QUEEN BEE STEWARDSHIP
SCHEDULE OF ITEMS

Item Number	Item Description & Milepost	C or R[1]	Unit & M of M[2]	Quantity	Road Std. (W,D,S)[3]	Unit Allowance	Estimated Allowance
	FR 5241	**R**			**S**	DATE:	7/7/2015
	M.P. 0.0-0.03			0.03			
249(03)	Composite Road Construction Work includes preparing bed for installation. Shape road to crown to match typical drawing.		LS LSQ	1		$ 150.00	$ 150.00
	M.P. 0.00-0.01						
203(04)	Removal/ reinstall safety end section left end of pipe extension upon pipe bed preparation.		EA AQ	1		$ 150.00	$ 150.00
602(50)	Furnish & install 18"x14' round corrugated metal pipe with 2' band. (Riveted 16 Gauge)		LF AQ	14		$ 22.00	$ 308.00
301(01)	Untreated Aggregate Courses Furnish / Haul and place 15 C.Y. Crushed aggregate surfacing (19.5 CY loose material) at milepost 0.00- 0.01.		CY DQ	15		$ 25.00	$ 375.00
	M.P. 0.01- 0.03						
249(03)	Widen entrance to left to transition road bed to US-45 and shape to crown. For local borrow excavate 20 C.Y. additional material by cutting road bed past the buried cable. And use as fill to cover pipe extension.		LS LSQ	20		$ 5.00	$ 100.00
204(52)	Unclassified borrow. Work includes hauling and placing 45 C.Y. (58.5 C.Y. loose) pit run borrow from North Jay Bird Pit all the way up to the top of the hill.		CY DQ	45		$ 12.00	$ 540.00
	FR 5241 Total Specified Road						**$1,623.00**
	FR 5242	**R**			**S**		
	M.P. 0.00-0.02			0.02			
204(52)	Unclassified borrow. Work includes hauling and placing 30 C.Y. (39 C.Y. loose) pit run borrow from North Jay Bird Pit to increase right radii of the entrance to a total of 30' wide. Shape and crown road bed.		CY DQ	30		$ 12.00	$ 360.00

[1]C = Construction; R = Reconstruction
[2]Method of Measure
[3]W = Winter; D = Dry Summer; S = Summer

Prepared by Mary T. Zelinski
Civil Engineering Technician

QUEEN BEE STEWARDSHIP
SCHEDULE OF ITEMS

Item Number	Item Description & Milepost	C or R[1]	Unit & M of M[2]	Quantity	Road Std. (W,D,S) [3]	Unit Allowance	Estimated Allowance
	M.P. 0.00-0.01						
301(01)	Untreated Aggregate Courses Furnish / Haul and place 15 C.Y. Crushed aggregate surfacing (19.5CY loose material) at milepost 0.00-0.01.		CY DQ	15		$ 25.00	$ 375.00
	FR 5242 Total Specified Road						**$ 735.00**
	FR 5245	**R**			**S**		
	M.P.0.00-0.08			0.08			
249(03)	Composite Road Construction Work includes preparing bed for installation. Shape road to ditch match typical drawing.		LS LSQ	1		$ 150.00	$ 150.00
	M.P. 0.00-0.01						
203(04)	Removal/ reinstall safety end section left end of pipe extension upon pipe bed preparation.		EA AQ	1		$ 150.00	$ 150.00
602(50)	Furnish & install 18"x 20' corrugated metal pipe with 2' band. (Riveted 16 Gauge)		LF AQ	20		$ 22.00	$ 440.00
301(01)	Untreated Aggregate Courses Furnish / Haul and place 15 C.Y. Crushed aggregate surfacing (19.5 CY loose material) at milepost 0.00-0.01.		CY DQ	15		$ 25.00	$ 375.00
	M.P. 0.01- 0.08						
249(03)	Widen entrance to left to transition road bed to US-45 and shape to crown 0.00-0.08. For local borrow excavate 40 C.Y. left side (0.06-0.08) for additional material and use as fill to cover pipe extension.		LS LSQ	40		$ 8.00	$ 320.00
204(52)	Unclassified borrow. Work includes hauling and placing 30 C.Y. (39 C.Y. loose) pit run borrow from North Jay Bird Pit		CY DQ	30		$ 12.00	$ 360.00
	FR 5245 Total Specified Road						**$ 1,795.00**
	FR 5246				**S**		

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QUEEN BEE STEWARDSHIP
SCHEDULE OF ITEMS

Item Number	Item Description & Milepost	C or R[1]	Unit & M of M[2]	Quantity	Road Std. (W,D,S) [3]	Unit Allowance	Estimated Allowance
	M.P. 0.00 - 0.03	R		0.03			
249(03)	Composite Road Construction Work includes preparing bed for installation. Shape road to crown to match typical drawing.		LS LSQ	1		$ 150.00	$ 150.00
	M.P. 0.00-0.01						
203(04)	Removal/ reinstall safety end section right end of pipe extension upon pipe bed preparation.		EA AQ	1		$ 150.00	$ 150.00
602 (50)	Furnish & install 18"x 20' corrugated metal pipe with 2' band. (Riveted 16 Gage)		LF AQ	20		$ 22.00	$ 440.00
301(01)	Untreated Aggregate Courses Furnish / Haul and place 15 C.Y. Crushed aggregate surfacing (19.5 CY loose material) at mile post 0.00-0.01.		CY DQ	15		$ 25.00	$ 375.00
	M.P. 0.01- 0.03						
249(03)	Widen entrance to right to transition road bed to US-45 and shape to crown 0.00-0.03. For local borrow excavate 40 C.Y. additional material left and use as fill to cover pipe extension.		LS LSQ	40		$ 5.00	$ 200.00
204(52)	Unclassified borrow. Work includes hauling and placing 30 C.Y. (39 C.Y. loose) pit run borrow from North Jay Bird Pit.		CY DQ	30		$ 12.00	$ 360.00
	M.P. 0.64-1.02	R			S		
249(03)	Composite Road Construction, reconstruct road to crown or out slope. Clearing and grubbing road and restoring ditches to all culverts to match typical drawings as directed by the Forest Service . Construct L turnaround to the right at poe.		DQ Mile	0.38		$ 3,800.00	$ 1,444.00
	M.P. 0.64- 0.66						
203(01)	Remove Beaver dam by increments to allow water to flow out without washing away US-45 and other roads down stream.		LS LSQ	1		$ 450.00	$ 450.00

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QUEEN BEE STEWARDSHIP
SCHEDULE OF ITEMS

Item Number	Item Description & Milepost	C or R[1]	Unit & M of M[2]	Quantity	Road Std. (W,D,S) [3]	Unit Allowance	Estimated Allowance
	M.P. 0.65						
203(04)	Remove existing culvert and dispose of culvert off of Government land.		EA AQ	1		$ 250.00	$250.00
249(03)	Prepare culvert bed. For pipe installation. Shape ditch to pipe inlet.		LS LSQ	1		$ 200.00	$ 200.00
602(75)	Furnish and install 36" x 30' high density polyethylene dual walled drainage pipe at milepost 0.65.		LF AQ	30		$ 52.00	$ 1,560.00
157 02	Soil Erosion Control, silt fence. Work includes furnishing and installing at the culvert as directed by the Forest Service.		Lin/Ft DQ	200		$ 3.00	$ 600.00
	M.P. 0.64 - 0.67						
249(03)	For local borrow excavate 78 C.Y. from hillside West(right) and East(left) of culvert 0.61-0.70 (150'L x 14' W x 1'D) to be placed under pipe and around muddy ground.		CY DQ	78		$ 8.00	$ 624.00
204(52)	Unclassified borrow, haul and place 69 C.Y. (90 C.Y. loose) pit run borrow from North Jay Bird pit for pipe installation and surfacing. (200'L x 14'W x 8"D) M.P. 0.64		CY DQ	69		$ 12.00	$ 828.00
	M.P. 0.71						
203(04)	Remove existing culvert and dispose of off of government land.		EA AQ	1		$ 100.00	$ 100.00
249(03)	Shape road to match typical drawing and shape ditch to pipe outlet.		LS LSQ	1		$ 200.00	$ 200.00
602(75)	Furnish and install 12" x 24' high density polyethylene dual walled drainage pipe .		LF AQ	24		$ 11.00	$ 264.00
249(03)	Local borrow excavate 30 C.Y. left at M.P. 0.66-0.70 and place a transitioning lift over pipe location . (100'L x 12'W x 8"D)		C.Y. DQ	30		$ 8.00	$ 240.00
204(52)	Unclassified borrow, haul and place15 C.Y. (19.5 C.Y. loose) pit run borrow from North Jay Bird pit for pipe installation and surfacing. (50'L x 12'W x 8"D)		C.Y. DQ	15		$ 12.00	$ 180.00

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QUEEN BEE STEWARDSHIP
SCHEDULE OF ITEMS

Item Number	Item Description & Milepost	C or R[1]	Unit & M of M[2]	Quantity	Road Std. (W,D,S) [3]	Unit Allowance	Estimated Allowance
	M.P. 0.84- 0.89						
204(01)	Excavation 74 C.Y. right at M.P. 0.82-0.85 And place over low area 250'L x 12'W x 8"D.		C.Y. DQ	74		$ 7.00	$ 518.00
	M.P. 0.93						
203(04)	Removal of Culvert at M.P. 0.93. Remove and dispose of culvert off of government land.		EA AQ	1		$ 100.00	$100.00
249(03)	Composite Road Reconstruction Work includes preparing culvert bed for installation. Shape road to match typical drawing and shape ditch to pipe outlet.		LS LSQ	1		$ 200.00	$ 200.00
602(75)	Furnish and install 12" x 24' high density polyethylene dual walled drainage pipe .		LF AQ	24		$ 11.00	$ 264.00
204(52)	Unclassified borrow, haul and place15 C.Y. (19.5 C.Y. loose) pit run borrow from North Jay Bird pit for pipe installation and surfacing. (50'L x 12'W x 8"D)		C.Y. DQ	15		$ 12.00	$ 180.00
	FR 5246 Total Specified Road						**$ 9,877.00**
	Grand Total Specified Roads						**$14,030.00**

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QUEEN BEE STEWARDSHIP
SPECIFIED ROAD NOTES

NOTE: The construction requirements for composite road construction slash disposal shall be Method A as described in the Supplemental Specification Item 249.

NOTE: Construct the road bed to conform to the typical detail as noted in the narrative description.

NOTE: There may be underground utility lines in unknown locations on this project. Call **MISS DIG three full working days** before any work begins. **(1-800-482-7171).**

NOTE: The entrances of FR's 5241, 5242, 5245, and 5246 have work related requirements explained by diagrams and notes included on **MDOT Permits 66031-32289-15-06315, 66031-032293-15-063015, 66031-032295-15-063015, and 66031-032297-15-063015.** *Work shall be completed to meet State Permit Requirements.*

NOTE: Additional lead-off ditches may be required at road segment locations to Allow for proper drainage needs and are included under typical blading and shaping requirements. Locations for placement shall be determined by the Forest Service.

NOTE: During gravel hauling operations safety signs shall be placed and hauling shall not commence until all signs have been put in place as directed by the Forest Service.

NOTE: **60 CY of crushed aggregate** is required for specified segments of this project. The normal compaction factor of 130% computes to a **loose volume of 78 CY**. ***There is no government source available for this material.*** Purchaser furnished material shall meet gradation requirements for the Michigan Department of State Highway Transportation designation 22A. Compact aggregate by operating spreading and hauling equipment over the full width of material.

NOTE: **234 CY of pit run borrow** is required for the specified road segments on this project. The normal compaction factor of 130% computes to a **loose volume of 304 CY**. This material shall be taken from the **North Jay Bird pit**, located at T46N, R39W, Sections 30 unless authorized by the Forest Service to change the pit run source. ***Some pit development may be required and is considered incidental to associated items.***

NOTE: **282 CY of local excavation** is required for the specified road segments on this project. Road work designating local excavation shall be built to conserve and redistribute topsoil to help prevent erosion after excavation has occurred. Borrow area cut slopes at excavation locations need to be tapered to a minimum of 2:1.

NOTE: Purchaser is required to **place top soil, adjacent/ overburden material** on all culvert extension slopes.

NOTE: High Density polyethylene drainage pipes shall be dual walled and have a smooth interior. **Minimum cover shall be 1.5 feet, as shown on typical drawing.**