

**MINOR CHANGE APPLICATION**  
**HARRISON RADIO STATIONS, INC.**  
**KCWD RADIO STATION**  
**CH 241C2 - 96.1 MHZ - 50.0 KW (DA)**  
**HARRISON, ARKANSAS**  
**August 2007**

**EXHIBIT A**

The proposed KCWD antenna location will be shortspaced to one authorized facility, KITO-FM, Channel 241C2, Vinita, Oklahoma. The detailed spacing information is shown on Exhibit A1. HRS proposes to use the provisions of §73.215 of the Commission's rules to address this shortspaced situation. The shortage to this facility complies with §73.215(e) of the rules. Compliance with §73.215 is based on the use of a directional antenna system.

Exhibit A2 specifically demonstrates that there will be no prohibited overlap between the proposed KCWD and the authorized KITO-FM. The contours of KITO-FM are based on its licensed facilities, as KITO-FM is licensed as maximum Class C2 facility at 50.0 kilowatts at 150 meters HAAT. Attached as Exhibits A3 through A4 are the tabulated distances to the protected and interfering contours, along the pertinent arcs, of the proposed KCWD and the authorized KITO-FM. Further, attached as Exhibit A5 are the tabulated and protected contours of the proposed facility in ten degree increments. Again, there is no prohibited overlap between the facilities.

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**EXHIBIT A1**

Clearance study for KCWD Harrison, Arkansas  
Using proposed site as reference

REFERENCE	CLASS = C2	DISPLAY DATES
36 14 49.0 N.		DATA 08-18-07
93 05 07.0 W.	Current Spacings	SEARCH 08-20-07
----- Channel 241 - 96.1 MHz -----		

Call	Channel	Location	Azi	Dist	FCC	Margin
Lat.	Lng.	Ant	Power	HAAT		
KCWD	LIC-N 241C2	Harrison	AR 162.8	15.75	190.0	-174.25
	36 06 41.0	93 02 00.0 NCN	8.000 kW	363 M		
	Harrison Radio Stations, Inc. BLH-19910116KA					
* KITO-FM	LIC 241C2	Vinita	OK 282.7	178.03	190.0	-11.97
	36 34 56.0	95 01 35.0 CN	50.000 kW	150 M		
	Mid America AG Network, Inc. BLH-19890508KD					
KKBL	LIC-N 240A	Monett	MO 315.9	107.32	106.0	1.32
	36 56 15.0	93 55 30.0 NCN	6.000 kW	82 M		
	Eagle Broadcasting, Inc. BLH-19901026KE					
KTRI-FM	LIC-Z 240C3	Mansfield	MO 19.8	122.71	117.0	5.71
	37 17 10.0	92 36 55.0 ZC	8.900 kW	165 M		
	Thirteen Forty Productions BLH-20070509ACG					
KLRQ	LIC 241C0	Clinton	MO 351.6	249.99	239.0	10.99
	38 28 27.0	93 30 28.0 CN	100.000 kW	301 M		
	Educational Media Foundation BMLED-20030926AQB					
KSPW	LIC 243C2	Sparta	MO 347.0	80.60	58.0	22.60
	36 57 16.0	93 17 22.0 CN	50.000 kW	150 M		
	Journal Broadcast Corporation BLH-19930208KE					
KTTG	LIC 242C1	Mena	AR 204.4	189.47	158.0	31.47
	34 41 24.0	93 56 35.0 CN	47.000 kW	401 M		
	Pearson Broadcasting of Mena BLH-19941216KA					
KKBD	LIC 240C2	Sallisaw	OK 237.6	172.37	130.0	42.37
	35 24 26.0	94 41 25.0 CN	30.000 kW	190 M		
	Capstar TX Limited Partnership BLH-19930326KB					
KSEC	LIC 239A	Bentonville	AR 273.7	97.85	55.0	42.85
	36 17 54.0	94 10 21.0 C	6.000 kW	100 M		
	La Zeta 95.7 Inc. BLH-20020131AAE					
KTOZ-FM	LIC-N 238C2	Pleasant Hope	MO 352.7	109.27	58.0	51.27
	37 13 25.0	93 14 30.0 NCN	44.000 kW	159 M		
	Clear Channel Broadcasting BLH-19980311KF					
KDYN-FM	LIC-N 244C3	Ozark	AR 220.9	111.50	56.0	55.50
	35 29 09.1	93 53 29.5 NCX	10.000 kW	148 M		
	Ozark Communications, Inc. BLH-20070404AAG					

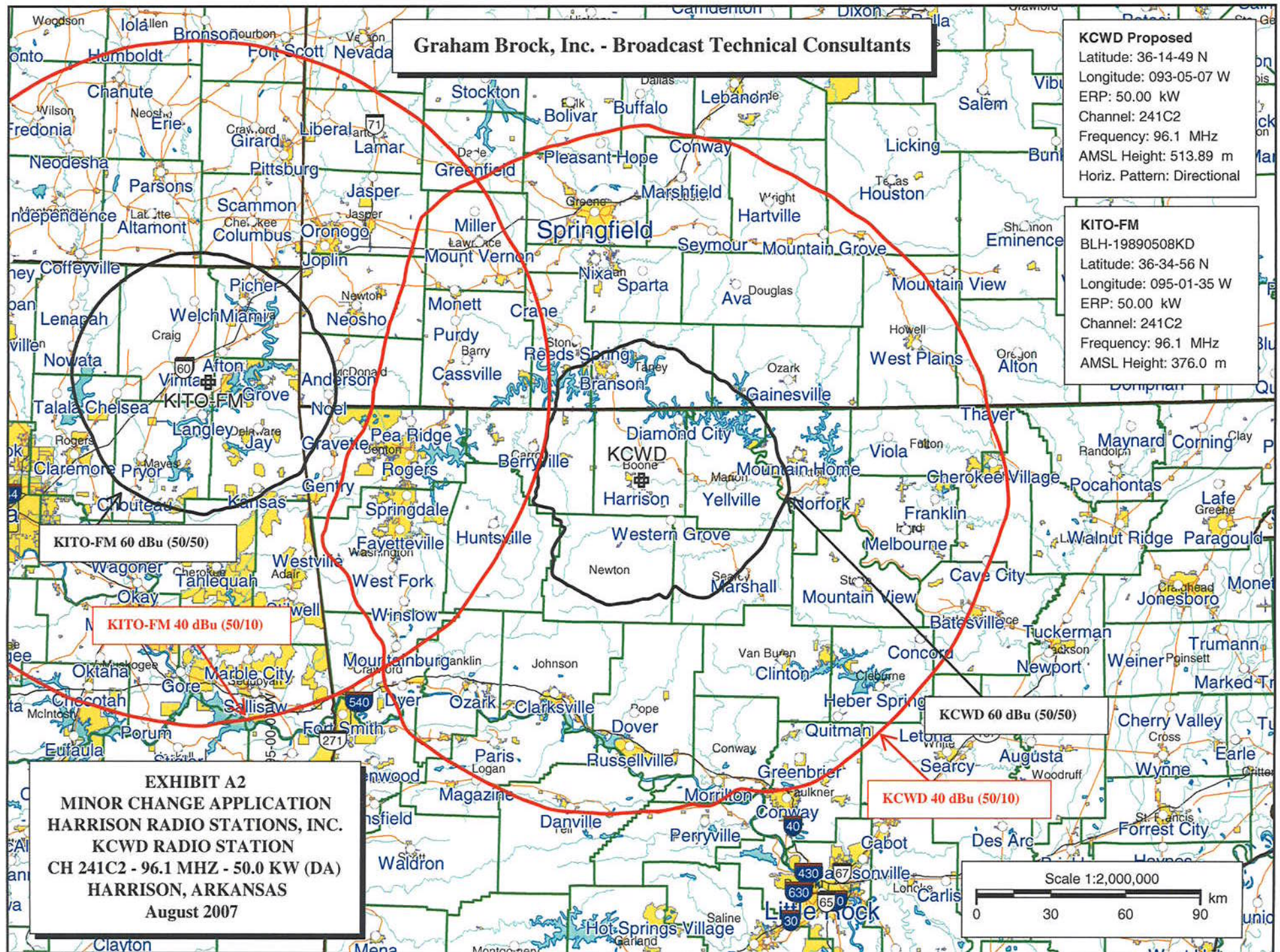
\* Note: This shortage is addressed under §73.215 of the rules, see Exhibit A.



**Graham Brock, Inc. - Broadcast Technical Consultants**

**KCWD Proposed**  
Latitude: 36-14-49 N  
Longitude: 093-05-07 W  
ERP: 50.00 kW  
Channel: 241C2  
Frequency: 96.1 MHz  
AMS Height: 513.89 m  
Horiz. Pattern: Directional

**KITO-FM**  
BLH-19890508KD  
Latitude: 36-34-56 N  
Longitude: 095-01-35 W  
ERP: 50.00 kW  
Channel: 241C2  
Frequency: 96.1 MHz  
AMS Height: 376.0 m





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**August 2007**

**EXHIBIT A3**

KCWD - Proposed  
Channel = 241C2  
Max ERP = 50 kW  
RCAMSL = 513.89 M  
N. Lat = 36 14 49  
W. Lng = 93 05 07

KITO-FM - BLH-19890508KD  
Channel = 241C2  
Max ERP = 50 kW  
RCAMSL = 376 M  
N. Lat = 36 34 56  
W. Lng = 95 01 35

Protected  
60 dBu

Interfering  
40 dBu

**30 Second terrain database**

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
270.0	032.0000	0101.1	041.2	105.3	050.0000	0139.3	138.0	39.7
271.0	031.0472	0103.0	041.3	105.0	050.0000	0139.3	137.7	39.7
272.0	030.1088	0105.9	041.5	104.7	050.0000	0139.3	137.3	39.8
273.0	029.1848	0108.3	041.7	104.4	050.0000	0140.2	137.0	39.9
274.0	028.2752	0110.8	041.8	104.1	050.0000	0140.2	136.8	39.9
275.0	027.3800	0112.9	041.8	103.8	050.0000	0140.2	136.6	40.0
276.0	026.4992	0112.9	041.5	103.5	050.0000	0140.2	136.8	39.9
277.0	025.6328	0111.7	041.1	103.2	050.0000	0141.2	137.1	39.9
278.0	024.7808	0110.8	040.7	102.9	050.0000	0141.2	137.4	39.8
279.0	023.9432	0109.4	040.2	102.6	050.0000	0141.2	137.8	39.7
280.0	023.1200	0108.1	039.7	102.3	050.0000	0142.1	138.3	39.7
281.0	022.8488	0107.2	039.5	102.0	050.0000	0142.1	138.5	39.6
282.0	022.5792	0106.7	039.3	101.7	050.0000	0142.1	138.6	39.6
283.0	022.3112	0106.6	039.2	101.4	050.0000	0143.0	138.7	39.6
284.0	022.0448	0107.0	039.2	101.1	050.0000	0143.0	138.8	39.6
285.0	021.7800	0108.3	039.3	100.8	050.0000	0143.0	138.7	39.6
286.0	021.5168	0111.3	039.6	100.5	050.0000	0143.0	138.4	39.7
287.0	021.2552	0115.6	040.1	100.2	050.0000	0144.3	138.0	39.8
288.0	020.9952	0120.0	040.6	099.9	050.0000	0144.3	137.6	39.9
289.0	020.7368	0123.6	041.0	099.6	050.0000	0144.3	137.3	39.9
290.0	020.4800	0125.1	041.0	099.3	050.0000	0145.1	137.4	39.9
291.0	020.7368	0125.1	041.1	099.0	050.0000	0145.1	137.4	39.9
292.0	020.9952	0124.7	041.2	098.7	050.0000	0145.1	137.5	39.9
293.0	021.2552	0124.3	041.2	098.4	050.0000	0145.7	137.6	39.9
294.0	021.5168	0124.8	041.4	098.1	050.0000	0145.7	137.6	39.9
295.0	021.7800	0125.7	041.6	097.8	050.0000	0145.7	137.6	39.9
296.0	022.0448	0127.2	041.9	097.5	050.0000	0145.9	137.5	39.9
297.0	022.3112	0129.1	042.3	097.1	050.0000	0145.9	137.4	39.9
298.0	022.5792	0131.1	042.6	096.8	050.0000	0145.9	137.4	40.0
299.0	022.8488	0132.8	042.9	096.4	050.0000	0145.4	137.3	40.0
300.0	023.1200	0133.6	043.1	096.1	050.0000	0145.4	137.4	39.9
301.0	023.9432	0133.1	043.4	095.8	050.0000	0145.4	137.5	39.9
302.0	024.7808	0131.6	043.5	095.5	050.0000	0144.9	137.7	39.9
303.0	025.6328	0129.5	043.5	095.2	050.0000	0144.9	138.1	39.8
304.0	026.4992	0127.5	043.5	094.9	050.0000	0144.9	138.4	39.7
305.0	027.3800	0126.3	043.6	094.6	050.0000	0144.9	138.7	39.7
306.0	028.2752	0125.9	043.8	094.3	050.0000	0144.6	138.9	39.6
307.0	029.1848	0125.7	044.1	094.0	050.0000	0144.6	139.1	39.6

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**EXHIBIT A4**

KITO-FM - BLH-19890508KD  
Channel = 241C2  
Max ERP = 50 kW  
RCAMSL = 376 M  
N. Lat = 36 34 56  
W. Lng = 95 01 35

KCWD - Proposed  
Channel = 241C2  
Max ERP = 50 kW  
RCAMSL = 513.89 M  
N. Lat = 36 14 49  
W. Lng = 93 05 07

Protected  
60 dBu

Interfering  
40 dBu

**30 Second terrain database**

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
090.0	050.0000	0143.0	051.3	287.3	021.1707	0115.6	128.4	37.2
091.0	050.0000	0143.5	051.3	286.9	021.2694	0115.6	128.1	37.2
092.0	050.0000	0143.9	051.4	286.6	021.3697	0115.6	127.8	37.3
093.0	050.0000	0144.4	051.4	286.2	021.4713	0111.3	127.5	37.2
094.0	050.0000	0144.6	051.5	285.8	021.5748	0111.3	127.3	37.3
095.0	050.0000	0144.9	051.5	285.4	021.6793	0108.3	127.1	37.3
096.0	050.0000	0145.4	051.6	285.0	021.7842	0108.3	126.9	37.3
097.0	050.0000	0145.9	051.6	284.6	021.8903	0108.3	126.7	37.4
098.0	050.0000	0145.7	051.6	284.2	021.9986	0107.0	126.7	37.4
099.0	050.0000	0145.1	051.5	283.8	022.1077	0107.0	126.7	37.4
100.0	050.0000	0144.3	051.4	283.4	022.2169	0106.6	126.7	37.4
101.0	050.0000	0143.0	051.3	282.9	022.3261	0106.6	126.9	37.4
102.0	050.0000	0142.1	051.1	282.5	022.4346	0106.6	127.0	37.4
103.0	050.0000	0141.2	051.0	282.1	022.5426	0106.7	127.1	37.4
104.0	050.0000	0140.2	050.9	281.7	022.6499	0106.7	127.3	37.4
105.0	050.0000	0139.3	050.7	281.3	022.7566	0107.2	127.5	37.4
106.0	050.0000	0138.5	050.6	280.9	022.8626	0107.2	127.7	37.4
107.0	050.0000	0137.8	050.5	280.6	022.9682	0107.2	127.9	37.3
108.0	050.0000	0137.4	050.5	280.2	023.0736	0108.1	128.1	37.4
109.0	050.0000	0136.4	050.3	279.8	023.2911	0108.1	128.4	37.3
110.0	050.0000	0135.7	050.2	279.4	023.6008	0109.4	128.6	37.4
111.0	050.0000	0135.1	050.1	279.0	023.9109	0109.4	128.9	37.4
112.0	050.0000	0134.5	050.1	278.7	024.2195	0109.4	129.2	37.4
113.0	050.0000	0133.9	050.0	278.3	024.5251	0110.8	129.5	37.4
114.0	050.0000	0132.6	049.8	278.0	024.8188	0110.8	129.9	37.4
115.0	050.0000	0131.3	049.6	277.6	025.1087	0110.8	130.4	37.4
116.0	050.0000	0130.6	049.5	277.3	025.4033	0111.7	130.8	37.4
117.0	050.0000	0130.4	049.5	276.9	025.7051	0111.7	131.1	37.4
118.0	050.0000	0131.0	049.6	276.5	026.0221	0111.7	131.3	37.4
119.0	050.0000	0132.2	049.7	276.2	026.3496	0112.9	131.5	37.4
120.0	050.0000	0133.1	049.9	275.8	026.6737	0112.9	131.7	37.4
121.0	050.0000	0133.6	049.9	275.4	026.9857	0112.9	132.1	37.4
122.0	050.0000	0133.5	049.9	275.1	027.2819	0112.9	132.5	37.4
123.0	050.0000	0133.1	049.9	274.8	027.5648	0112.9	132.9	37.3
124.0	050.0000	0132.7	049.8	274.5	027.8450	0110.8	133.4	37.2
125.0	050.0000	0132.9	049.8	274.2	028.1398	0110.8	133.8	37.2
126.0	050.0000	0134.1	050.0	273.8	028.4598	0110.8	134.2	37.2



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**EXHIBIT A5**

Predicted contour:

N. Lat. = 36 14 49 - Tabulated Protected and Interfering Contour Data  
W. Lng. = 93 05 07 - KCWD Radio Station - Harrison, Arkansas

HAAT and Distance to Contour - FCC Method - NGDC 30 Second terrain database

Azi.	HAAT	ERP kW	dBk	Field	60-F5	40-F1	54-F1	100-F1
000	183.8	50.0000	16.99	1.000	55.94	142.23	82.77	6.57
010	161.7	50.0000	16.99	1.000	53.66	139.29	79.79	6.19
020	147.7	50.0000	16.99	1.000	51.89	137.40	77.77	5.92
030	135.9	50.0000	16.99	1.000	50.26	135.79	75.94	5.68
040	144.1	50.0000	16.99	1.000	51.40	136.91	77.22	5.85
050	153.7	50.0000	16.99	1.000	52.68	138.22	78.66	6.04
060	167.7	50.0000	16.99	1.000	54.35	140.10	80.63	6.30
070	177.1	50.0000	16.99	1.000	55.32	141.35	81.89	6.46
080	180.7	50.0000	16.99	1.000	55.67	141.83	82.37	6.52
090	217.5	50.0000	16.99	1.000	58.88	146.54	86.92	7.12
100	203.7	50.0000	16.99	1.000	57.68	144.79	85.26	6.89
110	183.9	50.0000	16.99	1.000	55.94	142.24	82.77	6.57
120	177.5	50.0000	16.99	1.000	55.36	141.40	81.94	6.47
130	163.9	50.0000	16.99	1.000	53.93	139.60	80.11	6.23
140	165.5	50.0000	16.99	1.000	54.11	139.81	80.33	6.26
150	168.9	50.0000	16.99	1.000	54.48	140.26	80.79	6.32
160	118.4	50.0000	16.99	1.000	47.74	133.38	73.07	5.34
170	116.8	50.0000	16.99	1.000	47.51	133.16	72.80	5.30
180	121.6	50.0000	16.99	1.000	48.21	133.82	73.61	5.40
190	138.7	50.0000	16.99	1.000	50.65	136.17	76.38	5.74
200	147.3	50.0000	16.99	1.000	51.83	137.34	77.70	5.91
210	143.0	50.0000	16.99	1.000	51.25	136.76	77.05	5.83
220	149.4	50.0000	16.99	1.000	52.11	137.63	78.02	5.95
230	110.2	50.0000	16.99	1.000	46.47	132.19	71.65	5.15
240	61.3	50.0000	16.99	1.000	36.81	123.25	60.81	3.84
250	62.9	50.0000	16.99	1.000	37.19	123.59	61.26	3.88
260	94.4	50.0000	16.99	1.000	43.76	129.65	68.67	4.75
270	101.1	32.0000	15.05	0.800	41.25	119.94	63.58	4.37
280	108.1	23.1200	13.64	0.680	39.73	113.20	60.66	4.14
290	125.1	20.4800	13.11	0.640	41.04	113.26	61.95	4.27
300	133.6	23.1200	13.64	0.680	43.14	117.57	64.90	4.55
310	126.0	32.0000	15.05	0.800	44.89	124.19	68.05	4.86
320	147.7	50.0000	16.99	1.000	51.90	137.41	77.77	5.92
330	149.5	50.0000	16.99	1.000	52.13	137.65	78.04	5.95
340	150.6	50.0000	16.99	1.000	52.27	137.79	78.19	5.97
350	162.4	50.0000	16.99	1.000	53.76	139.40	79.90	6.20

AMSL= 513.89 M