

RESULTS: BARRIER DESIGN

I-20 Widening

ICA Engineering										
Will Kerr/Wayne Hall										
RESULTS: BARRIER DESIGN										
PROJECT/CONTRACT:	I-20 Widening									
RUN:	2037 SC 6 to Longs Pond Road - Wall 1									
BARRIER DESIGN:	INPUT HEIGHTS									
ATMOSPHERICS:	68 deg F, 50% RH									
Selected Receivers										
Name	No.									
		Calc	Noise Reduction			Barrier Reviewed	Important Segments			Partial
		L _{Aeq1h}	Calc	Goal	Calc-Goal		Name	No.	Height	L _{Aeq1h}
		dBA	dB	dB	dB				ft	dBA
Receiver205	205	62.9	8.4	8	0.4	Wall 1	257+50.00	62	25.0	53.7
						Wall 1	258+50.00	63	25.0	53.4
						Wall 1	256+50.00	61	25.0	49.3
						Wall 1	259+50.00	64	25.0	48.8
						Wall 1	255+50.00	60	25.0	46.3
						Wall 1	254+50.00	59	25.0	45.7
						Wall 1	260+50.00	65	25.0	45.6
						Wall 1	261+50.00	66	25.0	44.0
						Wall 1	262+50.00	67	25.0	38.0
						Wall 1	250+50.00	55	25.0	35.7
Receiver206	206	61.4	10.8	8	2.8	Wall 1	255+50.00	60	25.0	54.3
						Wall 1	254+50.00	59	25.0	53.6
						Wall 1	256+50.00	61	25.0	51.1
						Wall 1	253+50.00	58	25.0	49.3
						Wall 1	250+50.00	55	25.0	47.5
						Wall 1	249+50.00	54	25.0	46.7
						Wall 1	248+50.00	53	25.0	43.8
						Wall 1	260+50.00	65	25.0	42.7
						Wall 1	257+50.00	62	25.0	40.8
						Wall 1	261+50.00	66	25.0	39.6
Receiver207	207	56.3	6.7	8	-1.3	Wall 1	252+50.00	57	25.0	44.4

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						Wall 1	251+50.00	56	25.0	43.7
						Wall 1	253+50.00	58	25.0	43.0
						Wall 1	250+50.00	55	25.0	42.8
						Wall 1	249+50.00	54	25.0	42.4
						Wall 1	254+50.00	59	25.0	41.8
						Wall 1	248+50.00	53	25.0	41.7
						Wall 1	255+50.00	60	25.0	41.0
						Wall 1	247+50.00	52	25.0	40.8
						Wall 1	243+50.00	48	25.0	40.6
Receiver208	208	56.0	8.3	8	0.3	Wall 1	252+50.00	57	25.0	43.6
						Wall 1	251+50.00	56	25.0	43.0
						Wall 1	248+50.00	53	25.0	42.3
						Wall 1	247+50.00	52	25.0	42.2
						Wall 1	249+50.00	54	25.0	42.0
						Wall 1	253+50.00	58	25.0	41.7
						Wall 1	246+50.00	51	25.0	41.7
						Wall 1	243+50.00	48	25.0	41.5
						Wall 1	250+50.00	55	25.0	41.4
						Wall 1	244+50.00	49	25.0	41.3
Receiver209	209	55.7	8.7	8	0.7	Wall 1	252+50.00	57	25.0	43.0
						Wall 1	251+50.00	56	25.0	42.2
						Wall 1	247+50.00	52	25.0	41.8
						Wall 1	243+50.00	48	25.0	41.7
						Wall 1	246+50.00	51	25.0	41.6
						Wall 1	248+50.00	53	25.0	41.5
						Wall 1	244+50.00	49	25.0	41.4
						Wall 1	245+50.00	50	25.0	41.2
						Wall 1	253+50.00	58	25.0	41.0
						Wall 1	242+50.00	47	25.0	41.0
Receiver210	210	55.8	9.1	8	1.1	Wall 1	252+50.00	57	25.0	43.2
						Wall 1	243+50.00	48	25.0	42.9
						Wall 1	244+50.00	49	25.0	42.6
						Wall 1	246+50.00	51	25.0	42.4
						Wall 1	251+50.00	56	25.0	42.4
						Wall 1	245+50.00	50	25.0	42.3
						Wall 1	242+50.00	47	25.0	42.2

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						Wall 1	247+50.00	52	25.0	42.2
						Wall 1	248+50.00	53	25.0	41.7
						Wall 1	241+50.00	46	25.0	41.0
Receiver211	211	55.5	9.3	8	1.3	Wall 1	243+50.00	48	25.0	43.1
						Wall 1	242+50.00	47	25.0	43.1
						Wall 1	252+50.00	57	25.0	43.0
						Wall 1	241+50.00	46	25.0	42.4
						Wall 1	256+50.00	61	25.0	42.3
						Wall 1	244+50.00	49	25.0	42.1
						Wall 1	251+50.00	56	25.0	41.5
						Wall 1	257+50.00	62	25.0	41.4
						Wall 1	240+50.00	45	25.0	41.3
						Wall 1	245+50.00	50	25.0	41.1
Receiver212	212	56.2	10.1	8	2.1	Wall 1	243+50.00	48	25.0	44.6
						Wall 1	252+50.00	57	25.0	44.5
						Wall 1	242+50.00	47	25.0	44.4
						Wall 1	241+50.00	46	25.0	43.6
						Wall 1	244+50.00	49	25.0	43.5
						Wall 1	251+50.00	56	25.0	42.9
						Wall 1	245+50.00	50	25.0	42.5
						Wall 1	255+50.00	60	25.0	42.3
						Wall 1	240+50.00	45	25.0	42.2
						Wall 1	246+50.00	51	25.0	41.9
Receiver213	213	57.5	11.6	8	3.6	Wall 1	243+50.00	48	25.0	47.5
						Wall 1	244+50.00	49	25.0	46.9
						Wall 1	252+50.00	57	25.0	46.8
						Wall 1	251+50.00	56	25.0	46.8
						Wall 1	242+50.00	47	25.0	46.7
						Wall 1	245+50.00	50	25.0	46.0
						Wall 1	241+50.00	46	25.0	45.3
						Wall 1	246+50.00	51	25.0	45.2
						Wall 1	247+50.00	52	25.0	44.3
						Wall 1	240+50.00	45	25.0	43.5
Receiver214	214	55.9	9.1	8	1.1	Wall 1	252+50.00	57	25.0	47.6
						Wall 1	251+50.00	56	25.0	43.9
						Wall 1	242+50.00	47	25.0	43.5

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						Wall 1	241+50.00	46	25.0	43.5
						Wall 1	240+50.00	45	25.0	43.0
						Wall 1	243+50.00	48	25.0	42.8
						Wall 1	239+50.00	44	25.0	42.0
						Wall 1	244+50.00	49	25.0	41.3
						Wall 1	262+50.00	67	25.0	41.2
						Wall 1	238+50.00	43	25.0	40.9
Receiver215	215	57.1	9.8	8	1.8	Wall 1	251+50.00	56	25.0	49.5
						Wall 1	252+50.00	57	25.0	45.4
						Wall 1	242+50.00	47	25.0	45.3
						Wall 1	241+50.00	46	25.0	45.2
						Wall 1	240+50.00	45	25.0	44.7
						Wall 1	243+50.00	48	25.0	44.3
						Wall 1	239+50.00	44	25.0	43.7
						Wall 1	244+50.00	49	25.0	42.5
						Wall 1	238+50.00	43	25.0	42.5
						Wall 1	245+50.00	50	25.0	41.6
Receiver218	218	57.1	11.3	8	3.3	Wall 1	232+50.00	37	25.0	47.0
						Wall 1	233+50.00	38	25.0	46.8
						Wall 1	231+50.00	36	25.0	45.9
						Wall 1	234+50.00	39	25.0	45.4
						Wall 1	230+50.00	35	25.0	44.9
						Wall 1	239+50.00	44	25.0	44.8
						Wall 1	238+50.00	43	25.0	43.9
						Wall 1	235+50.00	40	25.0	43.9
						Wall 1	229+50.00	34	25.0	43.8
						Wall 1	240+50.00	45	25.0	43.7
Receiver219	219	56.2	7.0	8	-1.0	Wall 1	219+50.00	24	25.0	45.5
						Wall 1	218+50.00	23	25.0	45.2
						Wall 1	220+50.00	25	25.0	45.1
						Wall 1	217+50.00	22	25.0	44.2
						Wall 1	221+50.00	26	25.0	44.1
						Wall 1	216+50.00	21	25.0	43.2
						Wall 1	222+50.00	27	25.0	43.1
						Wall 1	206+50.00	11	25.0	42.4
						Wall 1	215+50.00	20	25.0	42.1

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						Wall 1	205+50.00	10	25.0	41.9
Receiver255	223	56.1	6.6	8	-1.4	Wall 1	252+50.00	57	25.0	44.1
						Wall 1	251+50.00	56	25.0	43.3
						Wall 1	253+50.00	58	25.0	42.8
						Wall 1	250+50.00	55	25.0	42.4
						Wall 1	249+50.00	54	25.0	42.0
						Wall 1	254+50.00	59	25.0	41.5
						Wall 1	248+50.00	53	25.0	41.4
						Wall 1	255+50.00	60	25.0	40.8
						Wall 1	247+50.00	52	25.0	40.6
						Wall 1	256+50.00	61	25.0	40.2
Receiver256	224	56.1	7.2	8	-0.8	Wall 1	252+50.00	57	25.0	44.3
						Wall 1	251+50.00	56	25.0	43.8
						Wall 1	250+50.00	55	25.0	42.8
						Wall 1	249+50.00	54	25.0	42.7
						Wall 1	253+50.00	58	25.0	42.6
						Wall 1	248+50.00	53	25.0	42.2
						Wall 1	247+50.00	52	25.0	41.5
						Wall 1	254+50.00	59	25.0	41.3
						Wall 1	243+50.00	48	25.0	40.8
						Wall 1	246+50.00	51	25.0	40.6
Receiver257	225	56.4	7.7	8	-0.3	Wall 1	252+50.00	57	25.0	44.9
						Wall 1	251+50.00	56	25.0	44.5
						Wall 1	249+50.00	54	25.0	43.7
						Wall 1	250+50.00	55	25.0	43.5
						Wall 1	248+50.00	53	25.0	43.3
						Wall 1	253+50.00	58	25.0	42.7
						Wall 1	247+50.00	52	25.0	42.6
						Wall 1	246+50.00	51	25.0	41.6
						Wall 1	243+50.00	48	25.0	41.6
						Wall 1	254+50.00	59	25.0	41.2
Receiver258	226	56.4	8.2	8	0.2	Wall 1	252+50.00	57	25.0	45.0
						Wall 1	251+50.00	56	25.0	44.8
						Wall 1	249+50.00	54	25.0	44.2
						Wall 1	248+50.00	53	25.0	44.1
						Wall 1	250+50.00	55	25.0	43.7

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						Wall 1	247+50.00	52	25.0	43.5
						Wall 1	253+50.00	58	25.0	42.6
						Wall 1	246+50.00	51	25.0	42.5
						Wall 1	243+50.00	48	25.0	42.3
						Wall 1	244+50.00	49	25.0	42.0
Receiver259	227	56.4	9.5	8	1.5	Wall 1	252+50.00	57	25.0	45.9
						Wall 1	251+50.00	56	25.0	45.7
						Wall 1	248+50.00	53	25.0	45.4
						Wall 1	249+50.00	54	25.0	45.1
						Wall 1	247+50.00	52	25.0	44.9
						Wall 1	250+50.00	55	25.0	44.3
						Wall 1	246+50.00	51	25.0	43.9
						Wall 1	243+50.00	48	25.0	43.5
						Wall 1	244+50.00	49	25.0	43.2
						Wall 1	253+50.00	58	25.0	43.0
Receiver260	228	58.8	13.9	8	5.9	Wall 1	244+50.00	49	25.0	49.8
						Wall 1	245+50.00	50	25.0	49.5
						Wall 1	243+50.00	48	25.0	49.5
						Wall 1	251+50.00	56	25.0	49.1
						Wall 1	246+50.00	51	25.0	48.5
						Wall 1	242+50.00	47	25.0	48.0
						Wall 1	247+50.00	52	25.0	47.0
						Wall 1	241+50.00	46	25.0	46.7
						Wall 1	248+50.00	53	25.0	45.7
						Wall 1	250+50.00	55	25.0	45.1
Receiver261	229	59.5	13.8	8	5.8	Wall 1	243+50.00	48	25.0	50.9
						Wall 1	244+50.00	49	25.0	50.7
						Wall 1	245+50.00	50	25.0	49.4
						Wall 1	242+50.00	47	25.0	49.3
						Wall 1	251+50.00	56	25.0	48.8
						Wall 1	246+50.00	51	25.0	48.0
						Wall 1	241+50.00	46	25.0	47.7
						Wall 1	250+50.00	55	25.0	46.7
						Wall 1	247+50.00	52	25.0	46.7
						Wall 1	248+50.00	53	25.0	45.6
Receiver262	230	60.2	13.5	8	5.5	Wall 1	243+50.00	48	25.0	52.0

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						Wall 1	244+50.00	49	25.0	51.0
						Wall 1	242+50.00	47	25.0	50.5
						Wall 1	245+50.00	50	25.0	48.8
						Wall 1	241+50.00	46	25.0	48.6
						Wall 1	249+50.00	54	25.0	48.0
						Wall 1	246+50.00	51	25.0	47.6
						Wall 1	250+50.00	55	25.0	47.1
						Wall 1	247+50.00	52	25.0	46.4
						Wall 1	240+50.00	45	25.0	46.0
Receiver263	231	60.1	13.8	8	5.8	Wall 1	243+50.00	48	25.0	52.7
						Wall 1	242+50.00	47	25.0	51.7
						Wall 1	244+50.00	49	25.0	50.4
						Wall 1	241+50.00	46	25.0	49.4
						Wall 1	245+50.00	50	25.0	48.5
						Wall 1	249+50.00	54	25.0	48.3
						Wall 1	248+50.00	53	25.0	48.0
						Wall 1	246+50.00	51	25.0	47.1
						Wall 1	240+50.00	45	25.0	46.8
						Wall 1	247+50.00	52	25.0	46.2
Receiver264	232	59.9	13.8	8	5.8	Wall 1	242+50.00	47	25.0	52.3
						Wall 1	243+50.00	48	25.0	52.2
						Wall 1	241+50.00	46	25.0	50.0
						Wall 1	244+50.00	49	25.0	49.4
						Wall 1	248+50.00	53	25.0	49.3
						Wall 1	245+50.00	50	25.0	47.7
						Wall 1	240+50.00	45	25.0	47.3
						Wall 1	249+50.00	54	25.0	46.7
						Wall 1	246+50.00	51	25.0	46.5
						Wall 1	247+50.00	52	25.0	45.9
Receiver265	233	59.7	13.2	8	5.2	Wall 1	242+50.00	47	25.0	51.6
						Wall 1	241+50.00	46	25.0	51.0
						Wall 1	243+50.00	48	25.0	50.0
						Wall 1	240+50.00	45	25.0	48.6
						Wall 1	248+50.00	53	25.0	48.5
						Wall 1	247+50.00	52	25.0	48.0
						Wall 1	244+50.00	49	25.0	47.4

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						Wall 1	239+50.00	44	25.0	46.4
						Wall 1	245+50.00	50	25.0	46.2
						Wall 1	246+50.00	51	25.0	45.5
Receiver266	234	58.8	12.2	8	4.2	Wall 1	242+50.00	47	25.0	49.5
						Wall 1	241+50.00	46	25.0	49.1
						Wall 1	243+50.00	48	25.0	48.5
						Wall 1	240+50.00	45	25.0	47.5
						Wall 1	249+50.00	54	25.0	47.3
						Wall 1	250+50.00	55	25.0	46.8
						Wall 1	244+50.00	49	25.0	46.3
						Wall 1	239+50.00	44	25.0	45.7
						Wall 1	245+50.00	50	25.0	45.2
						Wall 1	248+50.00	53	25.0	44.5
Receiver267	235	57.6	10.9	8	2.9	Wall 1	251+50.00	56	25.0	48.1
						Wall 1	242+50.00	47	25.0	47.4
						Wall 1	241+50.00	46	25.0	47.1
						Wall 1	243+50.00	48	25.0	46.6
						Wall 1	240+50.00	45	25.0	45.9
						Wall 1	244+50.00	49	25.0	44.8
						Wall 1	239+50.00	44	25.0	44.4
						Wall 1	250+50.00	55	25.0	43.9
						Wall 1	245+50.00	50	25.0	43.7
						Wall 1	238+50.00	43	25.0	42.9
Receiver268	236	58.1	9.9	8	1.9	Wall 1	251+50.00	56	25.0	49.2
						Wall 1	242+50.00	47	25.0	46.5
						Wall 1	241+50.00	46	25.0	46.2
						Wall 1	243+50.00	48	25.0	45.9
						Wall 1	240+50.00	45	25.0	45.2
						Wall 1	252+50.00	57	25.0	44.8
						Wall 1	244+50.00	49	25.0	44.3
						Wall 1	239+50.00	44	25.0	43.8
						Wall 1	245+50.00	50	25.0	43.1
						Wall 1	238+50.00	43	25.0	42.4
Receiver269	237	58.1	11.3	8	3.3	Wall 1	251+50.00	56	25.0	49.5
						Wall 1	242+50.00	47	25.0	47.8
						Wall 1	243+50.00	48	25.0	47.7

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						Wall 1	241+50.00	46	25.0	46.9
						Wall 1	252+50.00	57	25.0	46.1
						Wall 1	244+50.00	49	25.0	46.0
						Wall 1	240+50.00	45	25.0	45.1
						Wall 1	245+50.00	50	25.0	44.9
						Wall 1	246+50.00	51	25.0	44.0
						Wall 1	239+50.00	44	25.0	43.7
Receiver270	238	57.4	10.8	8	2.8	Wall 1	252+50.00	57	25.0	48.5
						Wall 1	242+50.00	47	25.0	46.6
						Wall 1	243+50.00	48	25.0	46.5
						Wall 1	251+50.00	56	25.0	46.4
						Wall 1	241+50.00	46	25.0	45.8
						Wall 1	244+50.00	49	25.0	44.9
						Wall 1	240+50.00	45	25.0	44.3
						Wall 1	245+50.00	50	25.0	43.9
						Wall 1	246+50.00	51	25.0	43.1
						Wall 1	239+50.00	44	25.0	42.9
Receiver271	239	56.4	10.4	8	2.4	Wall 1	243+50.00	48	25.0	45.1
						Wall 1	252+50.00	57	25.0	45.1
						Wall 1	242+50.00	47	25.0	44.9
						Wall 1	244+50.00	49	25.0	44.1
						Wall 1	241+50.00	46	25.0	44.0
						Wall 1	251+50.00	56	25.0	43.6
						Wall 1	245+50.00	50	25.0	43.2
						Wall 1	240+50.00	45	25.0	42.5
						Wall 1	246+50.00	51	25.0	42.5
						Wall 1	253+50.00	58	25.0	42.0
Receiver272	240	55.9	9.9	8	1.9	Wall 1	243+50.00	48	25.0	44.2
						Wall 1	252+50.00	57	25.0	44.0
						Wall 1	242+50.00	47	25.0	44.0
						Wall 1	241+50.00	46	25.0	43.2
						Wall 1	244+50.00	49	25.0	43.2
						Wall 1	251+50.00	56	25.0	42.5
						Wall 1	245+50.00	50	25.0	42.2
						Wall 1	240+50.00	45	25.0	41.8
						Wall 1	246+50.00	51	25.0	41.6

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						Wall 1	257+50.00	62	25.0	41.1
Receiver273	241	55.8	9.6	8	1.6	Wall 1	243+50.00	48	25.0	43.8
						Wall 1	252+50.00	57	25.0	43.5
						Wall 1	242+50.00	47	25.0	43.3
						Wall 1	244+50.00	49	25.0	43.3
						Wall 1	245+50.00	50	25.0	42.7
						Wall 1	246+50.00	51	25.0	42.4
						Wall 1	251+50.00	56	25.0	42.4
						Wall 1	241+50.00	46	25.0	42.2
						Wall 1	247+50.00	52	25.0	41.8
						Wall 1	248+50.00	53	25.0	41.1
Receiver274	242	55.6	9.1	8	1.1	Wall 1	243+50.00	48	25.0	43.2
						Wall 1	252+50.00	57	25.0	42.8
						Wall 1	242+50.00	47	25.0	42.8
						Wall 1	244+50.00	49	25.0	42.5
						Wall 1	245+50.00	50	25.0	41.9
						Wall 1	251+50.00	56	25.0	41.7
						Wall 1	241+50.00	46	25.0	41.7
						Wall 1	246+50.00	51	25.0	41.6
						Wall 1	247+50.00	52	25.0	41.1
						Wall 1	248+50.00	53	25.0	40.4
Receiver275	243	55.6	8.9	8	0.9	Wall 1	252+50.00	57	25.0	42.7
						Wall 1	243+50.00	48	25.0	42.5
						Wall 1	244+50.00	49	25.0	42.2
						Wall 1	251+50.00	56	25.0	42.0
						Wall 1	246+50.00	51	25.0	42.0
						Wall 1	242+50.00	47	25.0	41.9
						Wall 1	245+50.00	50	25.0	41.9
						Wall 1	247+50.00	52	25.0	41.7
						Wall 1	248+50.00	53	25.0	41.2
						Wall 1	241+50.00	46	25.0	40.7
Receiver276	244	55.3	8.4	8	0.4	Wall 1	252+50.00	57	25.0	42.2
						Wall 1	243+50.00	48	25.0	42.0
						Wall 1	244+50.00	49	25.0	41.6
						Wall 1	242+50.00	47	25.0	41.4
						Wall 1	251+50.00	56	25.0	41.3

RESULTS: BARRIER DESIGN

I-20 Widening

						Wall 1	246+50.00	51	25.0	41.2
						Wall 1	245+50.00	50	25.0	41.2
						Wall 1	247+50.00	52	25.0	41.0
						Wall 1	248+50.00	53	25.0	40.5
						Wall 1	241+50.00	46	25.0	40.3
Total Cost, All Barriers (including additional cost(s))						\$0				