















		P	ant-to-	Mat 1	Timef	rame		
			S	torage	мту			
1	> 2	> 3	4	> 5	6	> 7	> 8	۹
Loaded onto Truck at Plant	• MTV Dump Hoppe	• Elevat 1 r	or • Storage Hopper	• Remixing in Storage Hopper	• Elevator 2	Conveyor	• Paver Hopper	• Mat
			Non	-Storag	e MTV			

	_		
MTV PAVING	07-11	(9	ULATOR
Assumptions		Units	
Asphalt Density	1950	kg/m*9	3
Variables	-		
Paving width	5	m /	
Paving depth	63.5	mm	High lighted cells may be
Paving Speed	7	m/min	changed for different
Hopper Insert size	16.36	tons	paving scenerios
Truck Hall Amounts	16.36	tons	
Round Trip Time for trucks to plant	45	min	
Machine Performance Numbers			
Time from Front Hopper to paver Hopper With non Storage	20	sec	
Time from Front Hopper to paver Hopper With Storage	26	sec	
Time to unload truck if there is surge room both Units	1.20 min		
Time to unload truck if no room for surge for both units		min /	This is assuming no loss in surge, in
Time saved unloading if there is surge available		min/	other words there will be the same
Number of trucks difference in surge between non Storage and Storage		truzks	truck pulls away
Device Numbers		/	
Paving Numbers			
Time to change a truck in minutes replentishing surge		0000	
Total time before Storage Unit is out of material		min	
rotal time before non otorage is out of material		ium)	
Distance paved per truck load	26	m	
Ions per minute		tons/m	un
tons nei noor naving	200.0325	tons/h	DUI
Iruck needs in perfect world no surge		TOCKS	
nack needs in penect wond with surge	12.2	n ueka	and to be also an order on the second second
Time it actually takes to change trucks in minutes	2	min	possible for either unit. Times that you
Time it actually takes to change trocks in minutes		tope	can not dump because the system is full
Number of fauries, before you have to stop on Non Storage	N/A	toucke	make this number closer to the no surge
Number of tracks before you neve to stop of Nori Storage	11/4	u ucha	number







MATERIAL TRANSFER VEHICLE EFFECTIVENESS

Non-Contact, Non-Stop Paving

Offset Paving

Reduced Thermal & Particulate Segregation

Higher Mat Quality