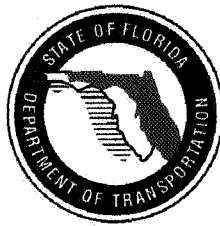


DRAFT NOISE STUDY REPORT

TNM Input/Output files

**S.R. 679 (Pinellas Bayway Structure E) at Intracoastal Waterway
Project Development and Environment Study
Pinellas County, Florida**

Work Program Item Segment No: 410755 1



**Florida Department of Transportation
District Seven
11201 North McKinley Drive
Tampa, Florida 33612-6456**

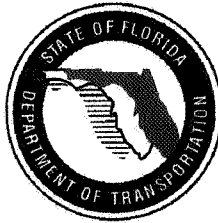
January 2007

DRAFT NOISE STUDY REPORT

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Prepared by:

Florida Department of Transportation
District Seven
11201 North McKinley Drive
Tampa, Florida 33612-6456

January 2007

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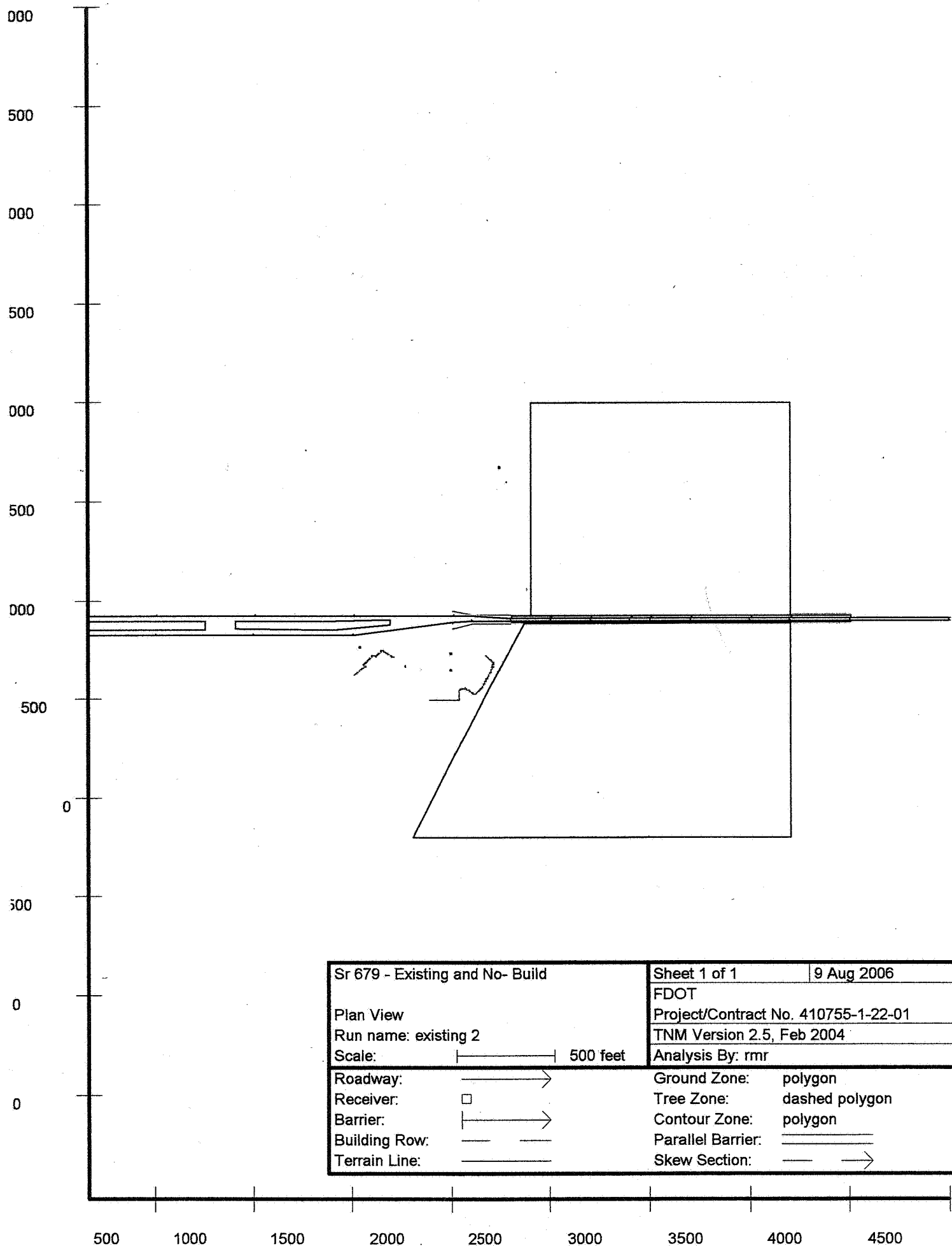
C-2

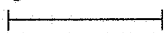
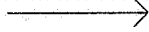

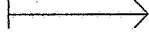

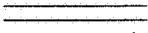
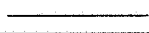

Title

Existing/ No-Build

Build High Level Relocated Channel

C-1



Sr 679 - Existing and No- Build		Sheet 1 of 1	9 Aug 2006
Plan View		FDOT	
Run name: existing 2		Project/Contract No. 410755-1-22-01	
Scale:  500 feet		TNM Version 2.5, Feb 2004	
Analysis By: rmr			
Roadway:		Ground Zone:	polygon
Receiver:		Tree Zone:	dashed polygon
Barrier:		Contour Zone:	polygon
Building Row:		Parallel Barrier:	
Terrain Line:		Skew Section:	

INPUT: ROADWAYS

410755-1-22-01

FDOT
rnr

TNM 2.5

INPUT: ROADWAYS

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

PROJECT/CONTRACT: 410755-1-22-01

RUN: Sr 679 - Existing and No- Build

Roadway Name	Width ft	Points			Coordinates (pavement)			Flow Control			Segment		
		Name	No.		X	Y	Z	Control Device	Speed Constraint mph	Percent Vehicles Affected %	Pvmt Type	On Struct?	
NB Roadway 1	36.0	nb255	1	0.0	830.0	7.00					Average		
		nb260	2	500.0	830.0	7.00					Average		
		nb265	3	1,000.0	830.0	7.00					Average		
		nb270	4	1,500.0	830.0	7.00					Average		
		nb275	5	2,000.0	890.0	8.00					Average		
		nb275+2	6	2,100.0	900.0	9.00					Average		
NB Roadway 2	12.0	nb275+2	7	2,100.0	900.0	9.00					Average		
		nb275+6	8	2,300.0	900.0	17.00					Average	Y	
		nb280	9	2,500.0	900.0	22.00					Average	Y	
		nb280+4	10	2,700.0	900.0	28.00					Average	Y	
		nb280+8	11	2,900.0	900.0	30.00					Average	Y	
		nb285	12	3,000.0	900.0	30.00					Average	Y	
		nb285+4	13	3,200.0	900.0	28.00					Average	Y	
		nb290	14	3,500.0	900.0	20.00					Average	Y	
		nb290+4	15	3,700.0	900.0	15.00					Average	Y	
		nb295	16	4,000.0	900.0	8.00					Average	Y	
	SB Roadway 1	36.0	nb300	17	4,500.0	900.0	7.00					Average	Y
			sb275+2	23	2,100.0	925.0	9.00					Average	
			sb275	22	2,000.0	925.0	8.00					Average	
			sb270	21	1,500.0	925.0	7.00					Average	
		sb265	20	1,000.0	925.0	7.00					Average		
		sb260	19	500.0	925.0	7.00					Average		
		sb255	18	0.0	925.0	7.00					Average		
		sb300	35	4,500.0	912.0	7.00					Average		
SB Roadway 2	12.0	sb295	34	4,000.0	912.0	8.00					Average	Y	

410755-1-22-01

INPUT: ROADWAYS

			sb290+4	33	3,700.0	912.0	15.00		Average	Y
			sb290	32	3,500.0	912.0	20.00		Average	Y
			sb285+4	31	3,200.0	912.0	28.00		Average	Y
			sb285	30	3,000.0	912.0	30.00		Average	Y
			sb280+8	29	2,900.0	912.0	30.00		Average	Y
			sb280+4	28	2,700.0	912.0	28.00		Average	Y
			sb280	27	2,500.0	912.0	22.00		Average	Y
			sb275+6	26	2,300.0	912.0	17.00		Average	Y
			sb275+2	25	2,100.0	925.0	9.00			
EB edge		6.0	point38	38	2,300.0	891.0	17.00		Average	Y
			point39	39	2,500.0	891.0	22.00		Average	Y
			point40	40	2,700.0	891.0	28.00		Average	Y
			point41	41	2,900.0	891.0	30.00		Average	Y
			point42	42	3,000.0	891.0	30.00		Average	Y
			point43	43	3,200.0	891.0	28.00		Average	Y
			point44	44	3,500.0	891.0	20.00		Average	Y
			point45	45	3,700.0	891.0	15.00		Average	Y
			point46	46	4,000.0	891.0	8.00		Average	Y
WB edge		6.0	point55	55	4,000.0	921.0	8.00		Average	Y
			point54	54	3,700.0	921.0	15.00		Average	Y
			point53	53	3,500.0	921.0	20.00		Average	Y
			point52	52	3,200.0	921.0	28.00		Average	Y
			point51	51	3,000.0	921.0	30.00		Average	Y
			point50	50	2,900.0	921.0	30.00		Average	Y
			point49	49	2,700.0	921.0	28.00		Average	Y
			point48	48	2,500.0	921.0	22.00		Average	Y
			point47	47	2,300.0	921.0	17.00		Average	Y

FDOT
TMR

TNM 2.5

INPUT: TRAFFIC FOR LAeq1h Volumes
PROJECT/CONTRACT:
RUN: Sr 679 - Existing and No- Build

410755-1-22-01

Sr 679 - Existing and No- Build

Roadway Name	No.	Segment														
		Autos			MTrucks			HTrucks			Buses			Motorcycles		
		V	S	mph	V	S	mph	V	S	mph	V	S	mph	V	S	mph
NB Roadway1	1	841	45	28	45	8	45	0	45	0	0	0	0	0	0	0
	2	841	45	28	45	8	45	0	45	0	0	0	0	0	0	0
	3	841	45	28	45	8	45	0	45	0	0	0	0	0	0	0
	4	841	45	28	45	8	45	0	45	0	0	0	0	0	0	0
	5	841	45	28	45	8	45	0	45	0	0	0	0	0	0	0
	6															
NB Roadway 2	7	841	45	28	45	8	45	0	45	0	0	0	0	0	0	0
	8	841	45	28	45	8	45	0	45	0	0	0	0	0	0	0
	9	841	45	28	45	8	45	0	45	0	0	0	0	0	0	0
	10	841	45	28	45	8	45	0	45	0	0	0	0	0	0	0
	11	841	45	28	45	8	45	0	45	0	0	0	0	0	0	0
	12	841	45	28	45	8	45	0	45	0	0	0	0	0	0	0
	13	841	45	28	45	8	45	0	45	0	0	0	0	0	0	0
	14	841	45	28	45	8	45	0	45	0	0	0	0	0	0	0
	15	841	45	28	45	8	45	0	45	0	0	0	0	0	0	0
	16	841	45	28	45	8	45	0	45	0	0	0	0	0	0	0
	17															
SB Roadway 1	23	414	45	14	45	4	45	0	45	0	0	0	0	0	0	0
	22	414	45	14	45	4	45	0	45	0	0	0	0	0	0	0
	21	414	45	14	45	4	45	0	45	0	0	0	0	0	0	0
	20	414	45	14	45	4	45	0	45	0	0	0	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

410755-1-22-01

	sb260	19	414	45	14	45	4	45	0	0	0	0
	sb265	18										
SB Roadway 2	sb300	35	414	45	14	45	4	45	0	0	0	0
	sb295	34	414	45	14	45	4	45	0	0	0	0
	sb290+4	33	414	45	14	45	4	45	0	0	0	0
	sb290	32	414	45	14	45	4	45	0	0	0	0
	sb285+4	31	414	45	14	45	4	45	0	0	0	0
	sb285	30	414	45	14	45	4	45	0	0	0	0
	sb280+8	29	414	45	14	45	4	45	0	0	0	0
	sb280+4	28	414	45	14	45	4	45	0	0	0	0
	sb280	27	414	45	14	45	4	45	0	0	0	0
	sb275+6	26	414	45	14	45	4	45	0	0	0	0
	sb275+2	25										
EB edge	point38	38	0	0	0	0	0	0	0	0	0	0
	point39	39	0	0	0	0	0	0	0	0	0	0
	point40	40	0	0	0	0	0	0	0	0	0	0
	point41	41	0	0	0	0	0	0	0	0	0	0
	point42	42	0	0	0	0	0	0	0	0	0	0
	point43	43	0	0	0	0	0	0	0	0	0	0
	point44	44	0	0	0	0	0	0	0	0	0	0
	point45	45	0	0	0	0	0	0	0	0	0	0
	point46	46										
WB edge	point55	55	0	0	0	0	0	0	0	0	0	0
	point54	54	0	0	0	0	0	0	0	0	0	0
	point53	53	0	0	0	0	0	0	0	0	0	0
	point52	52	0	0	0	0	0	0	0	0	0	0
	point51	51	0	0	0	0	0	0	0	0	0	0
	point50	50	0	0	0	0	0	0	0	0	0	0
	point49	49	0	0	0	0	0	0	0	0	0	0
	point48	48	0	0	0	0	0	0	0	0	0	0
	point47	47										

INPUT: RECEIVERS

410755-1-22-01

FDOT
rnr

TNIM 2.5

INPUT: RECEIVERS

PROJECT/CONTRACT: 410755-1-22-01

RUN: Sr 679 - Existing and No- Build

Receiver Name	No.	#DUs	Coordinates (ground)			Height above Ground	Input Sound Levels and Criteria				Active in Calc.
			X	Y	Z		Existing LAeq1h	Impact Criteria LAeq1h	Sub'l	NR Goal	
			ft	ft	ft	ft	dBA	dBA		dB	
n condo1a	2	1	2,212.0	683.0	7.00	15.00	0.00	66	10.0	8.0	Y
n condo1b	3	1	2,212.0	683.0	7.00	30.00	0.00	66	10.0	8.0	Y
n condo 1c	4	1	2,212.0	683.0	7.00	45.00	0.00	66	10.0	8.0	Y
n condo 2a	5	1	2,207.0	665.0	7.00	15.00	0.00	66	10.0	8.0	Y
n condo 2b	7	1	2,207.0	665.0	7.00	30.00	0.00	66	10.0	8.0	Y
n condo 2c	8	1	2,207.0	665.0	7.00	45.00	0.00	66	10.0	8.0	Y
s condo 1a	9	1	1,637.0	748.0	7.00	15.00	0.00	66	10.0	8.0	Y
s condo 1b	10	1	1,637.0	748.0	7.00	30.00	0.00	66	10.0	8.0	Y
s condo 1c	11	1	1,637.0	748.0	7.00	45.00	0.00	66	10.0	8.0	Y
s condo 2a	12	1	1,618.0	731.0	7.00	15.00	0.00	66	10.0	8.0	Y
s condo 2b	13	1	1,618.0	731.0	7.00	30.00	0.00	66	10.0	8.0	Y
s condo 2c	14	1	1,618.0	731.0	7.00	45.00	0.00	66	10.0	8.0	Y
s condo 3a	15	1	1,593.0	722.0	7.00	15.00	0.00	66	10.0	8.0	Y
s condo 3b	16	1	1,593.0	722.0	7.00	30.00	0.00	66	10.0	8.0	Y
s condo 3c	17	1	1,593.0	722.0	7.00	45.00	0.00	66	10.0	8.0	Y
66dBA	18	1	1,530.0	766.0	7.00	5.00	0.00	66	10.0	8.0	Y
Tennis Court 1	19	1	1,990.0	735.0	7.00	5.00	0.00	66	10.0	8.0	Y
Tennis Court 2	20	1	1,990.0	650.0	7.00	5.00	0.00	66	10.0	8.0	Y
Tennis Court 3	21	1	1,760.0	670.0	7.00	5.00	0.00	66	10.0	8.0	Y
home 1	26	1	2,275.0	1,600.0	7.00	5.00	0.00	66	10.0	8.0	Y
home 2	27	1	2,240.0	1,675.0	7.00	5.00	0.00	66	10.0	8.0	Y

INPUT: BUILDING ROWS

410755-1-22-01

FDOT
rnr

TNIM 2.5

INPUT: BUILDING ROWS

PROJECT/CONTRACT: 410755-1-22-01

RUN: Sr 679 - Existing and No-Build

Building Row Name	Average Height		Building Percent		Points No.	Coordinates (ground)		
	ft	%	ft	%		X	Y	Z
n condo	60.00		80		12	2,170.0	725.0	7.00
					13	2,210.0	690.0	7.00
					14	2,200.0	650.0	7.00
					15	2,150.0	560.0	7.00
					17	2,110.0	530.0	7.00
					29	2,060.0	560.0	7.00
					28	2,030.0	550.0	7.00
					27	2,030.0	500.0	7.00
					16	1,880.0	500.0	7.00
s condo	60.00		80		18	1,700.0	715.0	7.00
					19	1,645.0	750.0	7.00
					20	1,610.0	720.0	7.00
					21	1,600.0	725.0	7.00
					33	1,550.0	680.0	7.00
					32	1,560.0	670.0	7.00
					31	1,505.0	630.0	7.00

INPUT: TERRAIN LINES

FDOT
rnr

TNM 2.5

INPUT: TERRAIN LINES
PROJECT/CONTRACT:
RUN:

410755-1-22-01
Sr 679 - Existing and No- Build

Terrain Line Name	Points			Z ft
	No.	Coordinates (ground)		
	X ft	Y ft	Z ft	
NB TL south	25	2,000.0	862.0	0.00
	26	2,100.0	882.0	0.00
	34	2,300.0	882.0	0.00
SB TL south	27	2,000.0	933.0	0.00
	28	2,100.0	928.0	0.00
NB TL north	36	2,300.0	930.0	0.00
	29	3,700.0	882.0	0.00
SB TL north	30	4,000.0	882.0	0.00
	31	3,700.0	930.0	0.00
	32	4,000.0	930.0	0.00

INPUT: GROUND ZONES

410755-1-22-01

FDOT

rmr

TNM 2.5

INPUT: GROUND ZONES

PROJECT/CONTRACT: 410755-1-22-01

RUN: Sr 679 - Existing and No-Build

Ground Zone Name	Type	Flow Resistivity cgs rayls	Points		
			No.	Coordinates X ft	Y ft
S median	Field	150	1	0.0	850.0
			2	750.0	850.0
			3	750.0	900.0
			4	0.0	900.0
Mld median	Field	150	5	905.0	895.0
			31	905.0	860.0
			6	1,400.0	850.0
			7	1,680.0	880.0
			32	1,680.0	905.0
			8	1,400.0	900.0
East Water	Water	20000	14	2,369.0	887.0
			15	2,000.0	200.0
			17	1,800.0	-200.0
			33	3,700.0	-200.0
			25	3,700.0	887.0
West water	Water	20000	27	2,400.0	925.0
			28	2,400.0	2,000.0
			29	3,700.0	2,000.0
			30	3,700.0	925.0

RESULTS: SOUND LEVELS

410755-1-22-01

FDOT
rmi

TNM 2.5
Calculated with TNM 2.5

RESULTS: SOUND LEVELS

PROJECT/CONTRACT:

410755-1-22-01

RUN: Sr 679 - Existing and No- Build

BARRIER DESIGN:

INPUT HEIGHTS

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

ATMOSPHERICS:

68 deg F, 50% RH

Receiver Name	No.	#DUs	Existing			No Barrier			Increase over existing			Type Impact	With Barrier		
			L _{Aeq} 1h	Crit'n	dBA	L _{Aeq} 1h	Crit'n	dBA	Calculated	Crit'n	dB		Calculated	L _{Aeq} 1h	Calculated
n condo1a	2	1	0.0	58.7	66	58.7	10	58.7	10	-----	-----	58.7	0.0	8	-8.0
n condo1b	3	1	0.0	60.1	66	60.1	10	60.1	10	-----	-----	60.1	0.0	8	-8.0
n condo1c	4	1	0.0	59.9	66	59.9	10	59.9	10	-----	-----	59.9	0.0	8	-8.0
n condo2a	5	1	0.0	57.2	66	57.2	10	57.2	10	-----	-----	57.2	0.0	8	-8.0
n condo2b	7	1	0.0	58.8	66	58.8	10	58.8	10	-----	-----	58.8	0.0	8	-8.0
n condo2c	8	1	0.0	58.7	66	58.7	10	58.7	10	-----	-----	58.7	0.0	8	-8.0
s condo1a	9	1	0.0	64.7	66	64.7	10	64.7	10	-----	-----	64.7	0.0	8	-8.0
s condo1b	10	1	0.0	64.6	66	64.6	10	64.6	10	-----	-----	64.6	0.0	8	-8.0
s condo1c	11	1	0.0	64.4	66	64.4	10	64.4	10	-----	-----	64.4	0.0	8	-8.0
s condo2a	12	1	0.0	63.6	66	63.6	10	63.6	10	-----	-----	63.6	0.0	8	-8.0
s condo2b	13	1	0.0	63.6	66	63.6	10	63.6	10	-----	-----	63.6	0.0	8	-8.0
s condo2c	14	1	0.0	63.6	66	63.6	10	63.6	10	-----	-----	63.6	0.0	8	-8.0
s condo3a	15	1	0.0	63.5	66	63.5	10	63.5	10	-----	-----	63.5	0.0	8	-8.0
s condo3b	16	1	0.0	63.5	66	63.5	10	63.5	10	-----	-----	63.5	0.0	8	-8.0
s condo3c	17	1	0.0	63.5	66	63.5	10	63.5	10	-----	-----	63.5	0.0	8	-8.0
66dBA	18	1	0.0	66.0	66	66.0	10	66.0	10	Snd Lvl	-----	66.0	0.0	8	-8.0
Tennis Court 1	19	1	0.0	61.8	66	61.8	10	61.8	10	-----	-----	61.8	0.0	8	-8.0
Tennis Court 2	20	1	0.0	57.2	66	57.2	10	57.2	10	-----	-----	57.2	0.0	8	-8.0
Tennis Court 3	21	1	0.0	58.7	66	58.7	10	58.7	10	-----	-----	58.7	0.0	8	-8.0
home 1	26	1	0.0	48.9	66	48.9	10	48.9	10	-----	-----	48.9	0.0	8	-8.0
home 2	27	1	0.0	47.8	66	47.8	10	47.8	10	-----	-----	47.8	0.0	8	-8.0

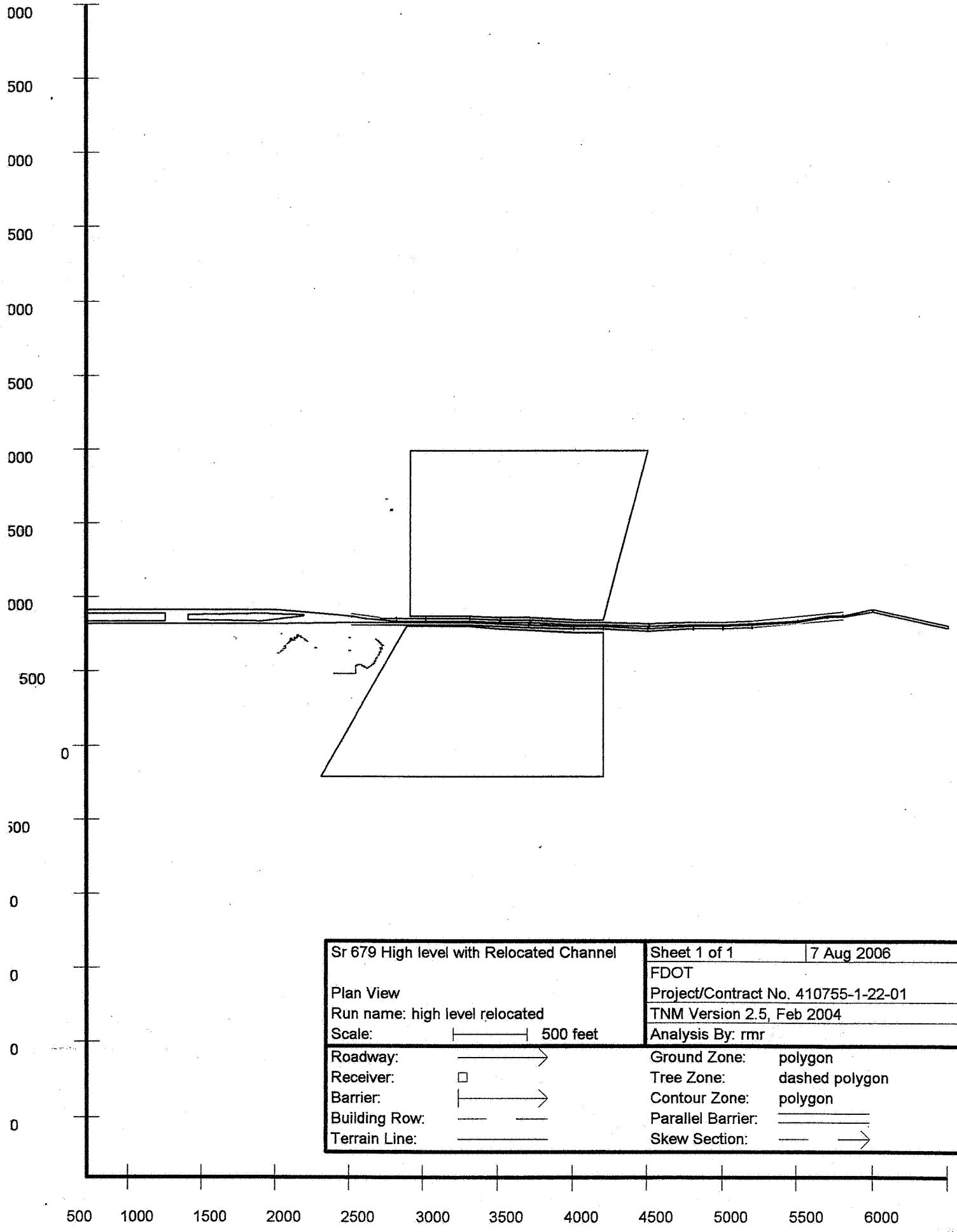
Dwelling Units	# DUs			Noise Reduction		
	Min	Avg	Max	Min	Avg	Max


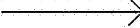

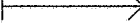

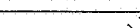


RESULTS: SOUND LEVELS

410755-1-22-01

	dB	dB	dB
All Selected	21	0.0	0.0
All Impacted	1	0.0	0.0
All that meet NR Goal	0	0.0	0.0

C-2



Sr 679 High level with Relocated Channel		Sheet 1 of 1	7 Aug 2006
Plan View		FDOT	
Run name: high level relocated		Project/Contract No. 410755-1-22-01	
Scale:  500 feet		TNM Version 2.5, Feb 2004	
Roadway:		Ground Zone:	polygon
Receiver:		Tree Zone:	dashed polygon
Barrier:		Contour Zone:	polygon
Building Row:		Parallel Barrier:	
Terrain Line:		Skew Section:	

INPUT: ROADWAYS

410755-1-22-01

FDOT
rnr

TNIM 2.5

INPUT: ROADWAYS

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

PROJECT/CONTRACT: 410755-1-22-01

RUN: Sr 679 High level with Relocated Channel

Roadway Name	Width ft	Points			Coordinates (pavement)			Flow Control			Segment	
		Name	No.	X	Y	Z	Control Device	Speed Constraint	Percent Vehicles Affected	Pvmt Type	On Struct?	
NB Roadway 1	36.0	nb255	1	0.0	830.0	7.00				Average		
		nb260	2	500.0	830.0	7.00				Average		
		nb265	3	1,000.0	830.0	7.00				Average		
		nb270	4	1,500.0	830.0	7.00				Average		
		nb275	5	2,000.0	840.0	10.00				Average		
		nb277	6	2,100.0	840.0	15.00				Average		
NB Roadway 2	12.0	nb277	8	2,100.0	840.0	15.00				Average		
		nb278	9	2,300.0	840.0	25.00				Average	Y	
		nb280	10	2,500.0	840.0	35.00				Average	Y	
		nb283	11	2,800.0	840.0	50.00				Average	Y	
		nb285	12	3,000.0	830.0	60.00				Average	Y	
		nb287	13	3,200.0	825.0	68.00				Average	Y	
		nb280	14	3,500.0	810.0	74.00				Average	Y	
		nb292	15	3,700.0	810.0	75.00				Average	Y	
		nb295	16	4,000.0	800.0	70.00				Average	Y	
		nb298	17	4,300.0	810.0	60.00				Average	Y	
		nb300	18	4,500.0	810.0	50.00				Average	Y	
SB Roadway 2		nb302	19	4,700.0	820.0	40.00				Average		
		nb305	20	5,000.0	840.0	25.00				Average		
		nb307	21	5,200.0	870.0	15.00				Average		
		nb308	22	5,300.0	875.0	12.00				Average		
		nb310	23	5,500.0	910.0	7.00				Average		
		nb315	24	6,000.0	800.0	7.00				Average		
	12.0	sb315	26	6,000.0	812.0	7.00				Average		
		sb310	27	5,500.0	922.0	7.00				Average		

INPUT: ROADWAYS

410755-1-22-01

	sb308	28	5,300.0	887.0	12.00			Average	
	sb307	29	5,200.0	882.0	15.00			Average	
	sb305	30	5,000.0	852.0	25.00			Average	
	sb302	31	4,700.0	832.0	40.00			Average	Y
	sb300	32	4,500.0	822.0	50.00			Average	Y
	sb298	33	4,300.0	822.0	60.00			Average	Y
	sb295	34	4,000.0	812.0	70.00			Average	Y
	sb292	35	3,700.0	822.0	75.00			Average	Y
	sb290	36	3,500.0	822.0	74.00			Average	Y
	sb287	37	3,200.0	837.0	68.00			Average	Y
	sb285	38	3,000.0	842.0	60.00			Average	Y
	sb283	39	2,800.0	852.0	50.00			Average	Y
	sb280	40	2,500.0	852.0	35.00			Average	Y
	sb278	41	2,300.0	852.0	25.00			Average	Y
	sb277	42	2,100.0	865.0	15.00				
SB Roadway 1	sb277	46	2,100.0	865.0	15.00			Average	
	sb275	47	2,000.0	880.0	10.00			Average	
	sb270	48	1,500.0	925.0	7.00			Average	
	sb265	49	1,000.0	925.0	7.00			Average	
	sb260	50	500.0	925.0	7.00			Average	
	sb255	51	0.0	925.0	7.00				
east edge	nb277	53	2,200.0	823.0	19.00			Average	
	nb278	54	2,300.0	823.0	25.00			Average	
	nb280	55	2,500.0	823.0	35.00			Average	Y
	nb283	56	2,800.0	823.0	50.00			Average	Y
	nb285	57	3,000.0	813.0	60.00			Average	Y
	nb287	58	3,200.0	808.0	68.00			Average	Y
	nb280	59	3,500.0	793.0	74.00			Average	Y
	nb292	60	3,700.0	793.0	75.00			Average	Y
	nb295	61	4,000.0	783.0	70.00			Average	Y
	nb298	62	4,300.0	793.0	60.00			Average	Y
	nb300	63	4,500.0	793.0	50.00			Average	Y
	nb302	64	4,700.0	803.0	40.00				
west edge	sb302	75	4,700.0	849.0	40.00			Average	
	sb300	76	4,500.0	839.0	50.00			Average	Y
	sb298	77	4,300.0	839.0	60.00			Average	Y
	sb295	78	4,000.0	829.0	70.00			Average	Y
	sb292	79	3,700.0	839.0	76.00			Average	Y

INPUT: ROADWAYS

410755-1-22-01

	sb290	80	3,500.0	839.0	74.00			Average	Y
	sb287	81	3,200.0	854.0	68.00			Average	Y
	sb285	82	3,000.0	859.0	60.00			Average	Y
	sb283	83	2,800.0	869.0	50.00			Average	Y
	sb280	84	2,500.0	869.0	35.00			Average	Y
	sb278	85	2,300.0	869.0	25.00			Average	
	sb277	86	2,200.0	869.0	19.00				

INPUT: ROADWAYS

410755-1-22-01

FDOT
rnr

TNM 2.5

INPUT: ROADWAYS

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

410755-1-22-01

Sr 679 High level with Relocated Channel

RUN:

Roadway Name	Width ft	Points			Coordinates (pavement)			Flow Control			Segment	
		Name	No.		X	Y	Z	Control Device	Speed Constraint mph	Percent Vehicles Affected %	Pvmt Type	On Struct?
NB Roadway 1	36.0	nb255	1	0.0	830.0	7.00					Average	
		nb260	2	500.0	830.0	7.00					Average	
		nb265	3	1,000.0	830.0	7.00					Average	
		nb270	4	1,500.0	830.0	7.00					Average	
		nb275	5	2,000.0	840.0	10.00					Average	
NB Roadway 2		nb277	6	2,100.0	840.0	15.00					Average	
	12.0	nb277	8	2,100.0	840.0	15.00					Average	
		nb278	9	2,300.0	840.0	25.00					Average	Y
		nb280	10	2,500.0	840.0	35.00					Average	Y
		nb283	11	2,800.0	840.0	50.00					Average	Y
		nb285	12	3,000.0	830.0	60.00					Average	Y
		nb287	13	3,200.0	825.0	68.00					Average	Y
		nb280	14	3,500.0	810.0	74.00					Average	Y
		nb292	15	3,700.0	810.0	75.00					Average	Y
		nb295	16	4,000.0	800.0	70.00					Average	Y
		nb298	17	4,300.0	810.0	60.00					Average	Y
		nb300	18	4,500.0	810.0	50.00					Average	Y
	nb302	19	4,700.0	820.0	40.00					Average		
	nb305	20	5,000.0	840.0	25.00					Average		
	nb307	21	5,200.0	870.0	15.00					Average		
	nb308	22	5,300.0	875.0	12.00					Average		
	nb310	23	5,500.0	910.0	7.00					Average		
	nb315	24	6,000.0	800.0	7.00					Average		
SB Roadway 2		sb315	26	6,000.0	812.0	7.00					Average	
	12.0	sb310	27	5,500.0	922.0	7.00					Average	

U:ITNM JOBS\SR 679\SR 679\high level relocated

INPUT: ROADWAYS

410755-1-22-01

								12.00					Average	
								15.00					Average	
								25.00					Average	
								40.00					Average	
								50.00					Average	Y
								60.00					Average	Y
								70.00					Average	Y
								75.00					Average	Y
								74.00					Average	Y
								68.00					Average	Y
								60.00					Average	Y
								50.00					Average	Y
								35.00					Average	Y
								25.00					Average	Y
								15.00					Average	Y
SB Roadway 1								15.00					Average	
								10.00					Average	
								7.00					Average	
								7.00					Average	
								7.00					Average	
								7.00					Average	
								7.00					Average	
								7.00					Average	
								0.0					Average	
east edge		22.0						19.00					Average	
								25.00					Average	
								35.00					Average	Y
								50.00					Average	Y
								60.00					Average	Y
								68.00					Average	Y
								74.00					Average	Y
								75.00					Average	Y
								70.00					Average	Y
								60.00					Average	Y
								50.00					Average	Y
								40.00					Average	Y
								40.00					Average	
								50.00					Average	Y
								60.00					Average	Y
								70.00					Average	Y
								76.00					Average	Y

INPUT: ROADWAYS

410755-1-22-01

sb290	80	3,500.0	839.0	74.00	Average	Y
sb287	81	3,200.0	854.0	68.00	Average	Y
sb285	82	3,000.0	859.0	60.00	Average	Y
sb283	83	2,800.0	869.0	50.00	Average	Y
sb280	84	2,500.0	869.0	35.00	Average	Y
sb278	85	2,300.0	869.0	25.00	Average	
sb277	86	2,200.0	869.0	19.00		

INPUT: TRAFFIC FOR LAeq1h Volumes

410755-1-22-01

FDOT
rnr

TNM 2.5

INPUT: TRAFFIC FOR LAeq1h Volumes

PROJECT/CONTRACT: 410755-1-22-01

RUN: Sr 679 High level with Relocated Channel

Roadway		Points																			
Name	No.	Segment						MTrucks			HTTrucks			Buses			Motorcycles				
		Autos		MTrucks		HTTrucks		Buses		Motorcycles		Autos		MTrucks		HTTrucks		Buses		Motorcycles	
		V	S	V	S	V	S	V	S	V	S	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	veh/hr	mph	veh/hr	mph	veh/hr	mph	veh/hr	mph
NB Roadway 1	1	841	45	28	45	8	45	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2	841	45	28	45	8	45	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3	841	45	28	45	8	45	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4	841	45	28	45	8	45	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5	841	45	28	45	8	45	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6																				
NB Roadway 2	8	841	45	28	45	8	45	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	9	841	45	28	45	8	45	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10	841	45	28	45	8	45	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	11	841	45	28	45	8	45	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12	841	45	28	45	8	45	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	13	841	45	28	45	8	45	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	14	841	45	28	45	8	45	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15	841	45	28	45	8	45	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	16	841	45	28	45	8	45	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	17	841	45	28	45	8	45	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18	841	45	28	45	8	45	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	19	841	45	28	45	8	45	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20	841	45	28	45	8	45	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	21	841	45	28	45	8	45	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	22	841	45	28	45	8	45	0	0	0	0	0	0	0	0	0	0	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

410755-1-22-01

	nb310	23	841	45	28	45	8	45	0	0	0	0	
	nb315	24											
SB Roadway 2	sb315	26	414	45	14	45	4	45	0	0	0	0	
	sb310	27	414	45	14	45	4	45	0	0	0	0	
	sb308	28	414	45	14	45	4	45	0	0	0	0	
	sb307	29	414	45	14	45	4	45	0	0	0	0	
	sb305	30	414	45	14	45	4	45	0	0	0	0	
	sb302	31	414	45	14	45	4	45	0	0	0	0	
	sb300	32	414	45	14	45	4	45	0	0	0	0	
	sb298	33	414	45	14	45	4	45	0	0	0	0	
	sb295	34	414	45	14	45	4	45	0	0	0	0	
	sb292	35	414	45	14	45	4	45	0	0	0	0	
sb290	36	414	45	14	45	4	45	0	0	0	0		
sb287	37	414	45	14	45	4	45	0	0	0	0		
sb285	38	414	45	14	45	4	45	0	0	0	0		
sb283	39	414	45	14	45	4	45	0	0	0	0		
sb280	40	414	45	14	45	4	45	0	0	0	0		
sb278	41	414	45	14	45	4	45	0	0	0	0		
sb277	42												
SB Roadway 1	sb277	46	414	45	14	45	4	45	0	0	0	0	
	sb275	47	414	45	14	45	4	45	0	0	0	0	
	sb270	48	414	45	14	45	4	45	0	0	0	0	
	sb265	49	414	45	14	45	4	45	0	0	0	0	
	sb260	50	414	45	14	45	4	45	0	0	0	0	
	sb255	51											
	east edge	nb277	53	0	0	0	0	0	0	0	0	0	0
		nb278	54	0	0	0	0	0	0	0	0	0	0
		nb280	55	0	0	0	0	0	0	0	0	0	0
		nb283	56	0	0	0	0	0	0	0	0	0	0
nb285		57	0	0	0	0	0	0	0	0	0	0	
nb287		58	0	0	0	0	0	0	0	0	0	0	
nb290		59	0	0	0	0	0	0	0	0	0	0	
nb292		60	0	0	0	0	0	0	0	0	0	0	

INPUT: TRAFFIC FOR LAeq1h Volumes

410755-1-22-01

	nb295	61	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	nb298	62	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	nb300	63	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	nb302	64																	
west edge	sb302	75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	sb300	76	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	sb298	77	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	sb295	78	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	sb292	79	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	sb290	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	sb287	81	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	sb285	82	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	sb283	83	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	sb280	84	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	sb278	85	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	sb277	86																	

INPUT: RECEIVERS

410755-1-22-01

FDOT
rnr

TNIM 2.5

INPUT: RECEIVERS
PROJECT/CONTRACT:

410755-1-22-01

RUN: Sr 679 High level with Relocated Channel

Receiver Name	No.	#DUs	Coordinates (ground)			Height above Ground	Input Sound Levels and Criteria				Active in Calc.	
			X	Y	Z		Existing LAeq1h	Impact Criteria LAeq1h	Sub'l	NR Goal		
			ft	ft	ft	ft	dBA	dBA	dB			
n condo1a	1	1	2,212.0	683.0	7.00	15.00	0.00	66	10.0	8.0	Y	
n condo1b	2	1	2,212.0	683.0	7.00	30.00	0.00	66	10.0	8.0	Y	
n condo 1c	3	1	2,212.0	683.0	7.00	45.00	0.00	66	10.0	8.0	Y	
n condo 2a	4	1	2,207.0	665.0	7.00	15.00	0.00	66	10.0	8.0	Y	
n condo 2b	5	1	2,207.0	665.0	7.00	30.00	0.00	66	10.0	8.0	Y	
n condo 2c	6	1	2,207.0	665.0	7.00	45.00	0.00	66	10.0	8.0	Y	
s condo 1a	7	1	1,637.0	748.0	7.00	15.00	0.00	66	10.0	8.0	Y	
s condo 1b	8	1	1,637.0	748.0	7.00	30.00	0.00	66	10.0	8.0	Y	
s condo 1c	9	1	1,637.0	748.0	7.00	45.00	0.00	66	10.0	8.0	Y	
s condo 2a	10	1	1,618.0	731.0	7.00	15.00	0.00	66	10.0	8.0	Y	
s condo 2b	11	1	1,618.0	731.0	7.00	30.00	0.00	66	10.0	8.0	Y	
s condo 2c	12	1	1,618.0	731.0	7.00	45.00	0.00	66	10.0	8.0	Y	
s condo 3a	13	1	1,593.0	722.0	7.00	15.00	0.00	66	10.0	8.0	Y	
s condo 3b	14	1	1,593.0	722.0	7.00	30.00	0.00	66	10.0	8.0	Y	
s condo 3c	15	1	1,593.0	722.0	7.00	45.00	0.00	66	10.0	8.0	Y	
66dBA	16	1	1,530.0	763.0	7.00	5.00	0.00	66	10.0	8.0	Y	
Tennis Court 1	17	1	1,990.0	735.0	7.00	5.00	0.00	66	10.0	8.0	Y	
Tennis Court 2	18	1	1,990.0	650.0	7.00	5.00	0.00	66	10.0	8.0	Y	
Tennis Court 3	19	1	1,760.0	670.0	7.00	5.00	0.00	66	10.0	8.0	Y	
home 1	20	1	2,275.0	1,600.0	7.00	5.00	0.00	66	10.0	8.0	Y	
home 2	21	1	2,240.0	1,675.0	7.00	5.00	0.00	66	10.0	8.0	Y	

INPUT: BUILDING ROWS

410755-1-22-01

FDOT
rnr

TNM 2.5

INPUT: BUILDING ROWS

PROJECT/CONTRACT: 410755-1-22-01

RUN: Sr 679 High level with Relocater

Building Row		Points				
Name	Average Height ft	Building Percent %	No.	Coordinates (ground)		
				X ft	Y ft	Z ft
n condo	60.00	80	1	2,170.0	725.0	7.00
			2	2,210.0	690.0	7.00
			3	2,200.0	650.0	7.00
			4	2,150.0	560.0	7.00
			5	2,110.0	530.0	7.00
			6	2,060.0	560.0	7.00
			7	2,030.0	550.0	7.00
			8	2,030.0	500.0	7.00
			9	1,880.0	500.0	7.00
s condo	60.00	80	10	1,700.0	715.0	7.00
			11	1,645.0	750.0	7.00
			12	1,610.0	720.0	7.00
			13	1,600.0	725.0	7.00
			14	1,550.0	680.0	7.00
			15	1,560.0	670.0	7.00
			16	1,505.0	630.0	7.00

INPUT: TERRAIN LINES

FDOT

mmr

TNM 2.5

INPUT: TERRAIN LINES

PROJECT/CONTRACT:

410755-1-22-01

RUN:

Sr 679 High level with Relocated Channel

Terrain Line Name	Points			Z ft	0.00
	No.	Coordinates (ground)			
	X ft	Y ft	Z ft		
NB TL south	1	2,000.0	822.0	0.00	0.00
	2	2,200.0	822.0	0.00	0.00
SB TL south	4	2,000.0	898.0	0.00	0.00
	5	2,200.0	870.0	0.00	0.00
NB TL north	7	4,700.0	802.0	0.00	0.00
	8	5,300.0	857.0	0.00	0.00
SB TL north	10	4,700.0	850.0	0.00	0.00
	11	5,300.0	905.0	0.00	0.00

INPUT: GROUND ZONES

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FDOT
rnr

TNM 2.5

INPUT: GROUND ZONES
PROJECT/CONTRACT:
RUN:

410755-1-22-01
Sr 679 High level with Relocated Channel

Ground Zone Name	Type	Flow Resistivity cgs ray/s	Points		
			No.	Coordinates	
				X ft	Y ft
s median	Field	150	1	0.0	850.0
			2	750.0	850.0
			3	750.0	900.0
			4	0.0	900.0
mid median	Field	150	10	905.0	895.0
			11	905.0	860.0
			12	1,400.0	850.0
			13	1,680.0	880.0
			14	1,680.0	895.0
			15	1,400.0	900.0
east water	Water	20000	20	2,369.0	810.0
			21	2,500.0	810.0
			22	2,800.0	810.0
			23	3,000.0	798.0
			24	3,200.0	790.0
			25	3,500.0	775.0
			26	3,700.0	775.0
			27	3,700.0	-200.0
			91	1,800.0	-200.0
west water	Water	20000	82	3,700.0	855.0
			83	3,500.0	855.0

INPUT: GROUND ZONES

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				84	3,200.0	870.0
				85	3,000.0	875.0
				86	2,800.0	885.0
				87	2,500.0	885.0
				88	2,400.0	885.0
				89	2,400.0	2,000.0
				90	4,000.0	2,000.0

RESULTS: SOUND LEVELS

410755-1-22-01

FDOT
rnr

TNM 2.5
Calculated with TNM 2.5

RESULTS: SOUND LEVELS

PROJECT/CONTRACT: 410755-1-22-01

RUN: Sr 679 High level with Relocated Channel

BARRIER DESIGN: INPUT HEIGHTS

ATMOSPHERICS: 68 deg F, 50% RH

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

Receiver Name	No.	#DUs	Existing		No Barrier		Increase over existing		Type Impact	With Barrier		Noise Reduction Calculated	Goal	Calculated minus Goal
			L Aeq1h dBA	Crit'n	L Aeq1h dBA	Crit'n	Calculated dBA	Crit'n Sub'l Inc		Calculated dBA	Goal dB			
n condo1a	1	1	0.0	60.6	66	60.6	10	60.6	-----	60.6	0.0	8	-8.0	
n condo1b	2	1	0.0	61.4	66	61.4	10	61.4	-----	61.4	0.0	8	-8.0	
n condo 1c	3	1	0.0	61.2	66	61.2	10	61.2	-----	61.2	0.0	8	-8.0	
n condo 2a	4	1	0.0	58.8	66	58.8	10	58.8	-----	58.8	0.0	8	-8.0	
n condo 2b	5	1	0.0	60.0	66	60.0	10	60.0	-----	60.0	0.0	8	-8.0	
n condo 2c	6	1	0.0	60.2	66	60.2	10	60.2	-----	60.2	0.0	8	-8.0	
s condo 1a	7	1	0.0	65.3	66	65.3	10	65.3	-----	65.3	0.0	8	-8.0	
s condo 1b	8	1	0.0	65.1	66	65.1	10	65.1	-----	65.1	0.0	8	-8.0	
s condo 1c	9	1	0.0	64.8	66	64.8	10	64.8	-----	64.8	0.0	8	-8.0	
s condo 2a	10	1	0.0	64.0	66	64.0	10	64.0	-----	64.0	0.0	8	-8.0	
s condo 2b	11	1	0.0	63.9	66	63.9	10	63.9	-----	63.9	0.0	8	-8.0	
s condo 2c	12	1	0.0	63.7	66	63.7	10	63.7	-----	63.7	0.0	8	-8.0	
s condo 3a	13	1	0.0	63.8	66	63.8	10	63.8	-----	63.8	0.0	8	-8.0	
s condo 3b	14	1	0.0	63.7	66	63.7	10	63.7	-----	63.7	0.0	8	-8.0	
s condo 3c	15	1	0.0	63.7	66	63.7	10	63.7	-----	63.7	0.0	8	-8.0	
66dBA	16	1	0.0	66.0	66	66.0	10	66.0	Snd Lvl	66.0	0.0	8	-8.0	
Tennis Court 1	17	1	0.0	64.1	66	64.1	10	64.1	-----	64.1	0.0	8	-8.0	
Tennis Court 2	18	1	0.0	59.3	66	59.3	10	59.3	-----	59.3	0.0	8	-8.0	
Tennis Court 3	19	1	0.0	60.1	66	60.1	10	60.1	-----	60.1	0.0	8	-8.0	
home 1	20	1	0.0	48.6	66	48.6	10	48.6	-----	48.6	0.0	8	-8.0	
home 2	21	1	0.0	47.6	66	47.6	10	47.6	-----	47.6	0.0	8	-8.0	
Dwelling Units			# DUs		Noise Reduction		Avg		Max					
					Min		Avg		Max					

RESULTS: SOUND LEVELS

410755-1-22-01

	dB	dB	dB
All Selected	21	0.0	0.0
All Impacted	1	0.0	0.0
All that meet NR Goal	0	0.0	0.0