

February 6, 2015

Maine Land Use Planning Commission c/o Karen Bolstridge, Regional Representative 106 Hogan Rd, Suite 7 BMHI Complex Bangor, Maine 04401

Re: Maine RSA #4, Inc. d/b/a U.S. Cellular Corporation (USCC) - Telecommunication Facility

Dear Land Use Planning Commission:

The revised Application information is provided to address the proposed reduction of tower height for the telecommunications facility on the property owned by Christopher Cochran and located off of West Street in the Big Lake Township, Washington County, identified as Lot 25 on Map 04. USCC has performed improved Radio Frequency (RF) propagation studies on the proposed Big Lake Township area and have determined that a tower height of 190' instead of the originally proposed 250' tower height is sufficient to provide RF coverage in the area that meets the USCC coverage needs and the FCC Auction 901 coverage requirements which USCC desires to meet.

As such, the replacement pages provided to the original Application reflect the changes to the Application to address this change in tower height. In addition, the Site Plan engineering drawings have been revised to address the change in tower height. Drawing USCC-119_ARC-1A-2 has additional been revised to include the installation of the Remote Radio Units (RRUs) and a Raycap SPD to the tower. The installation of these devices provides for improved RF propagation from the antennas by reducing the signal losses from the previous COAX cables for LTE transmission and reduces tower profile along the length of the tower.

The following information is provided to address the changes to the Application and other supporting documents resulting from the proposed tower height change to 190 feet.

- Revised cover page to the Application identifying a tower height of 190 feet for construction.
- Revised page (4) of the Application, changing the referenced document under "Exterior lighting" to Attachment (13) on Site Exterior Lighting.
- Revised page (8) of the Application, changing the tower height on the second bullet to 190'.
- Revised pages 43 to 55, Attachment (8) to Application to provide new Site Plan drawings for 190' tower.

PHONE: 207.582.0056 FACSIMILE: 207.582.9098

- Revised page 70, Attachment (13) to the Application, "Site Exterior Lighting". Revision limits exterior site lighting to equipment shelter only.
- New FAA Determination on the 190' tower, (3) pages, dated 01/27/2015 stating "marking and lighting are not necessary for aviation safety".
- Revised RF coverage maps of Big Lake Township area with proposed 190' tower. Attachment provides (3) new coverage maps showing (1) network area coverage without 190' tower, (2) network area coverage with 190' tower, and (3) area coverage of Princeton area with 190' tower only.
- Revised Predictive Viewshed Map 5 for 190' tower. The original Map 5 to ttl-Architect Scenic Assessment dated 16 August, 2013 was for a proposed 250' tower.

Please contact me for any additional material or information.

Thank you for your consideration of this application.

Respectfully submitted,

PHONE: 207.582.0056 FACSIMILE: 207.582.9098

Jim Hebert / Black Diamond Consultants, Inc. Duly Authorized Agent for RSA #4 d/b/a U.S.

Cellular

Big Lake Township

Site ID #424342

Application For Wireless Telecommunication Site Plan To Construct a 190' Telecommunication Facility

Off of West Street (Map 04, Lot 25)

Applicant

Maine RSA #4, Inc. d/b/a U.S. Cellular By It's Duly Authorized Agent Black Diamond Consultants, Inc. 312 Water Street

Gardiner, ME 04345



7 PROPOSED USES, STRUCTURES AND FEATURES Proposed Use: What is the proposed use of your property? □ Residential □ Residential with Home Occupation

© Commercial or Industrial □ Public or Institutional □ Other: New Structures: Will you be constructing or installing any new structures on your property? x Yes □ No If yes, fill in a line on the table below for each new structure. Number of: Distance(in feet) of structure from nearest: Type of Plumbing or water fixtures Exterior dimensions Type of structure Bedrooms Foundation Property. River or Tie. onc. ake (dwelling, garage, porch, shed, etc.) (LxWxH) ream (full basement, slab, post, etc.) 0 800+ Please see 300+ 3000+ Please refer to Please refer to 7+ miles 1000'+ foundation Attachment (21) for info Attachment (21) for info and slab info on proposed structures. on exterior dimensions. in Attach. (21) Other Proposed Features: If you are proposing to add any of these features, check off the feature and answer the appropriate questions: Dimensions (LxW): 575' X 12' ∠ Parking Number of parking areas: one Shared driveway? χ□ No 85' X 30' □ Yes areas Dimensions (LxW): Distance of driveway (in feet) from nearest: Distance of parking areas (in feet) from nearest: Property Lake or River or Property line Lake or pond River or stream Wetland Road line pond stream Wetland 200'+ 1000'+ 200'+ 200'+ 2 Miles+ 2000'+ 1000'+ 3000+ 7+ miles Will the driveway have a slope □ Signs Number of signs: greater than 8%? □ Yes exceeding Dimensions (LxWxH): LURC Will the driveway cross any Will any signs be lighted? □ Yes □ No standards flowing water? Distance of signs (in feet) from advertised structure or activity: If yes, what type of crossings will be used? □ Bridge □ Culvert What features of the signs exceed LURC standards? Will crossings be sized at least 21/2 times the cross-sectional area of the flowing water? □ Yes □ No Why do the signs need to exceed LURC standards? □ Water What type of water supply will serve the property? supply No water supply needed at facility List the fixtures that will be installed to illuminate your Will the signs be a hazard to traffic? □ Yes □ No lighting property: How will the signs' design elements (color, bulk, Cutoff Motion materials, height, etc.) be compatible with the Type of bulb Watts fixture? activated? property and fit harmoniously into the surroundings? Please refer to Attachment Please refer to Attachment (05) for info (13) for info on light fixtures on facility signs 8. SEWAGE DISPOSAL FOR NEW AND ALTERED STRUCTURES Will any proposed new or altered structures include bedrooms, bathrooms or plumbing/water fixtures, or otherwise generate waste water? UN VOS YOUNG

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9.	WETLAND ALTERATIONS		
	your proposal alter any amount of land that is a mapped P-WL subdistrict or any ground below the normal high er mark of a lake, pond, river, stream, or intertidal area?	□ Yes	xı No
Will	your proposal alter an acre or more of any land area, either upland or wetland?	□ Yes	x No

10. FEMA FLOOD ZONING

Are you proposing first-time development or making substantial improvements to any existing development within a mapped FEMA floodplain?



LUPC APPLICATION FEE FOR BIG LAKE TOWNSHIP SITE

(LUPC APPLICATION FEE BASED ON LUPC GENERAL APPLICATIONS SECTION 1.04.B.8 "UTILITY FACILITIES PERMIT APPLICATIONS")

	o Miscellaneous Post/Sonotubes \$30.00
	\circ 2 - Shelter Stoops @ 5ft X 5ft = (2 X 25ft ² X \$0.40/ft ²) = \$20.00
	\circ 12' X 20' Shelter = $(240\text{ft}^2 \text{ X } \$0.40/\text{ft}^2) = \$96.00$
	SITE STRUCTURE FOOTPRINTS (@, \$0.40/ft. of Footprint)
•	TOWER HEIGHT (\$1.00 per foot of Tower Height) – (190'X \$1.00/ft) \$190.00
•	BASE FEE\$500.00

APPLICATION FEE PAYED BY BDC CHECK # 12106



www.BLCKDiamond.net

312 Water Street PO Box 57 Gardiner, ME 04345

111 New Hampshire Avenue Portsmouth, NH 03801

tel 207 582,0056 fax 207.582 9098 tel 603 570 2281

BDC PROJECT USCC-119



UNITED STATES CELLULAR CORPORATION

PRINCETON 424342 SITE NUMBER: SITE NAME: LATITUDE:

45° 10' 29.2" 67° 36' 35.3" **LONGITUDE:**

SOURCE: DeLorme SCALE: NTS VICINITY MAP

DRAWING INDEX COVERSHEET (CVR) CVR-1A-2 COVERSHEET PROJECT INFORMATION DETAIL NUMBER SHEET ON WHICH DETAIL APPEARS LEGEND

BIG LAKE TOWNSHIP, MAINE 04668

UNITED STATES CELLULAR CORPORATION c/o BLACK DIAMOND CONSULTANTS, INC 312 WATER STREET PO BOX 57 GARDINER, MAINE 04345 APPLICANT

PO BOX 143 PRINCETON, MAINE 04668 CHRISTOPHER COCHRAN PROPERTY OWNER

SHEET ON WHICH ELEVATION APPEARS

ELEVATION NUMBER

ABBREVIATIONS

FIBER CONVERTER TELEPHONE FIBER ENCLOSURE FOUNDATION GALVANIZED GND FAULT INTERRUPTER GATEHOUSE GROUND

SECTION NUMBER SHEET ON WHICH SECTION APPEARS

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BANGOR HYDRO ELECTRIC COMPANY 970 ILLINOIS AVENUE BANGOR, MAINE 04401 207,945,5621

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FAIRPOINT COMMUNICATIONS 627 ROUTE 3 SOUTH CHINA, MAINE 04358 866.984.3001 *TELEPHONE COMPANY*

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ELE-1A-O ELECTRICAL DETAILS
ELE-1a-0 ELECTRICAL AND TELCO DETAILS
ELE-2A-0 GROUNDING DETAILS ARCHITECTURAL (ARC)
ARC-1A-2 TOWER ELEVATION AND
ANTENNA LOCATION SECTION APPROVED: LAND USE PLANNING COMMISSION CIVIL (CIV)

(CIV.1A-2 SITE PLAN

ELE

CIV-1B-0 ACCESS ROAD PROFILE

CIV-2A-1 COMPOUND LAYOUT PLAN

CIV-3A-0 CELLUAR EQUIPMENT

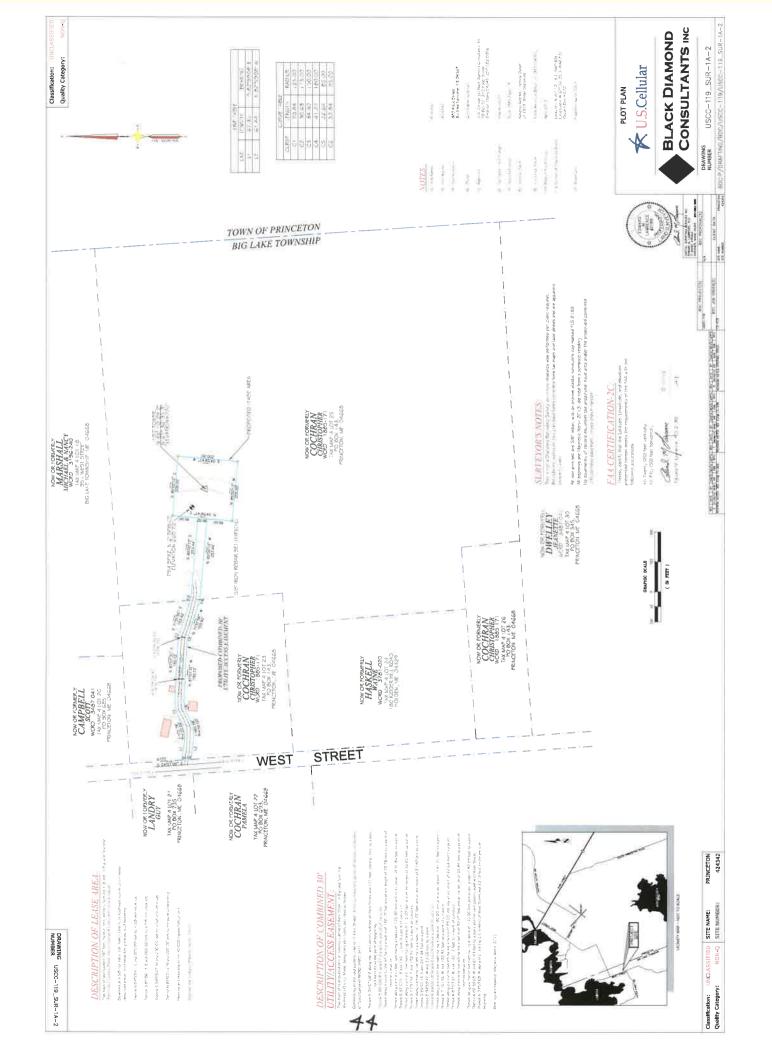
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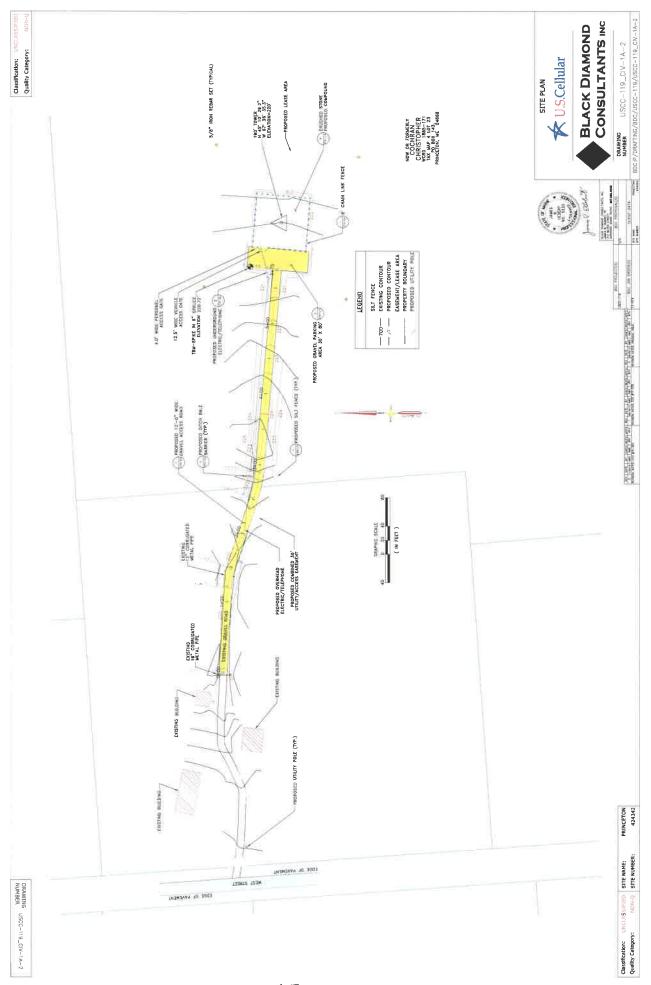
CIV-4A-0 FOUNDATION AND STOOP DETAILS

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Classification: PRECIA SETTE
Quality Category: NOV-

NUMBER USCC-119_CIV-18-0

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V.S.Cellular

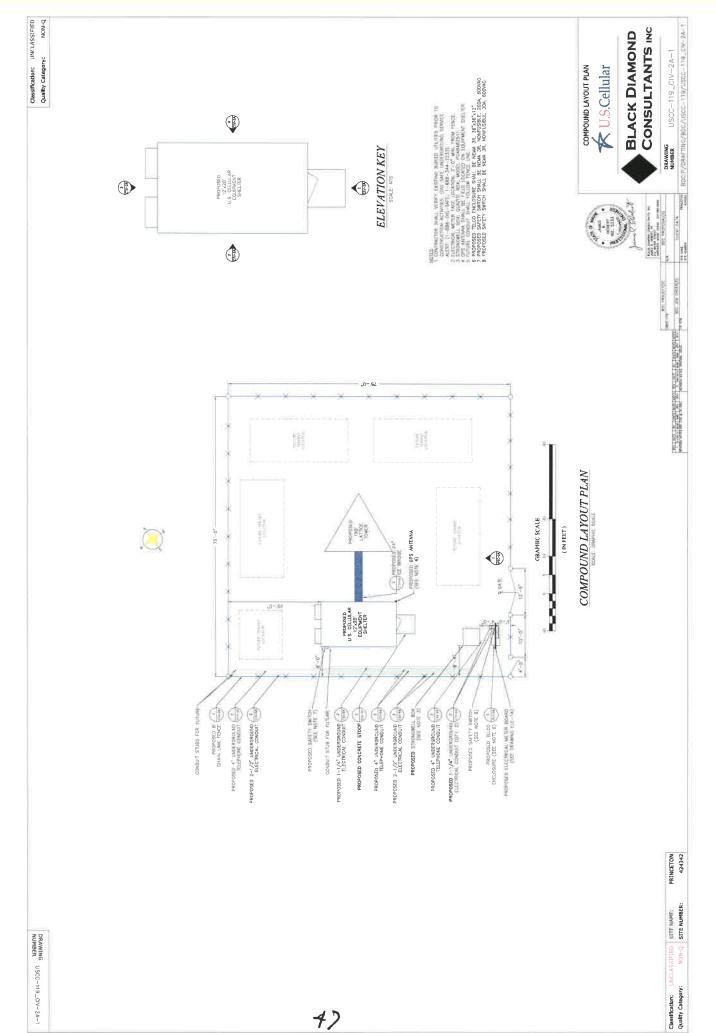
BLACK DIAMOND CONSULTANTS INC

DRAWING USCC-119_CIV-1B-0

BDC:P/DRAFTING/BDC/USCC-119/USCC-119_CIV-1B-0

PRINCETON 424342

Classification: UNCLASSIFIED SITE NAME: Quality Category: NON-Q







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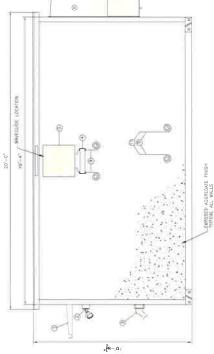
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-	FACILITY HAS NO PLUMBING



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PRINCETON 424342

SITE NAME: SITE NUMBER:

Classification: UNCLASSIFIED Quality Category: NON-Q

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BLACK DIAMOND CONSULTANTS INC

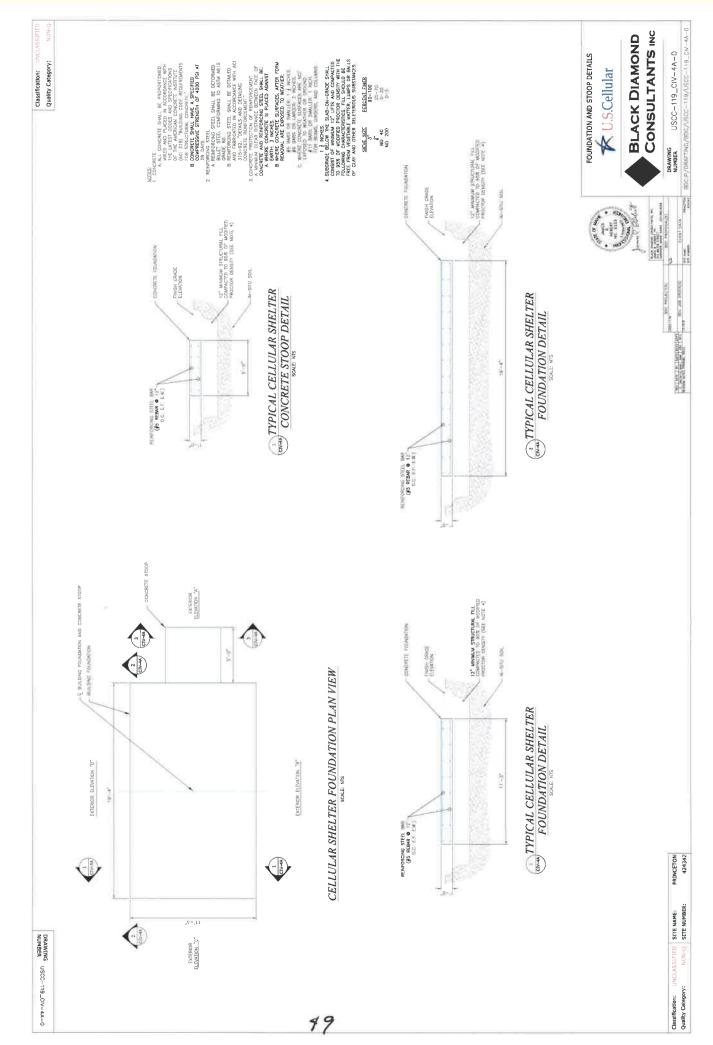
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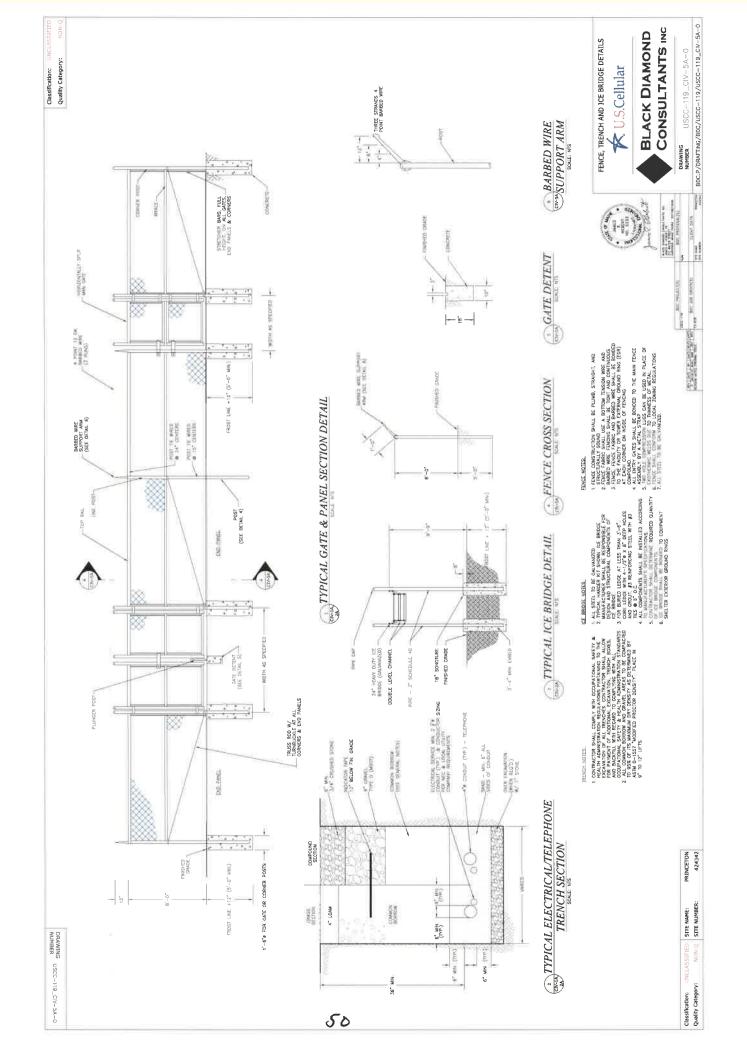
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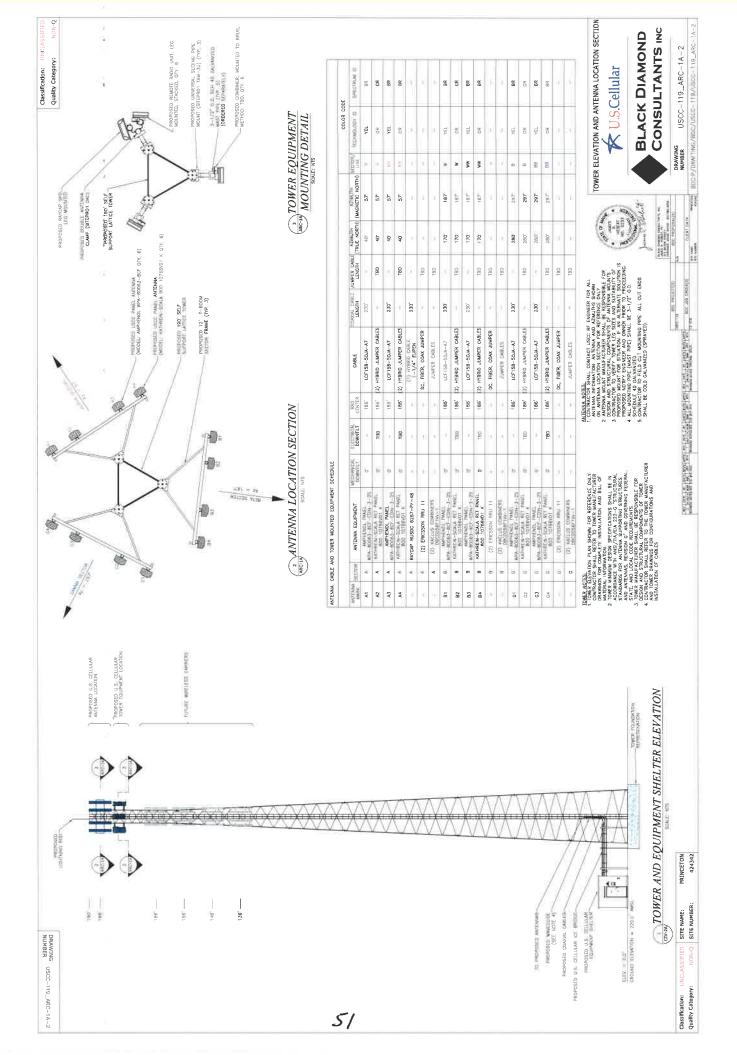
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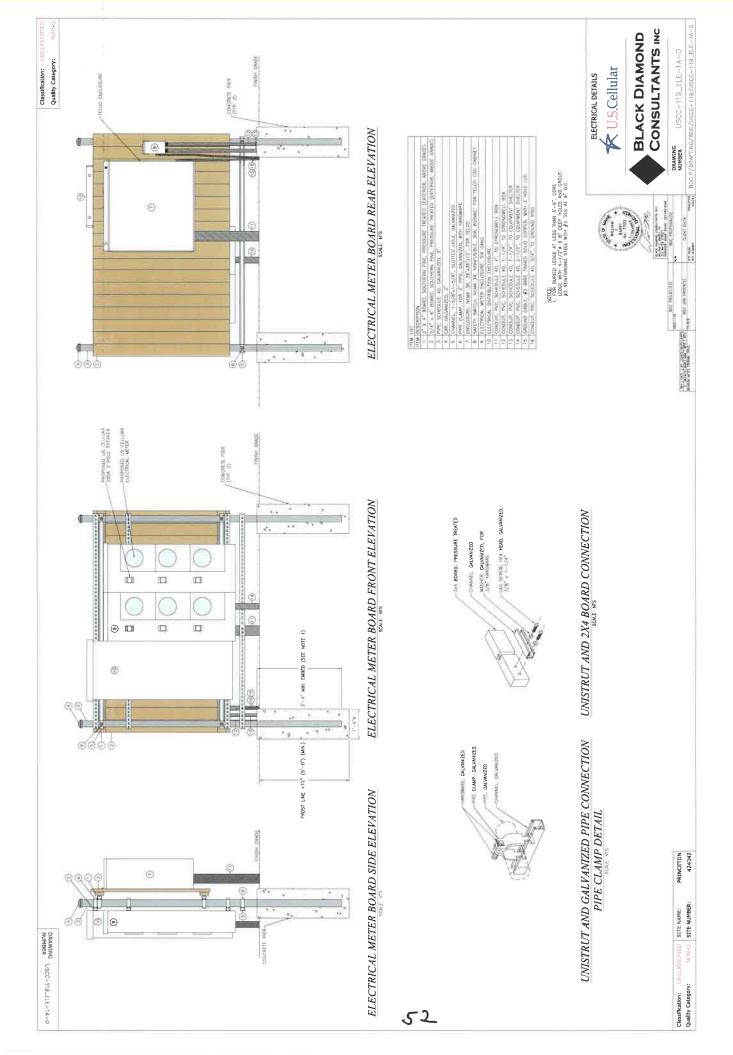
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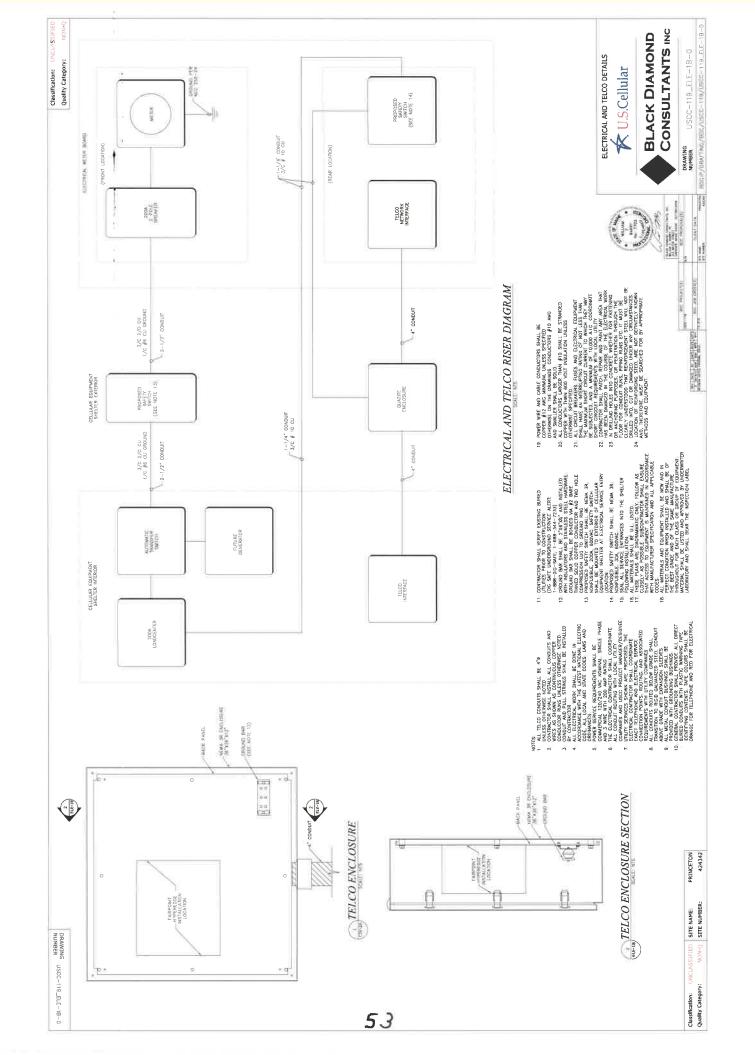
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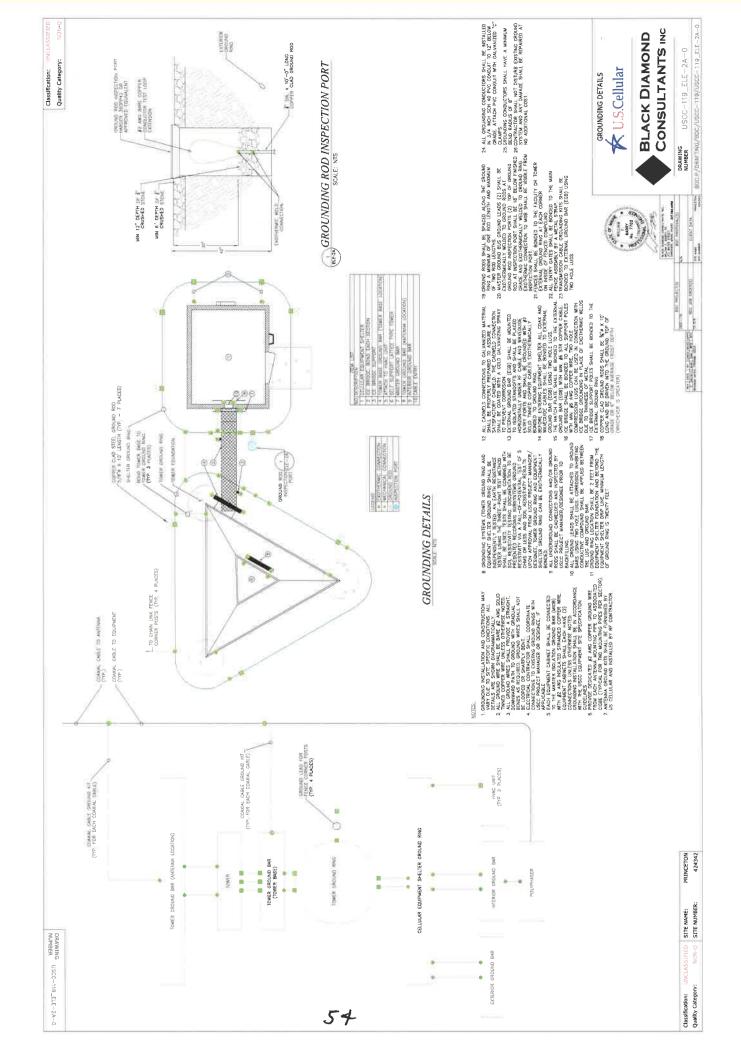












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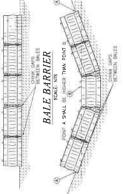
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Classification: UNCL

Quality Category:

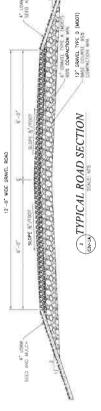
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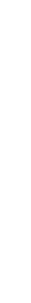
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SILT FENCE DETAIL

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ENVIRONMENTAL AND CIVIL DETAILS

CONSULTANTS INC **BLACK DIAMOND**

CC-119/USCC-119_ENV-1A-0 USCC-119_ENV-1A-0 AND PURA

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Quality Category: Classification:

SITE NUMBER:

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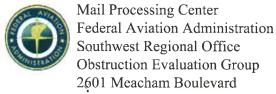
424342 PRINCETON

Black Diamond Consultants BDC Project: USCC-119

ATTACHMENT # 13

SITE EXTERIOR LIGHTING

(The only exterior light proposed for the facility is located on the facility shelter. The light is a wall pack fixture of 50 to 100 watt and is a cutoff fixture designed to retain the light close to the shelter. The exterior light is used only when the facility is occupied for maintenance or facility checks. The light is connected to a timer that secures the light after approximately one hour of use. Please refer to attached page for information on the shelter lighting.)



Fort Worth, TX 76193

Sherry Rochford

US Cellular Corporation - NH

10 Corporate Drive Suite 210

Issued Date: 01/27/2015

Bedford, NH 03110

** DETERMINATION OF NO HAZARD TO AIR NAVIGATION **

Aeronautical Study No.

2015-ANE-59-OE

2014-ANE-49-OE

Prior Study No.

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure: Antenna Tower 424342 Princeton

Location: Princeton, ME

Latitude: 45-10-29.20N NAD 83

Longitude: 67-36-35.30W

Heights: 220 feet site elevation (SE)

> 196 feet above ground level (AGL) 416 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, is(are) met:

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be e-filed any time the project is abandoned or:

	At least 1	0 days prio	r to start o	of construction	on (7460	0-2, Part	1)		
X	Within 5	days after	the constr	uction reach	es its gr	eatest he	ight (7460-2,	Part 2)

Based on this evaluation, marking and lighting are not necessary for aviation safety. However, if marking/ lighting are accomplished on a voluntary basis, we recommend it be installed and maintained in accordance with FAA Advisory circular 70/7460-1 K Change 2.

This determination expires on 07/27/2016 unless:

- (a) the construction is started (not necessarily completed) and FAA Form 7460-2, Notice of Actual Construction or Alteration, is received by this office.
- extended, revised, or terminated by the issuing office. (b)
- the construction is subject to the licensing authority of the Federal Communications Commission (c) (FCC) and an application for a construction permit has been filed, as required by the FCC, within 6 months of the date of this determination. In such case, the determination expires on the date prescribed by the FCC for completion of construction, or the date the FCC denies the application.

NOTE: REQUEST FOR EXTENSION OF THE EFFECTIVE PERIOD OF THIS DETERMINATION MUST BE E-FILED AT LEAST 15 DAYS PRIOR TO THE EXPIRATION DATE. AFTER RE-EVALUATION OF CURRENT OPERATIONS IN THE AREA OF THE STRUCTURE TO DETERMINE THAT NO SIGNIFICANT AERONAUTICAL CHANGES HAVE OCCURRED, YOUR DETERMINATION MAY BE ELIGIBLE FOR ONE EXTENSION OF THE EFFECTIVE PERIOD.

This determination is based, in part, on the foregoing description which includes specific coordinates, heights, frequency(ies) and power. Any changes in coordinates, heights, and frequencies or use of greater power will void this determination. Any future construction or alteration, including increase to heights, power, or the addition of other transmitters, requires separate notice to the FAA.

This determination does include temporary construction equipment such as cranes, derricks, etc., which may be used during actual construction of the structure. However, this equipment shall not exceed the overall heights as indicated above. Equipment which has a height greater than the studied structure requires separate notice to the FAA.

This determination concerns the effect of this structure on the safe and efficient use of navigable airspace by aircraft and does not relieve the sponsor of compliance responsibilities relating to any law, ordinance, or regulation of any Federal, State, or local government body.

Any failure or malfunction that lasts more than thirty (30) minutes and affects a top light or flashing obstruction light, regardless of its position, should be reported immediately to (877) 487-6867 so a Notice to Airmen (NOTAM) can be issued. As soon as the normal operation is restored, notify the same number.

A copy of this determination will be forwarded to the Federal Communications Commission (FCC) because the structure is subject to their licensing authority.

If we can be of further assistance, please contact our office at (817) 321-7755. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2015-ANE-59-OE.

Signature Control No: 241397816-241477870 (DNE)

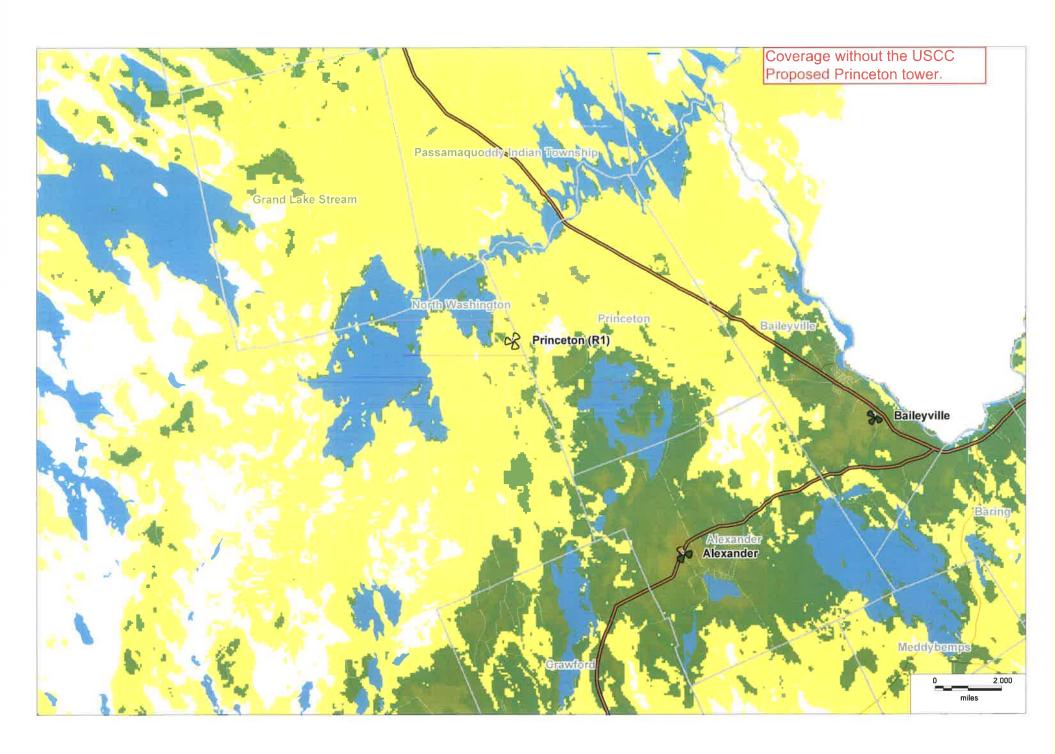
Debbie Cardenas Technician

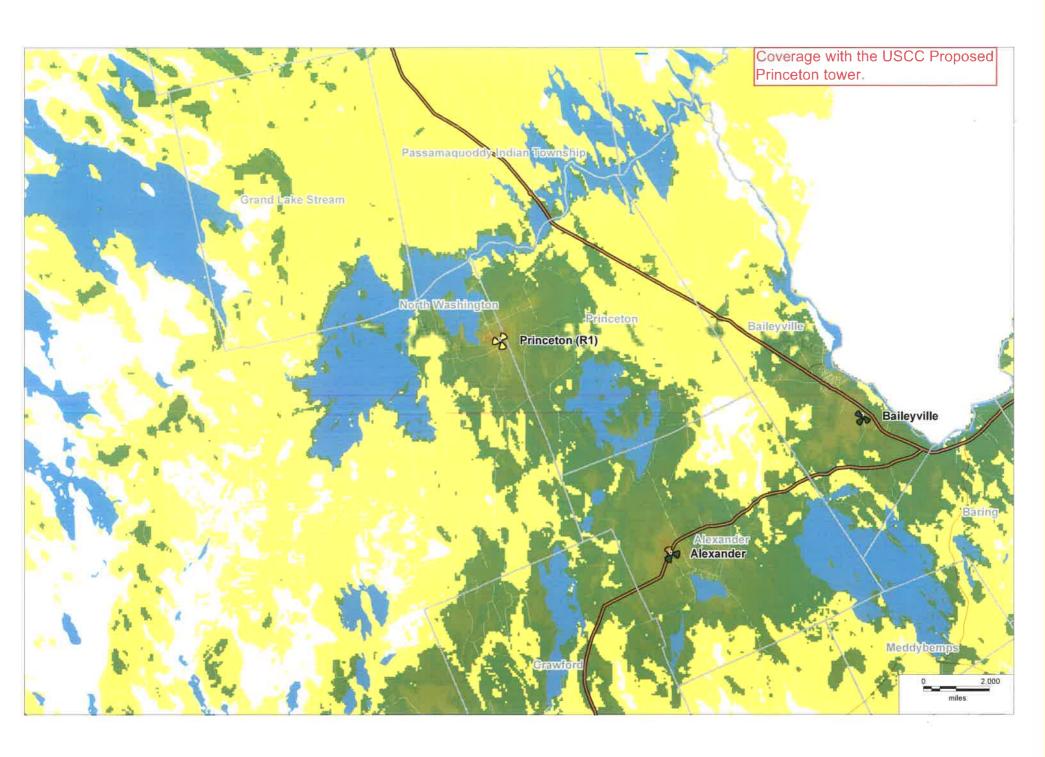
Attachment(s)
Frequency Data

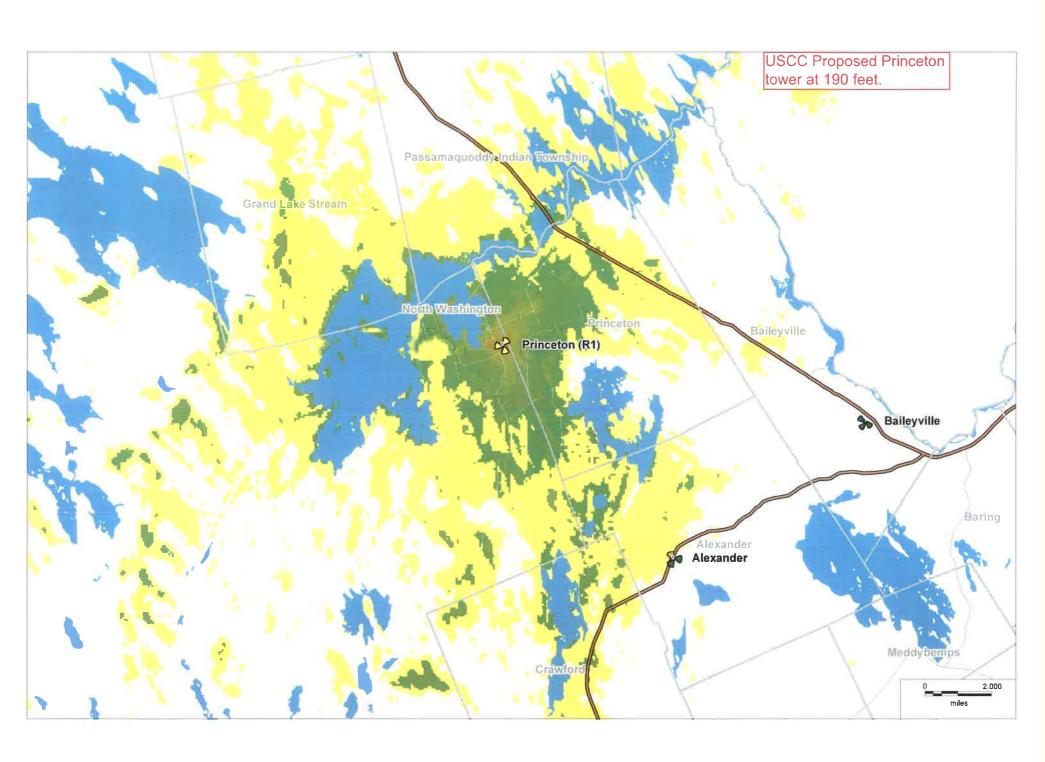
cc: FCC

Frequency Data for ASN 2015-ANE-59-OE

LOW FREQUENCY	HIGH FREQUENCY	FREQUENCY UNIT	ERP	ERP UNIT
698	806	MHz	1000	W
806	824	MHz	500	W
824	849	MHz	500	W
851	866	MHz	500	W
869	894	MHz	500	W
896	901	MHz	500	W
901	902	MHz	7	W
930	931	MHz	3500	W
931	932	MHz	3500	W
932	932.5	MHz	17	dBW
935	940	MHz	1000	W
940	941	MHz	3500	W
1850	1910	MHz	1640	W
1930	1990	MHz	1640	W
2305	2310	MHz	2000	W
2345	2360	MHz	2000	W







From: Jim Hebert

To: Bolstridge, Karen

Cc: "Chad Hebert"; Megan McGuire; Richard Houde

Subject: RE: Revised Application and Supporting Documents for Big Lake Twp. with 190" Tower

Date: Monday, February 09, 2015 12:45:51 PM

Karen, I have received a revised Predictive Viewshed Map 5 for the 190' tower from ttl-Architect. The only change to the viewshed map is that it now also provides the photo references on the map as previously provided for the predictive viewshed map for the 250' tower. For the (4) referenced photos where the 250' lofted balloon was visible, please bear in mind that the height of the visible balloon would be reduced by 60' for the proposed 190' tower. Thanks, Jim

From: Jim Hebert [mailto:jrhebert@blckdiamond.net]

Sent: Friday, February 06, 2015 12:16 PM

To: 'Karen.Bolstridge@maine.gov'

Cc: 'Chad Hebert' (cjhebert@blckdiamond.net); Megan McGuire (mjmcguire@blckdiamond.net); Richard

Houde (richard.houde@uscellular.com)

Subject: Revised Application and Supporting Documents for Big Lake Twp. with 190' Tower

Karen, attached is a pdf file of the revisions to the Big Lake Twp. Application with the 190' tower. The letter provides the information on the changes to the Application and documents in support of the proposed change from a 250' tower to 190'. Please let me know if you need hard copies of this submittal, including large size Site Plan drawings and how many of each that you need. Please let me know if you need any additional information. Thanks, Jim

