client: Fort Bend County Engineering Department

REPORT: REPORT OF CONCRETE COMPRESSIVE STRENGTH TEST LAB NO: 122736-1
Test Method: See Below

TEST RESULTS

Report No: 1-2703-000069
Page 2 of 8

TEST RESULTS

CYL ID	Test Date	Test Age (days)	Diameter (in)	Area (in ²)	Type of Break	Maximum Load (lbs)	Compressive Strength (PSI)	Average Strength (PSI)	Comments
F	1/6/17	56.00	6.00	28.274					
									
			Type 1	Type 2	Type 3	Type 4	Type 5	Type 6	

Remarks: As per ASTM C31, initial curing will be by the Standard Curing Method. Specimens will be cured utilizing plastic bags, final cure method will be within our approved moisture room. Initial Cure Temperatures, Max.= 80°F, and Min.= 60°F.

Test Method: Unless noted, concrete was sampled and tested in accordance with ASTM C31, C39, C172, C143, C231(except 6) or C173, C1064, C1231.

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Attn: Michael Boenig

Client No: 091316 Proj No: 16M13347 Date Sampled: 11/11/2016
Report Date: 12/09/2016 Previously Reported: 11/16/2016 Sampled By: Aicklen, Christopher
Project: Katy Gaston Road from Westpark Dr. to Summerset Ridge Lane, Fort Bend County By Order Of: Domingo w/Allgood Const
Location: Paving at South Bound and North Bound Lanes Order Number:

Client: Fort Bend County Engineering Department

REPORT: REPORT OF CONCRETE COMPRESSIVE STRENGTH TEST LAB NO: 122736-1
Test Method: See Below

TEST RESULTS

Report No: 1-2703-000069
Page 3 of 8

Set: 2 of 4

Sample Location: Paving at South Bound and North Bound Lanes

MEETS REFERENCE VALUE

Specifications: 3000 psi @ 28 days / 3000 psi @ 28 days

Date Sampled: 11/11/16 Source/Sampled At: Allied / On site

of Specimens: 6

Plant: Allied

Air Temp. (°F): 68 Min 40

Time Batched: 3:51 am

Description: 5.5 Sk, Paving Mix

Concrete Temp. (°F): 69 Max 95

Time Sampled: 4:20 am

Mix Design: 22135506

Slump (in.): 6.00 1-6

Water Added: 10 Gal

Truck No: 446

Air Content by Vol. (%): 3.5 2.50-4.50

Weather: Cloudy

Ticket No: 4501965

Unit Weight (pcf):

Quantity Represented: 10 cu. yds. at 170 cu. yds. placed of a 523 cu. yd. total placement

Placement Location: Station 25+75, Inside Lane

TEST RESULTS

CYL ID	Test Date	Test Age (days)	Diameter (in)	Area (in ²)	Type of Break	Maximum Load (lbs)	Compressive Strength (PSI)	Average Strength (PSI)	Comments
A	11/18/16	7.00	6.00	28.274	5. Type 5	100,300	3,550		
B	11/18/16	7.00	6.00	28.274	5. Type 5	98,940	3,500	3,520	
C	12/9/16	28.00	6.00	28.274	5. Type 5	122,280	4,320		
D	12/9/16	28.00	6.00	28.274	2. Type 2	117,800	4,170	4,250	
E	1/6/17	56.00	6.00	28.274					

Orig: Fort Bend County Engineering Department
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Attn: Michael Boenig

Client No: 091316 Proj No: 16M13347 Date Sampled: 11/11/2016
Report Date: 12/09/2016 Previously Reported: 11/16/2016 Sampled By: Aicklen, Christopher
Project: Katy Gaston Road from Westpark Dr. to Summerset Ridge Lane, Fort Bend County By Order Of: Domingo w/Allgood Const
Location: Paving at South Bound and North Bound Lanes Order Number:

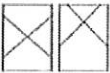
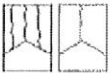




Client: Fort Bend County Engineering Department

REPORT: REPORT OF CONCRETE COMPRESSIVE STRENGTH TEST LAB NO: 122736-1
Test Method: See Below

TEST RESULTS

Report No: 1-2703-000069
Page 4 of 8

TEST RESULTS

CYL ID	Test Date	Test Age (days)	Diameter (in)	Area (in ²)	Type of Break	Maximum Load (lbs)	Compressive Strength (PSI)	Average Strength (PSI)	Comments
F	1/6/17	56.00	6.00	28.274					
									
			Type 1	Type 2	Type 3	Type 4	Type 5	Type 6	

Remarks: As per ASTM C31, initial curing will be by the Standard Curing Method. Specimens will be cured utilizing plastic bags, final cure method will be within our approved moisture room. Initial Cure Temperatures, Max.= 80°F, and Min.= 60°F.

Test Method: Unless noted, concrete was sampled and tested in accordance with ASTM C31, C39, C172, C143, C231(except 6) or C173, C1064, C1231.

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Client No: 091316 Proj No: 16M13347 Date Sampled: 11/11/2016
Report Date: 12/09/2016 Previously Reported: 11/16/2016 Sampled By: Aicklen, Christopher
Project: Katy Gaston Road from Westpark Dr. to Summerset Ridge Lane, Fort Bend County By Order Of: Domingo w/Allgood Const
Location: Paving at South Bound and North Bound Lanes Order Number:

Client: Fort Bend County Engineering Department

REPORT: REPORT OF CONCRETE COMPRESSIVE STRENGTH TEST LAB NO: 122736-1
Test Method: See Below

TEST RESULTS

Report No: 1-2703-000069
Page 5 of 8

Set: 3 of 4

Sample Location: Paving at South Bound and North Bound Lanes

MEETS REFERENCE VALUE

Specifications: 3000 psi @ 28 days / 3000 psi @ 28 days

Date Sampled: 11/11/16 Source/Sampled At: Allied / On site

of Specimens: 6

Plant: Allied

Air Temp. (°F): 65 Min 40

Time Batched: 4:50 am

Description: 5.5 Sk, Paving Mix

Concrete Temp. (°F): 72 Max 95

Time Sampled: 5:30 am

Mix Design: 22135506

Slump (in.): 5.50 1-6

Water Added: 10 Gal

Truck No: 446

Air Content by Vol. (%): 3.75 2.50-4.50

Weather: Cloudy

Ticket No: 4501973

Unit Weight (pcf):

Quantity Represented: 10 cu. yds. at 320 cu. yds. placed of a 523 cu. yd. total placement

Placement Location: Station 20+85, Outside Lane

TEST RESULTS

CYL ID	Test Date	Test Age (days)	Diameter (in)	Area (in²)	Type of Break	Maximum Load (lbs)	Compressive Strength (PSI)	Average Strength (PSI)	Comments
A	11/18/16	7.00	6.00	28.274	5. Type 5	105,530	3,730		
B	11/18/16	7.00	6.00	28.274	5. Type 5	105,430	3,730	3,730	
C	12/9/16	28.00	6.00	28.274	2. Type 2	132,800	4,700		
D	12/9/16	28.00	6.00	28.274	5. Type 5	129,440	4,580	4,640	
E	1/6/17	56.00	6.00	28.274					

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Location: Paving at South Bound and North Bound Lanes Order Number:



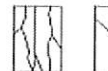



Client: Fort Bend County Engineering Department

REPORT: REPORT OF CONCRETE COMPRESSIVE STRENGTH TEST LAB NO: 122736-1
Test Method: See Below

TEST RESULTS

Report No: 1-2703-000069
Page 6 of 8

TEST RESULTS

CYL ID	Test Date	Test Age (days)	Diameter (in)	Area (in²)	Type of Break	Maximum Load (lbs)	Compressive Strength (PSI)	Average Strength (PSI)	Comments
F	1/6/17	56.00	6.00	28.274					
									
			Type 1	Type 2	Type 3	Type 4	Type 5	Type 6	

Remarks: As per ASTM C31, initial curing will be by the Standard Curing Method. Specimens will be cured utilizing plastic bags, final cure method will be within our approved moisture room. Initial Cure Temperatures, Max.= 80°F, and Min.= 60°F.

Test Method: Unless noted, concrete was sampled and tested in accordance with ASTM C31, C39, C172, C143, C231(except 6) or C173, C1064, C1231.

Orig: Fort Bend County Engineering Department
(Richmond, TX) Attn: Wesley Crawford
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Client: Fort Bend County Engineering Department

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Test Method: See Below

TEST RESULTS

Report No: 1-2703-000069
Page 7 of 8

Set: 4 of 4

Sample Location: Paving at South Bound and North Bound Lanes

MEETS REFERENCE VALUE

Specifications: 3000 psi @ 28 days / 3000 psi @ 28 days

Date Sampled: 11/11/16 Source/Sampled At: Allied / On site

of Specimens: 6

Plant: Allied

Air Temp. (°F): 65 Min 40

Time Batched: 7:00 am

Description: 5.5 Sk, Paving Mix

Concrete Temp. (°F): 71 Max 95

Time Sampled: 7:45 am

Mix Design: 22135506

Slump (in.): 6.00 1-6

Water Added: 10 Gal

Truck No: 456

Air Content by Vol. (%): 4.0 2.50-4.50

Weather: Cloudy

Ticket No: 4502001

Unit Weight (pcf):

Quantity Represented: 10 cu. yds. at 470 cu. yds. placed of a 523 cu. yd. total placement

Placement Location: Station 17+50, Inside Lane

TEST RESULTS

CYL ID	Test Date	Test Age (days)	Diameter (in)	Area (in²)	Type of Break	Maximum Load (lbs)	Compressive Strength (PSI)	Average Strength (PSI)	Comments
A	11/18/16	7.00	6.00	28.274	5. Type 5	105,210	3,720		
B	11/18/16	7.00	6.00	28.274	5. Type 5	101,600	3,590	3,660	
C	12/9/16	28.00	6.00	28.274	2. Type 2	139,990	4,950		
D	12/9/16	28.00	6.00	28.274	3. Type 3	132,450	4,680	4,820	
E	1/6/17	56.00	6.00	28.274					

Orig: Fort Bend County Engineering Department
(Richmond, TX) Attn: Wesley Crawford
(1-cc copy)

1-ec AECOM Attn: Clifford Halvorsen

1-ec AECOM Attn: Amanda Loethen

1-ec AECOM Attn: Huy Ton

1-ec Allgood Construction Co. Inc.

Attn: Michael Boenig

Client No: 091316 Proj No: 16M13347 Date Sampled: 11/11/2016
Report Date: 12/09/2016 Previously Reported: 11/16/2016 Sampled By: Aicklen, Christopher
Project: Katy Gaston Road from Westpark Dr. to Summerset Ridge Lane, Fort Bend County By Order Of: Domingo w/Allgood Const
Location: Paving at South Bound and North Bound Lanes Order Number:


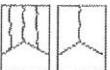
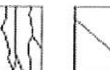



Client: Fort Bend County Engineering Department

REPORT: REPORT OF CONCRETE COMPRESSIVE STRENGTH TEST LAB NO: 122736-1
Test Method: See Below

TEST RESULTS

Report No: 1-2703-000069
Page 8 of 8

TEST RESULTS

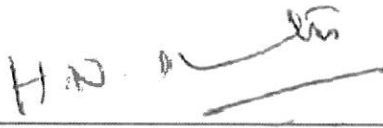
CYL ID	Test Date	Test Age (days)	Diameter (in)	Area (in ²)	Type of Break	Maximum Load (lbs)	Compressive Strength (PSI)	Average Strength (PSI)	Comments
F	1/6/17	56.00	6.00	28.274					
									
			Type 1	Type 2	Type 3	Type 4	Type 5	Type 6	

Remarks: As per ASTM C31, initial curing will be by the Standard Curing Method. Specimens will be cured utilizing plastic bags, final cure method will be within our approved moisture room. Initial Cure Temperatures, Max.= 80°F, and Min.= 60°F.

Test Method: Unless noted, concrete was sampled and tested in accordance with ASTM C31, C39, C172, C143, C231(except 6) or C173, C1064, C1231.

Orig: Fort Bend County Engineering Department
(Richmond, TX) Attn: Wesley Crawford
(1-cc copy)
1-ec AECOM Attn: Clifford Halvorsen
1-ec AECOM Attn: Amanda Loethen
1-ec AECOM Attn: Huy Ton
1-ec Allgood Construction Co. Inc.
Attn: Michael Boenig

QC Laboratories, Inc.


Hulugundi Dwarakanath, P.E., Senior Project Engineer

Client No: 091316 Proj No: 16M13347 Date Sampled: 11/30/2016
Report Date: 12/29/2016 Previously Reported: 12/05/2016 Sampled By: Allensworth, Allen
Project: Katy Gaston Road from Westpark Dr. to Summerset Ridge Lane, Fort Bend County By Order Of: Domingo w/Allgood Const
Location: Paving, Driveways & Sidewalks Order Number:
Client: Fort Bend County Engineering Department Number of Specimens: 6
REPORT: REPORT OF CONCRETE COMPRESSIVE STRENGTH TEST LAB NO: 123122-1
Test Method: See Below

TEST RESULTS

Report No: 1-2703-000078
Page 1 of 2

Sample Location: Paving, Driveways & Sidewalks

MEETS REFERENCE VALUE

Specifications: 3500 psi @ 28 days / 3500 psi @ 28 days

Date Sampled: 11/30/16 Source/Sampled At: Allied / Onsite

of Specimens: 6

Plant: Allied

Time Batched: 12:25 am

Description: 5.5 sacks

Time Sampled: 1:00 pm

Mix Design: 22135506

Water Added: 15 Gal

Truck No: 400

Weather: Sunny, Cool

Ticket No: 4503135

Quantity Represented: 10 cu. yds. at 10 cu. yds. placed of a 10 cu. yd. total placement

Placement Location: Katy Gaston Road Station 16+00, 4' North of Centerline of Driveway

Measurements Requirements

Air Temp. (°F): 68 Min. 40

Concrete Temp. (°F): 70 Max. 95

Slump (in.): 6.50 1-6

Air Content by Vol. (%): 5.0 2.5-4.5

Unit Weight (pcf):

TEST RESULTS

CYL ID	Test Date	Test Age (days)	Diameter (in)	Area (in ²)	Type of Break	Maximum Load (lbs)	Compressive Strength (PSI)	Average Strength (PSI)	Comments
A	12/7/16	7.00	6.00	28.274	5. Type 5	80,070	2,830		
B	12/7/16	7.00	6.00	28.274	5. Type 5	82,890	2,930	2,880	
C	12/28/16	28.00	6.00	28.274	2. Type 2	100,440	3,550		
D	12/28/16	28.00	6.00	28.274	5. Type 5	108,720	3,850	3,700	
E	1/25/17	56.00	6.00	28.274					
F	1/25/17	56.00	6.00	28.274					



Type 1



Type 2



Type 3



Type 4



Type 5



Type 6

Orig: Fort Bend County Engineering Department
(Richmond, TX) Attn: Wesley Crawford
(1-cc copy)

1-ec AECOM Attn: Clifford Halvorsen

1-ec AECOM Attn: Amanda Loethen

1-ec AECOM Attn: Huy Ton

1-ec Allgood Construction Co. Inc.

Attn: Michael Boenig

Client No:	091316	Proj No:	16M13347	Date Sampled:	11/30/2016
Report Date:	12/29/2016	Previously Reported:	12/05/2016	Sampled By:	Allensworth, Allen
Project:	Katy Gaston Road from Westpark Dr. to Summerset Ridge Lane, Fort Bend County			By Order Of:	Domingo w/Allgood Const
Location:	Paving, Driveways & Sidewalks			Order Number:	
Client:	Fort Bend County Engineering Department			Number of Specimens:	6
REPORT:	REPORT OF CONCRETE COMPRESSIVE STRENGTH TEST			LAB NO:	123122-1
				Test Method:	See Below

TEST RESULTS

Report No: 1-2703-000078
Page 2 of 2

Remarks: As per ASTM C31, initial curing will be by the Standard Curing Method. Specimens will be cured utilizing plastic bags; final curing method will be within our approved moisture room. Initial Cure Temperature, Max.= 64°F and Min.= 33°F.

Test Method: Unless noted, concrete was sampled and tested in accordance with ASTM C31, C39, C172, C143, C231(except 6) or C173, C1064, C1231.

Orig: Fort Bend County Engineering Department
(Richmond, TX) Attn: Wesley Crawford
(1-cc copy)
1-ec AECOM Attn: Clifford Halvorsen
1-ec AECOM Attn: Amanda Loethen
1-ec AECOM Attn: Huy Ton
1-ec Allgood Construction Co. Inc.
Attn: Michael Boenig

QC Laboratories, Inc.


Hulugundi Dwarakanath, P.E., Senior Project Engineer



LABORATORIES, INC.
Geotechnical & Materials Engineers

CPU # 79

PROJECT DAILY ACTIVITY SUMMARY

Project: Katy Galson Rd from West Park
Dr to Summer Ridge Lane
Client: Fort Bend County Engineering Dept
Contractor: A U Good Construction
COH WBS No.: _____

Project No.: 16413347
Report No.: 123123
Date: 12/1
Testing Lab: QC Laboratories, Inc
HC Job No.: _____

TIME RECORD

Time depart office: 12:00 PM Time arrive project: 1:40 PM Time depart project: 1:25 PM Time arrive office: 1:45 PM
Lunch begin: _____ Lunch End: _____
Billable RT hours: 1.75 Billable OT hours: - Technician Name: Thomas Martinez

ACTIVITIES

_____ Proctor Sample P/U	_____ Concrete Sample P/U	_____ Asphalt Sample P/U
_____ Field Density Testing	_____ Concrete Sampling	_____ Asphalt Testing
_____ Other (Description) _____		

SUMMARY OF FIELD ACTIVITIES

Teel arrived to project teel picked up cylinders 1st of 6.

Technician Signature: Thomas L. Martinez

Certification Level & Organization: Non-Certified

Inspector Signature: _____

Inspector Name (print): _____

Client No: 091316 Proj No: 16M13347 Date Sampled: 12/01/2016
Report Date: 12/05/2016 Sampled By: Martinez, Thomas
Project: Katy Gaston Road from Westpark Dr. to Summerset Ridge Lane, Fort Bend County By Order Of: Domingo w/Allgood Const
Location: Paving, Driveways & Sidewalks Order Number:

Client: Fort Bend County Engineering Department

REPORT: Report of Concrete Sample Pickup

LAB NO: 123123

TEST RESULTS


Report No: 1-2703-000079
Page 1 of 1

On 12/01/2016, a representative of QC Laboratories, Inc. was at the above referenced project to pick up 1 set of 6 cylinders which were cast on 11/30/2016. The samples were returned to the laboratory for curing and testing.

Compressive strength test results on the cylinders will be reported separately.

Orig: Fort Bend County Engineering Department
(Richmond, TX) Attn: Wesley Crawford
(1-cc copy)
1-ec AECOM Attn: Clifford Halvorsen
1-ec AECOM Attn: Amanda Loethen
1-ec AECOM Attn: Huy Ton
1-ec Allgood Construction Co. Inc.
Attn: Michael Boenig

QC Laboratories, Inc.


Hulugundi Dwarakanath, P.E., Senior Project Engineer



LABORATORIES, INC.
Geotechnical & Materials Engineers

#IC #80
(4) y1 #81

PROJECT DAILY ACTIVITY SUMMARY

Project: Katy-Canton Rd.

Project No.: Ham 13347

Client: Eastland Co.

Report No.: 123 269

Contractor: Allgood

Date: 12/7/16

COH WBS No.: _____

Testing Lab: QC Laboratories, Inc

HC Job No.: _____

TIME RECORD

Time depart office: 6:30am Time arrive project: 7:30am Time depart project: 12:30pm Time arrive office: 1:30pm

Lunch begin: — Lunch End: —

Billable RT hours: 7.0 Billable OT hours: — Technician Name: Chris Aicklen

ACTIVITIES

<input type="checkbox"/> Proctor Sample P/U	<input type="checkbox"/> Concrete Sample P/U	<input type="checkbox"/> Asphalt Sample P/U
<input type="checkbox"/> Field Density Testing	<input checked="" type="checkbox"/> Concrete Sampling	<input type="checkbox"/> Asphalt Testing
<input type="checkbox"/> Other (Description) _____		

SUMMARY OF FIELD ACTIVITIES

Service techn. arrived on location to perform Conc. testing/sampling of Curbs and wheelchair ramps @ driveways. Techn. made one set of four cylinders. Test results are in accordance w/ project specs.

Technician Signature: C.A.

Certification Level & Organization: W.H. West

Inspector Signature: Roberto Rodriguez

Inspector Name (print): Roberto Rodriguez

Client No: 091316 Proj No: 16M13347 Date Sampled: 12/07/2016
Report Date: 12/08/2016 Sampled By: Aicklen, Christopher
Project: Katy Gaston Road from Westpark Dr. to Summerset Ridge Lane, Fort Bend County By Order Of: Domingo w/Allgood Const
Location: Pedestrian Ramps and Curbs Order Number:

Client: Fort Bend County Engineering Department

REPORT: Report of Field Inspection of Concrete

LAB NO: 123269

TEST RESULTS

Report No: 1-2703-000080

Page 1 of 1

On 12/07/2016, a representative of QC Laboratories, Inc. was at the above referenced project in order to perform a field inspection of concrete. The area where the concrete was placed can be described as Pedestrian Ramps and Curbs.

A total of 10 cubic yards of concrete was placed while the technician was on-site. The concrete delivered was a 5.5 sacks mix, design no. 22135561, supplied by Allied. 1 set of 4 cylinders were cast for this placement.

Orig: Fort Bend County Engineering Department
(Richmond, TX) Attn: Wesley Crawford
(1-cc copy)

1-ec AECOM Attn: Clifford Halvorsen


1-ec AECOM Attn: Amanda Loethen

1-ec AECOM Attn: Huy Ton

1-ec Allgood Construction Co. Inc.

Attn: Michael Boenig

QC Laboratories, Inc.



Hulugundi Dwarakanath, P.E., Senior Project Engineer

Client No: 091316 Proj No: 16M13347 Date Sampled: 12/07/2016
Report Date: 01/05/2017 Previously Reported: 12/13/2016 Sampled By: Aicklen, Christopher
Project: Katy Gaston Road from Westpark Dr. to Summerset Ridge Lane, Fort Bend County By Order Of: Domingo w/Allgood Const
Location: Curb at South Bound Median, Station 20+50 Order Number:
Client: Fort Bend County Engineering Department Number of Specimens: 4
REPORT: REPORT OF CONCRETE COMPRESSIVE STRENGTH TEST LAB NO: 123269-1
Test Method: See Below

TEST RESULTS

Report No: 1-2703-000081
Page 1 of 2

Sample Location: Curb at South Bound Median, Station 20+50

FAILS TO MEET REFERENCE VALUE

Specifications: 3500 psi @ 28 days / 3500 psi @ 28 days

Date Sampled: 12/7/16

Source/Sampled At: Allied / Onsite

of Specimens: 4

Plant: Allied

Time Batched: 8:00 am

Description: 5.5 sacks

Time Sampled: 8:55 am

Mix Design: 22135561

Water Added: 5 Gal

Truck No: 526

Weather: Cloudy

Ticket No: n/a

Quantity Represented: 10 cu. yds. at 10 cu. yds. placed of a 10 cu. yd. total placement

Placement Location: Pedestrian Ramps and Curbs at Stations 14+86 & 16+00, North Bound Curbs: on Median Side; Stations 17+95 - 19+50 and Outside Lane; Stations 17+95 to 18+70, and South Bound Curbs: on Median Side; Stations 19+00 to 20+80

		<u>Measurements</u>		<u>Requirements</u>
		Air Temp. (°F):	53	Min 40
		Concrete Temp. (°F):	72	Max 95
		Slump (in.):	3.50	1-6
		Air Content by Vol. (%):	4.5	2.5-4.5
		Unit Weight (pcf):		

TEST RESULTS

CYL ID	Test Date	Test Age (days)	Diameter (in)	Area (in²)	Type of Break	Maximum Load (lbs)	Compressive Strength (PSI)	Average Strength (PSI)	Comments
A	12/14/16	7.00	6.00	28.274	5. Type 5	60,600	2,140		
B	12/14/16	7.00	6.00	28.274	5. Type 5	69,190	2,450	2,300	
C	1/4/17	28.00	6.00	28.274	2. Type 2	72,550	2,570		
D	1/4/17	28.00	6.00	28.274	2. Type 2	81,340	2,880	2,720	



Type 1



Type 2



Type 3



Type 4



Type 5



Type 6

Orig: Fort Bend County Engineering Department
(Richmond, TX) Attn: Wesley Crawford
(1-cc copy)

1-ec AECOM Attn: Clifford Halvorsen

1-ec AECOM Attn: Amanda Loethen

1-ec AECOM Attn: Huy Ton

1-ec Allgood Construction Co. Inc.

Attn: Michael Boenig

Client No:	091316	Proj No:	16M13347	Date Sampled:	12/07/2016
Report Date:	01/05/2017	Previously Reported:	12/13/2016	Sampled By:	Aicklen, Christopher
Project:	Katy Gaston Road from Westpark Dr. to Summerset Ridge Lane, Fort Bend County			By Order Of:	Domingo w/Allgood Const
Location:	Curb at South Bound Median, Station 20+50			Order Number:	
Client:	Fort Bend County Engineering Department			Number of Specimens:	4
REPORT:	REPORT OF CONCRETE COMPRESSIVE STRENGTH TEST			LAB NO:	123269-1
				Test Method:	See Below

TEST RESULTS


Report No: 1-2703-000081
Page 2 of 2

Remarks: As per ASTM C31, initial curing will be by the Standard Curing Method. Specimens will be cured utilizing plastic bags, final cure method will be within our approved moisture room. Initial Cure Temperatures, Max. = 57° F, and Min. = 46° F.

Test Method: Unless noted, concrete was sampled and tested in accordance with ASTM C31, C39, C172, C143, C231 or C173, C1064, C1231.

Orig: Fort Bend County Engineering Department
(Richmond, TX) Attn: Wesley Crawford
(1-cc copy)
1-ec AECOM Attn: Clifford Halvorsen
1-ec AECOM Attn: Amanda Loethen
1-ec AECOM Attn: Huy Ton
1-ec Allgood Construction Co. Inc.
Attn: Michael Boenig

QC Laboratories, Inc.



Hulugundi Dwarakanath, P.E., Senior Project Engineer



LABORATORIES, INC.
Geotechnical & Materials Engineers

CPU #82

PROJECT DAILY ACTIVITY SUMMARY

Project: Katy Gaston Rd. From West Park Dr. to Somerset Ridge La., Fort Bend County
Client: Fort Bend County Eng. Dept.
Contractor: Allgood Const
COH WBS No.: _____
Project No.: 16 M 13347
Report No.: 123,270
Date: 12-8-16
Testing Lab: QC Laboratories, Inc
HC Job No.: _____

TIME RECORD

Time depart office: 12:45pm Time arrive project: 1:45pm Time depart project: 2:00pm Time arrive office: 3:00pm
Lunch begin: _____ Lunch End: _____
Billable RT hours: 2.25 Billable OT hours: _____ Technician Name: Sean Slade

ACTIVITIES

_____ Proctor Sample P/U	<u>X</u> _____ Concrete Sample P/U	_____ Asphalt Sample P/U
_____ Field Density Testing	_____ Concrete Sampling	_____ Asphalt Testing
_____ Other (Description) _____		

SUMMARY OF FIELD ACTIVITIES

Picked up 1 set of 4 cylinders

Technician Signature: _____

Certification Level & Organization: ACI
Non-Certified

Inspector Signature: _____

Inspector Name (print): _____

Client No: 091316 Proj No: 16M13347 Date Sampled: 12/08/2016
Report Date: 12/12/2016 Sampled By: Slade, Sean
Project: Katy Gaston Road from Westpark Dr. to Summerset Ridge Lane, Fort Bend County By Order Of: Domingo w/Allgood Const
Location: Pedestrian Ramps and Curbs Order Number:

Client: Fort Bend County Engineering Department

REPORT: Report of Concrete Sample Pickup

LAB NO: 123270

TEST RESULTS

Report No: 1-2703-000082

Page 1 of 1

On 12/08/2016, a representative of QC Laboratories, Inc. was at the above referenced project to pick up 1 set of 4 cylinders which were cast on 12/07/2016. The samples were returned to the laboratory for curing and testing.

Compressive strength test results on the cylinders will be reported separately.

Orig: Fort Bend County Engineering Department
(Richmond, TX) Attn: Wesley Crawford
(1-cc copy)

1-ec AECOM Attn: Clifford Halvorsen

1-ec AECOM Attn: Amanda Loethen

1-ec AECOM Attn: Huy Ton

1-ec Allgood Construction Co. Inc.

Attn: Michael Boenig

QC Laboratories, Inc.



Hulugundi Dwarakanath, P.E., Senior Project Engineer