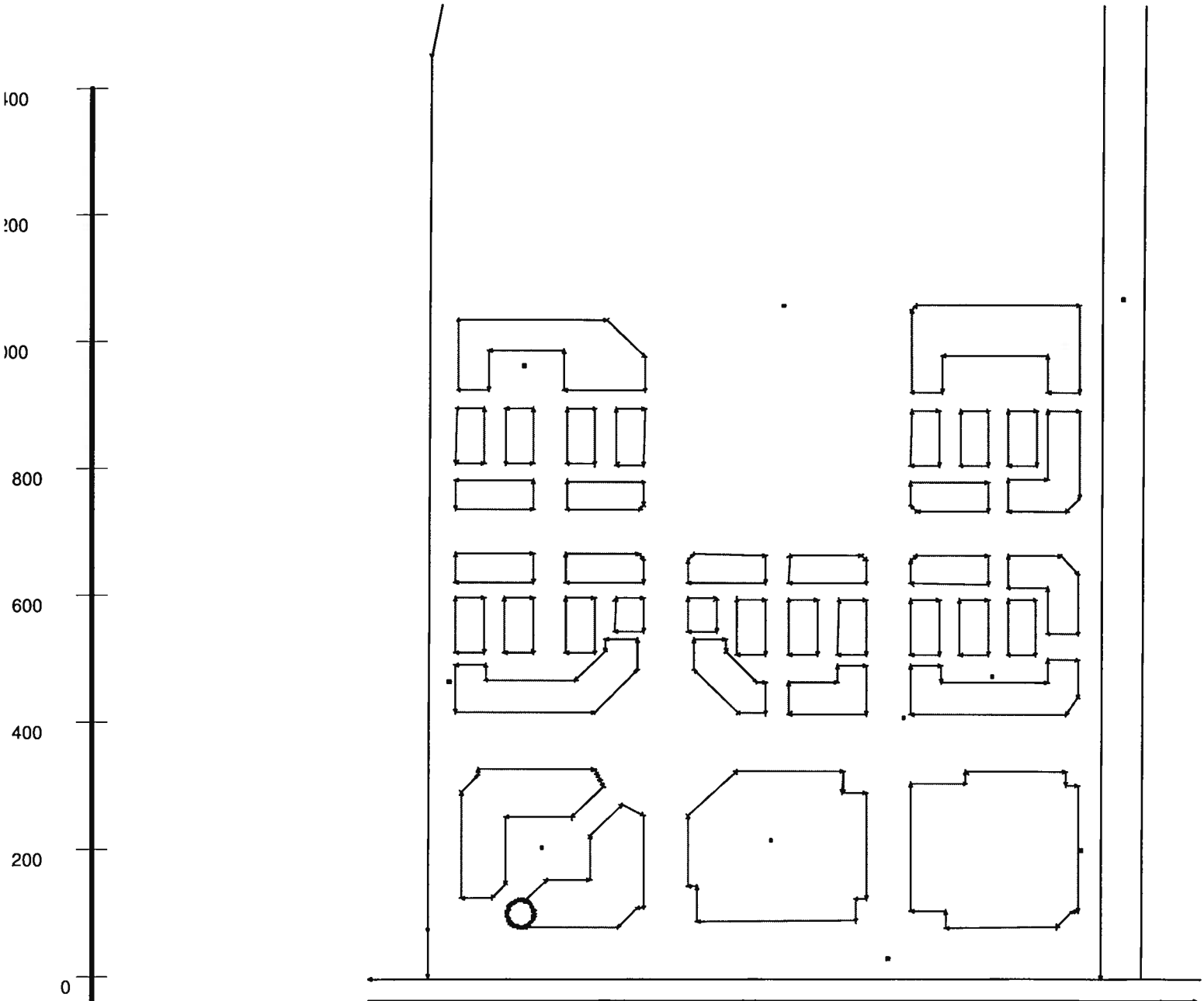

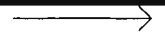








APPENDIX L – Noise Modeling Results



Township 9 - Baseline		Sheet 1 of 1	16 Nov 2006
Plan View		EIP	
Run name: Baseline		Project/Contract No. D51214.01	
Scale:  200 feet		TNM Version 2.5, Feb 2004	
Analysis By: EIP			
Roadway:		Ground Zone:	polygon
Receiver:		Tree Zone:	dashed polygon
Barrier:		Contour Zone:	polygon
Building Row:		Parallel Barrier:	
Terrain Line:		Skew Section:	

-400 -200 0 200 400 600 800 1000 1200

EIP
EIP

16 November 2006
TNM 2.5

INPUT: ROADWAYS
PROJECT/CONTRACT: D51214.01
RUN: Township 9 - Baseline

Average pavement type shall be used unless a State highway agency substantiates the use of a different type with the approval of FHWA

Roadway		Points									
Name	Width	Name	No.	Coordinates (pavement)			Flow Control			Segment	
				X	Y	Z	Control Device	Speed Constraint	Percent Vehicles Affected	Pvmt Type	On Struct?
	ft			ft	ft	ft		mph	%		
5th Street	38.0	point1	1	44.9	1,774.5	0.00				Average	
		point2	2	53.0	1,742.7	0.00				Average	
		point3	3	59.5	1,664.0	0.00				Average	
		point4	4	41.0	1,587.1	0.00				Average	
		point5	5	24.2	1,546.6	0.00				Average	
		point6	6	5.1	1,451.5	0.00				Average	
		point7	7	0.2	72.0	0.00				Average	
		point8	8	0.0	0.0	0.00					
S 7th Street	24.0	point9	9	1,069.9	1,728.6	0.00				Average	
		point10	10	1,064.5	-0.3	0.00					
N 7th Street	24.0	point11	11	1,130.5	-0.8	0.00				Average	
		point12	12	1,135.9	1,728.4	0.00					
W Richards Blvd	27.0	point13	13	1,223.1	-1.7	0.00				Average	
		point14	14	-92.9	-2.8	0.00					
E Richards Blvd	27.0	point15	15	-93.0	-36.8	0.00				Average	
		point16	16	1,218.7	-35.7	0.00					
W Richards Blvd assumptions: 90% auto, 4% medium truck, 6%											

EIP
EIP

16 November 2006
TNM 2.5

INPUT: TRAFFIC FOR LAeq1h Volumes

PROJECT/CONTRACT: D51214.01
RUN: Township 9 - Baseline

Roadway Name	Points											
	Name	No.	Segment									
			Autos		MTrucks		HTrucks		Buses		Motorcycles	
			V	S	V	S	V	S	V	S	V	S
veh/hr	mph	veh/hr	mph	veh/hr	mph	veh/hr	mph	veh/hr	mph	veh/hr	mph	
5th Street	point1	1	116	35	0	0	0	0	0	0	0	0
	point2	2	116	35	0	0	0	0	0	0	0	0
	point3	3	116	35	0	0	0	0	0	0	0	0
	point4	4	116	35	0	0	0	0	0	0	0	0
	point5	5	116	35	0	0	0	0	0	0	0	0
	point6	6	116	35	0	0	0	0	0	0	0	0
	point7	7	116	35	0	0	0	0	0	0	0	0
	point8	8										
S 7th Street	point9	9	953	35	0	0	0	0	0	0	0	0
	point10	10										
N 7th Street	point11	11	990	35	0	0	0	0	0	0	0	0
	point12	12										
W Richards Blvd	point13	13	1823	50	81	45	122	45	0	0	0	0
	point14	14										
E Richards Blvd	point15	15	1701	50	76	45	113	45	0	0	0	0
	point16	16										

INPUT: RECEIVERS

D51214.01

**EIP
EIP**

**16 November 2006
TNM 2.5**

INPUT: RECEIVERS

**PROJECT/CONTRACT: D51214.01
RUN: Township 9 - Baseline**

Receiver												
Name	No.	#DUs	Coordinates (ground)			Height above Ground	Input Sound Levels and Criteria				Active in Calc.	
			X	Y	Z		Existing LAeq1h	Impact Criteria		NR Goal		
			ft	ft	ft		dBA	dBA	dB	dB		
Receiver1	1	1	181.0	204.1	0.00	4.92	0.00	66	10.0	8.0	Y	
Receiver2	2	1	542.6	216.5	0.00	4.92	0.00	66	10.0	8.0	Y	
Receiver4	4	1	726.2	29.8	0.00	4.92	0.00	66	10.0	8.0	Y	
Receiver5	5	1	752.3	409.2	0.00	4.92	0.00	66	10.0	8.0	Y	
Receiver6	6	1	892.4	473.9	0.00	4.92	0.00	66	10.0	8.0	Y	
Receiver7	7	1	153.8	963.3	0.00	4.92	0.00	66	10.0	8.0	Y	
Receiver8	8	1	563.6	1,058.6	0.00	4.92	0.00	66	10.0	8.0	Y	
Receiver9	9	1	1,101.3	1,069.9	0.00	4.92	0.00	66	10.0	8.0	Y	
Receiver10	10	1	35.0	464.5	0.00	4.92	0.00	66	10.0	8.0	Y	
Receiver12	12	1	1,033.3	202.1	0.00	4.92	0.00	66	10.0	8.0	Y	

EIP
EIP

16 November 2006
TNM 2.5

INPUT: ROADWAYS
PROJECT/CONTRACT: D51214.01
RUN: Township 9 - Baseline + Project

Average pavement type shall be used unless a State highway agency substantiates the use of a different type with the approval of FHWA

Roadway		Points									
Name	Width	Name	No.	Coordinates (pavement)			Flow Control			Segment	
				X	Y	Z	Control Device	Speed Constraint	Percent Vehicles Affected	Pvmt Type	On Struct?
	ft			ft	ft	ft		mph	%		
5th Street	38.0	point1	1	44.9	1,774.5	0.00				Average	
		point2	2	53.0	1,742.7	0.00				Average	
		point3	3	59.5	1,664.0	0.00				Average	
		point4	4	41.0	1,587.1	0.00				Average	
		point5	5	24.2	1,546.6	0.00				Average	
		point6	6	5.1	1,451.5	0.00				Average	
		point7	7	0.2	72.0	0.00				Average	
		point8	8	0.0	0.0	0.00				Average	
S 7th Street	24.0	point9	9	1,069.9	1,728.6	0.00				Average	
		point10	10	1,064.5	-0.3	0.00					
N 7th Street	24.0	point11	11	1,130.5	-0.8	0.00				Average	
		point12	12	1,135.9	1,728.4	0.00					
W Richards Blvd	27.0	point13	13	1,223.1	-1.7	0.00				Average	
		point14	14	-92.9	-2.8	0.00					
E Richards Blvd	27.0	point15	15	-93.0	-36.8	0.00				Average	
		point16	16	1,218.7	-35.7	0.00					
W Richards Blvd vehicle type assumed from site visit observ											
E Richards Blvd vehicle type assumed from site visit observ											

EIP
EIP

16 November 2006
TNM 2.5

INPUT: TRAFFIC FOR LAeq1h Volumes

PROJECT/CONTRACT:

D51214.01

RUN:

Township 9 - Baseline + Project

Roadway	Points											
Name	Name	No.	Segment									
			Autos		MTrucks		HTrucks		Buses		Motorcycles	
			V	S	V	S	V	S	V	S	V	S
			veh/hr	mph	veh/hr	mph	veh/hr	mph	veh/hr	mph	veh/hr	mph
5th Street	point1	1	974	35	0	0	0	0	0	0	0	0
	point2	2	974	35	0	0	0	0	0	0	0	0
	point3	3	974	35	0	0	0	0	0	0	0	0
	point4	4	974	35	0	0	0	0	0	0	0	0
	point5	5	974	35	0	0	0	0	0	0	0	0
	point6	6	974	35	0	0	0	0	0	0	0	0
	point7	7	974	35	0	0	0	0	0	0	0	0
	point8	8										
S 7th Street	point9	9	1826	35	0	0	0	0	0	0	0	0
	point10	10										
N 7th Street	point11	11	808	35	0	0	0	0	0	0	0	0
	point12	12										
W Richards Blvd	point13	13	2317	50	103	45	154	45	0	0	0	0
	point14	14										
E Richards Blvd	point15	15	1930	50	86	45	129	45	0	0	0	0
	point16	16										

INPUT: RECEIVERS

D51214.01

EIP
EIP

16 November 2006
TNM 2.5

INPUT: RECEIVERS

PROJECT/CONTRACT:

D51214.01

RUN:

Township 9 - Baseline + Project

Receiver												
Name	No.	#DUs	Coordinates (ground)			Height above Ground	Input Sound Levels and Criteria				Active in Calc.	
			X	Y	Z		Existing LAeq1h	Impact Criteria		NR Goal		
			ft	ft	ft		dBA	dBA	Sub'l dB	dB		
Receiver1	1	1	181.0	204.1	0.00	4.92	0.00	66	10.0	8.0	Y	
Receiver2	2	1	542.6	216.5	0.00	4.92	0.00	66	10.0	8.0	Y	
Receiver4	4	1	726.2	29.8	0.00	4.92	0.00	66	10.0	8.0	Y	
Receiver5	5	1	752.3	409.2	0.00	4.92	0.00	66	10.0	8.0	Y	
Receiver6	6	1	892.4	473.9	0.00	4.92	0.00	66	10.0	8.0	Y	
Receiver7	7	1	153.8	963.3	0.00	4.92	0.00	66	10.0	8.0	Y	
Receiver8	8	1	563.6	1,058.6	0.00	4.92	0.00	66	10.0	8.0	Y	
Receiver9	9	1	1,101.3	1,069.9	0.00	4.92	0.00	66	10.0	8.0	Y	
Receiver10	10	1	35.0	464.5	0.00	4.92	0.00	66	10.0	8.0	Y	
Receiver12	12	1	1,033.3	202.1	0.00	4.92	0.00	66	10.0	8.0	Y	

INPUT: ROADWAYS

D51214.01

EIP
EIP

16 November 2006
TNM 2.5

INPUT: ROADWAYS
PROJECT/CONTRACT:
RUN:

D51214.01
Township 9 - 2030

Average pavement type shall be used unless
a State highway agency substantiates the use
of a different type with the approval of FHWA

Roadway		Points									
Name	Width	Name	No.	Coordinates (pavement)			Flow Control			Segment	
				X	Y	Z	Control Device	Speed Constraint	Percent Vehicles Affected	Pvmt Type	On Struct?
	ft			ft	ft	ft		mph	%		
5th Street	38.0	point1	1	44.9	1,774.5	0.00				Average	
		point2	2	53.0	1,742.7	0.00				Average	
		point3	3	59.5	1,664.0	0.00				Average	
		point4	4	41.0	1,587.1	0.00				Average	
		point5	5	24.2	1,546.6	0.00				Average	
		point6	6	5.1	1,451.5	0.00				Average	
		point7	7	0.2	72.0	0.00				Average	
		point8	8	0.0	0.0	0.00				Average	
S 7th Street	24.0	point9	9	1,069.9	1,728.6	0.00				Average	
		point10	10	1,064.5	-0.3	0.00					
N 7th Street	24.0	point11	11	1,130.5	-0.8	0.00				Average	
		point12	12	1,135.9	1,728.4	0.00					
W Richards Blvd	27.0	point13	13	1,223.1	-1.7	0.00				Average	
		point14	14	-92.9	-2.8	0.00					
E Richards Blvd	27.0	point15	15	-93.0	-36.8	0.00				Average	
		point16	16	1,218.7	-35.7	0.00					
W Richards Blvd vehicle type assumed from site visit observ											
E Richards Blvd vehicle type assumed from site visit observ											

EIP
EIP

16 November 2006
TNM 2.5

INPUT: TRAFFIC FOR LAeq1h Volumes

PROJECT/CONTRACT:

D51214.01

RUN:

Township 9 - 2030

Roadway Name	Points											
	Name	No.	Segment									
			Autos		MTrucks		HTrucks		Buses		Motorcycles	
			V	S	V	S	V	S	V	S	V	S
veh/hr	mph	veh/hr	mph	veh/hr	mph	veh/hr	mph	veh/hr	mph	veh/hr	mph	
5th Street	point1	1	377	35	0	0	0	0	0	0	0	0
	point2	2	377	35	0	0	0	0	0	0	0	0
	point3	3	377	35	0	0	0	0	0	0	0	0
	point4	4	377	35	0	0	0	0	0	0	0	0
	point5	5	377	35	0	0	0	0	0	0	0	0
	point6	6	377	35	0	0	0	0	0	0	0	0
	point7	7	377	35	0	0	0	0	0	0	0	0
	point8	8										
S 7th Street	point9	9	1368	35	0	0	0	0	0	0	0	0
	point10	10										
N 7th Street	point11	11	907	35	0	0	0	0	0	0	0	0
	point12	12										
W Richards Blvd	point13	13	2289	50	102	45	153	45	0	0	0	0
	point14	14										
E Richards Blvd	point15	15	0	0	0	0	0	0	0	0	0	0
	point16	16										

INPUT: RECEIVERS

D51214.01

**EIP
EIP**

**16 November 2006
TNM 2.5**

INPUT: RECEIVERS

PROJECT/CONTRACT:

D51214.01

RUN:

Township 9 - 2030

Receiver												
Name	No.	#DUs	Coordinates (ground)			Height above Ground	Input Sound Levels and Criteria				Active in Calc.	
			X	Y	Z		Existing LAeq1h	Impact Criteria		NR Goal		
			ft	ft	ft		dBA	dBA	Sub'l	dB		
Receiver1	1	1	181.0	204.1	0.00	4.92	0.00	66	10.0	8.0	Y	
Receiver2	2	1	542.6	216.5	0.00	4.92	0.00	66	10.0	8.0	Y	
Receiver4	4	1	726.2	29.8	0.00	4.92	0.00	66	10.0	8.0	Y	
Receiver5	5	1	752.3	409.2	0.00	4.92	0.00	66	10.0	8.0	Y	
Receiver6	6	1	892.4	473.9	0.00	4.92	0.00	66	10.0	8.0	Y	
Receiver7	7	1	153.8	963.3	0.00	4.92	0.00	66	10.0	8.0	Y	
Receiver8	8	1	563.6	1,058.6	0.00	4.92	0.00	66	10.0	8.0	Y	
Receiver9	9	1	1,101.3	1,069.9	0.00	4.92	0.00	66	10.0	8.0	Y	
Receiver10	10	1	35.0	464.5	0.00	4.92	0.00	66	10.0	8.0	Y	
Receiver12	12	1	1,033.3	202.1	0.00	4.92	0.00	66	10.0	8.0	Y	

EIP
EIP

16 November 2006
TNM 2.5

INPUT: ROADWAYS
PROJECT/CONTRACT: D51214.01
RUN: Township 9 - 2030 + Project

Average pavement type shall be used unless
a State highway agency substantiates the use
of a different type with the approval of FHWA

Roadway		Points									
Name	Width	Name	No.	Coordinates (pavement)			Flow Control			Segment	
				X	Y	Z	Control Device	Speed Constraint	Percent Vehicles Affected	Pvmt Type	On Struct?
	ft			ft	ft	ft		mph	%		
5th Street	38.0	point1	1	44.9	1,774.5	0.00				Average	
		point2	2	53.0	1,742.7	0.00				Average	
		point3	3	59.5	1,664.0	0.00				Average	
		point4	4	41.0	1,587.1	0.00				Average	
		point5	5	24.2	1,546.6	0.00				Average	
		point6	6	5.1	1,451.5	0.00				Average	
		point7	7	0.2	72.0	0.00				Average	
		point8	8	0.0	0.0	0.00					
S 7th Street	24.0	point9	9	1,069.9	1,728.6	0.00				Average	
		point10	10	1,064.5	-0.3	0.00					
N 7th Street	24.0	point11	11	1,130.5	-0.8	0.00				Average	
		point12	12	1,135.9	1,728.4	0.00					
W Richards Blvd	27.0	point13	13	1,223.1	-1.7	0.00				Average	
		point14	14	-92.9	-2.8	0.00					
E Richards Blvd	27.0	point15	15	-93.0	-36.8	0.00				Average	
		point16	16	1,218.7	-35.7	0.00					
W Richards Blvd vehicle type assumed from site visit observ											
E Richards Blvd vehicle type assumed from site visit observ											

EIP
EIP

16 November 2006
TNM 2.5

INPUT: TRAFFIC FOR LAeq1h Volumes

PROJECT/CONTRACT: D51214.01
RUN: Township 9 - 2030 + Project

Roadway	Points											
Name	Name	No.	Segment									
			Autos		MTrucks		HTrucks		Buses		Motorcycles	
			V	S	V	S	V	S	V	S	V	S
			veh/hr	mph	veh/hr	mph	veh/hr	mph	veh/hr	mph	veh/hr	mph
5th Street	point1	1	1374	35	0	0	0	0	0	0	0	0
	point2	2	1374	35	0	0	0	0	0	0	0	0
	point3	3	1374	35	0	0	0	0	0	0	0	0
	point4	4	1374	35	0	0	0	0	0	0	0	0
	point5	5	1374	35	0	0	0	0	0	0	0	0
	point6	6	1374	35	0	0	0	0	0	0	0	0
	point7	7	1374	35	0	0	0	0	0	0	0	0
	point8	8										
S 7th Street	point9	9	2121	35	0	0	0	0	0	0	0	0
	point10	10										
N 7th Street	point11	11	1240	35	0	0	0	0	0	0	0	0
	point12	12										
W Richards Blvd	point13	13	2758	50	123	45	184	45	0	0	0	0
	point14	14										
E Richards Blvd	point15	15	0	0	0	0	0	0	0	0	0	0
	point16	16										

INPUT: RECEIVERS

D51214.01

**EIP
EIP**

**16 November 2006
TNM 2.5**

INPUT: RECEIVERS

PROJECT/CONTRACT:

D51214.01

RUN:

Township 9 - 2030 + Project

Receiver

Name	No.	#DUs	Coordinates (ground)			Height above Ground	Input Sound Levels and Criteria				Active in Calc.
			X	Y	Z		Existing LAeq1h	Impact Criteria		NR Goal	
			ft	ft	ft		ft	ft	ft	ft	
Receiver1	1	1	181.0	204.1	0.00	4.92	0.00	66	10.0	8.0	Y
Receiver2	2	1	542.6	216.5	0.00	4.92	0.00	66	10.0	8.0	Y
Receiver4	4	1	726.2	29.8	0.00	4.92	0.00	66	10.0	8.0	Y
Receiver5	5	1	752.3	409.2	0.00	4.92	0.00	66	10.0	8.0	Y
Receiver6	6	1	892.4	473.9	0.00	4.92	0.00	66	10.0	8.0	Y
Receiver7	7	1	153.8	963.3	0.00	4.92	0.00	66	10.0	8.0	Y
Receiver8	8	1	563.6	1,058.6	0.00	4.92	0.00	66	10.0	8.0	Y
Receiver9	9	1	1,101.3	1,069.9	0.00	4.92	0.00	66	10.0	8.0	Y
Receiver10	10	1	35.0	464.5	0.00	4.92	0.00	66	10.0	8.0	Y
Receiver12	12	1	1,033.3	202.1	0.00	4.92	0.00	66	10.0	8.0	Y