



ARLINGTON COUNTY, VIRGINIA

**County Board Agenda Item
Meeting of April 16, 2011**

DATE: April 7, 2011

SUBJECT: U-3280-11-1 USE PERMIT for public utility/telecommunications for three (3) panel antennas and one (1) GPS antenna; located at 5055 Chesterfield Road (RPC# 28-018-001).

Applicant:
AT&T Mobility

By:
Charles Salamone IV, Zoning Project Manager
Network Building and Consulting
7380 Coca Cola Drive, Suite 106
Hanover, Maryland 21076

C.M. RECOMMENDATION:

Approve the use permit for addition of three (3) panel antennas and one (1) GPS antenna to an existing telecommunications facility subject to the conditions of the staff report.

ISSUES: The applicant is requesting a use permit to collocate four (4) new antennas at an existing telecommunications facility on the roof of a multi-family building, and no issues have been identified.

SUMMARY: The applicant, AT&T Mobility, is requesting a use permit for the addition of three (3) dual-band panel antennas and one (1) 5" x 3.2" GPS antenna to an existing telecommunications facility on the mechanical penthouse of a multi-family building in the Claremont neighborhood. The three (3) panel antennas are proposed to be mounted at a lower height than the existing panel antennas on the building's penthouse, and will not create a visual impact. The GPS antenna will be mounted on the roof of the penthouse and will not be visible. The proposal is consistent with the *Interim Guidelines for Telecommunications Facilities on County-Owned Property* (Telecommunications Guidelines), which also applies to private properties, and which encourages the placement of antennas on existing structures. The Claremont Civic Association has no concerns with the applicant's proposal. Therefore, staff recommends that the use permit be approved subject to the conditions of the staff report.

County Manager:

BMD/GA

Staff: Matthew Pfeiffer, DCPHD, Planning Division

PLA-5865

14.

BACKGROUND: The applicant is proposing to collocate an additional four (4) antennas on an existing telecommunications facility on the penthouse of a multi-family building at 5055 Chesterfield Road. In 2010, the County Board approved an application from Clearwire for installation of three (3) panel antennas, two (2) microwave dish antennas, and one (1) GPS antenna at this location, all of which were mounted on the building's penthouse. The site is described as follows:

Site: The site is bound on the east by South Chesterfield Road, on the north by single-family dwellings, on the south by commercial development and King Street, and on the west by the City of Alexandria. The site consists of a residential multi-family building.

Zoning: The site is zoned "C-O" Commercial Office Building., Hotel, Multiple-Family Dwelling Districts, "R-6" One-Family Dwelling Districts, and "RA-18" Apartment Dwelling Districts.

Land Use: The site is designated on the General Land Use Plan (GLUP) as "Low-Medium" Residential (16-36 units/acre).

Neighborhood: The site is located within the Clarendon Civic Association. The president of the civic association expressed that they have no issues with the applicant's proposal in an email dated March 23, 2011.

DISCUSSION: The applicant, AT&T Mobility, is requesting a use permit for the placement of three (3) panel antennas and one (1) GPS antenna on the penthouse of an apartment building at 5055 Chesterfield Road in the Clarendon neighborhood. There are six (6) existing antennas mounted at various locations on the building's mechanical penthouse. The applicant's proposal includes mounting three (3) dual-band panel antennas on the east wall of the existing penthouse, a GPS antenna and associated tripod mount on the roof of the penthouse, and coaxial cable connections for the antennas. The subject panel antennas each measure approximately 58 inches in length.

The *Interim Guidelines for Placement of Telecommunications Facilities on County-Owned Property* (Telecommunications Guidelines), were used to evaluate the application. The Telecommunication Guidelines offer direction in the way of design, visual impact, and compliance with Federal Communications Commission (FCC) regulations, among other things. The Telecommunication Guidelines can be applied to telecommunication facilities on privately owned as well as County-owned property. The Telecommunications Guidelines encourage the location of new antennas on existing structures, as opposed to constructing a new pole. The proposed antennas meet these criteria. Attached are plans depicting the location and appearance of the proposed antennas.

The proposal would not have a visual impact on the surrounding residences. The panel antennas would be mounted at a height of 70 feet, which is below the roofline of the penthouse. The GPS antenna would be mounted on the roof of the penthouse, but would be at a lower height (30"

above the penthouse roof) than the existing antennas (58" above the penthouse roof), and would not be visible from surrounding streets. In addition, the antennas would be painted to match the existing antennas on the penthouse. The facility will continue to be unmanned, and no ground space would be used in association with this proposal. An equipment cabinet to serve the antennas is proposed to be located in an existing equipment room in the basement of the building.

CONCLUSION: Staff supports the applicant's proposal because it is consistent with the Telecommunications Guidelines and it will not create an additional visual impact. The Claremont Civic Association has expressed to staff that they have no issues with the applicant's proposal. Therefore, staff recommends that the use permit for AT&T Mobility for the placement of three (3) panel antennas and one (1) GPS antenna, and associated equipment at an existing telecommunications facility at 5055 Chesterfield Road be approved subject to the following conditions.

Conditions:

1. The applicant agrees that the three (3) AT&T panel antennas and one (1) GPS antenna on the existing building at 5055 Chesterfield Road will be installed as shown on plans dated October 14, 2010 and revised through 1/17/2011. Any additional antennas on the site will require a use permit amendment.
2. The applicant shall identify a community liaison who shall be available to address any concerns regarding the facility operation. The name and telephone number of the liaison shall be provided to the Claremont Civic Association and the Zoning Administrator.
3. The applicant agrees that the antennas shall be removed within ninety (90) days after any cessation of use.

PREVIOUS COUNTY BOARD ACTIONS:

April 7, 2010

Approved installation of three (3) panel antennas, two (2) dish antennas, and one (1) GPS antenna on the mechanical penthouse of the existing building at 5055 Chesterfield Rd.

PROJECT DESCRIPTION

THIS PROJECT IS FOR AN UNMANNED TELECOMMUNICATIONS FACILITY CONSISTING OF THREE (3) ADDITIONAL FLOOR ADDITIONS (1 PER SECTION) ON EXISTING ANTENNA MOUNTS ON EXISTING ROOFTOP.

PROJECT INFORMATION



SITE NAME: CLAREMONT
SITE ID NUMBER: 1194



VICINITY MAP

DIRECTIONS: FROM A|&T HANOVER OFFICE:
DEPART 7160 STANDARD DR, HANOVER, MD 21076 ON STANDARD DR (SOUTH-WEST),
TURN LEFT (SOUTH-WEST) ONTO PARKWAY DR, THEN IMMEDIATELY TURN RIGHT (NORTH-WEST) ONTO PARK
DRIVE AT EXIT 9A, TAKE RIGHT (SOUTH) ONTO COOL-COLA DR, TAKE TRAMP (LEFT) RIGHT (NORTH-WEST) ONTO PARK
DRIVE AT EXIT 9A, TAKE RIGHT (SOUTH) ONTO US-50 (LEAVE YOURS WEST) ONTO US-50 (LEAVE YOURS WEST)
DISTRIC OF COLUMBIA, ROAD NAME CHANGES TO US-1 AT [US-50] ROAD NAME CHANGES TO US-50 (NEW
YORK AVE NE), TURN LEFT (SOUTH) ONTO I-395 I-395 / TUNNEL, ENTERING VIRGINIA AT EXIT 5, TURN RIGHT
ONTO S CHESTERFIELD RD, ARRIVE 36.84405N 77.10954W.

APPLICABLE BUILDING CODES AND STANDARDS
SUBCONTRACTOR'S WORK SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL CODES AS ADOPTED BY THE LOCAL AUTHORITY HAVING JURISDICTION (AAJ) FOR THE LOCATION. THE EDITION OF THE AAJ ADOPTED CODES AND STANDARDS IN EFFECT ON THE DATE OF CONTRACT AWARD SHALL GOVERN THE DESIGN.
BUILDING CODES:
INTERNATIONAL BUILDING CODE (IBC 2006), IBC 2003 WITH LOCAL AMENDMENTS
NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 701
NATIONAL ELECTRIC CODE (NEC 2008 WITH LOCAL AMENDMENTS)
FIRE/LIFE SAFETY CODE: NFPA 2009 WITH LOCAL AMENDMENTS
SUBCONTRACTOR'S WORK SHALL COMPLY WITH THE LATEST EDITION OF THE FOLLOWING STANDARDS:
AMERICAN CONCRETE INSTITUTE (ACI) 318, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE
AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC), MANUAL OF STEEL CONSTRUCTION, ASD, NINTH EDITION
TELECOMMUNICATIONS INDUSTRY ASSOCIATION (TIA/EIA-222-F), STRUCTURAL STANDARDS FOR STEEL REINFORCED CONCRETE BUILDINGS
TIA 607, COMMERCIAL BUILDING GROUNDING AND BONDING REQUIREMENTS FOR TELECOMMUNICATIONS
INSTITUTE FOR ELECTRICAL AND ELECTRONICS ENGINEERS (IEEE) 81, GUIDE FOR MEASURING EARTH RESISTIVITY AND RELATED ELECTRICAL PROPERTIES
GROUNDING OF ELECTRONIC EQUIPMENT
IEEE 682-41, RECOMMENDED PRACTICES ON SURGE VOLTAGES IN LOW VOLTAGE AC POWER CIRCUITS (FOR LOCATION CATEGORY 'CS' AND HIGH SYSTEM EXPOSURE)
TELECOMA GR-11275, GENERAL INSTALLATION REQUIREMENTS
TELECOMA GR-1503, CUMULATIVE CABLE CONNECTIONS
ANSI T1.311, FOR TELECOM - DC POWER SYSTEMS - TELECOM, ENVIRONMENTAL PROTECTION
FOR ANY CONTACTS BETWEEN SECTIONS OF LISTED CODES AND STANDARDS REGARDING MATERIAL, METHODS OF CONSTRUCTION, OR OTHER REQUIREMENTS, THE MOST RESTRICTIVE REQUIREMENT SHALL GOVERN, WHERE THERE IS CONFLICT BETWEEN A GENERAL REQUIREMENT AND A SPECIFIC REQUIREMENT, THE SPECIFIC REQUIREMENT SHALL GOVERN.

RF DATA SHEET

DRAWING INDEX

DATE ISSUED: 4/26/10
VERSION: LT_V02.1

REV

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1194-C4	GROUNDING DETAILS	1
1194-C5	SITE DETAILS	1
1194-C6	SITE DETAILS	1
1194-1400A	AT&T MOBILITY SYSTEM DIAGRAM, TOWER/ROOFTOP SITE WITH INDOOR BASE BAND ON GRADE AND RRHS	1
1194-1416	AT&T MOBILITY WIRING DIAGRAM, INDOOR BASE BAND AND RRHS ON TOWER/ROOFTOP, DC/DC CONVERTER, DC6	1
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1194-12B	LTE DETAILS - RET RACK & RAYCAP BOXES	1
1194-1419	RET CONFIGURATION	1

CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE ENGINEERS IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK.
THIS DOCUMENT WAS DEVELOPED TO REFLECT A SPECIFIC SITE AND ITS SITE CONDITIONS AND IS NOT TO BE USED FOR ANOTHER SITE OR WHEN OTHER CONDITIONS PERTAIN. REUSE OF THIS DOCUMENT IS AT THE SOLE RISK OF THE USER.

BECHTEL COMMUNICATIONS
9200 BERGER ROAD
COLUMBIA, MD 21046

CLAVIS FILE SCHOENBERG BURNS & DEHAVEN INC.
520 South Main Street, Suite 2351 Akron, Ohio 44311
330-572-2100, Fax: 330-572-2101

AT&T Mobility
7160 STANDARD DRIVE
HANOVER, MD 21076

SITE NAME: CLAREMONT
SITE ID NUMBER: 1194
5055 SOUTH CHESTERFIELD ROAD
ARLINGTON, VA 22206

AT&T LTE PROJECT

TITLE SHEET

1194-11

NO.	DATE	REVISIONS / ISSUANCE	BY / CHECKED BY
1	1/27/11	ISSUED FOR CONSTRUCTION	SAZ / EMB / EMB
0	10/14/10	ISSUED FOR PERMITS	SAZ / EMB / EMB

DESIGNED BY: EMB DRAWN BY: SSB SCALE: AS SHOWN

DATE: 08/09/10
BY: [Signature]
NO.: 200347

AAE DESIGN PACKAGE REVIEW STATUS

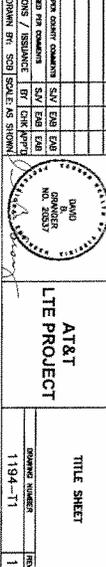
1.0 ACCEPTED--NO COMMENTS, PROCEED	2.0 COMMENTS
<input type="checkbox"/> A/E did not follow directions provided	<input type="checkbox"/> F. <input type="checkbox"/> Design deviation from standard
<input type="checkbox"/> Site owner requested change	<input type="checkbox"/> G. <input type="checkbox"/> Omissions
<input type="checkbox"/> Design input/changes in RFP zoning required	<input type="checkbox"/> H. <input type="checkbox"/> A/E requested change in design
<input type="checkbox"/> Revised site design	<input type="checkbox"/> I. <input type="checkbox"/> A &T changed site design
<input type="checkbox"/> OTHER	<input type="checkbox"/> J. <input type="checkbox"/> OTHER

Permittee to proceed does not constitute acceptance or approval of design details, calculations, quantities, that will constitute obligations of the supplier and does not release supplier from full compliance with contractual obligations.

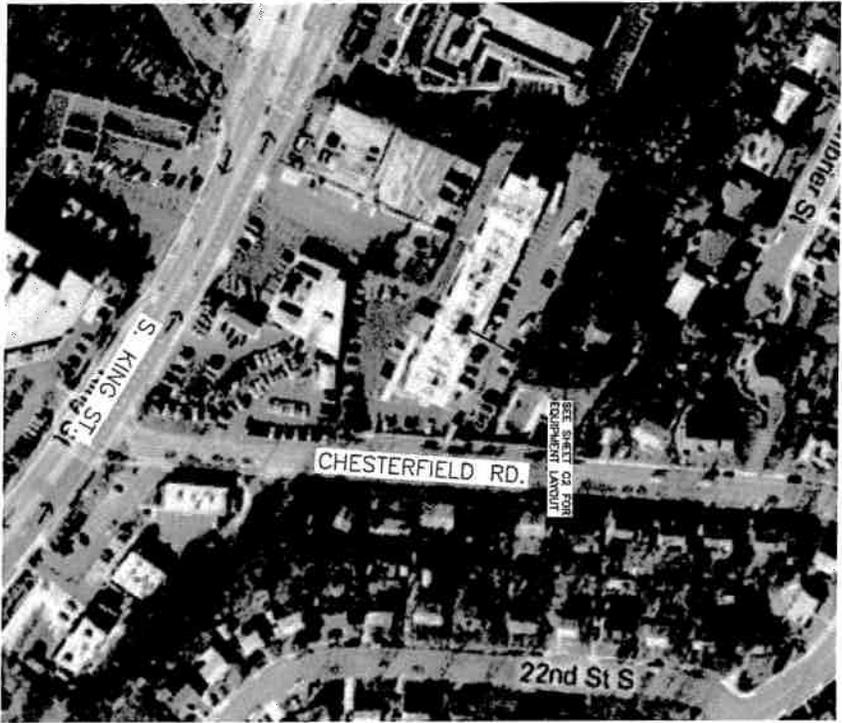
Released by: SA, 8/9/10 Date: _____

RF ENGINEER	SA	MARKET LEAD	OPERATION
MB 8/9/10	MS 8/17/10	OH 8/13/10	MC 8/17/10

TELECOM - WF 8/19/10



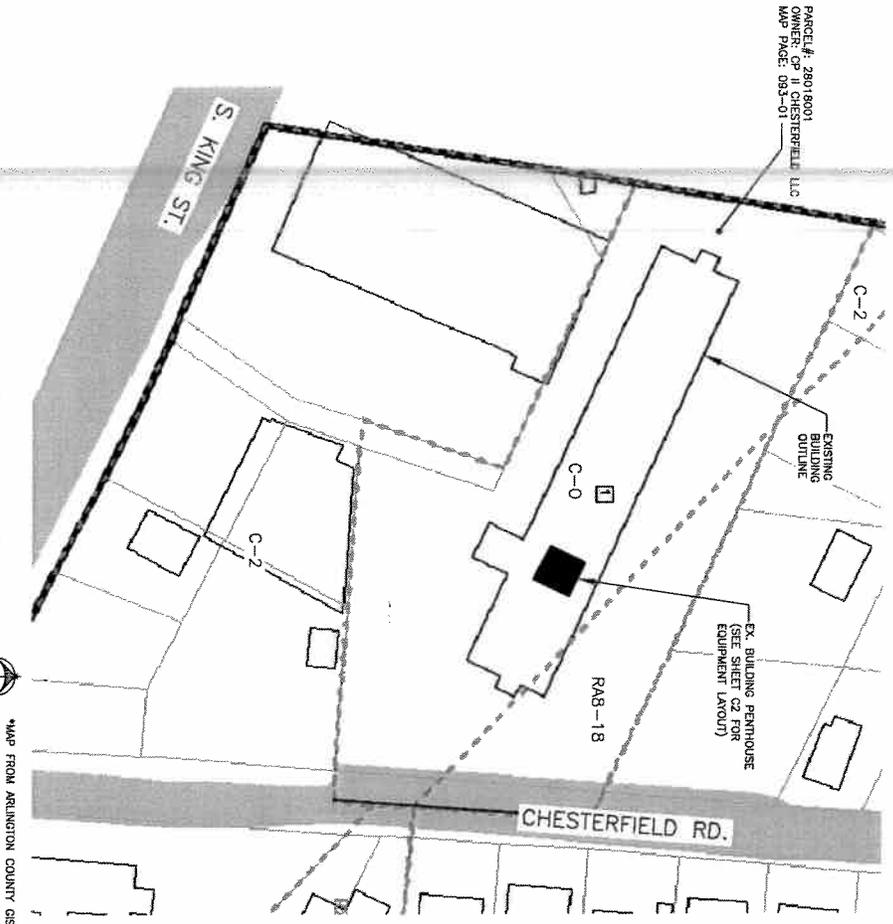
2010057.01 / 270



OVERALL SITE PLAN
SCALE: 1" = 80'-0"

- ZONING CODE LEGEND**
- C-0 COMMERCIAL, OFFICE BUILDING, HOTEL AND MULTIPLE-FAMILY DWELLING DISTRICTS
 - C-2 SERVICE COMMERCIAL - COMMUNITY SERVICE DISTRICTS
 - RA8-18 APARTMENT DWELLING DISTRICTS

ZONING LOCATION MAP
SCALE: 1" = 40'-0"



*MAP FROM ARLINGTON COUNTY GIS WEBSITE

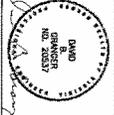
BECHTEL COMMUNICATIONS
9200 BERGER ROAD
COLUMBIA, MD 21046

GPD ASSOCIATES
CLAUS PYLE SCHOMER BURNS & DEHAVEN INC.
520 South Main Street, Suite 2331 Akron, Ohio 44311
330-572-2100, Fax: 330-572-2101

SITE NAME: CLAREMONT
SITE ID NUMBER: 1194
5055 SOUTH CHESTERFIELD ROAD
ARLINGTON, VA 22206

at&t Mobility
7180 STANDARD DRIVE
HANOVER, MD 21076

NO.	DATE	REVISIONS / ISSUANCE	BY	CHK	APPV
1	11/27/01	ISSUE FOR CONSTRUCTION	EAJ	EAJ	EAJ
2	01/07/02	ISSUE FOR PERMITS	SAJ	EAJ	EAJ



AT&T LTE PROJECT

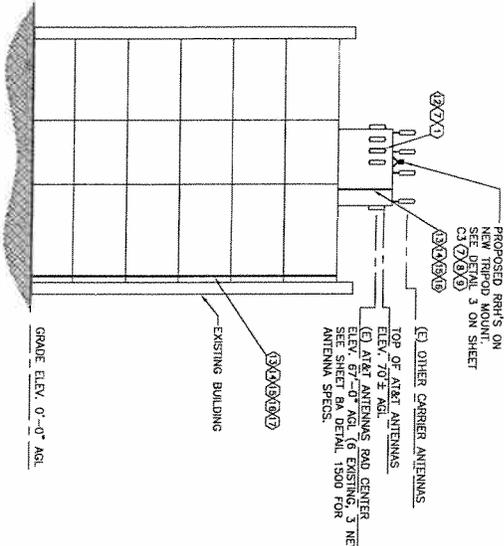
OVERALL SITE PLAN

PROJECT NUMBER: 1194-SP-1

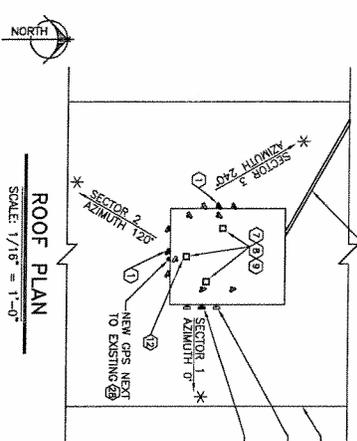
NO. 1

- SCOPE OF WORK:
1. INSTALL (1) NEW KATHREIN LTE ANTENNA EACH SECTOR ON NEW POLES (3 TOTAL)
 2. DEMO EXISTING 5M RET CABLE BETWEEN EACH ANTENNA PER SECTOR (3 TOTAL)
 3. INSTALL (1) NEW 5M RET CABLE FROM (E) ANTENNA TO NEW LTE ANTENNA (3 TOTAL)
 4. INSTALL (1) NEW 5M RET CABLE FROM NEW LTE ANTENNA TO (E) ANTENNA (3 TOTAL)
 5. INSTALL (1) NEW 1M RET CABLE ON LTE ANTENNA BETWEEN MOTORS (3 TOTAL)
 6. INSTALL (3) NEW TIRPOD MOTORS
 7. PREP FOR (2) RRH'S PER SECTOR ON NEW TIRPODS - E. GROUNDS (6 TOTAL)
 8. INSTALL (4) JUMPER FROM ANTENNAS TO RRH'S PER SECTOR (12 TOTAL)
 9. INSTALL (4) FEMALE DC STOPS ON RRH END OF JUMPERS (12 TOTAL)
 10. INSTALL (1) NEW DC BREAKERS FOR RRH'S PER SECTOR (3 TOTAL)
 11. INSTALL (1) NEW DC BREAKERS FOR CONVERTER W/ (3) 2KW CONVERTER MODULES
 12. INSTALL (1) NEW DC BREAKERS FOR CONVERTER W/ (3) 2KW CONVERTER MODULES
 13. INSTALL (1) NEW DC BREAKERS FOR CONVERTER W/ (3) 2KW CONVERTER MODULES
 14. INSTALL (1) NEW DC BREAKERS FOR CONVERTER W/ (3) 2KW CONVERTER MODULES
 15. INSTALL (1) NEW DC BREAKERS FOR CONVERTER W/ (3) 2KW CONVERTER MODULES
 16. REMOVE AND RENEW (100LF) OF CABLE TRAY
 17. REMOVE AND RENEW (100LF) OF CABLE TRAY
 18. CORE DRILL THROUGH BASEMENT WALL (2 TOTAL)
 19. INSTALL (1) NEW LTE EQUIPMENT FRAME
 20. INSTALL (1) NEW LTE EQUIPMENT FRAME
 21. INSTALL (1) NEW LTE EQUIPMENT FRAME
 22. INSTALL (1) NEW 15A BREAKERS FOR SECTORS / RRH'S
 23. INSTALL (1) NEW 15A BREAKERS FOR SECTORS / RRH'S
 24. INSTALL (1) NEW 15A BREAKERS FOR SECTORS / RRH'S
 25. INSTALL (1) NEW FIBER TRAY IN EXISTING FLEX BAY
 26. INSTALL (1) 66 BLOCK ON ALARM BACKBOARD FOR LTE
 27. INSTALL (1) 66 A BREAKERS FOR RRH
 28. INSTALL (1) GPS ANTENNA MOUNT NEXT TO (E) GPS ANTENNA
 29. INSTALL (1) GPS ANTENNA MOUNT NEXT TO (E) GPS ANTENNA
 30. SET ANTENNA DOWNLITS FOR LIMITS
 31. INSTALL WEATHERPROOFING FOR LIMITS
 32. COMPLETE PSEP CALL TESTING

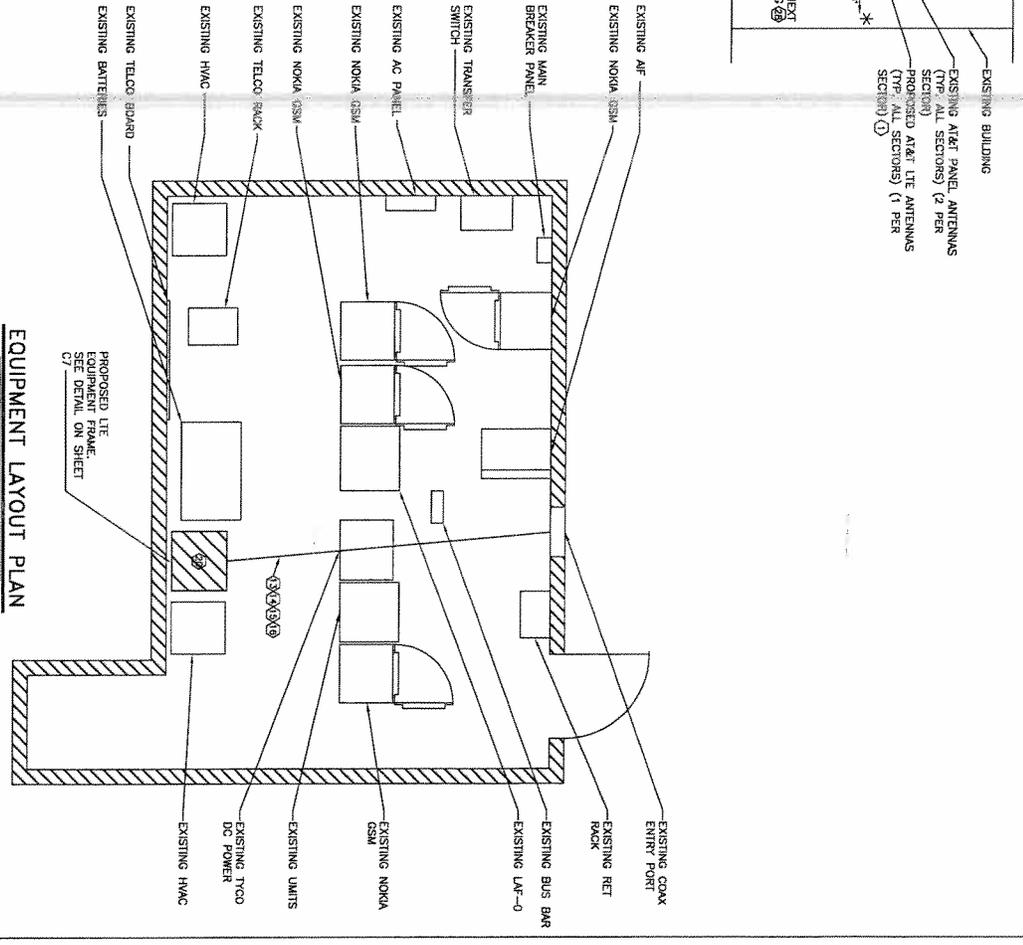
TELECOM-11



ELEVATION VIEW



ROOF PLAN



EQUIPMENT LAYOUT PLAN

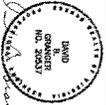
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at&t 7160 STARBOARD DRIVE
FARMINGTON, MD 21076
Mobility

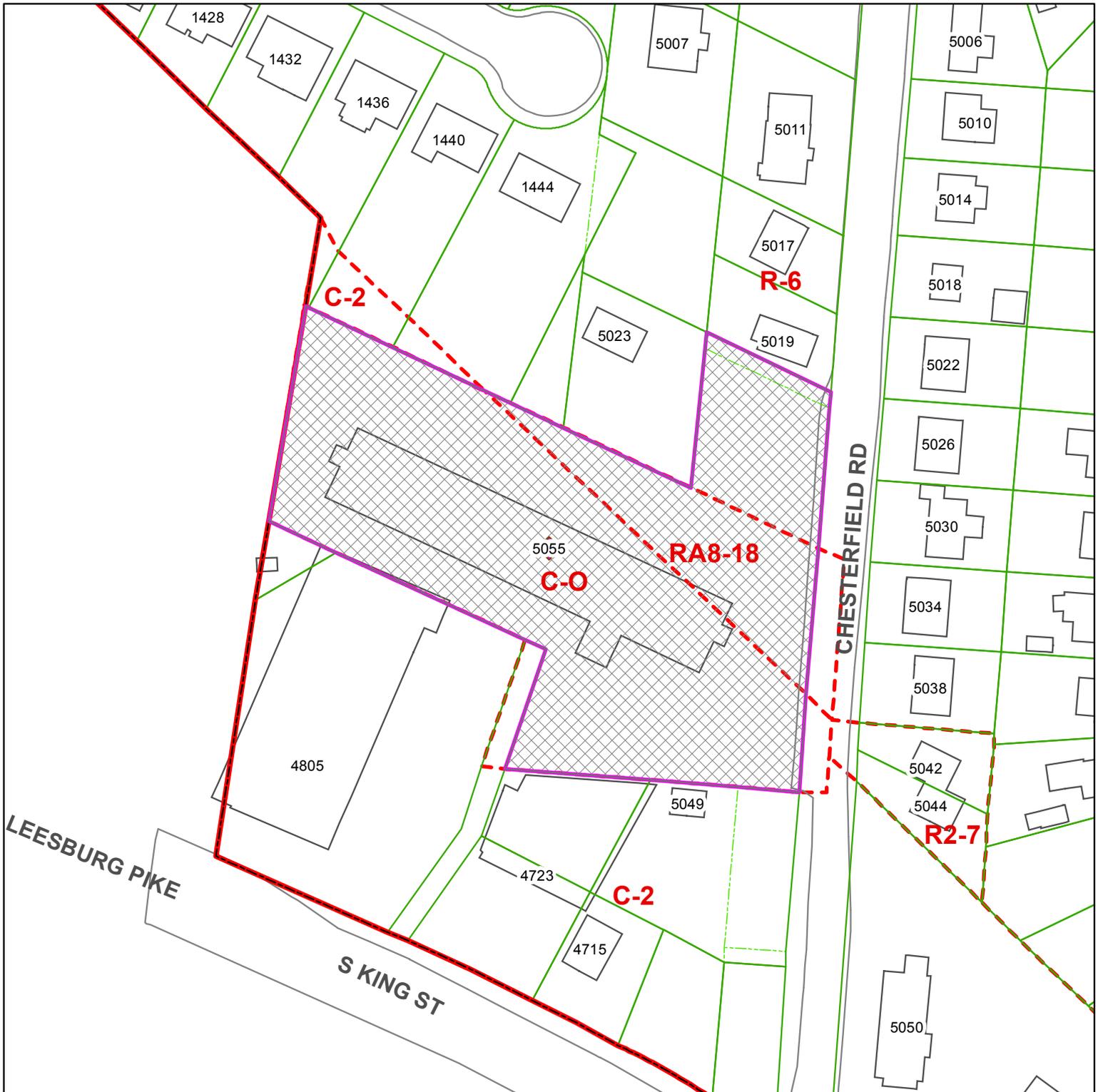
NO.	DATE	REVISIONS / ISSUANCE	BY	CHK	APPV
1	1/17/21	ISSUED FOR CONSTRUCTION	SAV	ENG	ENG
0	10/14/20	REVISED FOR CONSTRUCTION	SAV	ENG	ENG



AT&T
LTE PROJECT

SITE PLAN AND ELEVATION VIEW
DRAWING NUMBER: 1194-C2

20100927.01 1/20



U-3280-11-1

5055 Chesterfield Road

RPC: 28-018-001



 Case
 Location(s)
 Scale: 1:1,200

Note: These maps are for property location assistance only.
 They may not represent the latest survey and other information.