STATE OF CONNECTICUT
CONNECTICUT SITING COUNCIL

IN RE:
APPLICATION OF MESSAGE CENTER MANAGEMENT, INC. (MCM) AND NEW CINGULAR WIRELESS (AT&T) FOR A CERTIFICATE OF ENVIRONMENTAL COMPATIBILITY AND PUBLIC NEED FOR THE CONSTRUCTION, MAINTENANCE AND OPERATION OF A TELECOMMUNICATIONS TOWER FACILITY IN REDDING, CONNECTICUT

DOCKET NO. 449

August 29, 2014

RESPONSES OF MESSAGE CENTER MANAGEMENT
AND NEW CINGULAR WIRELESS
TO CONNECTICUT SITING COUNCIL PRE-HEARING QUESTIONS, SET III

Q56. Provide propagation maps showing existing plus proposed coverage at antenna centerline heights of 130 feet and 120 feet for 700 MHz, 850 MHz, and 1900 MHz or as applicable.

A56. Please see Attachment 1.

Q57. Provide propagation maps showing existing plus proposed coverage at antenna centerline heights of 150 feet and 120 feet depicting coverage to Putnam Memorial State Park and Huntington State Park for 700 MHz, 850 MHz, and 1900 MHz or as applicable.

A57. Please see Attachment 1 for propagation maps at 120 feet. Please see Attachment 2 for propagation maps at 150 feet. In addition, propagation maps of a facility at 120 feet and a facility at 150 feet at 850 MHz are included as Attachment 3 in a different scale in order to show both Putnam Memorial and Collis P. Huntington State Parks in their entirety. Please note that coverage to Putnam Memorial State Park is provided by AT&T's existing site CT5515 which lies to the west of that park. A comparison of plots from 120' to 150' indicates that AT&T's coverage would benefit from the higher height of 150'. One example is the gap along Cross Highway which, due to topography of the Little River, will exist at either height. However, at 120' it is unlikely AT&T's customers will be able to maintain calls through this gap. At 150' however, more customers will be able to maintain a call through this area as the gap will be shorter in length (duration) and the overall signal in the gap will be stronger allowing for more calls or data connections to be maintained. Customers in the northerly areas of Collis P. Huntington State Park will have a similar experience: while the quality of connection will not necessarily meet AT&T's network standards, the signal levels will not be as weak at 150' thus reducing failed call and data connections as compared to a facility at 120'.

Q58. Provide the lengths of the coverage that AT&T would provide along primary roads from the proposed site for 700 MHz, 850 MHz, and 1900 MHz or as applicable, assuming antenna centerline heights of 130 feet and 120 feet.

A58.

	Incremental 700 MHz LTE Coverage @ 130 feet		**Incremental 850 MHz UMTS Coverage @ 130 feet**		**Incremental 1900 MHz LTE Coverage @ 130 feet**	
Area (mi^2):	(≥ -83 dBm)	1.01	(≥ -74 dBm)	5.51	(≥ -86 dBm)	0.39
	(≥ -93 dBm)	3.05	(≥ -82 dBm)	7.84	(≥ -96 dBm)	2.04
Roadway (mi):	Main:	2.51	Main:	3.03	Main:	2.07
	Secondary:	6.03	Secondary:	19.07	Secondary:	5.01
	Total:	8.54	**Total:**	22.10	**Total:**	7.08

	Incremental 700 MHz LTE Coverage @ 120 feet		**Incremental 850 MHz UMTS Coverage @ 120 feet**		**Incremental 1900 MHz LTE Coverage @ 120 feet**	
Area (mi^2):	(≥ -83 dBm)	0.93	(≥ -74 dBm)	5.32	(≥ -86 dBm)	0.31
	(≥ -93 dBm)	2.89	(≥ -82 dBm)	7.51	(≥ -96 dBm)	1.99
Roadway (mi):	Main:	2.13	Main:	2.83	Main:	1.95
	Secondary:	5.72	Secondary:	17.96	Secondary:	4.69
	Total:	7.85	**Total:**	20.79	**Total:**	6.64

Q59. Provide the lengths of the coverage that AT&T would provide along secondary roads from the proposed site for 700 MHz, 850 MHz, and 1900 MHz or as applicable, assuming antenna centerline heights of 130 feet and 120 feet.

A59. Please see above.

Q60. Provide the predicted coverage areas from the proposed site (in square miles) for AT&T assuming antenna centerline heights of 130 feet and 120 feet for 700 MHz, 850 MHz, and 1900 MHz or as applicable.

A60. Please see above.

CERTIFICATE OF SERVICE

I hereby certify that on this day, an original and fifteen copies of the foregoing were sent electronically and by overnight delivery to the Connecticut Siting Council with copy to:

Kenneth C. Baldwin, Esq.
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Hartford, CT 06103-3597
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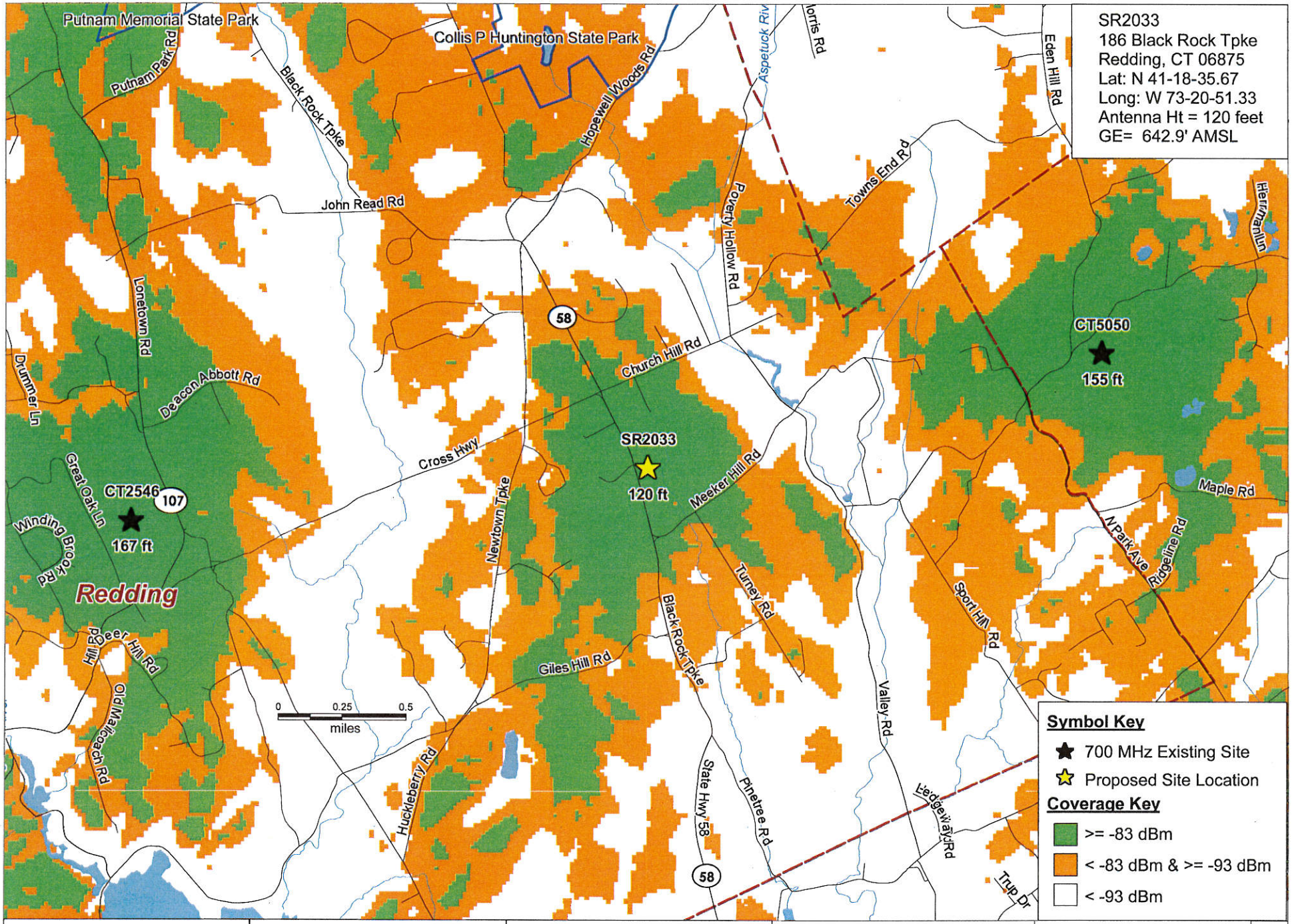
kbaldwin@rc.com

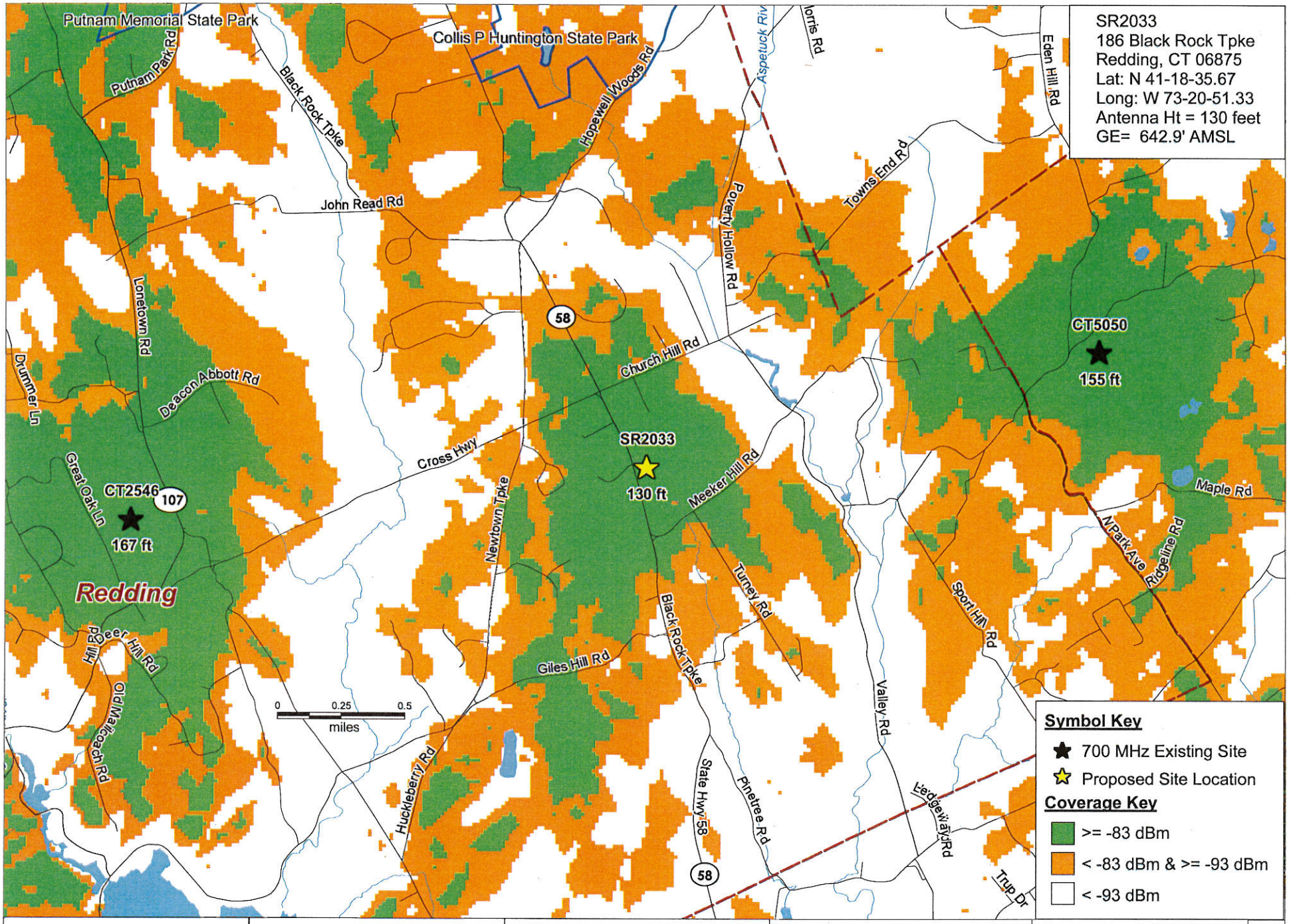
Dated: August 29, 2014

Daniel M. Laub

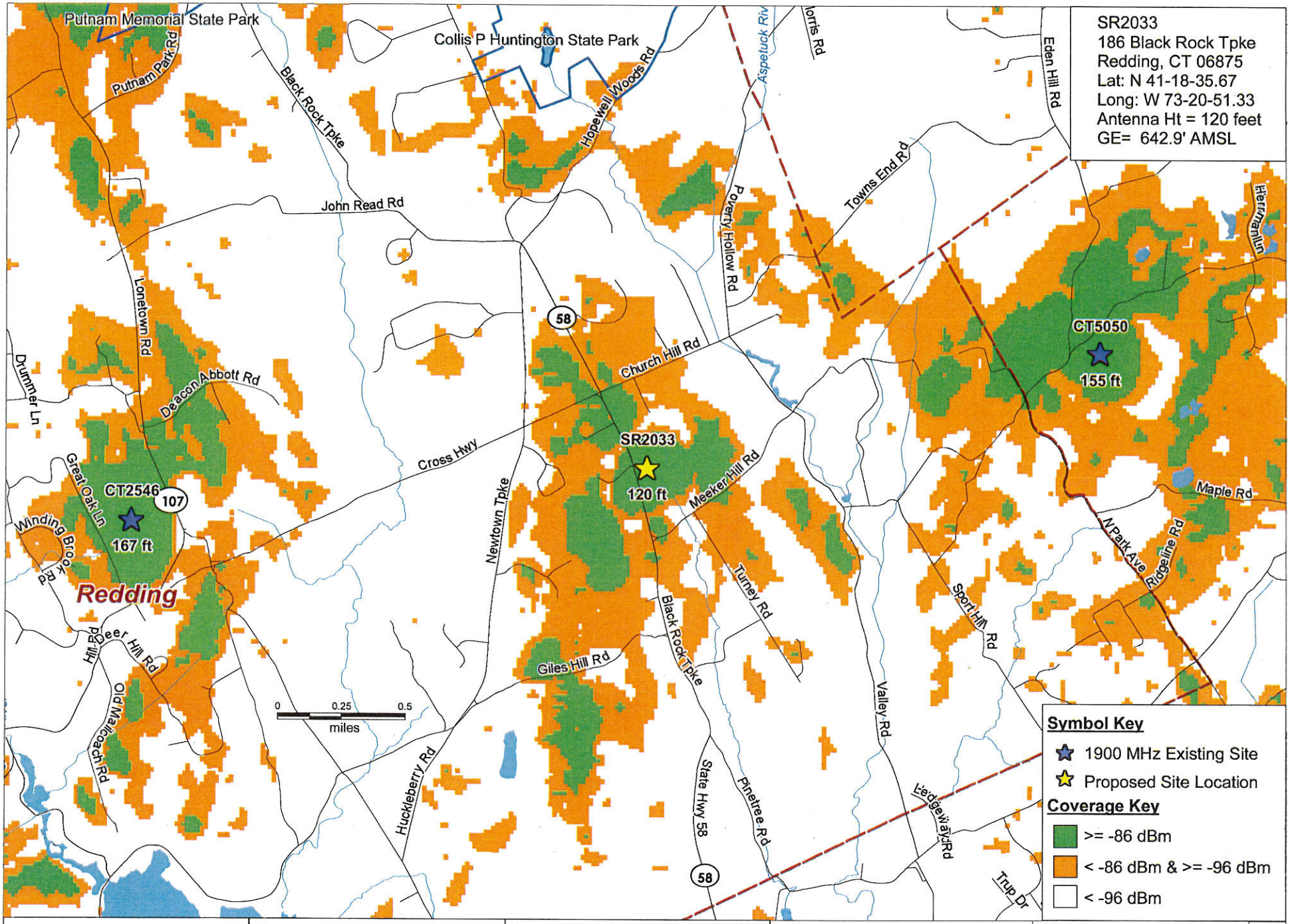
ATTACHMENT 1



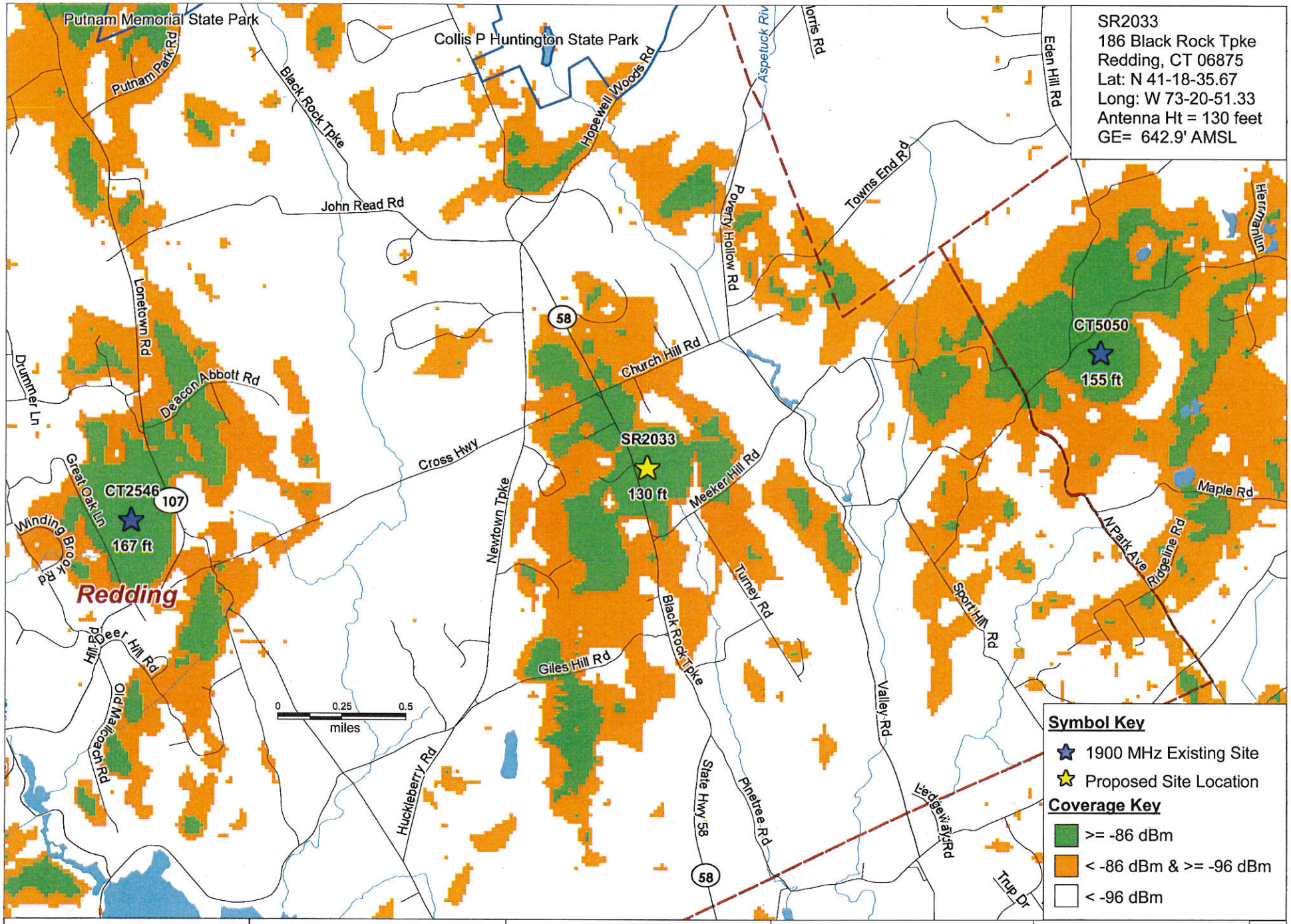
Existing & Proposed @ 120 700 MHz LTE Coverage	SR2033 Redding, CT	186 Black Rock Tpke. Redding, CT	at&t	PREPARED ON DATE: 08/19/2014 REV 0



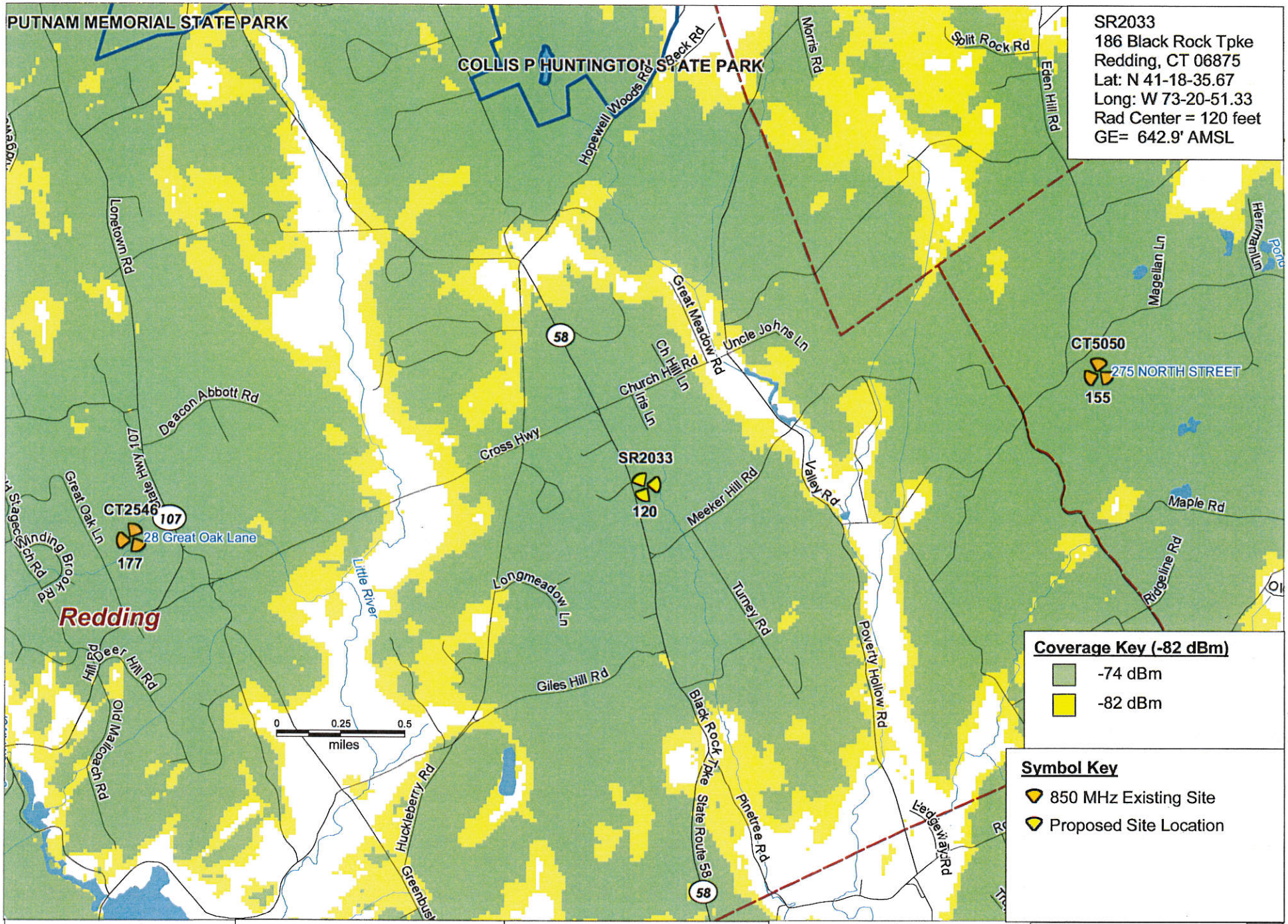
Existing & Proposed @ 130 700 MHz LTE Coverage	SR2033 Redding, CT	186 Black Rock Tpke. Redding, CT	at&t	PREPARED ON DATE: 08/19/2014 REV 0



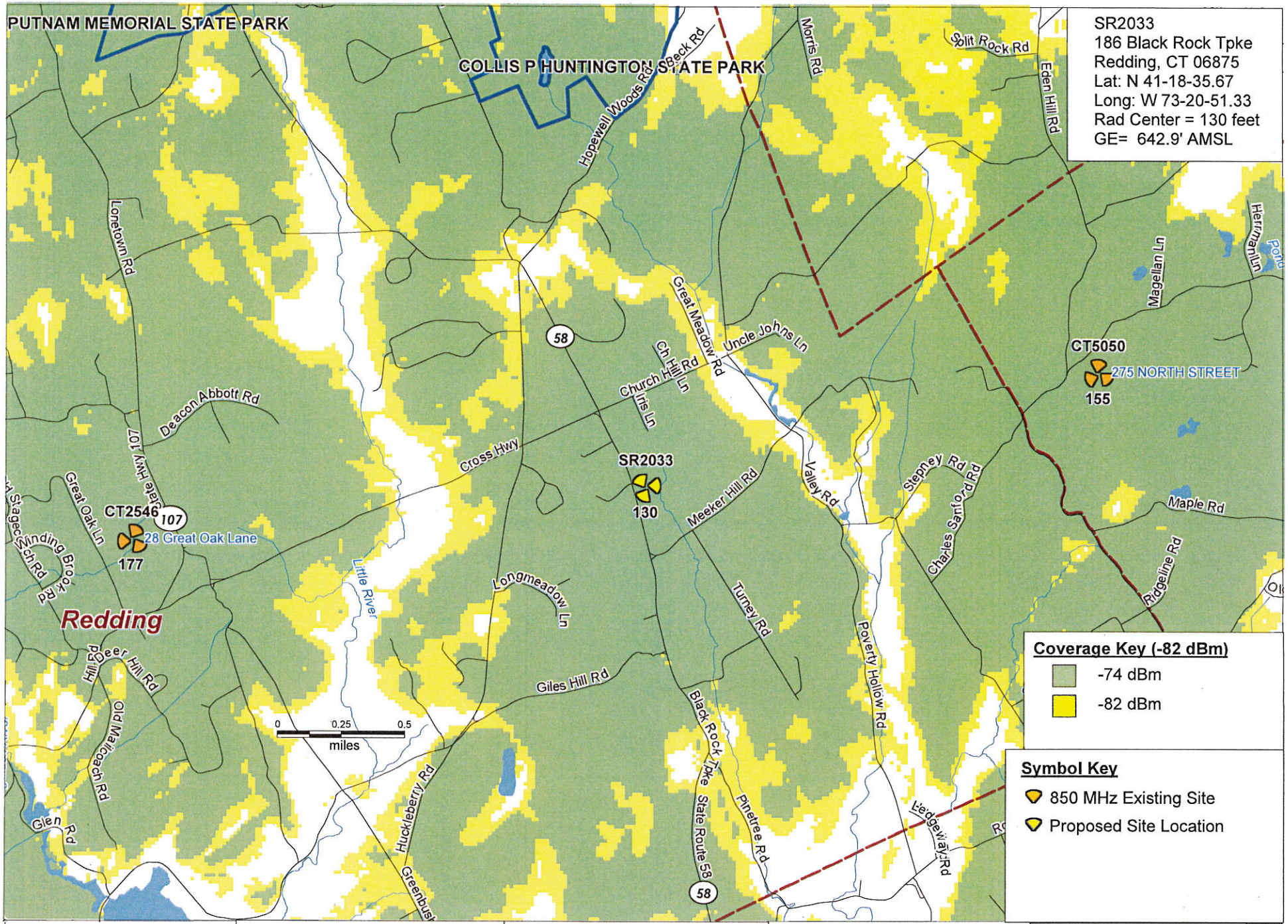
Existing & Proposed @ 120 1900 MHz LTE Coverage	SR2033 Redding, CT	186 Black Rock Tpke. Redding, CT	at&t	PREPARED ON DATE: 08/19/2014 REV 0



Existing & Proposed @ 130 1900 MHz LTE Coverage	SR2033 Redding, CT	186 Black Rock Tpke. Redding, CT	at&t	PREPARED ON DATE: 08/19/2014 REV 0

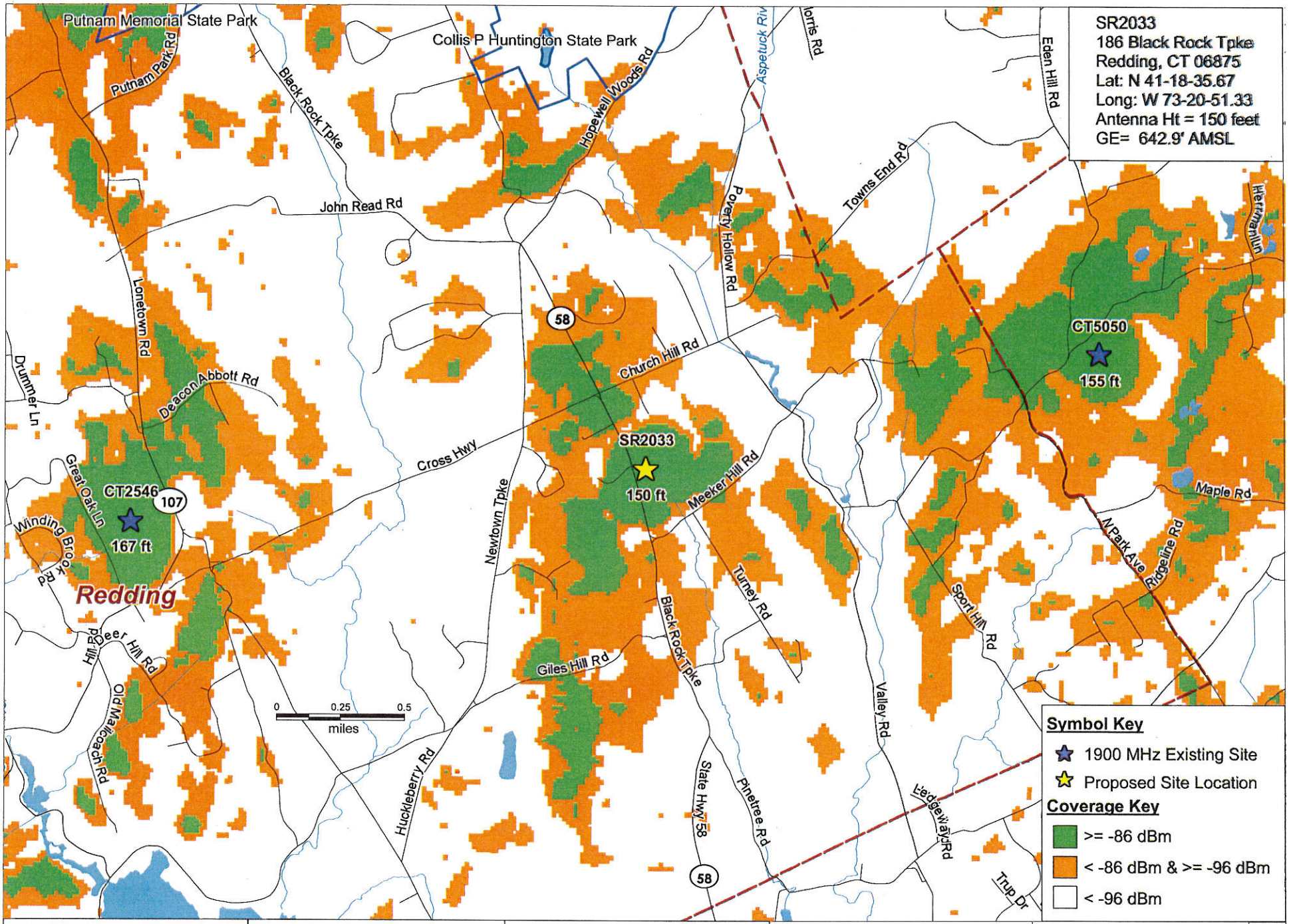


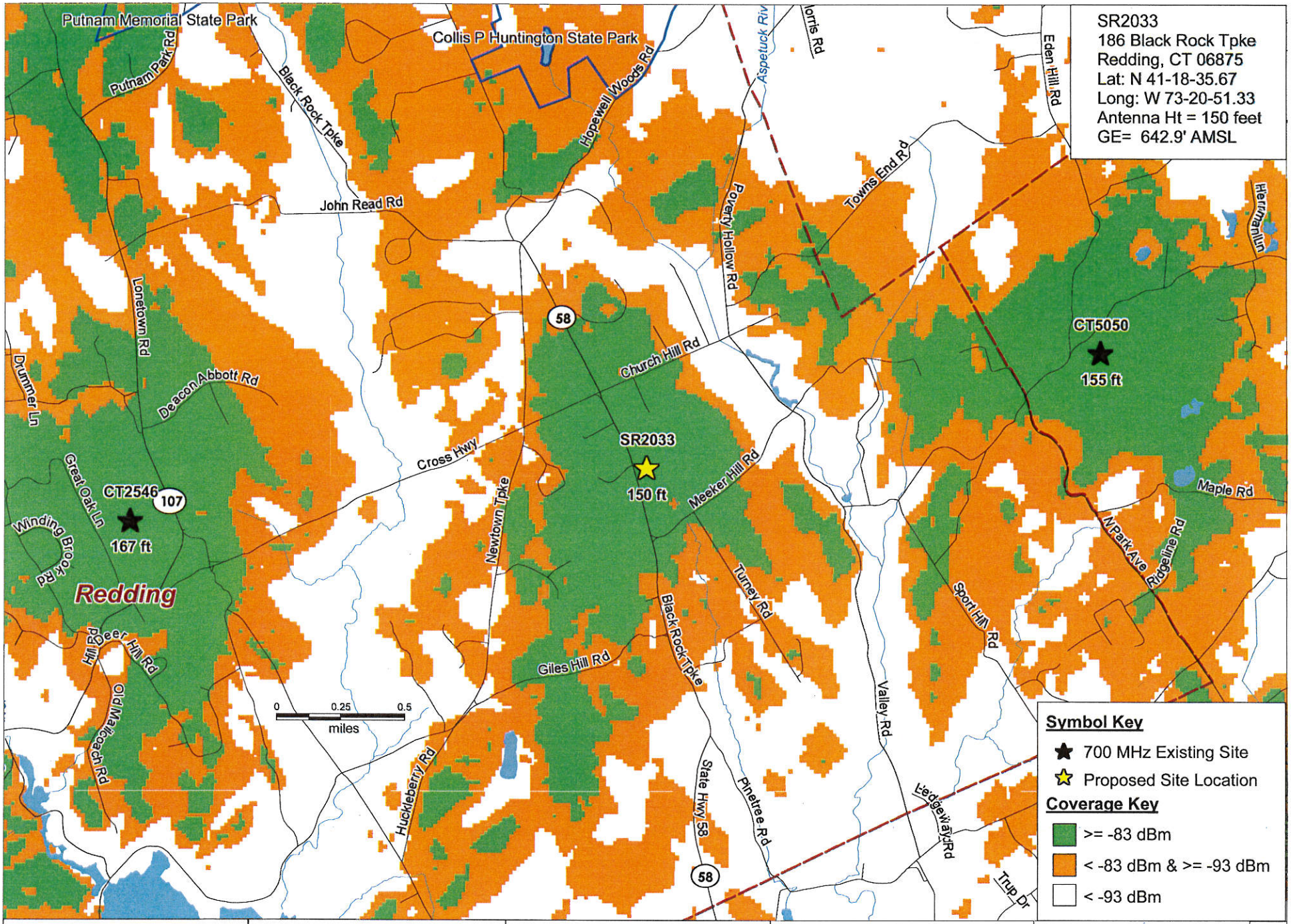
Existing and Proposed Coverage at 120 feet	SR2033 Redding, CT	186 Black Rock Tpke. Redding CT	at&t	PREPARED ON DATE: 06/25/2014 REV 0



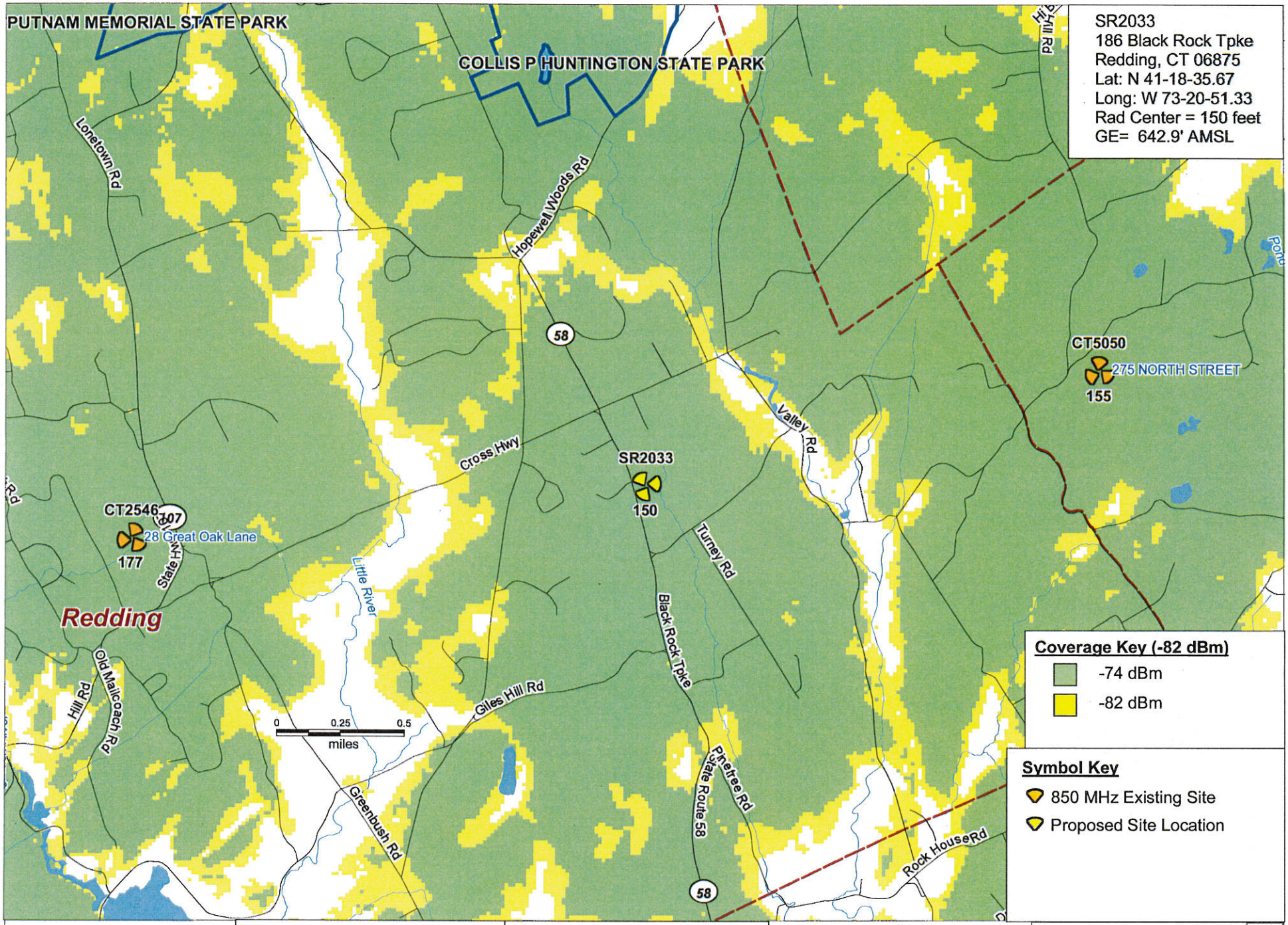
Existing and Proposed Coverage at 130 feet	SR2033 Redding, CT	186 Black Rock Tpke. Redding CT	at&t	PREPARED ON DATE: 06/25/2014 REV 0

ATTACHMENT 2


SR2033
186 Black Rock Tpke
Redding, CT 06875
Lat: N 41-18-35.67
Long: W 73-20-51.33
Antenna Ht = 150 feet
GE= 642.9' AMSL
Putnam Memorial State Park
Collis P Huntington State Park
Putnam Park Rd
Black Rock Tpke
Hopewell Woods Rd
Aspetuck River
Morris Rd
Eden Hill Rd
John Read Rd
Towns End Rd
Poverty Hollow Rd
Lonetown Rd
Drummer Ln
Deacon Abbott Rd
Church Hill Rd
58
CT5050
155 ft
SR2033
150 ft
Cross Hwy
Meeker Hill Rd
Maple Rd
CT2546
107
167 ft
Great Oak Ln
Winding Brook Rd
Redding
Newtown Tpke
Turney Rd
Sport Hill Rd
N Park Ave
Ridgeline Rd
Deer Hill Rd
Old Mac Beach Rd
Giles Hill Rd
Black Rock Tpke
Valley Rd
Huckleberry Rd
State Hwy 58
Pinetree Rd
Ledgeway Rd
Trup Dr
0 0.25 0.5
miles
Symbol Key
1900 MHz Existing Site
Proposed Site Location
Coverage Key
>= -86 dBm
< -86 dBm & >= -96 dBm
< -96 dBm
Existing & Proposed
1900 MHz LTE Coverage
SR2033
Redding, CT
186 Black Rock Tpke.
Redding, CT
at&t
PREPARED ON
DATE: 08/19/2014
REV

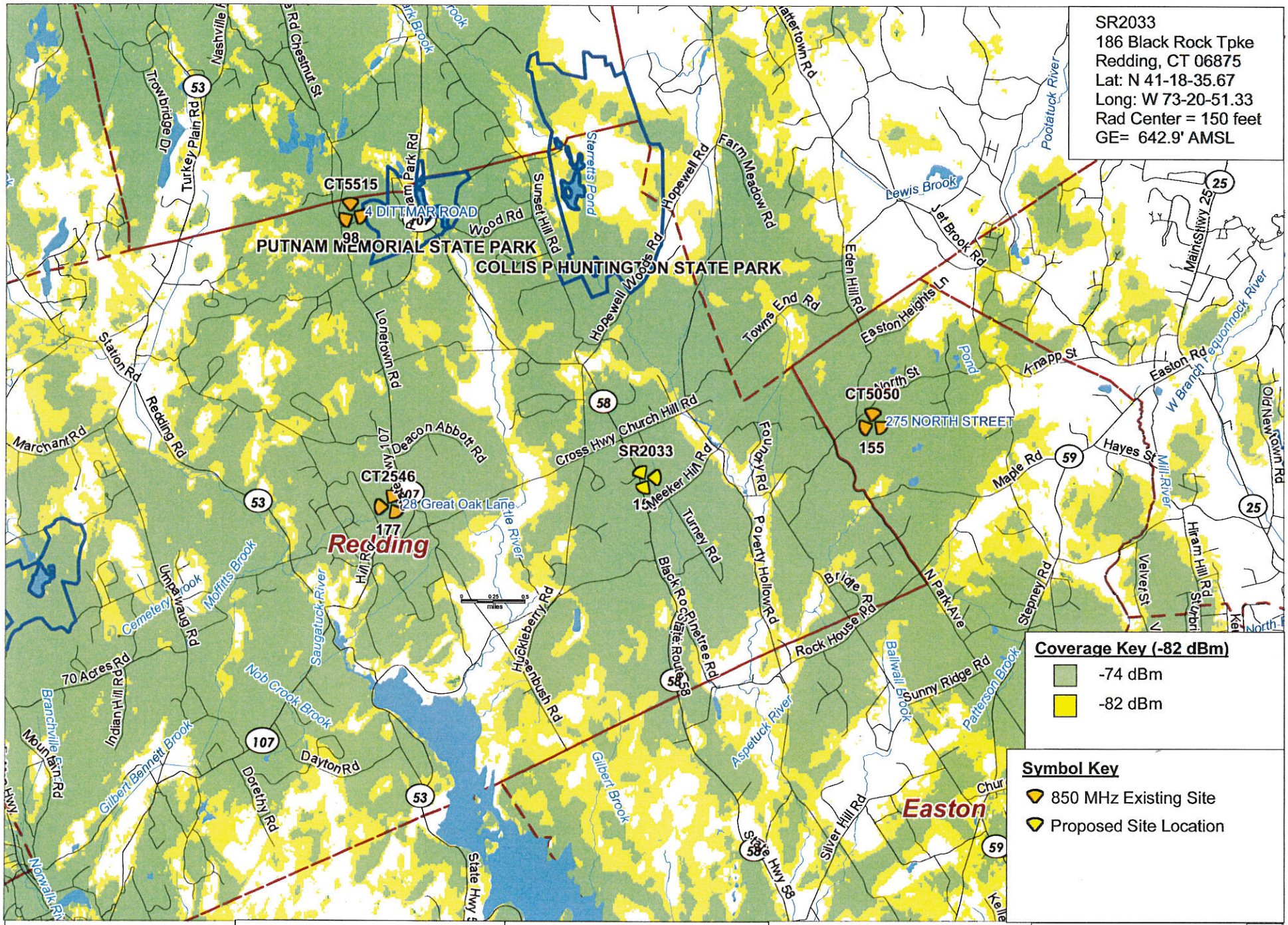


Existing & Proposed 700 MHz LTE Coverage	SR2033 Redding, CT	186 Black Rock Tpke. Redding, CT	at&t	PREPARED ON DATE: 08/19/2014 REV 0

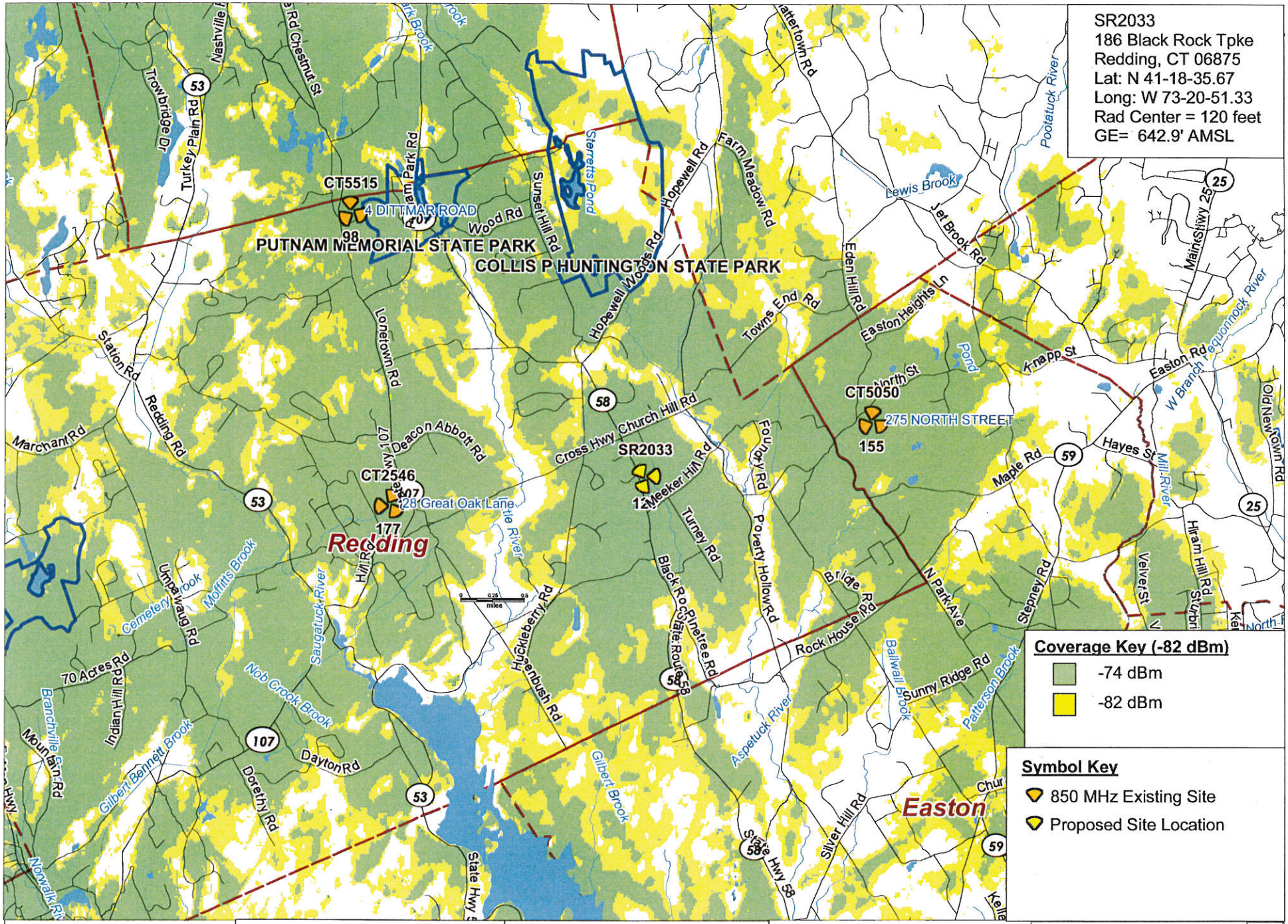


Existing and Proposed Coverage at 150 feet	SR2033 Redding, CT	186 Black Rock Tpke. Redding CT	at&t	PREPARED ON DATE: 06/25/2014 REV 0

ATTACHMENT 3



Existing and Proposed Coverage at 150 feet	SR2033 Redding, CT	186 Black Rock Tpke. Redding CT	at&t	PREPARED ON DATE: 06/25/2014 REV 0



Existing and Proposed Coverage at 120 feet	SR2033 Redding, CT	186 Black Rock Tpke. Redding CT	PREPARED ON DATE: 06/25/2014 REV 0