

WIM System Field Calibration and Validation Handout Guide

Arkansas, SPS-2
SHRP ID – 050200

Validation Date: March 20, 2012



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1 Site Information

Site ID:	050200	State:	Arkansas
LTPP Region:	Southern	Configuration:	Loop – 2 Bending Plates-Loop
Controller Type:	iSINC	Sensor Type:	Bending Plate
Power:	AC	Communication:	Landline
Class Scheme:	LTPP Mar 06	CPU type/setup:	iSINC

2 Contact Information

Agency	Contact	Position	Phone	E-Mail
FHWA	Debbie Walker	COTR	202 493-3068	deborah.walker@dot.gov
FHWA	Frank Lester	Division Office	501-324-6428	lester.frank@dot.gov
RSC	Tim Martin	Project Manager	512-977-1837	tmartin@fugro.com
AR DOT	Mark Greenwood	LTPP Contact	501-569-2552	mark.greenwood@arkansashighways.com
AR DOT	Michael Benson	Traffic Contact	501-569-2185	michael.benson@arkansashighways.com
ARA	Dean Wolf	Task Leader	717-512-6638	dwolf@ara.com
ARA	Olga Selezneva	Project Manager	410-540-9949	oselezneva@ara.com

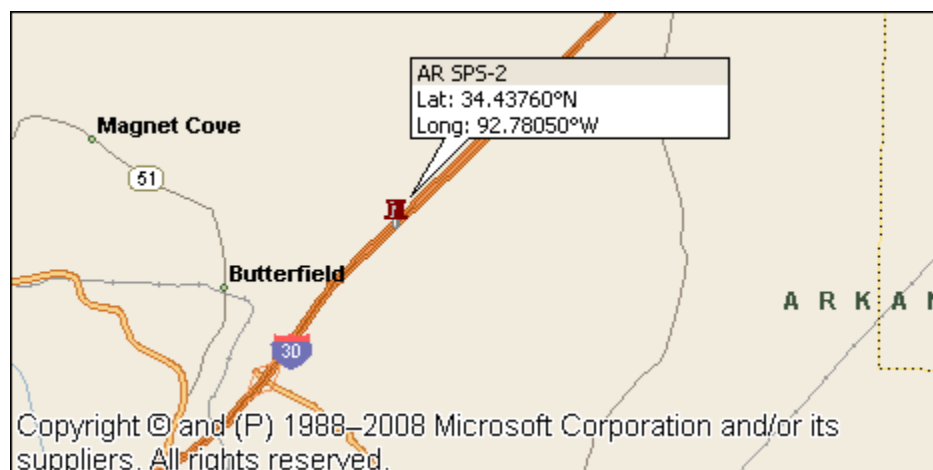
3 Schedule of Events

Date	Event	Location	Start Time
3/19/12	Travel	Bryant, AR	TBD
3/20/12	Test Truck Weigh/Measure/Inspection	CAT Scale	6:30 am
3/20/12	Equipment Assessment	WIM Site	8:00 am
3/20/12	Initial Performance Evaluation	WIM Site	8:30 am
3/20/12	System Test/Class and Speed Study	WIM Site	TBD
3/21/12	Test Truck Weigh (if required)	CAT Scale	6:30 am
3/21/12	Calibration/Validation (if required)	WIM Site	8:00 am
3/22/12	Travel	Camp Hill, PA	TBD

4 Maps

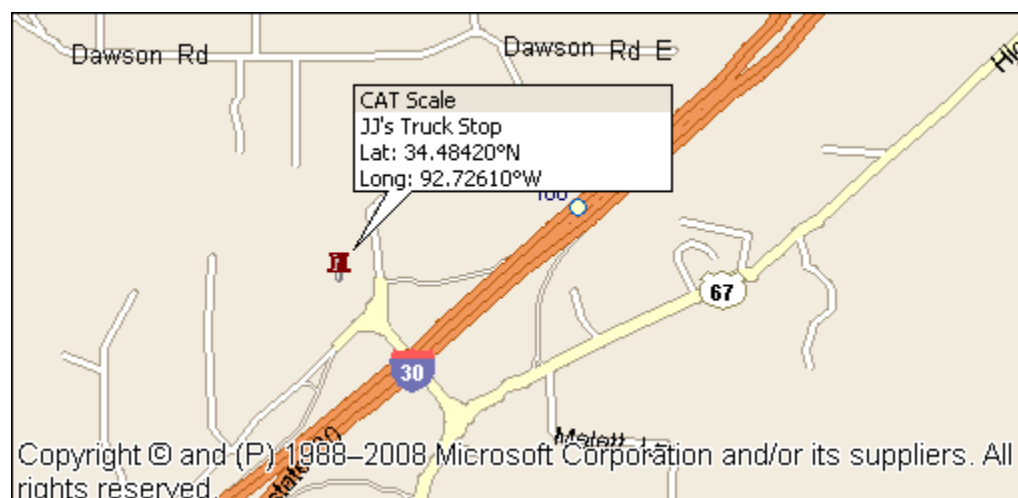
4.1 Site Location

Location:	I-30 North of SR74 Overpass		Dir:	WB
Latitude:	34.4376°	Longitude:	-92.7805°	



4.2 Truck Scale Location

Name:	JJ's Truck Stop	Location:	I-30, exit 106
Latitude:	34.4842°	Longitude:	-92.7261°



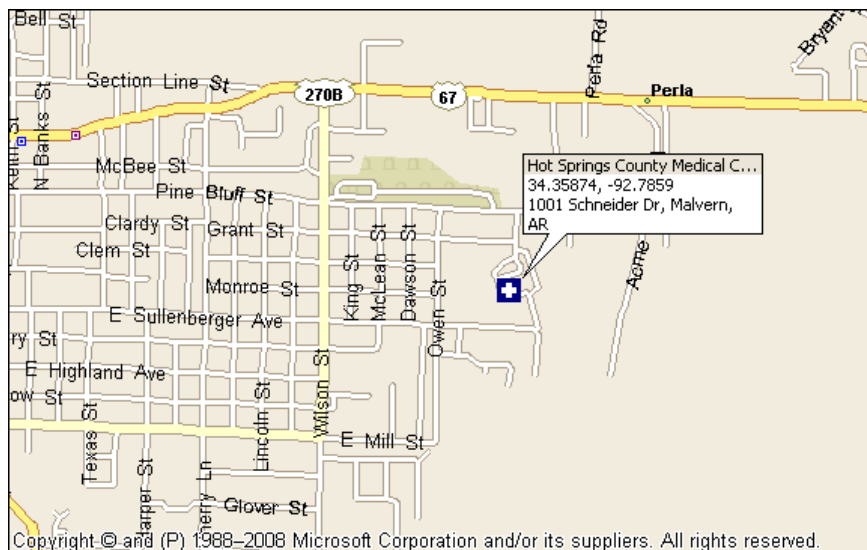
4.3 Airport Location

Name:	Little Rock International Airport	Location:	Little Rock, AR
Latitude:	34.7306°	Longitude:	-92.2225°



4.4 Hospital Location

Name:	Hot Springs County Medical Center		
Phone:	501-332-1000	Location:	1001 Schneider DR, Malvern, AR



5 Occupational Health and Safety Plan

All fieldwork in the right-of-way will be carried out when the ground visibility is more than 3 km, and when there is no accumulation of water, snow, or ice is on the pavement.

To the extent possible, inspection work during extremely high and low temperatures will be avoided. If the work becomes necessary, workers will be reminded to make appropriate precautions (wear protective clothing, drink fluids, and avoid prolonged exposure to severe weather conditions).

All personnel present on the right-of-way will wear approved safety gear (boots, reflective safety vest, and helmet).

The following items will be available at the site: a standard first-aid kit, a cell phone, and the location of nearby hospital(s).

6 Contingency Plan

If inclement weather is forecasted prior to mobilizing to the site, the Project Manager will make the final decision to postpone the Validation visit. The Task Leader is responsible for contacting all parties involved to inform them of the postponement. He is also responsible for rearranging travel.

Once the Validation team is on-site, the On-Site Task Leader is responsible for making decisions to delay or postpone the Validation. He will contact the Project Manager to make recommendations for completing the Validation, and the Project Manager will make the final decision to cancel or postpone. The On-Site Task Leader is responsible for contacting the COTR and all other participating parties to inform them of the delay or postponement.

Traffic Sheet 17 LTPP MONITORED TRAFFIC DATA WIM SITE INVENTORY	STATE CODE:	05
	SPS WIM ID:	050200
	DATE (mm/dd/yyyy)	3/20/2012

10. CABINET LOCATION

Same side of road as LTPP lane: N
 Distance from edge of traveled lane: 44 ft
 distance from system: 125 ft
 type: M

Cabinet access controlled by: Agency and LTPP
 Contact name: Roy Czinku Phone # 306-653-6627
 Alternate name: Mark Greenwood Phone # 501-569-2552

11. POWER

Distance to cabinet from drop: 550 ft
 Type: AC
 AC in cabinet? Y
 Service provider: _____ Phone # _____

12. TELEPHONE

Distance to cabinet from drop: 550 ft
 Type: landline
 Service provider: _____ Phone # _____

13. SYSTEM

Software and version no. iSINC
 Computer connection: LAN

14. TEST TRUCK TURNAROUND TIME

Duration: 17 minutes Distance: 18 miles

15. PHOTOS

Filename
 Power source: 050200_solar_panel_03_20_12.jpg
 Phone source: 050200_cellular_modem_03_20_12.jpg
 Cabinet exterior: 050200_cabinet_exterior_03_20_12.jpg
 Cabinet interior: 050200_cabinet_interior_front_03_20_12.jpg
 Weight sensors: 050200_cabinet_interior_rear_03_20_12.jpg
 050200_leading_WIM_sensor_03_20_12.jpg
 Other sensors: 0
 050200_leading_loop_03_20_12.jpg
 Downstream from sensors on LTPP lane: 050200_trailing_loop_03_20_12.jpg
 Upstream from sensors on LTPP lane: 050200_downstream_03_20_12.jpg

Traffic Sheet 18 LTPP MONITORED TRAFFIC DATA WIM SITE COORDINATION	STATE CODE: 05 SPS WIM ID: 050200 DATE (mm/dd/yyyy) 3/20/2012
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1. DATA PROCESSING

- a. Download: LTPP download
- b. Data review: LTPP
If state, how often? _____
- c. Data submission LTPP
If state how often? _____

2. EQUIPMENT

- a. Purchase LTPP
- b. Installation Included with purchase
- c. Maintenance Contract with purchase
Expiration Date _____
- d. Calibration LTPP
- e. Manuals and software control: LTPP
- f. Power
i. Type Underground ii. Payment State
- g. Communication
i. Type Landline ii. Payment State

3. PAVEMENT

- a. Type Portland Concrete Cement
- b. Allowable Rehabilitation activities Maintenance only
- c. Profile Site Markings Temporary

Traffic Sheet 18 LTPP MONITORED TRAFFIC DATA WIM SITE COORDINATION	STATE CODE: 05 SPS WIM ID: 050200 DATE (mm/dd/yyyy) 3/20/2012
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4. Onsite Activities

- a. WIM Validation Check advance notice required

_____ Days 2 Weeks

- b. Notice for straightedge and grinding check

_____ Days 2 Weeks

i. On site lead LTPP

ii. Accept grinding LTPP

- c. Authorization to calibrate site LTPP

- d. Calibration routine LTPP annually
Other: _____

- e. Test Vehicle Responsibilities

- i. Trucks

1st-	<u>Air suspension 3S2</u>	<u>LTPP</u>
2nd-	<u>Air Suspension 3S2</u>	<u>LTPP</u>
3rd-	_____	_____
4th-	_____	_____

ii. Loads LTPP

iii. Drivers LTPP

- f. Contractor(s) with prior experience in wim calibration in state:
IRD

- g. Access to cabinet Joint

- h. State personel required on site No

- i. Traffic control required No

- J. Enforcement coordination required No

Traffic Sheet 18 LTPP MONITORED TRAFFIC DATA WIM SITE COORDINATION	STATE CODE: 05 SPS WIM ID: 050200 DATE (mm/dd/yyyy) 3/20/2012
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5. SITE SPECIFIC CONDITIONS

- a. Funds and accountability: _____
- b. Reports: _____
- c. Other: _____
- c. Special Conditions _____

6. CONTACTS

- a. Equipment (operational status, access, etc.)
Name Roy Czinku Phone # 306-270-9492
Agency IRD
- b. Maintenance (equipment)
Name Roy Czinku Phone # 306-270-9492
Agency IRD
- c. Data Processing and pre-visit data
Name Roy Czinku Phone # 306-270-9492
Agency IRD
- d. Construction schedule and verification
Name _____ Phone # _____
Agency _____
- e. Test Vehicles (trucks, loads, drivers)
Name Ken McConnell Phone # 501-490-1481
Agency McConnell Heavy Hauling
- f. Traffic control
Name _____ Phone # _____
Agency _____
- g. Enforcement coordination
Name _____ Phone # _____
Agency _____
- h. Nearest static scale
Name JJ's Truck Stop Location: I-30, exit 106
Phone: 501-778-2295

Traffic Sheet 19 LTPP MONITORED TRAFFIC DATA CALIBRATION TEST TRUCK # <u>1</u>	STATE CODE: <u>05</u>
	SPS WIM ID: <u>050200</u>
	DATE (mm/dd/yyyy) <u>3/20/2012</u>

CALIBRATION TEST TRUCK - Primary

PART A

1. FHWA CLASS: 9 2. Number of axles: 5

3. AXLE WEIGHTS (lbs)

	a. Empty Truck Avg. Axle Weight	b. Pre-test Average Axle Weight	c. Post-Test Avg. Axle Weight	d. Direct or Calculated?
A		11020	10780	Direct
B		16325	16320	Direct
C		16325	16320	Direct
D		17115	17200	Direct
E		17115	17200	Direct
F				

4. GVW (same units as axles)

a. Empty GVW: _____
b. Average Pre-Test Loaded weight: 77900
c. Post Test Loaded Weight: 77820
d. Difference Post Test - Pre-Tests: 80

5. TRUCK DESCRIPTION

a. Tractor Cab Style: Conventional Sleeper Cab: Yes
photo: ☒

b. Make: Kenworth
c. Model: 360

d. Trailer Load Distribution Description:

concrete K barriers

photo: ☒

e. Tractor Tare weight - _____ - _____
f. Trailer Tare weight - _____ - _____
g. Axle Spacing - (feet and tenths)

A to B 19.5 B to C 4.3 C to D 37.5 D to E 4.5 E to F _____

h. Wheelbase - ☐ Measured _____ ☒ Computed 65.8
i. Kingpin offset from Axle B (units) 2 photo: ☐
j. Overall Length - ☐ Measured 70.4

Traffic Sheet 19 LTPP MONITORED TRAFFIC DATA CALIBRATION TEST TRUCK # <u>1</u>	STATE CODE: 05 SPS WIM ID: 050200 DATE (mm/dd/yyyy) 3/20/2012
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CALIBRATION TEST TRUCK - Primary

6. SUSPENSION

	a. Tire size	b.Suspension description (leaf, air # of leaves, taper or flat leaf, etc.)	c. photo
A	11R24.5	steel spring	☒
B	11R24.5 14PR	air	☒
C	11R24.5 16PR	air	☒
D	255 70R22.5	air	☒
E	255 70R22.5	air	☒
F			☐

d. Cold Tire Pressures (psi)- from right to left

Steering Axle	Axle B	Axle C	AxleD	AxleE	Axle F
	106.2	107.5	103.6	110.8	
122.1	106.5	106	102.1	110.2	
122.9	107	108.2	103.3	111.3	
	107.3	107.4	104.2	110	

PART B

Table 1 - Raw Measurements -Platform Scale

Axles	Meas.	Pre-test Weight	Instance	Instance	Post-test weight
A	I				
A+B	II				
A+B+C	III				
A+B+C+D	IV				
A+B+C+D+E(1)	V				
A+B+C+D+E+(F)(1)	VI				
B+C+D+E+(F)	VII				
C+D+E+(F)	VIII				
D+E+(F)	IX				
E+(F)	X				
(F)	XI				
A+B+C+D+E+(F)(2)	XII				

Traffic Sheet 19 LTPP MONITORED TRAFFIC DATA CALIBRATION TEST TRUCK # <u>1</u>	STATE CODE: 05 SPS WIM ID: 050200 DATE (mm/dd/yyyy) 3/20/2012
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CALIBRATION TEST TRUCK - Primary

Table 2 - Axle and GVW Computations -Platform Scale Pre-test

	1		2		Avg.
Axle A	I	0	VI-VII	0	0
Axle B	II-I	0	VII-VIII	0	0
Axle C	III-II	0	VIII-IX	0	0
Axle D	IV-III	0	IX-X	0	0
Axle E	V-IV	0	X-XI	0	0
Axle F	VI-V		XI		
GVW	VI	0	XII	0	0

Table 3- Axle and GVW Computations - Platform Scale - Instance -

	1		2		Avg.
Axle A	I	0	VI-VII	0	0
Axle B	II-I	0	VII-VIII	0	0
Axle C	III-II	0	VIII-IX	0	0
Axle D	IV-III	0	IX-X	0	0
Axle E	V-IV	0	X-XI	0	0
Axle F	VI-V		XI		
GVW	VI	0	XII	0	0

Table 4- Axle and GVW Computations - Platform Scale - Instance -

	1		2		Avg.
Axle A	I	0	VI-VII	0	0
Axle B	II-I	0	VII-VIII	0	0
Axle C	III-II	0	VIII-IX	0	0
Axle D	IV-III	0	IX-X	0	0
Axle E	V-IV	0	X-XI	0	0
Axle F	VI-V		XI		
GVW	VI	0	XII	0	0

Table 5- Axle and GVW Computations - Platform Scale Post-Test

	1		2		Avg.
Axle A	I	0	VI-VII	0	0
Axle B	II-I	0	VII-VIII	0	0
Axle C	III-II	0	VIII-IX	0	0
Axle D	IV-III	0	IX-X	0	0
Axle E	V-IV	0	X-XI	0	0
Axle F	VI-V		XI		
GVW	VI	0	XII	0	0

Traffic Sheet 19 LTPP MONITORED TRAFFIC DATA CALIBRATION TEST TRUCK # <u>1</u>	STATE CODE: 05 SPS WIM ID: 050200 DATE (mm/dd/yyyy) 3/20/2012
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CALIBRATION TEST TRUCK - Primary

Table 6 - Raw Data -Axle Scales - Pre-test

Pass	Axle A	Axle B	Axle C	Axle D	Axle E	Axle F	GVW
1	11000	16340	16340	17110	17110		77900
2	11040	16310	16310	17120	17120		77900
Avg.	11020	16325	16325	17115	17115		77900

Table 7- Raw Data- Axle scales -

Pass	Axle A	Axle B	Axle C	Axle D	Axle E	Axle F	GVW
Avg.							

Table 8- Raw Data- Axle scales -

Pass	Axle A	Axle B	Axle C	Axle D	Axle E	Axle F	GVW
Avg.							

Table 9 - Raw Data -Axle Scales - Post-test

Pass	Axle A	Axle B	Axle C	Axle D	Axle E	Axle F	GVW
1	10820	16300	16300	17210	17210		77840
2	10740	16340	16340	17190	17190		77800
Avg.	10780	16320	16320	17200	17200		77820

Validation Test Truck Run Set - Pre

Measured By: Kevin Trousdale

Verified By: Dean J. Wolf

Traffic Sheet 19 LTPP MONITORED TRAFFIC DATA CALIBRATION TEST TRUCK # 2	STATE CODE: 05
	SPS WIM ID: 050200
	DATE (mm/dd/yyyy) 3/20/2012

CALIBRATION TEST TRUCK - Secondary

PART A

1. FHWA CLASS: 9 2. Number of axles: 5

3. AXLE WEIGHTS (lbs)

	a. Empty Truck Avg. Axle Weight	b. Pre-test Average Axle Weight	c. Post-Test Avg. Axle Weight	d. Direct or Calculated?
A		10480	10270	Direct
B		14520	14515	Direct
C		14520	14515	Direct
D		15045	15130	Direct
E		15045	15130	Direct
F				

4. GVW (same units as axles)

a. Empty GVW: _____
b. Average Pre-Test Loaded weight: 69610
c. Post Test Loaded Weight: 69560
d. Difference Post Test - Pre-Tests: 50

5. TRUCK DESCRIPTION

a. Tractor Cab Style: Conventional Sleeper Cab: Yes
photo: ☒

b. Make: International
c. Model: 9300

d. Trailer Load Distribution Description:

concrete K barriers

photo: ☒

e. Tractor Tare weight - _____ - _____
f. Trailer Tare weight - _____ - _____
g. Axle Spacing - (feet and tenths)

A to B 18.8 B to C 4.5 C to D 35.7 D to E 4.3 E to F _____

h. Wheelbase - ☐ Measured _____ ☒ Computed 63.3
i. Kingpin offset from Axle B (units) 2.33 photo: ☐
j. Overall Length - ☒ Measured 67.8

Traffic Sheet 19 LTPP MONITORED TRAFFIC DATA CALIBRATION TEST TRUCK # <u>2</u>	STATE CODE: 05 SPS WIM ID: 050200 DATE (mm/dd/yyyy) 3/20/2012
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CALIBRATION TEST TRUCK - Secondary

6. SUSPENSION

	a. Tire size	b.Suspension description (leaf, air # of leaves, taper or flat leaf, etc.)	c. photo
A	11R24.5 16PR	steel spring	☒
B	11R24.5 16PR	air	☒
C	11R24.5 16PR	air	☒
D	255 70R22.5	air	☒
E	255 70R22.5	air	☒
F			☐

d. Cold Tire Pressures (psi)- from right to left

Steering Axle	Axle B	Axle C	AxleD	AxleE	Axle F
	101.1	99.9	85.9	100.6	
109.3	101.4	100.2	90.1	101	
110.3	102	100.4	88	101.3	
	102	101	91.4	102.1	

PART B

Table 1 - Raw Measurements -Platform Scale

Axles	Meas.	Pre-test Weight	Instance	Instance	Post-test weight
A	I				
A+B	II				
A+B+C	III				
A+B+C+D	IV				
A+B+C+D+E(1)	V				
A+B+C+D+E+(F)(1)	VI				
B+C+D+E+(F)	VII				
C+D+E+(F)	VIII				
D+E+(F)	IX				
E+(F)	X				
(F)	XI				
A+B+C+D+E+(F)(2)	XII				

Traffic Sheet 19 LTPP MONITORED TRAFFIC DATA CALIBRATION TEST TRUCK # <u>2</u>	STATE CODE: 05 SPS WIM ID: 050200 DATE (mm/dd/yyyy) 3/20/2012
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CALIBRATION TEST TRUCK - Secondary

Table 2 - Axle and GVW Computations -Platform Scale Pre-test

	1		2		Avg.
Axle A	I	0	VI-VII	0	0
Axle B	II-I	0	VII-VIII	0	0
Axle C	III-II	0	VIII-IX	0	0
Axle D	IV-III	0	IX-X	0	0
Axle E	V-IV	0	X-XI	0	0
Axle F	VI-V		XI		
GVW	VI	0	XII	0	0

Table 3- Axle and GVW Computations - Platform Scale - Instance -

	1		2		Avg.
Axle A	I	0	VI-VII	0	0
Axle B	II-I	0	VII-VIII	0	0
Axle C	III-II	0	VIII-IX	0	0
Axle D	IV-III	0	IX-X	0	0
Axle E	V-IV	0	X-XI	0	0
Axle F	VI-V		XI		
GVW	VI	0	XII	0	0

Table 4- Axle and GVW Computations - Platform Scale - Instance -

	1		2		Avg.
Axle A	I	0	VI-VII	0	0
Axle B	II-I	0	VII-VIII	0	0
Axle C	III-II	0	VIII-IX	0	0
Axle D	IV-III	0	IX-X	0	0
Axle E	V-IV	0	X-XI	0	0
Axle F	VI-V		XI		
GVW	VI	0	XII	0	0

Table 5- Axle and GVW Computations - Platform Scale Post-Test

	1		2		Avg.
Axle A	I	0	VI-VII	0	0
Axle B	II-I	0	VII-VIII	0	0
Axle C	III-II	0	VIII-IX	0	0
Axle D	IV-III	0	IX-X	0	0
Axle E	V-IV	0	X-XI	0	0
Axle F	VI-V		XI		
GVW	VI	0	XII	0	0

Traffic Sheet 19 LTPP MONITORED TRAFFIC DATA CALIBRATION TEST TRUCK # <u>2</u>	STATE CODE: 05 SPS WIM ID: 050200 DATE (mm/dd/yyyy) 3/20/2012
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CALIBRATION TEST TRUCK - Secondary

Table 6 - Raw Data -Axle Scales - Pre-test

Pass	Axle A	Axle B	Axle C	Axle D	Axle E	Axle F	GVW
1	10480	14510	14510	15050	15050		69600
2	10480	14530	14530	15040	15040		69620
Avg.	10480	14520	14520	15045	15045		69610

Table 7- Raw Data- Axle scales -

Pass	Axle A	Axle B	Axle C	Axle D	Axle E	Axle F	GVW
Avg.							

Table 8- Raw Data- Axle scales -

Pass	Axle A	Axle B	Axle C	Axle D	Axle E	Axle F	GVW
Avg.							

Table 9 - Raw Data -Axle Scales - Post-test

Pass	Axle A	Axle B	Axle C	Axle D	Axle E	Axle F	GVW
1	10260	14510	14510	15130	15130		69540
2	10280	14520	14520	15130	15130		69580
Avg.	10270	14515	14515	15130	15130		69560

Validation Test Truck Run Set - Pre

Measured By: Kevin Trousdale

Verified By: Dean J. Wolf

Traffic Sheet 19 LTPP MONITORED TRAFFIC DATA CALIBRATION TEST TRUCK # <u>1</u>	STATE CODE: <u>05</u>
	SPS WIM ID: <u>050200</u>
	DATE (mm/dd/yyyy) <u>3/21/2012</u>

CALIBRATION TEST TRUCK - Primary

PART A

1. FHWA CLASS: 9 2. Number of axles: 5

3. AXLE WEIGHTS (lbs)

	a. Empty Truck Avg. Axle Weight	b. Pre-test Average Axle Weight	c. Post-Test Avg. Axle Weight	d. Direct or Calculated?
A		10710	0	Direct
B		16380	0	Direct
C		16380	0	Direct
D		17210	0	Direct
E		17210	0	Direct
F				

4. GVW (same units as axles)

a. Empty GVW: _____
b. Average Pre-Test Loaded weight: 77890
c. Post Test Loaded Weight: 0
d. Difference Post Test - Pre-Tests: 77890

5. TRUCK DESCRIPTION

a. Tractor Cab Style: Conventional Sleeper Cab: Yes
photo: ☒

b. Make: Kenworth
c. Model: 360

d. Trailer Load Distribution Description:

concrete K barriers

photo: ☒

e. Tractor Tare weight - _____ - _____
f. Trailer Tare weight - _____ - _____
g. Axle Spacing - (feet and tenths)

A to B 19.5 B to C 4.3 C to D 37.5 D to E 4.5 E to F _____

h. Wheelbase - ☐ Measured _____ ☒ Computed 65.8
i. Kingpin offset from Axle B (units) 2 photo: ☐
j. Overall Length - ☐ Measured 70.4

Traffic Sheet 19 LTPP MONITORED TRAFFIC DATA CALIBRATION TEST TRUCK # <u>1</u>	STATE CODE: 05 SPS WIM ID: 050200 DATE (mm/dd/yyyy) 3/21/2012
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CALIBRATION TEST TRUCK - Primary

6. SUSPENSION

	a. Tire size	b.Suspension description (leaf, air # of leaves, taper or flat leaf, etc.)	c. photo
A	11R24.5	steel spring	☒
B	11R24.5 14PR	air	☒
C	11R24.5 16PR	air	☒
D	255 70R22.5	air	☒
E	255 70R22.5	air	☒
F			☐

d. Cold Tire Pressures (psi)- from right to left

Steering Axle	Axle B	Axle C	AxleD	AxleE	Axle F
	106.2	107.5	103.6	110.8	
122.1	106.5	106	102.1	110.2	
122.9	107	108.2	103.3	111.3	
	107.3	107.4	104.2	110	

PART B

Table 1 - Raw Measurements -Platform Scale

Axles	Meas.	Pre-test Weight	Instance	Instance	Post-test weight
A	I				
A+B	II				
A+B+C	III				
A+B+C+D	IV				
A+B+C+D+E(1)	V				
A+B+C+D+E+(F)(1)	VI				
B+C+D+E+(F)	VII				
C+D+E+(F)	VIII				
D+E+(F)	IX				
E+(F)	X				
(F)	XI				
A+B+C+D+E+(F)(2)	XII				

Traffic Sheet 19 LTPP MONITORED TRAFFIC DATA CALIBRATION TEST TRUCK # <u>1</u>	STATE CODE: 05 SPS WIM ID: 050200 DATE (mm/dd/yyyy) 3/21/2012
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CALIBRATION TEST TRUCK - Primary

Table 2 - Axle and GVW Computations -Platform Scale Pre-test

	1		2		Avg.
Axle A	I	0	VI-VII	0	0
Axle B	II-I	0	VII-VIII	0	0
Axle C	III-II	0	VIII-IX	0	0
Axle D	IV-III	0	IX-X	0	0
Axle E	V-IV	0	X-XI	0	0
Axle F	VI-V		XI		
GVW	VI	0	XII	0	0

Table 3- Axle and GVW Computations - Platform Scale - Instance -

	1		2		Avg.
Axle A	I	0	VI-VII	0	0
Axle B	II-I	0	VII-VIII	0	0
Axle C	III-II	0	VIII-IX	0	0
Axle D	IV-III	0	IX-X	0	0
Axle E	V-IV	0	X-XI	0	0
Axle F	VI-V		XI		
GVW	VI	0	XII	0	0

Table 4- Axle and GVW Computations - Platform Scale - Instance -

	1		2		Avg.
Axle A	I	0	VI-VII	0	0
Axle B	II-I	0	VII-VIII	0	0
Axle C	III-II	0	VIII-IX	0	0
Axle D	IV-III	0	IX-X	0	0
Axle E	V-IV	0	X-XI	0	0
Axle F	VI-V		XI		
GVW	VI	0	XII	0	0

Table 5- Axle and GVW Computations - Platform Scale Post-Test

	1		2		Avg.
Axle A	I	0	VI-VII	0	0
Axle B	II-I	0	VII-VIII	0	0
Axle C	III-II	0	VIII-IX	0	0
Axle D	IV-III	0	IX-X	0	0
Axle E	V-IV	0	X-XI	0	0
Axle F	VI-V		XI		
GVW	VI	0	XII	0	0

Traffic Sheet 19 LTPP MONITORED TRAFFIC DATA CALIBRATION TEST TRUCK # <u>1</u>	STATE CODE: 05 SPS WIM ID: 050200 DATE (mm/dd/yyyy) 3/21/2012
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CALIBRATION TEST TRUCK - Primary

Table 6 - Raw Data -Axle Scales - Pre-test

Pass	Axle A	Axle B	Axle C	Axle D	Axle E	Axle F	GVW
1	10720	16370	16370	17210	17210		77880
2	10700	16390	16390	17210	17210		77900
Avg.	10710	16380	16380	17210	17210		77890

Table 7- Raw Data- Axle scales -

Pass	Axle A	Axle B	Axle C	Axle D	Axle E	Axle F	GVW
Avg.							

Table 8- Raw Data- Axle scales -

Pass	Axle A	Axle B	Axle C	Axle D	Axle E	Axle F	GVW
Avg.							

Table 9 - Raw Data -Axle Scales - Post-test

Pass	Axle A	Axle B	Axle C	Axle D	Axle E	Axle F	GVW
Avg.							

Validation Test Truck Run Set - Cal 1

Measured By: Kevin Trousdale

Verified By: Dean J. Wolf

Traffic Sheet 19 LTPP MONITORED TRAFFIC DATA CALIBRATION TEST TRUCK # 2	STATE CODE: 05 SPS WIM ID: 050200 DATE (mm/dd/yyyy) 3/21/2012
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CALIBRATION TEST TRUCK - Secondary

PART A

1. FHWA CLASS: 9 2. Number of axles: 5
3. AXLE WEIGHTS (lbs)

	a. Empty Truck Avg. Axle Weight	b. Pre-test Average Axle Weight	c. Post-Test Avg. Axle Weight	d. Direct or Calculated?
A		10320	0	Direct
B		14495	0	Direct
C		14495	0	Direct
D		15150	0	Direct
E		15150	0	Direct
F				

4. GVW (same units as axles)

- a. Empty GVW: _____
- b. Average Pre-Test Loaded weight: 69610
- c. Post Test Loaded Weight: 0
- d. Difference Post Test - Pre-Tests: 69610

5. TRUCK DESCRIPTION

- a. Tractor Cab Style: Conventional Sleeper Cab: Yes
photo: ☒

- b. Make: International
- c. Model: 9300

d. Trailer Load Distribution Description:

concrete K barriers

photo: ☒

- e. Tractor Tare weight - _____ - _____
- f. Trailer Tare weight - _____ - _____
- g. Axle Spacing - (feet and tenths)

A to B 18.8 B to C 4.5 C to D 35.7 D to E 4.3 E to F _____

- h. Wheelbase - ☐ Measured _____ ☒ Computed 63.3
- i. Kingpin offset from Axle B (units) 2.33 photo: ☐
- j. Overall Length - ☒ Measured 67.8

Traffic Sheet 19 LTPP MONITORED TRAFFIC DATA CALIBRATION TEST TRUCK # <u>2</u>	STATE CODE: 05 SPS WIM ID: 050200 DATE (mm/dd/yyyy) 3/21/2012
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CALIBRATION TEST TRUCK - Secondary

6. SUSPENSION

	a. Tire size	b.Suspension description (leaf, air # of leaves, taper or flat leaf, etc.)	c. photo
A	11R24.5 16PR	steel spring	☒
B	11R24.5 16PR	air	☒
C	11R24.5 16PR	air	☒
D	255 70R22.5	air	☒
E	255 70R22.5	air	☒
F			☐

d. Cold Tire Pressures (psi)- from right to left

Steering Axle	Axle B	Axle C	AxleD	AxleE	Axle F
	101.1	99.9	85.9	100.6	
109.3	101.4	100.2	90.1	101	
110.3	102	100.4	88	101.3	
	102	101	91.4	102.1	

PART B

Table 1 - Raw Measurements -Platform Scale

Axles	Meas.	Pre-test Weight	Instance	Instance	Post-test weight
A	I				
A+B	II				
A+B+C	III				
A+B+C+D	IV				
A+B+C+D+E(1)	V				
A+B+C+D+E+(F)(1)	VI				
B+C+D+E+(F)	VII				
C+D+E+(F)	VIII				
D+E+(F)	IX				
E+(F)	X				
(F)	XI				
A+B+C+D+E+(F)(2)	XII				

Traffic Sheet 19 LTPP MONITORED TRAFFIC DATA CALIBRATION TEST TRUCK # <u>2</u>	STATE CODE: 05 SPS WIM ID: 050200 DATE (mm/dd/yyyy) 3/21/2012
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CALIBRATION TEST TRUCK - Secondary

Table 2 - Axle and GVW Computations -Platform Scale Pre-test

	1		2		Avg.
Axle A	I	0	VI-VII	0	0
Axle B	II-I	0	VII-VIII	0	0
Axle C	III-II	0	VIII-IX	0	0
Axle D	IV-III	0	IX-X	0	0
Axle E	V-IV	0	X-XI	0	0
Axle F	VI-V		XI		
GVW	VI	0	XII	0	0

Table 3- Axle and GVW Computations - Platform Scale - Instance -

	1		2		Avg.
Axle A	I	0	VI-VII	0	0
Axle B	II-I	0	VII-VIII	0	0
Axle C	III-II	0	VIII-IX	0	0
Axle D	IV-III	0	IX-X	0	0
Axle E	V-IV	0	X-XI	0	0
Axle F	VI-V		XI		
GVW	VI	0	XII	0	0

Table 4- Axle and GVW Computations - Platform Scale - Instance -

	1		2		Avg.
Axle A	I	0	VI-VII	0	0
Axle B	II-I	0	VII-VIII	0	0
Axle C	III-II	0	VIII-IX	0	0
Axle D	IV-III	0	IX-X	0	0
Axle E	V-IV	0	X-XI	0	0
Axle F	VI-V		XI		
GVW	VI	0	XII	0	0

Table 5- Axle and GVW Computations - Platform Scale Post-Test

	1		2		Avg.
Axle A	I	0	VI-VII	0	0
Axle B	II-I	0	VII-VIII	0	0
Axle C	III-II	0	VIII-IX	0	0
Axle D	IV-III	0	IX-X	0	0
Axle E	V-IV	0	X-XI	0	0
Axle F	VI-V		XI		
GVW	VI	0	XII	0	0

Traffic Sheet 19 LTPP MONITORED TRAFFIC DATA CALIBRATION TEST TRUCK # <u>2</u>	STATE CODE: 05 SPS WIM ID: 050200 DATE (mm/dd/yyyy) 3/21/2012
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CALIBRATION TEST TRUCK - Secondary

Table 6 - Raw Data -Axle Scales - Pre-test

Pass	Axle A	Axle B	Axle C	Axle D	Axle E	Axle F	GVW
1	10340	14490	14490	15150	15150		69620
2	10300	14500	14500	15150	15150		69600
Avg.	10320	14495	14495	15150	15150		69610

Table 7- Raw Data- Axle scales -

Pass	Axle A	Axle B	Axle C	Axle D	Axle E	Axle F	GVW
Avg.							

Table 8- Raw Data- Axle scales -

Pass	Axle A	Axle B	Axle C	Axle D	Axle E	Axle F	GVW
Avg.							

Table 9 - Raw Data -Axle Scales - Post-test

Pass	Axle A	Axle B	Axle C	Axle D	Axle E	Axle F	GVW
Avg.							

Validation Test Truck Run Set - Cal 1

Measured By: Kevin Trousdale

Verified By: Dean J. Wolf

Traffic Sheet 19 LTPP MONITORED TRAFFIC DATA CALIBRATION TEST TRUCK # <u>1</u>	STATE CODE: <u>05</u> SPS WIM ID: <u>050200</u> DATE (mm/dd/yyyy) <u>3/21/2012</u>
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CALIBRATION TEST TRUCK - Primary

PART A

1. FHWA CLASS: 9 2. Number of axles: 5

3. AXLE WEIGHTS (lbs)

	a. Empty Truck Avg. Axle Weight	b. Pre-test Average Axle Weight	c. Post-Test Avg. Axle Weight	d. Direct or Calculated?
A		10710	10470	Direct
B		16380	16290	Direct
C		16380	16290	Direct
D		17210	17210	Direct
E		17210	17210	Direct
F				

4. GVW (same units as axles)

a. Empty GVW: _____
b. Average Pre-Test Loaded weight: 77890
c. Post Test Loaded Weight: 77470
d. Difference Post Test - Pre-Tests: 420

5. TRUCK DESCRIPTION

a. Tractor Cab Style: Conventional Sleeper Cab: Yes
photo: ☒

b. Make: Kenworth
c. Model: 360

d. Trailer Load Distribution Description:

concrete K barriers

photo: ☒

e. Tractor Tare weight - _____ - _____
f. Trailer Tare weight - _____ - _____
g. Axle Spacing - (feet and tenths)

A to B 19.5 B to C 4.3 C to D 37.5 D to E 4.5 E to F _____

h. Wheelbase - ☐ Measured _____ ☒ Computed 65.8
i. Kingpin offset from Axle B (units) 2 photo: ☐
j. Overall Length - ☐ Measured 70.4

Traffic Sheet 19 LTPP MONITORED TRAFFIC DATA CALIBRATION TEST TRUCK # <u>1</u>	STATE CODE: 05 SPS WIM ID: 050200 DATE (mm/dd/yyyy) 3/21/2012
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CALIBRATION TEST TRUCK - Primary

6. SUSPENSION

	a. Tire size	b.Suspension description (leaf, air # of leaves, taper or flat leaf, etc.)	c. photo
A	11R24.5	steel spring	☒
B	11R24.5 14PR	air	☒
C	11R24.5 16PR	air	☒
D	255 70R22.5	air	☒
E	255 70R22.5	air	☒
F			☐

d. Cold Tire Pressures (psi)- from right to left

Steering Axle	Axle B	Axle C	AxleD	AxleE	Axle F
	106.2	107.5	103.6	110.8	
122.1	106.5	106	102.1	110.2	
122.9	107	108.2	103.3	111.3	
	107.3	107.4	104.2	110	

PART B

Table 1 - Raw Measurements -Platform Scale

Axles	Meas.	Pre-test Weight	Instance	Instance	Post-test weight
A	I				
A+B	II				
A+B+C	III				
A+B+C+D	IV				
A+B+C+D+E(1)	V				
A+B+C+D+E+(F)(1)	VI				
B+C+D+E+(F)	VII				
C+D+E+(F)	VIII				
D+E+(F)	IX				
E+(F)	X				
(F)	XI				
A+B+C+D+E+(F)(2)	XII				

Traffic Sheet 19 LTPP MONITORED TRAFFIC DATA CALIBRATION TEST TRUCK # <u>1</u>	STATE CODE: 05 SPS WIM ID: 050200 DATE (mm/dd/yyyy) 3/21/2012
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CALIBRATION TEST TRUCK - Primary

Table 2 - Axle and GVW Computations -Platform Scale Pre-test

	1		2		Avg.
Axle A	I	0	VI-VII	0	0
Axle B	II-I	0	VII-VIII	0	0
Axle C	III-II	0	VIII-IX	0	0
Axle D	IV-III	0	IX-X	0	0
Axle E	V-IV	0	X-XI	0	0
Axle F	VI-V		XI		
GVW	VI	0	XII	0	0

Table 3- Axle and GVW Computations - Platform Scale - Instance -

	1		2		Avg.
Axle A	I	0	VI-VII	0	0
Axle B	II-I	0	VII-VIII	0	0
Axle C	III-II	0	VIII-IX	0	0
Axle D	IV-III	0	IX-X	0	0
Axle E	V-IV	0	X-XI	0	0
Axle F	VI-V		XI		
GVW	VI	0	XII	0	0

Table 4- Axle and GVW Computations - Platform Scale - Instance -

	1		2		Avg.
Axle A	I	0	VI-VII	0	0
Axle B	II-I	0	VII-VIII	0	0
Axle C	III-II	0	VIII-IX	0	0
Axle D	IV-III	0	IX-X	0	0
Axle E	V-IV	0	X-XI	0	0
Axle F	VI-V		XI		
GVW	VI	0	XII	0	0

Table 5- Axle and GVW Computations - Platform Scale Post-Test

	1		2		Avg.
Axle A	I	0	VI-VII	0	0
Axle B	II-I	0	VII-VIII	0	0
Axle C	III-II	0	VIII-IX	0	0
Axle D	IV-III	0	IX-X	0	0
Axle E	V-IV	0	X-XI	0	0
Axle F	VI-V		XI		
GVW	VI	0	XII	0	0

Traffic Sheet 19 LTPP MONITORED TRAFFIC DATA CALIBRATION TEST TRUCK # <u>1</u>	STATE CODE: 05 SPS WIM ID: 050200 DATE (mm/dd/yyyy) 3/21/2012
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CALIBRATION TEST TRUCK - Primary

Table 6 - Raw Data -Axle Scales - Pre-test

Pass	Axle A	Axle B	Axle C	Axle D	Axle E	Axle F	GVW
1	10720	16370	16370	17210	17210		77880
2	10700	16390	16390	17210	17210		77900
Avg.	10710	16380	16380	17210	17210		77890

Table 7- Raw Data- Axle scales -

Pass	Axle A	Axle B	Axle C	Axle D	Axle E	Axle F	GVW
Avg.							

Table 8- Raw Data- Axle scales -

Pass	Axle A	Axle B	Axle C	Axle D	Axle E	Axle F	GVW
Avg.							

Table 9 - Raw Data -Axle Scales - Post-test

Pass	Axle A	Axle B	Axle C	Axle D	Axle E	Axle F	GVW
1	10440	16310	16310	17200	17200		77460
2	10500	16270	16270	17220	17220		77480
Avg.	10470	16290	16290	17210	17210		77470

Validation Test Truck Run Set - Post

Measured By: Kevin Trousdale

Verified By: Dean J. Wolf

Traffic Sheet 19 LTPP MONITORED TRAFFIC DATA CALIBRATION TEST TRUCK # 2	STATE CODE: 05 SPS WIM ID: 050200 DATE (mm/dd/yyyy) 3/21/2012
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CALIBRATION TEST TRUCK - Secondary

PART A

1. FHWA CLASS: 9 2. Number of axles: 5

3. AXLE WEIGHTS (lbs)

	a. Empty Truck Avg. Axle Weight	b. Pre-test Average Axle Weight	c. Post-Test Avg. Axle Weight	d. Direct or Calculated?
A		10320	10010	Direct
B		14495	14440	Direct
C		14495	14440	Direct
D		15150	15150	Direct
E		15150	15150	Direct
F				

4. GVW (same units as axles)

a. Empty GVW: _____
b. Average Pre-Test Loaded weight: 69610
c. Post Test Loaded Weight: 69190
d. Difference Post Test - Pre-Tests: 420

5. TRUCK DESCRIPTION

a. Tractor Cab Style: Conventional Sleeper Cab: Yes
photo: ☒

b. Make: International
c. Model: 9300

d. Trailer Load Distribution Description:

concrete K barriers

photo: ☒

e. Tractor Tare weight - _____ - _____
f. Trailer Tare weight - _____ - _____
g. Axle Spacing - (feet and tenths)

A to B 18.8 B to C 4.5 C to D 35.7 D to E 4.3 E to F _____

h. Wheelbase - ☐ Measured _____ ☒ Computed 63.3
i. Kingpin offset from Axle B (units) 2.33 photo: ☐
j. Overall Length - ☒ Measured 67.8

Traffic Sheet 19 LTPP MONITORED TRAFFIC DATA CALIBRATION TEST TRUCK # <u>2</u>	STATE CODE: 05 SPS WIM ID: 050200 DATE (mm/dd/yyyy) 3/21/2012
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CALIBRATION TEST TRUCK - Secondary

6. SUSPENSION

	a. Tire size	b.Suspension description (leaf, air # of leaves, taper or flat leaf, etc.)	c. photo
A	11R24.5 16PR	steel spring	☒
B	11R24.5 16PR	air	☒
C	11R24.5 16PR	air	☒
D	255 70R22.5	air	☒
E	255 70R22.5	air	☒
F			☐

d. Cold Tire Pressures (psi)- from right to left

Steering Axle	Axle B	Axle C	AxleD	AxleE	Axle F
	101.1	99.9	85.9	100.6	
109.3	101.4	100.2	90.1	101	
110.3	102	100.4	88	101.3	
	102	101	91.4	102.1	

PART B

Table 1 - Raw Measurements -Platform Scale

Axles	Meas.	Pre-test Weight	Instance	Instance	Post-test weight
A	I				
A+B	II				
A+B+C	III				
A+B+C+D	IV				
A+B+C+D+E(1)	V				
A+B+C+D+E+(F)(1)	VI				
B+C+D+E+(F)	VII				
C+D+E+(F)	VIII				
D+E+(F)	IX				
E+(F)	X				
(F)	XI				
A+B+C+D+E+(F)(2)	XII				

Traffic Sheet 19 LTPP MONITORED TRAFFIC DATA CALIBRATION TEST TRUCK # <u>2</u>	STATE CODE: 05 SPS WIM ID: 050200 DATE (mm/dd/yyyy) 3/21/2012
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CALIBRATION TEST TRUCK - Secondary

Table 2 - Axle and GVW Computations -Platform Scale Pre-test

	1		2		Avg.
Axle A	I	0	VI-VII	0	0
Axle B	II-I	0	VII-VIII	0	0
Axle C	III-II	0	VIII-IX	0	0
Axle D	IV-III	0	IX-X	0	0
Axle E	V-IV	0	X-XI	0	0
Axle F	VI-V		XI		
GVW	VI	0	XII	0	0

Table 3- Axle and GVW Computations - Platform Scale - Instance -

	1		2		Avg.
Axle A	I	0	VI-VII	0	0
Axle B	II-I	0	VII-VIII	0	0
Axle C	III-II	0	VIII-IX	0	0
Axle D	IV-III	0	IX-X	0	0
Axle E	V-IV	0	X-XI	0	0
Axle F	VI-V		XI		
GVW	VI	0	XII	0	0

Table 4- Axle and GVW Computations - Platform Scale - Instance -

	1		2		Avg.
Axle A	I	0	VI-VII	0	0
Axle B	II-I	0	VII-VIII	0	0
Axle C	III-II	0	VIII-IX	0	0
Axle D	IV-III	0	IX-X	0	0
Axle E	V-IV	0	X-XI	0	0
Axle F	VI-V		XI		
GVW	VI	0	XII	0	0

Table 5- Axle and GVW Computations - Platform Scale Post-Test

	1		2		Avg.
Axle A	I	0	VI-VII	0	0
Axle B	II-I	0	VII-VIII	0	0
Axle C	III-II	0	VIII-IX	0	0
Axle D	IV-III	0	IX-X	0	0
Axle E	V-IV	0	X-XI	0	0
Axle F	VI-V		XI		
GVW	VI	0	XII	0	0

Traffic Sheet 19 LTPP MONITORED TRAFFIC DATA CALIBRATION TEST TRUCK # <u>2</u>	STATE CODE: 05 SPS WIM ID: 050200 DATE (mm/dd/yyyy) 3/21/2012
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CALIBRATION TEST TRUCK - Secondary

Table 6 - Raw Data -Axle Scales - Pre-test

Pass	Axle A	Axle B	Axle C	Axle D	Axle E	Axle F	GVW
1	10340	14490	14490	15150	15150		69620
2	10300	14500	14500	15150	15150		69600
Avg.	10320	14495	14495	15150	15150		69610

Table 7- Raw Data- Axle scales -

Pass	Axle A	Axle B	Axle C	Axle D	Axle E	Axle F	GVW
Avg.							

Table 8- Raw Data- Axle scales -

Pass	Axle A	Axle B	Axle C	Axle D	Axle E	Axle F	GVW
Avg.							

Table 9 - Raw Data -Axle Scales - Post-test

Pass	Axle A	Axle B	Axle C	Axle D	Axle E	Axle F	GVW
1	10000	14450	14450	15150	15150		69200
2	10020	14430	14430	15150	15150		69180
Avg.	10010	14440	14440	15150	15150		69190

Validation Test Truck Run Set - Post

Measured By: Kevin Trousdale

Verified By: Dean J. Wolf

Traffic Sheet 21 (Wheel Load) LTPP MONITORED TRAFFIC DATA WIM SYSTEM TRUCK RECORDS										STATE CODE: 05 SPS WIM ID: 050200 DATE: (mm/dd/yyyy): 3/20/2012									
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Pvmt Temp	Radar speed	Truck	Pass	Time	Record No.	WIM Speed	Axle A	Axle B	Axle C	Axle D	Axle E	Axle F	GVW	A-B space	B-C space	C-D space	D - E space	E - F space	Axle Length	Overall Length
77.2	55	1	1	11:21:06	23551	55.0	12.0	17.2	16.4	19.5	17.2		82.3	19.7	4.4	37.6	4.5		66.2	73.0
77.2	55	2	1	11:21:11	23552	55.0	11.4	15.2	15.7	15.2	14.6		72.0	18.9	4.4	35.9	4.5		63.7	70.0
78.5	60	1	2	11:36:54	23711	60.0	11.5	17.2	17.2	19.1	16.4		81.4	19.6	4.4	37.3	4.5		65.8	72.0
78.5	59	2	2	11:36:56	23712	60.0	11.4	15.1	15.8	16.3	14.7		73.4	18.8	4.4	35.8	4.5		63.5	71.0
77.9	65	1	3	11:52:24	23863	65.0	10.9	16.7	17.0	16.6	16.8		78.0	19.7	4.4	37.2	4.6		65.9	74.0
77.9	65	2	3	11:52:29	23864	66.0	10.9	14.5	14.9	15.7	15.6		71.7	18.8	4.4	35.6	4.5		63.3	69.0
78.2	56	1	4	12:08:12	24036	55.0	12.0	16.6	16.2	17.7	17.1		79.6	19.6	4.4	37.4	4.4		65.8	74.0
78.2	55	2	4	12:08:14	24037	55.0	11.4	14.4	16.1	14.7	14.2		70.9	18.9	4.4	36.1	4.5		63.9	72.0
79.0	60	1	5	12:48:44	24443	60.0	11.1	16.4	17.8	16.3	16.6		78.0	19.7	4.3	37.2	4.5		65.7	73.0
79.0	60	2	5	12:48:47	24444	60.0	11.1	14.7	15.1	16.2	15.0		72.1	18.8	4.4	35.8	4.5		63.5	71.0
73.6	65	1	6	13:04:07	24595	65.0	11.3	16.8	16.9	17.9	17.7		80.6	19.6	4.4	37.2	4.5		65.7	73.0
73.6	66	2	6	13:04:13	24597	65.0	10.3	14.5	15.1	16.4	14.4		70.7	18.7	4.4	35.5	4.4		63.0	70.0
75.5	56	1	7	13:20:00	24754	55.0	11.8	16.9	16.5	14.6	16.9		76.7	19.7	4.4	37.5	4.5		66.1	73.0
75.5	57	2	7	13:20:05	24755	57.0	11.5	15.0	15.4	13.8	15.7		71.3	18.8	4.4	36.0	4.5		63.7	71.0
77.0	60	1	8	13:35:56	24915	60.0	11.6	16.6	17.3	15.3	16.3		77.1	19.6	4.4	37.2	4.5		65.7	74.0
77.0	59	2	8	13:35:58	24916	59.0	11.4	15.1	15.1	15.1	15.2		72.0	18.8	4.4	35.9	4.5		63.6	72.0
79.3	65	1	9	13:51:48	25058	65.0	11.3	16.3	16.9	15.8	16.7		77.0	19.6	4.4	37.2	4.5		65.7	74.0
79.3	63	2	9	13:51:54	25060	64.0	10.3	14.8	14.5	15.5	14.8		70.3	18.8	4.4	35.7	4.6		63.5	72.0
77.3	55	1	10	14:07:46	25211	55.0	12.0	16.5	15.9	19.9	17.7		82.1	19.6	4.4	37.4	4.6		66.0	72.0
77.3	56	2	10	14:07:57	25212	57.0	11.4	15.3	15.6	17.6	15.2		75.0	18.8	4.4	35.9	4.5		63.6	72.0
78.1	59	1	11	14:23:48	25359	60.0	11.6	17.1	17.8	16.9	17.1		80.5	19.6	4.3	37.2	4.4		65.5	73.0
78.1	60	2	11	14:23:51	25360	61.0	10.6	14.9	15.8	15.2	14.8		71.3	18.8	4.4	35.8	4.5		63.5	71.0
68.2	63	1	12	14:39:00	25509	63.0	10.9	16.5	17.5	17.6	16.5		78.9	19.7	4.3	37.3	4.6		65.9	73.0
68.2	54	2	12	14:39:31	25515	54.0	10.9	13.9	14.7	14.9	14.3		68.7	18.9	4.4	35.9	4.5		63.7	70.0

Recorded By: ar

Verified By: djw

Run Set Pre

Traffic Sheet 21 (Wheel Load) LTPP MONITORED TRAFFIC DATA WIM SYSTEM TRUCK RECORDS										STATE CODE: 05 SPS WIM ID: 050200 DATE: (mm/dd/yyyy): 3/20/2012									
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Pvmt Temp	Radar speed	Truck	Pass	Time	Record No.	WIM Speed	Axle A	Axle B	Axle C	Axle D	Axle E	Axle F	GVW	A-B space	B-C space	C-D space	D - E space	E - F space	Axle Length	Overall Length
67.8	55	1	13	14:55:52	25680	55.0	11.5	16.2	16.0	17.4	17.1		78.1	19.6	4.4	37.5	4.5		66.0	72.0
67.8	54	2	13	14:55:54	25681	53.0	10.9	14.0	15.0	14.5	14.5		68.8	18.9	4.4	35.8	4.5		63.6	70.0
68.3	58	1	14	15:11:27	25829	61.0	11.1	16.7	17.3	17.4	16.6		79.0	19.7	4.3	37.4	4.6		66.0	72.0
68.3	55	2	14	15:11:32	25831	60.0	10.8	14.9	14.8	16.8	14.8		72.0	18.8	4.4	35.9	4.5		63.6	70.0
67.4	65	1	15	15:27:23	26013	65.0	11.4	16.7	17.0	18.4	18.1		81.5	19.7	4.4	37.2	4.5		65.8	72.0
67.4	65	2	15	15:27:25	26014	65.0	10.8	15.2	15.3	17.3	15.5		74.1	18.8	4.4	35.7	4.5		63.4	69.0
66.6	55	1	16	15:43:03	26168	55.0	11.2	16.7	16.2	19.5	17.1		80.8	19.7	4.4	37.5	4.5		66.1	72.0
66.6	54	2	16	15:43:05	26169	54.0	10.8	14.8	15.6	16.2	15.0		72.3	18.8	4.4	35.7	4.5		63.4	69.0
65.1	61	1	17	15:58:34	26338	62.0	10.9	16.5	17.2	16.9	16.3		77.7	19.7	4.3	37.4	4.6		66.0	72.0
65.1	56	2	17	15:58:44	26341	59.0	10.6	14.8	14.8	15.1	15.1		70.3	18.8	4.4	36.0	4.5		63.7	69.0
64.7	62	1	18	16:15:20	26546	64.0	10.8	16.4	17.0	18.6	17.3		80.0	19.7	4.4	37.3	4.6		66.0	71.0
64.7	60	2	18	16:15:22	26547	62.0	10.2	14.9	14.7	15.1	14.3		69.3	18.8	4.4	35.9	4.6		63.7	69.0
65.0	55	1	19	16:32:39	26737	56.0	11.5	16.9	16.0	16.1	17.2		77.6	19.6	4.4	37.5	4.4		65.9	72.0
65.0	55	2	19	16:32:42	26738	56.0	11.1	15.3	15.1	16.2	14.4		72.1	18.7	4.4	35.9	4.5		63.5	69.0
64.6	63	1	20	16:49:35	26909	61.0	11.4	16.4	17.0	15.0	16.6		76.5	19.7	4.3	37.4	4.5		65.9	71.0
64.6	60	2	20	16:49:52	26916	59.0	10.9	14.7	15.2	15.0	14.9		70.7	18.8	4.4	35.9	4.5		63.6	69.0

Recorded By: _____ ar

Verified By: _____ djw

Run Set _____ Pre

Traffic Sheet 21 (Wheel Load) LTPP MONITORED TRAFFIC DATA WIM SYSTEM TRUCK RECORDS	STATE CODE: 05 SPS WIM ID: 050200 DATE: (mm/dd/yyyy): 3/21/2012
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Pvmt Temp	Radar speed	Truck	Pass	Time	Record No.	WIM Speed	Axle A	Axle B	Axle C	Axle D	Axle E	Axle F	GVW	A-B space	B-C space	C-D space	D - E space	E - F space	Axle Length	Overall Length
61.5	55	1	1	7:43:34	31461	56.0	10.7	16.0	15.9	16.9	16.7		76.2	19.7	4.4	37.4	4.5		66.0	70.0
61.5	56	2	1	7:43:57	31463	56.0	10.2	14.3	14.5	15.6	13.3		67.9	18.9	4.4	36.1	4.6		64.0	67.0
61.1	61	1	2	7:59:58	31567	60.0	11.0	16.3	16.7	18.5	15.8		78.4	19.7	4.3	37.3	4.5		65.8	69.0
61.1	60	2	2	8:00:19	31570	60.0	10.1	13.8	14.3	14.6	13.6		66.3	18.7	4.4	36.0	4.5		63.6	67.0
61.6	66	1	3	8:16:27	31680	65.0	10.5	15.9	16.1	15.1	17.1		74.6	19.6	4.4	37.2	4.5		65.7	69.0
61.6	69	2	3	8:16:32	31681	67.0	9.6	14.3	15.0	15.5	15.5		69.8	18.7	4.4	35.5	4.4		63.0	66.0
60.7	55	1	4	8:32:14	31790	55.0	10.6	15.6	15.3	18.7	16.8		76.9	19.7	4.4	37.5	4.6		66.2	70.0
60.7	57	2	4	8:32:24	31791	57.0	10.4	14.1	14.6	13.7	14.3		67.1	18.8	4.4	36.0	4.5		63.7	67.0
61.5	61	1	5	8:48:12	31893	61.0	10.8	15.9	16.3	16.6	16.0		75.6	19.6	4.4	37.4	4.6		66.0	69.0
61.5	62	2	5	8:48:18	31894	63.0	10.1	14.3	14.2	15.0	14.2		67.7	18.8	4.4	35.8	4.5		63.5	67.0
62.8	64	1	6	9:04:00	31999	65.0	10.1	16.0	15.9	16.6	16.6		75.2	19.6	4.4	37.3	4.6		65.9	69.0
62.8	65	2	6	9:04:07	32000	65.0	9.9	14.3	14.7	16.1	15.5		70.4	18.8	4.4	35.6	4.5		63.3	67.0

Recorded By: _____ ar _____	Verified By: _____ 0 _____	Run Set _____ Cal 1 _____
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Traffic Sheet 21 (Wheel Load) LTPP MONITORED TRAFFIC DATA WIM SYSTEM TRUCK RECORDS										STATE CODE: 05 SPS WIM ID: 050200 DATE: (mm/dd/yyyy): 3/21/2012									
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Pvmt Temp	Radar speed	Truck	Pass	Time	Record No.	WIM Speed	Axle A	Axle B	Axle C	Axle D	Axle E	Axle F	GVW	A-B space	B-C space	C-D space	D - E space	E - F space	Axle Length	Overall Length
61.5	55	1	1	7:43:34	31461	56.0	10.7	16.0	15.9	16.9	16.7		76.2	19.7	4.4	37.4	4.5		66.0	70.0
61.5	56	2	1	7:43:57	31463	56.0	10.2	14.3	14.5	15.6	13.3		67.9	18.9	4.4	36.1	4.6		64.0	67.0
61.1	61	1	2	7:59:58	31567	60.0	11.0	16.3	16.7	18.5	15.8		78.4	19.7	4.3	37.3	4.5		65.8	69.0
61.1	60	2	2	8:00:19	31570	60.0	10.1	13.8	14.3	14.6	13.6		66.3	18.7	4.4	36.0	4.5		63.6	67.0
61.6	66	1	3	8:16:27	31680	65.0	10.5	15.9	16.1	15.1	17.1		74.6	19.6	4.4	37.2	4.5		65.7	69.0
61.6	69	2	3	8:16:32	31681	67.0	9.6	14.3	15.0	15.5	15.5		69.8	18.7	4.4	35.5	4.4		63.0	66.0
60.7	55	1	4	8:32:14	31790	55.0	10.6	15.6	15.3	18.7	16.8		76.9	19.7	4.4	37.5	4.6		66.2	70.0
60.7	57	2	4	8:32:24	31791	57.0	10.4	14.1	14.6	13.7	14.3		67.1	18.8	4.4	36.0	4.5		63.7	67.0
61.5	61	1	5	8:48:12	31893	61.0	10.8	15.9	16.3	16.6	16.0		75.6	19.6	4.4	37.4	4.6		66.0	69.0
61.5	62	2	5	8:48:18	31894	63.0	10.1	14.3	14.2	15.0	14.2		67.7	18.8	4.4	35.8	4.5		63.5	67.0
62.8	64	1	6	9:04:00	31999	65.0	10.1	16.0	15.9	16.6	16.6		75.2	19.6	4.4	37.3	4.6		65.9	69.0
62.8	65	2	6	9:04:07	32000	65.0	9.9	14.3	14.7	16.1	15.5		70.4	18.8	4.4	35.6	4.5		63.3	67.0
61.4	56	1	7	9:50:20	32305	55.0	10.8	15.6	16.0	17.6	16.6		76.7	19.6	4.4	37.4	4.5		65.9	70.0
61.4	56	2	7	9:50:30	32307	57.0	10.0	14.0	14.7	13.9	14.0		66.6	18.8	4.4	35.9	4.5		63.6	67.0
59.5	61	1	8	10:07:07	32457	61.0	10.6	16.2	16.6	17.6	16.1		77.0	19.7	4.4	37.2	4.5		65.8	69.0
59.5	56	2	8	10:07:15	32459	57.0	10.1	14.1	14.4	13.3	13.5		65.5	18.9	4.4	36.1	4.5		63.9	67.0
60.3	65	2	9	10:23:29	32567	64.0	9.8	14.5	14.3	16.6	14.1		69.3	18.8	4.4	35.8	4.5		63.5	67.0
62.6	55	1	9	10:39:10	32683	57.0	10.6	16.2	15.7	17.5	16.8		76.9	19.6	4.4	37.4	4.5		65.9	70.0
62.6	57	2	10	10:39:13	32684	54.0	10.8	13.9	15.0	15.5	13.5		68.6	18.9	4.4	35.8	4.6		63.7	67.0
61.9	60	1	10	10:54:48	32818	60.0	10.8	16.1	16.3	16.1	16.5		75.8	19.7	4.3	37.3	4.4		65.7	69.0
61.9	59	2	11	10:55:15	32822	58.0	10.4	14.3	14.7	13.2	14.0		66.7	18.8	4.4	36.0	4.5		63.7	67.0
59.8	66	1	11	11:10:33	32938	65.0	10.2	15.9	15.9	15.1	17.5		74.6	19.7	4.4	37.3	4.6		66.0	69.0
59.8	66	2	12	11:10:37	32939	66.0	10.5	15.0	15.4	16.3	15.5		72.6	18.8	4.4	35.6	4.5		63.3	67.0
60.4	56	1	12	11:26:06	33049	55.0	11.2	16.6	15.5	15.5	16.6		75.4	19.7	4.4	37.7	4.5		66.3	70.0

Recorded By: ar

Verified By: dw

Run Set Post

Traffic Sheet 21 (Wheel Load) LTPP MONITORED TRAFFIC DATA WIM SYSTEM TRUCK RECORDS										STATE CODE: 05 SPS WIM ID: 050200 DATE: (mm/dd/yyyy): 3/21/2012									
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Pvmt Temp	Radar speed	Truck	Pass	Time	Record No.	WIM Speed	Axle A	Axle B	Axle C	Axle D	Axle E	Axle F	GVW	A-B space	B-C space	C-D space	D - E space	E - F space	Axle Length	Overall Length
60.4	55	2	13	11:26:25	33052	55.0	10.5	14.6	14.6	14.3	13.6		67.5	18.9	4.4	36.0	4.5		63.8	67.0
62.2	58	1	13	11:44:59	33175	58.0	11.5	16.9	16.8	19.4	16.3		80.9	19.6	4.4	37.3	4.5		65.8	70.0
62.2	62	2	14	11:45:42	33185	61.0	10.0	14.0	14.3	15.6	14.1		67.9	18.8	4.4	36.0	4.6		63.8	67.0
60.3	65	1	14	12:29:40	33529	65.0	10.3	16.8	16.5	17.5	17.5		78.6	19.6	4.4	37.3	4.5		65.8	69.0
60.3	66	2	15	12:29:49	33531	64.0	9.8	14.3	14.4	16.8	15.5		70.8	18.8	4.4	35.7	4.5		63.4	67.0
58.6	60	1	15	12:44:59	33636	56.0	11.0	15.8	15.6	17.7	16.8		76.9	19.7	4.4	37.6	4.5		66.2	70.0
58.6	58	2	16	12:45:10	33638	57.0	10.4	14.4	15.0	15.9	13.8		69.4	18.8	4.4	36.0	4.5		63.7	67.0
59.3	62	2	17	13:00:39	33743	63.0	10.0	14.9	14.2	15.3	14.7		69.0	18.8	4.4	35.9	4.5		63.6	67.0
58.0	66	1	16	13:16:03	33859	65.0	10.1	16.0	15.8	16.5	16.6		75.0	19.7	4.4	37.2	4.5		65.8	69.0
58.0	66	2	18	13:16:07	33860	66.0	9.5	14.4	14.0	15.5	14.6		67.9	18.8	4.4	35.6	4.5		63.3	67.0
58.9	54	2	19	13:32:12	33964	54.0	10.2	14.3	14.5	14.8	14.0		67.8	18.8	4.4	35.9	4.6		63.7	67.0
57.9	58	1	17	13:47:53	34094	60.0	10.1	15.9	16.2	14.7	16.2		73.2	19.6	4.3	37.3	4.5		65.7	69.0
57.9	65	2	20	13:48:09	34097	62.0	10.0	14.8	14.7	15.0	14.7		69.2	18.8	4.4	35.8	4.5		63.5	67.0
58.7	65	1	18	14:03:17	34233	65.0	10.5	15.9	16.3	18.1	17.1		78.0	19.7	4.4	37.2	4.5		65.8	69.0
58.7	67	2	21	14:03:22	34234	67.0	9.7	14.2	14.8	15.7	14.8		69.2	18.8	4.4	35.8	4.5		63.5	67.0
58.2	58	1	19	14:18:53	34352	56.0	10.7	16.0	15.4	15.2	17.0		74.3	19.6	4.4	37.6	4.5		66.1	70.0
58.2	60	2	22	14:19:15	34356	57.0	10.7	14.5	14.7	14.1	13.8		67.7	18.8	4.4	36.0	4.5		63.7	67.0
56.5	61	1	20	14:34:25	34486	61.0	10.5	15.9	16.0	15.4	16.0		73.8	19.7	4.4	37.3	4.5		65.9	69.0
56.5	60	2	23	14:34:29	34487	61.0	10.0	13.8	14.4	14.9	14.3		67.4	18.9	4.4	36.0	4.5		63.8	67.0

Recorded By: _____ ar

Verified By: _____ dw

Run Set _____ Post _____

Traffic Sheet 22 LTPP MONITORED TRAFFIC DATA SITE EQUIPMENT ASSESSMENT LTPP LANE ONLY	STATE CODE: 05 SPS WIM ID: 050200 STATE ASSIGNED ID 0 DATE (mm/dd/yyyy) 3/20/2012
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9. IN ROAD SENSORS:

Describe any deficiencies regarding the sensor installation. Indicate sensors that show any signs of being broken, severely worn, missing, removed, or loose. List photos on Sheet 24 for

the equipment is operating within the manufacturer's tolerances. None of the in-road sensors show signs of damage or excessive wear and appear to be fully secured in the pavement.

TRUCK OBSERVATIONS

- 10.** Indicate any irregular truck behaviors such as bouncing, swerving, or braking near the weighing area (within 40 meters). Note the distance from the weighing sensors.

A visual observation of the trucks as they approach, traverse, and leave the sensor area did not indicate any adverse dynamics that would affect the accuracy of the WIM system. The trucks appear to track down the center of the lane.

Minimum 15 minute or 35 truck sample video sample for pavement interaction deficiencies:

Tape Filename: _____
Time: From: _____ To: _____

Traffic Sheet 22 LTPP MONITORED TRAFFIC DATA SITE EQUIPMENT ASSESSMENT LTPP LANE ONLY	STATE CODE: 05 SPS WIM ID: 050200 STATE ASSIGNED ID 0 DATE (mm/dd/yyyy) 3/20/2012
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11. CLASSIFICATION VERIFICATION VIDEO:

TAPE 1- NAME: _____

Interval	Filename	From	To
1	_____	_____	_____
2	_____	_____	_____
3	_____	_____	_____
4	_____	_____	_____
5	_____	_____	_____
6	_____	_____	_____
7	_____	_____	_____
8	_____	_____	_____

TAPE 2- NAME: _____

Interval	Filename	From	To
1	_____	_____	_____
2	_____	_____	_____
3	_____	_____	_____
4	_____	_____	_____
5	_____	_____	_____
6	_____	_____	_____
7	_____	_____	_____
8	_____	_____	_____

TAPE 3- NAME: _____

Interval	Filename	From	To
1	_____	_____	_____
2	_____	_____	_____
3	_____	_____	_____
4	_____	_____	_____
5	_____	_____	_____
6	_____	_____	_____
7	_____	_____	_____
8	_____	_____	_____

Traffic Sheet 22 LTPP MONITORED TRAFFIC DATA SITE EQUIPMENT ASSESSMENT LTPP LANE ONLY	STATE CODE: 05 SPS WIM ID: 050200 STATE ASSIGNED ID 0 DATE (mm/dd/yyyy) 3/20/2012
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SYSTEM ACCURACY TESTS

12. CONDUCT THE FOLLOWING SYSTEM ACCURACY TESTS EITHER ON- SITE OR IN OFFICE

Speed Accuracy - Complete Sheet 20 and attach.

Average radar speed	<u>64.4</u> mph	Average WIM Speed	<u>63.9</u> mph
Mean Difference	<u>-0.5</u> mph	SD of mean	<u>1.4</u>
Posted Speed Limit	<u>65</u> mph		
Speed Range	15th percentile - <u>62</u> mph	85th percentile-	<u>68</u> mph

Spacing and Weight - Complete Sheet 21 and attach.

Average distance between axles of drive tandem		<u> </u> feet
% error from 4.25 ft (industry average)	OR	<u>4.39</u> ft (WIM system average)
= <u>3.2</u> %		
Average front axle weight for Class 9 vehicles		<u> </u> lbs
% error from 10.3 kips (industry average) OR		<u>11.2</u> lbs (known site value)
= <u>8.4</u> %		

SUPPORT EQUIPMENT STRUCTURES

17. Indicate any deficiencies with any site equipment other than the in-road sensors. List all photos on the Sheet 24 for each occurrence.

Cabinet/Foundation None ☒

no cabinet or foundation deficiencies

Pull Boxes None ☒

no pull box deficiencies

Mast None ☒

no service mast deficiencies

Solar Panels None ☒

no solar panel deficiencies

Traffic Sheet 22 LTPP MONITORED TRAFFIC DATA SITE EQUIPMENT ASSESSMENT LTPP LANE ONLY	STATE CODE: 05 SPS WIM ID: 050200 STATE ASSIGNED ID 0 DATE (mm/dd/yyyy) 3/20/2012
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Telephone D-Mark Box None ☒

no telephone d-mark box deficiencies

Power Service Box None ☒

no power service box deficiencies

Grounding None ☒

no grounding deficiencies

Conduit None ☒

no conduit deficiencies

STATIC AND DYNAMIC ELECTRONIC EQUIPMENT TESTS

- 18.** Complete and attach a Sheet 22 addendum applicable to the installed road equipment.

ADDITIONAL COMMENTS

All values for the WIM sensors and inductive loops were within tolerances. Electronic tests of the power and communication devices indicated that they were operating normally.

Assessor Kevin Trousdale - ARA

Traffic Sheet 22 Addendum - Weighpad LTPP MONITORED TRAFFIC DATA SITE EQUIPMENT ASSESSMENT LTPP LANE ONLY	STATE CODE:	05
	SPS WIM ID:	050200
	STATE ASSIGNED ID	0
	DATE (mm/dd/yyyy)	3/20/2012

STATIC EQUIPMENT VALUES (SYSTEM OFF)

1. POWER

a. Solar Panel		WATTS		VDC
b. Equipment Power	<u>122.3</u>	VAC	<u>11.79</u>	VDC
c. Battery 1	<u>13.47</u>	VDC		
d. Battery 2		VDC		
e. Regulated	<u>13.47</u>	VDC		
f. Power Supply	<u>124.5</u>	VAC	<u>11.95</u>	VDC
g. System Input	<u>124.5</u>	VAC		VDC
h. Modem Power		VAC	<u>11.78</u>	VDC
i. Telephone	<u>44.9</u>	VDC		

2. LOOP SENSORS

	Resistance		Inductance		Shield	
a. Leading	<u>1.4</u>	Ω	<u>121.4</u>	μh	<u>inf</u>	M Ω
b. Trailing	<u>1.7</u>	Ω	<u>180.6</u>	μh	<u>inf</u>	M Ω

3. WEIGHPAD SENSORS

	Input		Output		Shield	
a. Leading	<u>0.986k</u>	Ω	<u>0.853k</u>	Ω	<u>inf</u>	Ω
b. Trailing	<u>0.709k</u>	Ω	<u>0.854k</u>	Ω	<u>inf</u>	Ω

DYNAMIC EQUIPMENT VALUES (SYSTEM ON)

4. LOOP SENSORS

	Frequency	
a. Leading	<u>136.1</u>	KHz
b. Trailing	<u>98.16</u>	KHz

5. WEIGHPAD SENSORS

	Zero Point	
a. Leading	<u>7.9</u>	mV
b. Trailing	<u>8.0</u>	mV

Assessor Kevin Trousdale - ARA

Traffic Sheet 24A LTPP MONITORED TRAFFIC DATA SITE PHOTO LOG - Equipment	STATE CODE: 05 SPS WIM ID: 050200 DATE (mm/dd/yyyy) 3/20/2012
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Item	Description	Filename
1	Power Source	050200_solar_panel_03_20_12.jpg
2	Telephone Source	050200_cellular_modem_03_20_12.jpg
3	Cabinet Exterior	050200_cabinet_exterior_03_20_12.jpg
4	Cabinet Interior - Front	050200_cabinet_interior_front_03_20_12.jpg
5	Cabinet Interior - Rear	050200_cabinet_interior_rear_03_20_12.jpg
6	Leading weight sensor	050200_leading_WIM_sensor_03_20_12.jpg
7	Trailing weight sensor	050200_trailing_WIM_sensor_03_20_12.jpg
8	Leading classification sensor	
9	Trailing classification sensor	
10	Leading loop sensor	050200_leading_loop_03_20_12.jpg
11	Trailing loop sensor	050200_trailing_loop_03_20_12.jpg
12	Downstream from site	050200_downstream_03_20_12.jpg
13	Upstream from site	050200_upstream_03_20_12.jpg
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Traffic Sheet 24B LTPP MONITORED TRAFFIC DATA SITE PHOTO LOG - Test Trucks	STATE CODE: 05 SPS WIM ID: 050200 DATE (mm/dd/yyyy) 3/20/2012
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Item	Description	Filename
1	Tractor, Truck #1	050200_Truck_1_Tractor_03_20_12.jpg
2	Trailer/Load, Truck #1	050200_Truck_1_Trailer_03_20_12.jpg
3	Kingpin Offset, Truck #1	
4	Suspension A, Truck #1	050200_Truck_1_Suspension_1_03_20_12.jpg
5	Suspension B, Truck #1	050200_Truck_1_Suspension_2_03_20_12.jpg
6	Suspension C, Truck #1	050200_Truck_1_Suspension_3_03_20_12.jpg
7	Suspension D, Truck #1	050200_Truck_1_Suspension_4_03_20_12.jpg
8	Suspension E, Truck #1	050200_Truck_1_Suspension_5_03_20_12.jpg
9	Suspension F, Truck #1	
10	Tractor, Truck #2	050200_Truck_2_Tractor_03_20_12.jpg
11	Trailer/Load, Truck #2	050200_Truck_2_Trailer_03_20_12.jpg
12	Kingpin Offset, Truck #2	
13	Suspension A, Truck #2	050200_Truck_2_Suspension_1_03_20_12.jpg
14	Suspension B, Truck #2	050200_Truck_2_Suspension_2_03_20_12.jpg
15	Suspension C, Truck #2	050200_Truck_2_Suspension_3_03_20_12.jpg
16	Suspension D, Truck #2	050200_Truck_2_Suspension_4_03_20_12.jpg
17	Suspension E, Truck #2	050200_Truck_2_Suspension_5_03_20_12.jpg
18	Suspension F, Truck #2	
19	Tractor, Truck #3	
20	Trailer/Load, Truck #3	
21	Kingpin Offset, Truck #3	
22	Suspension A, Truck #3	
23	Suspension B, Truck #3	
24	Suspension C, Truck #3	
25	Suspension D, Truck #3	
26	Suspension E, Truck #3	
27	Suspension F, Truck #3	
28	Scale	
29		
30		

RECORDED BY: _____ **Dean J Wolf**