MCPB

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PSSM at Black Rock, Mandatory Referral, MR2020006

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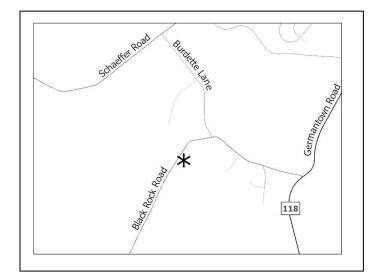
Completed: 3/13/20

Description

PSSM at Black Rock: MR2020006

- Mandatory Referral associated with a request to construct a Public Safety System Modernization (PSSM) radio communications tower at 17410 Black Rock Road in Germantown
- Zone: AR
- Property Size: 16.43 Ac
- Master Plan: 1980 Preservation of Agriculture & Rural Open Space Master Plan

Staff Recommendation: Approval with Comments Review Basis: Md. Land Use Code Ann. § 20-301 Applicant: Montgomery County Department of Technology Services (DTS)



Summary

The review of this Mandatory Referral is in two parts:

Part A – Preliminary/Final Forest Conservation Plan MR2020006, discussed in a separate staff report, and Part B - Mandatory Referral MR2020006.

The Applicant proposes to construct a 250 foot tall self-support tower at 17410 Black Rock Road in Germantown, MD. The tower is considered a Public Use (59.3.4.9) under the Zoning Code and not a Telecommunications Facility (59.3.5.2.C). The Public Use category within the Zoning Ordinance does not provide review standards. However, because this use is similar in character to a telecommunications facility, the conditional use review standards for a telecommunications facility were used by staff to provide guidance to inform the review of the project for Planning Board consideration.

Staff recommends approval of the Mandatory Referral with comments to be transmitted to the Montgomery County Department of Technology Services.

RECOMMENDATIONS:

Staff recommends approval of the Mandatory Referral with the following comments to be transmitted to the Montgomery County Department of General Services:

- 1. There should be no outdoor storage of equipment or other items.
- 2. Install a sign not more than two feet square affixed to the equipment compound identifying the owner, operator, and maintenance service provider of the support structure and the emergency telephone number of a contact person.
- 3. Submit documentation on height and location of the tower to the Department of Permitting Services prior to final inspection of the building permit.
- 4. Certify that the telecommunications tower is operating within Federal Communications Commission (FCC) standards on an annual basis, in addition, an actual radio frequency (RF) measurement should be provided after the telecommunications tower is installed, and after each co-location on the subject tower.
- 5. The owner of the tower is responsible for maintaining the tower in a safe condition.
- 6. Remove the tower and equipment compound within twelve months of cessation of the use of the facility.
- 7. Parks requests the Applicant work with the Department of Parks trail staff to provide adequate safety measures and signage for trail users.

Mandatory Referral Review

This proposal for the construction of a new a Public Safety System Modernization (PSSM) radio communications tower requires the Mandatory Referral review process under the Montgomery County Planning Department's Uniform Standards for Mandatory Referral Review. State law requires all federal, state, and local governments and public utilities to submit proposed projects for a Mandatory Referral review and approval by the Commission. The law requires the Montgomery County Planning Board to review and approve the proposed location, character, grade and extent of any road, park, public way or ground, public (including federal) building or structure, or public utility (whether publicly or privately owned) prior to the project being located, constructed or authorized.

PROJECT DESCRIPTION

Background

The Public Safety Systems Modernization (PSSM) Program will replace the older communications systems with a new system that supports the County's public safety agencies and personnel to protect the lives and ensure the safety of the public. The PSSM Program is a multi-department/agency multi-year \$110M capital project.

The Montgomery County Department of Technology Services (DTS) under the PSSM program has applied for this Mandatory Referral construct a 250 foot tall self-support tower at 17410 Black Rock Road Germantown, MD, Parcel 973 ("Property"). The applicant states that, "the current system fails to provide adequate radio coverage in several areas in the County" and that the, "new base stations are sited and designed to provide complete and effective coverage according to a '95/95' coverage mandate: 95 percent coverage reliability in 95 percent of the County service area." The applicant further states that in areas where existing radio coverage is inadequate, "there are significant consequences for emergency response personnel. A lack of radio service can increase response time, the number of personnel required to effectively respond to an emergency situation, and the amount of time it takes to resolve an incident."

Surrounding Neighborhood

The Property is surrounded to the west and south by larger farm parcels zoned Agriculture Reserve (AR). To the north and east the property is adjacent to a PEPCO easement and overhead high tension towers and lines, beyond the power lines are R-200 zoned properties. Further away from the site to the north is South Germantown Recreational Park.



Figure 1: 2019 Aerial Photograph of the Vicinity (Property shown in yellow)

Site Description

The Property is hilly and generally from the outer edges to the center of the Property where there is an existing farm pond and wetlands. There are two forest stands totaling about 3.38 acres along the western edge of the property of the Property. There is a stream that that flows into the farm pond and exits to the southwest. The Property is actively farmed and generally undeveloped with the exception of one house (not designated as historic) and some agricultural outbuildings.



Figure 2: 2019 Aerial Photograph of the Property

Proposed Project

The 250 foot tall Class III lattice tower with a 4' lightning rod will be a total of 254 feet in height. The industry standard, red and white strobes will be installed as a beacon on the tower.

The tower will be built to Structure Class III standards, which has a "return period" of 1700 years. This means the observed wind speed is statistically likely to meet or exceed the design wind load only once every 1700 years. According to the applicant, Class III structures are capable of withstanding storms that would otherwise devastate nearby structures, and these structures are frequently among the last structures standing after a catastrophic weather event.

The site layout for the project is shown in Figures 4 and 5. The tower will be contained within approximately a $70' \times 70'$ pad site area in the southeast area of the Property. A $11'8'' \times 40'$ shelter with an internal generator will be next to the tower.

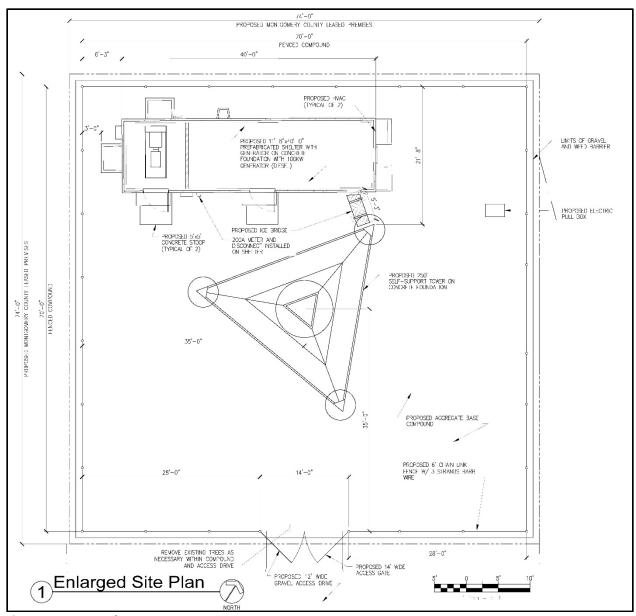


Figure 4: Compound Layout

Figure 5 shows the tower configuration and Figures 6 and 7 show the range of service coverage before and after the tower's completion.

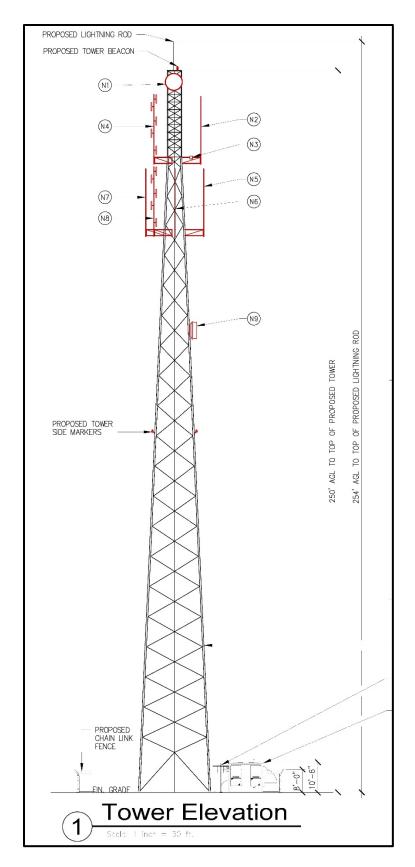


Figure 5: Tower Design

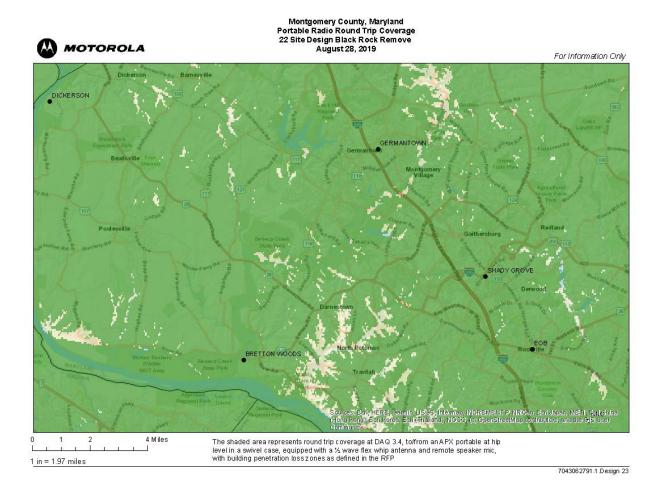


Figure 6: Coverage Map (in green) without Tower

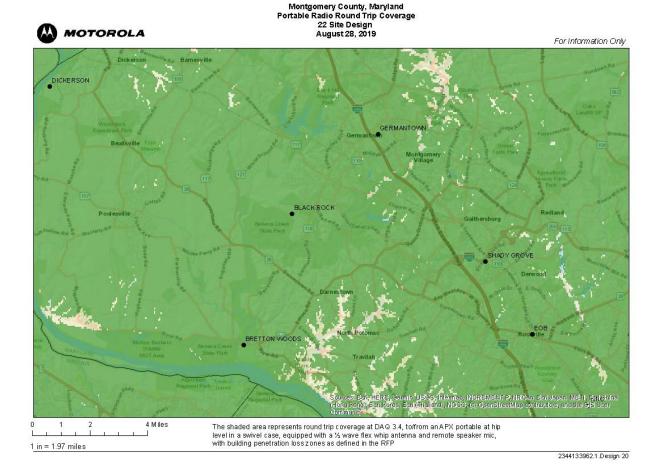


Figure 7: Coverage Map (in green) with Tower

Master Plan Consistency

1980 Preservation of Agriculture & Rural Open Space Master Plan has no specific language or recommendations on the Property. The Property lies within Planning Area 18, Lower Seneca Basin and according to the Master Plan is not known for prime agricultural soils but that the land is available and still can be productive farmland. This Application will use approximately 5,000 square feet (.12 acres) for non-agricultural purposes. Leaving the remainder of the 16+ acre farm in agriculture.

The project, while taking into consideration of the use and purpose of safety, is in substantial conformance with the Master Plan.

Neighborhood Compatibility

Although the tower will be visible from many locations in the area, the importance of the function of the tower must be weighed against the diminished viewshed. This location is already visually disrupted by the existing PEPCO overhead transmission lines and towers. Given the importance of the facility and the need to provide coverage, the impact on neighborhood compatibility should be weighed against the safety of the citizens.

Zoning

The Property is in the AR zone under the Montgomery County Zoning Ordinance (Chapter 59) (the "Zoning Code"). The AR zone is considered an agricultural zone.

The proposed use under the Zoning Code is "Public Use (Except Utilities)," covered by Section 3.4.9 of the Code. A Public Use is a permitted use in all zones. According to the Zoning Code:

Public Use (Except Utilities) means a publicly-owned or publicly operated use. Public Use (Except Utilities) includes County office buildings, maintenance facilities, public schools and parks, post office, State and Federal buildings. Public Use (Except Utilities) does not include a Public Utility Structure (see Section 3.6.7.E, Public Utility Structure).

According to Section 3.6.7.E of the Zoning Code:

Public Utility Structure means a utility structure other than transmission lines or pipelines. Public Utility Structure includes structures for the occupancy, use, support, or housing of switching equipment, regulators, stationary transformers, and other such devices for supplying electric service or other public utilities.

Section 3.4.9 does not provide review standards for a public utility structure. Although the proposed use is a public use and not a conditional use, it is similar in character to a telecommunications facility, which is a conditional use, and therefore similar guidance should inform the review of the project. Staff looked to Section 3.5.2.C of the Code, "Telecommunications Tower," to provide the best guidance to inform this report.

A Telecommunications Tower in the AR Zone is a Limited Use or Conditional Use in the land use table. This tower would exceed the maximum height limit (179 feet) and the size limit of the omni-directional antennae (15 feet). For these reasons, Staff compared the Public Use PSSM tower to the Conditional Use standards in the Code, again to inform the Board.

In the Conditional Use process, the Hearing Examiner is the approving body for those applications. However, this is application is for Mandatory Referral only and the Hearing Examiner is not involved in this Application and is only referenced below to demonstrate how the Zoning Code is written.

The Conditional Use standards for a Telecommunications Tower are numerous, but because the application is for a Mandatory Referral and not a Conditional Use, **these standards are not mandatory**; only the most pertinent standards from §59.3.5.2.C.2.c are discussed below.

i. Before the Hearing Examiner approves any conditional use for a Telecommunications Tower, the proposed facility must be reviewed by the County Transmission Facility Coordinating Group. The applicant for a conditional use must file a recommendation from the Transmission Facility Coordinating Group with the Hearing Examiner at least 5 days before the date set for the public hearing. The recommendation must be no more than 90 days old.

The Transmission Facility Coordinating Group "Recommended (approval), conditioned on approval through the Mandatory Referral process" the tower application at its October 3, 2019 meeting.

- ii. A Telecommunications Tower must be set back from the property line, as measured from the base of the support structure, as follows:
- (d) The Hearing Examiner may reduce the setback requirement to not less than the building setback for a detached house building type in the applicable zone or to a distance of one foot from an off-site dwelling for every foot of height of the support structure, whichever is greater, if evidence indicates that a reduced setback will allow the support structure to be located on the property in a less visually obtrusive location than locations on-site where all setback requirements can be met after considering the height of the structure, topography, existing vegetation, nearby residential properties, and visibility from the street. A reduced setback may be approved only if there is a location on the property where the setback requirements can be met.

There are no existing dwellings within 300 feet of the proposed tower location and the tower location meets the building, front rear and side, setbacks of the zone. This proposed tower <u>does meet</u> this recommended setback.



Figure 3: Aerial Photograph with Setbacks

iii. The maximum height of a support structure and antenna is 135 feet, unless it can be demonstrated that additional height up to 179 feet is needed for service, collocation, or public safety communication purposes. At the completion of construction, before the support structure may be used to transmit any signal, and before the final inspection required by the building permit, the applicant must certify to DPS that the height and location of the support structure conforms with the height and location of the support structure on the building permit.

The proposed height of 240 feet (including lightning rod); While it does exceed the height normally allowed under a Conditional Use, the height is necessary for public safety communication purposes.

iv. The support structure must be located to minimize its visual impact. Screening under Division 6.5 is not required, however, the Hearing Examiner may require the support structure to be less visually obtrusive by use of screening, coloring, stealth design, or other visual mitigation options, after considering the height of the structure, topography, existing vegetation and environmental features, and nearby residential properties.

Screening at ground level is sufficient when incorporating the existing vegetation between the tower and Black Rock Road.

viii. The equipment compound must have sufficient area to accommodate equipment sheds or cabinets associated with all the carriers. Outdoor storage of equipment or other items is prohibited.

The equipment compound contains an 11' 8" x 40' shelter with an internal generator and has sufficient area inside for the required equipment. No outdoor storage is proposed or recommended.

ix. The support structure must be removed at the cost of the owner of the Telecommunications Tower when the Telecommunications Tower is no longer in use by any wireless communication carrier for more than 12 months.

Staff has included a similar provision in its comments.

x. The support structure must be identified by a sign 2 square feet or smaller, affixed to the support structure or any equipment building. The sign must identify the owner and the maintenance service provider of the support structure or any attached antenna and provide the telephone number of a person to contact regarding the structure. The sign must be updated and the Hearing Examiner notified within 10 days of any change in ownership.

Staff has included this provision in its comments.

xi. Each owner of the Telecommunications Tower is responsible for maintaining the wireless communications tower in a safe condition.

Staff has included this provision in its comments.

Transportation

The project will be an unmanned facility that will generate no more than 10 visits per day. Therefore, normal operations of the facility will generate less than 50 total weekday peak-hour person trips and the project is therefore exempt from the Local Area Transportation Review (LATR) test and any requirement for further traffic analysis.

According to the 1996 Rustic Roads Functional Master Plan, Black Rock Road (R-10) in front of the subject property has a designated right-of-way of 70 feet and is classified as a Rustic Road with two travel lanes. The subject property is a unplatted parcel and no dedication has been done. The Property should dedicate all necessary right-of-way if the property is ever platted.

The Applicant did not take the application to the Rustic Roads Advisory Committee. The property frontage is along Black Rock Road (Rustic), however access to the tower is across the Pepco Transmission lines and has access from Roger Drive which is not a Rustic Road. Additionally, Darcy Buckley, Rustic Roads Advisory Committee Staff Coordinator, in an email on February 14, 2020 stated RRAC is not going to provide comments on the Black Rock driveway.

The 2018 Countywide Bicycle Master Plan does not call for any facilities along Black Rock Road.

FOREST CONSERVATION

The Application meets the requirements of Chapter 22A of the Montgomery County Forest Conservation Law. See Forest Conservation Plan staff report (Item A) for a complete analysis.

IMPACTS TO PARKLAND

The proposal will have no direct impact M-NCPPC Department of Parks property. However, M-NCPPC Parks Staff did have some concerns. The intersection and parallel access road is right along the Parks/Pepco Powerline Trail. Parks staff questions if there would be safety concerns for the trail users if the Applicant did not install any protective measures where the trail intersects and follows the access road. Parks requests the Applicant work with the Department of Parks trail staff to provide adequate safety measures and signage for trail users.

COMMUNITY OUTREACH AND NOTIFICATION

This Application was noticed in accordance with the Uniform Standards for Mandatory Referral Review. The adjoining property owners and a civic association were notified.

The Applicant held a Community Meeting on March 25, 2018 one person attended and there were no objections raised.

Staff received 2 emails prior to the posting of this staff report. Both were just requesting information and staff emailed all the planning links to both parties. No further contact was made.

CONCLUSION

Staff recommends that the Planning Board approve the Mandatory Referral and transmit to the Department of Technological Services the comments and recommendations of this report.

The current first responders radio system fails to provide adequate radio coverage in several areas in the County, including the Germantown area. The manufacturer's support for the existing voice radio system began being phased out at the end of 2009. The proposed PSSM tower will fill in the coverage gap in the Damascus area and will provide greater reliability, allowing police, fire, medical, and other first responders to react more quickly and efficiently in an emergency. The Applicant has demonstrated that the proposed location is well suited to cover the part of the County surrounding Germantown. The Class III structural standards provide an extremely safe facility.

As a Public Use, the proposed tower is not required to meet the standards of a Telecommunications Tower. However, Staff applied Telecommunications Tower review criteria to this project and finds that it meets most of these standards; Staff has recommended that many of these standards be applied to this project.

Attachment A – Mandatory Referral Package Attachment B – Council Resolution