

COUNTY COUNCIL OF BEAUFORT COUNTY  
ADMINISTRATION BUILDING  
BEAUFORT COUNTY GOVERNMENT ROBERT SMALLS COMPLEX  
100 RIBAUT ROAD  
POST OFFICE DRAWER 1228  
BEAUFORT, SOUTH CAROLINA 29901-1228  
TELEPHONE: (843) 255-2180  
www.bcgov.net

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CONNIE L. SCHROYER  
CLERK TO COUNCIL

**AGENDA  
PUBLIC FACILITIES COMMITTEE**

Monday, November 26, 2018

3:30 p.m.

Executive Conference Room, Administration Building  
Beaufort County Government Robert Smalls Complex  
100 Ribaut Road, Beaufort

Committee Members:

Stu Rodman, Chairman  
York Glover, Vice Chairman  
Rick Caporale  
Michael Covert  
Alice Howard  
Jerry Stewart  
Roberts "Tabor" Vaux

Staff Support:

Patrick Hill, Director  
IT Systems Management  
Colin Kinton, Division Director  
Transportation Engineering  
Eric Larson, Division Director  
Environmental Engineering  
Robert McFee, Division Director  
Facilities and Construction Engineering

1. CALL TO ORDER – 3:30 p.m.
2. CONSIDERATION OF CONTRACT AWARDS
  - A. Blanchard Machinery, Hardeeville, South Carolina / State Contract Purchase / one New Holland slope mower with a diamond mower extended reach for the Public Works Department, Stormwater Infrastructure Section / \$ 114,646 (backup)
  - B. Preferred Materials / Year Two County CTC Resurfacing Project / \$3,405,840 (backup)
3. PRESENTATION / U.S. HIGHWAY 278 SIGNAL RETIMING (backup)
4. PROJECT UPDATES
  - A. Pathway Design Groupings (backup)
  - B. U.S. Highway 21
  - C. U.S. Highway 278
5. DISCUSSION / A RESOLUTION THAT THE U.S. HIGHWAY 278 BRIDGES TO HILTON HEAD ISLAND IMPROVEMENT PROJECT IS ESSENTIAL TO THE ECONOMIC DEVELOPMENT IN THE AREA, IS CONSISTENT WITH APPLICABLE LOCAL LAND USE PLANS, AND IS ON ALL PRIORITY LISTS MAINTAINED BY BEAUFORT COUNTY (backup)
6. DISCUSSION / VEGETATIVE MAINTENANCE / SUPPLEMENTAL FUNDING FOR ADDITIONAL CYCLES (backup)



7. CONSIDERATION OF REAPPOINTMENTS AND APPOINTMENTS
  - A. Beaufort County Transportation Committee / One Vacancy (Council District 5)
  - B. Keep Beaufort County Beautiful Board / Two Vacancies (Council Districts 7 and 8)
  - C. Seabrook Point Special Purpose Tax District / One Vacancy (Council District 1)
  
8. ADJOURNMENT

2018 Strategic Plan Committee Assignments  
U.S. Highway 278 Gateway Project  
Litter Control / Reduction Action Plan



COUNTY COUNCIL OF BEAUFORT COUNTY  
**PURCHASING DEPARTMENT**

106 Industrial Village Road, Bldg 2, Post Office Drawer 1228  
Beaufort, South Carolina 29901-1228

TO: Councilman Stu Rodman, Chairman, Public Facilities Committee

FROM: Dave Thomas, CPPO, Purchasing Director

SUBJ: Request to Purchase One New Holland Slope Mower with a Diamond Mower Extended reach from the SC State Contract from Blanchard Machinery Co. Contract for the Public Works Department, Stormwater Infrastructure Section.

DATE: November 16, 2018

**BACKGROUND:** The Purchasing Department received a request from the Public Works' Fleet Manager to purchase one Side Arm Slope Mower to provide a replacement for a mower that has exceeded its life of operations and starting to cost in repair more than the value of the machine. The purchase is from a South Carolina State contract vendor and is offered a fair and reasonable price. The price includes a 24 Months /2000 Hours on the Mower, 12 Months on the Diamond sidearm, and 12 Months/72 Hours warranty.

Total cost of the Mower will be \$114,646 that's includes tax, equipment, software, delivery, installation, all discounts, SC sales tax, and manuals (see the attached price quote).

**SC STATE CONTRACT VENDOR INFORMATION:**

**COST**

Blanchard Cat, 50500 North Whyte Hardee Blvd. Hardeeville S.C. 29927      \$114,646

**FUNDING:** 50250011-54200, Specialized Equipment, Balance \$259,913 \_\_\_\_\_

**FOR ACTION:** Public Facilities Committee meeting on November 26, 2018.

**RECOMMENDATION:** The Purchasing Department recommends that the Public Facilities Committee approve and recommend to County Council the contract award of \$114,646.00 to purchase the New Holland Sidearm Mowing Equipment, and warranty as outlined above in support of the Stormwater Infrastructure Section's continued effort to maintain and/or improve the County's drainage infrastructure.

Attachment: Contract Pricing Information

cc:

John Weaver, Interim County Administrator

Alicia Holland, Assistant County Administrator, Finance

Eric W. Larson, PE, Director, Environmental Engineering & Land Management

David Wilhelm, PE, Director Public Works



BEAUFORT COUNTY GOVERNMENT-  
PUBLIC WORKS & MAINTENANC  
84 SHANKLIN RD  
BEAUFORT, SC 29901

November 13, 20188

Attention: CHAD STANLEY

Dear Chad,

We would like to thank you for your interest in our company and our products, and are pleased to quote the following for your consideration.

**One (1) New Holland Model: TS 6.110 4wd Cab Tractors with all standard equipment in addition to the additional specifications listed below:**

**MACHINE SPECIFICATIONS**

**Description**

**New Holland TS 6.110 Tractor** - 4wd, Cab, HVAC, 4cyl turbo charged and intercooled diesel engine 100 hp/ 90 PTO hp, 8F x 8R powershuttle (hydraulic) transmission, cat II 3 point lift, 2 rear remote hydraulic valves, amber rotating lights, back up alarm.  
Warranty: 24 Months/2000 Hours

SC State Contract 4400011100 Price - \$58,147.00 each

**Diamond DBM-A-P 21' Rear Cradle Boom Mower** – 60" rotary head, tri hex blade carrier with blades, joystick controls, transport lock, hydraulic swing actuator, hydraulic cooling package  
Warranty: 12 Months

SC State Contract 4400011018 Price - \$46,641.00 each

**Woods DSW 10.50 Pull Type Mower** – pivoting clevis hitch, cat 6 CV input drive shaft, 540 RPM, 21" laminated rear wheels, hydraulic cylinder and hoses  
Warranty: 12 Months/72 Months Gear Box Limited

SC State Contract 4400018368 Price \$9,358.00 each

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TOTAL SELL PRICE	\$114,146.00
SC SALES TAX	\$500.00
AFTER TAX BALANCE	<b>\$114,646.00</b>

**\*Includes freight and prep**

We wish to thank you for the opportunity of quoting on your equipment needs. This quotation is valid for 30 days, after which time we reserve the right to re-quote. If there are any questions, please do not hesitate to contact me.

Sincerely,

Wiley Murph  
Machine Sales Representative

Accepted by \_\_\_\_\_ on \_\_\_\_\_

\_\_\_\_\_  
Signature

# TS6 SERIES

TS6.110 | TS6.120 | TS6.130 | TS6.140

TS6.120 High-Clearance



# Power that's efficient, comfortable and affordable.

TS6 Series tractors are the standard of all-purpose tractors, yet these tractors are anything but basic. They're big on power and efficiency, loaded with comfort, and ready to handle your toughest tasks. In short, they're your best choice if you're looking for a strong, modern and affordable all-purpose tractor.

### Flat-deck platform or Visionview™ cab, 2WD or 4WD

Four TS6 models range from 90 to 115 PTO horsepower and fit a wide range of farming practices. Choose a model with two- or four-wheel drive, with an open ROPS platform or New Holland's sleek VisionView™ cab that features excellent visibility, ergonomics and operator comfort.



Tier 4B TS6 Models	Engine	Rated Engine HP	Rated PTO HP	Standard 2WD	Heavy-duty 2WD	Standard 4WD	Heavy-duty 4WD
TS6.110	4.5L, 4-cyl	110	90	●	○	●	-
TS6.120	4.5L, 4-cyl	119	96	●	○	●	-
TS6.130	4.5L, 4-cyl	130	105	-	○	-	●
TS6.140	4.5L, 4-cyl	139	115	-	○	-	●
TS6.120 High-Clearance	4.5L, 4-cyl	119	96	-	-	●	-

● Standard ○ Optional - Not Available



Choose from two customer preferred packages then customize with options to fit your operation.

	TS6 Value Package	TS6 Plus Package
Transmission with Power Shuttle	8 x 8	16 x 8
Transport Speed	19 mph (30 kph)	25 mph (40 kph)
Implement Hydraulics	13 gpm	22 gpm
3-Point Lift Capacity	3735 lbs.	5499 lbs. with external control
Cab Features	Mechanical suspension seat	Air suspension seat* with swivel, plus instructor seat, rear wiper/washer, radio, overhead high-visibility panel
Loader Ready	Optional	Optional

\* Cab versions only



### Proven transmission choices

- 8x8 mechanical shuttle (19 mph/30 kph)
- 8x8 power shuttle (19 mph/30 kph)
- 8x8 power shuttle (25 mph/40 kph)
- 16x8 power shuttle with Hi-Lo (25 mph/40 kph)
- 10:1 creeper available (19 mph/30 kph)

TS6 Series tractors offer a selection of reliable transmissions, including a choice of a 19-mph or 25-mph road speed (4WD only) and choice of mechanical or power (forward/reverse) shuttle. The easy-to-use, left-hand power shuttle provides fast, smooth direction changes and is ideal for loader work. For slow speed applications, an optional 10:1 creeper is available on all transmissions to provide speeds as slow as 0.16 mph (0.264 kph).

### Axles that are right for the job

Tailor your TS6 front and rear axles to match your specific needs. If you need a simple powerhouse, then the 2WD front axle is the right choice for you. If you need more traction or pulling ability, consider upgrading to the 4WD front axle. The larger TS6.130 and TS6.140 models come standard with heavy-duty 2WD or 4WD axles designed to handle the additional weight and stress of higher horsepower applications. The TS6.110 and the TS6.120 are equipped with standard-duty and optional heavy-duty front axles, depending on your needs. For rear axle, select the standard heavy-duty flange axle or for row spacing flexibility, choose the 98-inch bar axle.

## More comfort. Better visibility.



Operating ease and superior visibility are part of the TS6 tractor design. Whether you choose a TS6 tractor with an open, flat-deck platform or the exclusive New Holland VisionView™ cab, you will experience industry-leading comfort and control. Both cab and non-cab models feature 360-degree visibility and the Command Arc console with convenient, natural placement of controls that require minimum effort. Both cab and open station versions have the Command Arc operator control console for easy use of all controls within the "sweep" of the operator's arm.

### Uncluttered flat-deck platform

If you choose a TS6 tractor without a cab, you'll find the spacious, open operator platform with ROPS is a great place to work. The true flat deck gives you plenty of foot and legroom since there's no driveline hump and all pedals are suspended. The seat and tilt steering wheel adjust for your comfort, and the dash-mounted instrument cluster gives you a clear view of operating information.





### Best-in-class Visionview™ cab

The VisionView™ cab features two wide clear doors, a large window in back and an expansive windshield with a sleek, curved roofline that gives you excellent visibility that is especially good for loader work. An optional high-visibility roof panel expands your view even higher so you get an effortless view to a raised loader bucket. The panel also opens for added ventilation. A retractable sunscreen for the upper windshield and roof window cuts glare.



#### The perfect seat

A comfortable mechanical suspension seat is standard with the Value package, while a deluxe air suspension seat with swivel and full-size, cushioned instructor seat is included in the Plus package and is optional on Value models.

#### 10 vents for all-temperature comfort

Dual-fan cooling and heating includes 10 vents to keep you comfortable no matter what the weather.

#### Improved lighting

The VisionView cab features eight work lights—four in front and four in back—for working at night or in low light. Non-cab models feature a rear work light mounted on the ROPS for continued work after dark.

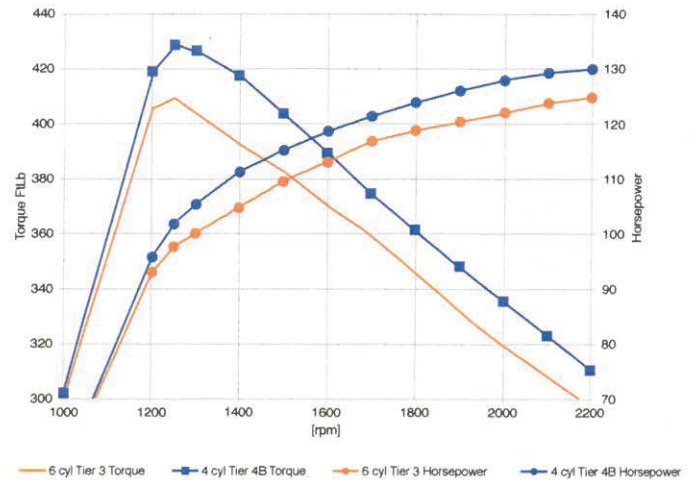
# A huge leap in performance and efficiency.



TS6 Series engines are Tier 4B/final emissions certified, and deliver power and performance without compromise. The high-pressure common-rail fuel-injection system provides precise fuel metering which reduces engine noise, has better fuel combustion, higher horsepower per cylinder, lower emissions and enhanced fuel economy.

## More power and torque than previous TS6 models

TS6 four-cylinder engines use the latest New Holland engine technology to maximize the power delivered per cylinder, resulting in performance that's significantly better than the Tier 3 engine used on previous TS6 models. With four valves per cylinder, and the electronically controlled high-pressure common-rail fuel system, these engines generate more torque, more quickly and hold it longer for better lugging ability. You get better throttle response and a noticeable increase in loaded engine performance in difficult crop or soil conditions.





### Total flow up to 29 gpm

TS6 Series tractors have the hydraulic flow to handle demanding implements. Both Value and Plus models feature a 13-gallon-per-minute (gpm) implement pump and a dedicated 7-gpm steering pump. A 9-gpm auxiliary pump is standard on all models for a total flow of 29.



### Up to 7,326 pounds of lift

You can handle heavy three-point-mounted implements with ease. The standard 3,735-pound lift capacity is a great match for most implements. Increase it to 5,499 pounds by adding one optional auxiliary lift cylinder, or add two lift cylinders to increase to 7,326-pound lift capacity. No matter how heavy the implement, the standard telescoping stabilizers and flexible link ends provide easy hook up to any 3-point hitch tool. An external ground control of the three-point hitch is included with the Plus package.

## ECOBBlue™ HI-eSCR

### ECOBBlue™ HI-eSCR technology—one simple solution

New Holland's ECOBlue HI-eSCR after-treatment system is a simple solution that not only reduces emissions, but also improves fuel efficiency so you complete more work with less fuel.

### Complete access for easy cleaning and maintenance

The TS6 hood flips open without tools, providing unrestricted access for servicing. A longer 600-hour service interval means you stop less often for service. You stop less frequently for fill-ups too due to larger tanks – 57.5 gallons for fuel and 7.9 gallons for Diesel Exhaust Fluid (DEF).



## The right loader package for you.

Outfit your TS6 tractor with the loader that is right for you. Select the simple 810LA non self-leveling loader for TS6 tractors with a 2WD front axle. Choose between the higher-capacity 830LA non self-leveling or 835LA mechanical self-leveling loaders for 4WD TS6 configurations.

The 830LA and 835LA loaders are designed for heavy-duty, high-use applications, with impressive breakout forces and dump clearances, and with lift capacities up to 3,813 pounds [835LA mechanical self-leveling] – more than enough to repeatedly lift round bales or heavy bucketloads.

The 810LA loader is ideal for the 2WD axle models with the ability to handle lighter duties around the farm, delivering up to 2,094 pounds of lift capacity to handle normal 2WD tractor chores.

No matter which loader you choose, you get easy, no-tools loader mounting and dismounting. A convenient multi coupler allows for quick hose and electrical hookup. You get your choice of SSL or Euro attachment couplers, as well as a choice of attachments including buckets, bale spears, pallet forks, grapple buckets and more. Hydraulic implement lock, a third function diverter valve and soft ride loader suspension options are also available.

### Complete loader ready option

Order your TS6 tractor with the complete loader ready option and all the components required for simple loader hookup are installed at the factory. The loader ready option includes the loader joystick, two-function mid-mount valve, hydraulic plumbing to the loader mounts and grill guard.



Loader Model		810LA	830LA	835LA
TS6 Front Axle		2WD	4WD	4WD
NSL - Non Self-leveling		NSL	NSL	MSL
MSL - Mechanical Self-leveling				
Maximum lift height to pivot pin	in. (mm)	144.0 (3658)	150.0 (3810)	150.0 (3810)
Clearance with bucket dumped	in. (mm)	105.6 (2682)	112.8 (2865)	112.8 (2865)
Reach at maximum lift height	in. (mm)	30.7 (780)	33.8 (859)	33.8 (859)
Maximum dump angle	degrees	62	62	62
Reach with bucket on ground	in. (mm)	88.1 (2238)	94.4 (2398)	94.4 (2398)
Maximum rollback angle	degrees	42	45	45
Digging depth	in. (mm)	1.9 (48)	5.1 (130)	5.1 (130)
Lift capacity to maximum height 31.5" forward of the pivot pin	lbs. (kg)	2094 (950)	2557 (1160)	3813 (1730)
Breakout force 31.5" forward of the pivot pin	lbs. (kg)	3020 (1370)	3681 (1670)	3968 (1800)

**NOTE:** The loader specifications provided are general specifications and may vary based on tractor model, hydraulic system, tire size, etc.

MODEL		TS6.110	TS6.120	TS6.130	TS6.140
<b>Power</b>					
Engine type		4 cylinder, 16 valve, high pressure common rail, air-to-air intercooled turbo diesel			
Engine make / model		Fiat Powertrain Industrial / FPT NEF			
Engine displacement	cu. in. (L)	274 (4.5)	274 (4.5)	274 (4.5)	274 (4.5)
Rated engine horsepower @ 2200 RPM		110	119	130	139
Rated PTO horsepower		90	96	105	115
Emissions certification		Tier 4B/Final	Tier 4B/Final	Tier 4B/Final	Tier 4B/Final
Fuel Tank capacity	gal. (L)	57.5 (217.6)	57.5 (217.6)	57.5 (217.6)	57.5 (217.6)
DEF (AdBlue®) Tank capacity	gal. (L)	7.9 (30)	7.9 (30)	7.9 (30)	7.9 (30)
<b>Electrical System</b>					
Alternator	amps	120	120	120	120
Battery		12 volt w/950 CCA	12 volt w/950 CCA	12 volt w/950 CCA	12 volt w/950 CCA
<b>Transmission</b>					
Base transmission		8x8 synchronized hydraulic shuttle with left hand shuttle			
Optional transmission		8x8 synchronized mechanical shuttle with left hand shuttle			
Premium transmission		16x8 dual power synchronized hydraulic shuttle with left hand shuttle			
Creeper option		10:1 gear ratio	10:1 gear ratio	10:1 gear ratio	10:1 gear ratio
<b>Rear PTO &amp; 3-Point Hitch</b>					
PTO rpm		540/1000	540/1000	540/1000	540/1000
3-point hitch		Category II w/flex link ends			
Base, 3-point hitch ASAE lift capacity	lbs. (kg)	3735 (1693)	3735 (1693)	3735 (1693)	3735 (1693)
Option 3, 3-pt. ASAE lift capacity	lbs. (kg)	5499 (2499)	5499 (2499)	5499 (2499)	5499 (2499)
Option 2, 3-pt. ASAE lift capacity	lbs. (kg)	7326 (3323)	7326 (3323)	7326 (3323)	7326 (3323)
<b>Hydraulic System</b>					
System type		Fixed displacement pumps (steering, implement, aux) with combining/diverter valve			
Hydraulic implement pump flow*	gpm (lpm)	13 (49)	13 (49)	13 (49)	13 (49)
Auxiliary hydraulic pump flow*	gpm (lpm)	9 (34)	9 (34)	9 (34)	9 (34)
Rear hydraulic remote valves*		Deluxe closed center with flow control and quick connect couplers			
<b>Axles</b>					
Front 4WD adjustable tread width	in. (mm)	61.4 (1,560) to 88.8 (2256)			
Front std. 2WD adjustable tread width	in. (mm)	56 (1432) to 80 (2028)	56 (1432) to 80 (2028)	56 (1432) to 80 (2028)	56 (1432) to 80 (2028)
Front HD 2WD adjustable tread width	in. (mm)	60 (1524) to 84 (2134)	60 (1524) to 84 (2134)	60 (1524) to 84 (2134)	60 (1524) to 84 (2134)
Rear flange axle adjustable tread width	in. (mm)	64 (1620) to 80 (2028)	64 (1620) to 80 (2028)	64 (1620) to 80 (2028)	64 (1620) to 80 (2028)
Rear bar axle adjustable tread width	in. (mm)	60 (1524) to 80 (2028)	60 (1524) to 80 (2028)	60 (1524) to 80 (2028)	60 (1524) to 80 (2028)
<b>Weight**</b>					
Weight (shipping, 4WD, cab, flange axle)	lbs. (kg)	11,200 (5080)	11,200 (5080)	11,200 (5080)	11,200 (5080)
Weight (shipping, 4WD, cab, bar axle)	lbs. (kg)	12,192 (5530)	12,192 (5530)	12,192 (5530)	12,192 (5530)
Weight (shipping, 2WD, cab)	lbs. (kg)	9921 (4500)	9921 (4500)	9921 (4500)	9921 (4500)
Weight (shipping, 4WD, ROPS, flange axle)	lbs. (kg)	10,362 (4700)	10,362 (4700)	10,362 (4700)	10,362 (4700)
Weight (shipping, 4WD, ROPS, bar axle)	lbs. (kg)	11,002 (4990)	11,002 (4990)	11,002 (4990)	11,002 (4990)
Max. tractor weight (G.V.W.), Cab, 4WD	lbs. (kg)	17,196 (7800)	17,196 (7800)	17,196 (7800)	17,196 (7800)
<b>Dimensions**</b>					
Wheel base 4WD (Standard Duty Class 3)	in. (mm)	99.2 (2520)	99.2 (2520)	-	-
Wheel base 4WD (Heavy Duty Class 3)	in. (mm)	-	-	103.9 (2640)	103.9 (2640)
Wheel base 2WD Standard Duty (6 bolt hub)	in. (mm)	100.4 (2550)	100.4 (2550)	-	-
Wheel base 2WD Heavy Duty (8 bolt hub)	in. (mm)	95.8 (2432)	95.8 (2432)	95.8 (2432)	95.8 (2432)
Overall length 4WD with front weights	in. (mm)	184.7 (4690)	184.7 (4690)	184.7 (4690)	184.7 (4690)
Overall length 2WD with front weights	in. (mm)	184.5 (4687)	184.5 (4687)	184.5 (4687)	184.5 (4687)
Height to top of cab	in. (mm)	110.2 (2800)	110.2 (2800)	110.2 (2800)	110.2 (2800)
Height to top of ROPS	in. (mm)	117.3 (2980)	117.3 (2980)	117.3 (2980)	117.3 (2980)
Height to top of exhaust	in. (mm)	109.8 (2790)	109.8 (2790)	109.8 (2790)	109.8 (2790)
<b>Available Offering Configurations</b>					
2WD, 4WD, Cab or ROPS, in Value and Plus packages, High-Clearance (TS6.120 only)					

- Not Available \*Oil flow at the remote couplers will be 10% to 15% less than pump flow \*\*Dimensions shown are with 18.4-38 R1 rear tires and 14.9-28 R1 4WD front tires or 10.00-16 2WD front tires

# Clearance when it matters.

New Holland designed the TS6.120 High-Clearance tractor with vegetable and specialty crop farmers in mind.

## Stand tall

New Holland understands that clearance is critically important to the success of some farming operations. With a maximum axle clearance of 28 inches, the TS6.120 High-Clearance tractor nimbly maneuvers down rows of specialty crops with ease. In order to match the needs of different farming practices and row spacing, the front axle adjusts from 72 to 84 inches.

## Comfort on high

If maximum comfort is on your mind, choose the VisionView™ deluxe all-weather cab and control your own climate. However, if you enjoy being outdoors, choose the spacious flat-deck open station/ROPS platform. Both cab and open station versions have the CommandArc™ operator control console for easy use of all controls within the "sweep" of the operator's arm.

## Creeper speeds when needed

The TS6.120 is available with a choice of two reliable transmissions that include the additional creeper gears to provide the ultra-slow speeds needed for precise movement through the rows during cultivating and harvest.

## The traction you want

Standard electro-hydraulically activated front-wheel drive (FWD) allows you to engage FWD on-the-go for extra traction and reduced wheel slip.



**MODEL****TS6.120 High-Clearance**

<b>Power</b>		
Engine type		4 cylinder, 16 valve, high pressure common rail, air-to-air intercooled turbo diesel
Engine make / model		Fiat Powertrain Industrial / FPT NEF
Engine displacement	cu. in. (L)	274 (4.5)
Rated engine horsepower @ 2200 RPM		119
Rated PTO horsepower		96
Emissions certification		Tier 4B/Final
Fuel Tank capacity	gal. (l)	57.5 (217.6)
DEF (AdBlue®) Tank capacity	gal. (l)	7.9 (30)
Electrical system		
Alternator		120 amps
Battery		12 volt with 950 CCA
<b>Transmission</b>		
Base transmission		8x8 synchronized with left hand controlled mechanical shuttle
Optional transmission		8x8 synchronized with left hand controlled hydraulic shuttle
Creeper option		10:1 gear ratio
<b>PTO and 3-point hitch</b>		
PTO rpm		540/1000
3-Point hitch		Category II w/flex link ends
Base 3-point hitch ASAE lift capacity	lbs. (kg)	3,735 (1693)
Option 3-pt. ASAE lift capacity	lbs. (kg)	5,499 (2499)
Option 2 3-pt. ASAE lift capacity	lbs. (kg)	7,326 (3323)
<b>Hydraulic system</b>		
System type		Fixed displacement pumps (steering, implement, aux) with combining/diverter valve
Hydraulic implement pump flow*	gpm (lpm)	13 (49)
Auxiliary hydraulic pump*	gpm (lpm)	9 (34)
Rear hydraulic remote valves*		Deluxe closed center with flow control and quick connect couplers
<b>Axles</b>		
Rear axle type		External drop box final drive with internal wet brakes
Front 4WD adjustable tread width	in. (mm)	72 (1829) to 84 (2134)
Rear 4WD adjustable tread width	in. (mm)	72 (1829) to 100 (2540)
Ground clearance** (lowest part of front axle)	in. (mm)	25.25 (616)
<b>Weight</b>		
Weight (shipping, 4WD, cab, flange axle)	lbs. (kg)	11,883 (5390)
Weight (shipping, 4WD, ROPS, flange axle)	lbs. (kg)	10,957 (4970)
Max. tractor weight (G.V.W.), Cab, 4WD	lbs. (kg)	17,196 (7800)

<b>Dimensions**</b>		
Wheel base	in. (mm)	107.5 (2730)
Overall length 4WD w/ front weights	in. (mm)	192.9 (4900)
Height to top of cab	in. (mm)	121.9 (3095)
Height to top of ROPS	in. (mm)	128.9 (3275)
Height to top of exhaust	in. (mm)	121.4 (3085)

\*Oil flow at the remote couplers will be 10% to 15% less than pump flow

\*\*Dimensions are with 13.6-38 R2 front and rear tires





# VALUE, SERVICE AND SOLUTIONS

There's a certain way of thinking that comes from living on a farm. Farming takes equal parts brain and brawn. Not to mention thick skin, calloused hands and a fair share of know how. Seasoned farmers know it helps to have equipment that's built by farmers, sold by farmers and used by farmers.

**Support at every step.** When you place your confidence in New Holland agricultural equipment, you get the finest in local support. Your New Holland dealer understands the many challenges you face and stands behind you at every step with the equipment, parts, service and financial solutions to make your job easier. Look to New Holland for a complete selection of equipment, including a full line of tractors, hay & forage equipment, harvesting, crop production and material handling equipment.

**Quality parts and service.** Turn to your New Holland dealer after the sale for expert, factory-trained service and genuine New Holland-branded parts. Your dealer has the very latest service updates and training to ensure your equipment keeps working productively season after season.

**Financing solutions.** Your New Holland dealer can tell you about smart ways to turn your financial challenges into opportunities with a portfolio of innovative financial services available through CNH Industrial Capital, including customized financing, leasing, insurance and the purchasing convenience of a Commercial Revolving Account.

For reliable equipment, parts and service — or just honest advice on farming and finance — turn to New Holland and your trusted New Holland dealer. We know. We're farmers, too.



We are proud to support the FFA.

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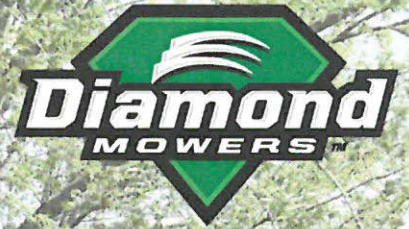


Safety begins with a thorough understanding of the equipment. Always make sure you and your operators read the Operator's Manual before using the equipment. Pay close attention to all safety and operating decals and never operate machinery without all shields, protective devices and structures in place.

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**BOOM MOWERS**



**EXTEND, EXPAND,  
EXCEED YOUR REACH.**



# **REACH** FOR A **DIAMOND.**

*At Diamond Mowers, we believe that no task should be beyond your grasp. Our Boom Mowers are available in a variety of lengths and cutting heads, so whether you're dealing with ditches, guardrails, fences, or a tricky slope, we've got you covered.*

*For decades, Diamond has manufactured the toughest, smartest, most reliable and safest equipment in the industry. And we back it up with unmatched customer support, a 72-hour parts guarantee, and a 30-day satisfaction guarantee.*

**DEMAND THE BEST. DEMAND DIAMOND.**



### SIDE-FOLD BOOMS

Available in 19-ft, 21-ft and 23-ft lengths



### REAR CRADLE BOOMS

Available in 21-ft, 22-ft, 23-ft, 25-ft, 28-ft and 30-ft



## CUTTING HEADS



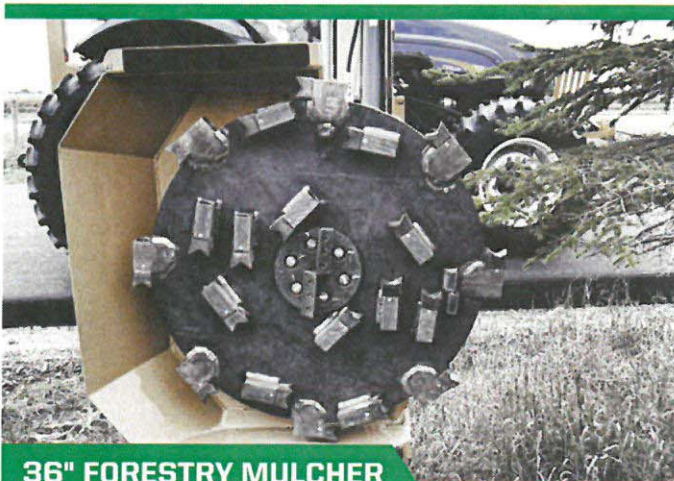
### 50" AND 60" ROTARY HEADS

- Cuts up to 8" diameter material
- Equipped with Diamond's exclusive Reinforcing Ring for longer life in heavy duty brush
- Proprietary Tri-Hex mulching disc provides greater inertia in tough conditions, and is covered by an unprecedented 5-year warranty



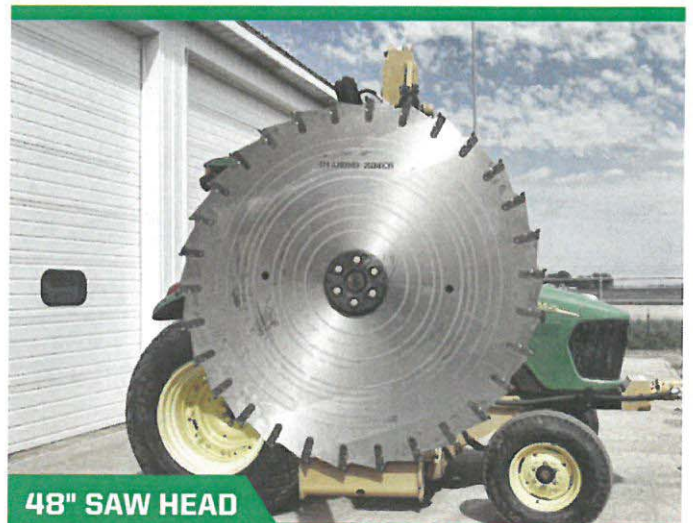
### 44", 50" AND 63" FLAIL HEADS

- 44" and 50" cuts up to 6" diameter material
- 63" cuts up to 2" diameter material
- Protective bonnet for safer operation
- Ideal when a finished cut is desired



### 36" FORESTRY MULCHER

- Cuts up to 8" diameter material
- Very fast production (up to 10x faster than a rotary head)
- Cuts with both the perimeter and bottom surface
- Ability to mulch material
- Highly efficient, hardened steel, replaceable teeth



### 48" SAW HEAD

- Delivers clean, finished cut
- Stand-alone head or saw blade can be used with a 50" Rotary head
- Replaceable Carbide teeth

### EXCEPTIONAL QUALITY COMES STANDARD

Boom mowers come standard with a Lexan, shatter resistant replacement window for the right hand door, a tractor mainframe for a mid-mount booms, a hydraulic cooler, pump and grill guard, and a complete hydraulic system, independent of tractor, with a control valve of your choice.

Diamond leads the industry in mounting booms to Tier 4 tractors.



## ROTARY MOWER HEAD

A rotary mower provides a faster cut for brush and trees leaving a rougher cut than the flail's finer finish. The rotary requires additional safety precautions, but can still cost you less to operate over the long haul.



Mower Head	Head Weight	Features
50" Rotary	831 lbs	Cuts up to 8" material
60" Rotary	965 lbs	Cuts up to 8" material
22" Ditcher	600 lbs	Includes three 3/8" thick replaceable knives
44" Flail	950 lbs	Cuts up to 6" material
50" Flail	1,068 lbs	Cuts up to 6" material
63" Flail	753 lbs	Cuts up to 2" material
48" Saw	775 lbs	Cuts up to 10" material
36" Forestry	780 lbs	Cuts up to 8" material

**100% SATISFACTION GUARANTEE**

**PUT YOUR MOWER TO THE TEST FOR 30-DAYS.**

If you're not 100% satisfied, we'll give you your money back - guaranteed.



### DX2\* MAINFRAME SYSTEM

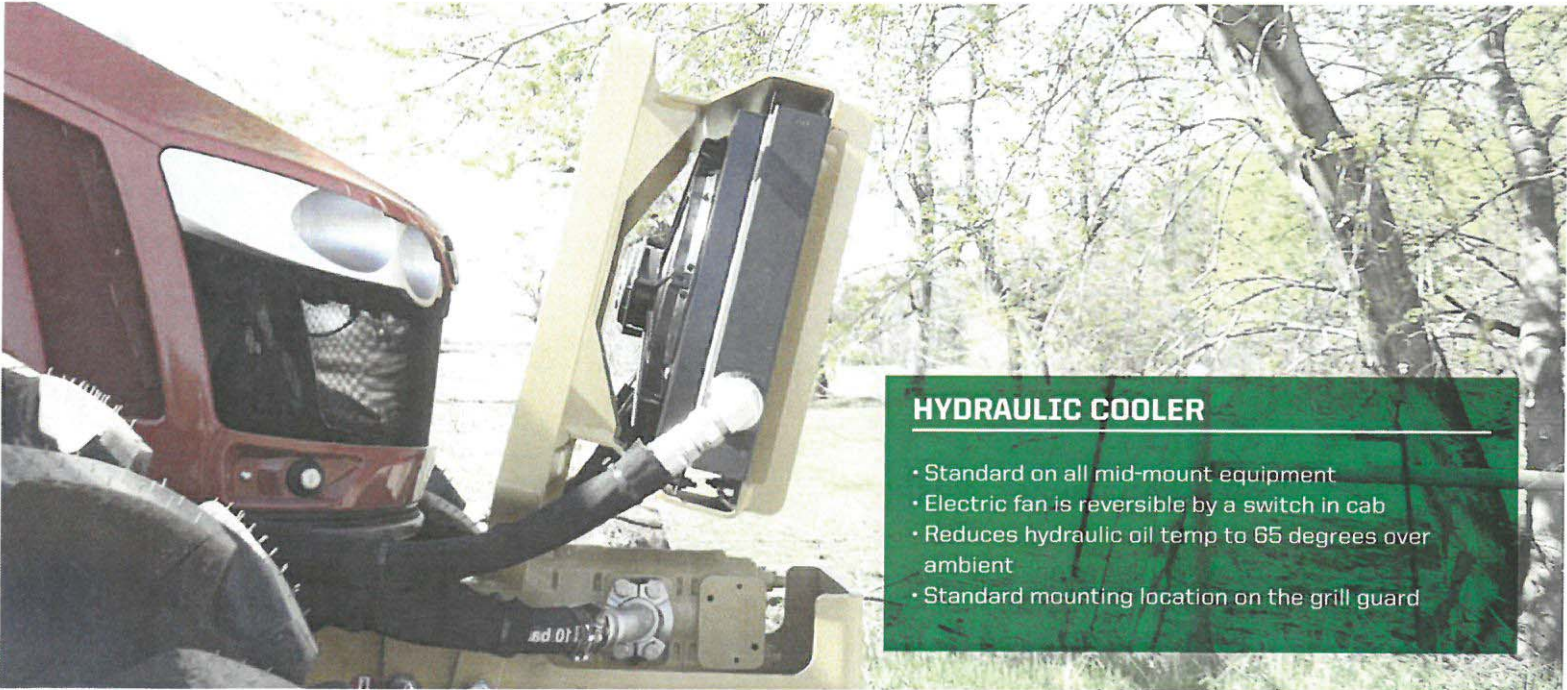
- Available on Rear Cradle Booms
- Accepts side attachments with boom in stow
- Standard on most cradle booms ordered with hydraulic actuator

\*Patent Pending



### DITCHER ATTACHMENT

- Ideal for ditches and culverts
- Equipped with hydraulic chute to direct exhausted material



### HYDRAULIC COOLER

- Standard on all mid-mount equipment
- Electric fan is reversible by a switch in cab
- Reduces hydraulic oil temp to 65 degrees over ambient
- Standard mounting location on the grill guard

### ADDITIONAL OPTIONS

#### 5-FUNCTION CONTROL

- Provides additional control to the hydraulic trap door or 30-ft. telescopic boom

#### FRONT, SIDE, OR FENDER HYDRAULIC TANK MOUNT

- Location is dependent on tractor model

## BOOM OPTIONS AND UPGRADES



### 4-FUNCTION PROPORTIONAL CONTROL JOYSTICK

- Improved ergonomics and decreased operator fatigue
- Increased mowing speed in tough terrain because of shorter operator reaction time



### FRONT END LOADERS

- (Available on many mid-mount booms)
- Easy on - easy off, simple attachment
  - Great for loading sand or salt



### HYDRAULIC ACTUATOR

- Longer life compared to a traditional horizontal swing cylinder
- Fully enclosed
- Fewer moving parts, easier to maintain
- Stronger than traditional pivot pin
- Break-away protection in both forward and reverse
- 180° range of motion versus 110° with traditional swing cylinder



### ADDITIONAL OPTIONS

#### AXLE STABILIZER

- Increases stability by eliminating oscillation on front axle
- Comes standard on booms 25-ft and longer, but can be added to shorter booms for operating on steep hillsides

#### HYDRAULIC TRAP DOORS

- Exposes blades to easily feed material into the cutter head
- Available for 50" and 60" rotary and 50" flail heads



**PROUD TO BE AN AMERICAN COMPANY.**

*We take enormous pride in what we build, because we take enormous pride in how and where we build. Every Diamond product is loaded with decades of dedicated hands-on, made-in-Sioux Falls-SD experience. For over 40 years, we've been offering a face-to-face, handshake guarantee on every product we construct.*

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**350 EAST 60TH ST. N.  
SIOUX FALLS, SD 57104**

**DEMAND BRILLIANCE.**

*For more details, go to [DiamondMowers.com](http://DiamondMowers.com).*

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SHIPPING GUARANTEE**



**100% SATISFACTION  
GUARANTEE**  
★ GET IT, LOVE IT & LEAVE IT! ★

B00M-0517



# WOODS

## MULTI-SPINDLE ROTARY CUTTERS



Durable and easy-to-use cutters for  
brush cutting and crop shredding

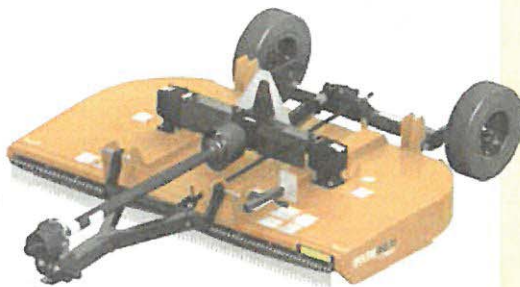
**WOODS**

## Multi-spindle Rotary Cutters

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<b>Specifications Chart</b>	<b>10</b>

More than a dozen gear- and belt-driven models



**DS8.30**  
shown with chain shielding

### Legend

- 30-Series**  
Tractor PTO range 35-100 hp
- 40-Series**  
Tractor PTO range 40-120 hp
- 50-Series**  
Tractor PTO range 50-200 hp
- 60-Series**  
Tractor PTO range 70-230 hp



Since 1946, we've been manufacturing in Oregon, Illinois, and supporting the growth of American jobs.

### Woods GENUINE PARTS

Maintain the quality and performance of your Woods equipment with Woods genuine replacement parts, paint, and lubricants. Available from your authorized Woods dealer.

**Find a Woods Dealer**  
Woods equipment is distributed through a network of authorized dealers. To find your nearest store visit us at [woodsequipment.com](http://woodsequipment.com) or call 800-319-6637.

### Easy to Use

The proven leader in the cutter business delivers a full line of durable easy-to-use rotary cutters. Choose our classic belt-driven model or a 30-, 40-, 50- or 60-series model loaded with features that help you work efficiently and effectively – whatever you're cutting or shredding.

- A floating hitch allows the cutter to follow the terrain. Cross steep inclines and ditches with ease.
- Changing cutting blades is a snap with the exclusive Woods Quick Change Blade Pin System, standard on all gear-driven dual-spindle cutters. 50-Series models also feature a large blade access window in the deck.
- The 50-series offers variable wheel spacing so you can adjust the wheels for row crops.

### Hard to Break

You'll rely on your Woods rotary cutter for years because we still manufacture them with the same dependable quality that we've built in since 1946.

- Woods gearboxes feature heat-treated, alloy steel gears that stand up to the demands of rotary cutting.
- Sloped-top decks shed water and debris to prevent rust and corrosion and wrap around a heavy steel superstructure.
- Spring cushion axles reduce stress spikes to keep your Woods rotary cutter delivering high-performance cutting<sup>1)</sup>
- Factory balanced stump jumpers are standard. Avoid hazards and save your blades from wear and tear.

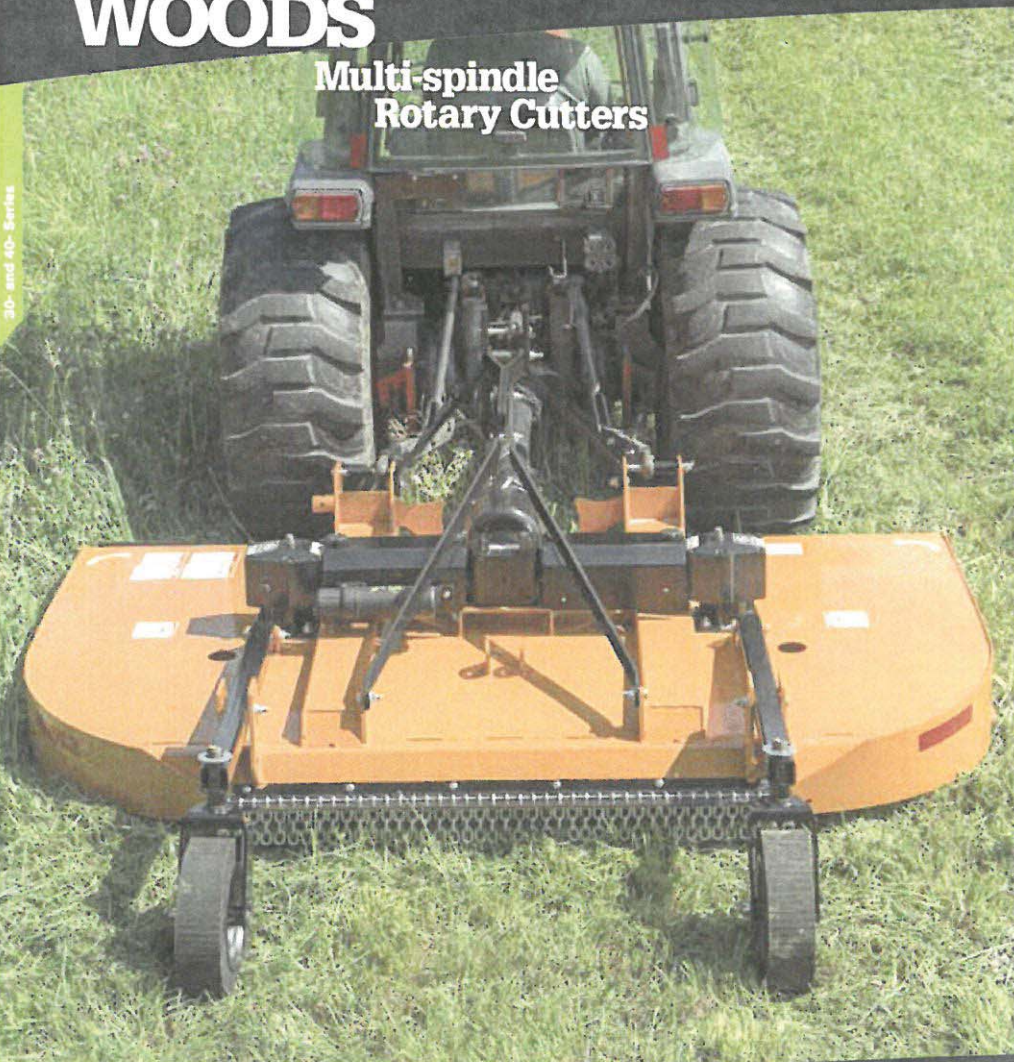
1) N/A on DS8.30 and DS10.40



# WOODS

## Multi-spindle Rotary Cutters

30- and 40-Series



### 30- and 40-Series Dual-spindles

- Models**
- DS8.30** 96-inch, pull-type
  - MDS8.30** 96-inch, 3-point mounted
  - DS10.40** 120-inch, pull-type
  - MDS10.40** 120-inch, 3-point mounted

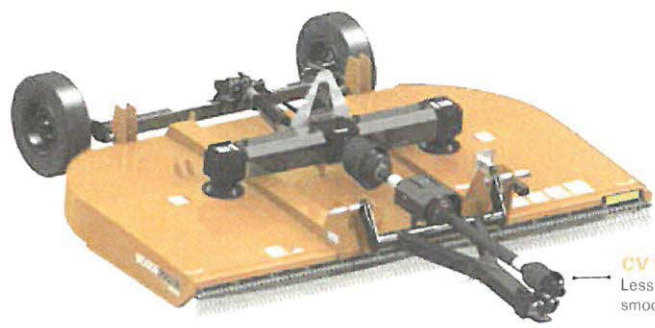
Tractor PTO range: 35–120 hp

- Cuts light brush up to 1.5 inches (30-Series) to 2 inches (40-Series) in diameter
- Variable wheel spacing
- Six-year limited gearbox warranty

**Sloped Top Deck**  
Smooth, sloped deck sheds water and debris to prevent rust and corrosion



**DS8.30**  
shown with chain shielding



**DS10.40**  
shown with chain shielding

**CV Drive**  
Less maintenance, smoother operation

30- and 40-Series

## Multi-spindle Rotary Cutters

### 50-Series Dual-spindles

**Models**

- DS8.50** 96-inch, pull-type
- MDS8.50** 96-inch, 3-point mounted
- DS10.50** 120-inch, pull-type
- MDS10.50** 120-inch, 3-point mounted
- DS12.50** 144-inch, pull-type
- MDS12.50** 144-inch, 3-point mounted

Tractor PTO range: 50–200 hp

- Cuts brush up to 3 inches in diameter
- Variable wheel spacing
- Thumb-screw dipstick



Our new gearbox seal technology features advanced engineering and material specifically developed for heavy-duty jobs in harsh environments.



Our industry-leading six-year warranty covers the gearbox plus the seals - for worry-free performance.

**Quick Change Blade Pins**  
Easy to replace Quick Change blade pins under the deck reduce down time

**Tubular Front Frame**  
Greater strength and rigidity for towing

**Bolt-on Skid Shoes**  
Skid shoes run the full length and are replaceable

**Hydraulically Adjustable Tail Wheel**  
Hydraulic tail wheel offers a variable cutting range

**MDS8.50, mounted**  
shown with chain shielding

**Large Access Window**  
Large blade access window for easy maintenance

### 50-Series Offset Dual-spindles

Woods' rugged and powerful 50-Series offset models are ideal for orchards, tree-lined fields and any setting with overhangs.

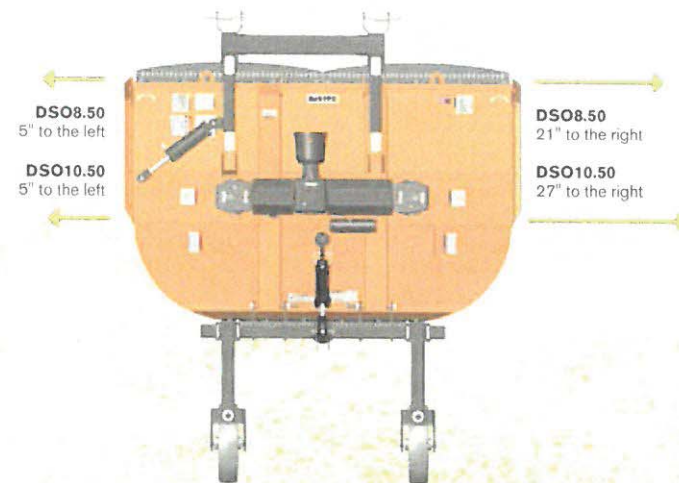
**Models**

- DSO8.50** 96-inch, semi-mounted
- DSO10.50** 120-inch, semi-mounted

Tractor PTO range: 50–200 hp

- Cuts brush up to 3 inches in diameter
- Variable wheel spacing
- DSO8.50 Hydraulic variable offset 21 inches to the right or 5 inches left
- DSO10.50 Hydraulic variable offset 27 inches to the right or 5 inches left
- Six-year limited gearbox warranty

#### Hydraulic Variable Offset



# WOODS

## Multi-spindle Rotary Cutters

### 60-Series Triple-spindles

#### Triple Spindle Models

TS14.60 168-inch

MTS14.60 168-inch

Tractor PTO range: 70–230 hp

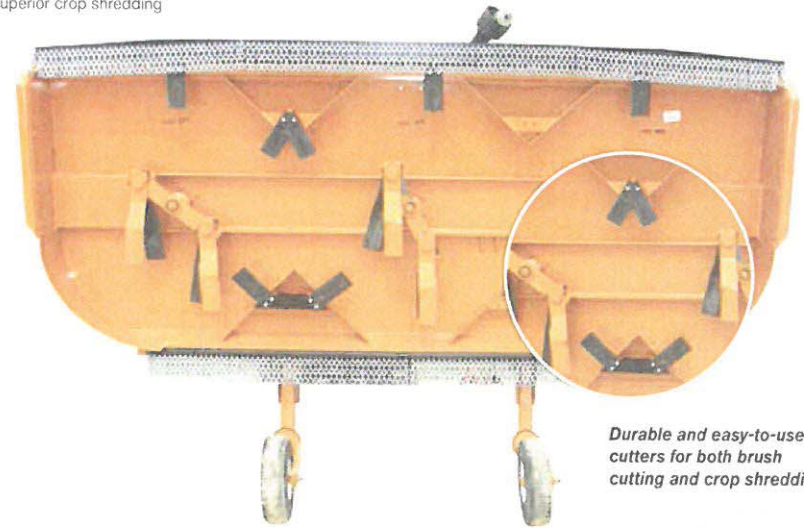
- Optional shredding kit for corn, cotton and milo
- Standard high-torque drive train and baffles
- Variable wheel spacing
- Six-year limited gearbox warranty

This heavy-duty rotary cutter is versatile, rugged, and built to handle a host of applications. A solid and all-around performer, this triple-spindle cutter is well suited for orchard, commercial, and agricultural use such as crop shredding.



TS14.60 shown with optional chain shielding and height adjustment cylinder.

Optional Shredding Kit  
for superior crop shredding



Durable and easy-to-use cutters for both brush cutting and crop shredding.



### Woods Multi-spindle Rotary Cutters

Check out our video on the Woods Equipment channel on YouTube®.

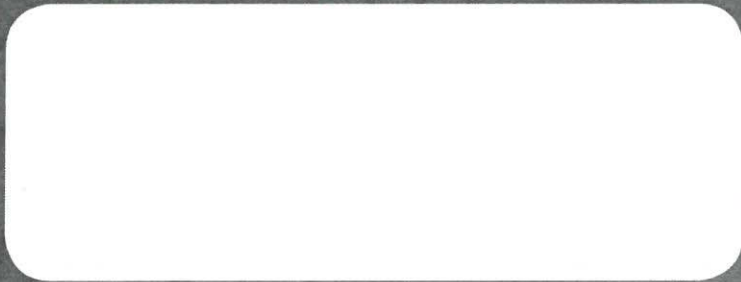
# WOODS

## Multi-spindle Rotary Cutters

Specifications	DS8.30 (pull-type) MDS8.30 (3-point mounted)	DS10.40 (pull-type) MDS10.40 (3-point mounted)	DS8.50 (pull-type) MDS8.50 (3-point mounted)	DS08.50 (offset, semi-mounted)	DS10.50 (pull-type) MDS10.50 (3-point mounted)	DSO10.50 (offset, semi-mounted)	DS12.50 (pull-type) MDS12.50 (3-point mounted)	TS14.60 (pull-type) MTS14.60 (3-point mounted)
<b>Minimum Tractor PTO HP</b>	pull-type: 35 hp mounted: 45 hp	pull-type: 40 hp mounted: 60 hp	pull-type: 40 hp mounted: 55 hp	semi-mounted: 40 hp	pull, semi-mounted: 50 hp mounted: 65 hp	semi-mounted: 50 hp	pull, semi-mounted: 50 hp mounted: 70 hp mounted	pull-type: 70 hp with front weight mounted: 90 hp
<b>Hitch Category / Type</b>	pull-type: pivoting clevis mounted: Cat 1 or 2 / clevis	pull-type: pivoting clevis mounted: Cat 2 & 3 / clevis	pull-type: pivoting clevis mounted: Cat 2 & 3 / clevis	Cat 2 or 3 / clevis	pull-type: pivoting clevis mounted: Cat 2 & 3 / clevis	Cat 2 or 3 / clevis	pull-type: pivoting clevis mounted: Cat 2 & 3 / clevis	pull-type, Cat 2 or 3 / clevis
<b>Hydraulic Variable Offset</b>		N / A		21 inches to the right, 5 inches to the left	N / A	27 inches to the right, 5 inches to the left	N / A	
<b>Cutting Width</b>	96"	120"	96"	96"		120"	144"	168"
<b>Cutting Height Range</b>				2-12"				
<b>Cutting Capacity</b>	1.5"	2"				3"		
<b>Gearbox Horsepower Rating</b>	100 hp center, 75 hp spindle	120 hp center, 90 hp spindle	205 hp center, 160 hp spindle	205 hp center, 160 hp outer	205 hp splitter, 160 hp spindle	205 hp splitter, 160 hp blade spindle	205 hp splitter, 160 hp spindle	235 hp splitter, 205 hp spindle
<b>Blade Tip Speed</b>	15,200 fpm	16,700 fpm	540 rpm / 14,886 fpm, 1,000 rpm / 15,126 fpm	540 rpm / 14,886 fpm, 1,000 rpm / 15,126 fpm	540 rpm / 15,974 fpm, 1,000 rpm / 16,232 fpm	540 rpm / 16,240 fpm, 1,000 rpm / 16,487 fpm		15,540 fpm
<b>Deck Side Depth</b>		10"			13"			
<b>Deck Thickness</b>				10 ga. (.135")			12.6"	12.4"
<b>Overall Width</b>	100"	124"	103"	103"		127"	152"	176"
<b>Overall Length</b>	pull-type: 142" (25" tires) mounted: 96"	pull-type: 155" (25" tires) mounted: 110"	pull-type: 150" (25" tires) mounted: 99"	122"	pull-type: 162" mounted: 111"	128"	pull-type: 175" mounted: 125"	pull-type: 158" mounted: 123"
<b>Approximate weight</b>	pull-type: 1,467 lbs mounted: 1,213 lbs	pull-type: 1,847 lbs mounted: 1,576 lbs	pull-type: 2,238 lbs mounted: 2,069 lbs	2,335 lbs	pull-type: 2,537 lbs mounted: 2,373 lbs	2,510 lbs	3,062 lbs	3,730 lbs
<b>Blade Dimensions</b>				.5" x 4"				
<b>Wheel Selection</b>	laminated, severe duty new ag, foam filled new ag, 15" rims		laminated, severe duty new ag, foam filled new ag, 15" rims, used aircraft		15" laminated	laminated, severe duty new ag, foam filled new ag, 15" rims, used aircraft		21" laminated
<b>Optional Dual Wheels – Pull-Type</b>	no		yes	no	yes	no	yes	yes
<b>Quick-Hitch Ready</b>		yes		no	yes	no	yes	yes
<b>Gearbox Warranty</b>	6 years		6 years, includes seals		6 years		6 years	
	30-Series	40-Series			50-Series			60-Series

Specifications Chart

Specifications Chart



**POWER  
TEAM**

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**B04091** Revised March 2018



**COUNTY COUNCIL OF BEAUFORT COUNTY  
PURCHASING DEPARTMENT**

106 Industrial Village Road, Bldg. 2, Post Office Drawer 1228  
Beaufort, South Carolina 29901-1228

David L Thomas, Purchasing Director  
dthomas@bcgov.net 843.255.2353

**TO:** Councilman Stu Rodman, Chairman, Public Facilities Committee

**FROM:** David L Thomas, CPPO, Purchasing Director

**SUBJ:** New Contract as a Result of Solicitation  
IFB 110518E, Beaufort County Roads Resurfacing Year 2 Projects

**DATE:** 11/19/2018

**BACKGROUND:**

A pavement condition report was prepared by F&ME Consultants dated July 19, 2017. This report serves as a basis for evaluating pavement maintenance and preservation methods for the Beaufort County roadway network. Based on this report the following roads were identified in the years 1, 2 and 3 paving plan.

1. Project #1 Hilton Head Island –Pembroke Drive (Wm Hilton Pkwy to Indigo Run Traffic Circle).
2. Project #2 Bluffton Area –Bluffton Pkwy (Buckwalter Pkwy to Buck Island), Buckwalter Parkway (Fording Island Rd to Bluffton Pkwy South) and Buckwalter Parkway (Bluffton Pkwy South to May River Rd.)

Beaufort County received bids on 11/05/18 for IFB #110518E, Beaufort County Roads Resurfacing Year 2 Projects. Two contractors, Preferred Materials Inc. and Lane Construction submitted a bid in the amounts shown below.

		Preferred	Lane
1. Project #1 Hilton Head Island Road (0.88 miles)	\$289,416	\$383,981	
2. Project #2 Bluffton Area Roads (5.80 miles)		\$3,116,424	\$3,529,220
	Total	\$3,405,840	\$3,913,201

Analysis of the bids submitted reveals no apparent cause for rejecting. Preferred Materials is a responsive bidder and is in compliance with the County's IFB #110518E.

**VENDOR INFORMATION:**

Preferred Materials, Inc.  
\$3,405,845 (Base Bid) + (\$340,584) 10% Project Contingency

**COST:**

\$3,746,424

**FUNDING:**

CTC funds with an available balance of \$3 million and TAG funds with an available balance of \$3.5 million as of November 20, 2018.

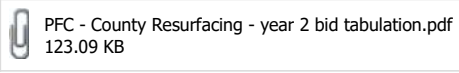


Funding approved:  By:  Date:

**FOR ACTION:** Public Facilities Committee, November 26, 2018.

**RECOMMENDATION:**

Staff recommendation is that Public Facilities approve and recommend to County Council award of the Year 2 Resurfacing Program totaling \$3,405,840 from the funding source listed above. Additionally, recommend approval of a 10% project contingency at \$340,584 for a total project appropriation of \$3,746,424.

Attachment: 

cc: John Weaver, Interim County Administrator

Approved:  Date:

Check to override approval:  Overridden by:  Override Date:

Alicia Holland, Assistant County Administrator, Finance

Approved:  Date:

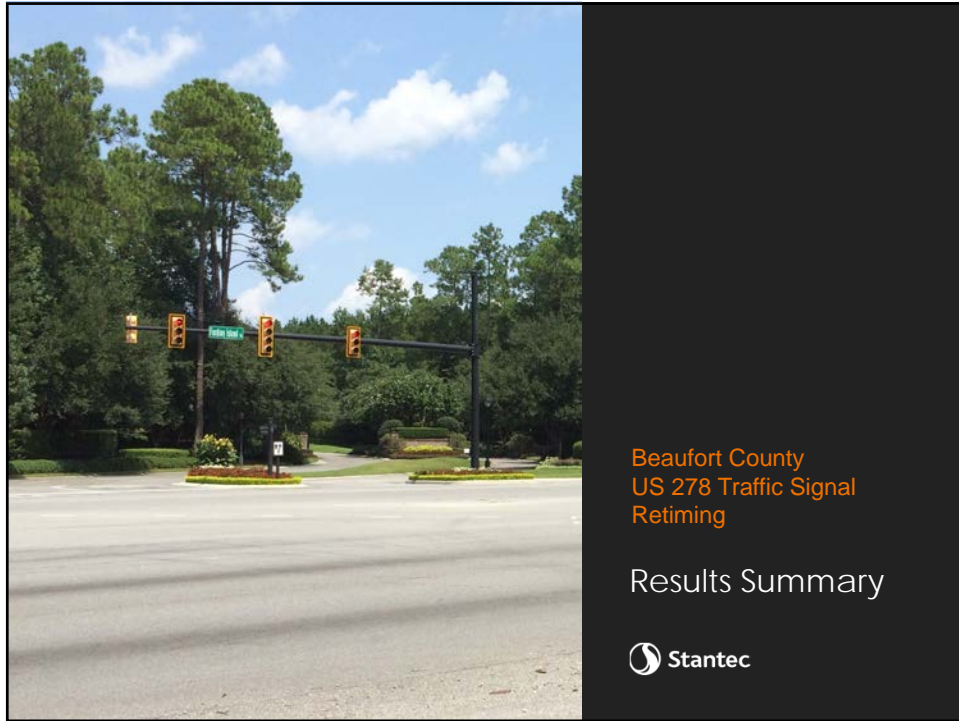
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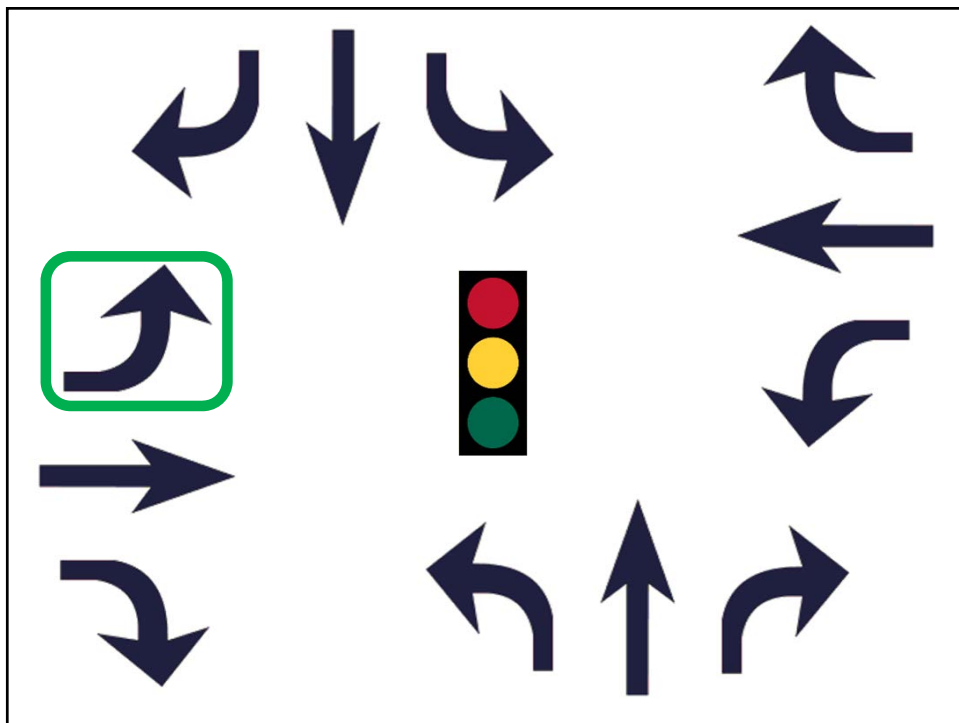
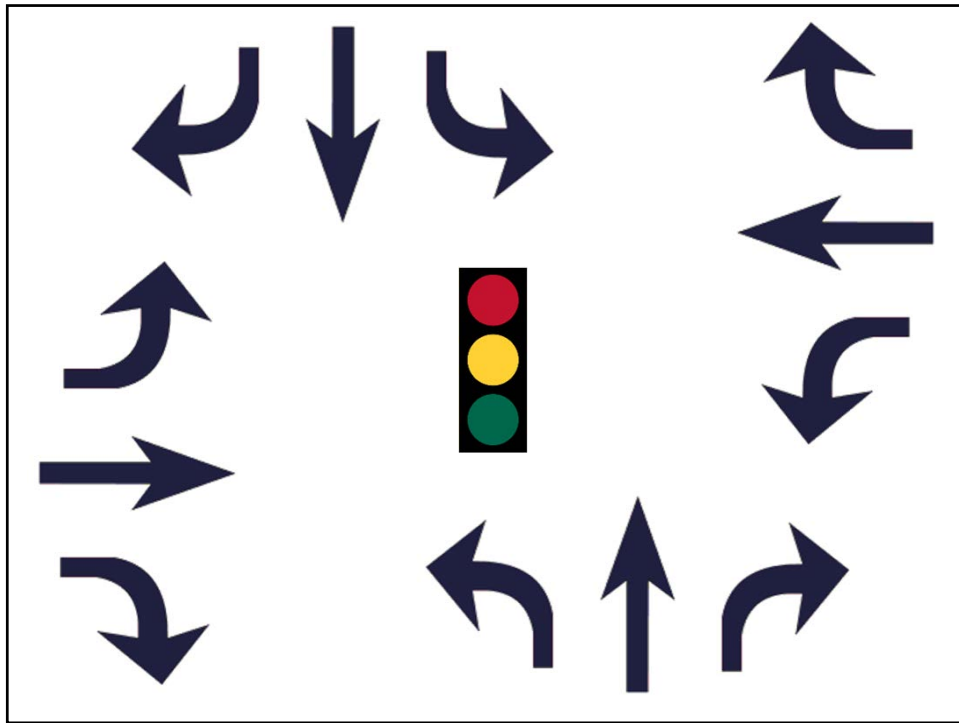
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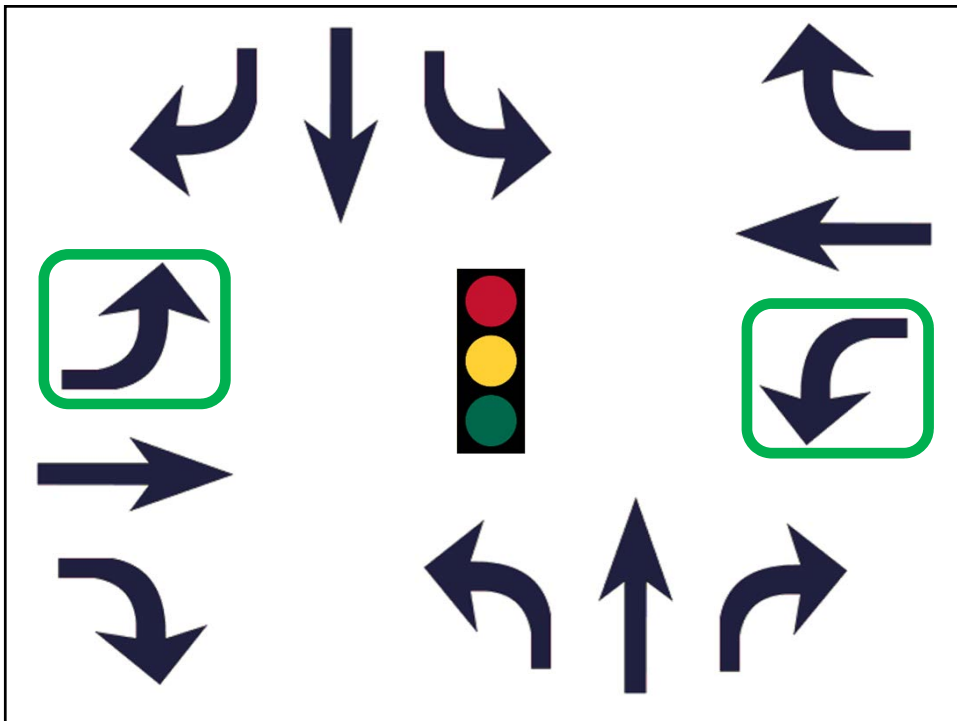
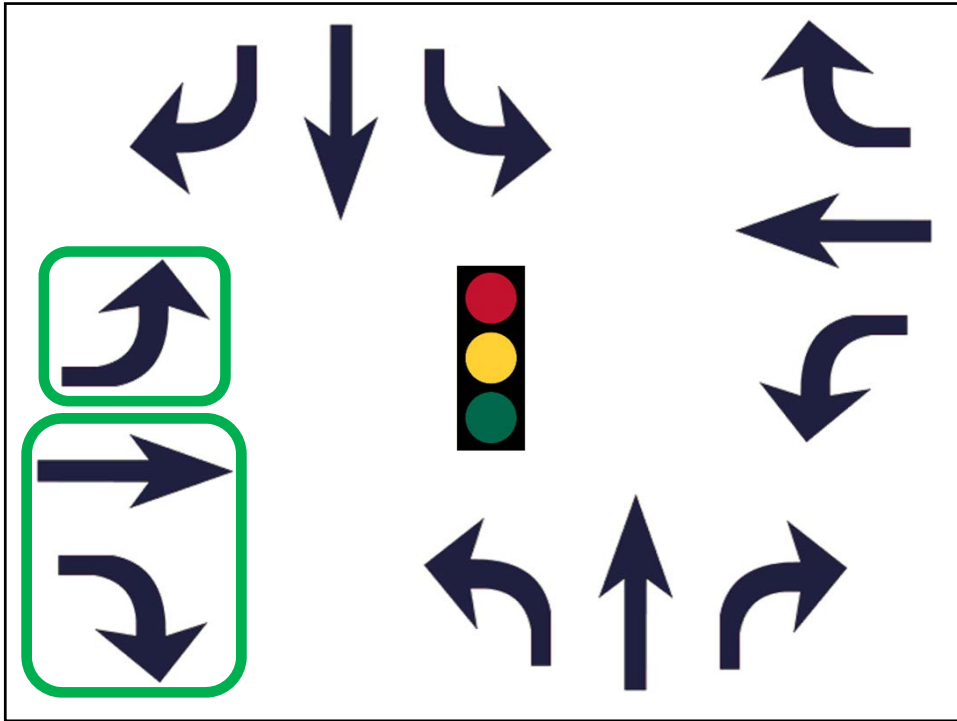
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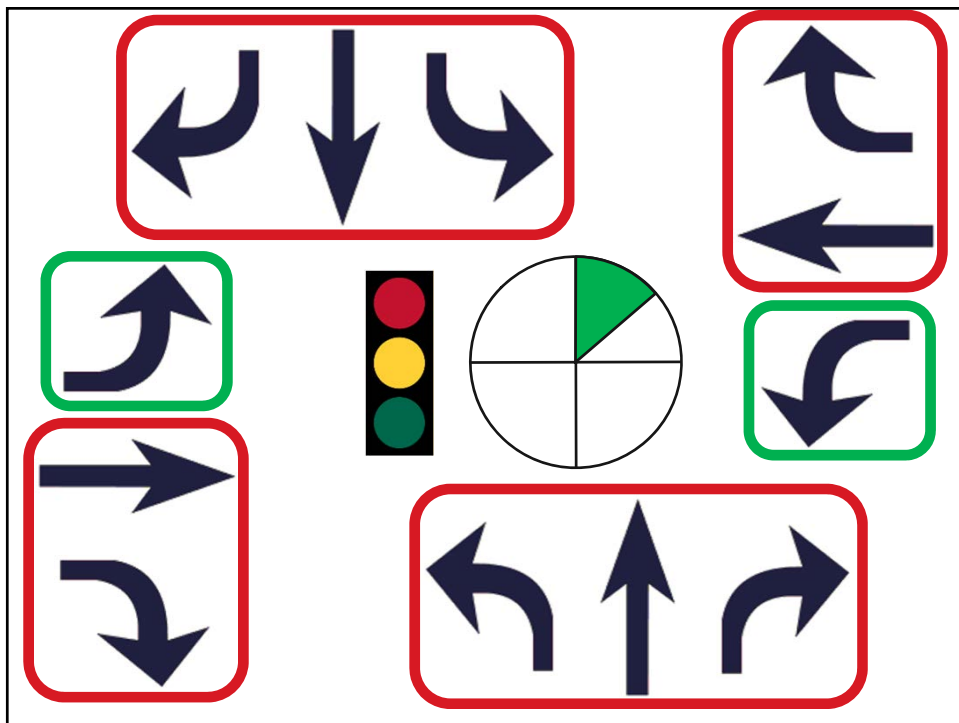
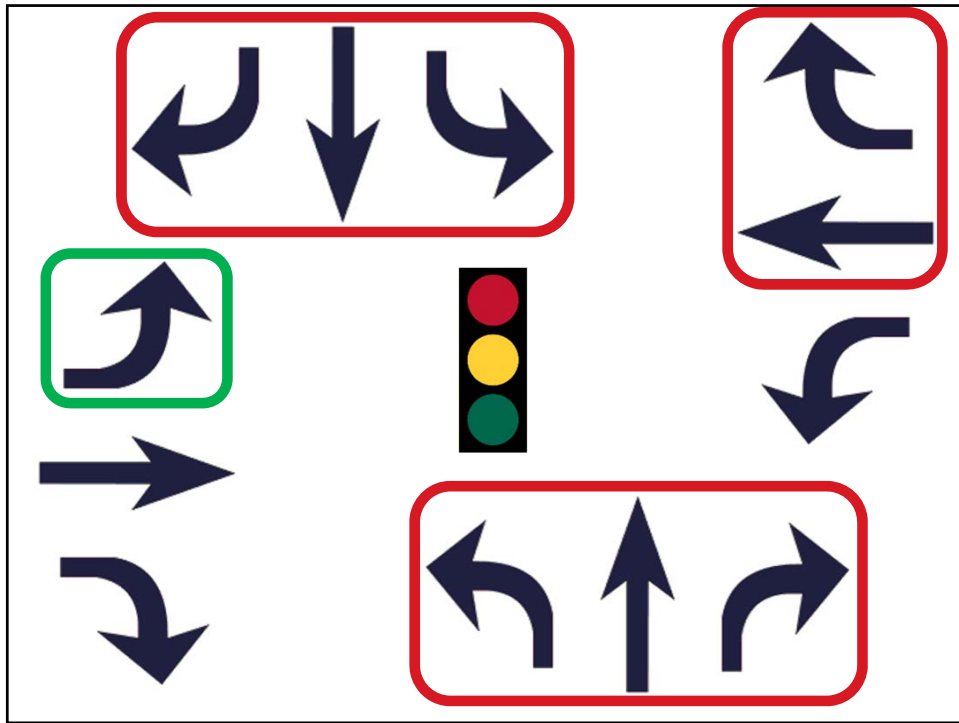
**After Initial Submission, Use the Save and Close Buttons**

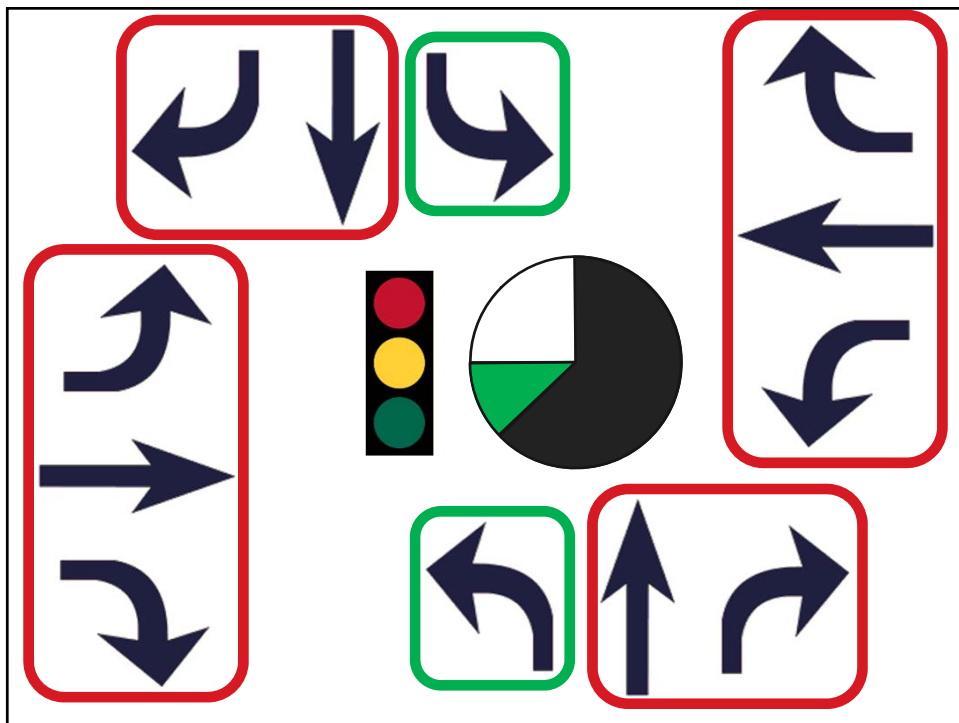
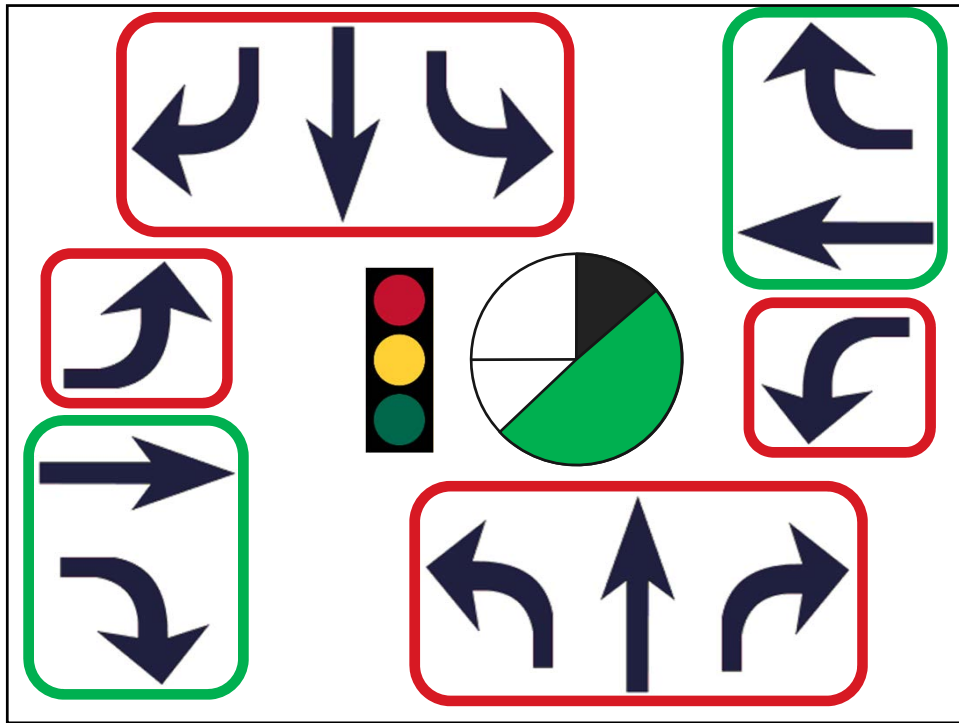
Bid Summary - Bid Opening 11.05.2018 3:00 PM									
IFB #110518 E - Beaufort County Roads Resurfacing				Preferred Materials			Lane Construction		
Year 2 Projects									
PROJECT #1 - Resurfacing - Hilton Head Island									
ROAD NAME	Approx Length	TERMINI DESCRIPTION	TREATMENT TYPE	QTY	UNIT		QTY	UNIT	
Pembroke Drive	0.88	William Hilton Pkwy - Indigo Traffic Circle	* Thin Lift 80 lbs/sq yd lbs Type E	1	LS	\$ 225,000	1	LS	\$ 314,073.55
<b>TOTAL</b>	<b>0.88</b>								
			<b>Total HMA (tons)</b>	880	TONS		978.45	TONS	
			<b>Leveling Allowance - 10% of Total</b>	88	TON	\$ 9,416		TON	\$ 12,230.65
			<b>Total Area of resurfacing (SY)</b>	22,000	SY		20,599.00	SY	
			<b>6" FDP Allowance 5% of Total</b>	1,100	SY	\$ 55,000		SY	\$ 57,677.20
						\$ 289,416.0			\$ 383,981.4
	*	<i>milling as required for tie-ins, curbed areas and cross walks</i>							
	*	<i>eradicate thermoplastic pavement markings where needed</i>							
PROJECT #2 - Resurfacing - Bluffton Area									
ROAD NAME	Approx Length	TERMINI DESCRIPTION	TREATMENT TYPE	QTY	UNIT		QTY	UNIT	
Bluffton Parkway	1.52	Buckwalter Pkwy to Buck Island Rd	** HMA -200lb/sq yd Type B	1	LS	\$ 925,000	1	LS	\$ 915,635.35
Buckwalter Parkway	2.66	Fording Island Rd to Bluffton Pkwy S.	** Thin Lift 125 lbs/sq yd lbs Type E	1	LS	\$ 939,000	1	LS	\$ 1,261,495.15
Buckwalter Parkway	1.62	Bluffton Pkwy S. to May River	** Thin Lift 125 lbs/sq yd lbs Type E	1	LS	\$ 571,000	1	LS	\$ 714,979.80
<b>TOTAL</b>	<b>5.8</b>								
			<b>Total HMA (tons)</b>	15,311	TONS		14,637.71	TONS	
			<b>Leveling Allowance - 10% of Total</b>	1,532	TON	\$ 163,924		TON	\$ 131,739.40
			<b>Total Area of resurfacing (SY)</b>	214,131	SY		204,190	SY	
			<b>6" FDP Allowance 5% of Total</b>	10,707	SY	\$ 517,500		SY	\$ 505,370.25
	**	<i>milling over entire road surface before full depth patching and resurfacing</i>					\$ 3,116,424		\$ 3,529,220
			<b>Grand Totals w/ Allowances</b>			\$ 3,405,840			\$ 3,913,201
			<b>Grand Totals wo/ Allowances</b>			\$ 2,660,000			\$ 3,206,183.85

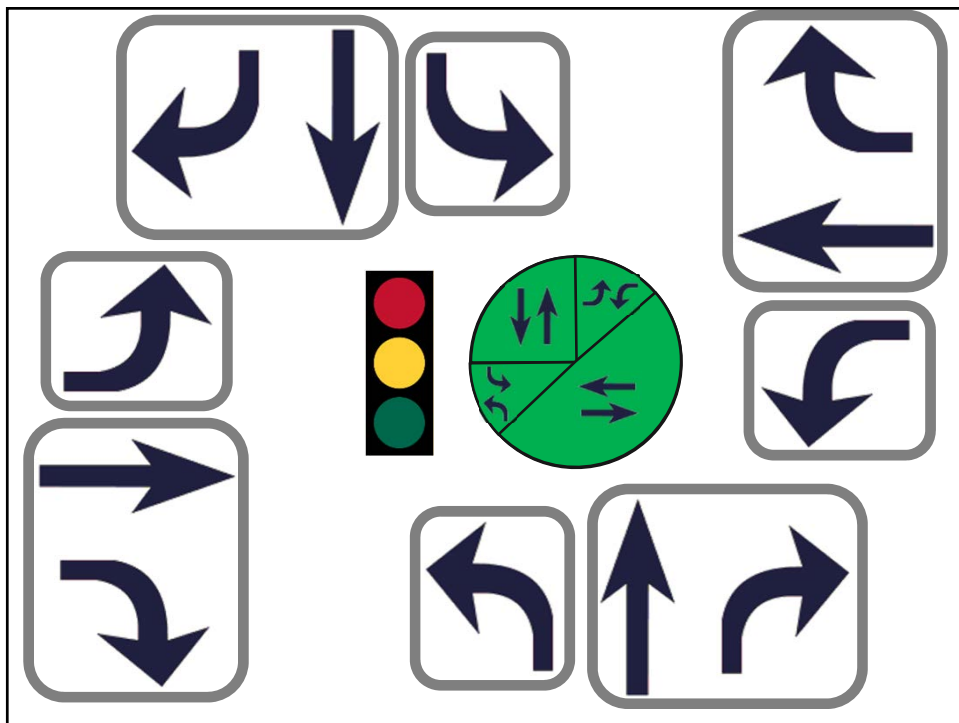
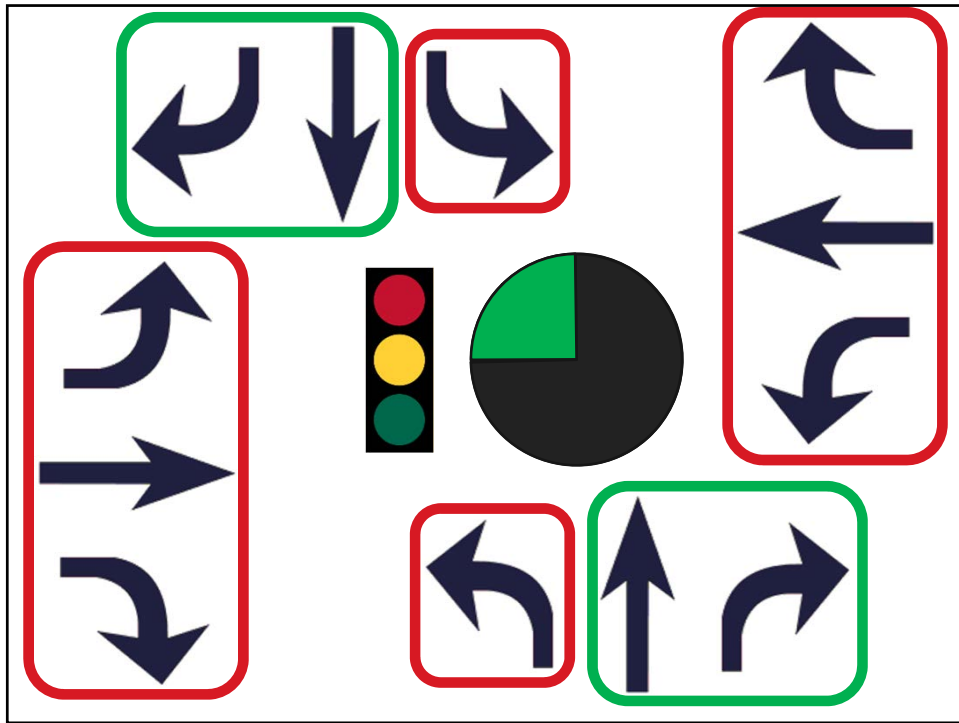






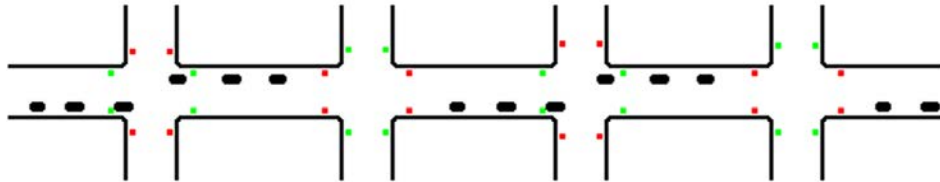




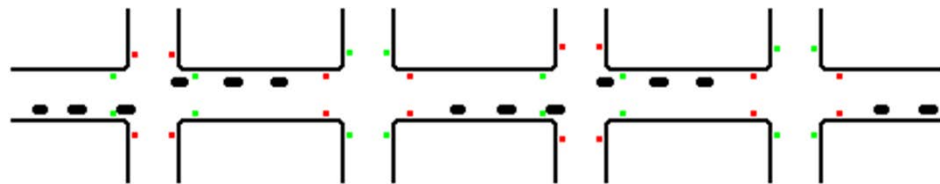


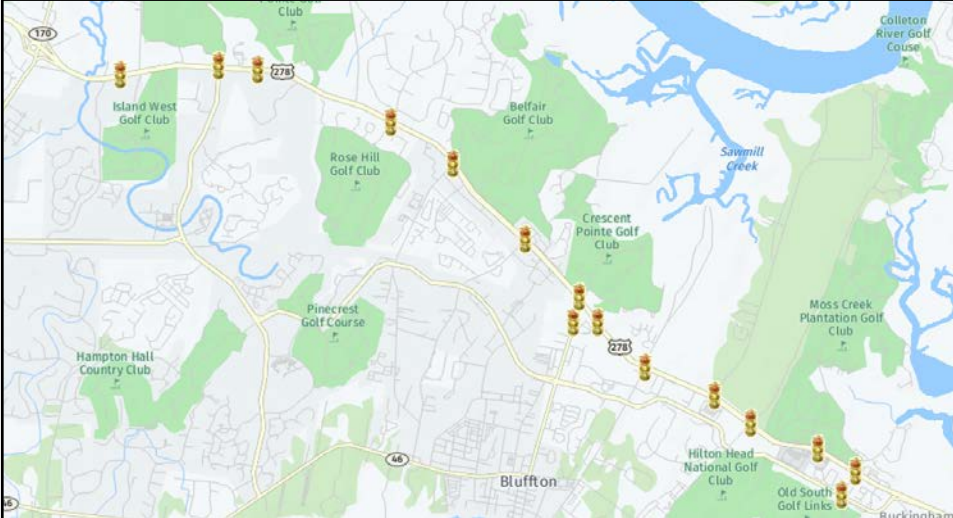


# Progression Example/Demonstration



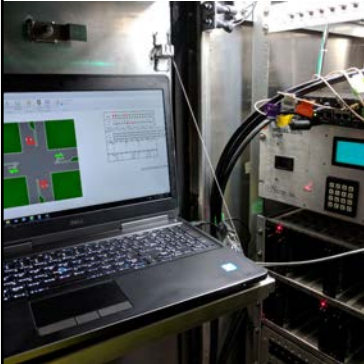
# Progression Example/Demonstration





The map displays the US 278 corridor through Bluffton, South Carolina. It highlights several traffic signal locations with yellow signal head icons. Key landmarks include the Bluffton Parkway flyover, Sawmill Creek, and numerous golf courses such as Island West Golf Club, Rose Hill Golf Club, Belfair Golf Club, Crescent Pointe Golf Club, Hampton Hall Country Club, Pinecrest Golf Course, Moss Creek Plantation Golf Club, Hilton Head National Golf Club, and Old South Golf Links. The map also shows major roads like US 170 and US 44.

**Project Background** | US 278  
(Fording Island Road)



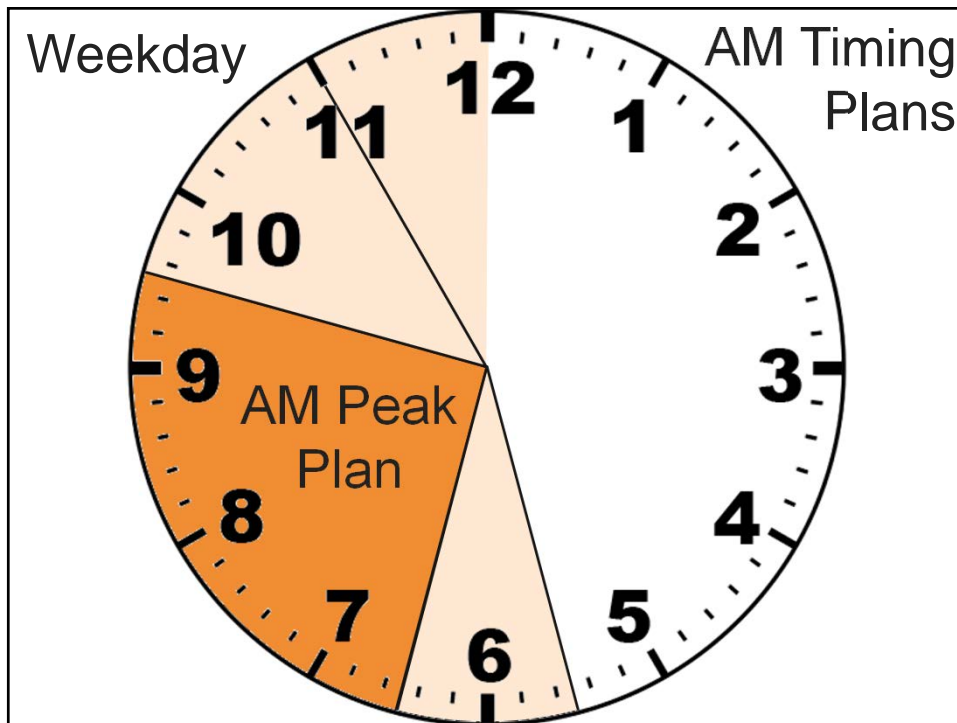
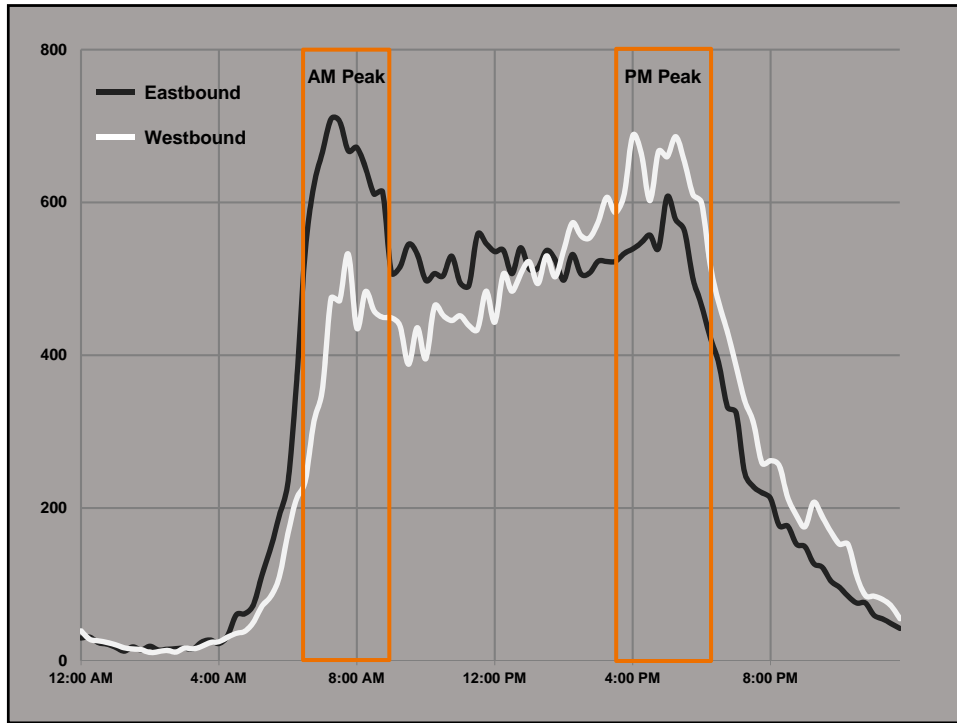
The photograph shows a control room for traffic signals. A laptop is open on a desk, displaying a software interface with a map and data. To the right of the laptop are several control panels with buttons and small monitors, connected to the system by various cables.

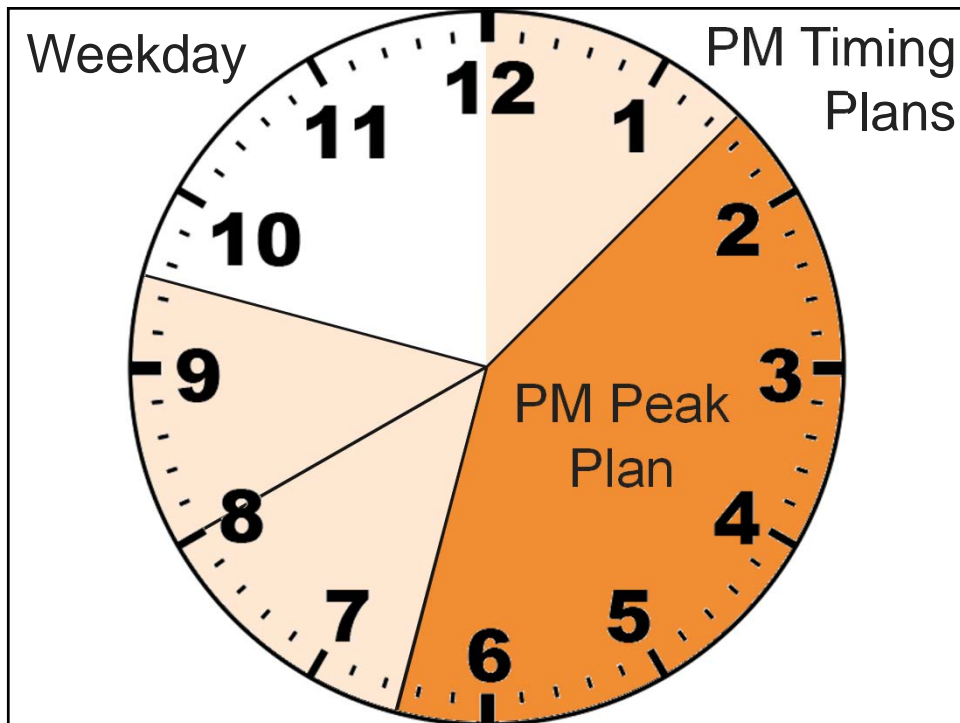
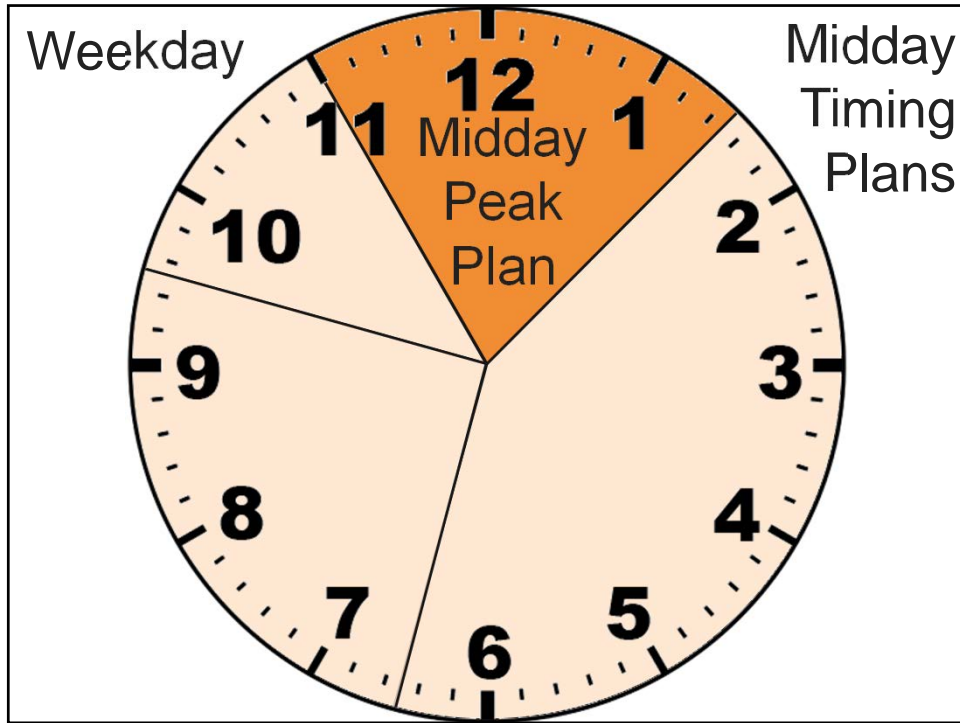
## Time For New Timings

Last retiming project was 2009

US 278 widened to six lanes in 2013

Bluffton Parkway flyover completed in 2016

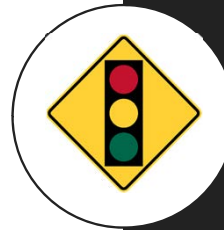




## New Timing Plans

Tasked with developing new plans for seven periods:

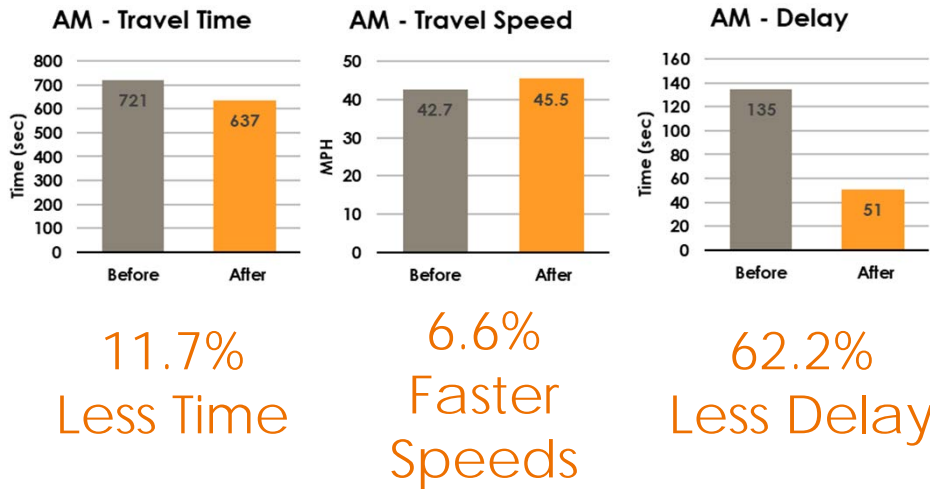
- Weekday AM Peak
- Weekday Midday
- Weekday PM Peak
- Saturday (off-season) Peak
- Saturday Beach Outflow Peak
- Saturday Beach Inflow Peak
- Holiday Shopping Plan



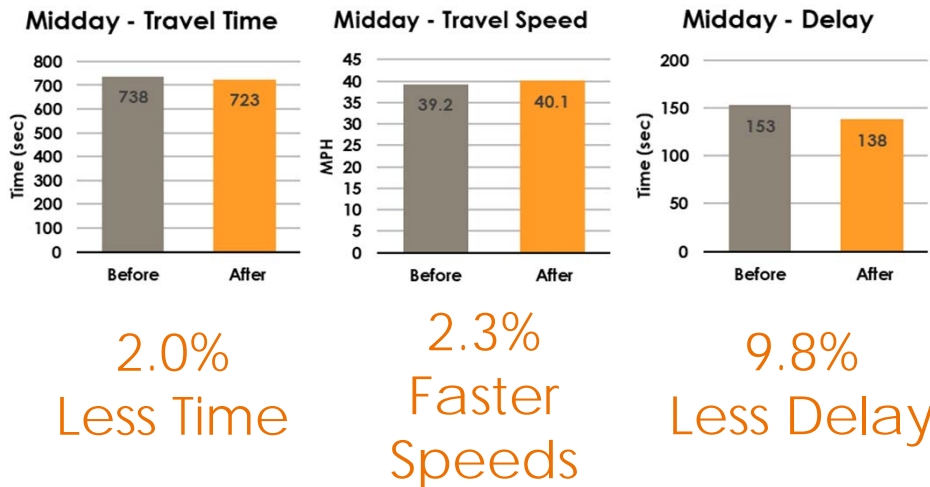
Before and  
After Study  
Results

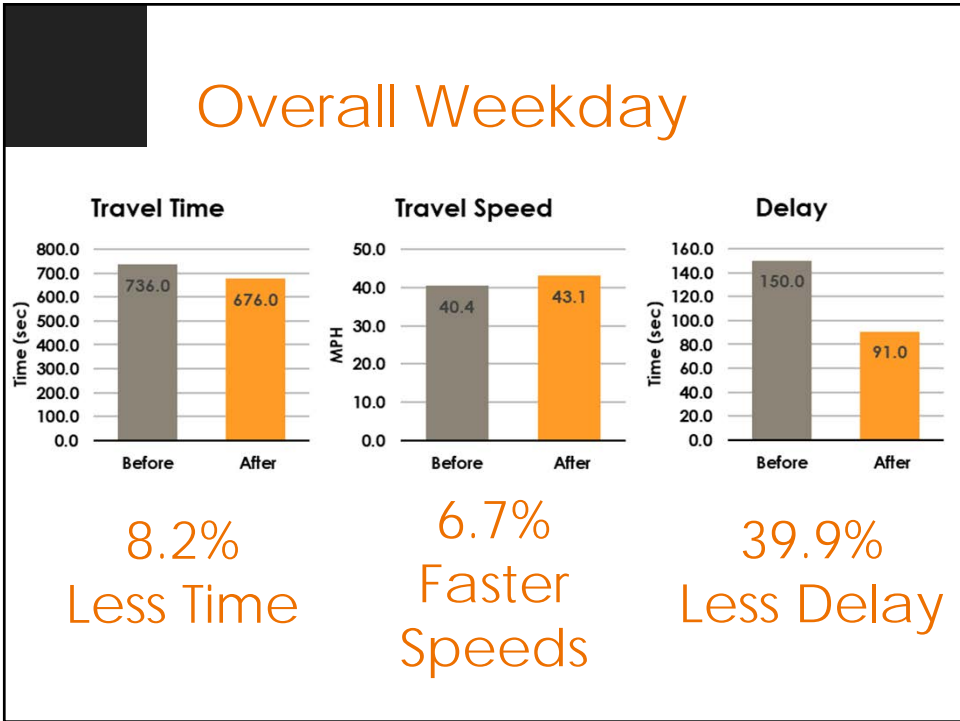
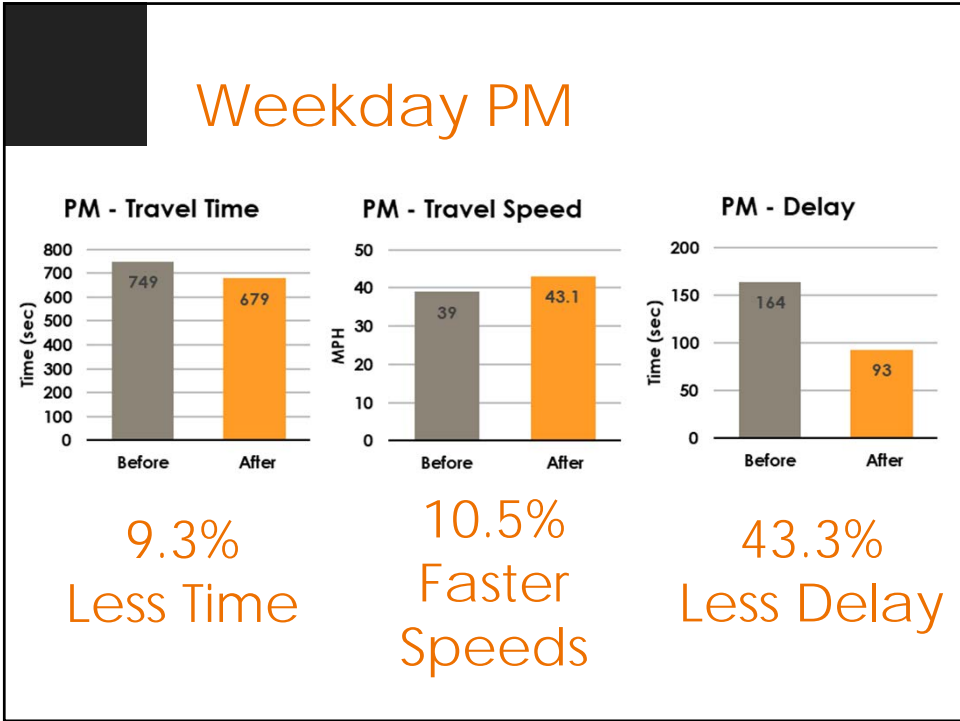


## Weekday AM



## Weekday Midday



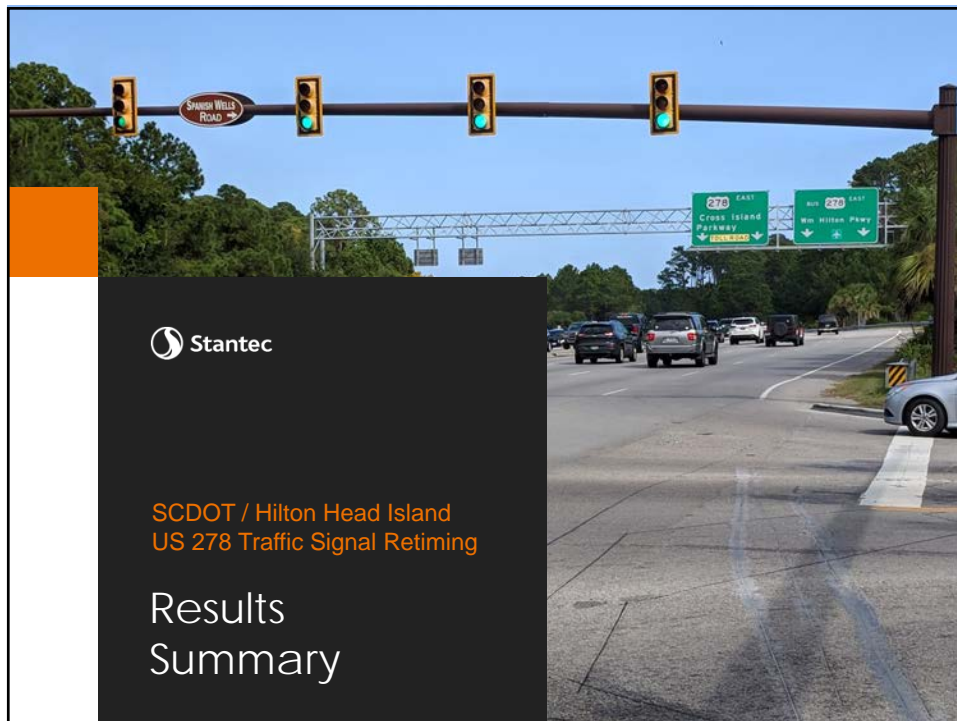


## Benefits and Costs

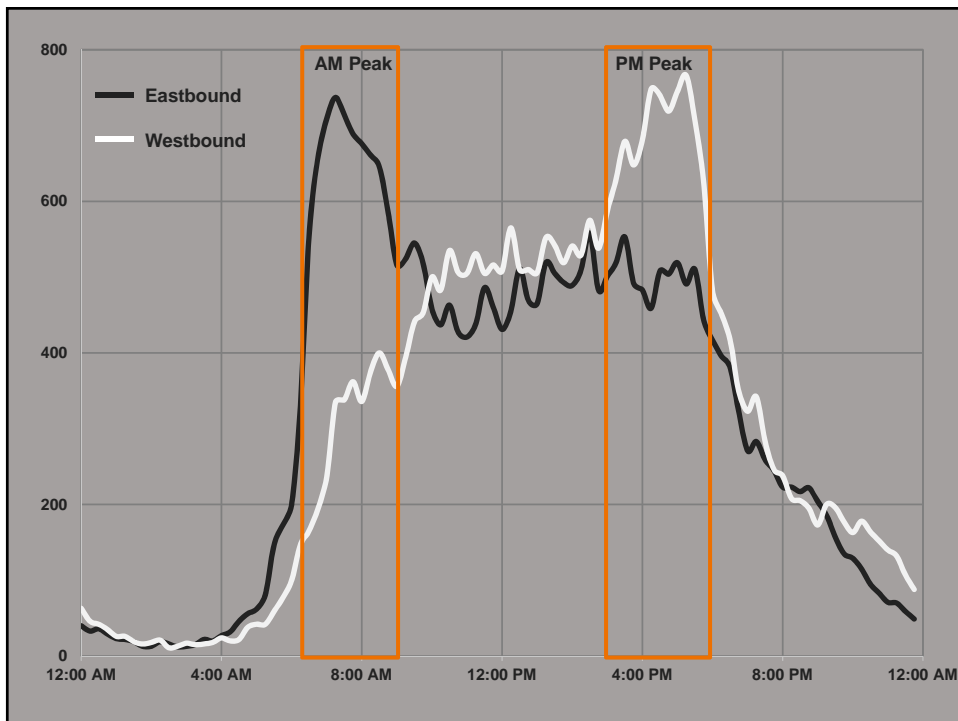
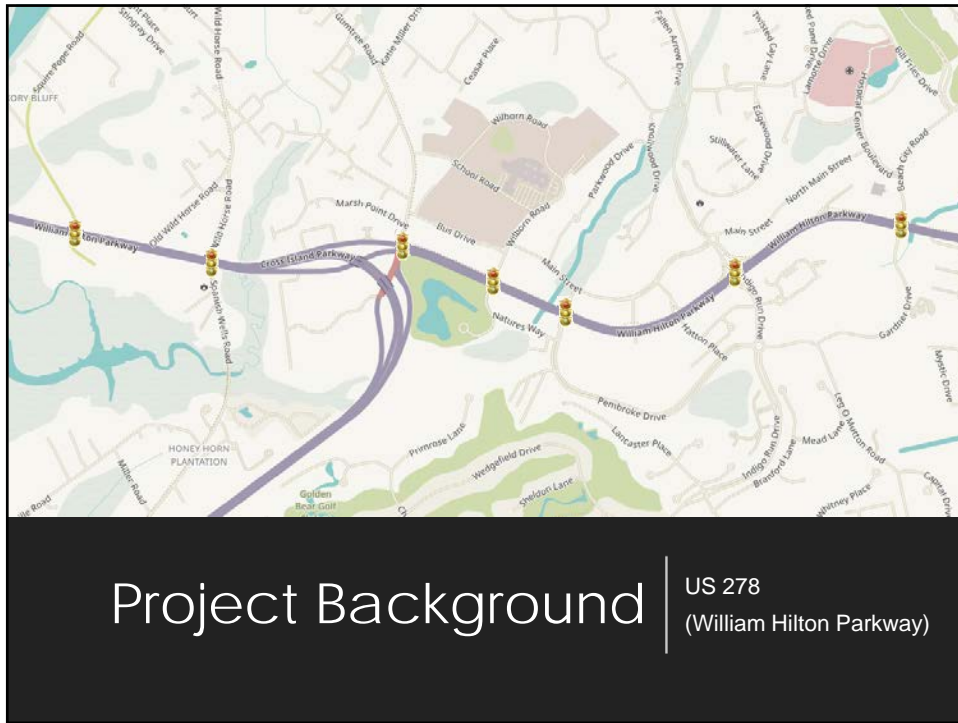
Total project cost \$73,486.00

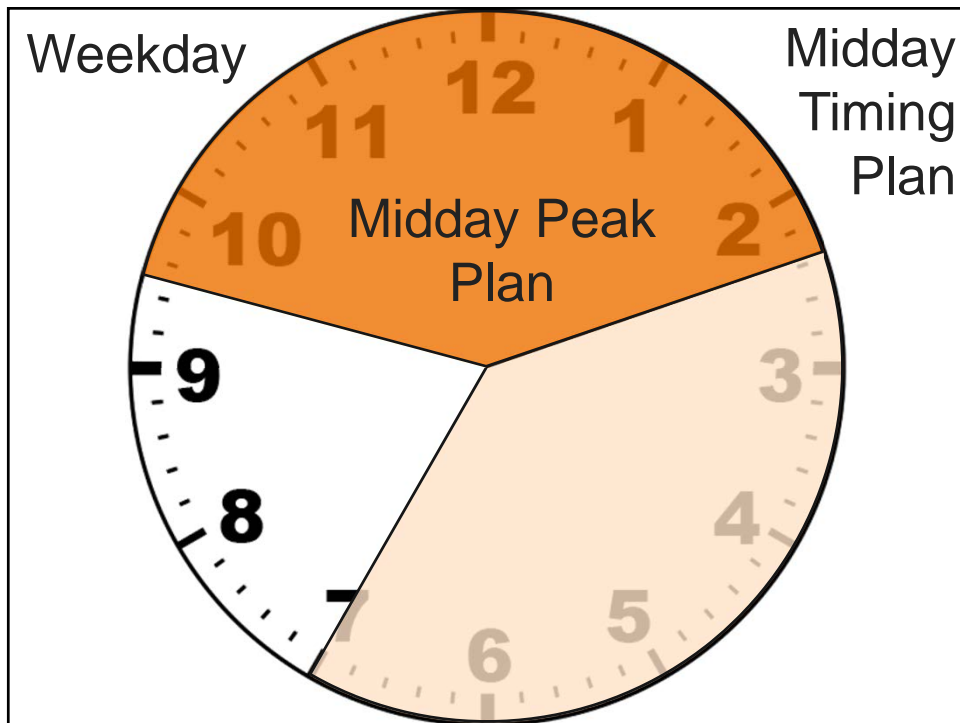
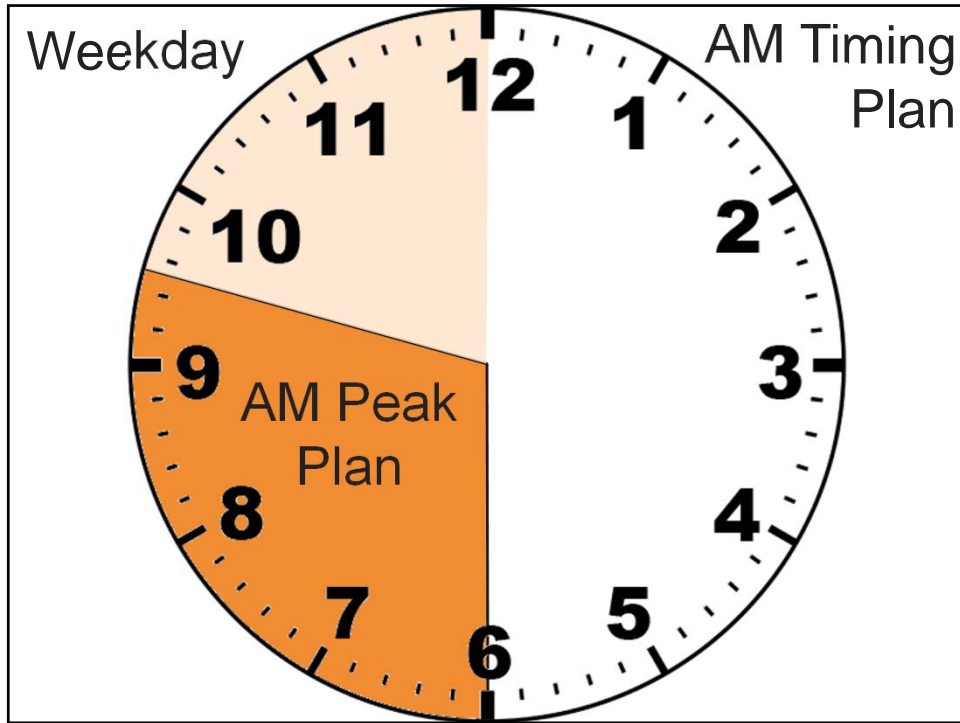
Annual Savings: **55,083** person-hours  
5,578 gallons of fuel  
**\$807,592** annual value

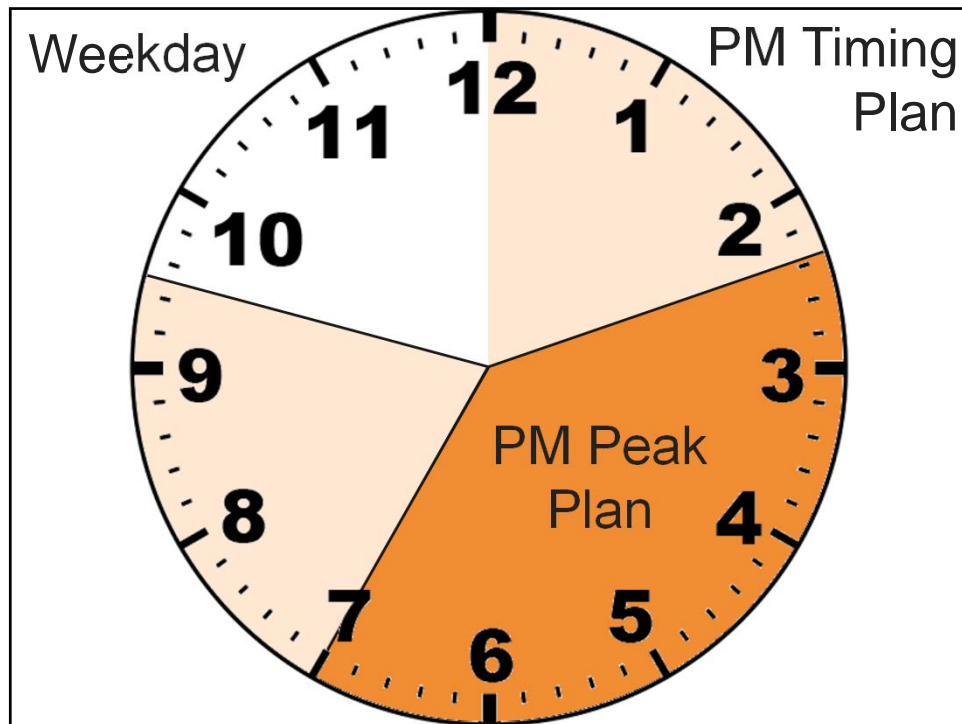
Benefit to cost ratio after two years **20:1**











## New Timing Plans

Tasked with developing two sets of new plans for seven periods:

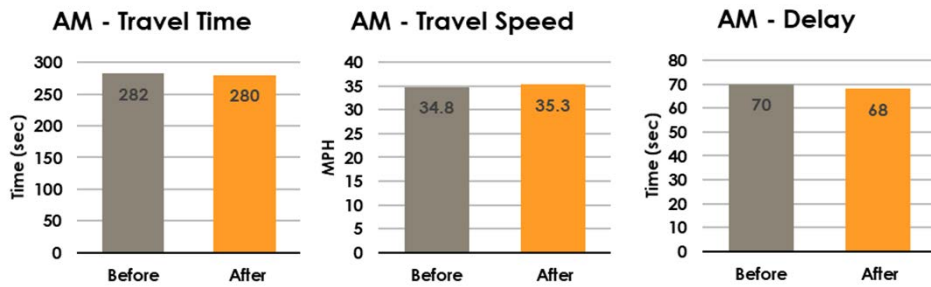
- Weekday AM Peak
- Weekday Midday
- Weekday PM Peak
- Off-Peak
- Saturday HHI Outflow Peak
- Saturday HHI Inflow Peak
- Sunday Peak





Before and After Study Results

## Weekday AM



0.7%  
Less Time

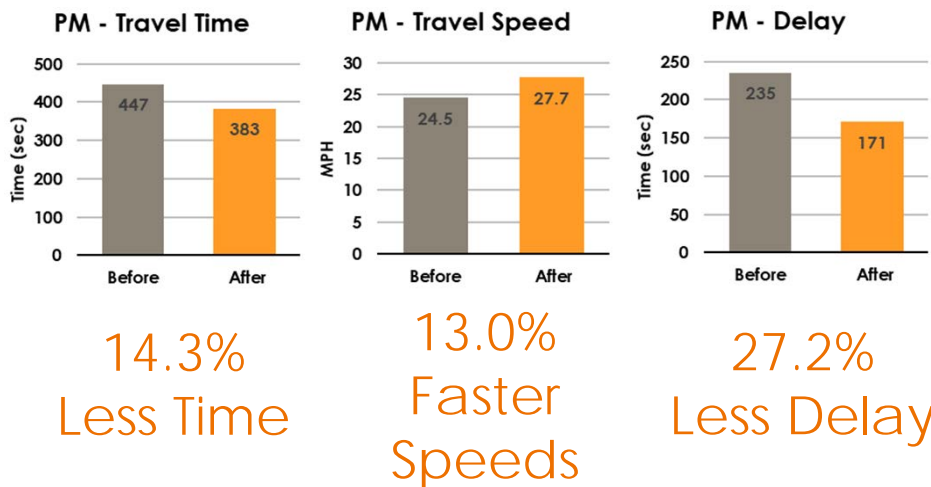
1.4%  
Faster  
Speeds

2.9%  
Less Delay

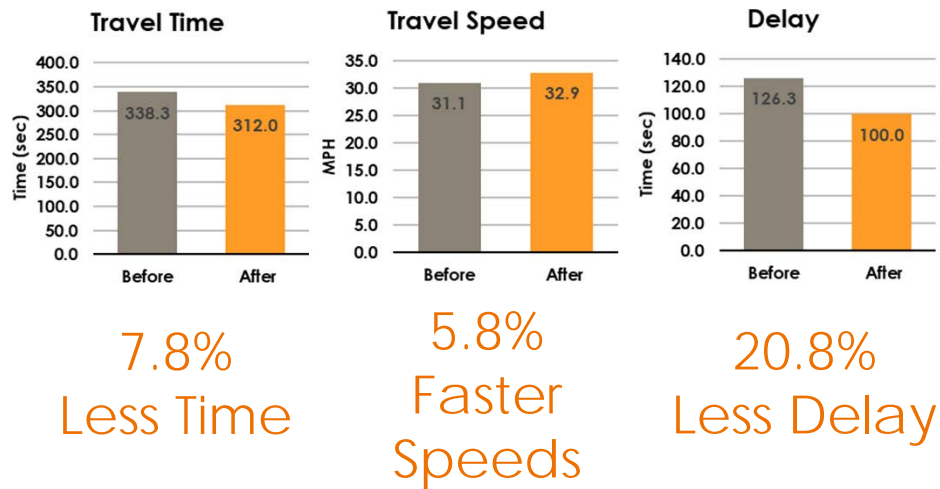
## Weekday Midday



## Weekday PM



## Overall Weekday



## Benefits and Costs

Total project cost \$38,378.00

Annual Savings: 17,632 person-hours  
3,946 gallons of fuel  
 \$264,128 annual value

Benefit to cost ratio after two years 13:1

Beaufort County  
US 278 Traffic Signal  
Retiming

## Results Summary





**COUNTY COUNCIL OF BEAUFORT COUNTY  
ENGINEERING DEPARTMENT**

2266 Boundary Street, Beaufort, South Carolina 29902  
Post Office Drawer 1228, Beaufort, South Carolina 29901-1228  
Telephone: 843-255-2700 Facsimile: 843-255-9420  
Website: www.bcgov.net

TO: Steward Rodman, Chairman of Public Facilities  
VIA: John Weaver, Interim County Administrator  
FROM: Robert McFee, P.E., Division Director for Construction, Engineering & Facilities  
SUBJ: **1 Cent Transportation Sales Tax Referendum – Pathway Design Groups**  
DATE: November 19, 2018

**BACKGROUND.** On November 13, 2017 County Council approved a 1 cent Transportation Sales tax for 3 specific projects in Beaufort County. One of those projects was the construction of up to 24 multi-use pathway facilities located at specific locations across Beaufort County. The referendum was passed by Beaufort County voters on November 6, 2018 and staff needs to begin the permitting, design and construction of these projects.

**RECOMMENDATION.** Based on project locations, priority ranking, and anticipated complexity such as: ROW acquisition, utility conflicts, tree preservation, drainage impacts, etc. , staff recommends the Public Facilities Committee approve the following initial project design groupings in order to deliver these projects in the minimum amount of time necessary and at the least expense to the program. The pathway priority is in parenthesis.

- Design Group 1: Burnt Church Road, Shad Road, Ulmer Road (1) and Bluffton Parkway (3) pathways All Joy Road (6).
- Design Group 2: Laurel Bay Road (2), Joe Fraser (4), Meridian Road (5), and Salem/Old Salem & Burton Hill Road (7)
- Design Group 3: Stuart Point (9), Broad River Blvd. (10), Middle Road (8)
- Design Group 4: Broad River Drive (11), Martin Luther King Drive (13), Ribaut Road/Parris Island Gateway (14)

At the present time, staff plans to revisit this design/construction priority with the Public Facilities Committee on an annual basis and schedule the remaining projects as funding and opportunity allow.

**FOR ACTION.** Public Facilities Committee Meeting, November 26, 2018.

JRM/dit



RESOLUTION 2018 /

A RESOLUTION OF THE BEAUFORT COUNTY COUNCIL TO MAKE A FINDING, WITH SUPPORTING INFORMATION, THAT THE U.S. HIGHWAY 278 BRIDGES TO HILTON HEAD ISLAND IMPROVEMENT PROJECT IS ESSENTIAL TO THE ECONOMIC DEVELOPMENT IN THE AREA, IS CONSISTENT WITH APPLICABLE LOCAL LAND USE PLANS, AND IS ON ALL PRIORITY LISTS MAINTAINED BY BEAUFORT COUNTY

WHEREAS, the 3.7-mile section of United States Highway 278 (US 278) from Moss Creek Drive to Squire Pope Road currently experiences severe daily congestion due to traffic volumes that exceed the capacity provided by the four travel lanes; experiences rear-end crash rates that are substantially higher than similar roadways in South Carolina due to stop and go traffic conditions; and produces congestion and delay leading to crucial interruptions in the transportation network that Beaufort County and the region rely on for the movement of goods and people; and

WHEREAS, all four of the US 278 bridge structures are listed as functionally obsolete and the eastbound structure of the Karl Bowers Bridge over Mackay Creek is structurally deficient; and

WHEREAS, the deficient bridge conditions, traffic congestion, and bottlenecks that occur along this portion of US 278 impact evacuations from Hilton Head Island as this route is the only land-based emergency evacuation route off Hilton Head Island; and

WHEREAS, improving the US 278 Bridges to Hilton Head Island will provide a mechanism for long term economic competitiveness by: improving transportation efficiency and reliability for the movement of people and goods; improving access between employment centers, job opportunities, and workforces; increasing the economic productivity of labor (the fewer hours employees spend commuting will result in higher productivity at their jobs); and supporting long term job creation; and

WHEREAS, the deficient bridge conditions, traffic congestion, and bottlenecks that occur along this portion of US 278 impact the reliability and resiliency of the Strategic Statewide Freight Roadway Network as listed in the SCDOT South Carolina Statewide Freight Plan, which Beaufort County relies on to support its robust tourism economy; and

WHEREAS, according to a 2017 Regional Transactions Concepts, LLC study, over 2,600,000 tourists visit Hilton Head Island each year, estimated to contribute an economic impact (output) of approximately \$1.44 billion within the County in 2016. Most of these tourists travel to Hilton Head Island using the US 278 bridges; and

WHEREAS, according to a 2017 study by the U.S. Travel Association, Beaufort County supplied the 3rd highest number of tourism jobs in the state; and

WHEREAS, according to the U.S. Census Bureau, Center for Economic Studies, Inflow/Outflow Analysis (2015), 12,693 people commute to Hilton Head Island daily from other areas using the US 278 bridges, representing 61.5% of the workforce on Hilton Head Island; and

WHEREAS, the Beaufort County Council does hereby find that the current condition of the US 278 Bridges to Hilton Head Island is a significant impediment to our citizens and visitors and a hindrance to the economic activity and future development in the region; and

WHEREAS, the US 278 Bridges to Hilton Head Island Improvement Project represents tangible progress towards achieving goals and objectives set by the State and Beaufort County; and

WHEREAS, according to the Beaufort County 2010 Comprehensive Plan, the US 278 Bridges to Hilton Head Island Improvement Project is located within a rural/undeveloped land use area, providing the transportation linkage between regional commercial land along the US 278 corridor in Bluffton and a mix of land use types on Hilton Head Island including park, non-residential, and residential land; and

WHEREAS, the US 278 Bridges to Hilton Head Island Improvement Project is projected to cost in excess of \$245,000,000 based on the 2018 SCDOT engineering estimate; and

WHEREAS, Beaufort County has committed over \$100 million in County funding in the past to help preserve capacity and improve safety of the US 278 corridor; and

WHEREAS, Beaufort County voters have supported the November 2018 1 cent transportation referendum committing \$80 million in local funds for the US 278 Bridges to Hilton Head Island Improvement Project; and

WHEREAS, Beaufort County has funded 66% of the \$6 million Environmental Assessment in partnership with SCDOT and FHWA; and

WHEREAS, the \$6 million Environmental Assessment will analyze options and develop an appropriate solution to address long-term operations, capacity, and safety along US 278 from Moss Creek Drive to Squire Pope Road; and

NOW, THEREFORE, BE IT RESOLVED BY THE BEAUFORT COUNTY COUNCIL, that the US 278 Bridges to Hilton Head Island Improvement Project is essential to continued economic development in Beaufort County; and

BE IT RESOLVED, the US 278 Bridges to Hilton Head Island Improvement Project is consistent with the existing and planned future land use plans as described in the Beaufort County 2010 Comprehensive Plan; and

BE IT RESOLVED, Beaufort County has listed the US 278 Bridges to Hilton Head Island Improvement Project as a top priority under the Policy Agenda for the 2018 Beaufort County Strategic Plan.

Adopted this \_\_\_\_ day of \_\_\_\_\_ 2018.

COUNTY COUNCIL OF BEAUFORT COUNTY

By: \_\_\_\_\_  
D. Paul Sommerville, Chairman

APPROVED AS TO FORM:

\_\_\_\_\_  
Thomas J. Keaveny, II, Esquire  
Beaufort County Attorney

ATTEST:

\_\_\_\_\_  
Connie L. Schroyer, Clerk to Council



**COUNTY COUNCIL OF BEAUFORT COUNTY  
ENGINEERING DEPARTMENT**

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Telephone: 843-255-2700 Facsimile: 843-255-9420  
Website: www.bcgov.net

TO: Steward Rodman, Chairman of Public Facilities  
VIA: John Weaver, Interim County Administrator  
FROM: Robert McFee, P.E., Division Director for Construction, Engineering & Facilities  
SUBJ: **Vegetative Maintenance**  
DATE: November 20, 2018

**BACKGROUND.** The South Carolina Department of Transportation (SCDOT) is responsible for the maintenance of all the US and SC primary routes in Beaufort County. Their program for vegetative maintenance (roadside mowing) allows for 4 mowing cycles across the 46 counties in South Carolina.

**RECOMMENDATION.** Due to the long growing season in Beaufort County, this frequency is often insufficient to keep roadside vegetation to acceptable levels. Administration has been in discussions with SCDOT regarding additional mowing cycles for Beaufort County primary routes. These routes are the most heavily travelled by residents and tourists alike, and their condition is important for both safety aesthetics. The cost to double the mowing cycles on the primary system (US and SC routes) from 4 to 8, using the SCDOT selected contractor, would be approximately \$108,000.00 per year.

**FUNDING.** Evenly distribute from the following sources: A-Tax, H-Tax, TAG funds and CTC funds.

**FOR ACTION.** Public Facilities Committee Meeting, November 26, 2018.

**RECOMMENDATION.** The recommended funding sources for this work are evenly distributed at \$27,000 each from A-Tax, H-Tax, TAG funds and CTC funds.

Fund Balances are as follows [REDACTED].

JRM/dit

# ADD-ONS

The document(s) herein were provided to Council for information and/or discussion after release of the official agenda and backup items.

Topic: Summary of 2018 Goals

Date Submitted: November 26, 2018

Submitted By: Stu Rodman

Venue: Public Facilities Committee

## Public Facilities – '17 & '18

### 1. Meetings:

- Monthly - '17
- Bi-monthly - '18

### 2. 278 Corridor Referendum:

- 1Q17 – Bridge Replacement Discussion
- 2Q17 - EA Guarantee & Pathways & HHI Congestion
- 1Q18 - SIB Consultant (\$90K)
- 2Q18 - Ed Consultant (\$140K) & Jenkins I Mod (\$170K)

### 3. Contracts:

- \$8M - Roads
- \$8M - Equipment / Other

### 4. Capital:

- Comp & Priority Investment Plan
- 2022 Referendum

### 5. Coordination:

- Council Priorities ('17 OK / '18 OK except ferry study)
- Solid Waste (Curbside RFP, Beautification Board, litter control)
- CTC (SCDOT relationship, advice?)

### 6. Resolved Issues:

- Bluffton EMS Relocation
- Business Park road transfer
- SCDOT Turnback
- Bluffton Parkway 6&7

### 7. Routine:

- Retreat & assigned Priorities
- Updates (Animal Shelter, Local Preference, CTC, etc.)
- Housekeeping (1 per meeting)
- Daufuskie I (1 per meeting) - Lease / Park / Golf Carts

### 8. Pending Issues:

- 278 Corridor - Quarterly update with Town?
- HHI Corridor Congestion
- Bluffton Parkway Circle
- CTC Relationship?
- '19 Capital Plan / 2022 Referendum
- Shovel Read
- Old Miller Rd
- Ferry (CC Priority)
- HHI Transfer Station / Jasper Coordination