TOWN OF NEW PALTZ SMALL CELL DEVELOPMENT

Mobile data trends and demand drivers

Smartphones generate 102x more data traffic
PER MONTH THAN A BASIC HANDSET

500%
INCREASE EXPECTANCY OF MOBILE DATA FROM 2016 TO 2021
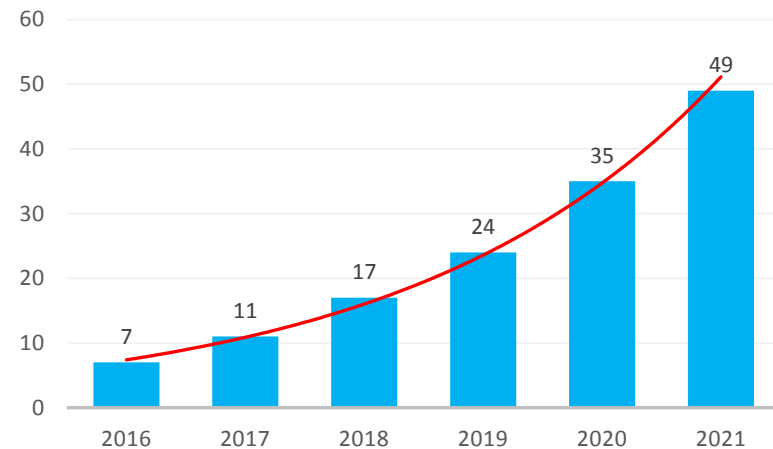
NEW DEVICES
52.4 MILLION ADDED TO THE MOBILE NETWORK

4.6 MILLION
CONNECTED WEARABLE DEVICES

64%
OF MOBILE DATA IS VIDEO

MOBILE DATA TRAFFIC (EB/MONTH)

Year	Value
2016	7
2017	11
2018	17
2019	24
2020	35
2021	49

U.S. MOBILE DATA IN 2016

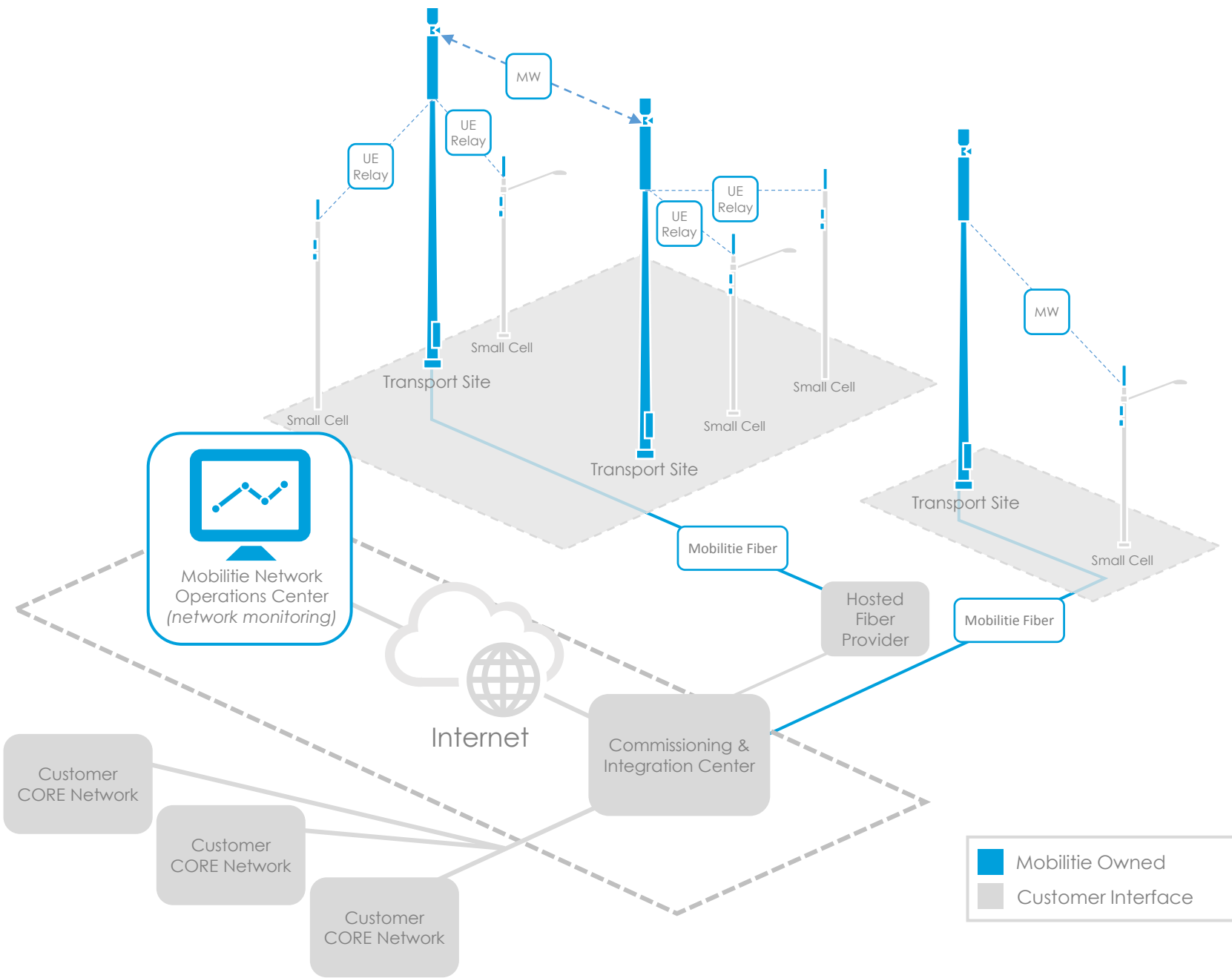**88%**
OF THE POPULATION ACCOUNTED FOR MOBILE USAGE

49%
OF THE HOUSEHOLDS WERE WIRELESS ONLY

Source: Cisco VNI Mobile, 2017

mobilitie®
intelligent infrastructure

MW

UE Relay

UE Relay

UE Relay

UE Relay

Small Cell

Transport Site

Small Cell

Small Cell

Transport Site

Small Cell

MW

Transport Site

Small Cell

Mobilitie Network Operations Center
(network monitoring)

Mobilitie Fiber

Hosted Fiber Provider

Mobilitie Fiber

Internet

Commissioning & Integration Center
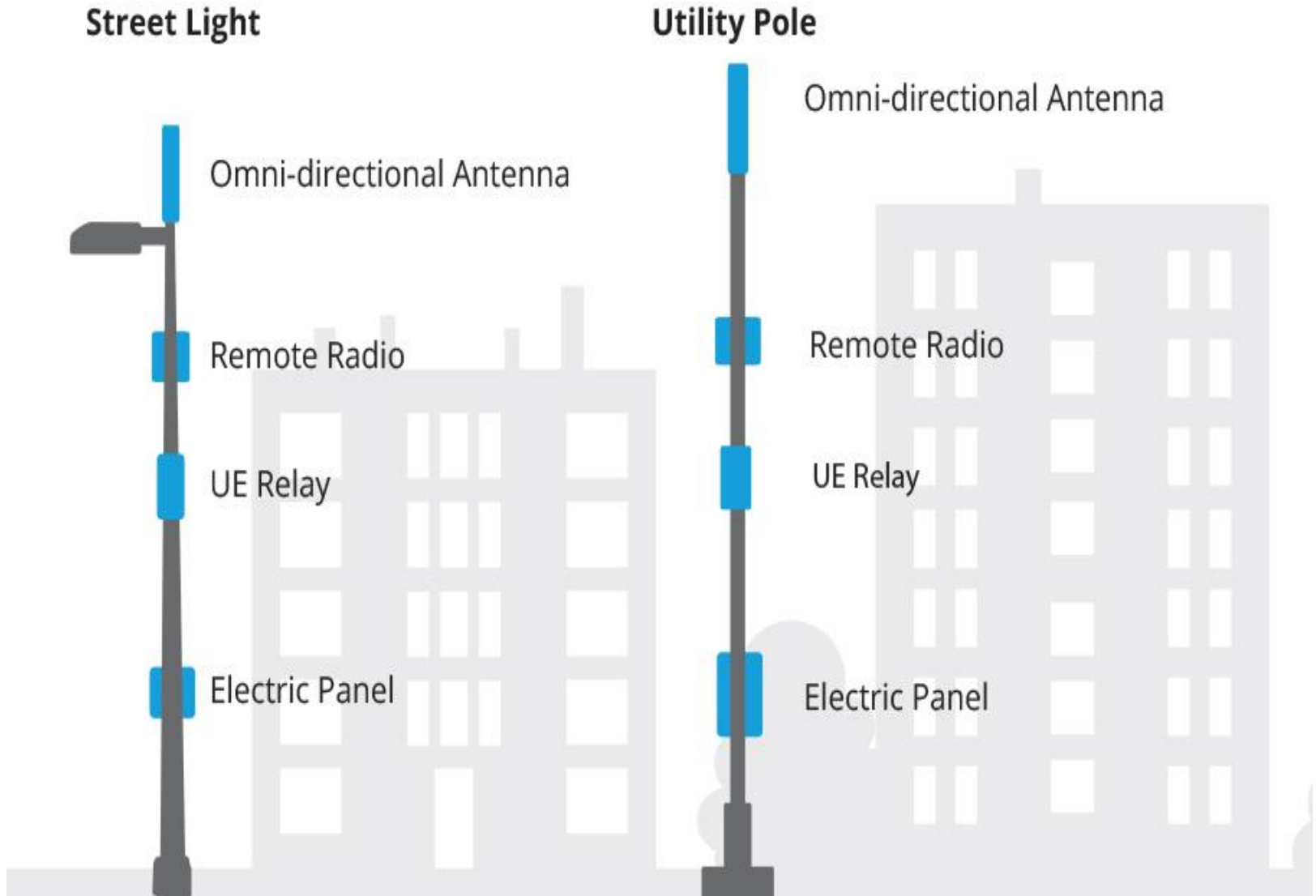
Customer CORE Network

Customer CORE Network

Customer CORE Network

Mobilitie Owned

Customer Interface

MOBILITIE SMALL CELL DESIGN

Street Light

Omni-directional Antenna

Remote Radio

UE Relay

Electric Panel

Utility Pole

Omni-directional Antenna

Remote Radio
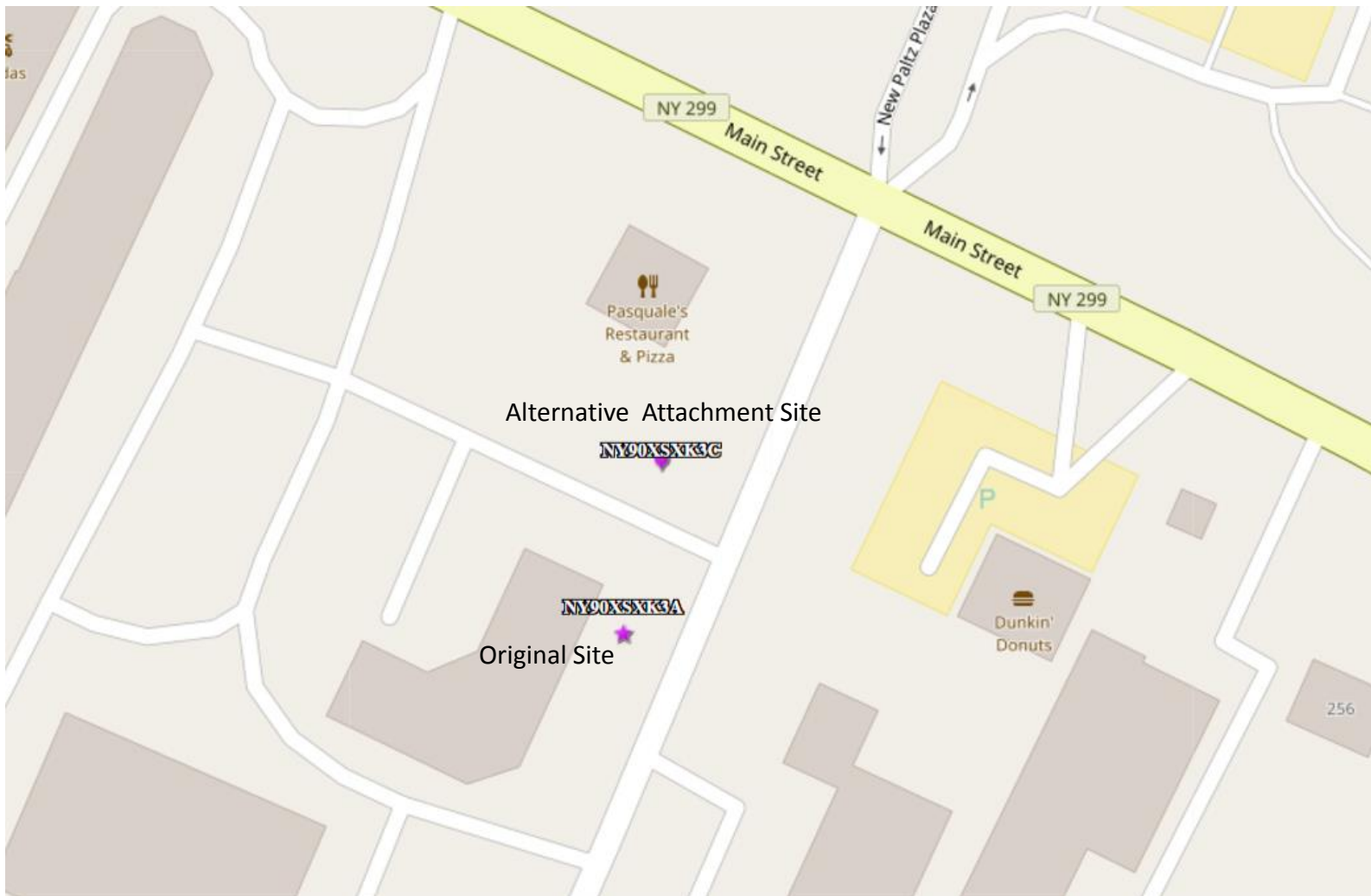
UE Relay

Electric Panel

mobilitie®
telecommunications infrastructure

MOBILITIE BUILT EXISTING BUILT SMALL CELL SITES

CHERRY HILL ROAD SMALL CELL OPTIONS

CHERRY HILL ROAD SMALL CELL OPTIONS

NY90XSXK3C
Alternative Attachment Site

NY90XSXK3A
Original Site

PROPRIETARY & CONFIDENTIAL

Installation of a new 31' foot wooden utility pole. Equipment would be attached to the pole and a 3' foot antenna on top.

CHERRY HILL ROAD ATTACHMENT (NY90XSXK3A)

Attach small cell equipment to existing utility pole at the corner of the entrance to the Shopping Center. 3' foot antenna on top.
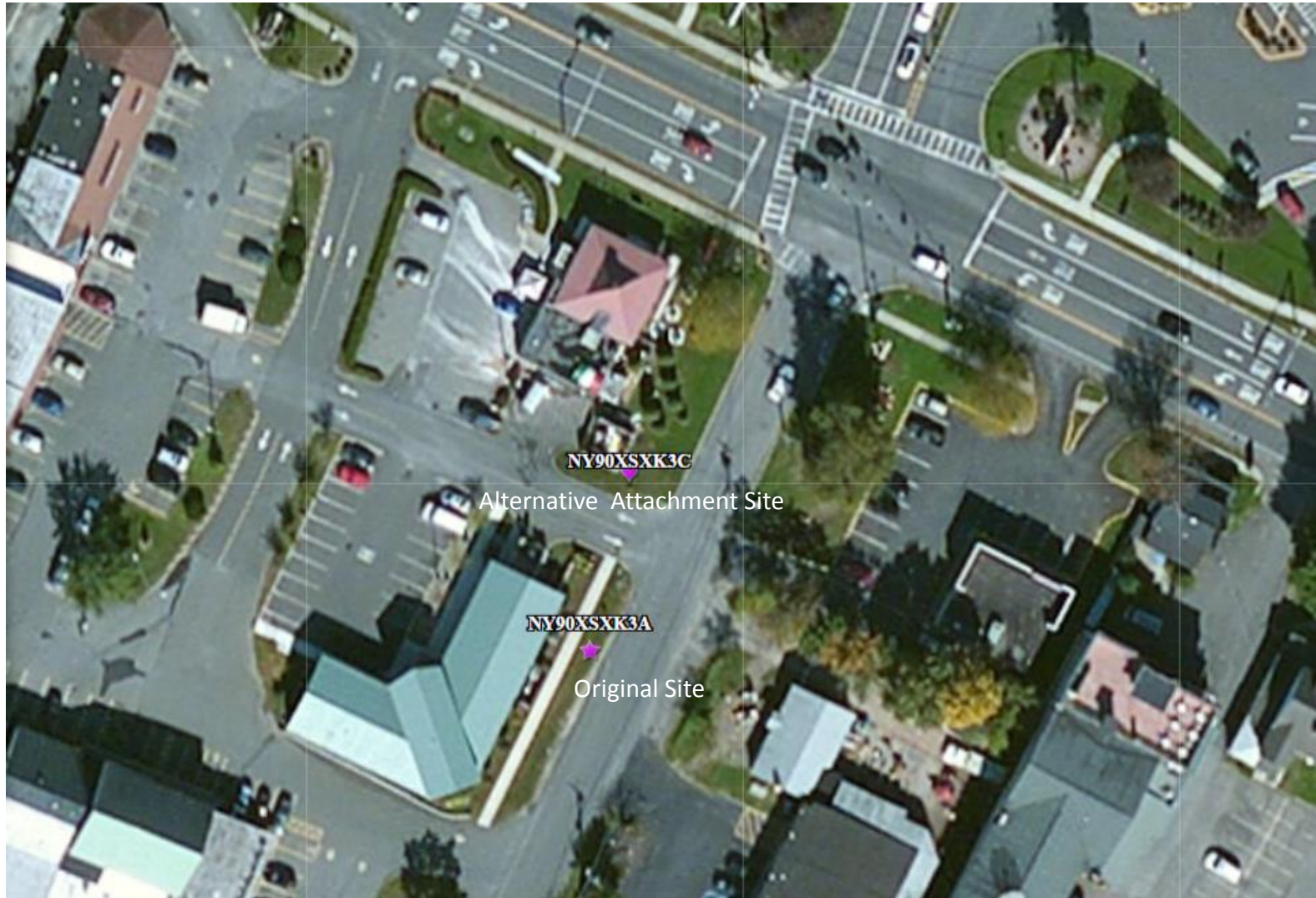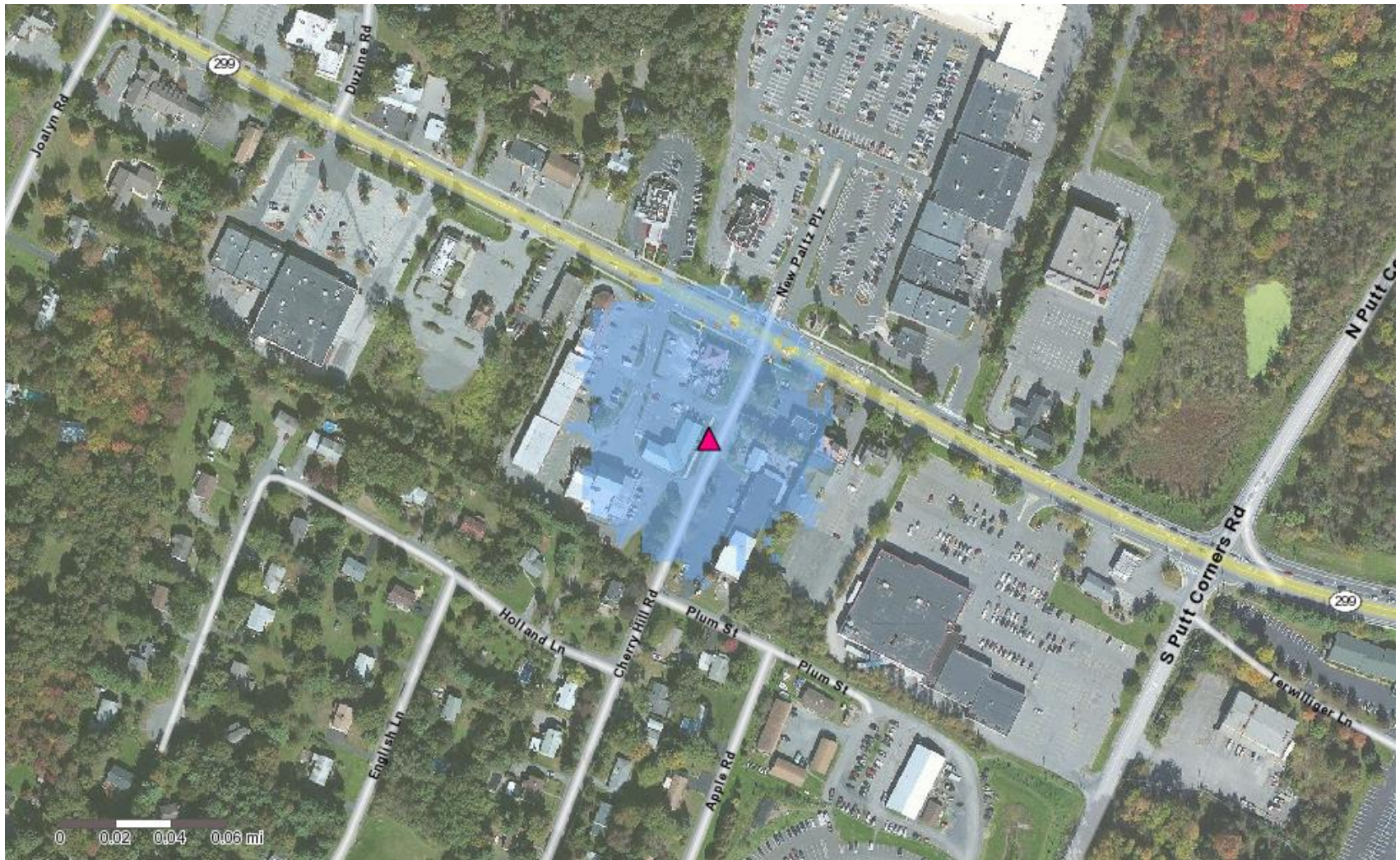
CHERRY HILL ROAD NEW POLE EQUIPMENT

MANUFACTURER: KMW
MODEL: FX-X-360-7-00T-ST
(OR APPROVED EQUAL)
HEIGHT: 30 IN
DIAMETER: 2.06 IN Ø
WEIGHT: 2.6 LBS

| KMW FX-X-360-7-00T-ST | SCALE N.T.S. | 1 |

MANUFACTURER: AIRSPAN
MODEL: iR460
(OR APPROVED EQUAL)
HEIGHT: 13 IN
DIAMETER: 7 IN Ø
WEIGHT: 8.8 LBS

ELEVATION   DETAIL B

| UE RELAY iR460-SPB-ST-1-P-0 | SCALE N.T.S. | 4 |

| NOT USED | SCALE N.T.S. | 7 |

MANUFACTURER: RAYCAP
MODEL: RSTAC-3112-P-120
HEIGHT: 9.25 IN
WIDTH: 9.5 IN
DEPTH: 3.81 IN
WEIGHT: 14 LBS

FRONT   BOTTOM

| RAYCAP RSTAC-3112-P-120 | SCALE N.T.S. | 10 |

MANUFACTURER: NOKIA
MODEL: FWHT B41 LP
(473531A A73737A A73736A)
(OR APPROVED EQUAL)
HEIGHT: 9.7 IN
WIDTH: 12.8 IN
DEPTH: 4.7 IN
WEIGHT: 17.2 LBS

PLAN

SIDE   FRONT   BACK

| NOKIA RADIO FWHT B41 LP | SCALE N.T.S. | 2 |

| NOT USED | SCALE N.T.S. | 5 |

| NOT USED | SCALE N.T.S. | 8 |

MANUFACTURER: SQUARE-D
MODEL: D221NRB
TYPE-3R DISCONNECT
(OR APPROVED EQUAL)
HEIGHT: 9.63 IN
WIDTH: 7.25 IN
DEPTH: 3.75 IN
WEIGHT: 4.52 LBS

PLAN

FRONT   SIDE

| NEMA TYPE-3R DISCONNECT | SCALE N.T.S. | 11 |

MANUFACTURER: NOKIA
MODEL: FMNA /472858A
HEIGHT: 5.83 IN
WIDTH: 5.91 IN
DEPTH: 0.79 IN
WEIGHT: 2.2 LBS

NOKIA   INTERFACE   STATIC

| NOKIA RADIO MOUNT | SCALE N.T.S. | 3 |

| NOT USED | SCALE N.T.S. | 6 |

MANUFACTURER: NOKIA
MODEL: FAWD /472932A
HEIGHT: 3.1 IN
DIAMETER: 2.4 IN Ø
WEIGHT: 0.3 LBS

CONNECTOR
N-TYPE MALE
ELEVATION

BOTTOM   PLAN

| NOKIA GPS ANTENNA | SCALE N.T.S. | 9 |

MANUFACTURER: MILBANK
MODEL: U4801-XL-5T9
(OR APPROVED EQUAL)
HEIGHT: 19 IN
WIDTH: 13 IN
DEPTH: 4.84 IN
WEIGHT: 21 LBS

PLAN

FRONT   SIDE

| MILBANK METER SOCKET | SCALE N.T.S. | 12 |

PROJECT NO:	ER600201
DRAWN BY:	M. VEST
CHECKED BY:	N. KINCAID

FOR LAND USE PERMIT

| A | 09.17.17 | FOR LAND USE PERMIT |

NY90X9KZ5C
9NYB005016
MIDLAND AVE &
YONKERS AVE
YONKERS, NY 10704
LIGHT POLE

SHEET TITLE
EQUIPMENT DETAILS

SHEET NUMBER
3.2

POTENTIAL COVERAGE AREA

Coverage area represents 75' foot pole. Coverage area could change based on new pole or attachment

About Mobilitie

SMALL CELLS

Indoor and outdoor Small Cell networks use Femtocell, Picocell, and Microcell technologies with combined radio heads to provide improved 3G, 4G, LTE, and Wi-Fi service to enterprises and real estate properties

TRANSPORT CONNECTIVITY

Wireless and Wireline solutions that provide high data bandwidth connectivity to boost throughput and capacity of new and existing networks

Wi-Fi

High-density Wi-Fi networks that provide ubiquitous internet access to all wireless enable mobile and fixed devices

OUR SOLUTIONS

DAS

Indoor and outdoor neutral host Distributed Antenna Systems that provide improved coverage and capacity for all wireless carriers at large venues and in the most challenging locations across the country

COMMUNICATION TOWERS

Multi-carrier communication towers that enable improved wireless service to carriers across their nationwide macro networks based on our industry leading Lease-to-Suit® model

COLOCATION MANAGEMENT

Our program allows wireless carriers to focus on their core business by having Mobilitie manage third party activity on tower sites

Sample Projects

MOBILITIE'S WIRELESS NETWORK
Takes Victory Lap at Churchill Downs

COLUMBUS BLUE JACKETS and MOBILITIE ANNOUNCE
Installation of High-Density Wi-Fi System at Nationwide Arena

WORLD'S LARGEST BROADCAST Wi-Fi NETWORK
Engineered, Owned and Operated by Mobilitie for MGM Resorts

THE NATIONAL SEPTEMBER 11 MEMORIAL & MUSEUM
at the World Trade Center Selects Mobilitie's Wireless Technology

mobilitie ®
telecommunications infrastructure

Paul Costa | NRE Permitting Manager
pcosta@mobilitie.com

594 Broadway, Suite 301| New York, NY 10012
917-656-9083 | Mobile
www.mobilitie.com