

RESULTS: SOUND-LEVEL DIAGNOSIS BY BARRIER SEGMENT
I-20 Widening

ICA Engineeriing				20 April 2015		
Will Kerr/Wayne Hall				TNM 2.5		
				Calculated with TNM 2.5		
RESULTS: SOUND-LEVEL DIAGNOSIS BY BARRIER SEGMENT						
PROJECT/CONTRACT:	I-20 Widening					
RUN:	2037 SC 6 to Longs Pond Road - Wall 2					
BARRIER DESIGN:	INPUT HEIGHTS					
ATMOSPHERICS:	68 deg F, 50% RH					
Selected Receivers						
Name	No.	Total	Important Barriers	Important Segments		
		LAeq1h	Name	Name	No.	Partial
						LAeq1h
		dBA				dBA
Receiver155	155	66.10	Wall 2	344+50.00	108	47.70
			Wall 2	343+50.00	107	47.30
			Wall 2	335+50.00	99	46.90
			Wall 2	342+50.00	106	46.40
			Wall 2	339+50.00	103	45.50
			Wall 2	341+50.00	105	45.40
			Wall 2	340+50.00	104	45.00
			Wall 2	338+50.00	102	44.70
			Wall 2	336+50.00	100	44.60
			Wall 2	337+50.00	101	43.20
Receiver157	157	55.30	Wall 2	336+50.00	100	42.60
			Wall 2	335+50.00	99	42.60
			Wall 2	337+50.00	101	42.10
			Wall 2	334+50.00	98	41.90
			Wall 2	333+50.00	97	41.90
			Wall 2	338+50.00	102	41.40
			Wall 2	328+50.00	92	41.10
			Wall 2	332+50.00	96	41.00
			Wall 2	339+50.00	103	40.80
			Wall 2	330+50.00	94	40.70

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Receiver158	158	56.10	Wall 2	333+50.00	97	44.00
			Wall 2	332+50.00	96	43.70
			Wall 2	334+50.00	98	43.20
			Wall 2	331+50.00	95	42.70
			Wall 2	335+50.00	99	42.40
			Wall 2	336+50.00	100	41.80
			Wall 2	330+50.00	94	41.80
			Wall 2	325+50.00	89	41.50
			Wall 2	324+50.00	88	41.30
			Wall 2	329+50.00	93	41.00
Receiver159	159	55.40	Wall 2	330+50.00	94	42.90
			Wall 2	329+50.00	93	42.90
			Wall 2	331+50.00	95	42.90
			Wall 2	321+50.00	85	42.70
			Wall 2	328+50.00	92	42.70
			Wall 2	332+50.00	96	42.70
			Wall 2	333+50.00	97	41.80
			Wall 2	327+50.00	91	41.10
			Wall 2	334+50.00	98	40.50
			Wall 2	326+50.00	90	40.40
Receiver160	160	57.60	Wall 2	332+50.00	96	47.40
			Wall 2	333+50.00	97	46.80
			Wall 2	331+50.00	95	46.60
			Wall 2	330+50.00	94	45.50
			Wall 2	334+50.00	98	45.40
			Wall 2	329+50.00	93	44.60
			Wall 2	325+50.00	89	44.30
			Wall 2	328+50.00	92	44.20
			Wall 2	326+50.00	90	43.50
			Wall 2	335+50.00	99	43.30
Receiver162	162	55.70	Wall 2	328+50.00	92	43.80
			Wall 2	329+50.00	93	43.80
			Wall 2	330+50.00	94	43.60
			Wall 2	331+50.00	95	43.20
			Wall 2	321+50.00	85	43.10
			Wall 2	332+50.00	96	43.00

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			Wall 2	327+50.00	91	42.50
			Wall 2	333+50.00	97	41.70
			Wall 2	326+50.00	90	41.60
			Wall 2	320+50.00	84	41.30
Receiver163	163	54.90	Wall 2	327+50.00	91	42.70
			Wall 2	328+50.00	92	42.60
			Wall 2	329+50.00	93	41.80
			Wall 2	326+50.00	90	41.80
			Wall 2	330+50.00	94	41.30
			Wall 2	325+50.00	89	41.20
			Wall 2	331+50.00	95	40.80
			Wall 2	324+50.00	88	40.60
			Wall 2	332+50.00	96	40.30
			Wall 2	323+50.00	87	40.00
Receiver164	164	56.10	Wall 2	328+50.00	92	45.00
			Wall 2	329+50.00	93	44.60
			Wall 2	330+50.00	94	44.10
			Wall 2	321+50.00	85	44.00
			Wall 2	327+50.00	91	43.90
			Wall 2	331+50.00	95	43.60
			Wall 2	332+50.00	96	43.00
			Wall 2	326+50.00	90	42.90
			Wall 2	325+50.00	89	42.10
			Wall 2	333+50.00	97	41.50
Receiver165	165	59.40	Wall 2	331+50.00	95	51.70
			Wall 2	330+50.00	94	50.50
			Wall 2	332+50.00	96	50.40
			Wall 2	328+50.00	92	49.30
			Wall 2	329+50.00	93	48.70
			Wall 2	333+50.00	97	47.80
			Wall 2	334+50.00	98	45.20
			Wall 2	326+50.00	90	43.30
			Wall 2	337+50.00	101	42.50
			Wall 2	338+50.00	102	41.80
Receiver166	166	55.10	Wall 2	327+50.00	91	43.20
			Wall 2	328+50.00	92	42.60

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			Wall 2	326+50.00	90	42.30
			Wall 2	329+50.00	93	41.80
			Wall 2	325+50.00	89	41.80
			Wall 2	324+50.00	88	41.40
			Wall 2	330+50.00	94	41.20
			Wall 2	323+50.00	87	40.80
			Wall 2	331+50.00	95	40.70
			Wall 2	332+50.00	96	40.20
Receiver167	167	56.70	Wall 2	328+50.00	92	46.10
			Wall 2	327+50.00	91	45.70
			Wall 2	329+50.00	93	45.20
			Wall 2	321+50.00	85	44.80
			Wall 2	326+50.00	90	44.50
			Wall 2	330+50.00	94	44.40
			Wall 2	331+50.00	95	43.60
			Wall 2	325+50.00	89	43.60
			Wall 2	332+50.00	96	42.80
			Wall 2	324+50.00	88	42.70
Receiver168	168	55.10	Wall 2	327+50.00	91	43.10
			Wall 2	326+50.00	90	42.30
			Wall 2	328+50.00	92	42.30
			Wall 2	325+50.00	89	41.90
			Wall 2	324+50.00	88	41.70
			Wall 2	329+50.00	93	41.40
			Wall 2	323+50.00	87	41.10
			Wall 2	330+50.00	94	40.70
			Wall 2	322+50.00	86	40.50
			Wall 2	331+50.00	95	40.30
Receiver169	169	57.00	Wall 2	327+50.00	91	46.90
			Wall 2	328+50.00	92	46.40
			Wall 2	326+50.00	90	45.80
			Wall 2	329+50.00	93	45.20
			Wall 2	320+50.00	84	44.90
			Wall 2	325+50.00	89	44.90
			Wall 2	330+50.00	94	44.30
			Wall 2	321+50.00	85	44.00

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			Wall 2	324+50.00	88	44.00
			Wall 2	331+50.00	95	43.40
Receiver170	170	55.80	Wall 2	327+50.00	91	44.20
			Wall 2	326+50.00	90	43.60
			Wall 2	325+50.00	89	43.30
			Wall 2	324+50.00	88	43.20
			Wall 2	328+50.00	92	43.00
			Wall 2	323+50.00	87	42.80
			Wall 2	322+50.00	86	42.10
			Wall 2	329+50.00	93	41.90
			Wall 2	321+50.00	85	41.30
			Wall 2	330+50.00	94	41.30
Receiver171	171	57.30	Wall 2	327+50.00	91	47.60
			Wall 2	326+50.00	90	47.00
			Wall 2	325+50.00	89	46.50
			Wall 2	328+50.00	92	46.10
			Wall 2	320+50.00	84	46.00
			Wall 2	324+50.00	88	45.70
			Wall 2	329+50.00	93	44.80
			Wall 2	323+50.00	87	44.70
			Wall 2	319+50.00	83	44.20
			Wall 2	330+50.00	94	44.00
Receiver172	172	55.30	Wall 2	327+50.00	91	43.00
			Wall 2	324+50.00	88	42.70
			Wall 2	323+50.00	87	42.60
			Wall 2	325+50.00	89	42.40
			Wall 2	326+50.00	90	42.40
			Wall 2	322+50.00	86	42.30
			Wall 2	321+50.00	85	41.70
			Wall 2	328+50.00	92	41.40
			Wall 2	320+50.00	84	41.00
			Wall 2	329+50.00	93	40.60
Receiver173	173	57.20	Wall 2	327+50.00	91	47.40
			Wall 2	326+50.00	90	47.00
			Wall 2	325+50.00	89	46.90
			Wall 2	324+50.00	88	46.60

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			Wall 2	319+50.00	83	46.20
			Wall 2	323+50.00	87	45.70
			Wall 2	328+50.00	92	45.40
			Wall 2	322+50.00	86	44.60
			Wall 2	329+50.00	93	44.60
			Wall 2	321+50.00	85	43.70
Receiver174	174	59.30	Wall 2	326+50.00	90	52.50
			Wall 2	327+50.00	91	52.20
			Wall 2	325+50.00	89	51.10
			Wall 2	323+50.00	87	49.60
			Wall 2	328+50.00	92	49.60
			Wall 2	324+50.00	88	48.80
			Wall 2	322+50.00	86	47.80
			Wall 2	329+50.00	93	47.30
			Wall 2	321+50.00	85	39.10
			Wall 2	320+50.00	84	23.30
Receiver175	175	54.60	Wall 2	322+50.00	86	41.70
			Wall 2	321+50.00	85	41.60
			Wall 2	323+50.00	87	41.60
			Wall 2	327+50.00	91	41.40
			Wall 2	320+50.00	84	41.30
			Wall 2	324+50.00	88	41.20
			Wall 2	319+50.00	83	40.60
			Wall 2	325+50.00	89	40.50
			Wall 2	326+50.00	90	40.50
			Wall 2	318+50.00	82	39.90
Receiver176	176	57.90	Wall 2	324+50.00	88	49.10
			Wall 2	327+50.00	91	48.80
			Wall 2	325+50.00	89	48.70
			Wall 2	323+50.00	87	48.20
			Wall 2	326+50.00	90	47.90
			Wall 2	320+50.00	84	47.50
			Wall 2	328+50.00	92	47.50
			Wall 2	322+50.00	86	46.70
			Wall 2	319+50.00	83	45.70
			Wall 2	321+50.00	85	45.60

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Receiver177	177	55.60	Wall 2	322+50.00	86	44.00
			Wall 2	323+50.00	87	43.80
			Wall 2	321+50.00	85	43.80
			Wall 2	327+50.00	91	43.50
			Wall 2	324+50.00	88	43.30
			Wall 2	320+50.00	84	43.10
			Wall 2	325+50.00	89	42.50
			Wall 2	326+50.00	90	42.50
			Wall 2	319+50.00	83	42.10
			Wall 2	328+50.00	92	42.00
Receiver178	178	57.10	Wall 2	327+50.00	91	48.80
			Wall 2	322+50.00	86	47.30
			Wall 2	323+50.00	87	47.10
			Wall 2	321+50.00	85	46.70
			Wall 2	324+50.00	88	46.10
			Wall 2	320+50.00	84	45.60
			Wall 2	326+50.00	90	45.10
			Wall 2	325+50.00	89	44.90
			Wall 2	319+50.00	83	44.50
			Wall 2	317+50.00	81	44.10
Receiver179	179	58.70	Wall 2	323+50.00	87	50.90
			Wall 2	322+50.00	86	49.90
			Wall 2	324+50.00	88	49.70
			Wall 2	326+50.00	90	49.30
			Wall 2	319+50.00	83	48.90
			Wall 2	321+50.00	85	48.00
			Wall 2	325+50.00	89	47.80
			Wall 2	327+50.00	91	47.70
			Wall 2	320+50.00	84	47.00
			Wall 2	318+50.00	82	43.10
Receiver180	180	54.50	Wall 2	327+50.00	91	44.40
			Wall 2	318+50.00	82	41.60
			Wall 2	319+50.00	83	41.60
			Wall 2	317+50.00	81	41.40
			Wall 2	320+50.00	84	41.40
			Wall 2	316+50.00	80	41.00

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			Wall 2	321+50.00	85	40.80
			Wall 2	315+50.00	79	40.30
			Wall 2	322+50.00	86	40.10
			Wall 2	314+50.00	78	39.70
Receiver181	181	55.40	Wall 2	326+50.00	90	44.10
			Wall 2	319+50.00	83	43.50
			Wall 2	318+50.00	82	43.40
			Wall 2	320+50.00	84	43.20
			Wall 2	317+50.00	81	43.00
			Wall 2	321+50.00	85	42.50
			Wall 2	316+50.00	80	42.30
			Wall 2	322+50.00	86	41.80
			Wall 2	327+50.00	91	41.70
			Wall 2	315+50.00	79	41.60
Receiver182	182	56.80	Wall 2	325+50.00	89	46.30
			Wall 2	319+50.00	83	46.20
			Wall 2	320+50.00	84	46.00
			Wall 2	318+50.00	82	45.90
			Wall 2	321+50.00	85	45.20
			Wall 2	317+50.00	81	45.00
			Wall 2	322+50.00	86	44.10
			Wall 2	316+50.00	80	44.10
			Wall 2	315+50.00	79	43.30
			Wall 2	323+50.00	87	43.30
Receiver183	183	58.70	Wall 2	319+50.00	83	50.90
			Wall 2	320+50.00	84	50.00
			Wall 2	318+50.00	82	49.60
			Wall 2	322+50.00	86	48.50
			Wall 2	321+50.00	85	48.00
			Wall 2	317+50.00	81	47.70
			Wall 2	323+50.00	87	47.60
			Wall 2	316+50.00	80	46.80
			Wall 2	315+50.00	79	45.70
			Wall 2	314+50.00	78	43.70
Receiver189	189	57.70	Wall 2	315+50.00	79	47.70
			Wall 2	314+50.00	78	47.60

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			Wall 2	316+50.00	80	46.80
			Wall 2	313+50.00	77	46.60
			Wall 2	319+50.00	83	46.10
			Wall 2	318+50.00	82	45.80
			Wall 2	317+50.00	81	45.40
			Wall 2	312+50.00	76	45.20
			Wall 2	320+50.00	84	43.80
			Wall 2	311+50.00	75	43.80
Receiver191	191	58.20	Wall 2	312+50.00	76	47.30
			Wall 2	311+50.00	75	47.00
			Wall 2	313+50.00	77	46.70
			Wall 2	310+50.00	74	46.00
			Wall 2	314+50.00	78	45.50
			Wall 2	317+50.00	81	45.40
			Wall 2	315+50.00	79	45.20
			Wall 2	316+50.00	80	44.80
			Wall 2	309+50.00	73	44.70
			Wall 2	308+50.00	72	43.40
Receiver192	192	67.00	Wall 2	305+50.00	68	47.90
			Wall 2	306+50.00	70	47.40
			Wall 2	307+50.00	71	46.40
			Wall 2	308+50.00	72	45.10
			Wall 2	309+50.00	73	44.40
			Wall 2	312+50.00	76	43.70
			Wall 2	310+50.00	74	43.10
			Wall 2	313+50.00	77	42.50
			Wall 2	311+50.00	75	42.50
			Wall 2	314+50.00	78	39.90
Receiver284	252	57.20	Wall 2	333+50.00	97	45.60
			Wall 2	334+50.00	98	45.60
			Wall 2	335+50.00	99	45.30
			Wall 2	336+50.00	100	44.70
			Wall 2	332+50.00	96	44.60
			Wall 2	337+50.00	101	43.70
			Wall 2	330+50.00	94	43.60
			Wall 2	329+50.00	93	43.60

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			Wall 2	331+50.00	95	43.30
			Wall 2	338+50.00	102	42.50
Receiver285	253	58.80	Wall 2	333+50.00	97	50.70
			Wall 2	332+50.00	96	49.60
			Wall 2	334+50.00	98	48.90
			Wall 2	331+50.00	95	47.80
			Wall 2	330+50.00	94	47.50
			Wall 2	335+50.00	99	45.90
			Wall 2	329+50.00	93	45.00
			Wall 2	336+50.00	100	44.80
			Wall 2	337+50.00	101	44.20
			Wall 2	338+50.00	102	43.20