

WIM System Field Calibration and Validation Handout Guide

Tennessee, SPS-6
SHRP ID – 470600

Validation Date: February 15, 2011



Table of Contents

1	Site Information	3
2	Contact Information	3
3	Schedule of Events.....	3
4	Maps.....	4
4.1	Site Location	4
4.2	Truck Scale Location.....	4
4.3	Airport Location	5
4.4	Hospital Location	5
5	Occupational Health and Safety Plan.....	6
6	Contingency Plan	6

1 Site Information

Site ID:	470600	State:	Tennessee
LTPP Region:	Southern	Configuration:	Loop-quartz-quartz-loop
Controller Type:	iSINC	Sensor Type:	Quartz Piezo
Power:	AC	Communication:	Landline
Class Scheme:	LTPP Mar 06	CPU type/setup:	

2 Contact Information

Agency	Contact	Position	Phone	E-Mail
FHWA	Debbie Walker	COTR	202 493-3068	deborah.walker@dot.gov
FHWA	John H. Steele	FHWA Division Office	615-781-5777	johnh.steele@dot.gov
RSC	Mark Gardner	Project Manager	512-977-1800	mgardner@fugro.com
TN DOT	James Maxwell	LTPP Contact	615-741-2641	james.maxwell@state.tn.us
TN DOT	Steve Allen	Project Planning Dir.	615-741-3687	steve.allen@state.tn.us
ARA	Dean Wolf	Task Leader	717-512-6638	dwolf@ara.com
ARA	Olga Selezneva	Project Manager	410-540-9949	oselezneva@ara.com
Truck Scale	Ben Moyer	Manager	731-422-0901	

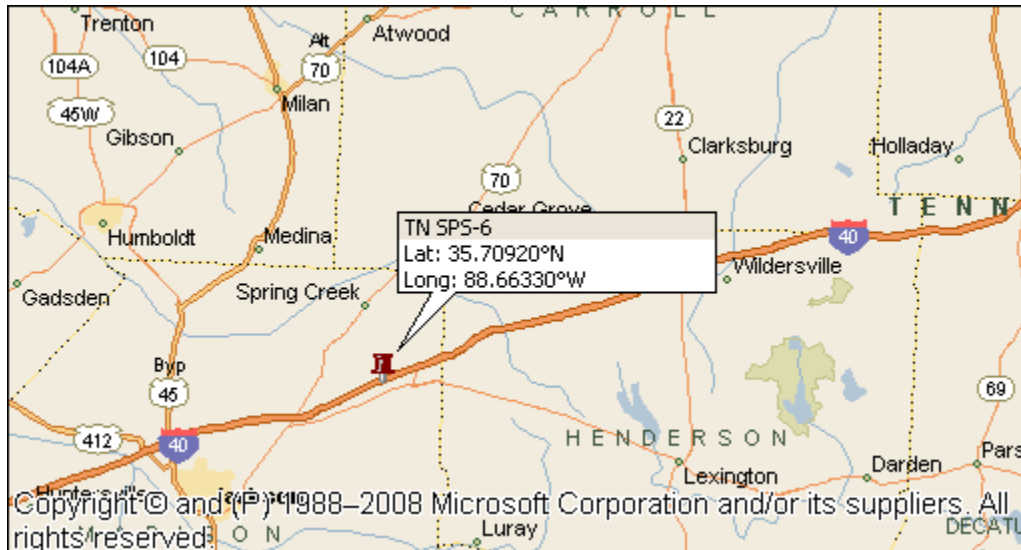
3 Schedule of Events

Date	Event	Location	Start Time
2/14/11	Travel	Jackson, TN	TBD
2/15/11	Test Truck Weigh/Measure/Inspection	Love's Country Store	6:00 am
2/15/11	Equipment Assessment	WIM Site	7:00 am
2/15/11	Initial Performance Evaluation	WIM Site	7:30 am
2/15/11	System Test/Class and Speed Study	WIM Site	TBD
2/16/11	Calibration/Validation	WIM Site	TBD
2/17/11	Travel	Camp Hill, PA	TBD

4 Maps

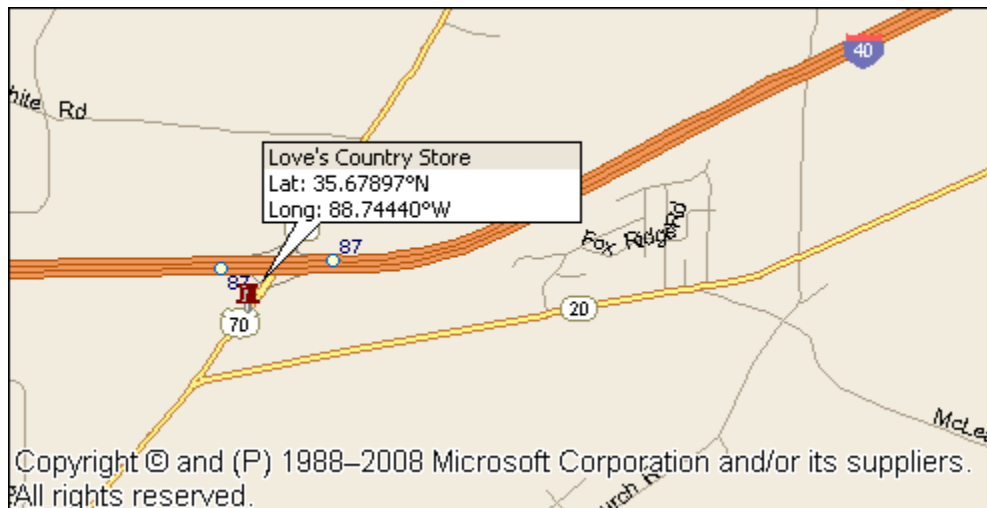
4.1 Site Location

Location:	I-40 West at M.P. 91.67, 1.75 miles west of exit 93 (SR 152)		Dir:	NB
Latitude:	35.70920°	Longitude:	-88.66330°	



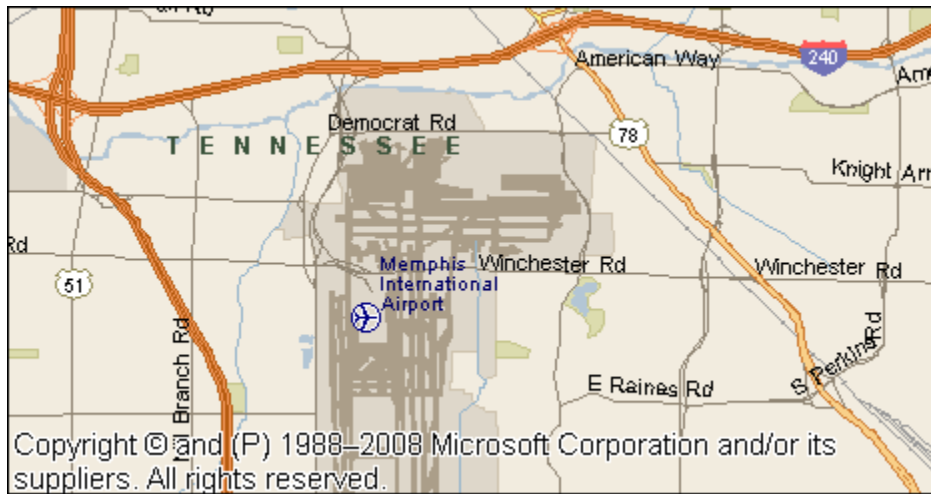
4.2 Truck Scale Location

Name:	Love's Country Stores	Location:	I-40 @ Exit 87
Latitude:	35.67897°	Longitude:	-88.7444°



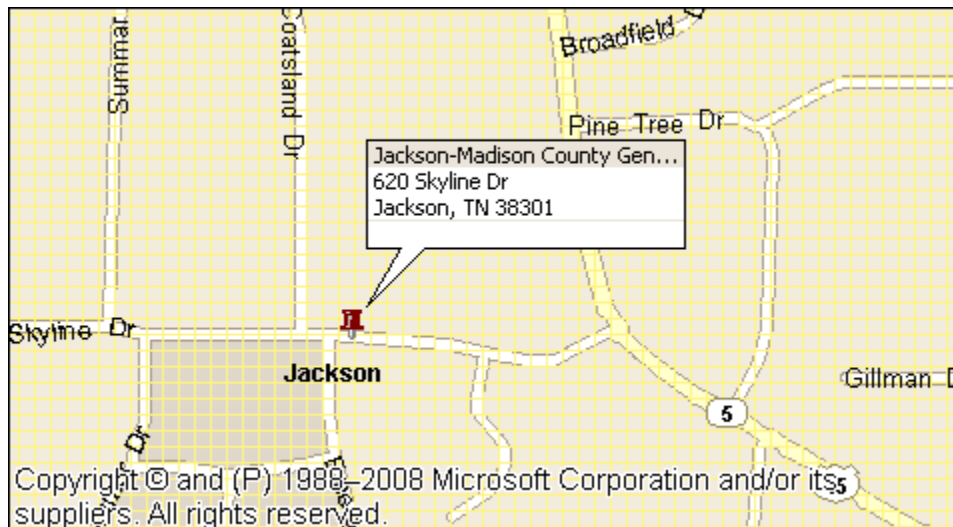
4.3 Airport Location

Name:	Memphis International Airport	Location:	Memphis, TN
Latitude:	35.0471°	Longitude:	-89.9818°



4.4 Hospital Location

Name:	Jackson-Madison County Gen Hosp-ER		
Phone:	731-541-6251	Location:	620 Skyline Drive, Jackson, TN



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:	47
	SPS WIM ID:	470600
	DATE (mm/dd/yyyy)	2/15/2011

1. ROUTE: I-40 **MILEPOST:** 91.67 **LTPP DIRECTION:** west

2. WIM SITE DESCRIPTION

Grade: <1% Sag Vertical: N
 Nearest Upstream SPS Section: N/A
 Distance from sensors to SPS Section: _____ ft

3. LANE CONFIGURATION

Lanes in LTPP direction:	<u>2</u>	Median:	<u>3 - grass</u>
Lane width:	<u>12'</u>	Shoulder:	<u>2 - paved AC</u>
Shoulder width:	<u>11'</u>		

4. PAVEMENT TYPE AC

5. PAVEMENT SURFACE CONDITION - Distress Survey

Date: <u>2/15/11</u>	Photo Filename: <u>470600_upstream_2_15_11.jpg</u>
Date: <u>2/15/11</u>	Photo Filename: <u>470600_downstream_2_15_11.jpg</u>
Date:	Photo Filename:

6. SENSOR SEQUENCE

Loop - Quartz - Quartz - Loop

7. REPLACEMENT AND/OR GRINDING

Date: _____
Date: _____
Date: _____

8. RAMPS OR INTERSECTIONS

Intersection within 300' upstream of site:	N
Intersection within 300' downstream of site:	N
Is shoulder routinely used for turning?	N

9. DRAINAGE

Drainage (*bending plate and load cell*): _____
 Clearance under plate (in.): _____
 Clearance /access to flush fines from under system: _____

Traffic Sheet 17 LTPP MONITORED TRAFFIC DATA WIM SITE INVENTORY	STATE CODE: 47 SPS WIM ID: 470600 DATE (mm/dd/yyyy) 2/15/2011
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10. CABINET LOCATION

Same side of road as LTPP lane: Y
Distance from edge of traveled lane: 44 ft
distance from system: 50 ft
type: M

Cabinet access controlled by: Agency and LTPP
Contact name: Jim Maxwell Phone # 615-350-4167
Alternate name: _____ Phone # _____

11. POWER

Distance to cabinet from drop: 32 ft
Type: AC
AC in cabinet? N
Service provider: _____ Phone # _____

12. TELEPHONE

Distance to cabinet from drop: 32 ft
Type: landline
Service provider: _____ Phone # _____

13. SYSTEM

Software and version no. _____
Computer connection: RS-232

14. TEST TRUCK TURNAROUND TIME

Duration: 17 minutes Distance: 13 miles

15. PHOTOS

	Filename
Power source:	<u>470600_power_service_box_2_15_11.jpg</u>
Phone source:	<u>470600_telephone_pedestal_2_15_11.jpg</u>
Cabinet exterior:	<u>470600_cabinet_exterior_2_15_11.jpg</u>
Cabinet interior:	<u>470600_cabinet_interior_front_2_15_11.jpg</u>
Weight sensors:	<u>470600_leading_WIM_sensor_2_15_11.jpg</u>
	<u>470600_trailing_WIM_sensor_2_15_11.jpg</u>
Other sensors:	<u>470600_leading_loop_sensor_2_15_11.jpg</u>
	<u>470600_trailing_loop_sensor_2_15_11.jpg</u>
Downstream from sensors on LTPP lane:	<u>470600_downstream_2_15_11.jpg</u>
Upstream from sensors on LTPP lane:	<u>470600_upstream_2_15_11.jpg</u>

Traffic Sheet 18 LTPP MONITORED TRAFFIC DATA WIM SITE COORDINATION	STATE CODE: 47 SPS WIM ID: 470600 DATE (mm/dd/yyyy) 2/15/2011
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1. DATA PROCESSING

- a. Download: LTPP only
- 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 Replacement as needed
- c. Profile Site Markings Temporary

Traffic Sheet 18 LTPP MONITORED TRAFFIC DATA WIM SITE COORDINATION	STATE CODE: 47 SPS WIM ID: 470600 DATE (mm/dd/yyyy) 2/15/2011
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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- Air suspension 3S2 LTPP

2nd- Air Suspension 3S2 LTPP

3rd- _____

4th- _____

- ii. Loads LTPP

- iii. Drivers LTPP

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

- 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: 47 SPS WIM ID: 470600 DATE (mm/dd/yyyy) 2/15/2011
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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 # 306-653-6627
Agency IRD
- b. Maintenance (equipment)
Name Roy Czinku Phone # 306-653-6627
Agency IRD
- c. Data Processing and pre-visit data
Name Roy Czinku Phone # 306-653-6627
Agency IRD
- d. Construction schedule and verification
Name Jim Maxwell Phone # 615-350-4167
Agency TN DOT
- e. Test Vehicles (trucks, loads, drivers)
Name Crane Services, Inc. Phone # _____
Agency _____
- f. Traffic control
Name _____ Phone # _____
Agency _____
- g. Enforcement coordination
Name _____ Phone # _____
Agency _____
- h. Nearest static scale
Name Love's Country Store Location: I-40, exit 87
Phone: 731-422-0901

Traffic Sheet 19 LTPP MONITORED TRAFFIC DATA CALIBRATION TEST TRUCK # 1	STATE CODE: 47 SPS WIM ID: 470600 DATE (mm/dd/yyyy) 2/15/2011
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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		10680	9290	Direct
B		16540	16930	Direct
C		16540	16930	Direct
D		16295	16285	Direct
E		16295	16285	Direct
F				

4. GVW (same units as axles)

- a. Empty GVW: _____
- b. Average Pre-Test Loaded weight: 76350
- c. Post Test Loaded Weight: 75720
- d. Difference Post Test - Pre-Tests: 630

5. TRUCK DESCRIPTION

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

- b. Make: International
c. Model: Eagle 9900i

d. Trailer Load Distribution Description:

crane weights

photo: ☒

- e. Tractor Tare weight - _____ - _____
- f. Trailer Tare weight - _____ - _____
- g. Axle Spacing - _____

A to B 15.0 B to C 4.4 C to D 32.6 D to E 4.0 E to F _____

- h. Wheelbase - ☐ Measured _____ ☒ Computed 56.0
- i. Kingpin offset from Axle B (units) _____ photo: ☐
- j. Overall Length - ☒ Measured 66

Traffic Sheet 19 LTPP MONITORED TRAFFIC DATA CALIBRATION TEST TRUCK # <u>1</u>	STATE CODE: 47 SPS WIM ID: 470600 DATE (mm/dd/yyyy) 2/15/2011
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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	11R 24.5	steel spring	☒
B	11R 24.5	air	☒
C	11R 24.5	air	☒
D	10R 17.5	air	☒
E	10R 17.5	air	☒
F			☐

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

Steering Axle	Axle B	Axle C	Axle D	Axle E	Axle F
133	122.9	118.6	114.4	112.6	
118.1	122	122.9	113.4	114.8	
	121.9	122.4	110.1	114.2	
	122.3	123.7	97.5	115.6	

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: 47 SPS WIM ID: 470600 DATE (mm/dd/yyyy) 2/15/2011
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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: 47 SPS WIM ID: 470600 DATE (mm/dd/yyyy) 2/15/2011
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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	11860	16000	16000	16300	16300		76460
2	9500	17080	17080	16290	16290		76240
Avg.	10680	16540	16540	16295	16295		76350

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	9260	16950	16950	16280	16280		75720
2	9320	16910	16910	16290	16290		75720
Avg.	9290	16930	16930	16285	16285		75720

Validation Test Truck Run Set - Pre

Measured By: _____

Verified By: _____

Traffic Sheet 19 LTPP MONITORED TRAFFIC DATA CALIBRATION TEST TRUCK # 2	STATE CODE: 47
	SPS WIM ID: 470600
	DATE (mm/dd/yyyy) 2/15/2011

CALIBRATION TEST TRUCK - Secondary

PART A

1. FHWA CLASS: 10 2. Number of axles: 6
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		9640	9550	Direct
B		12750	12445	Direct
C		12750	12445	Direct
D		10977	10997	Direct
E		10977	10997	Direct
F		10977	10997	Direct

4. GVW (same units as axles)

- a. Empty GVW: _____
- b. Average Pre-Test Loaded weight: 68070
- c. Post Test Loaded Weight: 67430
- d. Difference Post Test - Pre-Tests: 640

5. TRUCK DESCRIPTION

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

- b. Make: _____
- c. Model: unknown

d. Trailer Load Distribution Description:

crane weights

photo: ☒

- e. Tractor Tare weight - _____ - _____
- f. Trailer Tare weight - _____ - _____
- g. Axle Spacing - _____

A to B 15.3 B to C 4.3 C to D 27.5 D to E 4.2 E to F 4.2

- h. Wheelbase - ☐ Measured _____ ☒ Computed 55.5
- i. Kingpin offset from Axle B (units) _____ photo: ☐
- j. Overall Length - ☒ Measured 60.6

Traffic Sheet 19 LTPP MONITORED TRAFFIC DATA CALIBRATION TEST TRUCK # 2	STATE CODE: 47 SPS WIM ID: 470600 DATE (mm/dd/yyyy) 2/15/2011
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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		steel spring	☒
B		air	☒
C		air	☒
D		air	☒
E		air	☒
F		air	☐

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

Steering Axle	Axle B	Axle C	Axle D	Axle E	Axle F
93.6	107.4	110.3	105.4	114.6	110.2
106.5	108.5	109.8	112.6	116.2	109.0
	102.2	109.9	112.4	114.3	112.1
	109.6	107.6	109.4	112.9	103.3

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 # 2	STATE CODE: 47 SPS WIM ID: 470600 DATE (mm/dd/yyyy) 2/15/2011
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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	0	XI	0	0
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	0	XI	0	0
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	0	XI	0	0
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	0	XI		0
GVW	VI	0	XII	0	0

Traffic Sheet 19 LTPP MONITORED TRAFFIC DATA CALIBRATION TEST TRUCK # 2	STATE CODE: 47 SPS WIM ID: 470600 DATE (mm/dd/yyyy) 2/15/2011
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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	9640	12800	12800	10973	10973	10973	68160
2	9640	12700	12700	10980	10980	10980	67980
Avg.	9640	12750	12750	10977	10977	10977	68070

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	9360	12570	12570	10973	10973	10973	67420
2	9740	12320	12320	11020	11020	11020	67440
Avg.	9550	12445	12445	10997	10997	10997	67430

Validation Test Truck Run Set - Pre

Measured By: _____

Verified By: _____

Traffic Sheet 19 LTPP MONITORED TRAFFIC DATA CALIBRATION TEST TRUCK # 1	STATE CODE: 47
	SPS WIM ID: 470600
	DATE (mm/dd/yyyy) 2/16/2011

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		9580	0	Direct
B		17045	0	Direct
C		17045	0	Direct
D		16290	0	Direct
E		16290	0	Direct
F				

4. GVW (same units as axles)

- a. Empty GVW: _____
- b. Average Pre-Test Loaded weight: 76250
- c. Post Test Loaded Weight: 0
- d. Difference Post Test - Pre-Tests: 76250

5. TRUCK DESCRIPTION

- a. Tractor Cab Style: _____ Sleeper Cab: _____
photo: ☒

- b. Make: international
- c. Model: Eagle 9900i

d. Trailer Load Distribution Description:

crane weights

photo: ☒

- e. Tractor Tare weight - _____ - _____
- f. Trailer Tare weight - _____ - _____
- g. Axle Spacing - _____

A to B 15.0 B to C 4.4 C to D 32.6 D to E 4.0 E to F _____

- h. Wheelbase - ☐ Measured _____ ☒ Computed 56.0
- i. Kingpin offset from Axle B (units) _____ photo: ☐
- j. Overall Length - ☒ Measured 66

Traffic Sheet 19 LTPP MONITORED TRAFFIC DATA CALIBRATION TEST TRUCK # <u>1</u>	STATE CODE: 47 SPS WIM ID: 470600 DATE (mm/dd/yyyy) 2/16/2011
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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		steel spring	☒
B		air	☒
C		air	☒
D		air	☒
E		air	☒
F			☐

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

Steering Axle	Axle B	Axle C	Axle D	Axle E	Axle F

PART B

Table 1 - Raw Measurements -Platform Scale

Axes	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: 47 SPS WIM ID: 470600 DATE (mm/dd/yyyy) 2/16/2011
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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: 47 SPS WIM ID: 470600 DATE (mm/dd/yyyy) 2/16/2011
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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	9560	17050	17050	16290	16290		76240
2	9600	17040	17040	16290	16290		76260
Avg.	9580	17045	17045	16290	16290		76250

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: _____

Verified By: _____

Traffic Sheet 19 LTPP MONITORED TRAFFIC DATA CALIBRATION TEST TRUCK # 2	STATE CODE: 47 SPS WIM ID: 470600 DATE (mm/dd/yyyy) 2/16/2011
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CALIBRATION TEST TRUCK - Secondary

PART A

1. FHWA CLASS: 10 2. Number of axles: 6
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		9620	0	Direct
B		12665	0	Direct
C		12665	0	Direct
D		10997	0	Direct
E		10997	0	Direct
F		10997	0	Direct

4. GVW (same units as axles)

- a. Empty GVW: _____
- b. Average Pre-Test Loaded weight: 67940
- c. Post Test Loaded Weight: 0
- d. Difference Post Test - Pre-Tests: 67940

5. TRUCK DESCRIPTION

- a. Tractor Cab Style: _____ Sleeper Cab: _____
photo: ☒

- b. Make: _____
- c. Model: _____

d. Trailer Load Distribution Description:

crane weights

photo: ☒

- e. Tractor Tare weight - _____ - _____
- f. Trailer Tare weight - _____ - _____
- g. Axle Spacing - _____

A to B 15.3 B to C 4.3 C to D 27.5 D to E 4.2 E to F 4.2

- h. Wheelbase - ☐ Measured _____ ☒ Computed 55.5
- i. Kingpin offset from Axle B (units) _____ photo: ☐
- j. Overall Length - ☒ Measured 60.6

Traffic Sheet 19 LTPP MONITORED TRAFFIC DATA CALIBRATION TEST TRUCK # 2	STATE CODE: 47 SPS WIM ID: 470600 DATE (mm/dd/yyyy) 2/16/2011
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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		steel spring	☒
B		air	☒
C		air	☒
D		air	☒
E		air	☒
F		air	☐

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

Steering Axle	Axle B	Axle C	Axle D	Axle E	Axle F

PART B

Table 1 - Raw Measurements -Platform Scale

Axes	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 # 2	STATE CODE: 47 SPS WIM ID: 470600 DATE (mm/dd/yyyy) 2/16/2011
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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	0	XI	0	0
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	0	XI	0	0
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	0	XI	0	0
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	0	XI		0
GVW	VI	0	XII	0	0

Traffic Sheet 19 LTPP MONITORED TRAFFIC DATA CALIBRATION TEST TRUCK # <u>2</u>	STATE CODE: 47 SPS WIM ID: 470600 DATE (mm/dd/yyyy) 2/16/2011
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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	9560	12720	12720	10980	10980	10980	67940
2	9680	12610	12610	11013	11013	11013	67940
Avg.	9620	12665	12665	10997	10997	10997	67940

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: _____

Verified By: _____

Traffic Sheet 19 LTPP MONITORED TRAFFIC DATA CALIBRATION TEST TRUCK # 1	STATE CODE: 47
	SPS WIM ID: 470600
	DATE (mm/dd/yyyy) 2/16/2011

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		9580	0	Direct
B		17045	0	Direct
C		17045	0	Direct
D		16290	0	Direct
E		16290	0	Direct
F				

4. GVW (same units as axles)

- a. Empty GVW: _____
- b. Average Pre-Test Loaded weight: 76250
- c. Post Test Loaded Weight: 0
- d. Difference Post Test - Pre-Tests: 76250

5. TRUCK DESCRIPTION

- a. Tractor Cab Style: _____ Sleeper Cab: _____
photo: ☒

- b. Make: international
- c. Model: Eagle 9900i

d. Trailer Load Distribution Description:

crane weights

photo: ☒

- e. Tractor Tare weight - _____ - _____
- f. Trailer Tare weight - _____ - _____
- g. Axle Spacing - _____

A to B 15.0 B to C 4.4 C to D 32.6 D to E 4.0 E to F _____

- h. Wheelbase - ☐ Measured _____ ☒ Computed 56.0
- i. Kingpin offset from Axle B (units) _____ photo: ☐
- j. Overall Length - ☒ Measured 66

Traffic Sheet 19 LTPP MONITORED TRAFFIC DATA CALIBRATION TEST TRUCK # <u>1</u>	STATE CODE: 47 SPS WIM ID: 470600 DATE (mm/dd/yyyy) 2/16/2011
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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		steel spring	☒
B		air	☒
C		air	☒
D		air	☒
E		air	☒
F			☐

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

Steering Axle	Axle B	Axle C	Axle D	Axle E	Axle F

PART B

Table 1 - Raw Measurements -Platform Scale

Axes	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: 47 SPS WIM ID: 470600 DATE (mm/dd/yyyy) 2/16/2011
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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: 47 SPS WIM ID: 470600 DATE (mm/dd/yyyy) 2/16/2011
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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	9560	17050	17050	16290	16290		76240
2	9600	17040	17040	16290	16290		76260
Avg.	9580	17045	17045	16290	16290		76250

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 2

Measured By: _____

Verified By: _____

Traffic Sheet 19 LTPP MONITORED TRAFFIC DATA CALIBRATION TEST TRUCK # 2	STATE CODE: 47 SPS WIM ID: 470600 DATE (mm/dd/yyyy) 2/16/2011
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CALIBRATION TEST TRUCK - Secondary

PART A

1. FHWA CLASS: 10 2. Number of axles: 6
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		9620	0	Direct
B		12665	0	Direct
C		12665	0	Direct
D		10997	0	Direct
E		10997	0	Direct
F		10997	0	Direct

4. GVW (same units as axles)

- a. Empty GVW: _____
- b. Average Pre-Test Loaded weight: 67940
- c. Post Test Loaded Weight: 0
- d. Difference Post Test - Pre-Tests: 67940

5. TRUCK DESCRIPTION

- a. Tractor Cab Style: _____ Sleeper Cab: _____
photo: ☒

- b. Make: _____
- c. Model: _____

d. Trailer Load Distribution Description:

crane weights

photo: ☒

- e. Tractor Tare weight - _____ - _____
- f. Trailer Tare weight - _____ - _____
- g. Axle Spacing - _____

A to B 15.3 B to C 4.3 C to D 27.5 D to E 4.2 E to F 4.2

- h. Wheelbase - ☐ Measured _____ ☒ Computed 55.5
- i. Kingpin offset from Axle B (units) _____ photo: ☐
- j. Overall Length - ☒ Measured 60.6

Traffic Sheet 19 LTPP MONITORED TRAFFIC DATA CALIBRATION TEST TRUCK # 2	STATE CODE: 47 SPS WIM ID: 470600 DATE (mm/dd/yyyy) 2/16/2011
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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		steel spring	☒
B		air	☒
C		air	☒
D		air	☒
E		air	☒
F		air	☐

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

Steering Axle	Axle B	Axle C	Axle D	Axle E	Axle F

PART B

Table 1 - Raw Measurements -Platform Scale

Axes	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 # 2	STATE CODE: 47 SPS WIM ID: 470600 DATE (mm/dd/yyyy) 2/16/2011
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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	0	XI	0	0
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	0	XI	0	0
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	0	XI	0	0
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	0	XI		0
GVW	VI	0	XII	0	0

Traffic Sheet 19 LTPP MONITORED TRAFFIC DATA CALIBRATION TEST TRUCK # <u>2</u>	STATE CODE: 47 SPS WIM ID: 470600 DATE (mm/dd/yyyy) 2/16/2011
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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	9560	12720	12720	10980	10980	10980	67940
2	9680	12610	12610	11013	11013	11013	67940
Avg.	9620	12665	12665	10997	10997	10997	67940

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 2

Measured By: _____

Verified By: _____

Traffic Sheet 19 LTPP MONITORED TRAFFIC DATA CALIBRATION TEST TRUCK # 1	STATE CODE: 47 SPS WIM ID: 470600 DATE (mm/dd/yyyy) 2/16/2011
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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		9580	9290	Direct
B		17045	16905	Direct
C		17045	16905	Direct
D		16290	16295	Direct
E		16290	16295	Direct
F				

4. GVW (same units as axles)

- a. Empty GVW: _____
- b. Average Pre-Test Loaded weight: 76250
- c. Post Test Loaded Weight: 75690
- d. Difference Post Test - Pre-Tests: 560

5. TRUCK DESCRIPTION

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

- b. Make: International
c. Model: Eagle 9900i

d. Trailer Load Distribution Description:

crane weights

photo: ☒

- e. Tractor Tare weight - _____ - _____
- f. Trailer Tare weight - _____ - _____
- g. Axle Spacing - _____

A to B 15.0 B to C 4.4 C to D 32.6 D to E 4.0 E to F _____

- h. Wheelbase - ☐ Measured _____ ☒ Computed 56.0
- i. Kingpin offset from Axle B (units) _____ photo: ☐
- j. Overall Length - ☒ Measured 66

Traffic Sheet 19 LTPP MONITORED TRAFFIC DATA CALIBRATION TEST TRUCK # <u>1</u>	STATE CODE: 47 SPS WIM ID: 470600 DATE (mm/dd/yyyy) 2/16/2011
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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		steel spring	☒
B		air	☒
C		air	☒
D		air	☒
E		air	☒
F			☐

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

Steering Axle	Axle B	Axle C	Axle D	Axle E	Axle F

PART B

Table 1 - Raw Measurements -Platform Scale

Axes	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: 47 SPS WIM ID: 470600 DATE (mm/dd/yyyy) 2/16/2011
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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: 47 SPS WIM ID: 470600 DATE (mm/dd/yyyy) 2/16/2011
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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	9560	17050	17050	16290	16290		76240
2	9600	17040	17040	16290	16290		76260
Avg.	9580	17045	17045	16290	16290		76250

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	9280	16920	16920	16290	16290		75700
2	9300	16890	16890	16300	16300		75680
Avg.	9290	16905	16905	16295	16295		75690

Validation Test Truck Run Set - Post

Measured By: Aditya

Verified By: Kevin Trousdale

Traffic Sheet 19 LTPP MONITORED TRAFFIC DATA CALIBRATION TEST TRUCK # 2	STATE CODE: 47 SPS WIM ID: 470600 DATE (mm/dd/yyyy) 2/16/2011
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CALIBRATION TEST TRUCK - Secondary

PART A

1. FHWA CLASS: 10 2. Number of axles: 6
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		9620	10580	Direct
B		12665	11930	Direct
C		12665	11930	Direct
D		10997	10990	Direct
E		10997	10990	Direct
F		10997	10990	Direct

4. GVW (same units as axles)

- a. Empty GVW: _____
- b. Average Pre-Test Loaded weight: 67940
- c. Post Test Loaded Weight: 67410
- d. Difference Post Test - Pre-Tests: 530

5. TRUCK DESCRIPTION

- a. Tractor Cab Style: _____ Sleeper Cab: _____
photo: ☒

- b. Make: _____
- c. Model: _____

d. Trailer Load Distribution Description:

crane weights

photo: ☒

- e. Tractor Tare weight - _____ - _____
- f. Trailer Tare weight - _____ - _____
- g. Axle Spacing - _____

A to B 15.3 B to C 4.3 C to D 27.5 D to E 4.2 E to F 4.2

- h. Wheelbase - ☐ Measured _____ ☒ Computed 55.5
- i. Kingpin offset from Axle B (units) _____ photo: ☐
- j. Overall Length - ☒ Measured 60.6

Traffic Sheet 19 LTPP MONITORED TRAFFIC DATA CALIBRATION TEST TRUCK # 2	STATE CODE: 47 SPS WIM ID: 470600 DATE (mm/dd/yyyy) 2/16/2011
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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		steel spring	☒
B		air	☒
C		air	☒
D		air	☒
E		air	☒
F		air	☐

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

Steering Axle	Axle B	Axle C	Axle D	Axle E	Axle F

PART B

Table 1 - Raw Measurements -Platform Scale

Axes	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 # 2	STATE CODE: 47 SPS WIM ID: 470600 DATE (mm/dd/yyyy) 2/16/2011
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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	0	XI	0	0
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	0	XI	0	0
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	0	XI	0	0
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	0	XI		0
GVW	VI	0	XII	0	0

Traffic Sheet 19 LTPP MONITORED TRAFFIC DATA CALIBRATION TEST TRUCK # <u>2</u>	STATE CODE: 47 SPS WIM ID: 470600 DATE (mm/dd/yyyy) 2/16/2011
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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	9560	12720	12720	10980	10980	10980	67940
2	9680	12610	12610	11013	11013	11013	67940
Avg.	9620	12665	12665	10997	10997	10997	67940

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	11980	11170	11170	11033	11033	11033	67420
2	9180	12690	12690	10946	10946	10946	67400
Avg.	10580	11930	11930	10990	10990	10990	67410

Validation Test Truck Run Set - Post

Measured By: _____

Verified By: Kevin trousdale

Traffic Sheet 21 (Wheel Load) LTPP MONITORED TRAFFIC DATA WIM SYSTEM TRUCK RECORDS										STATE CODE: 47 SPS WIM ID: 470600 DATE: (mm/dd/yyyy): 2/15/2011									
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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
40.1	58	2	1	8:33:54	43860	59.0	9.4	11.9	12.1	11.2	9.6	10.5	64.8	15.3	4.4	27.7	4.2	4.2	55.8	63.0
40.1	58	1	1	8:34:02	43862	58.0	10.1	16.9	16.5	16.8	15.4		75.8	14.9	4.5	32.8	4.2		56.4	67.0
44.2	63	2	2	8:49:17	44318	64.0	9.8	12.1	12.4	11.3	10.2	9.3	65.1	15.4	4.4	27.6	4.2	4.2	55.8	63.0
44.2	63	1	2	8:49:20	44320	64.0	9.7	17.2	16.7	16.7	15.4		75.6	15.0	4.4	32.8	4.2		56.4	69.0
44.5	60	2	3	9:20:39	45265	59.0	9.5	12.7	12.1	10.7	10.1	10.0	65.1	15.3	4.4	27.7	4.2	4.2	55.8	63.0
44.5	60	1	3	9:20:41	45267	59.0	9.5	16.5	16.5	16.9	15.2		74.6	14.9	4.4	32.8	4.1		56.2	67.0
47.9	65	2	4	9:35:46	45693	64.0	9.3	12.1	12.1	11.1	10.3	9.8	64.6	15.3	4.4	27.6	4.2	4.2	55.7	64.0
47.9	65	1	4	9:35:47	45696	64.0	9.5	16.6	15.6	16.6	15.0		73.3	15.0	4.5	32.8	4.1		56.4	67.0
52.3	69	2	5	9:52:21	46220	70.0	9.1	11.7	12.6	11.0	10.0	8.5	62.8	15.4	4.4	27.6	4.2	4.2	55.8	64.0
52.3	69	1	5	9:52:24	46221	70.0	9.6	16.8	16.5	16.6	14.7		74.3	14.9	4.5	32.7	4.1		56.2	67.0
47.3	63	2	6	10:23:46	47239	63.0	9.3	11.9	12.3	10.8	10.0	9.9	64.3	15.3	4.4	27.6	4.2	4.2	55.7	63.0
47.3	65	1	6	10:23:47	47240	64.0	9.5	16.6	16.3	15.9	15.3		73.7	15.0	4.4	32.7	4.1		56.2	67.0
51.5	67	2	7	11:03:11	48563	67.0	9.5	11.5	12.7	11.1	10.4	9.0	64.2	15.4	4.4	27.6	4.2	4.2	55.8	63.0
51.5	69	1	7	11:03:13	48565	68.0	9.7	16.9	16.3	14.6	14.7		72.2	14.9	4.5	32.7	4.1		56.2	67.0
58.4	60	2	8	11:19:00	49094	59.0	9.2	12.1	12.4	10.7	9.9	10.8	65.1	15.3	4.4	27.7	4.2	4.2	55.8	63.0
58.4	62	1	8	11:19:02	49097	59.0	9.8	15.9	15.5	15.6	14.3		71.0	15.0	4.5	32.7	4.2		56.4	68.0
57.8	63	2	9	11:34:44	49574	64.0	9.2	11.6	12.1	10.4	10.6	9.5	63.4	15.3	4.4	27.7	4.2	4.2	55.8	63.0
57.8	62	1	9	11:34:46	49576	64.0	9.7	16.4	15.2	16.0	14.5		71.9	14.9	4.5	32.7	4.1		56.2	67.0
60.8	67	2	10	11:50:24	50099	69.0	9.5	12.2	11.7	10.9	10.8	9.8	64.9	15.4	4.4	27.6	4.2	4.2	55.8	63.0
60.8	69	1	10	11:50:27	50102	70.0	9.6	17.1	16.6	16.5	15.0		74.9	14.9	4.5	32.8	4.1		56.3	67.0
67.8	58	2	11	13:12:58	52752	59.0	9.3	12.3	12.1	11.0	10.4	10.5	65.6	15.4	4.4	27.6	4.2	4.2	55.8	63.0
67.8	58	1	11	13:13:01	52753	59.0	9.5	16.1	15.7	16.4	15.3		72.9	14.9	4.4	32.8	4.1		56.2	67.0
67.4	63	2	12	13:28:42	53261	64.0	9.4	11.9	12.3	10.8	9.8	10.1	64.4	15.4	4.4	27.6	4.2	4.2	55.8	63.0
67.4	63	1	12	13:28:44	53264	64.0	9.2	16.7	15.9	16.4	15.0		73.2	14.9	4.4	32.7	4.1		56.1	67.0

Recorded By: _____ ar _____	Verified By: _____ kt _____	Run Set _____ Pre _____
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Traffic Sheet 21 (Wheel Load) LTPP MONITORED TRAFFIC DATA WIM SYSTEM TRUCK RECORDS										STATE CODE: 47 SPS WIM ID: 470600 DATE: (mm/dd/yyyy): 2/15/2011									
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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
66.3	68	2	13	13:44:57	53797	70.0	8.8	12.0	11.5	10.9	9.4	8.7	61.2	15.3	4.4	27.6	4.2	4.2	55.7	63.0
66.3	68	1	13	13:44:59	53799	68.0	9.1	15.9	15.4	16.0	14.7		71.0	14.9	4.4	32.8	4.1		56.2	67.0
68.4	59	2	14	14:01:08	54326	59.0	9.3	12.1	12.3	10.6	10.4	9.7	64.5	15.3	4.4	27.5	4.2	4.2	55.6	63.0
68.4	59	1	14	14:01:11	54331	60.0	9.4	16.0	15.9	16.3	15.1		72.5	14.9	4.4	32.7	4.1		56.1	67.0
68.5	64	2	15	14:16:54	54853	64.0	9.1	11.7	11.6	10.5	10.2	9.6	62.7	15.4	4.4	27.6	4.2	4.2	55.8	63.0
68.5	63	1	15	14:16:56	54860	64.0	9.5	16.7	16.1	16.4	14.8		73.5	14.9	4.4	32.7	4.1		56.1	67.0
69.3	70	2	16	14:32:34	55397	69.0	9.0	11.7	11.9	10.7	10.1	9.5	62.8	15.3	4.4	27.6	4.2	4.2	55.7	64.0
69.3	70	1	16	14:32:37	55399	70.0	9.2	16.1	15.9	15.9	14.3		71.4	14.9	4.4	32.8	4.1		56.2	67.0
68.9	59	2	17	14:48:20	55946	60.0	8.7	12.2	12.1	11.4	10.5	10.0	64.7	15.3	4.4	27.6	4.2	4.2	55.7	63.0
68.2	63	2	18	15:04:31	56503	64.0	9.1	12.2	12.2	11.1	10.4	10.0	64.8	15.4	4.4	27.6	4.2	4.2	55.8	63.0
68.2	65	1	18	15:04:34	56507	64.0	9.7	16.5	16.9	15.9	14.6		73.5	15.0	4.5	32.8	4.1		56.4	67.0
66.4	68	2	19	15:20:12	57091	70.0	8.9	11.5	12.2	10.9	10.3	8.9	62.8	15.4	4.4	27.6	4.2	4.2	55.8	63.0
66.4	68	1	19	15:20:15	57097	68.0	8.8	15.4	15.7	15.7	14.3		69.9	15.0	4.4	32.9	4.1		56.4	67.0
66.3	59	2	20	15:36:52	57680	59.0	9.0	12.1	12.3	11.0	10.0	10.5	64.9	15.3	4.4	27.6	4.2	4.2	55.7	63.0
66.3	60	1	20	15:36:55	57682	60.0	9.4	16.3	15.5	16.5	15.0		72.7	14.9	4.5	32.7	4.1		56.2	67.0
65.5	64	2	21	15:52:29	58294	64.0	9.3	12.4	12.2	11.0	10.4	9.7	64.8	15.4	4.4	27.6	4.2	4.2	55.8	64.0
65.5	63	1	21	15:52:31	58297	64.0	9.4	16.4	15.6	16.2	14.9		72.5	14.9	4.4	32.7	4.1		56.1	68.0

Recorded By: _____ ar _____	Verified By: _____ kt _____	Run Set _____ Pre _____
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Traffic Sheet 21 (Wheel Load) LTPP MONITORED TRAFFIC DATA WIM SYSTEM TRUCK RECORDS										STATE CODE: 47 SPS WIM ID: 470600 DATE: (mm/dd/yyyy): 2/16/2011									
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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
59.1	61	2	1	7:48:02	1397	59.0	9.8	13.1	13.4	11.7	10.8	11.5	70.3	15.3	4.4	27.5	4.2	4.2	55.6	61.0
59.1	62	1	1	7:48:06	1400	59.0	10.7	17.1	16.6	17.1	15.9		77.3	14.9	4.4	32.7	4.1		56.1	65.0
55.1	65	2	2	8:04:23	1954	64.0	9.5	12.7	13.0	11.5	10.8	10.6	68.0	15.3	4.4	27.6	4.2	4.2	55.7	62.0
55.1	64	1	2	8:04:25	1956	64.0	9.9	17.8	17.4	17.0	15.7		77.9	14.9	4.4	32.7	4.1		56.1	65.0
56.0	68	2	3	8:18:53	2382	68.0	10.0	12.7	13.7	11.6	10.9	9.4	68.3	15.3	4.4	27.5	4.2	4.2	55.6	61.0
56.0	69	1	3	8:18:57	2384	69.0	9.9	18.1	17.2	16.8	16.1		78.1	14.9	4.5	32.6	4.1		56.1	65.0
56.1	60	2	4	8:33:45	2804	60.0	9.7	13.1	13.3	11.6	10.9	11.4	69.9	15.3	4.4	27.5	4.2	4.2	55.6	61.0
56.1	59	1	4	8:33:48	2806	59.0	10.2	17.5	17.0	17.2	15.7		77.5	14.8	4.4	32.7	4.1		56.0	64.0
56.3	65	2	5	8:48:19	3280	65.0	9.5	12.9	12.7	11.7	11.1	10.9	68.9	15.3	4.4	27.5	4.2	4.2	55.6	61.0
56.3	64	1	5	8:48:23	3281	64.0	9.9	17.9	16.6	17.1	15.5		76.9	14.9	4.4	32.6	4.1		56.0	64.0
55.0	69	2	6	9:02:28	3681	69.0	9.9	13.2	12.5	11.7	12.0	11.9	71.1	15.3	4.4	27.5	4.2	4.2	55.6	61.0
55.0	69	1	6	9:02:30	3682	69.0	9.8	17.9	17.1	17.1	16.0		77.9	15.0	4.4	32.7	4.1		56.2	65.0

Recorded By: _____ ar _____	Verified By: _____ kt _____	Run Set _____ Cal 1 _____
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Traffic Sheet 21 (Wheel Load) LTPP MONITORED TRAFFIC DATA WIM SYSTEM TRUCK RECORDS										STATE CODE: 47 SPS WIM ID: 470600 DATE: (mm/dd/yyyy): 2/16/2011									
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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
63.9	60	2	1	10:02:51	5439	60.0	9.6	12.5	12.7	11.3	10.7	10.2	67.0	15.3	4.3	27.5	4.2	4.2	55.5	61.0
63.9	59	1	1	10:02:53	5440	60.0	9.7	16.9	16.8	16.6	15.3		75.2	14.9	4.4	32.7	4.1		56.1	67.0
65.5	64	2	2	10:17:28	5944	64.0	9.8	12.5	12.7	11.3	11.0	11.2	68.4	15.3	4.4	27.5	4.2	4.2	55.6	61.0
65.5	64	1	2	10:17:29	5945	65.0	9.1	16.4	15.7	16.2	15.1		72.5	14.9	4.4	32.7	4.1		56.1	65.0
67.8	69	2	3	10:32:06	6441	70.0	9.9	13.0	12.6	11.7	10.8	11.6	69.6	15.3	4.4	27.5	4.2	4.2	55.6	61.0
67.8	68	1	3	10:32:10	6443	68.0	9.5	17.4	16.6	16.8	15.5		75.8	14.9	4.5	32.6	4.1		56.1	65.0
67.9	61	2	4	10:47:00	6938	60.0	9.1	12.6	12.9	11.2	10.8	10.7	67.3	15.3	4.4	27.5	4.2	4.2	55.6	61.0
67.9	60	1	4	10:47:02	6941	60.0	9.6	17.2	16.4	16.5	15.1		74.8	14.9	4.4	32.6	4.1		56.0	65.0
68.8	64	2	5	11:02:37	7442	65.0	9.6	12.5	12.7	11.1	10.7	10.7	67.4	15.3	4.4	27.5	4.2	4.2	55.6	61.0
68.8	64	1	5	11:02:40	7443	64.0	9.6	17.3	16.5	17.0	15.5		75.9	14.9	4.4	32.7	4.1		56.1	66.0
70.9	70	2	6	11:17:04	7914	70.0	9.6	12.6	12.4	11.4	11.8	10.6	68.3	15.3	4.4	27.5	4.1	4.2	55.5	61.0
70.9	68	1	6	11:17:06	7916	68.0	9.7	17.6	16.1	16.9	15.3		75.6	14.9	4.4	32.7	4.1		56.1	66.0

Recorded By: _____ ar _____	Verified By: _____ kt _____	Run Set _____ Cal 2 _____
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Traffic Sheet 21 (Wheel Load) LTPP MONITORED TRAFFIC DATA WIM SYSTEM TRUCK RECORDS										STATE CODE: 47 SPS WIM ID: 470600 DATE: (mm/dd/yyyy): 2/16/2011									
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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
63.9	60	2	1	10:02:51	5439	60.0	9.6	12.5	12.7	11.3	10.7	10.2	67.0	15.3	4.3	27.5	4.2	4.2	55.5	61.0
63.9	59	1	1	10:02:53	5440	60.0	9.7	16.9	16.8	16.6	15.3		75.2	14.9	4.4	32.7	4.1		56.1	67.0
65.5	64	2	2	10:17:28	5944	64.0	9.8	12.5	12.7	11.3	11.0	11.2	68.4	15.3	4.4	27.5	4.2	4.2	55.6	61.0
65.5	64	1	2	10:17:29	5945	65.0	9.1	16.4	15.7	16.2	15.1		72.5	14.9	4.4	32.7	4.1		56.1	65.0
67.8	69	2	3	10:32:06	6441	70.0	9.9	13.0	12.6	11.7	10.8	11.6	69.6	15.3	4.4	27.5	4.2	4.2	55.6	61.0
67.8	68	1	3	10:32:10	6443	68.0	9.5	17.4	16.6	16.8	15.5		75.8	14.9	4.5	32.6	4.1		56.1	65.0
67.9	61	2	4	10:47:00	6938	60.0	9.1	12.6	12.9	11.2	10.8	10.7	67.3	15.3	4.4	27.5	4.2	4.2	55.6	61.0
67.9	60	1	4	10:47:02	6941	60.0	9.6	17.2	16.4	16.5	15.1		74.8	14.9	4.4	32.6	4.1		56.0	65.0
68.8	64	2	5	11:02:37	7442	65.0	9.6	12.5	12.7	11.1	10.7	10.7	67.4	15.3	4.4	27.5	4.2	4.2	55.6	61.0
68.8	64	1	5	11:02:40	7443	64.0	9.6	17.3	16.5	17.0	15.5		75.9	14.9	4.4	32.7	4.1		56.1	66.0
70.9	70	2	6	11:17:04	7914	70.0	9.6	12.6	12.4	11.4	11.8	10.6	68.3	15.3	4.4	27.5	4.1	4.2	55.5	61.0
70.9	68	1	6	11:17:06	7916	68.0	9.7	17.6	16.1	16.9	15.3		75.6	14.9	4.4	32.7	4.1		56.1	66.0
75.0	60	2	7	12:19:40	9970	60.0	9.2	12.7	12.4	10.9	10.6	11.2	66.9	15.2	4.4	27.4	4.2	4.2	55.4	63.0
75.0	60	1	7	12:19:42	9974	60.0	9.5	16.3	15.9	16.6	15.2		73.5	14.9	4.4	32.6	4.1		56.0	65.0
73.9	63	2	8	12:35:02	10508	64.0	9.5	12.5	12.6	10.8	10.9	10.4	66.7	15.3	4.4	27.4	4.2	4.2	55.5	61.0
73.9	64	1	8	12:35:04	10509	64.0	9.2	17.2	16.7	16.8	15.5		75.3	14.9	4.4	32.7	4.1		56.1	65.0
78.7	69	2	9	12:49:48	11057	70.0	9.3	13.0	12.0	11.3	11.6	12.5	69.9	15.2	4.4	27.4	4.1	4.2	55.3	61.0
78.7	68	1	9	12:49:49	11059	68.0	9.5	17.6	16.7	16.7	15.2		75.7	14.9	4.4	32.6	4.1		56.0	65.0
78.6	61	2	10	13:05:17	11578	60.0	9.2	13.4	12.6	11.0	10.5	11.2	67.0	15.3	4.4	27.4	4.2	4.2	55.5	62.0
78.6	60	1	10	13:05:20	11585	59.0	9.7	16.6	15.8	16.6	15.2		73.9	14.9	4.4	32.7	4.1		56.1	66.0
79.6	64	2	11	13:20:27	12103	64.0	9.5	12.4	12.8	11.1	10.4	11.8	68.0	15.3	4.3	27.5	4.2	4.2	55.5	61.0
79.6	64	1	11	13:20:29	12106	64.0	9.4	17.3	16.6	16.7	15.1		75.2	14.9	4.4	32.5	4.1		55.9	65.0
79.0	69	2	12	13:35:50	12632	70.0	9.2	12.6	12.1	10.7	9.6	10.6	64.9	15.3	4.4	27.5	4.2	4.2	55.6	62.0
79.0	70	1	12	13:35:53	12634	70.0	9.3	16.5	16.4	16.7	15.4		74.1	14.9	4.4	32.6	4.1		56.0	66.0

Recorded By: _____ ar _____										Verified By: _____ kt _____										Run Set _____ Post _____	
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Traffic Sheet 21 (Wheel Load) LTTP MONITORED TRAFFIC DATA WIM SYSTEM TRUCK RECORDS										STATE CODE: 47 SPS WIM ID: 470600 DATE: (mm/dd/yyyy): 2/16/2011									
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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
78.2	59	2	13	13:51:10	13184	59.0	9.0	12.2	12.4	10.8	10.5	10.6	65.5	15.3	4.3	27.5	4.2	4.2	55.5	61.0
78.2	59	1	13	13:51:13	13189	60.0	9.5	16.8	16.2	16.8	15.5		74.5	14.9	4.4	32.6	4.1		56.0	65.0
74.9	66	2	14	14:21:04	14251	68.0	9.7	11.7	12.8	11.3	11.1	9.6	66.0	15.3	4.4	27.5	4.2	4.2	55.6	61.0
74.9	68	1	14	14:21:10	14257	68.0	10.1	17.8	16.5	15.9	14.7		75.0	14.9	4.4	32.6	4.1		56.0	65.0
74.3	62	2	15	14:36:23	14805	58.0	9.8	12.0	12.3	11.1	10.4	10.3	65.8	15.3	4.4	27.5	4.2	4.2	55.6	61.0
74.3	59	1	15	14:36:26	14811	60.0	9.5	16.8	16.5	16.8	15.3		74.8	14.9	4.4	32.7	4.1		56.1	65.0
74.0	66	2	16	14:52:09	15267	64.0	10.1	11.7	11.6	10.6	10.2	9.9	64.1	15.3	4.4	27.4	4.2	4.2	55.5	60.0
74.0	64	1	16	14:52:11	15268	65.0	9.2	17.2	16.6	16.5	15.6		75.2	14.9	4.4	32.7	4.1		56.1	65.0
73.9	69	2	17	15:07:00	15824	69.0	9.4	12.5	12.6	11.6	11.1	11.5	68.6	15.3	4.4	27.6	4.1	4.2	55.6	62.0
73.9	70	1	17	15:07:01	15825	70.0	9.2	17.5	17.5	16.7	15.6		76.5	14.8	4.4	32.7	4.1		56.0	65.0
73.0	60	2	18	15:22:39	16444	60.0	9.4	12.1	12.4	10.7	10.4	10.6	65.7	15.2	4.4	27.4	4.2	4.2	55.4	62.0
73.0	59	1	18	15:22:41	16446	59.0	9.3	16.8	15.9	16.5	15.3		73.7	14.8	4.5	32.6	4.1		56.0	66.0
72.2	64	2	19	15:38:39	17055	64.0	9.2	12.6	12.6	11.0	10.3	12.0	67.7	15.3	4.4	27.4	4.2	4.1	55.4	61.0
72.2	63	1	19	15:38:42	17059	63.0	9.7	16.9	15.7	16.5	15.4		74.3	14.9	4.4	32.6	4.1		56.0	66.0
71.1	70	2	20	15:55:05	17714	70.0	9.1	12.5	11.9	11.1	9.6	10.8	65.0	15.3	4.4	27.5	4.2	4.1	55.5	62.0
71.1	69	1	20	15:55:11	17717	68.0	9.4	17.0	16.6	16.9	15.0		74.9	14.8	4.4	32.6	4.1		55.9	65.0

Recorded By: _____ ar _____	Verified By: _____ kt _____	Run Set _____ Post _____
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Traffic Sheet 22 LTPP MONITORED TRAFFIC DATA SITE EQUIPMENT ASSESSMENT LTPP LANE ONLY	STATE CODE: 47 SPS WIM ID: 470600 STATE ASSIGNED ID 0 DATE (mm/dd/yyyy) 2/15/2011
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SITE EQUIPMENT INFORMATION

1. TYPE OF EQUIPMENT BOTH
2. LANE NUMBER ON SITE 4 3. DIRECTION ON SITE west
4. VENDOR IRD MODEL iSINC SERIAL# 60904173
5. WEIGHING SENSOR TYPE quartz
6. SYSTEM SOFTWARE VERSIONS:
- CPU
- LOOP
- PIEZO
- WEIGHTPAD/ LOADCELL
- COMMUNICATIONS
7. CLASSIFICATION VIDEO:
- TIME FROM: TO:
- TIME FROM: TO:

SITE CONDITIONS

8. PAVEMENT:

Indicate any deficiencies that may affect the performance of the WIM system. List all photos on Sheet 24 that support the evaluation.

there were no pavement deficiencies noted that appear to affect the accuracies of the WIM system

Traffic Sheet 22 LTPP MONITORED TRAFFIC DATA SITE EQUIPMENT ASSESSMENT LTPP LANE ONLY	STATE CODE: 47 SPS WIM ID: 470600 STATE ASSIGNED ID 0 DATE (mm/dd/yyyy) 2/15/2011
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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.

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.

no adverse truck behaviors observed

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: 47 SPS WIM ID: 470600 STATE ASSIGNED ID 0 DATE (mm/dd/yyyy) 2/15/2011
--	---

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: 47 SPS WIM ID: 470600 STATE ASSIGNED ID 0 DATE (mm/dd/yyyy) 2/15/2011
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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>66.6</u> mph	Average WIM Speed	<u>66.5</u> mph
Mean Difference	<u>-0.2</u> mph	SD of mean	<u>1.4</u>
Posted Speed Limit	<u>70</u> mph		
Speed Range	15th percentile - <u>63</u> mph	85th percentile-	<u>71</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>4.42</u>	ft (WIM system average)
= <u>4.0</u> %			
Average front axle weight for Class 9 vehicles		<u> </u> lbs	
% error from 10.3 kips (industry average) OR		<u>9.4</u>	lbs (known site value)
= <u>-9.2</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 ☐

crack in concrete pad

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: 47 SPS WIM ID: 470600 STATE ASSIGNED ID 0 DATE (mm/dd/yyyy) 2/15/2011
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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

Traffic Sheet 22 Addendum - Kistler Quartz LTPP MONITORED TRAFFIC DATA SITE EQUIPMENT ASSESSMENT LTPP LANE ONLY	STATE CODE: 47 SPS WIM ID: 470600 STATE ASSIGNED ID 0 DATE (mm/dd/yyyy) 2/15/2011
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STATIC EQUIPMENT VALUES (SYSTEM OFF)

1. POWER

a. Solar Panel		WATTS		VDC
b. Equipment Power	123.6	VAC		VDC
c. Battery 1	13.4	VDC		
d. Battery 2		VDC		
e. Regulated		VDC		
f. Power Supply	123.6	VDC	13.4	VDC
g. System Input		VAC	11.99	VDC
h. Modem Power		VAC		VDC
i. Telephone	53.4	VDC		

2. LOOP SENSORS

	Resistance		Inductance		Shield	
a. Leading	1.9	Ω	138.5	μh	N/A	MΩ
b. Trailing	0.8	Ω	122.7	μh	N/A	MΩ

3. KISTLER SENSORS

	Resistance		Capacitance	
a. K1 (lead/left)	10 ¹⁰	Ω	10.04	nf
b. K2 (lead/middle)		Ω		nf
c. K3 (lead mid/right)		Ω		nf
d. K4 (lead/right)	10 ¹⁰	Ω	9.54	nf
e. K5 (trail/left)	10 ¹⁰	Ω	9.64	nf
f. K6 (trail/mid left)		Ω		nf
g. K7 (trail/mid right)		Ω		nf
h. K8 (trail/right)	10 ¹¹	Ω	10.78	nf

DYNAMIC EQUIPMENT VALUES (SYSTEM ON)

4. LOOP SENSORS

	Frequency	
a. Leading	19.5	KHz
b. Trailing	20.3	KHz

5. KISTLER SENSORS

Dynamic testing for the Kistler Quartz sensor is not recommended.

Assessor Kevin Trousdale

Traffic Sheet 24A LTPP MONITORED TRAFFIC DATA SITE PHOTO LOG - Equipment	STATE CODE: 47 SPS WIM ID: 470600 DATE (mm/dd/yyyy) 2/15/2011
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Item	Description	Filename
1	Power Source	470600_power_service_box_2_15_11.jpg
2	Telephone Source	470600_telephone_pedestal_2_15_11.jpg
3	Cabinet Exterior	470600_cabinet_exterior_2_15_11.jpg
4	Cabinet Interior	470600_cabinet_interior_front_2_15_11.jpg
5	Leading weight sensor	470600_leading_WIM_sensor_2_15_11.jpg
6	Trailing weight sensor	470600_trailing_WIM_sensor_2_15_11.jpg
7	Leading classification sensor	
8	Trailing classification sensor	
9	Leading loop sensor	470600_leading_loop_sensor_2_15_11.jpg
10	Trailing loop sensor	470600_trailing_loop_sensor_2_15_11.jpg
11	Downstream from site	470600_downstream_2_15_11.jpg
12	Upstream from site	470600_upstream_2_15_11.jpg
13	Cabinet Interior - Rear	470600_cabinet_interior_rear_2_15_11.jpg
14		
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
27		
28		
29		
30		

RECORDED BY: _____ Dean J. Wolf

Traffic Sheet 24B LTPP MONITORED TRAFFIC DATA SITE PHOTO LOG - Test Trucks	STATE CODE: 47 SPS WIM ID: 470600 DATE (mm/dd/yyyy) 2/15/2011
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Item	Description	Filename
1	Tractor, Truck #1	470600_Truck_1_Tractor_2_15_11.jpg
2	Trailer/Load, Truck #1	470600_Truck_1_Trailer_2_15_11.jpg
3	Kingpin Offset, Truck #1	
4	Suspension A, Truck #1	470600_Truck_1_Suspension_1_2_15_11.jpg
5	Suspension B, Truck #1	470600_Truck_1_Suspension_2_3_2_15_11.jpg
6	Suspension C, Truck #1	
7	Suspension D, Truck #1	470600_Truck_1_Suspension_4_5_2_15_11.jpg
8	Suspension E, Truck #1	
9	Suspension F, Truck #1	
10	Tractor, Truck #2	470600_Truck_2_Tractor_2_15_11.jpg
11	Trailer/Load, Truck #2	470600_Truck_2_Trailer_2_15_11.jpg
12	Kingpin Offset, Truck #2	
13	Suspension A, Truck #2	470600_Truck_2_Suspension_1_2_15_11.jpg
14	Suspension B, Truck #2	470600_Truck_2_Suspension_2_3_2_15_11.jpg
15	Suspension C, Truck #2	
16	Suspension D, Truck #2	470600_Truck_2_Suspension_4_5_2_15_11.jpg
17	Suspension E, Truck #2	
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