

STATE OF CONNECTICUT
CONNECTICUT SITING COUNCIL

IN RE:

APPLICATION OF HOMELAND TOWERS, LLC
(HOMELAND TOWERS) AND NEW CINGULAR
WIRELESS PCS, LLC (AT&T) FOR A
CERTIFICATE OF ENVIRONMENTAL
COMPATIBILITY AND PUBLIC NEED FOR THE
CONSTRUCTION, MAINTENANCE AND
OPERATION OF A TELECOMMUNICATIONS
TOWER FACILITY IN WASHINGTON,
CONNECTICUT

DOCKET NO. 441

November 26, 2013

**HEARING INFORMATION OF
HOMELAND TOWERS AND NEW CINGULAR WIRELESS**

Homeland Towers, LLC (“Homeland”) and New Cingular Wireless PCS, LLC (“AT&T”) (together the “Applicants”), submit the following hearing information to the State of Connecticut Siting Council in the captioned proceeding:

Counsel Appearing at the Hearing

Counsel appearing at the hearing will be Christopher B. Fisher, Esq.

List of Witnesses

1. Scott Chasse, P.E., All-Points Technology Corporation, P.C.
2. Dean Gustafson, All-Points Technology Corporation, P.C.
3. Michael Lawton, SAI, Manager of Engineering

4. Michael Libertine, LEP, Director of Siting and Permitting, All-Points Technology Corporation, P.C.
5. Raymond Vergati, Site Development Manager/Consultant, Homeland Towers
6. Manuel Vicente, President, Homeland Towers

Resumes/professional biographies included as Attachment 1

Documents to be Administratively Noticed

None at this time.

Exhibits to be Offered

The Applicants will offer as exhibits the following:

1. Application of Homeland and AT&T dated September 16, 2013
2. Homeland and AT&T Bulk Filing dated September 16, 2013
3. Homeland and AT&T Responses to Siting Council Interrogatories Set I dated November 12, 2013.
4. Applicants' November 26, 2013 Supplemental Submission including
 - a. Pre-Filed Statement Of Facts In Lieu Of Direct Testimony, dated November 26, 2013
 - b. August 29, 2013 letter from Department of Energy and Environmental Protection confirming that the State's Natural Diversity Database indicates that there are no extant populations of Federal or State-listed Endangered, Threatened or Special Concern Species that may be affected by the project as described in the application.

Affidavit of Sign Posting

A notice sign in keeping with Siting Council requirements was posted at the subject property on November 13, 2013. An affidavit of posting with photographs of the posted sign is included here as Attachment 2.

Public Presentation

For the Siting Counsel's records, included here as Attachment 3, please find a hardcopy of the electronic presentation the Applicants will provide at the December 3, 2013 7:00pm public hearing on this Docket. All information included in the presentation is incorporated in the above noted exhibits to be offered.

The Applicants reserve the right to offer additional exhibits, testimony, witnesses and administratively noticed materials as may be necessary during the hearing process.

ATTACHMENT 1

SCOTT M. CHASSE, P.E.
3 SADDLEBROOK DRIVE KILLINGWORTH, CT 06419
860-663-1697 860-663-0935

ALL-POINTS TECHNOLOGY CORPORATION, P.C. (APT) Dec. 2000 – Present

Mr. Chasse is a co-Founder of All-Points Technology Corporation (APT), a civil and structural engineering firm servicing the wireless industry. He is an officer and Secretary of the Corporation. He provides hands-on design and permitting services to multiple wireless telecommunication carriers in CT and NY. Services include: 1) conducting constructability assessments and design audits; 2) developing zoning and construction drawings for the installation of telecommunication facilities and new tower structures; and 3) providing construction inspection and administrative services in support of obtaining Certificates of Completion for his clients. Mr. Chasse has participated in the design and development of over eleven hundred wireless telecommunications projects during his tenure at APT.

DIVERSIFIED TECHNOLOGY CORPORATION (DTC) Mar. 1998- Dec. 2000

Mr. Chasse served as Director of Environmental and Telecommunication Departments while employed at DTC. He managed up to fourteen technical staff in completing over two hundred wireless telecommunication projects, environmental assessments, and several large-scale remedial investigations and compliance audits.

SPRINT PCS Oct. 1996- Mar. 1998

Mr. Chasse was employed as the Wireless Implementation Manager for the Connecticut and Western Massachusetts market during the carrier's initial coverage launch. He was responsible for the zoning, design, environmental compliance and construction of over 150 wireless telecommunication facilities during this time and managed over seventy contractors and staff.

BERGER LEHMAN ASSOCIATES (BLA) Dec.1994 – Oct. 1996

Mr. Chasse was the Chief Environmental Inspector and Auditor for a \$100mm CTDOT bridge project in Hartford, CT. He was responsible for enforcing contract performance with all local, Federal and State environmental permits and regulations. Mr. Chasse collected samples and conducted *in-situ* analyses to verify contractor's compliance with approval remedial action plans. Mr. Chasse also served as the Health and Safety Coordinator for the project and the Connecticut office of BLA.

EDUCATION: University of Connecticut, B.S. Civil Engineering

PROFESSIONAL ENGINEERING LICENSE(s): Connecticut 1997 to present (#19728)
New York 2001 to present (#6848361)

AFFILIATIONS: Member of Chi-Epsilon (1992- present)
AISC & ASCE member
Building Committee Member for \$48mm RD17 School
Pack 18 Cub Scouts Committee Chairman
Troop 18 Boy Scouts Committee Member

Dean Gustafson
Professional Soil Scientist
Senior Wetland Scientist
All-Points Technology Corporation, P.C.
3 Saddlebrook Drive, Killingworth, CT 06419
860-663-1697 860-836-6576

General Background

Mr. Gustafson has over 24 years of professional experience in the environmental consulting field. His experience includes NEPA/CEPA documentation, wetlands (delineation, evaluation, mitigation design, monitoring, stream restoration, and local, state and federal permitting), water-quality investigations, coastal-zone-management studies, natural-resource and ecological evaluations. Mr. Gustafson is experienced in vernal pool monitoring and assessment, including identification of a wide variety of native amphibians and reptiles that utilize vernal pool habitats. Mr. Gustafson also has extensive experience with the Connecticut Department of Energy and Environmental Protection Natural Diversity Data Base and has resolved numerous potential rare species conflicts with proposed developments. Mr. Gustafson has particular expertise in wetland identification, soil mapping, soil classification, vegetative and hydrology surveys, wetland impact assessment, wetland mitigation design and oversight. In addition, he has extensive experience in local, state, and federal wetland permitting including having worked on over 100 Connecticut Siting Council dockets along with providing expert testimony at Council hearings. Mr. Gustafson has consulted on numerous projects which involve soils related issues such as erosion and sediment control planning, vegetative soil stabilization and storm water management BMP evaluation and selection. He has served as the Environmental Compliance Monitor on several Connecticut Siting Council approved projects. Mr. Gustafson's water quality experience includes stormwater studies for compliance with National Pollution Discharge Elimination System (NPDES), Section 401 Water Quality Certification, and the 2004 Connecticut DEP Stormwater Quality Manual.

Employment History

Vanasse Hangen Brustlin, Inc., 54 Tuttle Place, Middletown, Connecticut

- Natural Resource Group Leader 1997 to 2012

Atlantic Environmental Services, Inc./GEI Consultants, Colchester, Connecticut

- Senior Project Scientist 1992 to 1997

Soil Science & Environmental Services, Cheshire, Connecticut

- Professional Soil Scientist 1988 to 1992

Key Projects

On Call Environmental Services, Northeast Utilities Transmission Group

Task Manager in support of various Connecticut projects, including assessment and permitting of bulk power substations, transmission lines/structures, underground utility installations, and environmental investigations of existing facilities. Services include pre-acquisition due diligence activities, conducting site development feasibility assessments, natural resources inventories of existing flora and fauna, vernal pool studies and assessment, habitat evaluations, wetland delineations, wetland assessment, wetland mitigation design, wetland mitigation construction monitoring, permit compliance monitoring, site layout and design evaluations, erosion and sediment control planning and construction monitoring, vegetative soil stabilization and storm water management BMP evaluation and selection, preparation of technical documents, coordination with State and local agencies, and permitting support.

Environmental Compliance Monitor, Structure Replacement Project, Montague/Leverett, Massachusetts

Environmental Compliance Monitor in accordance with Massachusetts Department of Environmental Protection 401 Water Quality Certificate permit conditions for 345 kV structure replacement project. Monitoring included installation of wooden timber swamp mats across a 65-acre beaver impoundment for the removal of eight existing wooden structures and replacement with four steel structures. Environmentally sensitive compliance monitoring across this approximate 3,500 linear foot span included monitoring of drilling activities for deep caisson foundations within wetlands including in the middle of the beaver impoundment.

Regulatory Permitting, Barbour Hill Substation Modifications, South Windsor, Connecticut

Project Manager responsible for the preparation of a Petition to the Connecticut Siting Council for a determination that no Certificate of Environmental Compatibility and Public Need was required for the proposed modifications to the Barbour Hill Substation in South Windsor, Connecticut. The project included the replacement and expansion of an existing facility and the modification of line interconnections. Responsibilities included conducting natural resource inventories, wetland delineation, noise study, soil and groundwater sampling, property survey, preparation of site/civil design drawings, supporting graphics, photo-simulations, and local and state permit documents. Mr. Libertine also supported CL&P during its contractor selection process and developed a site-wide soil and water management plan for implementation during construction activities.

Certificate of Environmental Compatibility and Public Need, Rood Avenue, Windsor, CT

Task Manager responsible for the preparation of environmental sections of a Certificate of Environmental Compatibility and Public Need to the Connecticut Siting Council for the construction of a new substation. The project included the construction of a substation in wooded uplands with direct wetland impacts. Responsibilities included conducting natural resource inventories, wetland delineation, and local and state permit documents and coordination with the U.S. Army Corps of Engineers New England Division. The project also included the successful transplanting of pink lady-slippers (*Cypripedium acaule*).

Regulatory Permitting, Barbour Hill Substation Modifications, South Windsor, CT

Task Manager responsible for the preparation of a Petition to the Connecticut Siting Council for a determination that no Certificate of Environmental Compatibility and Public Need was required for the proposed modifications to the Barbour Hill Substation. The project included the replacement and expansion of an existing facility and the modification of line interconnections. Responsibilities included conducting natural resource inventories, wetland delineation, and local and state permit documents.

Environmental Assessment and Constructability Review, Central Connecticut Reliability Project

Project Scientist for natural resources inventory/assessment and construction evaluation along 35 miles of ROW corridor. Environmental tasks included Connecticut and federal wetland delineations, Army Corp of Engineers data plots, wetlands functions and values assessment, inventory of threatened and endangered species and critical habitats, biological surveys, and cover-type mapping. Once existing conditions were documented, a feasibility analysis was conducted to identify environmental and constructability conflicts associated with proposed new line installation and facility upgrades.

Certificates of Environmental Compatibility and Public Need, Various Sites, Connecticut

Has served as Task Manager in support of numerous Applications to the Connecticut Siting Council (CSC) for the permitting of new electrical substations throughout Connecticut. These projects require extensive site data collection and analysis including natural resources inventories of existing flora and fauna, habitat evaluations, wetland delineation and function/value analysis, site layout analysis and wetland impact evaluation, wetland mitigation, preparation of technical documents, coordination with State and local agencies, and permitting. Environmental monitoring services for adherence to the CTDEP's General Permit for Construction Activities were also provided.

Environmental Permitting Services for Wireless Telecommunications Clients, New England & NY

Task Manager for environmental due diligence and permitting services in support of various telecommunications clients throughout New England and New York. Mr. Gustafson has worked directly with the major licensed PCS carriers since 1997. Projects include due diligence and land use evaluations; preliminary site screenings; preparation of compliance documentation, environmental assessments and Memorandums of Agreement to fulfill NEPA requirements; wetland delineation, assessments, and mitigation; local, state and federal wetland permitting; vegetative/biological surveys; rare species investigations; floodplain compliance; preparation of regulatory applications (including SEQRA submissions); permit compliance monitoring; and permitting support. Mr. Gustafson has testified on behalf of telecommunications clients in front of local municipalities and the Connecticut Siting Council on over 100 applications and petitions.

Telecommunications Carrier Wetland Compliance Program

Project Manager for major telecommunications carrier's wetland compliance program. Responsible for wetland delineation, assessment, mitigation and alternatives analysis, habitat evaluations, vernal pool identification and assessment, design review for permit feasibility, and successful permitting of over 50 wireless telecommunications facilities with local wetland/conservation commissions in the Connecticut, Massachusetts, and Rhode Island market

areas. Responsible for erosion and sediment control planning and construction monitoring for projects in Connecticut and Massachusetts that represent a potential to impact sensitive wetland resources during construction.

National Retailer, Rocky Hill, CT

Responsible for wetland permitting of a multi-tenant retail development resulting in significant unavoidable wetland impacts and the creation of a wetland mitigation area exceeding 1 acre in size. Wetland permits were secured from the Rocky Hill Wetland Agency, CTDEP and U.S. Army Corps of Engineers for wetland impacts and wetland mitigation area.

Luxury Residential Development, Hartford, CT

Project manager for an award-winning luxury residential community developer. Provided project management and technical direction for wetland compliance of projects undertaken in Connecticut including wetland determination, evaluation, mitigation design and local, state and Army Corps of Engineers permitting. Assisted with planning restoration of a failed slope that occurred during construction, secured approval from the local wetland commission and monitored erosion and sediment controls to ensure that nearby wetlands and perennial stream were not adversely impacted.

Retail Wetland Program, Various Projects, CT

Project manager for the Connecticut office for large retail Client Fee-for-Service and Turnkey Developer Programs. Provide project management and technical direction for wetland compliance of projects undertaken in Connecticut including wetland determination, evaluation, mitigation design and local, state and Army Corps of Engineers permitting.

Connecticut DOT West Haven/Orange Railroad Station, Environmental Assessment

Task manager for assessing natural resources, including wetlands, floodplain, aquatic habitats, and wildlife, associated with a proposed railroad station at one of two possible sites. Prepared technical documents in support of Draft Federal Environmental Assessment/Draft State Environmental Impact Evaluation.

Wetlands Survey and Permitting, ConnDOT Maintenance Facility.

Performed both a state and federal wetland survey and delineation in conjunction with the submission and successful obtainment of a CTDEP Inland Wetlands and Watercourses permit and 401 Water Quality Certifications to conduct remedial activities within and adjacent to existing floodplain wetlands.

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Education

B.S. University of Massachusetts, Plant and Soil Sciences, 1988

Graduate coursework, University of New Hampshire

Affiliations

Member, Lebanon Inland Wetlands and Watercourses Commission, since 1995.

Member, Connecticut Audubon Society

Registration

Professional Soil Scientist, Society of Soil Scientists of Southern New England, since 1988.

Connecticut Association of Wetland Scientists.

Association of Massachusetts Wetland Scientists.

Certifications

OSHA Hazardous Water Operations and Emergency Response (HAZWOPER) Training (29 CFR 1910.120)

Michael Lawton

Personal Summary

- 24 Years Wireless Engineering and management experience
- In-depth market knowledge in several of the top 10 US markets
- Successful history of design and deployment of large-scale wireless networks
- Experienced with multiple RF technologies, vendors, systems and tools
- Proven reliability, integrity and responsibility as engineer, leader and manager
- Demonstrated ability to form, manage and motivate engineering teams in all stages of network deployment from start-up through network stability
- Consistent record of revenue and margin growth throughout areas of responsibility
- Strong interpersonal, verbal and written communication skills
- Member of Town of Harvard, MA Zoning Board of Appeals

Education

Rensselaer Polytechnic Institute, Electrical Engineering, 1984-1987

Experience

SAI Communications (SAI)

January 2012-present

Manager of Engineering

- Full responsibility for RF engineering team, including LTE Overlay design, scoping, RFDS creation, drive testing, DAS survey, design and commissioning, MPE studies and measurements, RF safety plans, .

Telecom Technology Services (TTS)

March 2006- Jan 2012

Director of Engineering

Responsibilities have included:

- Full responsibility for P&L and employee management of West Coast and Southern US areas of operation as services leader and KAM
- Partnering with sales, software development and marketing to develop creative solutions to meet customer needs and win business
- Oversight and technical leadership for turnkey network growth projects in New England (MA, RI, ME, NH, VT, CT), NY and Northern CA.
- Responsibility for leadership of all RFP/RFQ, tender and bid responses within area of responsibility
- Strong record of customer satisfaction, growth and retention throughout areas of responsibility
- Team size between 20 and 60 engineers
- Business development, project execution, recruiting, training and team management among responsibilities
- Managed Model Tuning project for national wireless carrier, over 100 models delivered on-time and on-target
- Personally developed innovative engineering services and tools to grow revenue and increase customer base
- Technical oversight of many projects including turnkey optimization for GSM and UMTS, turnkey network design (2G and 3G) and QC, E911 compliance certification, AFP and ACP, model tuning, Greenfield and overlay design and rollout.

LCC International

April 1990 – Feb 2006

Customer: Cingular Wireless/AT&T Wireless

Dec 2004 – Feb 2006

- National technical lead, Program and Project Manager for UMTS design project. Managed, trained and led a team of over 50 engineers generating turnkey UMTS network designs for over 30 AT&T markets in all regions. Markets included all of Florida, Puerto Rico, N&S Carolina, Ohio, Colorado, Texas, Louisiana, Minnesota and Kansas/Missouri. Primary customer interface at Regional and National levels. Developed standards, oversaw

Michael Lawton

quality and participated in all customer readouts and design certification presentations. All designs done on-time and of high quality, leading to increased market award in later rounds.

- Fully responsible for P&L, staffing and management of national project, generating over 50% of LCC Americas total revenue and exceptional margin over project duration.
- Successful integration of LCC teams into AT&T process. Worked as a bridge between AT&T market and National teams as well as Site Development/PM vendors to insure project success and team achievement.

Customer: Cingular Wireless/SBC/Cellular One Boston/New England market

May 1996- Dec 2004

- Responsible for management of 30+ person engineering team providing technical guidance to Cingular Northeast Region Standards team, and New England and NY (upstate and NYC) market design and performance teams (Nokia GSM and Lucent TDMA) as well as market dimensioning, spectrum management, traffic growth projection and VCF analysis. Regional team is responsible for GSM feature trials and performance and design standard setting for all markets in NE US. Acted as primary Cingular market contact for Cingular/Nokia CA activities.
- Oversight of "Project Genesis" Boston Phase 2 (core) GSM rollout. Coordinated and reviewed system design and performance. SCHEMA and SETRAM simulation data review and output validation.
- Led Lucent mm and FLEXENT microcell deployment project for Boston Core, including Real Estate team and deployment team management. Developed streamlined RE process to facilitate rapid site deployment.
- Lead engineer for Cellular One conversion from 6 to 3-sector system configuration and from Motorola to Nokia equipment.
- Lead engineer for design and deployment of Lucent IS-136 product throughout New England market. Developed and utilized drive-data based reuse matrix for TDMA market planning (first known application in US).
- Lead engineer responsible for Boston Core (inside route 128) and all Design functions – New site selection, zoning support, datafill, commissioning data review, frequency planning and interference control. While involved, network grew from 30 sites to over 400. Zoning support and expert testimony in over 100 hearings and litigation engagements.
- Built LCC team from one (self) to over 30 engineers and led/managed largest, most successful and first LCC engineering deployment with AT&T in US.

Customer: France Telecom Paris, France

Jan 1996 – May 1996

- Developed 1997 System expansion plans for Marseille region of GSM900 system, including development and analysis of drive testing plan to evaluate system quality, frequency planning, and system coverage problem analysis.

Customer: Nextel/FleetCall Los Angeles, CA and New York, NY

Nov 1993 – Jan 1996

- Engineering project manager for Nextel's initial system (Los Angeles). Worked with Motorola and Nextel Corporate to develop MIRS/iDEN product, from initial RFP development and analysis/evaluation/recommendation to system implementation. Issues addressed included: Handover parameter development, mobile initialization procedure, Fraud prevention methodology, Dispatch functionality, Switch architecture, hardware (end user and site) development/requirements, Radio system design, antenna diversity and combining schemes.
- Developed Nextel/LCC/Site acquisition procedures, standards, and documentation, including system design, site acquisition, frequency planning, allocation and migration, interference testing, Motorola ATP, on-site sweeping and interference analyses, equipment ordering, and colocation.
- LCC Team leader and acting Nextel RF manager for Los Angeles system, from initial design phase and identification of coverage objectives and site budget through 80% system construction. Generated initial

Michael Lawton

system design and configuration, initial frequency plan, and system growth plans for first 3 years of system operation, including budgetary and manpower forecasts. Trained and managed a team of up to 12 engineers to develop the system, including site selection, configuration determination and optimization, Site drive testing, measurement integration and propagation model optimization, antenna location determination including colocation studies with other carriers, Zoning hearing testimony and site acquisition interaction.

- LCC Team Leader and acting Nextel RF Manager for New York Metropolitan system. Primary experience and responsibility same as above. Additionally responsible for day-to-day management of site acquisition and development team for the 5-Borough portion of the system (Manhattan, Bronx, Queens, Staten Island, Brooklyn) including 60+ sites.
- First LCC engineer/manager deployed on first LCC market for Nextel. Responsible for building customer relationship, account management, growth of team. Customer engagement grew from 1 engineer to over 80 engineers.

**Customer: Metro Mobile
Phoenix, Arizona**

Jan 1993 – Nov 1993

- Sole market engineer for Phoenix system. Developed plan for conversion of system from 6-sector to 3-sector operation. Generated frequency plan configuration changes, and retune plan, as well as handoff topology data, to reduce system blocking and dropped call rates. Participated in international coordination with Mexican authorities and developed guidelines for international spectrum management.

**Customer: McCaw Cellular
Portland, OR and Salt Lake City, UT**

March 1992-Jan 1993

- Assisted in system equipment changeover from AT&T to Ericsson. Duties included system performance comparisons, handoff algorithm tailoring, and testing plans. Also prepared and presented market expansion plans for corporate design/budgetary review.

Additional LCC tasks:

- Authored internal LCC papers on receive diversity performance, On-site interference and sweeping, colocation between Cellular and iDEN, antenna theory, iDEN traffic theory, and iDEN link budgets.
- Developed and taught classes on iDEN Technology, Link Budgets, IS-136 implementation, and antenna theory.

Moffet, Larson & Johnson, PC., Falls Church, Va.

March 1987-April 1990

Project History Highlights:

- *Fleet Call (now Nextel) Corporate* Developed initial application to the FCC for frequency allocation to create ESMR. Developed methodology to generate spectrum availability plots for Fleet Call channel acquisition team. Supported initial discussions with financial community to obtain venture capital to create Nextel.
- Frequency planning and system design for cellular clients including US Cellular, Buffalo and Rochester Cellular and Contel Cellular.
- Participated in construction of a new AM station array in Chicago.
- Generated FCC applications for AM, FM, TV, Cellular, MMDS, ITFS, and LPTV clients.
- Participated in FCC rulemaking procedures, and filed technical data supporting client's motions before the FCC.



Michael Libertine, LEP
Director of Siting and Permitting
All-Points Technology Corporation, P.C.
3 Saddlebrook Drive, Killingworth, CT 06419
860-663-1697 860-983-5153

General Background

Mr. Libertine has over 21 years of professional experience in the environmental consulting field. His experience includes regulatory compliance and permitting involving extensive interactions with the local, state and federal agencies, including the Connecticut Department of Energy and Environmental Protection, Connecticut Department of Transportation, and the Connecticut Siting Council, as well as the U.S. EPA and Federal Highway Administration; environmental assessments/impact statements for NEPA compliance; site assessments and field investigations for property transfers; remedial strategy development; environmental due diligence; Brownfields redevelopment projects; and remedial investigations at RCRA facilities as well as state and federally recognized hazardous waste site. Mike is a Licensed Environmental Professional in Connecticut and has been Project Manager on over 1700 environmental site assessments and field investigations for property transfers. Representative projects include:

Environmental Permitting Services for Wireless Telecommunications Clients, New England & NY

Program Manager for environmental due diligence, siting and permitting services in support of various telecommunications clients throughout New England and New York. Mike has worked directly for licensed wireless service providers and tower management firms since 1997. Representative project-related services include due diligence and land use evaluations; preliminary site screenings; preparation of compliance documentation, environmental assessments and Memorandums of Agreement to fulfill NEPA requirements; Phase I ESAs and Phase II field investigations; remedial planning and oversight; wetland assessments; vegetative/biological surveys; noise analyses; visibility analyses; graphic support; preparation of regulatory permit applications, and construction support. Mr. Libertine has testified on behalf of telecommunications clients in front of local municipalities and the Connecticut Siting Council (CSC) on over 250 applications and petitions.

Environmental Siting and Permitting Services, Electrical Utilities

Program Manager from 2004 through 2010 in support of various Connecticut projects, including assessment and permitting of bulk power substations, transmission lines/structures, and underground utility installations. Services include civil engineering feasibility studies, pre-acquisition due diligence evaluations, natural resources inventories of existing flora and fauna, habitat evaluations, wetland delineations, noise analysis, hazardous waste investigations, site survey, layout and design drawings, landscape architecture, preparation of technical documents, coordination with State and local agencies, regulatory permitting, public outreach, and expert witness testimony.

Environmental Assessment and Constructability Review, Central Connecticut

Project Manager for natural resources inventory/assessment and construction evaluation along 35 miles of ROW corridor. Environmental tasks included Connecticut and federal wetland delineations, Army Corp of Engineers data plots, wetlands functions and values assessment, inventory of threatened and endangered species and critical habitats, biological surveys, and cover-type mapping. Once existing conditions were documented, a feasibility analysis was conducted to identify environmental and constructability conflicts associated with proposed new line installation and facility upgrades.

Certificates of Environmental Compatibility and Public Need, Electrical Substations, Connecticut

Project Manager in support of Applications to the CSC for the permitting of five new bulk power substations in Killingly, Guilford, Windsor, Waterford and Westport, Connecticut. These projects required extensive coordination of numerous team members, including client's in-house discipline managers and engineers, consultants, legal counsel, staff, and subcontractors. Mike was responsible for overseeing pre-acquisition environmental due diligence services, site survey, site data collection and analysis, site/civil layout, and drafting of municipal documents and the Application to the CSC. Services included conducting natural resources inventories of existing flora and fauna,

habitat evaluations, wetland delineation, noise analyses, hazardous waste investigations, site layout and design drawings, landscape architecture, preparation of technical documents, coordination with State and local agencies, and permitting. Mike was also responsible for the preparation of Development and Management Plans to the CSC and providing environmental monitoring for adherence to the CTDEP's General Permit for Construction Activities and environmental requirements set forth in the Client's contract documents and specifications.

Environmental Evaluations and Regulatory Permitting, Wind Farm, Colebrook, Connecticut

Project Manager for environmental considerations associated with the development of Connecticut's first commercial wind farm in northwest Connecticut. Responsibilities included overseeing due diligence, natural resource studies and environmental permitting activities. The 3.2 MW project involved extensive evaluations of wetland and other natural resources, flora and fauna studies, sound studies, flicker analyses, visual evaluations and expert testimony at the local and state level, including multiple CSC hearings. Mike assisted this client in preparing the Development and Management Plan and pre-construction coordination efforts.

Regulatory Permitting, Barbour Hill Substation Modifications, South Windsor, Connecticut

Project Manager responsible for the preparation of a Petition to the CSC for a determination that no Certificate of Environmental Compatibility and Public Need was required for the proposed modifications to the Barbour Hill Substation in South Windsor, Connecticut. The project included the replacement and expansion of an existing facility and the modification of line interconnections. Responsibilities included conducting natural resource inventories, wetland delineation, noise study, soil and groundwater sampling, property survey, preparation of site/civil design drawings, supporting graphics, photo-simulations, and local and state permit documents. Mike also supported his Client during the contractor selection process and developed a site-wide soil and water management plan for implementation during construction activities.

Environmental Impact Evaluation for Great Path Academy , Manchester, CT

Project Manager of an Environmental Impact Evaluation for expansion of a middle-college magnet high school serving eight member communities and operating within existing infrastructure at Manchester Community College. The project included a new free-standing facility on the campus to house the school and expand parking to accommodate 500 additional vehicles, enabling enrollment to increase from 75 to 300 students. Services included preparation of the EIE in accordance with CEPA to evaluate the project's associated potential environmental, social and economic impacts. The comprehensive document, distributed for public review and comment, assessed multiple locations for parking and building facilities within the MCC campus for parameters including: hydrology, traffic, visual impact on the surrounding community, energy consumption, and impacts to wildlife and habitat, potential historic and archaeological resources, forested areas, and a State-designated Greenway bike path. The result of the process was securing a Finding of No Significant Impact.

Employment History

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Vanasse Hangen Brustlin, Inc., 54 Tuttle Place, Middletown, Connecticut
Director, Environmental Services May 1997 to January 2012
Atlantic Environmental Services, Inc./GEI Consultants, Colchester, Connecticut
Project Manager/Team Leader, January 1991 to May 1997

Education

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University of Connecticut, B.S. Natural Resources Management,
December 1990
Stonehill College, B.A. Marketing, May 1981
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**Certifications/
Licenses**

Licensed Environmental Professional, State of Connecticut,
LEP No. 345
OSHA Hazardous Waste Operations and Emergency Response
(HAZWOPER) Training (29 CFR 1910.120)

Manuel J. Vicente, Founder and President, created Homeland Towers' unique approach to wireless siting after working as an executive in the wireless industry for more than ten years. Homeland Towers specializes in designing custom solutions for difficult wireless infrastructure siting scenarios and enjoys a reputation for successfully balancing the diverse needs of the interested parties. Starting his career with Sprint PCS, Mr. Vicente was involved in developing and launching the first all digital CDMA network in the nation. He has managed the development of over four thousand telecommunications facilities in his career and has been involved in the development of new wireless delivery technologies, including in-building systems and DAS (Distributed Antenna Systems). Mr. Vicente held several positions at Nextel Communications, ending his tenure as Regional Director of Site Development responsible for overall management and long-term planning for site acquisition, development, and construction of their Northeast wireless network. A graduate of Pace University School of Law and State University of New York at Oneonta, he remains dedicated to developing effective solutions for meaningful infrastructure that addresses communication needs while minimizing impact on surrounding environment.

Raymond M. Vergati

22 Shelter Rock Lane ♦ Danbury, CT 06810 ♦ (203) 297-6345

Management Professional: Telecommunications Industry *Project Management / Site Acquisition & Zoning / Consulting*

Qualifications: Multi-faceted, results focused professional offering a wealth of knowledge, contacts and experience in the wireless telecommunications industry. A strategic decision maker with the ability to solve problems, negotiate contracts, network, build teams and effectively communicate direction.

Professional Experience

Homeland Towers, LLC – Danbury, CT November 2011 – present
Site Development Manager/Consultant
Responsible for development of new tower sites throughout New York and Connecticut which includes leasing, zoning and construction management. Work closely with municipalities and wireless carriers to identify coverage deficiencies and provide smart solutions through thoughtful siting of wireless infrastructure.

HPC Development, LLC – Danbury, CT April 2008 – present
Program Manager
Responsible for business development, budgeting and marketing in the New England region. Effectively manage site development projects including full turnkey efforts throughout the northeast.

Vergati & Associates, LLC – Northford, CT September 2004 – April 2008
Owner

General Dynamics Market Manager- CT/NY December 2007- April 2008
Effectively managed production performance of all site acquisition, zoning and construction vendors supporting Sprint's network build out in Connecticut and Lower Hudson Valley New York. Tasked fully in managing financial budgets and achieving financial targets by managing multiple contracts in market totaling over \$10m. Responsible for deployment meetings, implementing a project plan, setting project goals/deadlines and evaluating all staff and vendor performance.

Real Estate and Zoning Consultant September 2004- December 2007
Consultant to wireless carriers for all site acquisition and zoning needs. Secured contract with General Dynamics to support the Sprint Nextel NY/CT/MA build out. Engaged to exclusively work high profile and critical sites where prior site acquisition firms had been unsuccessful. Consistently met client quotas, time lines and performance expectations on numerous site acquisition and zoning milestones.

Optasite, Inc. f/k/a Pinnacle Site Development - Glastonbury, CT

Project Director

October 2001-September 2004

Successfully managed a team of 17 site acquisition and zoning specialists in the build out of 300+ sites throughout New England for multiple PCS companies. Developed solid relationships and knowledge of all wireless site builds through day to day interface with RF, Construction, A & E, Environmental and Legal.

Advanced Radio Telecom – Bellevue, WA

March 1997 – April 2001

Regional Real Estate Manager, Northeast

Oversaw the production performance of 4 project managers and 16 consultants engaged in the acquisition of rooftop lease/license agreements, permits and all zoning processes required to deploy 100 Mbps, wireless (39 GHz and 23 GHz) networks in New York, Boston, Philadelphia, and Washington, DC. Directed all market analysis, including target building selection and search area assessments for approximately 800 sites. Personally negotiated all carrier hotel co-location and interconnect agreements while working closely with building owners in positioning Advanced Radio Telecom's value proposition.

Project Manager

Maintained approximately 500 microwave sites across the country. Charged with full P&L responsibility for maintaining revenues of \$600k in FY1999 by direct sales of wireless broadband. Successful in overseeing Legacy budget and reducing monthly costs by \$70k through introduction of competitive contractor bids, de-installing double coverage license sites not needed per FCC rules, warehouse closings, reconfiguration of network monitoring and material management. Tasked with securing 42 microwave licenses acquired by company and met all FCC construction deadlines.

Cable & Wireless – Glastonbury, CT

March 1995 March 1997

Sales Executive/Consultant

Sold decision makers on switched and dedicated voice/data applications. Managed an account base and was successful in achieving 100% retention of base. Tasked with training new hires in market development and account management. Received special recognition as #1 Sales Executive in the country for successfully penetrating and selling local line service in the Connecticut market. Promoted to next level for achieving over 100% sales quota for the year.

MCI Communications – Wethersfield, CT

June 1993- March 1995

Account Executive

Successful in obtaining customer referrals and prospecting to capture long distance service from commercial accounts billing \$12k to \$250k annually. Responsible for achieving monthly sales quotas while continuing sales training to increase close ratios, funnel management, product and technical knowledge.

Vergati & Malik, Inc. – New Haven, CT

September 1990 – June 1993

d/b/a Off the Wall Concepts

Founder/Partner

Successfully developed a new concept in advertising and formed a corporation to market it under the name of Off the Wall Concepts. Secured local and national clients as advertisers on restroom walls of over 200 restaurants and venues throughout Connecticut and Massachusetts. Created revenue channels for

companies who purchased the Off the Wall business plan. Developed and implemented long term business strategy including the hiring and training of a sales and graphic design team.

Education:

Seton Hall University – South Orange, NJ
W. Paul Stillman School of Business
Bachelor of Science Degree, May 1989
Major in Finance with Minor in Spanish

ATTACHMENT 2

STATE OF CONNECTICUT
CONNECTICUT SITING COUNCIL

IN RE:

APPLICATION OF HOMELAND TOWERS,
LLC (HOMELAND) AND NEW CINGULAR
WIRELESS PCS, LLC (AT&T) FOR A
CERTIFICATE OF ENVIRONMENTAL
COMPATIBILITY AND PUBLIC NEED FOR
THE CONSTRUCTION, MAINTENANCE AND
OPERATION OF A TELECOMMUNICATIONS
TOWER FACILITY IN
WASHINGTON DEPOT, CONNECTICUT

DOCKET NO. 441

November 13, 2013

AFFIDAVIT OF

Jon Longobardi of Graphix Edge, being duly sworn, deposes and
states that:

1. I am over the eighteen years of age and understand the obligation of making a statement under oath.
2. On November 13, 2013, I supervised and witnessed the posting of a notice sign at 10 Blackville Road, Washington Depot, Connecticut, noticing the Connecticut Siting Council application filing and the details of the hearing for Docket 441 scheduled on December 3, 2013.
3. The attached photographs were taken of the posted notice signs evidencing the installation of same at each location.

Signed: Jon Longobardi

Print: Jon Longobardi

Subscribed and sworn to before me
this 13 day of November, 2013

Samuel A. King
Notary Public
My commission expires: 2018





11-13-13

PUBLIC MEETING
The following information is for your information regarding the proposed project. The project is located at the intersection of State Route 100 and State Route 100. The project is a proposed development of a new building. The project is located on a 10-acre parcel. The project is a proposed development of a new building. The project is located on a 10-acre parcel.

PUBLIC NOTICE

Homeland Towers, LLC (Homeland) and New Cingular Wireless PCS, LLC (AT&T) filed an application with the Connecticut Siting Council (Council) for construction of a telecommunications facility on this site. The maximum height of said facility shall not exceed 140' AGL or as otherwise determined by the Council. The Council will hold a public hearing on Tuesday, December 3, 2013 at the Bryan Memorial Town Hall, 2 Bryan Plaza, Washington Depot, Connecticut beginning at 3:00 pm and continued at 7:00 pm. A copy of the application can be reviewed at Town Hall or at the Council offices in New Britain, Connecticut. For more information, please contact the Council by telephone at 860-827-2935, electronically at www.ct.gov/csc, or by mail at 10 Franklin Square, New Britain, Connecticut 06051.

11-13-13

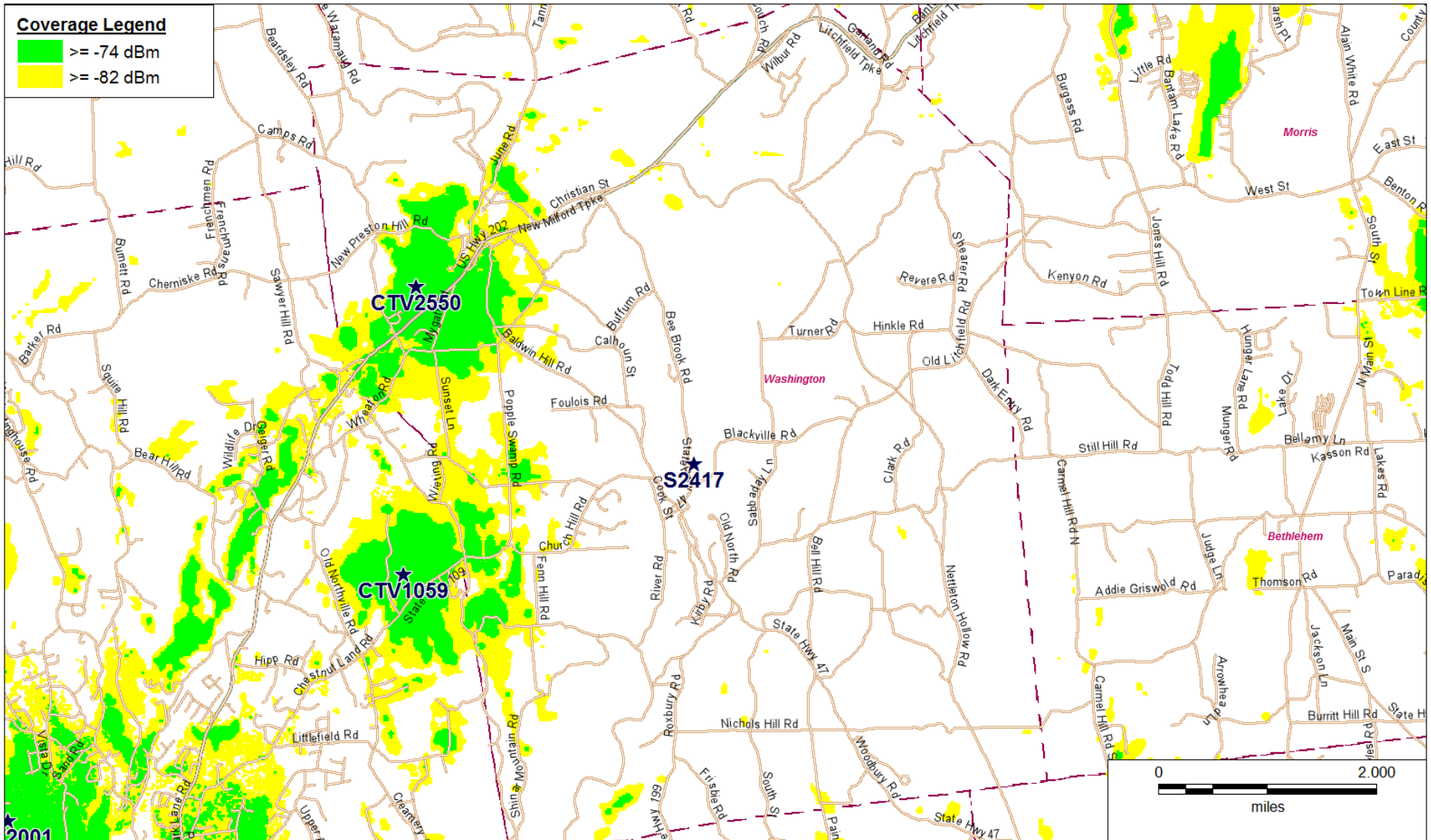
11-13-13



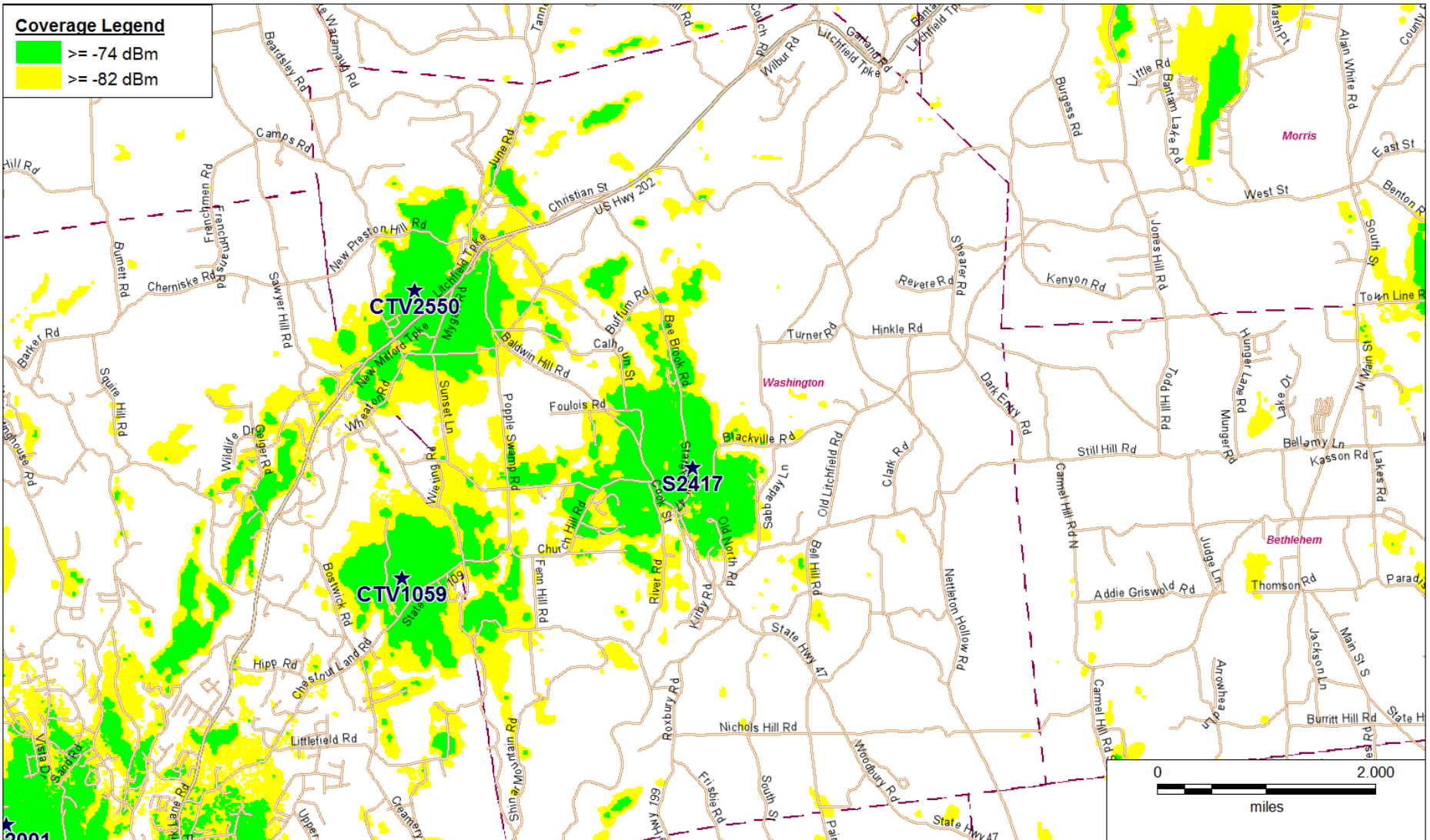
ATTACHMENT 3

Docket No. 441
Public Hearing Presentation
December 3, 2013 – 7:00pm





AT&T Current Coverage at Washington, CT

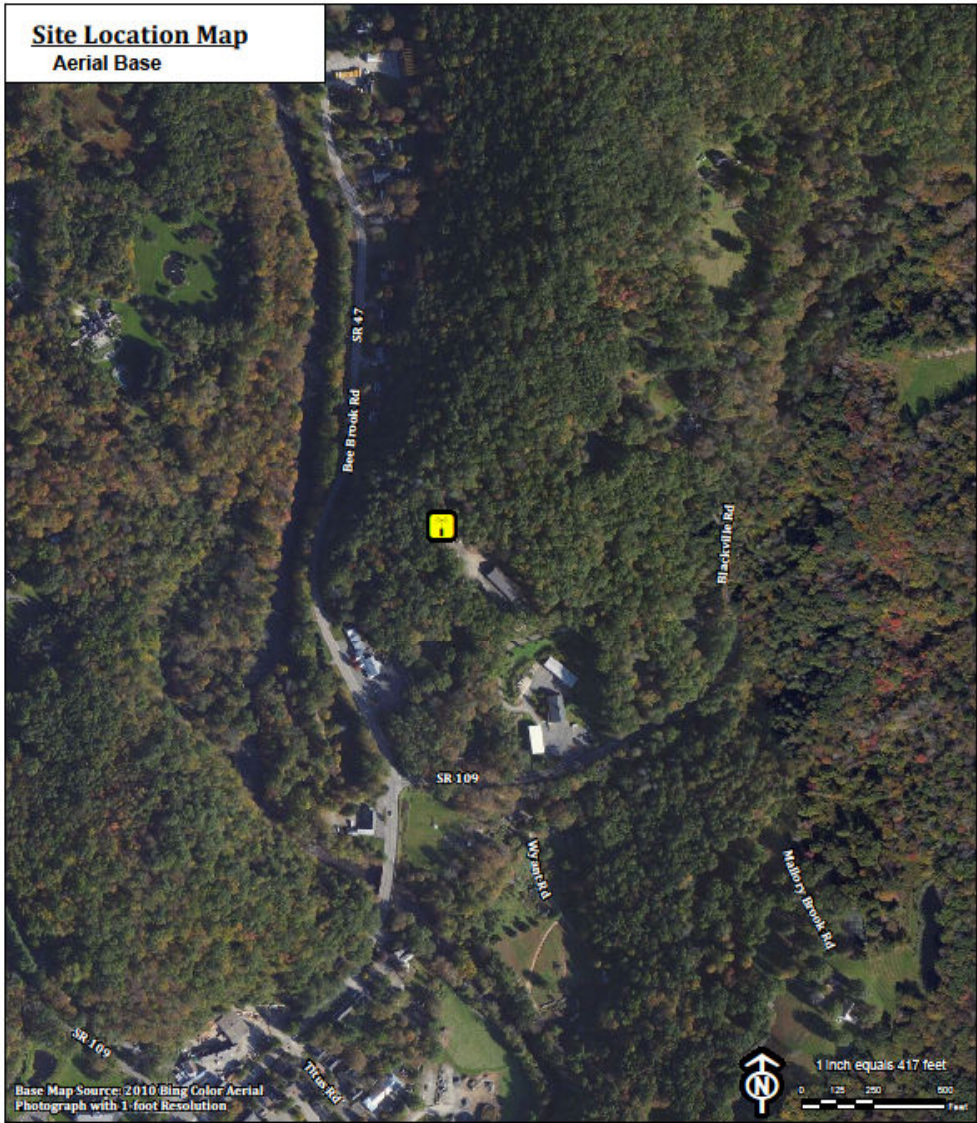


AT&T Proposed Coverage at Washington, CT with S2417 @ 126' AGL

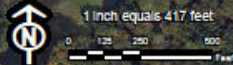
Population Coverage (2008 Census Block Data)					
Washington Total Population	Population covered by existing sites (=> -82 dBm)	Population not covered (< -82 dBm)	Population that will be covered with the proposed site (=> -82 dBm)	Remaining Population not covered (< -82 dBm)	Proposed Population Gain
3,670	408	3,262	819	2,851	411

Street Name	Average Daily Traffic (2012)
Green Hill Rd., Washington, CT	4,500
Calhoun St., Washington, CT	3,900
Bee Brook Rd., Washington, CT	3,800
Blackville Rd., Washington, CT	2,000
Church Hill Rd., Washington, CT	2,000

Site Location Map
Aerial Base



Base Map Source: 2010 Bing Color Aerial Photograph with 1-foot Resolution

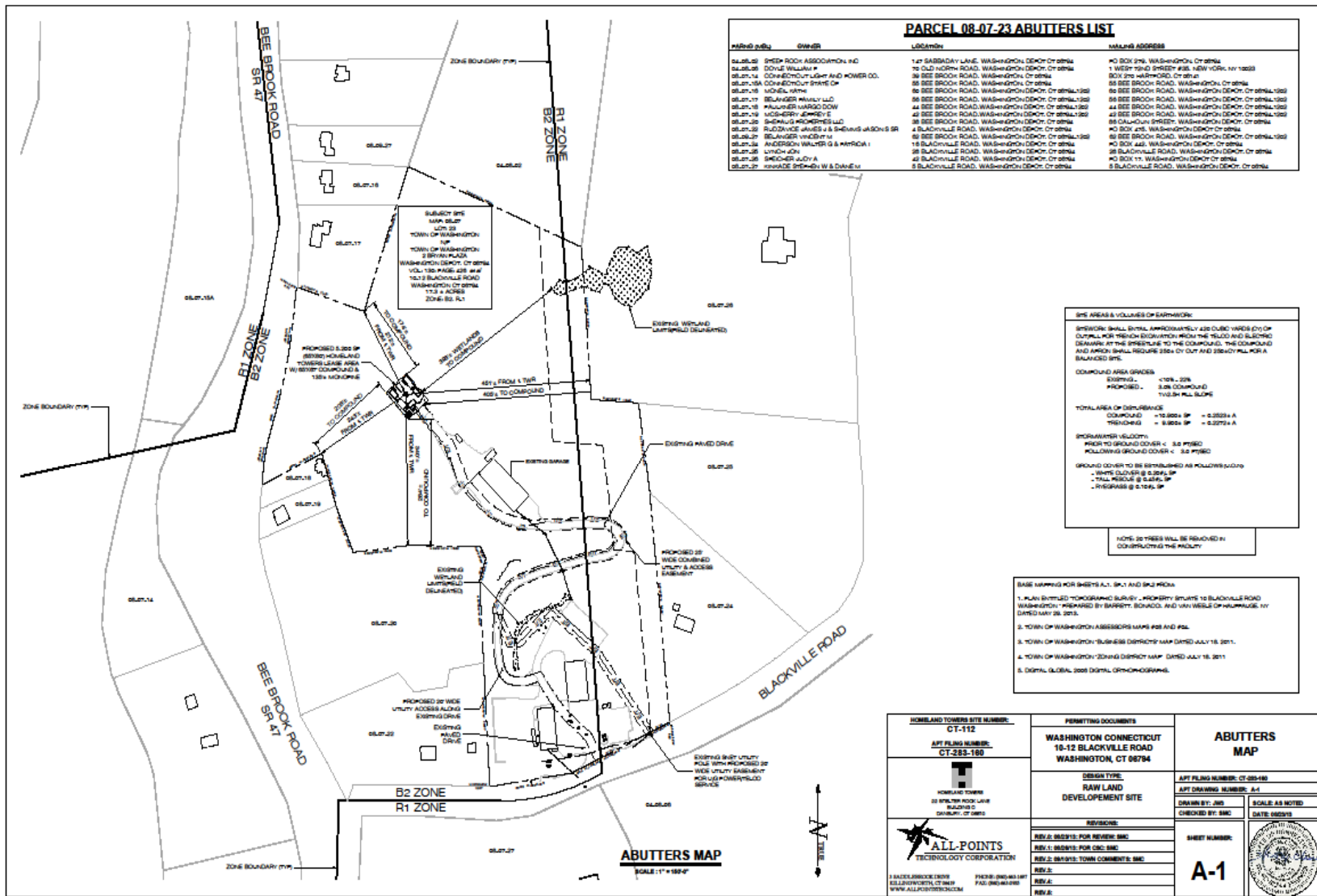


Legend
 Proposed Tower Location

10 Blackville Road
Washington, Connecticut

Monday, August 26, 2013





PARCEL 08-07-23 ABUTTERS LIST

PARCEL ID	OWNER	LOCATION	MAILING ADDRESS
08-07-23	DEEP ROCK ASSOCIATION, INC	127 SABBADAY LANE, WASHINGTON, CT 06094	PO BOX 274, WASHINGTON, CT 06094
08-07-28	DOYLE WILLIAM P	70 OLD NORTH ROAD, WASHINGTON, CT 06094	1 WEST 15TH STREET #28, NEW YORK, NY 10003
08-07-14	CONNECTION ENERGY AND POWER CO.	38 BEE BROOK ROAD, WASHINGTON, CT 06094	300 2ND AVENUE, CT 06094
08-07-15A	CONNECTION ENERGY OF	66 BEE BROOK ROAD, WASHINGTON, CT 06094	66 BEE BROOK ROAD, WASHINGTON, CT 06094
08-07-15	MIDDEL, NINA	66 BEE BROOK ROAD, WASHINGTON, CT 06094	66 BEE BROOK ROAD, WASHINGTON, CT 06094
08-07-17	BLANCKER MARVY LLC	66 BEE BROOK ROAD, WASHINGTON, CT 06094	66 BEE BROOK ROAD, WASHINGTON, CT 06094
08-07-18	BLANCKER MARGO DOW	44 BEE BROOK ROAD, WASHINGTON, CT 06094	44 BEE BROOK ROAD, WASHINGTON, CT 06094
08-07-19	WAGNERBY JEMMYE E	42 BEE BROOK ROAD, WASHINGTON, CT 06094	42 BEE BROOK ROAD, WASHINGTON, CT 06094
08-07-20	SHAWLUS PROPERTIES LLC	38 BEE BROOK ROAD, WASHINGTON, CT 06094	38 BEE BROOK ROAD, WASHINGTON, CT 06094
08-07-29	BLVD DRIVE SHOPS 2 & 3, BLVD DRIVE SHOPS SR	2 BLACKVILLE ROAD, WASHINGTON, CT 06094	PO BOX 426, WASHINGTON, CT 06094
08-07-30	BLANCKER VINCENT M	66 BEE BROOK ROAD, WASHINGTON, CT 06094	66 BEE BROOK ROAD, WASHINGTON, CT 06094
08-07-36	AUGERSON WALTER G & MERRICA I	18 BLACKVILLE ROAD, WASHINGTON, CT 06094	PO BOX 442, WASHINGTON, CT 06094
08-07-38	WYCHOWSKI	38 BLACKVILLE ROAD, WASHINGTON, CT 06094	38 BLACKVILLE ROAD, WASHINGTON, CT 06094
08-07-39	SHEDDEN JUDY A	43 BLACKVILLE ROAD, WASHINGTON, CT 06094	PO BOX 11, WASHINGTON, CT 06094
08-07-37	WAGNERBY JEMMYE W & DANIEL	8 BLACKVILLE ROAD, WASHINGTON, CT 06094	8 BLACKVILLE ROAD, WASHINGTON, CT 06094

SITE AREAS & VOLUMES OF EARTHWORK

EXISTING: 84,111 CUBIC YARDS APPROXIMATELY 426 CUBIC YARDS CUT OF CUT/FILL FOR 18" HIGH EARTHWORK FROM THE 18" HIGH AND 18" HIGH DEMARKER AT THE PRELIMINARY TO THE COMPOUND. THE COMPOUND AND APPROX 18" SHALL REQUIRE 2500 CY CUT AND 2500 CY FILL FOR A BALANCED SITE.

COMPOUND AREA GRADES

EXISTING: -1.0% - 2.0%
 PROPOSED: 3.0% COMPOUND
 1/32" PER 100' SLOPE

TOTAL AREA OF DISTURBANCE

COMPOUND: -15,000 SF = 0.3329 A
 TREES: 8,000 SF = 0.1778 A

GROUNDWATER VELOCITY

PRELIMINARY TO GROUND COVER: 3.0 PSYD
 FOLLOWING GROUND COVER: 3.0 PSYD

GROUND COVER TO BE CONSIDERED AS FOLLOWING VELOCITY

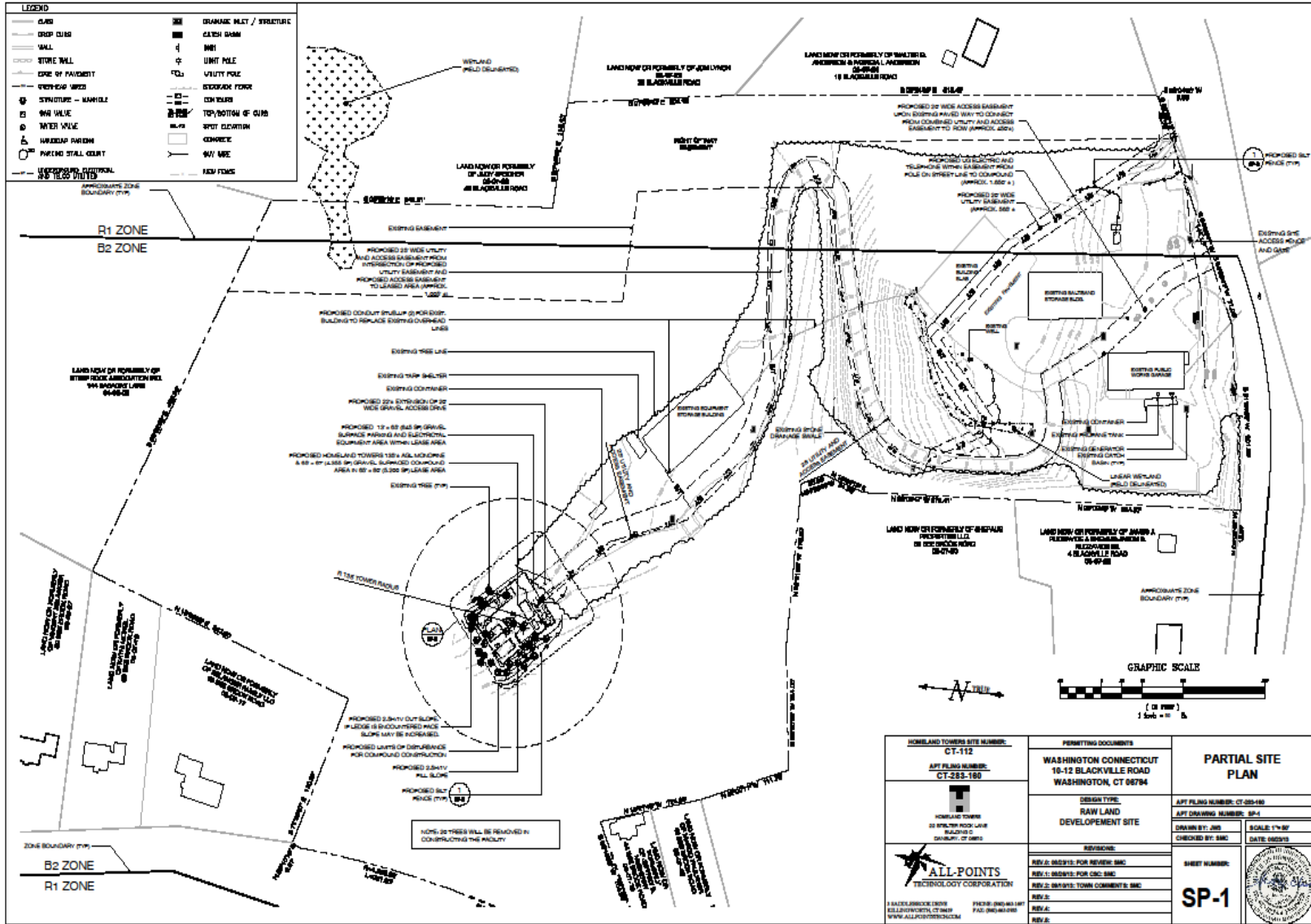
- 18" HIGH COVER @ 3.0% SLOPE
- FILL, FILL @ 3.0% SLOPE
- PROPOSED @ 3.0% SLOPE

NOTE: 20 TREES WILL BE REMOVED IN CONSTRUCTING THE FACILITY

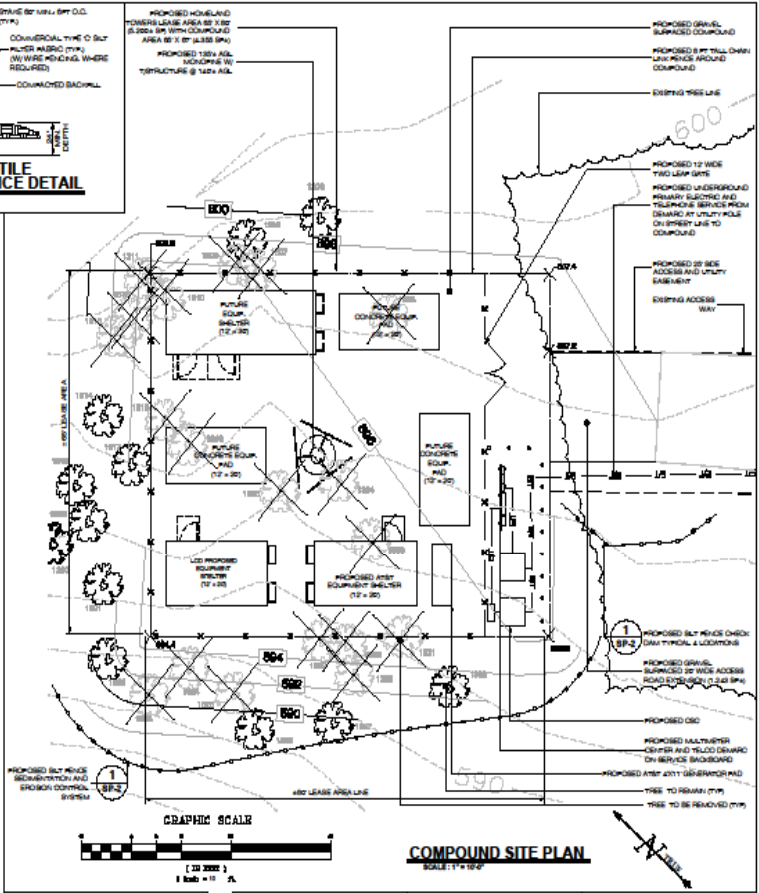
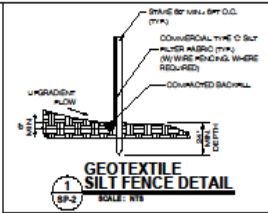
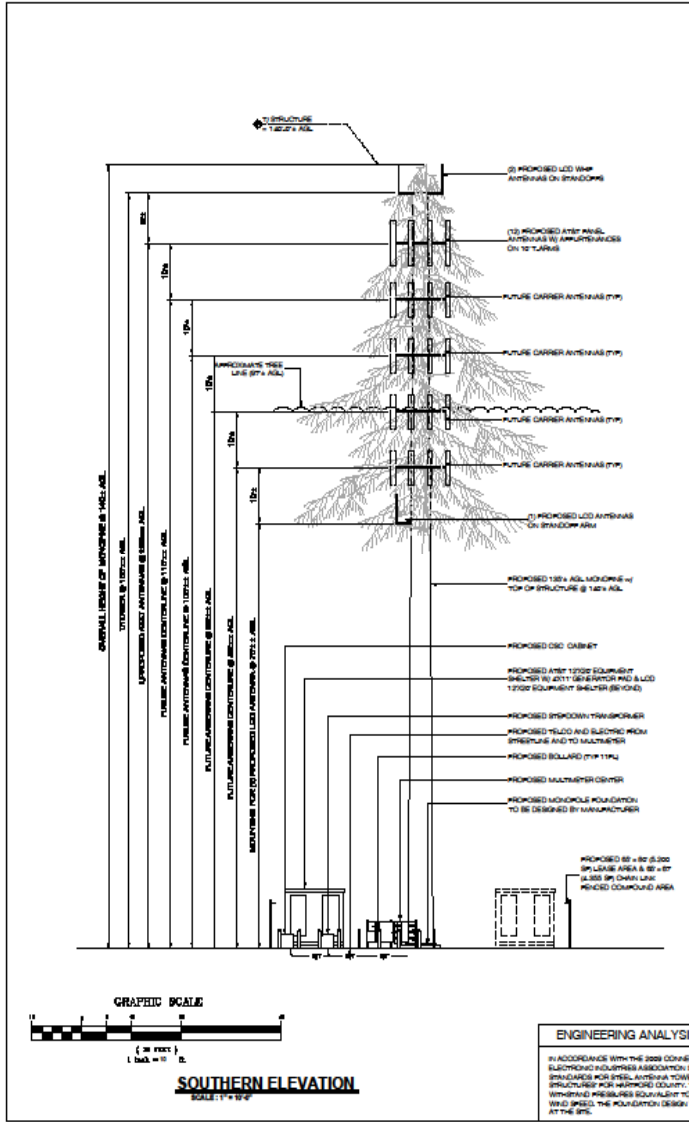
- BASE MAPPING FOR SHEETS A-1, B-1 AND B-2 PLOTTED**
1. PLAN SHEETED TOPOGRAPHIC SURVEY - PROPERTY SURVEY TO BLACKVILLE ROAD WASHINGTON, PREPARED BY BARRITT, BOYD, AND VAN WELLES OF PALMISTON, NY DATED MAY 28, 2013.
 2. TOWN OF WASHINGTON ASSESSORS MAPS #28 AND #29.
 3. TOWN OF WASHINGTON BUSINESS DISTRICT MAP DATED JULY 18, 2011.
 4. TOWN OF WASHINGTON ZONING DISTRICT MAP DATED JULY 18, 2011.
 5. DIGITAL GLOBAL 2008 DIGITAL ORTHOPHOTOGRAPH.

<p>HOMELAND TOWNS SITE NUMBER: CT-112</p> <p>APT FILING NUMBER: CT-283-180</p> <p>HOMELAND TOWNS 20 BEEBROOK ROAD BURLINGTON DANBURY, CT 06813</p> <p>ALL-POINTS TECHNOLOGY CORPORATION</p> <p>1 BATTLEBROOK DRIVE BELLINGHAM, CT 06106 WWW.ALLPOINTSINC.COM</p> <p>PHONE: (860) 663-1800 FAX: (860) 663-1800</p>	<p>PERMITTING DOCUMENTS</p> <p>WASHINGTON CONNECTICUT 18-12 BLACKVILLE ROAD WASHINGTON, CT 06794</p> <p>DESIGN TYPE: RAW LAND DEVELOPMENT SITE</p> <p>REVISIONS:</p> <p>REV. 1: SHEETS FOR REVIEW, INC REV. 2: SHEETS FOR CDD, INC REV. 3: SHEETS TOWN COMMENTS, INC REV. 4: REV. 5:</p>	<p>ABUTTERS MAP</p> <p>APT FILING NUMBER: CT-283-180 APT DRAWING NUMBER: A-1</p> <p>DRAWN BY: JMS CHECKED BY: BNC SHEET NUMBER: A-1</p> <p>SCALE: AS NOTED DATE: 08/15/2013</p> <p>SEAL</p>
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LEGEND			
[Symbol]	CLUB	[Symbol]	URBAN WLT / STRUCTURE
[Symbol]	DEEP CLUB	[Symbol]	GREEN DAM
[Symbol]	WALL	[Symbol]	WELL
[Symbol]	STONE WALL	[Symbol]	UTILITY POLE
[Symbol]	EDGE OF PAVEMENT	[Symbol]	SEWERAGE TOWER
[Symbol]	STREETCROSSING	[Symbol]	CONCRETE
[Symbol]	STRUCTURE - MARSH	[Symbol]	TOP/BOTTOM OF CURB
[Symbol]	WATER WALE	[Symbol]	SPOT ELEVATION
[Symbol]	WATER WALE	[Symbol]	CONCRETE
[Symbol]	HARDTOP PARKING	[Symbol]	NEW FENCE
[Symbol]	PARKING STALL COURT		
[Symbol]	UNDEVELOPED NATURAL WETLAND		
[Symbol]	APPROXIMATE ZONE BOUNDARY (TYP)		



HONOLAND TOWERS SITE NUMBER: CT-112 APT FILING NUMBER: CT-283-190	PERMITTING DOCUMENTS WASHINGTON CONNECTICUT 10-12 BLACKVILLE ROAD WASHINGTON, CT 06784	PARTIAL SITE PLAN
	DESIGN TYPE: RAW LAND DEVELOPMENT SITE	APT FILING NUMBER: CT-284-190 APT DRAWING NUMBER: SP-1 DESIGNED BY: SMC CHECKED BY: SMC DATE: 08/20/19
 ALL-POINTS TECHNOLOGY CORPORATION 1 BACELAND DRIVE ELLENSDALE, CT 06039 WWW.ALLPOINTSCT.COM PHONE: (860) 649-1997 FAX: (860) 649-1998	REVISIONS: REV. 0: ISSUES FOR REVIEW: SMC REV. 1: ISSUES FOR C&C: SMC REV. 2: ISSUES: TOWN COMMENTS: SMC REV. 3: REV. 4: REV. 5:	SHEET NUMBER: SP-1



TREE REGISTER

#100 12" DAC	#102 12" DAC
#104 12" DAC	#106 8" DAC
#107 12" DAC	#109 8" DAC
#108 12" DAC	#110 8" P&S
#109 8" DAC	#111 8" P&S
#110 8" P&S	#112 8" P&S
#111 8" P&S	#113 12" DAC
#112 8" P&S	#114 22" DAC
#113 12" DAC	#115 8" P&S
#114 22" DAC	#116 18" DAC
#115 8" P&S	#117 8" DAC
#116 18" DAC	#118 8" DAC
#117 8" DAC	#119 8" P&S
#118 8" DAC	#120 12" DAC
#119 8" P&S	#121 12" DAC

HOMELAND TOWERS SITE NUMBER: CT-112
 APT FILING NUMBER: CT-283-188

 ALL-POINTS TECHNOLOGY CORPORATION
 1000 BRIDGE DRIVE, SUITE 200, NORTH CT 06106
 PHONE: (860) 401-1000 FAX: (860) 401-1000

PERMITTING DOCUMENTS
 WASHINGTON CONNECTICUT
 10-12 BLACKVILLE ROAD
 WASHINGTON, CT 06794
 DESIGN TYPE:
 RAW LAND DEVELOPMENT SITE
 REVISIONS:
 REV. 1: 08/11/18 FOR REVIEW: BAC
 REV. 2: 08/11/18 FOR CMC: BAC
 REV. 3: 08/11/18 TOWN COMMENTS: BAC
 REV. 4:
 REV. 5:

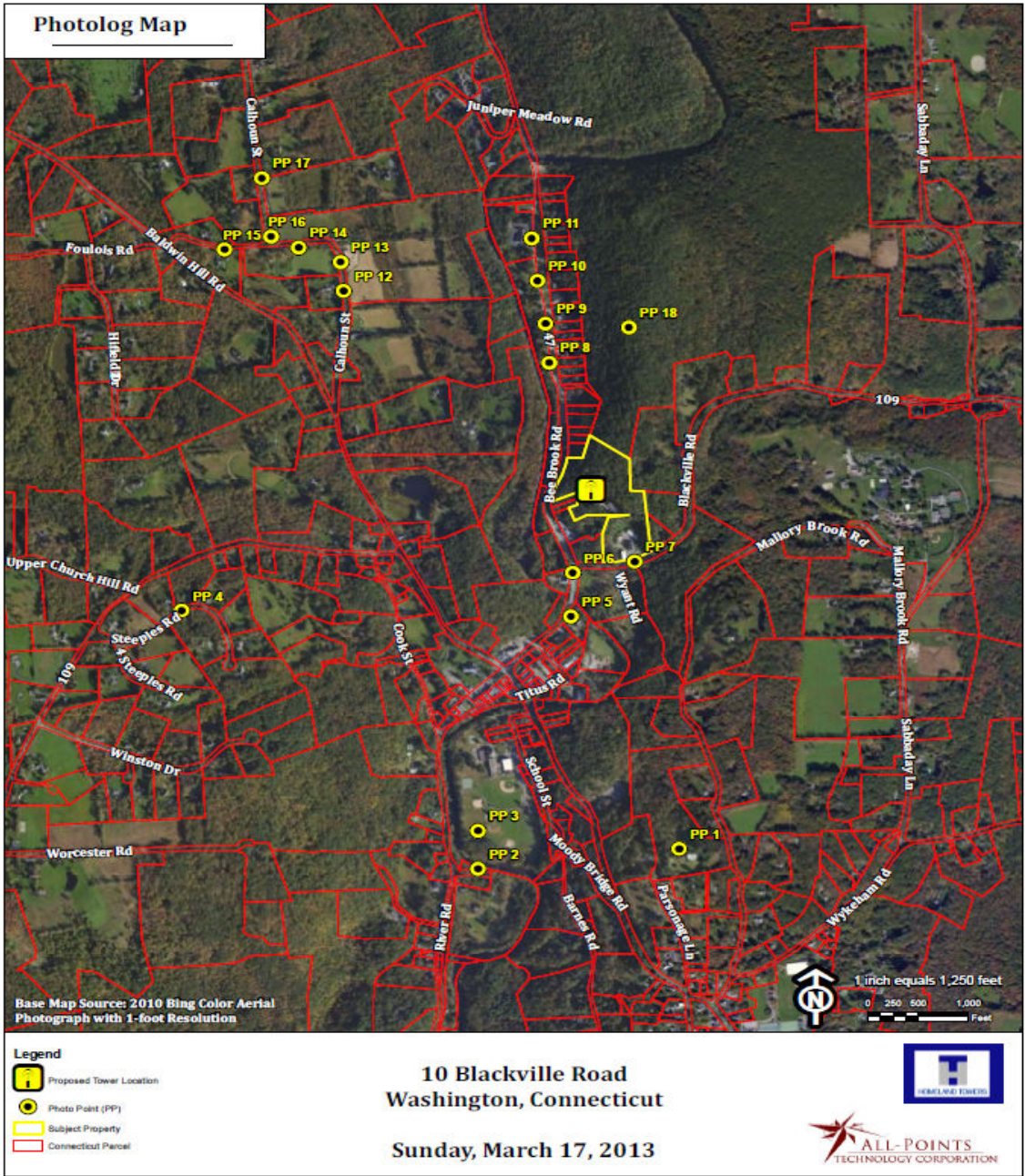
COMPOUND SITE PLAN AND TOWER ELEVATION
 APT FILING NUMBER: CT-283-188
 APT DRAWING NUMBER: SP-2
 DRAWN BY: JMS
 CHECKED BY: BAC
 SCALE: 1" = 10'
 DATE: 08/11/18
 SHEET NUMBER:
SP-2

ENGINEERING ANALYSIS AND CERTIFICATION
 IN ACCORDANCE WITH THE 2008 CONNECTICUT STATE BUILDING CODE AND THE ELECTRONIC INDUSTRIES ASSOCIATION (EIA) STANDARD STRUCTURAL REQUIREMENTS FOR PRESSURE ANTENNA TOWERS AND ANTENNA SUPPORT STRUCTURES FOR HAMPDEN COUNTY, THE TOWER WOULD BE DESIGNED TO WITHSTAND WINDS EQUIVALENT TO A WINDSPEED OF 140 MPH. WIND SPEED, THE FOUNDATION DESIGN WOULD BE BASED ON SOIL CONDITIONS AT THE SITE.

FCC OET Bulletin 65 formula:

$$S = \frac{2.56 * 1.64 * ERP}{4 * \pi * R^2}$$

Transmission Mode	Antenna Centerline AGL (ft)	Frequency (MHz)	Number of Channels	Effective Radiated Power per Channel (Watts)	Power Density (mW/cm ²)	Standard Limits (mW/cm ²)	% MPE (Uncontrolled/General Public)
AT&T UMTS	126	850	2	500.00	0.0005	0.5667	0.08%
AT&T UMTS	126	1900	2	500.00	0.0005	1	0.05%
AT&T LTE	126	700	2	500.00	0.0005	0.4667	0.10%
AT&T LTE	126	2100	2	500.00	0.0005	1	0.05%
Total							0.27%





SIMULATION

PHOTO	LOCATION	ORIENTATION	DISTANCE TO SITE	VISIBILITY
1	PARSONAGE LANE	NORTHWEST	+/- 0.79 MILE	SEASONAL



SIMULATION

PHOTO	LOCATION	ORIENTATION	DISTANCE TO SITE	VISIBILITY
3	WASHINGTON PRIMARY SCHOOL	NORTHEAST	+/- 0.76 MILE	YEAR ROUND



SIMULATION

PHOTO	LOCATION	ORIENTATION	DISTANCE TO SITE	VISIBILITY
5	BEE BROOK ROAD (STATE ROUTE 47)	NORTHEAST	+/- 0.28 MILE	YEAR ROUND



SIMULATION

PHOTO	LOCATION	ORIENTATION	DISTANCE TO SITE	VISIBILITY
6	INTERSECTION OF BEE BROOK ROAD (STATE ROUTE 47) AND BLACKVILLE ROAD (STATE ROUTE 109)	NORTH	+/- 0.18 MILE	YEAR ROUND



SIMULATION

PHOTO	LOCATION	ORIENTATION	DISTANCE TO SITE	VISIBILITY
7	BLACKVILLE ROAD (STATE ROUTE 109) ADJACENT TO HOST PROPERTY	NORTHWEST	+/- 0.17 MILE	SEASONAL



SIMULATION

PHOTO	LOCATION	ORIENTATION	DISTANCE TO SITE	VISIBILITY
8	BEE BROOK ROAD (STATE ROUTE 47)	SOUTHEAST	+/- 0.28 MILE	YEAR ROUND



SIMULATION

PHOTO	LOCATION	ORIENTATION	DISTANCE TO SITE	VISIBILITY
10	BEE BROOK ROAD (STATE ROUTE 47)	SOUTHEAST	+/- 0.46 MILE	YEAR ROUND

