

PWSF-3-2016

CITY OF GAHANNA, OHIO
DEPARTMENT OF DEVELOPMENT
REQUEST FOR PERSONAL WIRELESS SERVICE FACILITIES ("PWSF")
PREVIOUSLY APPROVED CO-LOCATION
(Pursuant to City of Gahanna Codified Ordinance Chapter 1181
also known as City of Gahanna Personal Wireless Service
Facilities Ordinance ("PWSF Ordinance"))

Permit# 16040039 Bldg 16040068
Date 4/28/16
Tier _____

RECEIVED
APR 22 2016

BY: SW

INFORMATION (Please print or type)

Business Name:	<u>AT&T Mobility</u>	Phone Number:	<u>216 276-3331</u>
Contact Person:	<u>Ronald A. Gainer, Esq.</u>	Fax Number:	<u>440 918 0681</u>
Business Address:	<u>2515 Red Fox Pass</u>	Email:	<u>gainer@att.net</u>
	<u>Willoughby Mills, OH 44094</u>		
Agent Name:	<u>Ronald A. Gainer, Esq.</u>	Phone Number:	<u>216 276-3331</u>
Business Address:	<u>2515 Red Fox Pass</u>	Fax Number:	<u>440 918 0681</u>
	<u>Willoughby Mills, OH 44094</u>	Email:	<u>gainer@att.net</u>

24 Hour System Representative(s) (in order to be contacted):

Name	Business #	Mobile #	Email
#1 <u>Greg Thompson</u>	<u>Black & Veatch</u>	<u>412-298-8230</u>	_____
#2 <u>Larry Golonka</u>	<u>"</u>	<u>412-747-9620</u>	_____
#3 <u>Chris Nichol</u>	<u>"</u>	<u>913-458-6293</u>	_____

Is Co-Location on: ☒ a Mount ☐ the ground?

Location and Siting Information Antenna swap on existing cell tower located
at 981 East Johnston Rd.

Narrative Information (Section 1181.08.E) AT&T is upgrading an existing cell site
by swapping out antennas.

On behalf of AT&T Mobility and Black and Veatch (Applicant), I hereby acknowledge that I have reviewed the City of Gahanna Codified Ordinance Chapter 1181 and certify that to the best of my knowledge the above and all attached information is complete and correct and conforms to Chapter 1181, as of this 18 day of April, 2016.

Ronald A. Gainer
Ronald A. Gainer Agent
Name Title

STATE OF OHIO :
COUNTY OF Medina : ss.

Before me, a Notary Public in and for said State and County, personally appeared Ronald A. Gainer, (Name), on behalf of AT&T Mobility + Black + Veatch (Applicant), its Agent (Title), who acknowledged the signing of the foregoing Application, who states that this is the free act and will of the Applicant and that they are authorized by the Applicant to sign this Application.

IN WITNESS WHEREOF, I have hereunto signed my name and affixed my official seal on the 18 day of April, 2016.

Darcey L. Adams
Notary Public

DARCEY L. ADAMS, Notary Public
In and for the State of Ohio
My Commission Expires February 26, 2020

(H1324863.1)

Bonnie Hard 5/3/16



BLACK & VEATCH
Building a world of difference.



BLACK & VEATCH
Building a world of difference.

Black & Veatch Corp.

Penn Center West, Bldg 4, Suite 326
Pittsburgh, PA 15276
913-458-2000

Ping Jiang

Black & Veatch Corp.

6800 W 115th ST, Suite 2292
Overland Park, KS 66211
(913) 458-7245
JiangP@bv.com

Monday, March 21, 2016

RIGOROUS STRUCTURAL ANALYSIS

160' Monopole

AT&T DESIGNATION:

Site ID: 1491 (SOH3573)
Site FA: 10070830
Site Name: AWE - HAMILTON AND JOHNSTOWN - SOH3573
AT&T Project: Non-AT&T Owned Tower
BV Project: 129021 (1491ATTOH2-S)

ANALYSIS CRITERIA:

Codes: TIA-222-G 90 mph Nominal 3-second Gust
IBC 2009
2011 Ohio Building Code

SITE DATA: 4096 West Johnstown Road, Columbus, OH 43230, Franklin County
Latitude 40.043056, Longitude -82.861671
Market: OH/WPA
160' Monopole

Black & Veatch Corp. is pleased to submit this Structural Analysis Report to determine the structural integrity of the aforementioned tower. The purpose of the analysis is to determine the suitability of the tower with the existing and proposed loading configuration detailed in the analysis report.

Analysis Results

Tower Stress Level with Proposed Equipment:	53.00%	Pass
Connection Stress Level with Proposed Equipment:	46.00%	Pass
Foundation Ratio with Proposed Equipment:	49.90%	Pass

*** See page 2 for the tilt and twist deflections at the MW dish elevation(s).**

We at Black & Veatch Corp. appreciate the opportunity of providing our continuing professional services to you. If you have any questions or need further assistance on this or any other projects please give us a call.

Respectfully Submitted by: Black & Veatch Corp.

Analysis Prepared by: Amitkumar Kolhar

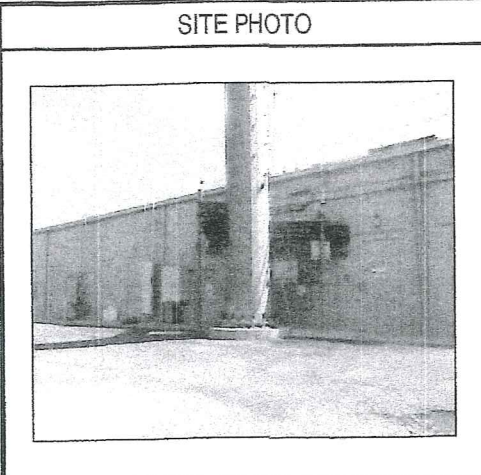
Analysis Reviewed by: Ping Jiang, P.E.

This analysis was prepared by me or under my direct supervision and to the best of my knowledge and ability complies with the applicable provisions of the governing codes and ordinances.



AT&T Proprietary (Internal Use Only)

Not for use or disclosure outside the AT&T companies
except under written agreement



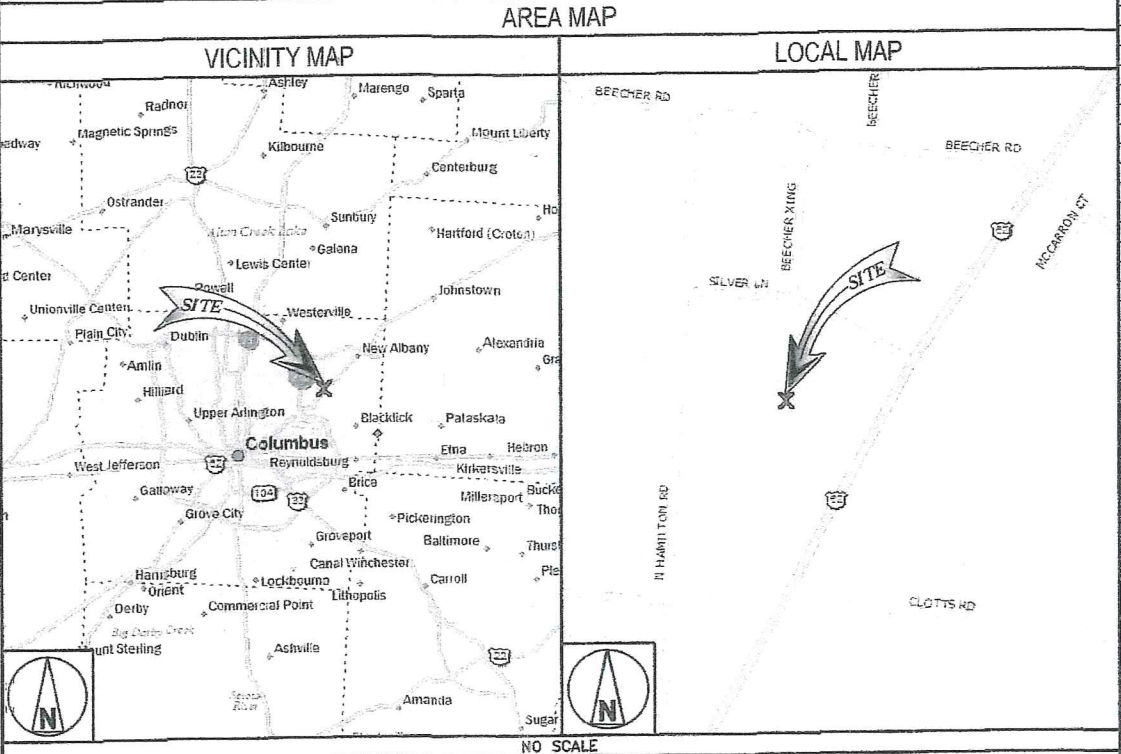
SITE PHOTO

PROJECT INFORMATION	
SITE ADDRESS:	4096 WEST JOHNSTOWN ROAD COLUMBUS, OH 43230
COUNTY:	FRANKLIN
SITE NAME:	HAMILTON AND JOHNSTOWN
SITE NUMBER:	SOH3573
FA NUMBER:	10070830
USID NUMBER:	1491
LATITUDE:	40° 02' 35.0" N
LONGITUDE:	82° 51' 42.00" W
GROUND ELEVATION:	906' AMSL
TOWER OWNER:	K2 TOWERS LLC
SITE ACQUISITION MANAGER:	GREG THOMPSON 412.298.8230
CONSTRUCTION MANAGER:	LARRY GOLOMKA 412.747.9620
LEAD ENGINEER:	CHRIS NICHOLS 913.458.6293
PROJECT MANAGER:	-
PHONE:	-
APPLICANT:	AT&T MOBILITY
CONTACT:	-
PHONE:	-

AT&T MOBILITY

PROJECT: LTE 2C
AT&T SITE ID: SOH3573
AT&T FA#: 10070830

HAMILTON AND JOHNSTOWN
COLUMBUS, OH 43230



DRIVING DIRECTIONS

DEPART FROM EAST BROAD STREET TOWARD COLUMBUS-NEWARK ROAD, RIGHT ONTO I-270 SLIP ROAD, TAKE EXIT 37 RIGHT ON TO SR 317 RAMP, GO STRAIGHT ONTO N HAMILTON ROAD, RIGHT ON TO US 82, ARRIVE AT SITE ON THE LEFT.

ENGINEERING	
2011 OHIO BUILDING CODE OR LATEST EDITION 2014 NATIONAL ELECTRIC CODE TIA-222-G OR LATEST EDITION	
DRAWING INDEX	
SHEET NO:	SHEET TITLE
TITLE PAGE	TITLE PAGE
T-1	ELEVATION
T-2	ANTENNA & CABLE CONFIGURATION
T-3	LTE SCHEMATIC
T-4	EQUIPMENT DETAILS
T-5	STRUCTURAL NOTES
T-6	EQUIPMENT NOTES
E-1	LTE 2C DC CIRCUIT DIAGRAM
E-2	ANTENNA GROUNDING PLAN
E-3	ELECTRICAL SECTION NOTES
N-1	GENERAL NOTES
N-2	GENERAL NOTES
S-1	ANTENNA MOUNT REINFORCEMENT (FOR REFERENCE ONLY)
S-2	ANTENNA MOUNT REINFORCEMENT (FOR REFERENCE ONLY)
11"x17" PLOT WILL BE HALF SCALE UNLESS OTHERWISE NOTED	
CONTRACTOR SHALL VERIFY ALL PLANS & EXISTING DIMENSIONS & CONDITIONS ON THE JOB SITE & SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME	
UNDERGROUND SERVICE ALERT OHIO UTILITY PROTECTION SERVICE 1.800.362.2764 811 3 WORKING DAYS UTILITY NOTIFICATION PRIOR TO CONSTRUCTION	
-THESE PLANS ADHERE TO ALL OF THE REQUIREMENTS CALLED OUT IN THE JURISDICTION PLANNING AND ZONING FOR ANTENNAS AND SUPPORT STRUCTURES WHERE SITE IS LOCATED. -SUBCONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING CONDITIONS ON SITE. IMMEDIATELY NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO PERFORMING ANY WORK OR BE RESPONSIBLE FOR THE SAME	

APPLICANT/OWNER:

**AT&T
MOBILITY**

8372 EAST BROAD ST.
REYNOLDSBURG, OH 43068

PREPARED BY:

BLACK & VEATCH

6800 W. 115TH ST, SUITE 2292
OVERLAND PARK, KANSAS 66211
(913) 458-2000

PROJECT NUMBER: 129021

STATE OF OHIO

PING JIANG
72759

REGISTERED
PROFESSIONAL ENGINEER

12/30/2015

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

LANDLORD/PROPERTY OWNER SIGNATURE

0	12/29/15	ISSUED FOR CONSTRUCTION
REV	DATE	DESCRIPTION

PROJECT LOCATION: USID (1491)

HAMILTON AND JOHNSTOWN

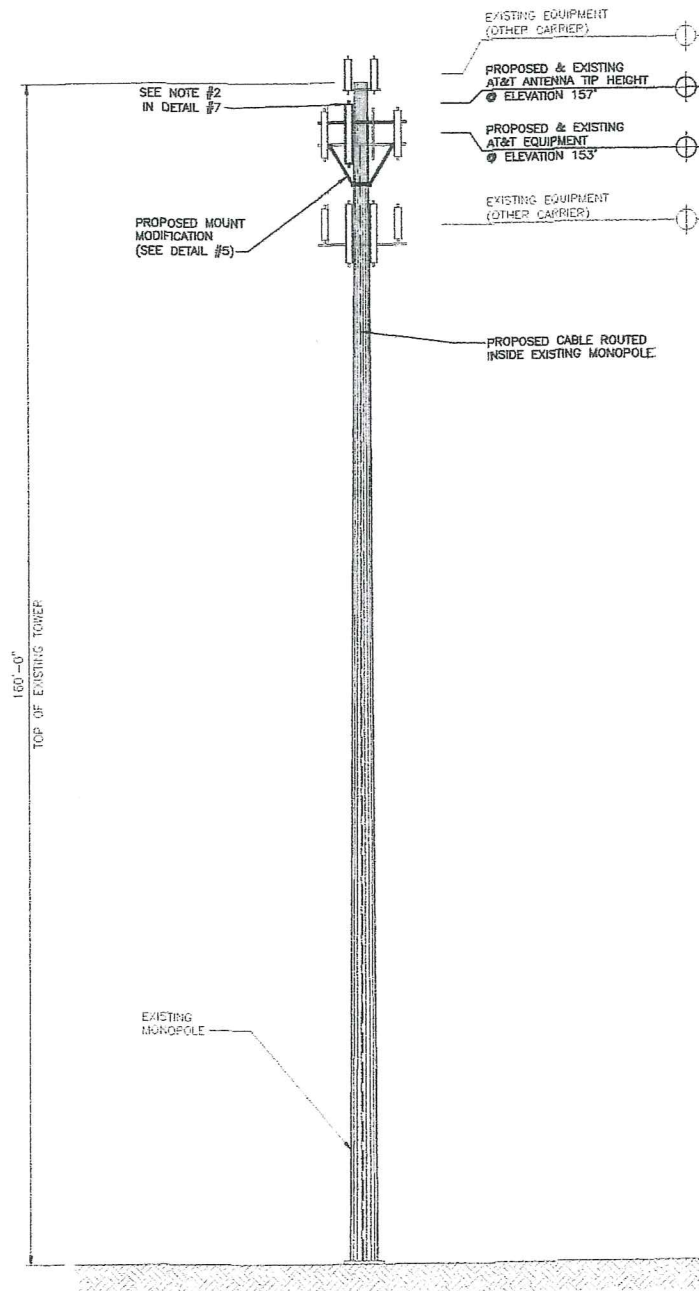
4096 WEST JOHNSTOWN ROAD
COLUMBUS, OH 43230

DRAWING DESCRIPTION:

TITLE PAGE

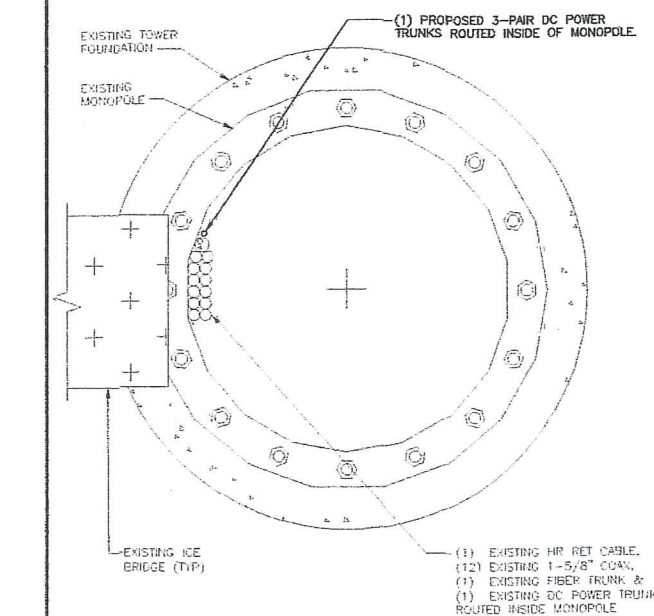
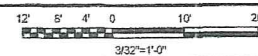
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TITLE PAGE



NOTE:
GROUND EQUIPMENT AND/OR
EQUIPMENT SHELTERS
OMITTED FOR CLARITY

FINAL TOWER ELEVATION



FINAL CABLE ROUTING PLAN

NO SCALE

3

THESE DRAWINGS HAVE BEEN CREATED BASED ON THE ASSUMPTION THAT THE STRUCTURE HAS SUFFICIENT CAPACITY TO SUPPORT THE PROPOSED LOADING. IT IS THE RESPONSIBILITY OF THE TOWER OWNER AND/OR ENGINEER TO CONFIRM THAT THE PROPOSED LOADING IS WITHIN THE ORIGINAL DESIGN CAPACITY OF THE STRUCTURE.

STRUCTURAL ANALYSIS NOTE

4

MOUNT MODIFICATIONS REQUIRED: SEE BLACK & VEATCH DESIGN DATED DECEMBER 10, 2015. PLEASE REFERENCE SHEETS S-1 AND S-2. NO PROPOSED LIE WORK SHALL COMMENCE ON THIS TOWER UNTIL AFTER MOUNT MODIFICATIONS HAVE BEEN COMPLETED AND PROPERLY INSPECTED.

MOUNT ANALYSIS NOTE

5

INSTALL:

- (3) PROPOSED LTE ANTENNAS
- (3) PROPOSED RRHs
- (1) PROPOSED DC POWER TRUNK

REMOVE:

- (3) EXISTING ANTENNAS

NOT USED

NO SCALE

2

SCOPE OF WORK

6

1. WHEN STACKING CABLES 3 OR MORE DEEP, USE STACKABLE SNAP-INS, TALLEY PART NUMBER SSH-158-3 (OR ENGINEER APPROVED EQUAL).
2. CONSTRUCTION TO CENTER THE ANTENNAS ON THE MOUNT AS SHOWN IN THE ELEVATION.

APPLICANT/OWNER:

**AT&T
MOBILITY**

8372 EAST BROAD ST.
REYNOLDSBURG, OH 43068

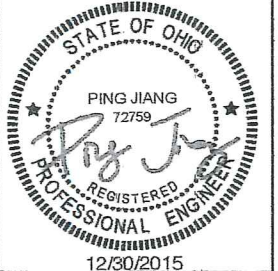
PREPARED BY:



BLACK & VEATCH

6800 W. 115TH ST, SUITE 2292
OVERLAND PARK, KANSAS 66211
(913) 458-2000

PROJECT NUMBER: 1129021



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LANDLORD/PROPERTY OWNER SIGNATURE

REV	DATE	DESCRIPTION
0	12.20.15	ISSUED FOR CONSTRUCTION

PROJECT LOCATION: USID (1491)

HAMILTON AND JOHNSTOWN
4096 WEST JOHNSTOWN ROAD
COLUMBUS, OH 43230

DRAWING DESCRIPTION:

ELEVATION

DRAWING NUMBER:

T-1

NOTES

7

