

SECTION 00805

WORK CHANGE DIRECTIVE

No. 2

DATE OF ISSUANCE 8/25/21 EFFECTIVE DATE 8/25/21

Owner: St. Charles Parish

Contractor: Barriere Construction Company, LLC

Contract: P210302

Project: Asphalt Pavement Maintenance – Task Order 1

Owner's Contract No.: P210302 Engineer's Contract No.: _____

ENGINEER: St. Charles Parish

Contractor is directed to proceed promptly with the following change(s):

Description: Install an additional one inch (1") leveling course to Mark Dr, Matthew Dr, Pleasant Valley Dr; and Bayou Estates due to base exposure during milling of roads.

Approval of an additional mix design for use on the project. Streets paved will be noted by Contractor.

Attachments: (List documents supporting change)

- Price quote for item X02 for 1" Leveling Course
- Copy of approved mix design

Purpose for Work Change Directive:

Directive to proceed promptly with the Work described herein, prior to agreeing to changes on Contract Price and Contract Time, is issued due to: *(check one)*

- Non-agreement on pricing of proposed change.
- Necessity to proceed for schedule or other project reasons.

Estimated Change in Contract Price and Contract Times (non-binding, preliminary):

Contract Price: \$ 177,421.76 [increase] [~~decrease~~]

Contract Time _____ days [increase] [decrease]

Basis of estimated change in Contract Price:

- Lump Sum Unit Price
- Cost of the Work Other

Recommended:
By: Zamir Zamir
Engineer (Authorized Signature)

Limited Authorization By*:
By: Matthew B. B...
Owner's Representative*

Received:
By: C. Ta
Contractor (Authorized Signature)

Title: Sr Parish Engr
Date: 8-25-21

Title: Pw Director
Date: 08/25/2021

Title: PROJECT MANAGER
Date: 9/21/21

*Owner's Representative is not authorized to finalize a Change Order nor does the Work Change Directive substitute the Change Order process as more fully set out in the General Conditions of the Construction Contract.

Approved by Funding Agency (if applicable)

By: _____ Date: _____
Title: _____

St Charles Parish Asphalt Pavement Maintenance
 Barriere Job No. 200167.000
 Change Order #002 - 1" Leveling Course
 Change Order Breakdown
 8/24/2021



Items to be added to Contract

Item #	Description	UM	Qty.	Cost	Total Cost	Notes
X02	1" Leveling Course	SY	30,850.00	\$5.75	\$177,421.76	
	Items to be added to Contract Total				\$177,421.76	
	Change Order Total				\$177,421.76	

St Charles Parish Asphalt Pavement Maintenance

Proposed Change Order - COST SUMMARY

PROJECT: St Charles Parish Asphalt Pavement Maintenance
 CHANGE ORDER NO.: 2
 DATE OF WORK: TBD



Description of the work performed:
 1" Leveling Course

LABOR											
Description	Craft / Salary	Qty. (EA)	S.T. HOURS	O.T. HOURS	Total Hours	S.T. Rate	O.T. Rate	ST Total	OT Total	Total Wage	Extension
Foreman	Salary Hours	1.00	24.00		24.00	\$ 57.92	\$ 57.92	\$ 1,390.08	\$ -	\$ 1,390.08	
Tack Truck Operator	Craft Hours	1.00	24.00	9.00	33.00	\$ 27.03	\$ 40.55	\$ 648.72	\$ 364.91	\$ 1,013.63	
Paver Operator	Craft Hours	3.00	24.00	9.00	99.00	\$ 34.92	\$ 52.38	\$ 2,514.24	\$ 471.42	\$ 2,985.66	
Roller Operator	Craft Hours	3.00	24.00	9.00	99.00	\$ 34.92	\$ 52.38	\$ 2,514.24	\$ 471.42	\$ 2,985.66	
Asphalt Raker/Luteman	Craft Hours	3.00	24.00	9.00	99.00	\$ 24.96	\$ 37.44	\$ 1,797.12	\$ 336.96	\$ 2,134.08	
QC Technician	Craft Hours	1.00	24.00	9.00	33.00	\$ 36.42	\$ 54.63	\$ 874.08	\$ 491.67	\$ 1,365.75	
Rubber Tire Operator	Craft Hours	1.00	24.00	9.00	33.00	\$ 27.03	\$ 40.55	\$ 648.72	\$ 364.91	\$ 1,013.63	
Total Hours					420.00						
Craft Hours					396.00						
Salary Hours					24.00						
Subtotals - Labor										\$ 12,888.48	\$ 12,888.48
Payroll Taxes						10.00%	of	Total Wages		\$ 1,288.85	
Insurance (General Liability, Workers Comp)						22.00%	of	Total Wages		\$ 2,835.47	
Insurance, Benefits, & Taxes (Labor Burden)	Staff Personnel Benefits						Per HR	Total Hours (Salary only)		\$ -	
	Hourly Personnel Benefits						Per HR	Total Hours (Craft only)		\$ -	
Subtotals - Labor Insurance & Taxes, Benefits										\$ 4,124.31	\$ 4,124.31
Labor Subtotal:										\$ 17,012.79	\$ 17,012.79
Labor Total:										\$ 17,012.79	\$ 17,012.79

MATERIAL											
Description	Quantity	UNIT	Price	Material cost must be supported by quotations and/or invoices from suppliers.							Extension
Superpave Level A Incidental	1697.00	TONS	\$ 60.45								\$ 102,583.65
Asphalt Emulsion SS-1HH	1851.00	GAL	\$ 2.42								\$ 4,479.42
Tax 10 %											
Materials Subtotal:										\$ 107,063.07	\$ 107,063.07

EQUIPMENT- Blue Book												
Description	Equip. #/Make/Model	Quantity	Hours	Rate	Standby Hours	Standby Rate	Equipment cost supported by quotations, invoices or Blue Book Rental Rate				Extension	
Service Truck	Misc 4x2 25KGVW DSL On Highway Flatbed Trucks	1.00	33.00	\$ 24.27							Equipment Watch	\$ 800.91
Rubber tire	Caterpillar 416F2 Tractor-Loader-Backhoe	1.00	33.00	\$ 39.34							Equipment Watch	\$ 1,298.22
Broom	Broce RJ-350 Self propelled Pavement Brooms	1.00	33.00	\$ 30.65							Equipment Watch	\$ 1,011.45
Tack Truck	Misc 4x2 25KGVW DSL On Highway Flatbed Trucks	1.00	33.00	\$ 24.27							Equipment Watch	\$ 800.91
Asphalt Paver	Caterpillar AP1055F Crawler Mounted Asphalt Pavers	1.00	33.00	\$ 274.35							Equipment Watch	\$ 9,053.55
Large Roller	Caterpillar CB54B Tandem Vibratory Compactors	2.00	33.00	\$ 76.42							Equipment Watch	\$ 5,043.72
QC Trailer	Misc LEVEL 2 22.5 Fixed Goosneck Equipment Trailers	1.00	33.00	\$ 11.16							Equipment Watch	\$ 368.28
Small Roller	Caterpillar CB-24 Tandem Vibratory Compactors	1.00	33.00	\$ 26.53							Equipment Watch	\$ 875.49
Blue Book Equipment Subtotal:										\$ 19,252.53	\$ 19,252.53	

DIRECT COST (Labor & Materials) = \$124,075.86
 Plus (Mark Up On Labor & Materials): 15% = \$18,611.38
 DIRECT COST (Equipment) = \$19,252.53
SUBTOTAL = \$161,939.77

SUBCONTRACTORS											
Company	Description	Description of Work	Quantity	UNIT	Unit Cost	Subcontractor cost must be supported by quotations and/or invoices net of any discounts.				Extension	
Hired	Trucking	Asphalt Triaxies (5 Trucks @ 10 HR/EA for 3 days)	150	Hr	\$ 85.00						\$ 12,750.00
Subcontracts Subtotal:										\$ 12,750.00	

SUBCONTRACT COST = \$12,750.00
 Plus (Mark Up): 10% = \$1,275.00
SUBTOTAL = \$14,025.00

TOTAL											
Subtotal =										\$175,964.77	
Bond Cost (\$7.20 / \$1000.00 + 15% Markup) =										\$1,456.99	
TOTAL COST =										\$177,421.76	
Qty =										30,850.00 SY	
Unit Price										\$5.75 SY	

Rental Rate Blue Book®

August 25, 2020

Broce RJ-350

Self Propelled Pavement Brooms

Size Class:

All

Weight:

N/A


Configuration for RJ-350

 Horsepower **80.0** Power Mode **Diesel**
Blue Book Rates

** FHWA Rate is equal to the monthly ownership cost divided by 176 plus the hourly estimated operating cost.

	Ownership Costs				Estimated Operating Costs Hourly	FHWA Rate** Hourly
	Monthly	Weekly	Daily	Hourly		
Published Rates	USD \$2,490.00	USD \$700.00	USD \$175.00	USD \$26.00	USD \$17.45	USD \$31.60
Adjustments						
Region (Louisiana: 93.3%)	(USD \$166.83)	(USD \$46.90)	(USD \$11.73)	(USD \$1.74)		
Model Year (2020: 100%)	-	-	-	-		
Adjusted Hourly Ownership Cost (100%)	-	-	-	-		
Hourly Operating Cost (100%)					-	
Total:	USD \$2,323.17	USD \$653.10	USD \$163.27	USD \$24.26	USD \$17.45	USD \$30.65

Non-Active Use Rates

Hourly

Standby Rate	USD \$5.81
Idling Rate	USD \$20.30

Rate Element Allocation

Element	Percentage	Value
Depreciation (ownership)	35%	USD \$871.50/mo
Overhaul (ownership)	56%	USD \$1,394.40/mo
CFC (ownership)	3%	USD \$74.70/mo
Indirect (ownership)	6%	USD \$149.40/mo
Fuel (operating) @ USD 2.40	41%	USD \$7.10/hr

Revised Date: 2nd half 2020

These are the most accurate rates for the selected Revision Date(s). However, due to more frequent online updates, these rates may not match Rental Rate Blue Book Print. Visit the Cost Recovery Product Guide on our Help page for more information.

 The equipment represented in this report has been exclusively prepared for HEATH WAHDEN
(heathw@barriere.com)

Rental Rate Blue Book®

August 25, 2020

Caterpillar 416F2

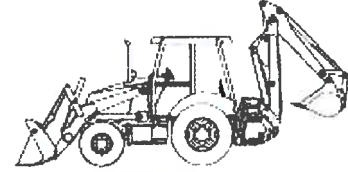
Tractor-Loader-Backhoes

Size Class:

14' to Under 15'

Weight:

N/A


Configuration for 416F2

Drive	4WD	Operator Protection	EROPS
Power Mode	Diesel		

Blue Book Rates

** FHWA Rate is equal to the monthly ownership cost divided by 176 plus the hourly estimated operating cost.

	Ownership Costs				Estimated Operating Costs Hourly USD \$18.76	FHWA Rate** Hourly USD \$40.61
	Monthly	Weekly	Daily	Hourly		
Published Rates	USD \$3,845.00	USD \$1,075.00	USD \$270.00	USD \$41.00		
Adjustments						
Region (Louisiana: 94.2%)	(USD \$223.01)	(USD \$62.35)	(USD \$15.66)	(USD \$2.38)		
Model Year (2020: 100%)	-	-	-	-		
Adjusted Hourly Ownership Cost (100%)	-	-	-	-		
Hourly Operating Cost (100%)					-	
Total:	USD \$3,621.99	USD \$1,012.65	USD \$254.34	USD \$38.62	USD \$18.76	USD \$39.34

Non-Active Use Rates

Standby Rate	Hourly USD \$10.70
Idling Rate	Hourly USD \$28.70

Rate Element Allocation

Element	Percentage	Value
Depreciation (ownership)	36%	USD \$1,384.20/mo
Overhaul (ownership)	48%	USD \$1,845.60/mo
CFC (ownership)	7%	USD \$269.15/mo
Indirect (ownership)	9%	USD \$346.05/mo
Fuel (operating) @ USD 2.40	43%	USD \$8.12/hr

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 (heathw@barriere.com)

Rental Rate Blue Book®
Caterpillar AP1055F

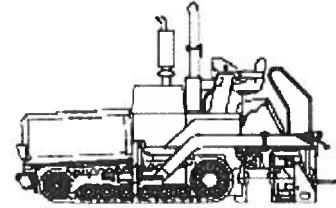
Crawler Mounted Asphalt Pavers

Size Class:

35,500 lbs & Over

Weight:

N/A


Configuration for AP1055F

Horsepower	225.0 hp	Power Mode	Diesel
Screed Model	SE60 V		

Blue Book Rates

** FHWA Rate is equal to the monthly ownership cost divided by 176 plus the hourly estimated operating cost.

	Ownership Costs				Estimated Operating Costs Hourly	FHWA Rate** Hourly
	Monthly	Weekly	Daily	Hourly		
Published Rates	USD \$30,060.00	USD \$8,415.00	USD \$2,105.00	USD \$315.00	USD \$119.44	USD \$290.24
Adjustments						
Region (Louisiana: 90.7%)	(USD \$2,795.58)	(USD \$782.59)	(USD \$195.76)	(USD \$29.30)		
Model Year (2020: 100%)	-	-	-	-		
Adjusted Hourly Ownership Cost (100%)	-	-	-	-		
Hourly Operating Cost (100%)					-	
Total:	USD \$27,264.42	USD \$7,632.40	USD \$1,909.23	USD \$285.70	USD \$119.44	USD \$274.35

Non-Active Use Rates

Hourly

Standby Rate	USD \$57.32
Idling Rate	USD \$177.05

Rate Element Allocation

Element	Percentage	Value
Depreciation (ownership)	27%	USD \$8,116.20/mo
Overhaul (ownership)	63%	USD \$18,937.80/mo
CFC (ownership)	4%	USD \$1,202.40/mo
Indirect (ownership)	6%	USD \$1,803.60/mo
Fuel (operating) @ USD 2.40	19%	USD \$22.14/hr

Revised Date: 2nd half 2020

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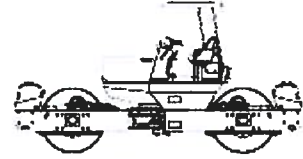
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Rental Rate Blue Book®

August 25, 2020

Caterpillar CB-24

Tandem Vibratory Compactors

 Size Class:
1.8 - 2.9 MTons
 Weight:
5952 lbs

Configuration for CB-24

 Drum Width **47.0 in** Power Mode **Diesel**
Blue Book Rates

** FHWA Rate is equal to the monthly ownership cost divided by 176 plus the hourly estimated operating cost.

	Ownership Costs				Estimated Operating Costs	FHWA Rate**
	Monthly	Weekly	Daily	Hourly	Hourly	Hourly
Published Rates	USD \$2,990.00	USD \$840.00	USD \$210.00	USD \$32.00	USD \$10.49	USD \$27.48
Adjustments						
Region (Louisiana: 94.4%)	(USD \$167.44)	(USD \$47.04)	(USD \$11.76)	(USD \$1.79)		
Model Year (2020: 100%)	-	-	-	-		
Adjusted Hourly Ownership Cost (100%)	-	-	-	-		
Hourly Operating Cost (100%)					-	
Total:	USD \$2,822.56	USD \$792.96	USD \$198.24	USD \$30.21	USD \$10.49	USD \$26.53

Non-Active Use Rates

	Hourly
Standby Rate	USD \$7.06
Idling Rate	USD \$17.83

Rate Element Allocation

Element	Percentage	Value
Depreciation (ownership)	30%	USD \$897.00/mo
Overhaul (ownership)	56%	USD \$1,674.40/mo
CFC (ownership)	5%	USD \$149.50/mo
Indirect (ownership)	9%	USD \$269.10/mo
Fuel (operating) @ USD 2.40	17%	USD \$1.79/hr

Revised Date: 2nd half 2020

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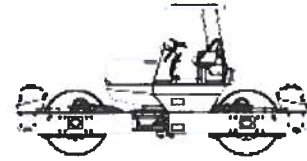
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 (heathw@barriere.com)

Rental Rate Blue Book®

August 25, 2020

Caterpillar CB54B

Tandem Vibratory Compactors

 Size Class:
8.0 - 11.2 MTons
 Weight:
 N/A

Configuration for CB54B

 Drum Width **67.0 in** Power Mode **Diesel**
Blue Book Rates

** FHWA Rate is equal to the monthly ownership cost divided by 176 plus the hourly estimated operating cost.

	Ownership Costs				Estimated Operating Costs Hourly USD \$23.02	FHWA Rate** Hourly USD \$79.58
	Monthly	Weekly	Daily	Hourly		
Published Rates	USD \$9,955.00	USD \$2,790.00	USD \$700.00	USD \$105.00		
Adjustments						
Region (Louisiana: 94.4%)	(USD \$557.48)	(USD \$156.24)	(USD \$39.20)	(USD \$5.88)		
Model Year (2020: 100%)	-	-	-	-		
Adjusted Hourly Ownership Cost (100%)	-	-	-	-		
Hourly Operating Cost (100%)					-	
Total:	USD \$9,397.52	USD \$2,633.76	USD \$660.80	USD \$99.12	USD \$23.02	USD \$76.42

Non-Active Use Rates

Hourly

Standby Rate	USD \$23.49
Idling Rate	USD \$53.40

Rate Element Allocation

Element	Percentage	Value
Depreciation (ownership)	30%	USD \$2,986.50/mo
Overhaul (ownership)	56%	USD \$5,574.80/mo
CFC (ownership)	5%	USD \$497.75/mo
Indirect (ownership)	9%	USD \$895.95/mo

Fuel cost data is not available for these rates.

Revised Date: 2nd half 2020

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Rental Rate Blue Book®

September 9, 2019

Miscellaneous LEVEL 2 22.5

Fixed Gooseneck Equipment Trailers

 Size Class:
 All
 Weight:
 8900 UNKNOWN

Configuration for LEVEL 2 22.5

Capacity	22.5 t	Deck Length	14' - 18'
Deck Type	Level	Number Of Axles	2.0

Blue Book Rates

** FHWA Rate is equal to the monthly ownership cost divided by 176 plus the hourly estimated operating cost.

	Ownership Costs				Estimated Operating Costs	FHWA Rate**
	Monthly	Weekly	Daily	Hourly	Hourly	Hourly
Published Rates	USD \$1,110.00	USD \$310.00	USD \$78.00	USD \$12.00	USD \$5.35	USD \$11.66
Adjustments						
Region (Louisiana: 92.5%)	(USD \$83.25)	(USD \$23.25)	(USD \$5.85)	(USD \$0.90)		
Model Year (2019: 100%)	-	-	-	-		
Adjusted Hourly Ownership Cost (100%)	-	-	-	-		
Hourly Operating Cost (100%)					-	
Total:	USD \$1,026.75	USD \$286.75	USD \$72.15	USD \$11.10	USD \$5.35	USD \$11.18

Non-Active Use Rates

Hourly

Standby Rate	USD \$3.73
Idling Rate	USD \$5.83

Rate Element Allocation

Element	Percentage	Value
Depreciation (ownership)	44%	USD \$488.40/mo
Overhaul (ownership)	36%	USD \$399.60/mo
CFC (ownership)	8%	USD \$88.80/mo
Indirect (ownership)	12%	USD \$133.20/mo

Fuel cost data is not available for these rates.

Revised Date: 2nd half 2019

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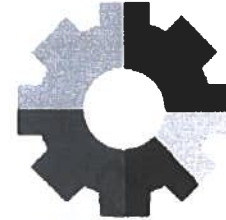
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Rental Rate Blue Book®

August 25, 2020

Miscellaneous 4X2 25KG VW DSL

On-Highway Flatbed Trucks

 Size Class:
19,501 - 26,000 GVW
 Weight:
9204 lbs

Configuration for 4X2 25KG VW DSL

Axle Configuration	4X2	Horsepower	200.0
Maximum Gross Vehicle Weight	25000.0 lbs	Power Mode	Diesel

Blue Book Rates

** FHWA Rate is equal to the monthly ownership cost divided by 176 plus the hourly estimated operating cost.

	Ownership Costs				Estimated Operating Costs	FHWA Rate**
	Monthly	Weekly	Daily	Hourly	Hourly	Hourly
Published Rates	USD \$1,575.00	USD \$440.00	USD \$110.00	USD \$17.00	USD \$15.69	USD \$24.64
Adjustments						
Region (Louisiana: 95.9%)	(USD \$64.57)	(USD \$18.04)	(USD \$4.51)	(USD \$0.70)		
Model Year (2020: 100%)	-	-	-	-		
Adjusted Hourly Ownership Cost (100%)	-	-	-	-		
Hourly Operating Cost (100%)					-	
Total:	USD \$1,510.43	USD \$421.96	USD \$105.49	USD \$16.30	USD \$15.69	USD \$24.27

Non-Active Use Rates

Hourly

Standby Rate	USD \$3.00
Idling Rate	USD \$17.99

Rate Element Allocation

Element	Percentage	Value
Depreciation (ownership)	27%	USD \$425.25/mo
Overhaul (ownership)	65%	USD \$1,023.75/mo
CFC (ownership)	3%	USD \$47.25/mo
Indirect (ownership)	5%	USD \$78.75/mo
Fuel (operating) @ USD 2.40	60%	USD \$9.41/hr

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JMF SUPERPAVE FORM

Project No.	210067	Mix Code	26	JMF No.	485	SMM ID	0
Project Name	SCP - Asphalt St Maintenance	Design Level	SMA	Plant Type	3-dryer drum		
Project Eng.	Lee Zeringue	Mix Type	Wearing Course	Nom Agg Size	0.5 in.		
Submitted	Barriere Construction	Mix Use	ML - Wearing	Specs	2016		
Contractor Mix #	PB 482	SMM P/S	PS00000580-Barriere Construction Company, LLC - Bouffe				

Traffic (ADT)	N/A
Prod. Rate	300
Mix Temp	325
Date	8/25/2002
AC Corr Factor	0.30

Source Code	Aggregate Type	%	Apparent Gravity	Bulk Gravity	Abs.	FAA Method A	Sand Eq. - 4.75 mm	Flat & Elong %5:1	CAA	FR	%Ret No.8	%Ret No.4	
APS00006890	1003M00110-1/4 X 0 Limestone	17.5	2.741	2.668	1.00	47				III	13	5	Fine
APS00008880	1003M00120-# 78 Sandstone	23.8	2.668	2.585	1.20			0.6	100	I	91	76	Coarse
APS00006890	1003M00120-# 7 Limestone	6.6	2.726	2.668	0.80			1.3	100	III	98	94	Coarse
APS00008890	1003M00120-# 78 Limestone	33.1	2.713	2.662	0.70			0.3	100	III	97	89	Coarse
APS00008880	1003M00120-# 67M Sandstone	19.0	2.662	2.580	1.20			3.1	100	I	93	81	Coarse
Combined Aggregates Properties		100.0	2.698	2.629	0.97	47		1.1	100.0				

	Code/Grade	Material	%	Sp. Gravity
Asphalt	APS00000510	1002M00050-PG76-22M - Valero	6.0	6.0
Alt. Asphalt	APS00000400	1002M00050-PG76-22m - Marathon		
Alt. Asphalt				
Asphalt Content from RAP			0.0	1.0
Anti-strip	APS00003920	1002M00220-Ad-Here LA2	0.6	

Warm Mix Asphalt	
Warm Mix	No
Method	
Rate	
If Chemical	
Brand Name	

Flag Checklist

Friction >50 or I/II>75

Draindown Control	
Fibers	Cellulose Fiber
Rate	0.20%
If Chemical	1002M00230-HI Tech
Brand Name	Solutions

	Rap 1	Rap 2
Type		
Percent		
Residual%		
Agg %		
Rap AC%		

Design Submitted by Contractor

Average Volumetrics		Sieve		Cold Feed		Avg Oven Extract		Validated Results	
Item	Value	1.5"	37.5	% Passing	% Passing	% Passing	Tolerance	% Passing	Tolerance
Gmm	2.412			100	100				
%Gmm,Nini	86.6			100	100				
%Gmm,Nmax				100	100				
Gmb@Des,cor	2.328	1.5"	37.5	100	100				
VMA	16.8	1"	25	100	100				
VFA	79	3/4"	19	100	100				
%Voids	3.5	1/2"	12.5	90	91				
%DesignAC	6.0	3/8"	9.5	73	73				
Gsb agg	2.629	#4	4.75	30	32				
Comp Temp	300	#8	2.36	20	21				
%Crushed	100	#16	1.18	16	18				
dust/Peff	1.37	#30	0.6	13	15				
Gse	2.638	#50	0.3	11	12				
Pabsorb	0.13	#100	0.15	8	10				
Pbe	5.9	#200	0.075	7.1	8.1				
SCB	1.0	% Extracted AC			6.0				

AASHTO T324

Average Rut (mm)	4.43
Results (Pass/Fail)	PASS

AASHTO T283 as modified by PP28

Control PSI	
Design TSR%	

Gyr. Rev	
Nini	65
Ndes	65
Nmax	65

Proposal approved by: _____ Date: _____

Validation approved by: _____ Date: _____

Submitted for contractor by: Matt B... Date: 8/25/2021


Remarks: 0

Louisiana Department of Transportation and Development
JMF SUPERPAVE ASPHALTIC CONCRETE MIXTURES

Project No.	Metric/English	E	Plant Code	PS00000560-Barriere Construction Company, LLC - Boutte		SMM ID	0		
Specs	2016	Plant Type	3-dryer drum	Mix Type	Wearing Course	Mix Use	ML - Wearing	Des. Level	SMA
ESAL	N/A	Prod. Rate	300	Mix Temp	325			Seq No	485
Adj. Factor	1.00	ADT/lane	N/A	Nom. Agg. Size	0.5 in.	AC Corr Factor	0.30	Project Engr	Lee Zeringue
Project Name	SCP - Asphalt St Maintenance		Project Cont.	Barriere Construction		Mix Use	ML - Wearing		
			Mix Type	Wearing Course					

Material	Source Code	Aggr. Type	Aggr. %	Bulk Sp Gr, Gsb	Abs.	FAA	Sand Eq	Flat & Elong	CAA	Fr. Rate	%Ret #8
Cr. Aggr	APS00006880	1003M00120-# 78 Sandstone	23.8	2.685	1.2			0.6	100	I	91
Cr. Aggr	APS00006890	1003M00120-# 7 Limestone	6.6	2.668	0.8			1.3	100	III	98
Cr. Aggr	APS00006890	1003M00120-# 78 Limestone	33.1	2.662	0.7			0.3	100	III	97
Cr. Aggr	APS00006880	1003M00120-# 67M Sandstone	19.0	2.580	1.2			3.1	100	I	93
Fine Aggr	APS00006890	1003M00110-1/4 X 0 Limestone	17.5	2.668	1	47				III	13
Composite			GSB	2.629	0.97	47		1.1	100		

Asphalt Cement and Additives					Loaded Wheel Test		
Material	Source Code	Material Name	% of Mix		Design:	No. Passes	
Asphalt Cement	APS00000510	1002M00050-PG76-22M - Valero	6.0			20000	
Alternate Asphalt	APS00000400	1002M00050-PG76-22m - Marathon				Rut	4.43
Alternate Asphalt					Validation:	No. Passes	0
Rap Asphalt			0.0			Rut	
Anti Strip	APS00003920	1002M00220-Ad-Here LA2	0.6		SCB Jc:	0.97	
DESIGN DATA		VALIDATION DATA			JMF Limits (per valid avg)		
Parameter	Submittal	Average	Std. Dev	PWL			
Gmm	2.412			--	--	--	90
%Gmm,Nini	86.6			--	--	--	98
%Gmm,Nmax				--	16.0	--	0
VMA	16.8			--	69	--	4.5
VFA	79			--	2.5	--	
% Voids	3.5			--			
% Design AC	6.0						
Comp Temp	300	300	#DIV/0!	#DIV/0!	275	--	325
% DF Crushed	100				98	--	
1 1/2 (37.5mm)	100				--	--	
1 in (25mm)	100				--	--	
3/4 (19mm)	100				--	--	
1/2in (12.5mm)	91				--	--	
3/8in (9.5mm)	73				--	--	
No. 4 (4.75mm)	32				--	--	
No. 8(2.38mm)	21				--	--	
No.16(1.18mm)	18				--	--	
No.30(600um)	15				--	--	
No.50(300um)	12				--	--	
No.100(150um)	10				--	--	
No. 200(75um)	8.1				--	--	
% AC Extracted	6.0				--	--	
Dust/Pbeff	1.37				0.6	--	1.6
Gse	2.638						
Pba	0.13						> 0.0
Pbe	5.9						

Submitted for Contractor By:		
Date Submitted	08/25/02	
 Technician		
Proposal Approved	Y=Yes	
	N=No	
By:		
Date:		
Signature		
Validation Approved	Y=Yes	
	N=No	
By:		
Date:		
Number of Validation Attempts		(y/n)
LWT = PASS		
Each PWL Parameter ≥ 71		
Avg. within JMF spec. limits		
Approved By		
Date First Used		

Remarks: _____

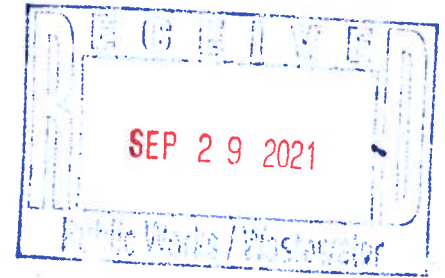


ST. CHARLES PARISH

PUBLIC WORKS

MATTHEW JEWELL
PARISH PRESIDENT

MILES BINGHAM, P.E.
DIRECTOR



August 26, 2021

Christian Valetton, Project Manager/Estimator
Barriere Construction Co., L.L.C.
P.O. Box 1576
1268 LA 3127
Boutte, LA 70039-1576

**SUBJECT: Asphalt Pavement Maintenance
Work Change Directive No. 2
St. Charles Parish Project No. P210302**

Dear Ms. Valetton:

Please find enclosed a partially executed original Work Change Directive for the referenced project. Please sign it and forward it back to us for further processing.

Sincerely,

Ruby E. Dennis
Administrative Assistant

RED

Enclosure