WIM System Field Calibration and Validation Handout Guide

Washington, SPS-2
SHRP ID – 530200

Validation Date: May 1, 2012

Table of Contents

1 Site Information

Site ID:	530200	**State:**	Washington
LTPP Region:	Western	**Configuration:**	Loop – Quartz- Quartz- Loop
Controller Type:	IRD 1060	**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	Anthony Sarhan	Division Office	360-753-9412	Anthony.Sarhan@dot.gov
RSC	Kevin Senn	Project Manager	775-329-4955	KSenn@ncenet.com
WA DOT	Jeff Uhlmeyer	LTPP Coordinator	360-709-5485	uhlmeyj@wsdot.wa.gov
WA DOT	Hoang Nguyen	Traffic	360-570-2389	nguyehv@wsdot.wa.gov
WADOT	Mark Finch	Traffic Coordinator	360-570-2369	finchm@wsdot.wa.gov
ARA	Dean Wolf	Task Leader	717-512-6638	dwolf@ara.com
ARA	Olga Selezneva	Project Manager	410-540-9949	oselezneva@ara.com

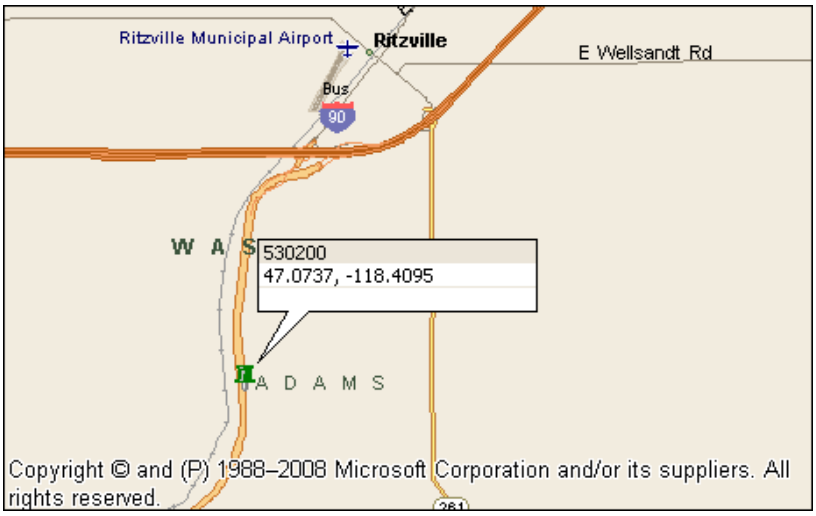
3 Schedule of Events

Date	Event	Location	Start Time
4/30/12	Travel	Ritzville, WA	TBD
5/1/12	Test Truck Weigh/Measure/Inspection	State Scales, I-90 WB Exit 231 Tokio	6:30 am
5/1/12	Equipment Assessment	WIM Site	8:00 am
5/1/12	Initial Performance Evaluation	WIM Site	8:30 am
5/1/12	System Test/Class and Speed Study	WIM Site	TBD
5/2/12	Test Truck Weigh	State Scales, I-90 WB Exit 231 Tokio	6:30 am
5/2/12	Calibration/Validation (if required)	WIM Site	7:30 am
5/3/12	Travel	Camp Hill, PA	TBD

4 Maps

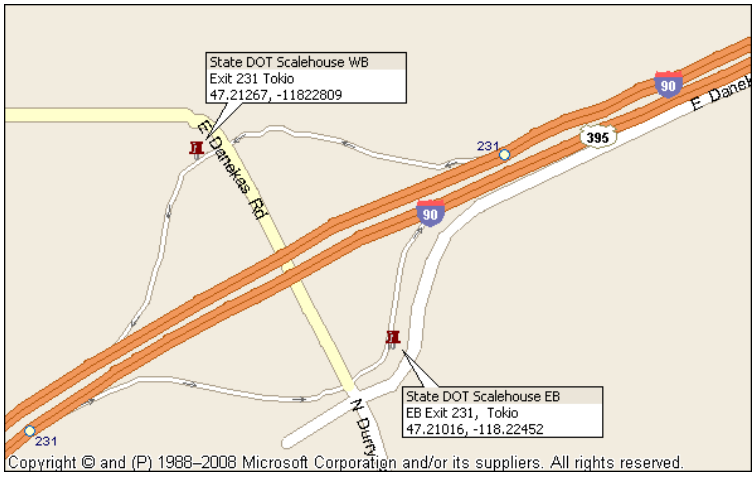
4.1 Site Location

Location:	US-395 at M.P. 93.01, 3.1 miles south of Interstate 90			**Dir:**	NB
Latitude:	47.0737°	**Longitude:**	-118.4095°		



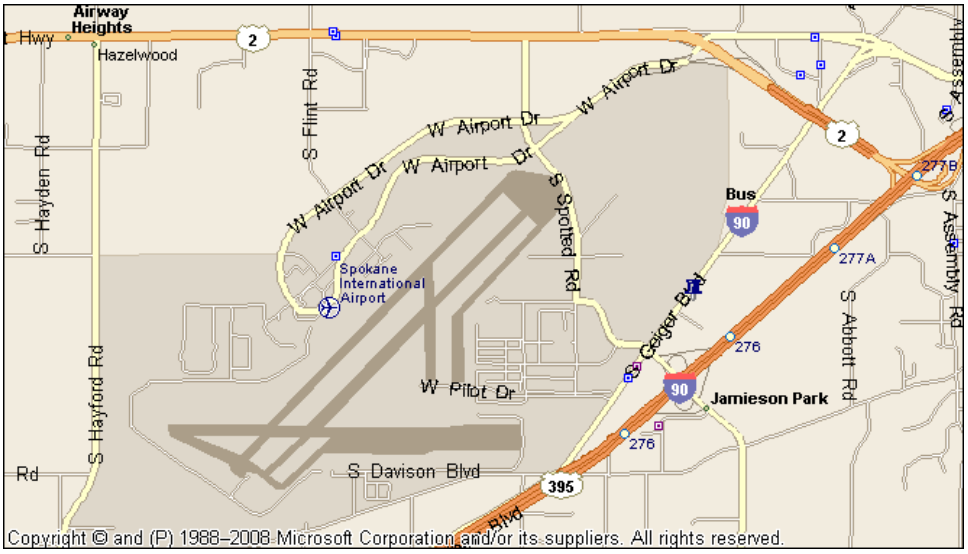
4.2 Truck Scale Location

Name:	State DOT Scale house #68	**Location:**	WB I-90 @ Exit 231 Tokio
Latitude:	47.21058°	**Longitude:**	-118.224203°



4.3 Airport Location

Name:	Spokane International Aiport	**Location:**	Spokane, WA
Latitude:	47.625	**Longitude:**	-117.5738



4.4 Hospital Location

Name:	East Adams Rural Hospital-ER		
Phone:	509-659-1200	**Location:**	903 South Adams Street, Ritzville, WA

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: 53 SPS WIM ID: 530200 DATE (mm/dd/yyyy) 5/1/2012

1. ROUTE: US-395 **MILEPOST:** 93.01 **LTPP DIRECTION:** north

2. WIM SITE DESCRIPTION

Grade: 1 to 2% Sag Vertical: N
Nearest Upstream SPS Section: 205
Distance from sensors to SPS Section: 0 feet

3. LANE CONFIGURATION

Lanes in LTPP direction: 2 Median: 3 - grass
Lane width: 12' Shoulder: 2 - paved AC
Shoulder width: 10.5'

4. PAVEMENT TYPE PCC

5. PAVEMENT SURFACE CONDITION - Distress Survey

Date: 5/1/12 Photo Filename: 530200_downstream_5_01_12.jpg
Date: 5/1/12 Photo Filename: 530200_trailing_loop_5_01_12.jpg
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	STATE CODE:	53
LTPP MONITORED TRAFFIC DATA	SPS WIM ID:	530200
WIM SITE INVENTORY	DATE (mm/dd/yyyy)	5/1/2012

10. CABINET LOCATION

Same side of road as LTPP lane: Y
Distance from edge of traveled lane: 83 ft
distance from system: 90 ft
type: M

Cabinet access controlled by: Agency
Contact name: Hoang Nguyen Phone # 360-570-2389
Alternate name: Phone #

11. POWER

Distance to cabinet from drop: 160 ft
Type: AC
AC in cabinet? Y
Service provider: Phone #

12. TELEPHONE

Distance to cabinet from drop: 160 ft
Type: landline
Service provider: Phone #

13. SYSTEM

Software and version no. 1068
Computer connection: RS-232

14. TEST TRUCK TURNAROUND TIME

Duration: 21 minutes Distance: 19.2 miles

15. PHOTOS

	Filename
Power source:	530200_power_service_box_5_01_12.jpg
Phone source:	530200_telephone_pedestal_5_01_12.jpg
Cabinet exterior:	530200_cabinet_exterior_5_01_12.jpg
Cabinet interior:	530200_cabinet_interior_front_5_01_12.jpg
Weight sensors:	530200_leading_WIM_sensor_5_01_12.jpg
	530200_trailing_WIM_sensor_5_01_12.jpg
Other sensors:	530200_leading_loop_5_01_12.jpg
	530200_trailing_loop_5_01_12.jpg
Downstream from sensors on LTPP lane:	530200_downstream_5_01_12.jpg
Upstream from sensors on LTPP lane:	530200_upstream_5_01_12.jpg

Traffic Sheet 18 LTPP MONITORED TRAFFIC DATA WIM SITE COORDINATION	STATE CODE: 53 SPS WIM ID: 530200 DATE (mm/dd/yyyy) 5/1/2012

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 Asphalt Concrete

b. Allowable Rehabilitation activities Maintenance only

c. Profile Site Markings Temporary

Traffic Sheet 18 LTPP MONITORED TRAFFIC DATA WIM SITE COORDINATION	STATE CODE: 53 SPS WIM ID: 530200 DATE (mm/dd/yyyy) 5/1/2012

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:
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: 53 SPS WIM ID: 530200 DATE (mm/dd/yyyy) 5/1/2012

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 Basel Abukhater Phone # 716-632-0804
Agency Stantec

d. Construction schedule and verification
Name _____ Phone # _____
Agency _____

e. Test Vehicles (trucks, loads, drivers)
Name _____ Phone # _____
Agency _____

f. Traffic control
Name _____ Phone # _____
Agency _____

g. Enforcement coordination
Name _____ Phone # _____
Agency _____

h. Nearest static scale
Name _____ Location: _____
Phone: _____

Traffic Sheet 19	STATE CODE:	53
LTPP MONITORED TRAFFIC DATA	SPS WIM ID:	530200
CALIBRATION TEST TRUCK # 1	DATE (mm/dd/yyyy)	5/1/2012

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		11880	11620	Direct
B		15820	15640	Direct
C		16040	15630	Direct
D		16310	16240	Direct
E		16400	16410	Direct
F				

4. GVW (same units as axles)

a. Empty GVW:
b. Average Pre-Test Loaded weight: 76450
c. Post Test Loaded Weight: 75540
d. Difference Post Test - Pre-Tests: -910

5. TRUCK DESCRIPTION

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

b. Make: Freightliner
c. Model: 2010

d. Trailer Load Distribution Description:
concrete blocks
photo: ☑

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

A to B 18.3 B to C 4.3 C to D 29.3 D to E 4.0 E to F

h. Wheelbase - ☐ Measured ☑ Computed 55.9
i. Kingpin offset from Axle B (units) -1.5' photo: ☐
j. Overall Length - ☑ Measured 62.3

Traffic Sheet 19 LTPP MONITORED TRAFFIC DATA CALIBRATION TEST TRUCK # 1	STATE CODE: 53 SPS WIM ID: 530200 DATE (mm/dd/yyyy) 5/1/2012

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	AxleD	AxleE	Axle F

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	STATE CODE:	53
LTPP MONITORED TRAFFIC DATA	SPS WIM ID:	530200
CALIBRATION TEST TRUCK # 1	DATE (mm/dd/yyyy)	5/1/2012

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	STATE CODE:	53
LTPP MONITORED TRAFFIC DATA	SPS WIM ID:	530200
CALIBRATION TEST TRUCK # 1	DATE (mm/dd/yyyy)	5/1/2012

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	11880	15820	16040	16320	16400		76460
2	11880	15820	16040	16300	16400		76440
Avg.	11880	15820	16040	16310	16400		76450

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	11680	15600	15720	16220	16360		75580
2	11560	15680	15540	16260	16460		75500
Avg.	11620	15640	15630	16240	16410		75540

Validation Test Truck Run Set - Pre

Measured By: Kevin Trousdale

Verified By: Aditya Ramachandran

Traffic Sheet 19	STATE CODE:	53
LTPP MONITORED TRAFFIC DATA	SPS WIM ID:	530200
CALIBRATION TEST TRUCK # 1	DATE (mm/dd/yyyy)	5/2/2012

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		11940	0	Direct
B		15720	0	Direct
C		15310	0	Direct
D		16240	0	Direct
E		16350	0	Direct
F				

4. **GVW (same units as axles)**
   - a. Empty GVW:
   - b. Average Pre-Test Loaded weight: 75560
   - c. Post Test Loaded Weight: 0
   - d. Difference Post Test - Pre-Tests: -75560

5. **TRUCK DESCRIPTION**
   - a. Tractor Cab Style: Conventional Sleeper Cab: Yes
     photo: ☑
   - b. Make: Freightliner
   - c. Model: 2010
   - d. Trailer Load Distribution Description:

     concrete blocks

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

A to B 18.3 B to C 4.3 C to D 29.3 D to E 4.0 E to F

   - h. Wheelbase - ☐ Measured ☑ Computed 55.9
   - i. Kingpin offset from Axle B (units) -1.5' photo: ☐
   - j. Overall Length - ☑ Measured 62.3

Traffic Sheet 19 LTPP MONITORED TRAFFIC DATA CALIBRATION TEST TRUCK # 1	STATE CODE: 53 SPS WIM ID: 530200 DATE (mm/dd/yyyy) 5/2/2012

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	AxleD	AxleE	Axle F

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	STATE CODE:	53
LTPP MONITORED TRAFFIC DATA	SPS WIM ID:	530200
CALIBRATION TEST TRUCK # 1	DATE (mm/dd/yyyy)	5/2/2012

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	STATE CODE:	53
LTPP MONITORED TRAFFIC DATA	SPS WIM ID:	530200
CALIBRATION TEST TRUCK # 1	DATE (mm/dd/yyyy)	5/2/2012

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	11760	15580	15500	16080	16360		75280
2	12120	15860	15120	16400	16340		75840
Avg.	11940	15720	15310	16240	16350		75560

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: Aditya Ramachandran

Traffic Sheet 19	STATE CODE:	53
LTPP MONITORED TRAFFIC DATA	SPS WIM ID:	530200
CALIBRATION TEST TRUCK # 1	DATE (mm/dd/yyyy)	5/2/2012

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		11940	0	Direct
B		15720	0	Direct
C		15310	0	Direct
D		16240	0	Direct
E		16350	0	Direct
F				

4. GVW (same units as axles)

a. Empty GVW:
b. Average Pre-Test Loaded weight: 75560
c. Post Test Loaded Weight: 0
d. Difference Post Test - Pre-Tests: -75560

5. TRUCK DESCRIPTION

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

b. Make: Freightliner
c. Model: 2010

d. Trailer Load Distribution Description:
concrete blocks
photo: ☑

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

A to B 18.3 B to C 4.3 C to D 29.3 D to E 4.0 E to F

h. Wheelbase - ☐ Measured ☑ Computed 55.9
i. Kingpin offset from Axle B (units) -1.5' photo: ☐
j. Overall Length - ☑ Measured 62.3

Traffic Sheet 19	STATE CODE:	53
LTPP MONITORED TRAFFIC DATA	SPS WIM ID:	530200
CALIBRATION TEST TRUCK # 1	DATE (mm/dd/yyyy)	5/2/2012

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	AxleD	AxleE	Axle F

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	STATE CODE:	53
LTPP MONITORED TRAFFIC DATA	SPS WIM ID:	530200
CALIBRATION TEST TRUCK # 1	DATE (mm/dd/yyyy)	5/2/2012

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	STATE CODE:	53
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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	11760	15580	15500	16080	16360		75280
2	12120	15860	15120	16400	16340		75840
Avg.	11940	15720	15310	16240	16350		75560

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: Kevin Trousdale

Verified By: Aditya Ramachandran

Traffic Sheet 19	STATE CODE:	53
LTPP MONITORED TRAFFIC DATA	SPS WIM ID:	530200
CALIBRATION TEST TRUCK # 1	DATE (mm/dd/yyyy)	5/2/2012

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		11940	0	Direct
B		15720	0	Direct
C		15310	0	Direct
D		16240	0	Direct
E		16350	0	Direct
F				

4. **GVW (same units as axles)**
   - a. Empty GVW:
   - b. Average Pre-Test Loaded weight: 75560
   - c. Post Test Loaded Weight: 0
   - d. Difference Post Test - Pre-Tests: -75560

5. **TRUCK DESCRIPTION**
   - a. Tractor Cab Style: Conventional Sleeper Cab: Yes
     photo: ☑
   - b. Make: Freightliner
   - c. Model: 2010
   - d. Trailer Load Distribution Description:

     concrete blocks

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

A to B 18.3 B to C 4.3 C to D 29.3 D to E 4.0 E to F

   - h. Wheelbase - ☐ Measured ☑ Computed 55.9
   - i. Kingpin offset from Axle B (units) -1.5' photo: ☐
   - j. Overall Length - ☑ Measured 62.3

Traffic Sheet 19	STATE CODE:	53
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CALIBRATION TEST TRUCK # 1	DATE (mm/dd/yyyy)	5/2/2012

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	AxleD	AxleE	Axle F

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	STATE CODE:	53
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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	STATE CODE:	53
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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	11760	15580	15500	16080	16360		75280
2	12120	15860	15120	16400	16340		75840
Avg.	11940	15720	15310	16240	16350		75560

Table 7- Raw Data- Axle scales -

Pass	Axle A	Axle B	Axle C	Axle D	Axle E	Axle F	GVW
1	11320	15320	15740	15520	16300		74200
2	11920	15340	15300	16160	16320		75040
Avg.	11620	15330	15520	15840	16310		74620

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 3

Measured By: Kevin Trousdale

Verified By: Aditya Ramachandran

Traffic Sheet 19	STATE CODE:	53
LTPP MONITORED TRAFFIC DATA	SPS WIM ID:	530200
CALIBRATION TEST TRUCK # 1	DATE (mm/dd/yyyy)	5/2/2012

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		11940	11740	Direct
B		15720	15940	Direct
C		15310	15880	Direct
D		16240	16360	Direct
E		16350	16410	Direct
F				

4. GVW (same units as axles)

a. Empty GVW:
b. Average Pre-Test Loaded weight: 75560
c. Post Test Loaded Weight: 76330
d. Difference Post Test - Pre-Tests: 770

5. TRUCK DESCRIPTION

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

b. Make: Freightliner
c. Model: 2010

d. Trailer Load Distribution Description:
concrete blocks
photo: ☑

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

A to B 18.3 B to C 4.3 C to D 29.3 D to E 4.0 E to F

h. Wheelbase - ☐ Measured ☑ Computed 55.9
i. Kingpin offset from Axle B (units) -1.5' photo: ☐
j. Overall Length - ☑ Measured 62.3

Traffic Sheet 19	STATE CODE:	53
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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	285/75R 24.5	steel spring	☑
B	275/80R 24.5	air	☑
C	275/80R 24.5	air	☑
D	285/75R 24.5	air	☑
E	285/75R 24.5	air	☑
F			☐

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

Steering Axle	Axle B	Axle C	AxleD	AxleE	Axle F
	100.8	101.2	105.4	107.3	
106.1	100.2	95.4	99.4	102.7	
104.9	99.6	100.5	100.0	106.9	
	100.2	99.6	99.8	108.1	

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	STATE CODE:	53
LTPP MONITORED TRAFFIC DATA	SPS WIM ID:	530200
CALIBRATION TEST TRUCK # 1	DATE (mm/dd/yyyy)	5/2/2012

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	STATE CODE:	53
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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	11760	15580	15500	16080	16360		75280
2	12120	15860	15120	16400	16340		75840
Avg.	11940	15720	15310	16240	16350		75560

Table 7- Raw Data- Axle scales -

Pass	Axle A	Axle B	Axle C	Axle D	Axle E	Axle F	GVW
1	11320	15320	15740	15520	16300		74200
2	11920	15340	15300	16160	16320		75040
Avg.	11620	15330	15520	15840	16310		74620

Table 8- Raw Data- Axle scales -

Pass	Axle A	Axle B	Axle C	Axle D	Axle E	Axle F	GVW
1	11860	15700	15880	16040	16360		75840
2	12340	15780	15300	16420	16420		76260
Avg.	12100	15740	15590	16230	16390		76050

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

Pass	Axle A	Axle B	Axle C	Axle D	Axle E	Axle F	GVW
1	11380	15920	16020	16200	16460		75980
2	12100	15960	15740	16520	16360		76680
Avg.	11740	15940	15880	16360	16410		76330

Validation Test Truck Run Set - Post

Measured By: Kevin Trousdale

Verified By: Aditya Ramachandran

Traffic Sheet 19	STATE CODE:	53
LTPP MONITORED TRAFFIC DATA	SPS WIM ID:	530200
CALIBRATION TEST TRUCK # 2	DATE (mm/dd/yyyy)	5/1/2012

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		11800	10990	Direct
B		12540	12480	Direct
C		12320	12530	Direct
D		10660	10680	Direct
E		9290	9275	Direct
F		8735	8735	Direct

4. **GVW (same units as axles)**
   - a. Empty GVW:
   - b. Average Pre-Test Loaded weight: 65345
   - c. Post Test Loaded Weight: 64690
   - d. Difference Post Test - Pre-Tests: -655

5. **TRUCK DESCRIPTION**
   - a. Tractor Cab Style: Conventional Sleeper Cab: Yes
     photo: ☑
   - b. Make: Freightliner
   - c. Model: 2010
   - d. Trailer Load Distribution Description:
     pelletized bagged silicone
     photo: ☑
   - e. Tractor Tare weight - _____ - _____
   - f. Trailer Tare weight - _____ - _____
   - g. Axle Spacing - (feet and tenths)

A to B 18.2 B to C 4.2 C to D 25.3 D to E 4.8 E to F 5.2

   - h. Wheelbase - ☐ Measured _____ ☑ Computed 57.7
   - i. Kingpin offset from Axle B (units) -2.0' photo: ☐
   - j. Overall Length - ☑ Measured 63.8

Traffic Sheet 19 LTPP MONITORED TRAFFIC DATA CALIBRATION TEST TRUCK # 2	STATE CODE: 53 SPS WIM ID: 530200 DATE (mm/dd/yyyy) 5/1/2012

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	AxleD	AxleE	Axle F

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	STATE CODE:	53
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CALIBRATION TEST TRUCK # 2	DATE (mm/dd/yyyy)	5/1/2012

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	STATE CODE:	53
LTPP MONITORED TRAFFIC DATA	SPS WIM ID:	530200
CALIBRATION TEST TRUCK # 2	DATE (mm/dd/yyyy)	5/1/2012

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	11800	12540	12320	10660	9340	8700	65360
2	11800	12540	12320	10660	9240	8770	65330
Avg.	11800	12540	12320	10660	9290	8735	65345

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	10960	12400	12560	10500	9320	8700	64440
2	11020	12560	12500	10860	9230	8770	64940
Avg.	10990	12480	12530	10680	9275	8735	64690

Validation Test Truck Run Set - Pre

Measured By: Kevin Trousdale

Verified By: Aditya Ramachandran

Traffic Sheet 19	STATE CODE:	53
LTPP MONITORED TRAFFIC DATA	SPS WIM ID:	530200
CALIBRATION TEST TRUCK # 2	DATE (mm/dd/yyyy)	5/2/2012

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		11900	0	Direct
B		12700	0	Direct
C		12750	0	Direct
D		10940	0	Direct
E		9290	0	Direct
F		8430	0	Direct

4. **GVW (same units as axles)**
   - a. Empty GVW:
   - b. Average Pre-Test Loaded weight: 66010
   - c. Post Test Loaded Weight: 0
   - d. Difference Post Test - Pre-Tests: -66010

5. **TRUCK DESCRIPTION**
   - a. Tractor Cab Style: Conventional Sleeper Cab: Yes
     photo: ☑
   - b. Make: Freightliner
   - c. Model: 2010
   - d. Trailer Load Distribution Description:
     pelletized bagged silicone
     photo: ☑
   - e. Tractor Tare weight - _____ - _____
   - f. Trailer Tare weight - _____ - _____
   - g. Axle Spacing - (feet and tenths)

A to B 18.2 B to C 4.2 C to D 25.3 D to E 4.8 E to F 5.2

   - h. Wheelbase - ☐ Measured _____ ☑ Computed 57.7
   - i. Kingpin offset from Axle B (units) -2.0' photo: ☐
   - j. Overall Length - ☑ Measured 63.8

Traffic Sheet 19	STATE CODE:	53
LTPP MONITORED TRAFFIC DATA	SPS WIM ID:	530200
CALIBRATION TEST TRUCK # 2	DATE (mm/dd/yyyy)	5/2/2012

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	AxleD	AxleE	Axle F

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	STATE CODE:	53
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CALIBRATION TEST TRUCK # 2	DATE (mm/dd/yyyy)	5/2/2012

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	STATE CODE:	53
LTPP MONITORED TRAFFIC DATA	SPS WIM ID:	530200
CALIBRATION TEST TRUCK # 2	DATE (mm/dd/yyyy)	5/2/2012

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	11880	12560	12620	10700	9340	8760	65860
2	11920	12840	12880	11180	9240	8100	66160
Avg.	11900	12700	12750	10940	9290	8430	66010

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: Aditya Ramachandran

Traffic Sheet 19	STATE CODE:	53
LTPP MONITORED TRAFFIC DATA	SPS WIM ID:	530200
CALIBRATION TEST TRUCK # 2	DATE (mm/dd/yyyy)	5/2/2012

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		11900	0	Direct
B		12700	0	Direct
C		12750	0	Direct
D		10940	0	Direct
E		9290	0	Direct
F		8430	0	Direct

4. **GVW (same units as axles)**
   - a. Empty GVW:
   - b. Average Pre-Test Loaded weight: 66010
   - c. Post Test Loaded Weight: 0
   - d. Difference Post Test - Pre-Tests: -66010

5. **TRUCK DESCRIPTION**
   - a. Tractor Cab Style: Conventional Sleeper Cab: Yes
     photo: ☑
   - b. Make: Freightliner
   - c. Model: 2010
   - d. Trailer Load Distribution Description:
     pelletized bagged silicone
     photo: ☑
   - e. Tractor Tare weight - _____ - _____
   - f. Trailer Tare weight - _____ - _____
   - g. Axle Spacing - (feet and tenths)

A to B 18.2 B to C 4.2 C to D 25.3 D to E 4.8 E to F 5.2

   - h. Wheelbase - ☐ Measured _____ ☑ Computed 57.7
   - i. Kingpin offset from Axle B (units) -2.0' photo: ☐
   - j. Overall Length - ☑ Measured 63.8

Traffic Sheet 19	STATE CODE:	53
LTPP MONITORED TRAFFIC DATA	SPS WIM ID:	530200
CALIBRATION TEST TRUCK # 2	DATE (mm/dd/yyyy)	5/2/2012

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	AxleD	AxleE	Axle F

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	STATE CODE:	53
LTPP MONITORED TRAFFIC DATA	SPS WIM ID:	530200
CALIBRATION TEST TRUCK # 2	DATE (mm/dd/yyyy)	5/2/2012

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	STATE CODE:	53
LTPP MONITORED TRAFFIC DATA	SPS WIM ID:	530200
CALIBRATION TEST TRUCK # 2	DATE (mm/dd/yyyy)	5/2/2012

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	11880	12560	12620	10700	9340	8760	65860
2	11920	12840	12880	11180	9240	8100	66160
Avg.	11900	12700	12750	10940	9290	8430	66010

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: Kevin Trousdale

Verified By: Aditya Ramachandran

Traffic Sheet 19	STATE CODE:	53
LTPP MONITORED TRAFFIC DATA	SPS WIM ID:	530200
CALIBRATION TEST TRUCK # 2	DATE (mm/dd/yyyy)	5/2/2012

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		11900	0	Direct
B		12700	0	Direct
C		12750	0	Direct
D		10940	0	Direct
E		9290	0	Direct
F		8430	0	Direct

4. **GVW (same units as axles)**
   - a. Empty GVW:
   - b. Average Pre-Test Loaded weight: 66010
   - c. Post Test Loaded Weight: 0
   - d. Difference Post Test - Pre-Tests: -66010

5. **TRUCK DESCRIPTION**
   - a. Tractor Cab Style: Conventional Sleeper Cab: Yes
     photo: ☑
   - b. Make: Freightliner
   - c. Model: 2010
   - d. Trailer Load Distribution Description:
     pelletized bagged silicone
     photo: ☑
   - e. Tractor Tare weight - _____ - _____
   - f. Trailer Tare weight - _____ - _____
   - g. Axle Spacing - (feet and tenths)

A to B 18.2 B to C 4.2 C to D 25.3 D to E 4.8 E to F 5.2

   - h. Wheelbase - ☐ Measured _____ ☑ Computed 57.7
   - i. Kingpin offset from Axle B (units) -2.0' photo: ☐
   - j. Overall Length - ☑ Measured 63.8

Traffic Sheet 19	STATE CODE:	53
LTPP MONITORED TRAFFIC DATA	SPS WIM ID:	530200
CALIBRATION TEST TRUCK # 2	DATE (mm/dd/yyyy)	5/2/2012

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	AxleD	AxleE	Axle F

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	STATE CODE:	53
LTPP MONITORED TRAFFIC DATA	SPS WIM ID:	530200
CALIBRATION TEST TRUCK # 2	DATE (mm/dd/yyyy)	5/2/2012

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	STATE CODE:	53
LTPP MONITORED TRAFFIC DATA	SPS WIM ID:	530200
CALIBRATION TEST TRUCK # 2	DATE (mm/dd/yyyy)	5/2/2012

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	11880	12560	12620	10700	9340	8760	65860
2	11920	12840	12880	11180	9240	8100	66160
Avg.	11900	12700	12750	10940	9290	8430	66010

Table 7- Raw Data- Axle scales -

Pass	Axle A	Axle B	Axle C	Axle D	Axle E	Axle F	GVW
1	11340	12420	12120	10920	9400	8520	64720
2	10880	12820	12500	11260	9000	8040	64500
Avg.	11110	12620	12310	11090	9200	8280	64610

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 3

Measured By: Kevin Trousdale

Verified By: Aditya Ramachandran

Traffic Sheet 19	STATE CODE:	53
LTPP MONITORED TRAFFIC DATA	SPS WIM ID:	530200
CALIBRATION TEST TRUCK # 2	DATE (mm/dd/yyyy)	5/2/2012

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		11900	11330	Direct
B		12700	12640	Direct
C		12750	12520	Direct
D		10940	11240	Direct
E		9290	9450	Direct
F		8430	8240	Direct

4. **GVW (same units as axles)**
   a. Empty GVW:
   b. Average Pre-Test Loaded weight: 66010
   c. Post Test Loaded Weight: 65420
   d. Difference Post Test - Pre-Tests: -590

5. **TRUCK DESCRIPTION**
   a. Tractor Cab Style: Conventional Sleeper Cab: Yes
   photo: ☑

   b. Make: Freightliner
   c. Model: 2010

   d. Trailer Load Distribution Description:
   pelletized bagged silicone
   photo: ☑

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

A to B 18.2 B to C 4.2 C to D 25.3 D to E 4.8 E to F 5.2

   h. Wheelbase - ☐ Measured ☑ Computed 57.7
   i. Kingpin offset from Axle B (units) -2.0' photo: ☐
   j. Overall Length - ☑ Measured 63.8

Traffic Sheet 19	STATE CODE:	53
LTPP MONITORED TRAFFIC DATA	SPS WIM ID:	530200
CALIBRATION TEST TRUCK # 2	DATE (mm/dd/yyyy)	5/2/2012

CALIBRATION TEST TRUCK - Secondary

6. SUSPENSION

	a. Tire size	b.Suspension description (leaf, air # of leaves, taper or flat leaf, etc.)	c. photo
A	285/75R 24.5	steel spring	☑
B	285/75R 24.5	air	☑
C	285/75R 24.5	air	☑
D	11R 22.5	air	☑
E	11R 22.5	air	☑
F	11R 22.5	air	☐

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

Steering Axle	Axle B	Axle C	AxleD	AxleE	Axle F
	99.0	100.2	105.7	108.4	103.4
101.3	99.7	99.3	104	96.1	97.1
100.1	98.6	99.8	106.3	103.7	106.5
	99.4	100.3	101.2	100.5	108.8

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	STATE CODE:	53
LTPP MONITORED TRAFFIC DATA	SPS WIM ID:	530200
CALIBRATION TEST TRUCK # 2	DATE (mm/dd/yyyy)	5/2/2012

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	STATE CODE:	53
LTPP MONITORED TRAFFIC DATA	SPS WIM ID:	530200
CALIBRATION TEST TRUCK # 2	DATE (mm/dd/yyyy)	5/2/2012

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	11880	12560	12620	10700	9340	8760	65860
2	11920	12840	12880	11180	9240	8100	66160
Avg.	11900	12700	12750	10940	9290	8430	66010

Table 7- Raw Data- Axle scales -

Pass	Axle A	Axle B	Axle C	Axle D	Axle E	Axle F	GVW
1	11340	12420	12120	10920	9400	8520	64720
2	10880	12820	12500	11260	9000	8040	64500
Avg.	11110	12620	12310	11090	9200	8280	64610

Table 8- Raw Data- Axle scales -

Pass	Axle A	Axle B	Axle C	Axle D	Axle E	Axle F	GVW
1	11840	12580	12600	10800	9240	8200	65260
2	11600	12840	12940	10860	9300	8020	65560
Avg.	11720	12710	12770	10830	9270	8110	65410

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

Pass	Axle A	Axle B	Axle C	Axle D	Axle E	Axle F	GVW
1	11760	12400	12220	11160	9460	8340	65340
2	10900	12880	12820	11320	9440	8140	65500
Avg.	11330	12640	12520	11240	9450	8240	65420

Validation Test Truck Run Set - Post

Measured By: Kevin Trousdale

Verified By: Aditya Ramachandran

Traffic Sheet 21 (Wheel Load)
LTPP MONITORED TRAFFIC DATA
WIM SYSTEM TRUCK RECORDS

STATE CODE: 53
SPS WIM ID: 530200
DATE: (mm/dd/yyyy): 5/1/2012

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
56.6	50	2	1	8:51:38	1286	47.0	11.8	15.3	14.6	13.2	10.2	9.3	74.3	18.1	4.2	25.3	4.8	5.1	57.5	64.0
56.6	50	1	1	8:52:47	1298	48.0	13.1	17.0	16.8	16.9	15.8		79.5	18.2	4.2	29.1	4.1		55.6	62.0
57.0	54	2	2	9:10:38	1429	52.0	10.7	14.0	13.7	12.5	10.2	9.3	70.4	18.1	4.2	25.2	4.8	5.2	57.5	64.0
57.0	54	1	2	9:14:52	1458	52.0	12.7	17.0	16.6	17.6	16.3		80.3	18.3	4.2	29.2	4.1		55.8	62.0
57.0	58	2	3	9:28:04	1549	57.0	10.5	13.8	13.4	12.8	10.2	9.1	69.9	18.2	4.3	25.4	4.8	5.2	57.9	64.0
57.0	59	1	3	9:36:48	1607	58.0	12.5	16.5	16.1	15.3	15.4		75.8	18.2	4.2	29.1	4.0		55.5	62.0
61.4	47	2	4	9:45:30	1657	47.0	10.9	14.3	13.7	13.3	10.0	9.1	71.4	18.1	4.2	25.3	4.8	5.1	57.5	64.0
61.4	52	1	4	9:58:47	1746	49.0	12.6	17.1	16.1	16.4	16.7		78.9	18.3	4.2	29.2	4.1		55.8	62.0
61.4	54	2	5	10:03:08	1780	54.0	10.6	13.8	13.7	13.0	9.5	9.3	69.9	18.2	4.3	25.4	4.8	5.1	57.8	64.0
68.6	56	1	5	10:21:12	1907	54.0	12.3	16.0	15.6	16.4	16.0		76.4	18.2	4.2	29.0	4.1		55.5	62.0
68.6	60	2	6	10:21:14	1909	58.0	12.3	13.0	13.6	11.1	8.6	7.8	66.5	17.9	4.2	25.1	4.8	5.1	57.1	63.0
78.5	49	2	7	11:30:23	2367	47.0	12.5	13.6	13.6	12.2	9.6	8.5	70.0	18.0	4.2	25.2	4.8	5.1	57.3	63.0
78.5	50	1	6	11:31:14	2374	48.0	12.8	16.2	15.9	16.9	15.8		77.5	18.3	4.2	29.2	4.1		55.8	62.0
78.5	54	2	8	11:48:19	2498	54.0	10.4	13.9	13.4	12.6	9.4	9.2	68.9	18.1	4.2	25.3	4.8	5.1	57.5	64.0
78.5	54	1	7	11:53:01	2521	54.0	10.7	16.7	16.0	17.5	17.0		77.9	18.2	4.2	29.3	4.1		55.8	62.0
75.6	58	2	9	12:05:52	2608	57.0	11.8	13.5	13.0	12.1	8.6	8.6	67.7	18.1	4.2	25.3	4.8	5.1	57.5	64.0
73.4	59	1	8	12:14:45	2672	58.0	11.9	16.0	15.5	15.5	13.4		72.4	18.2	4.2	29.2	4.1		55.7	62.0
73.4	48	2	10	12:23:40	2725	48.0	11.2	14.4	13.8	13.2	9.6	9.5	71.7	18.2	4.3	25.4	4.9	5.1	57.9	64.0
72.0	49	1	9	12:36:46	2818	49.0	12.6	15.6	15.3	15.8	16.6		75.9	18.3	4.2	29.1	4.1		55.7	62.0
72.0	57	2	11	12:41:40	2843	57.0	12.3	12.9	13.6	11.9	8.7	8.1	67.6	18.1	4.2	25.2	4.8	5.1	57.4	64.0
70.4	56	1	10	12:58:43	2968	58.0	11.3	16.9	16.6	15.6	20.1		80.5	18.2	4.2	29.3	4.0		55.7	62.0
70.4	58	2	12	12:59:23	2973	46.0	12.4	14.1	13.7	12.6	9.2	8.8	70.8	18.0	4.2	25.2	4.8	5.1	57.3	64.0
66.0	58	2	13	13:17:01	3088	56.0	12.2	13.0	13.6	12.2	8.7	8.2	67.9	18.1	4.2	25.3	4.9	5.1	57.6	64.0
66.0	49	1	11	13:21:03	3111	49.0	11.3	17.0	17.0	16.6	19.3		81.2	18.2	4.2	29.1	4.1		55.6	62.0

Recorded By: kt Verified By: djw Run Set Pre

Traffic Sheet 21 (Wheel Load) LTPP MONITORED TRAFFIC DATA WIM SYSTEM TRUCK RECORDS	STATE CODE: 53 SPS WIM ID: 530200 DATE: (mm/dd/yyyy): 5/1/2012

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
64.6	47	2	14	13:34:47	3216	47.0	12.4	14.5	14.0	12.5	10.6	8.6	72.6	18.0	4.2	25.2	4.8	5.1	57.3	64.0
64.6	54	1	12	13:42:52	3278	54.0	11.0	17.4	16.2	17.2	14.7		76.4	18.3	4.3	29.2	4.1		55.9	62.0
66.9	54	2	15	13:52:41	3345	53.0	12.3	13.8	13.5	12.3	9.8	8.0	69.7	18.1	4.2	25.3	4.8	5.2	57.6	64.0
66.9	58	1	13	14:07:52	3439	58.0	11.8	16.5	16.3	16.4	18.1		79.1	18.3	4.3	29.2	4.0		55.8	63.0
66.7	49	1	14	14:29:39	3604	49.0	12.3	16.8	17.2	16.9	16.7		79.9	18.3	4.2	29.2	4.1		55.8	63.0
66.4	53	2	16	14:45:26	3719	53.0	10.1	14.0	13.8	13.1	10.4	9.5	70.9	18.1	4.2	25.3	4.8	5.1	57.5	64.0
66.4	53	1	15	14:51:46	3755	52.0	12.7	16.7	16.0	16.7	15.0		77.1	18.3	4.2	29.1	4.1		55.7	63.0
65.3	59	2	17	15:02:59	3831	59.0	10.3	13.8	13.7	12.0	9.5	9.0	68.2	18.1	4.3	25.3	4.8	5.1	57.6	64.0
65.3	58	1	16	15:13:31	3917	58.0	12.0	16.5	16.5	16.7	17.8		79.6	18.3	4.3	29.1	4.0		55.7	63.0
65.3	48	2	18	15:20:33	3975	49.0	10.1	14.0	13.8	13.0	10.2	9.2	70.4	18.1	4.2	25.2	4.8	5.1	57.4	64.0
63.5	49	1	17	15:35:46	4095	48.0	12.3	16.9	16.7	16.7	16.2		78.8	18.3	4.2	29.3	4.1		55.9	62.0
63.5	55	2	19	15:38:16	4112	54.0	10.3	13.6	13.5	12.5	10.3	9.7	69.9	18.1	4.2	25.3	4.8	5.1	57.5	64.0
66.8	55	1	18	15:57:55	4255	55.0	12.9	16.5	15.8	16.4	14.3		75.9	18.4	4.2	29.2	4.0		55.8	63.0
66.8	57	2	20	15:58:01	4258	58.0	10.9	14.1	14.5	11.8	9.5	8.9	69.8	18.2	4.2	25.3	4.8	5.1	57.6	64.0
64.9	60	1	19	16:19:36	4420	58.0	11.5	16.9	16.2	17.2	17.7		79.4	18.3	4.2	29.1	4.1		55.7	62.0
64.9	50	1	20	16:41:59	4586	49.0	11.4	16.6	16.3	18.4	14.1		76.9	18.3	4.2	29.1	4.1		55.7	62.0

Recorded By: kt Verified By: djw Run Set Pre

Traffic Sheet 21 (Wheel Load)
LTPP MONITORED TRAFFIC DATA
WIM SYSTEM TRUCK RECORDS

STATE CODE: 53
SPS WIM ID: 530200
DATE: (mm/dd/yyyy): 5/2/2012

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
40.3	50	1	1	7:42:37	852	50.0	13.1	15.8	15.3	15.7	18.4		78.2	18.1	4.2	29.1	4.0		55.4	62.0
40.3	49	2	1	7:42:46	854	47.0	10.4	14.4	13.3	12.3	10.0	8.5	68.9	18.0	4.2	25.4	4.8	5.1	57.5	64.0
45.0	53	1	2	8:04:28	972	54.0	13.1	16.8	16.0	16.7	16.4		79.0	18.3	4.2	29.1	4.1		55.7	62.0
45.0	48	2	2	8:04:39	974	48.0	10.8	14.2	13.4	12.9	10.1	9.1	70.5	18.2	4.3	25.3	4.8	5.1	57.7	64.0
45.4	60	1	3	8:26:08	1100	58.0	12.1	17.1	15.6	16.1	16.9		77.8	18.0	4.2	29.1	4.0		55.3	62.0
45.4	60	2	3	8:26:14	1101	57.0	11.5	14.1	13.8	12.3	10.1	8.5	70.3	18.4	4.2	25.4	4.8	5.2	58.0	65.0
52.6	50	1	4	8:47:56	1229	48.0	12.8	16.2	15.1	16.0	16.9		77.0	18.2	4.3	29.1	4.0		55.6	62.0
52.6	48	2	4	8:48:02	1232	47.0	10.6	14.3	13.1	12.6	9.8	9.1	69.5	18.2	4.3	25.3	4.8	5.1	57.7	64.0
56.8	59	1	5	9:09:33	1359	54.0	12.5	16.4	16.1	16.5	17.5		79.0	18.2	4.2	29.1	4.0		55.5	63.0
56.8	52	2	5	9:09:50	1364	53.0	12.4	13.2	13.2	13.8	9.7	9.7	71.9	18.2	4.2	25.4	4.8	5.1	57.7	64.0
57.3	59	1	6	9:30:59	1519	58.0	12.7	12.6	15.4	15.3	17.4		77.4	18.3	4.2	29.2	4.0		55.7	62.0
57.3	58	2	6	9:31:08	1521	57.0	11.0	13.7	13.9	11.9	9.5	8.2	68.3	18.2	4.2	25.3	4.8	5.1	57.6	63.0

Recorded By: kt Verified By: djw Run Set Cal 1

Traffic Sheet 21 (Wheel Load)
LTPP MONITORED TRAFFIC DATA
WIM SYSTEM TRUCK RECORDS

STATE CODE: 53
SPS WIM ID: 530200
DATE: (mm/dd/yyyy): 5/2/2012

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
66.9	50	1	1	10:10:15	1784	49.0	11.8	14.5	14.0	13.8	14.7		69.0	18.1	4.2	29.0	4.1		55.4	62.0
66.9	49	2	1	10:10:22	1785	48.0	10.7	13.4	12.7	11.1	9.3	7.0	64.3	18.1	4.2	25.3	4.8	5.2	57.6	64.0
71.6	53	1	2	10:32:03	1919	54.0	11.9	15.6	15.2	15.8	15.5		73.9	18.3	4.2	29.3	4.1		55.9	62.0
71.6	55	2	2	10:32:09	1922	55.0	10.2	12.5	12.6	11.5	9.3	8.1	64.2	18.0	4.2	25.2	4.8	5.1	57.3	64.0
74.6	60	1	3	10:53:44	2072	57.0	11.4	15.3	15.1	14.0	15.6		71.4	18.3	4.2	29.1	4.0		55.6	62.0
74.6	59	2	3	10:53:51	2075	59.0	9.8	12.6	12.9	11.9	9.0	8.4	64.6	18.1	4.2	25.3	4.8	5.1	57.5	64.0
77.6	50	1	4	11:37:13	2406	49.0	11.1	15.3	15.0	15.3	16.3		73.0	18.3	4.2	29.0	4.0		55.5	62.0
77.6	49	2	4	11:37:25	2410	49.0	11.2	12.9	12.5	11.2	9.6	7.7	65.0	18.1	4.2	25.3	4.8	5.2	57.6	64.0
83.5	58	1	5	11:58:47	2549	54.0	10.1	15.2	14.9	14.5	16.0		70.7	18.3	4.3	29.2	4.1		55.9	62.0
83.5	53	2	5	11:58:54	2551	55.0	11.4	12.8	12.8	11.6	9.6	9.0	67.1	18.2	4.2	25.3	4.8	5.2	57.7	64.0
77.7	58	1	6	12:20:47	2717	57.0	11.3	15.5	15.4	14.5	13.7		70.5	18.4	4.2	29.1	4.1		55.8	63.0
77.7	58	2	6	12:20:53	2719	57.0	10.8	13.4	13.4	11.0	8.8	8.1	65.5	18.1	4.3	25.3	4.8	5.2	57.7	64.0

Recorded By: kt Verified By: djw Run Set Cal 2

Traffic Sheet 21 (Wheel Load)
LTPP MONITORED TRAFFIC DATA
WIM SYSTEM TRUCK RECORDS

STATE CODE: 53
SPS WIM ID: 530200
DATE: (mm/dd/yyyy): 5/2/2012

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
69.5	49	1	1	12:59:24	3000	49.0	12.2	15.5	15.2	15.2	15.3		73.5	18.3	4.2	29.2	4.1		55.8	62.0
69.5	49	2	1	12:59:27	3001	50.0	11.9	12.8	12.6	12.9	10.0	9.2	69.4	18.2	4.3	25.4	4.8	5.2	57.9	64.0
78.7	54	1	2	13:22:21	3155	54.0	11.1	16.1	15.5	16.1	16.7		75.6	18.1	4.2	29.1	4.1		55.5	62.0
78.7	54	2	2	13:22:28	3156	53.0	10.7	13.1	13.1	12.1	9.4	8.5	66.9	18.1	4.2	25.3	4.8	5.1	57.5	64.0
80.6	60	1	3	13:43:55	3322	59.0	11.6	16.0	15.4	14.9	15.2		73.2	18.3	4.2	29.1	4.1		55.7	62.0
80.6	60	2	3	13:43:57	3323	57.0	12.2	12.3	13.0	12.2	9.1	7.4	66.1	18.0	4.2	25.2	4.8	5.1	57.3	63.0
73.0	48	1	4	14:05:35	3464	48.0	11.5	15.6	15.1	16.0	15.4		73.6	18.3	4.2	29.1	4.1		55.7	62.0
73.0	49	2	4	14:05:58	3469	48.0	11.8	12.9	12.7	13.3	9.2	9.3	69.2	5.1	4.8	25.4	4.8	5.1	45.2	64.0
77.5	52	1	5	14:27:14	3631	54.0	11.7	14.8	14.5	14.6	14.8		70.4	18.3	4.2	29.1	4.0		55.6	62.0
77.5	53	2	5	14:27:18	3632	54.0	10.8	13.9	13.4	11.1	9.4	7.7	66.3	18.2	4.2	25.5	4.8	5.2	57.9	65.0
82.5	57	1	6	14:49:02	3808	58.0	11.0	15.6	15.5	16.2	16.4		74.8	18.3	4.2	29.1	4.1		55.7	62.0
82.5	56	2	6	14:49:05	3809	57.0	11.3	13.0	12.9	11.4	9.6	8.4	66.5	18.1	4.2	25.2	4.8	5.1	57.4	64.0

Recorded By: kt Verified By: djw Run Set Cal 3

Traffic Sheet 21 (Wheel Load) LTPP MONITORED TRAFFIC DATA WIM SYSTEM TRUCK RECORDS	STATE CODE: 53 SPS WIM ID: 530200 DATE: (mm/dd/yyyy): 5/2/2012

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
69.5	49	1	1	12:59:24	3000	49.0	12.2	15.5	15.2	15.2	15.3		73.5	18.3	4.2	29.2	4.1		55.8	62.0
69.5	49	2	1	12:59:27	3001	50.0	11.9	12.8	12.6	12.9	10.0	9.2	69.4	18.2	4.3	25.4	4.8	5.2	57.9	64.0
78.7	54	1	2	13:22:21	3155	54.0	11.1	16.1	15.5	16.1	16.7		75.6	18.1	4.2	29.1	4.1		55.5	62.0
78.7	54	2	2	13:22:28	3156	53.0	10.7	13.1	13.1	12.1	9.4	8.5	66.9	18.1	4.2	25.3	4.8	5.1	57.5	64.0
80.6	60	1	3	13:43:55	3322	59.0	11.6	16.0	15.4	14.9	15.2		73.2	18.3	4.2	29.1	4.1		55.7	62.0
80.6	60	2	3	13:43:57	3323	57.0	12.2	12.3	13.0	12.2	9.1	7.4	66.1	18.0	4.2	25.2	4.8	5.1	57.3	63.0
73.0	48	1	4	14:05:35	3464	48.0	11.5	15.6	15.1	16.0	15.4		73.6	18.3	4.2	29.1	4.1		55.7	62.0
73.0	49	2	4	14:05:58	3469	48.0	11.8	12.9	12.7	13.3	9.2	9.3	69.2	18.2	4.2	25.4	4.8	5.1	57.7	64.0
77.5	52	1	5	14:27:14	3631	54.0	11.7	14.8	14.5	14.6	14.8		70.4	18.3	4.2	29.1	4.0		55.6	62.0
77.5	53	2	5	14:27:18	3632	54.0	10.8	13.9	13.4	11.1	9.4	7.7	66.3	18.2	4.2	25.5	4.8	5.2	57.9	65.0
82.5	57	1	6	14:49:02	3808	58.0	11.0	15.6	15.5	16.2	16.4		74.8	18.3	4.2	29.1	4.1		55.7	62.0
82.5	56	2	6	14:49:05	3809	57.0	11.3	13.0	12.9	11.4	9.6	8.4	66.5	18.1	4.2	25.2	4.8	5.1	57.4	64.0
70.3	57	1	7	15:18:31	4013	58.0	11.6	16.2	15.9	15.3	17.7		76.8	18.3	4.2	29.3	4.1		55.9	62.0
70.3	58	2	7	15:18:36	4014	57.0	10.1	13.2	12.8	12.0	9.3	8.9	66.3	18.2	4.2	25.3	4.8	5.1	57.6	64.0
44.4	50	1	8	7:42:04	868	49.0	10.6	15.8	15.6	16.2	16.4		74.7	18.1	4.2	29.3	4.1		55.7	63.0
44.4	50	2	8	7:42:14	870	49.0	10.4	13.9	13.7	12.1	9.3	8.3	67.6	18.1	4.2	25.3	4.8	5.1	57.5	64.0
48.6	54	1	9	8:04:02	999	53.0	11.5	16.8	16.0	17.2	18.0		79.5	18.3	4.2	29.2	4.1		55.8	62.0
48.6	54	2	9	8:04:08	1000	54.0	10.4	13.6	13.5	12.1	9.8	9.4	68.8	18.1	4.3	25.4	4.8	5.1	57.7	64.0
48.1	59	1	10	8:25:42	1130	58.0	10.7	16.2	16.3	17.2	16.9		77.4	18.3	4.2	29.2	4.1		55.8	62.0
48.1	58	2	10	8:25:46	1131	57.0	11.1	14.3	14.2	11.5	9.5	8.7	69.3	18.1	4.3	25.3	4.8	5.2	57.7	64.0
47.2	49	1	11	8:47:25	1269	49.0	10.9	16.0	15.9	17.2	17.0		77.0	18.3	4.2	29.1	4.1		55.7	63.0
47.2	48	2	11	8:47:35	1270	47.0	10.2	13.8	13.3	12.8	9.8	7.7	67.5	18.1	4.2	25.4	4.8	5.2	57.7	64.0
47.8	55	1	12	9:09:32	1428	53.0	11.0	16.6	16.0	16.8	17.0		77.3	18.2	4.2	29.1	4.1		55.6	62.0
47.8	54	2	12	9:09:51	1432	52.0	11.1	13.9	13.6	12.4	9.2	8.8	69.1	18.2	4.3	25.4	4.8	5.1	57.8	64.0

Recorded By: kt Verified By: djw Run Set Post

Traffic Sheet 21 (Wheel Load) LTPP MONITORED TRAFFIC DATA WIM SYSTEM TRUCK RECORDS	STATE CODE: 53 SPS WIM ID: 530200 DATE: (mm/dd/yyyy): 5/2/2012

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
47.2	58	1	13	9:31:08	1585	57.0	11.0	16.3	15.6	15.4	16.5		74.8	18.4	4.2	29.2	4.1		55.9	62.0
47.2	60	2	13	9:31:13	1587	59.0	10.9	13.7	13.5	12.2	9.9	8.6	68.7	18.3	4.2	25.3	4.8	5.1	57.7	64.0
49.4	49	1	14	9:53:02	1743	47.0	12.4	15.9	16.2	15.2	17.5		77.1	18.3	4.2	29.2	4.0		55.7	62.0
49.4	48	2	14	9:53:07	1745	48.0	12.7	12.7	12.8	13.3	10.3	8.9	70.8	18.2	4.3	25.4	4.8	5.1	57.8	64.0
47.6	53	1	15	10:18:31	1945	53.0	11.2	16.2	16.3	16.5	19.0		79.2	18.3	4.2	29.2	4.1		55.8	62.0
47.6	52	2	15	10:18:34	1946	53.0	10.7	13.8	13.4	12.0	9.8	8.8	68.4	18.2	4.2	25.3	4.8	5.1	57.6	64.0
48.5	60	1	16	10:40:31	2127	59.0	11.1	17.2	16.0	17.2	18.6		80.0	18.3	4.2	29.3	4.1		55.9	63.0
48.5	57	2	16	10:40:37	2129	57.0	11.0	14.5	13.7	12.3	9.2	8.7	69.4	18.1	4.3	25.4	4.8	5.1	57.7	64.0
49.7	47	1	17	11:02:19	2322	49.0	10.4	16.0	15.8	15.4	14.2		71.7	18.3	4.2	29.2	4.1		55.8	62.0
49.7	48	2	17	11:02:24	2323	49.0	10.4	13.1	12.9	12.2	9.8	8.4	66.8	18.2	4.3	25.4	4.8	5.2	57.9	64.0
50.1	51	1	18	11:23:55	2497	53.0	12.6	16.1	16.3	17.1	16.9		79.1	18.1	4.2	29.2	4.1		55.6	62.0
50.1	51	2	18	11:24:01	2498	54.0	12.0	12.9	13.6	11.9	8.8	8.2	67.5	18.0	4.2	25.2	4.8	5.1	57.3	63.0
54.1	60	1	19	11:46:05	2671	59.0	11.7	16.5	16.5	16.1	17.9		78.7	18.3	4.2	29.2	4.1		55.8	62.0
54.1	59	2	19	11:46:14	2672	58.0	10.6	13.6	13.2	12.5	9.8	8.7	68.4	18.1	4.2	25.3	4.9	5.1	57.6	64.0
55.3	49	1	20	12:13:40	2877	48.0	12.3	15.8	15.7	14.3	13.3		71.5	18.3	4.3	29.2	4.1		55.9	62.0
55.3	48	2	20	12:13:43	2878	49.0	11.1	14.7	13.8	12.4	9.6	8.7	70.4	18.1	4.2	25.3	4.8	5.1	57.5	64.0
57.0	53	1	21	12:53:20	3023	52.0	12.6	14.9	14.5	14.9	14.0		70.9	18.2	4.2	29.1	4.1		55.6	62.0
57.0	54	2	21	12:53:22	3024	54.0	10.1	13.6	13.3	11.8	9.3	9.4	67.5	18.1	4.2	25.3	4.8	5.1	57.5	64.0

Recorded By: kt Verified By: djw Run Set Post

Traffic Sheet 22 LTPP MONITORED TRAFFIC DATA SITE EQUIPMENT ASSESSSMENT LTPP LANE ONLY	STATE CODE: 53 SPS WIM ID: 530200 STATE ASSIGNED ID P7C DATE (mm/dd/yyy) 5/1/2012

SITE EQUIPMENT INFORMATION

1. TYPE OF EQUIPMENT BOTH

2. LANE NUMBER ON SITE 1 **3. DIRECTION ON SITE** north

4. VENDOR IRD **MODEL** 1068 **SERIAL#** 03098406

5. WEIGHING SENSOR TYPE quartz

6. SYSTEM SOFTWARE VERSIONS:

CPU _____

LOOP _____

PIEZO _____

WEIGHPAD/ 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 sytem. List all photos on Sheet 24 that support the evaluation.

There were no pavement distresses noted that may affect the accuracies of the WIM system.

Traffic Sheet 22	STATE CODE:	53
LTPP MONITORED TRAFFIC DATA	SPS WIM ID:	530200
SITE EQUIPMENT ASSESSSMENT	STATE ASSIGNED ID	P7C
LTPP LANE ONLY	DATE (mm/dd/yyy)	5/1/2012

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	STATE CODE:	53
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SITE EQUIPMENT ASSESSSMENT	STATE ASSIGNED ID	P7C
LTPP LANE ONLY	DATE (mm/dd/yyy)	5/1/2012

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	STATE CODE:	53
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SITE EQUIPMENT ASSESSSMENT	STATE ASSIGNED ID	P7C
LTPP LANE ONLY	DATE (mm/dd/yyy)	5/1/2012

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 61.5 mph Average WIM Speed 60.7 mph
Mean Difference -0.7 mph SD of mean 1.7

Posted Speed Limit 60 mph
Speed Range 15th percentile - 59 mph 85th percentile- 67 mph

Spacing and Weight - Complete Sheet 21 and attach.

Average distance between axles of drive tandem feet
% error from 4.25 ft (industry average) OR 4.22 ft (WIM system average)
= -0.8 %

Average front axle weight for Class 9 vehicles lbs
% error from 10.3 kips (industry average) OR 11.7 lbs (known site value)
= 13.5 %

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 occurance.

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 ASSESSSMENT LTPP LANE ONLY	STATE CODE: 53 SPS WIM ID: 530200 STATE ASSIGNED ID P7C DATE (mm/dd/yyy) 5/1/2012

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

Electronic tests of the power and communication devices indicated that they were operating normally.

Assessor Kevin Trousdale

Traffic Sheet 22 Addendum - Kistler Quartz	STATE CODE:	53
LTPP MONITORED TRAFFIC DATA	SPS WIM ID:	530200
SITE EQUIPMENT ASSESSSMENT	STATE ASSIGNED ID	P7C
LTPP LANE ONLY	DATE (mm/dd/yyy)	5/1/2012

STATIC EQUIPMENT VALUES (SYSTEM OFF)

1. POWER

a. Solar Panel		WATTS		VDC
b. Equipment Power	121.1	VAC		VDC
c. Battery 1		VDC		
d. Battery 2		VDC		
e. Regulated		VDC		
f. Power Supply	121.1	VAC		VDC
g. System Input	121.1	VAC		VDC
h. Modem Power		VAC		VDC
i. Telephone		VDC		

2. LOOP SENSORS

	Resistance		Inductance		Shield	
a. Leading	0.9	Ω	145.0	µh	inf	MΩ
b. Trailing	1.1	Ω	144.9	µh	inf	MΩ

3. KISTLER SENSORS

	Resistance		Capacitance	
a. K1 (lead/left)	10^9	Ω	15	ηf
b. K2 (lead/middle)	10^9	Ω	16	ηf
c. K3 (lead mid/right)		Ω		ηf
d. K4 (lead/right)		Ω		ηf
e. K5 (trail/left)		Ω		ηf
f. K6 (trail/mid left)		Ω		ηf
g. K7 (trail/mid right)	<10^9	Ω	8	ηf
h. K8 (trail/right)	10^11	Ω	15	ηf

DYNAMIC EQUIPMENT VALUES (SYSTEM ON)

4. LOOP SENSORS

	Frequency	
a. Leading	13.01	KHz
b. Trailing	13.68	KHz

5. KISTLER SENSORS

Dynamic testing for the Kistler Quartz sensor is not recommended.

Assessor Kevin Trousdale

Traffic Sheet 23 LTPP MONITORED TRAFFIC DATA WIM Troubleshooting Outline	STATE CODE: SPS WIM ID: DATE (mm/dd/yyyy)	53 530200 5/1/2012

STEP 1 - PROBLEM DESCRIPTION

PROVIDE A DETAILED DESCRIPTION OF THE PROBLEM.

The WIM system appeared to collect, analyze and report vehicle measurements normally. No troubleshooting actions were taken.

STEP 2 - COLLECT SYSTEM DATA

2A SYSTEM PARAMETERS

REVIEW ALL EQUIPMENT OPERATIONAL PARAMETERS SUCH AS CLASSIFICATION ALGORITHMS, DATE/TIME, WEIGHT AND SPEED/SPACING ERROR COMPENSATION FACTORS, AS WELL AS SENSOR LANE ASSIGNMENTS AND THRESHOLD SETTINGS

MAKE NOTE OF ANY SUSPECT VALUES. DO NOT CHANGE VALUES AT THIS TIME.

2B DOWNLOAD SYSTEM DATA

DOWNLOAD SYSTEM TRAFFIC DATA FOR THE DAY OR TIME PERIOD IN QUESTION. SITE PROBLEMS THAT CAN ONLY BE DETERMINED BY REVIEWING DATA FILES WILL MOST LIKELY REQUIRE A SECOND SITE VISIT UNLESS THE FILES CAN BE PROCESSED ONSITE

2C RECORD SYSTEM DIAGNOSTIC MODE VALUES

RECORD ALL SENSOR VALUES GIVEN IN THE SYSTEMS' DIAGNOSTIC MODE FOR THE LANE BEING INVESTIGATED, IF AVAILABLE. MAKE NOTE OF ANY DEFICIENCIES, AND SUSPECT OR INCONSISTANT VALUES.

Traffic Sheet 23 LTPP MONITORED TRAFFIC DATA WIM Troubleshooting Outline	STATE CODE: 53 SPS WIM ID: 530200 DATE (mm/dd/yyyy) 5/1/2012

LOOP SENSORS:

LOOP	VALUE
LEAD	
TRAIL	

WEIGHPAD / LOAD CELL SENSORS:

SENSOR	VALUE
LEAD/ SENSOR 1	
LEAD/ SENSOR 2	
LEAD/ SENSOR 3	
TRAIL/ SENSOR 1	
TRAIL/ SENSOR 2	
TRAIL/ SENSOR 3	

PIEZO SENSORS:

PIEZO	VALUE
LEADING	
2nd	
3rd	
TRAILING	

KISTLER QUARTZ SENSORS:

SENSOR	VALUE
LEADING	
TRAILING	

TEMPERATURE SENSOR: _____

2D ANALYZE THE INFORMATION COLLECTED

Traffic Sheet 23	STATE CODE:	53
LTPP MONITORED TRAFFIC DATA	SPS WIM ID:	530200
WIM Troubleshooting Outline	DATE (mm/dd/yyyy)	5/1/2012

STEP 3 FINDING THE SCOURCE OF THE PROBLEM

3A- PROBABLE FAULTY FUNCTION

LIST THE DEFICIENCIES DISCOVERED IN STEPS 1 & 2 BELOW. INDICATE THEIR ASSOCIATED WIM SYSTEM PRIMARY FUNCTIONS (POWER, COMMUNICATIONS, WEIGHT & CLASSIFICATION, ETC.).

SYMPTOM	FUNCTION

BASED ON THE SYMPTOMS LISTED ABOVE, MAKE A CONCLUSION AS TO THE MOST PROBABLE FAULTY SYSTEM FUNCTION. ADD ANY CLARIFYING NOTES.

MOST PROBABLE FAULTY FUNCTION: _____

3B- FAULTY COMPONENT

USE THE STANDARD EQUIPMENT MAINTENACE FORM (SHEET 22 TO RECORD ALL SYSTEM COMPONENT STATIC AND DYNAMIC VALUES USING THE TEST POINTS INDICATED BELOW FOR THE THE SYSTEM FUNCTION IN QUESTION.

TP#	TEST POINT DESCRIPTION	SYSTEM FUNCTION	DESCREPANCY Y/N
1	WIM SYSTEM POWER INPUT	POWER	
2	DC MODEM INPUT	POWER/ COMMUNICATION	
3	TELCO SURGE SUPPRESSOR OUTPUT	COMMUNICATION	
4	TELCO TERMINAL STRIP OUTPUT	COMMUNICATION	
5	TELCO D-MARK BOX OUTPUT	COMMUNICATION	
6	SENSOR TERMINAL STRIP INPUTS	WEIGHT/CLASSIFICATION	
7	PULL BOX INPUTS	WEIGHT/CLASSIFICATION	
8	DC POWER TERMINAL STRIP OUTPUTS	POWER	
9	DC REGULATOR OUTPUT	POWER	
10	BATTERY OUTPUT	POWER	
11	SOLAR SURGE SUPPRESSOR OUTPUT	POWER	
12	SOLAR PANEL OUTPUT	POWER	
13	AC POWER TERMINAL STRIP	POWER	
14	AC SERVICE DROP OUTPUT	POWER	
15	AC CIRCUIT BREAKER OUTPUT	POWER	
16	AC OUTLET OUTPUT	POWER	
17	EXTERNAL POWER SUPPLY OUTPUT	POWER	

Traffic Sheet 23 LTPP MONITORED TRAFFIC DATA WIM Troubleshooting Outline	STATE CODE: 53 SPS WIM ID: 530200 DATE (mm/dd/yyyy) 5/1/2012

DESCRIBE ANY SUSPECT TEST RESULTS.

BASED ON THE TEST READINGS MADE, DRAW A CONCLUSION AS TO THE MOST PROBABLE FAULTY COMPONENT AND INDICATE BELOW.

SUSPECTED FAULTY COMPONENT: _____

STEP- 4 DETERMINE THE CORRECTIVE ACTION

CONSIDERING ALL FACTORS ASSOCIATED WITH THE REPAIR OF THE FAULTY COMPONENT, DETERMINE THE CORRECTIVE ACTION.

DESCRIBE CORRECTIVE ACTION TAKEN.

STEP 5- REPAIRING THE SYSTEM

DESCRIBE THE ACTIONS TAKEN TO REPAIR THE SYSTEM, OR MAKE RECOMMENDATIONS ON THE REPAIRS THAT NEED TO BE TAKEN TO CORRECT THE SYSTEM DEFICIANCY.

ASSESSED BY: _____

Traffic Sheet 24A LTPP MONITORED TRAFFIC DATA SITE PHOTO LOG - Equipment	STATE CODE: 53 SPS WIM ID: 530200 DATE (mm/dd/yyy) 5/1/2012

Item	Description	Filename
1	Power Source	530200_power_service_box_5_01_12.jpg
2	Telephone Source	530200_telephone_pedestal_5_01_12.jpg
3	Cabinet Exterior	530200_cabinet_exterior_5_01_12.jpg
4	Cabinet Interior - Front	530200_cabinet_interior_front_5_01_12.jpg
5	Cabinet Interior - Rear	
6	Leading weight sensor	530200_leading_WIM_sensor_5_01_12.jpg
7	Trailing weight sensor	530200_trailing_WIM_sensor_5_01_12.jpg
8	Leading classification sensor	
9	Trailing classification sensor	
10	Leading loop sensor	530200_leading_loop_5_01_12.jpg
11	Trailing loop sensor	530200_trailing_loop_5_01_12.jpg
12	Downstream from site	530200_downstream_5_01_12.jpg
13	Upstream from site	530200_upstream_5_01_12.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	STATE CODE:	53
LTPP MONITORED TRAFFIC DATA	SPS WIM ID:	530200
SITE PHOTO LOG - Test Trucks	DATE (mm/dd/yyy)	5/1/2012

Item	Description	Filename
1	Tractor, Truck #1	530200_Truck_1_Tractor_5_01_12.jpg
2	Trailer/Load, Truck #1	530200_Truck_1_Trailer_5_01_12.jpg
3	Kingpin Offset, Truck #1	
4	Suspension A, Truck #1	530200_Truck_1_Suspension_1_5_01_12.jpg
5	Suspension B, Truck #1	530200_Truck_1_Suspension_2_5_01_12.jpg
6	Suspension C, Truck #1	530200_Truck_1_Suspension_3_5_01_12.jpg
7	Suspension D, Truck #1	530200_Truck_1_Suspension_4_5_01_12.jpg
8	Suspension E, Truck #1	530200_Truck_1_Suspension_5_5_01_12.jpg
9	Suspension F, Truck #1	
10	Tractor, Truck #2	530200_Truck_2_Tractor_5_01_12.jpg
11	Trailer/Load, Truck #2	530200_Truck_2_Trailer_5_01_12.jpg
12	Kingpin Offset, Truck #2	
13	Suspension A, Truck #2	530200_Truck_2_Suspension_1_5_01_12.jpg
14	Suspension B, Truck #2	530200_Truck_2_Suspension_2_5_01_12.jpg
15	Suspension C, Truck #2	530200_Truck_2_Suspension_3_5_01_12.jpg
16	Suspension D, Truck #2	530200_Truck_2_Suspension_4_5_01_12.jpg
17	Suspension E, Truck #2	530200_Truck_2_Suspension_5_5_01_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