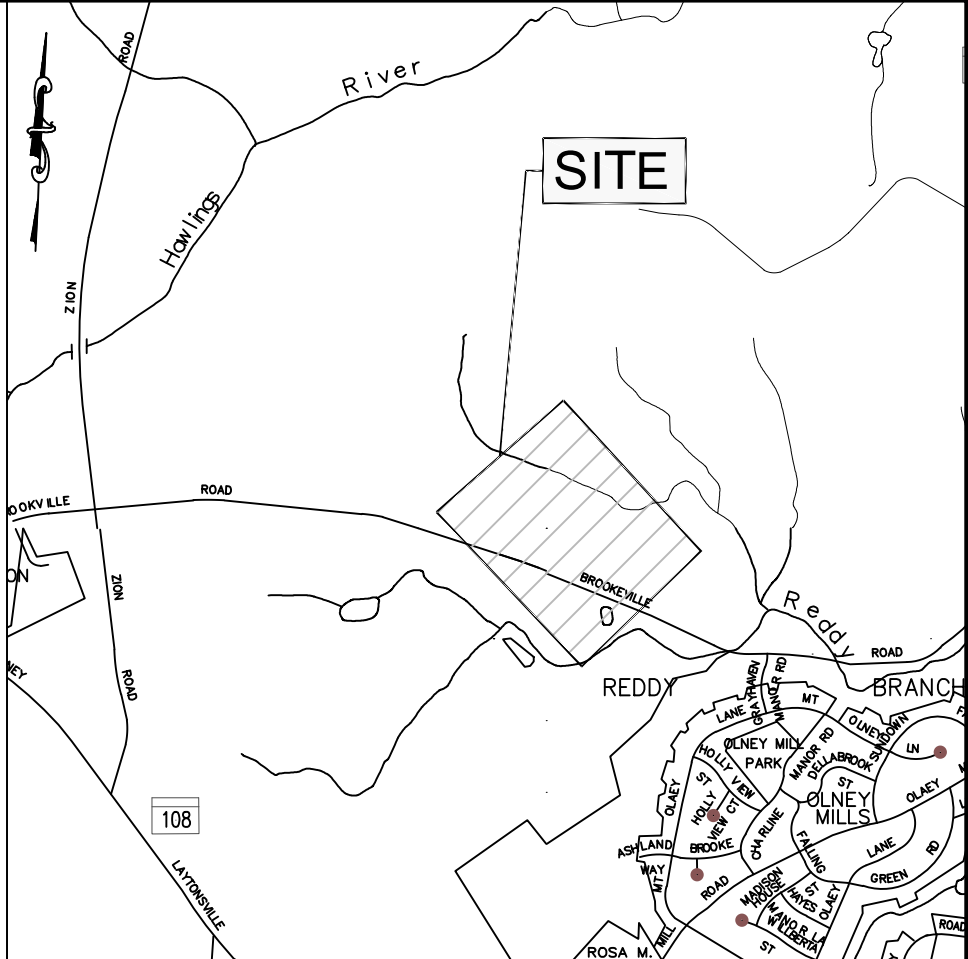


- GENERAL NOTES:
1. PROPERTY OFFSETS ARE APPROXIMATE. FINAL LOCATION OF COMPOUND TO BE DEVELOPED FROM TOWER ☐
  2. THE LOCATION, SIZE & TYPE OF MATERIAL OF EXISTING UTILITIES INDICATED ON THE PLANS IS NOT REPRESENTED AS BEING ACCURATE, SUFFICIENT OR COMPLETE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE ACTUAL LOCATION OF ALL SUCH FACILITIES, INCLUDING THE SERVICE CONNECTIONS TO UNDERGROUND UTILITIES. PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL NOTIFY THE UTILITY COMPANIES OF HIS OPERATIONAL PLANS & SHALL OBTAIN FROM THE RESPECTIVE UTILITY COMPANIES DETAILED INFORMATION & ASSISTANCE RELATIVE TO THE LOCATION OF THEIR FACILITIES & THE WORKING SCHEDULE OF THE COMPANIES FOR REMOVAL OR ADJUSTMENT WHERE REQUIRED. IN THE EVENT AN UNEXPECTED UTILITY INTERFERENCE IS ENCOUNTERED DURING CONSTRUCTION, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE UTILITY COMPANY OF JURISDICTION. THE ENGINEER SHALL ALSO BE IMMEDIATELY NOTIFIED. ANY SUCH MAINS & SERVICES SHALL BE RESORTED TO SERVICE AT ONCE & PAID FOR BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE CONTRACT.
  3. ALL PROPOSED CONSTRUCTION ACTIVITIES & MODIFICATIONS SHALL COMPLY WITH MOTOROLA R-56 STANDARDS, MOST CURRENT REVISION.

ANY DISCREPANCIES BETWEEN THIS DRAWING PACKAGE AND EXISTING FIELD CONDITIONS MUST BE REPORTED TO THE ENGINEER OF RECORD PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.

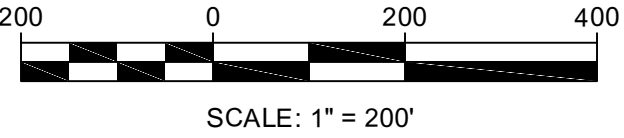


VICINITY MAP  
SCALE: 1"=2,000'

STUDY AREA RESOURCE DATA	
205.38 AC	TRACT AREA
56.18 AC	EXISTING FOREST
6.34 AC	EXISTING WETLANDS
1.66 AC	FOREST IN EXISTING WETLANDS
0.00 AC	EXISTING FLOODPLAIN
0.00 AC	FOREST IN EXISTING FLOODPLAIN
197.6 AC	EXISTING STREAM BUFFER
55.06 AC	FOREST IN EXISTING STREAM BUFFER
4,300 LF	STREAM BUFFER LENGTH
2,000 FT	AVERAGE STREAM BUFFER WIDTH

- LEGEND
- 2' CONTOUR (SOURCE: COUNTY GIS)
  - STREAM LINE (SOURCE: NWI & COUNTY HYDROLOGY GIS)
  - NON-TIDAL WETLAND BOUNDARY (SOURCE: NWI GIS)
  - APPROXIMATE 25' WETLAND BUFFER
  - APPROXIMATE STREAM BUFFER
  - FOREST LINE
  - FOREST STAND BREAK
  - FOREST INTERIOR DWELLING SPECIES (SOURCE: MD MERLIN)
  - FIDS
  - PROPERTY LINE
  - OHE OVERHEAD UTILITY LINE
  - EX. GRAVEL DRIVE FOR ACCESS
  - STUDY AREA
  - 16B 9C SOILS BOUNDARY
  - SP-1 SPECIMEN TREE WITH CRITICAL ROOT ZONE
  - BUILDING
  - STEEP SLOPES 15-25%
  - STEEP SLOPES 25% AND GREATER
  - PROPOSED EASEMENT
  - PROPOSED FENCE
  - PROPOSED LIMIT OF DISTURBANCE
  - PROPOSED CONTOUR

THIS PLAN WAS PREPARED BY:  
AMANDA WAGONER  
KCI TECHNOLOGIES, INC.  
MDNR QUALIFIED PROFESSIONAL  
(JUNE 2014)  
*Amanda Wagoner*  
SIGNATURE  
JANUARY 2020  
DATE



**KCI TECHNOLOGIES**  
ENGINEERS  
PLANNERS  
SCIENTISTS  
CONSTRUCTION MANAGERS  
936 RIDGEBROOK ROAD  
SHARPS, MD 21152  
PHONE: (410) 316-7800  
FAX: (410) 316-7817  
www.kci.com

REVISIONS			
NO.	DATE	DESCRIPTION	BY

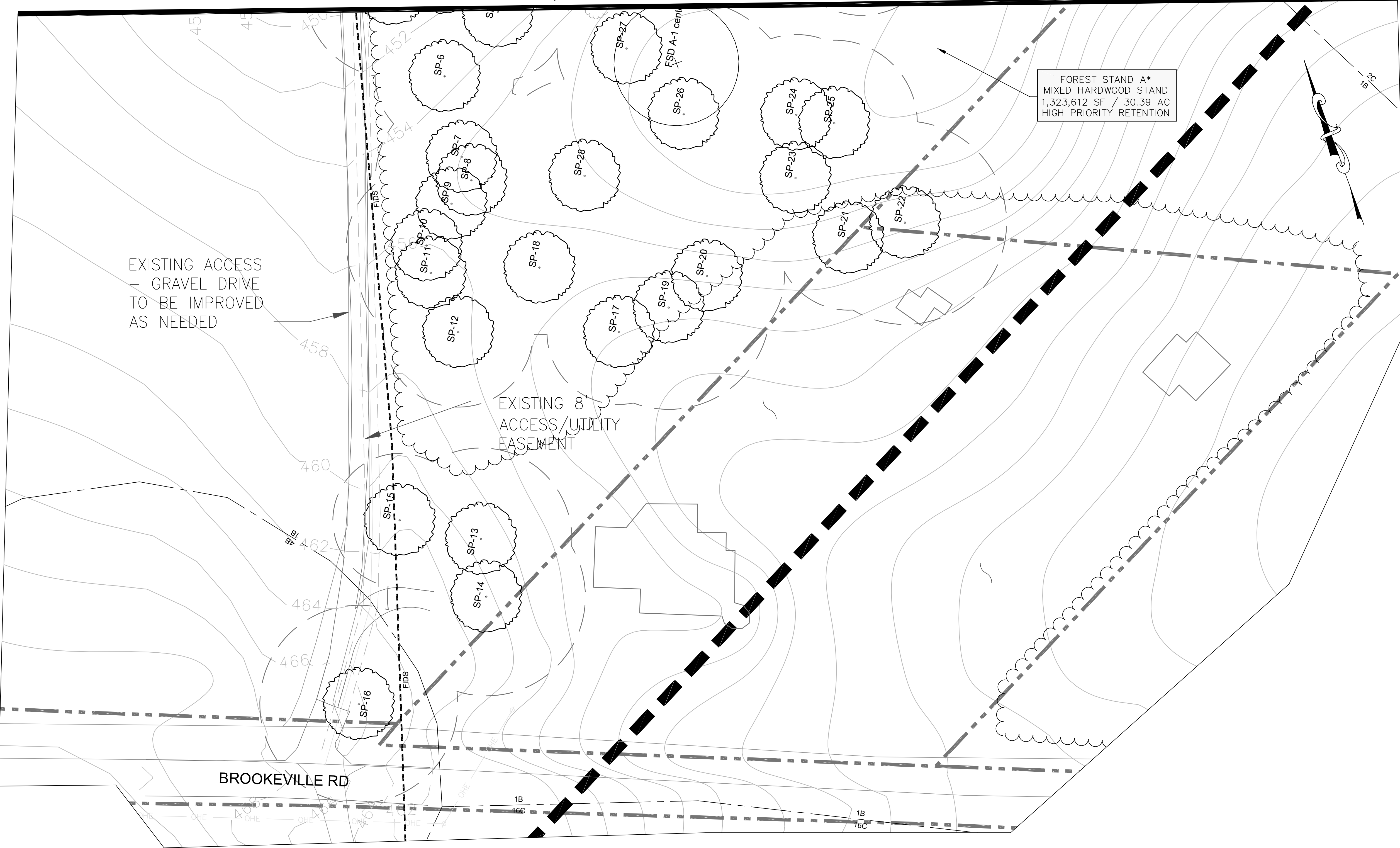
DATE  
JANUARY 2020  
SCALE  
CHECKED BY  
JB  
DRAWN BY  
RAW

APPLICANT: RADIO COMMUNICATIONS SERVICES (DEPARTMENT OF TECHNOLOGY SERVICES)  
PLAN NUMBER: 420200990  
BROOKEVILLE ROAD PROPOSED TOWER  
SIMPLIFIED FOREST STAND DELINEATION/  
NATURAL RESOURCES INVENTORY MAP  
4301 BROOKEVILLE ROAD BROOKEVILLE, MARYLAND 20833  
MONTGOMERY COUNTY

DRAWING NO.  
**NRI-00**  
SHEET 1 OF 4  
KCI JOB NUMBER  
011702908.06



MATCHLINE (SEE SHEET NRI-02)



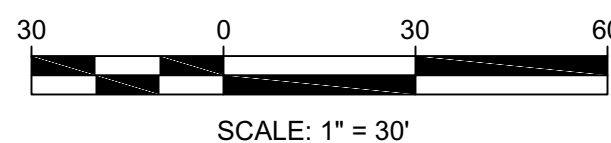
- GENERAL NOTES:
1. PROPERTY OFFSETS ARE APPROXIMATE. FINAL LOCATION OF COMPOUND TO BE DEVELOPED FROM TOWER ☺
  2. THE LOCATION, SIZE & TYPE OF MATERIAL OF EXISTING UTILITIES INDICATED ON THE PLANS IS NOT REPRESENTED AS BEING ACCURATE, SUFFICIENT OR COMPLETE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE ACTUAL LOCATION OF ALL SUCH FACILITIES, INCLUDING THE SERVICE CONNECTIONS TO UNDERGROUND UTILITIES. PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL NOTIFY THE UTILITY COMPANIES OF HIS OPERATIONAL PLANS & SHALL OBTAIN FROM THE RESPECTIVE UTILITY COMPANIES DETAILED INFORMATION & ASSISTANCE RELATIVE TO THE LOCATION OF THEIR FACILITIES & THE WORKING SCHEDULE OF THE COMPANIES FOR REMOVAL OR ADJUSTMENT WHERE REQUIRED. IN THE EVENT AN UNEXPECTED UTILITY INTERFERENCE IS ENCOUNTERED DURING CONSTRUCTION, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE UTILITY COMPANY OF JURISDICTION. THE ENGINEER SHALL ALSO BE IMMEDIATELY NOTIFIED. ANY SUCH MAINS & SERVICES SHALL BE RESORTED TO SERVICE AT ONCE & PAID FOR BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE CONTRACT.
  3. ALL PROPOSED CONSTRUCTION ACTIVITIES & MODIFICATIONS SHALL COMPLY WITH MOTOROLA R-56 STANDARDS, MOST CURRENT REVISION.

ANY DISCREPANCIES BETWEEN THIS DRAWING PACKAGE AND EXISTING FIELD CONDITIONS MUST BE REPORTED TO THE ENGINEER OF RECORD PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.

- LEGEND
- 2' CONTOUR (SOURCE: COUNTY GIS)
  - STREAM LINE (SOURCE: NWI & COUNTY HYDROLOGY GIS)
  - NON-TIDAL WETLAND BOUNDARY (SOURCE: NWI GIS)
  - APPROXIMATE 25' WETLAND BUFFER
  - APPROXIMATE STREAM BUFFER
  - FOREST LINE
  - FOREST STAND BREAK
  - FOREST INTERIOR DWELLING SPECIES (SOURCE: MD MERLIN)
  - PROPERTY LINE
  - OVERHEAD UTILITY LINE
  - EX. GRAVEL DRIVE FOR ACCESS
  - STUDY AREA
  - SOILS BOUNDARY
  - SPECIMEN TREE WITH CRITICAL ROOT ZONE
  - BUILDING
  - STEEP SLOPES 15-25%
  - STEEP SLOPES 25% AND GREATER
  - PROPOSED EASEMENT
  - PROPOSED FENCE
  - PROPOSED LIMIT OF DISTURBANCE
  - PROPOSED CONTOUR

THIS PLAN WAS PREPARED BY:  
AMANDA WAGONER  
KCI TECHNOLOGIES, INC.  
MDNR QUALIFIED PROFESSIONAL  
(JUNE 2014)

Signature of Amanda Wagoner  
DATE  
JANUARY 2020



**KCI TECHNOLOGIES**  
ENGINEERS  
PLANNERS  
SCIENTISTS  
CONSTRUCTION MANAGERS  
936 RIDGEBROOK ROAD  
SHARPS, MD 21152  
PHONE: (410) 316-7800  
FAX: (410) 316-7817  
www.kci.com

REVISIONS				DATE
NO.	DATE	DESCRIPTION	BY	

CHECKED BY: JB  
DRAWN BY: AAW

APPLICANT: RADIO COMMUNICATIONS SERVICES (DEPARTMENT OF TECHNOLOGY SERVICES)  
PLAN NUMBER: 420200990  
BROOKEVILLE ROAD PROPOSED TOWER  
SIMPLIFIED FOREST STAND DELINEATION/  
NATURAL RESOURCES INVENTORY MAP  
4301 BROOKEVILLE ROAD BROOKEVILLE, MARYLAND 20833  
MONTGOMERY COUNTY

DRAWING NO.  
**NRI-01**  
SHEET 2 OF 4  
KCI JOB NUMBER  
011702908.06

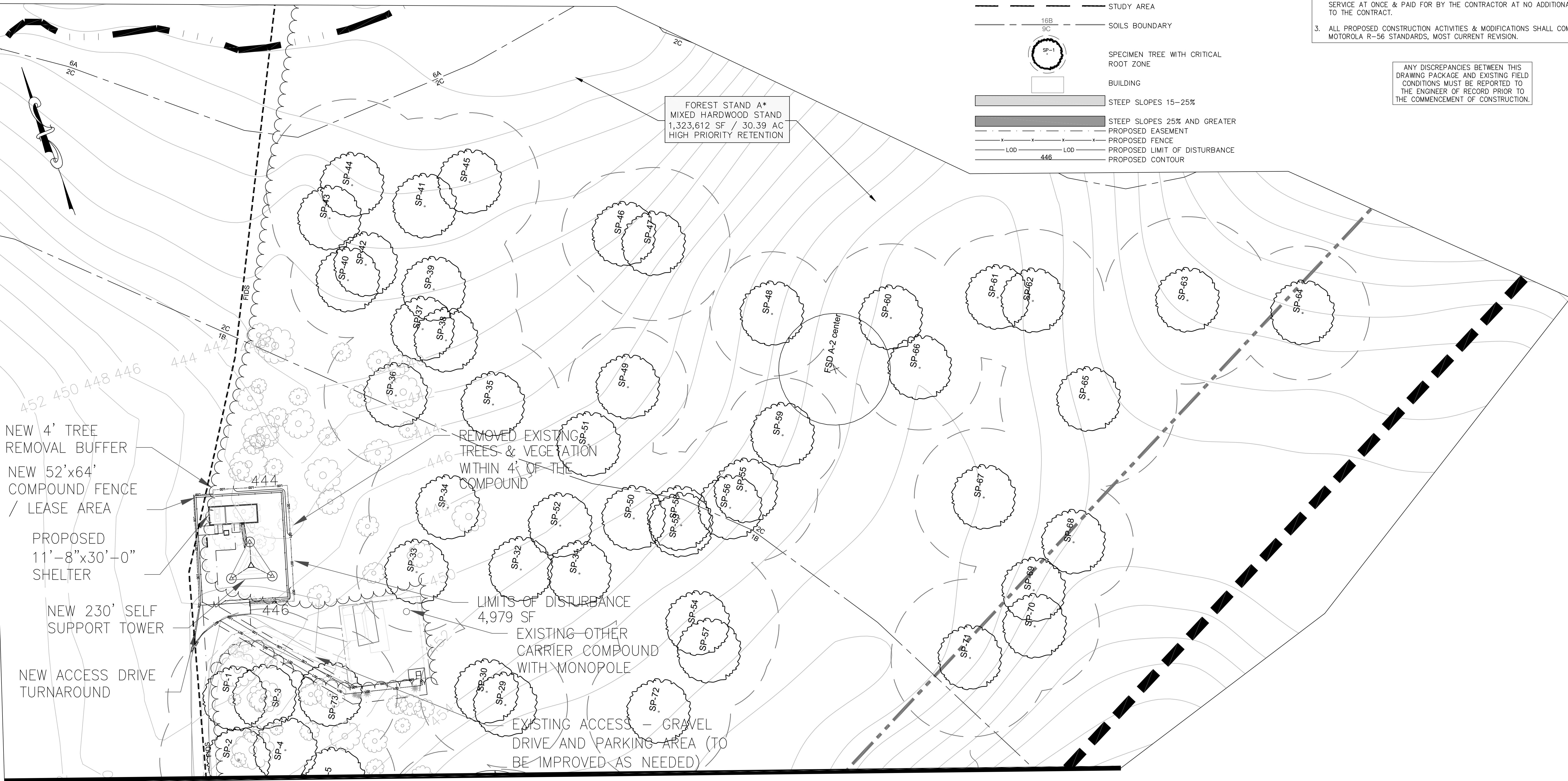


**LEGEND**

2' CONTOUR (SOURCE: COUNTY GIS)  
STREAM LINE (SOURCE: NWI & COUNTY HYDROLOGY GIS)  
NON-TIDAL WETLAND BOUNDARY (SOURCE: NWI GIS)  
APPROXIMATE 25' WETLAND BUFFER  
APPROXIMATE STREAM BUFFER  
FOREST LINE  
FOREST STAND BREAK  
FOREST INTERIOR DWELLING SPECIES (SOURCE: MD MERLIN)  
PROPERTY LINE  
OVERHEAD UTILITY LINE  
EX. GRAVEL DRIVE FOR ACCESS  
STUDY AREA  
SOILS BOUNDARY  
SPECIMEN TREE WITH CRITICAL ROOT ZONE  
BUILDING  
STEEP SLOPES 15-25%  
STEEP SLOPES 25% AND GREATER  
PROPOSED EASEMENT  
PROPOSED FENCE  
PROPOSED LIMIT OF DISTURBANCE  
PROPOSED CONTOUR

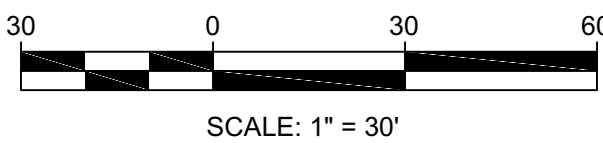
- GENERAL NOTES:**
- PROPERTY OFFSETS ARE APPROXIMATE. FINAL LOCATION OF COMPOUND TO BE DEVELOPED FROM TOWER.
  - THE LOCATION, SIZE & TYPE OF MATERIAL OF EXISTING UTILITIES INDICATED ON THE PLANS IS NOT REPRESENTED AS BEING ACCURATE, SUFFICIENT OR COMPLETE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE ACTUAL LOCATION OF ALL SUCH FACILITIES, INCLUDING THE SERVICE CONNECTIONS TO UNDERGROUND UTILITIES. PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL NOTIFY THE UTILITY COMPANIES OF HIS OPERATIONAL PLANS & SHALL OBTAIN FROM THE RESPECTIVE UTILITY COMPANIES DETAILED INFORMATION & ASSISTANCE RELATIVE TO THE LOCATION OF THEIR FACILITIES & THE WORKING SCHEDULE OF THE COMPANIES FOR REMOVAL OR ADJUSTMENT WHERE REQUIRED. IN THE EVENT AN UNEXPECTED UTILITY INTERFERENCE IS ENCOUNTERED DURING CONSTRUCTION, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE UTILITY COMPANY OF JURISDICTION. THE ENGINEER SHALL ALSO BE IMMEDIATELY NOTIFIED. ANY SUCH MAINS & SERVICES SHALL BE RESORTED TO SERVICE AT ONCE & PAID FOR BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE CONTRACT.
  - ALL PROPOSED CONSTRUCTION ACTIVITIES & MODIFICATIONS SHALL COMPLY WITH MOTOROLA R-56 STANDARDS, MOST CURRENT REVISION.

ANY DISCREPANCIES BETWEEN THIS DRAWING PACKAGE AND EXISTING FIELD CONDITIONS MUST BE REPORTED TO THE ENGINEER OF RECORD PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.



THIS PLAN WAS PREPARED BY:  
AMANDA WAGONER  
KCI TECHNOLOGIES, INC.  
MDNR QUALIFIED PROFESSIONAL  
(JUNE 2014)

*Amanda Wagoner*  
SIGNATURE  
JANUARY 2020  
DATE



**KCI TECHNOLOGIES**  
ENGINEERS  
PLANNERS  
SCIENTISTS  
CONSTRUCTION MANAGERS  
936 RIDGEBROOK ROAD  
SHARPS, MD 21152  
PHONE: (410) 316-7800  
FAX: (410) 316-7817  
www.kci.com

REVISIONS				DATE
NO.	DATE	DESCRIPTION	BY	JANUARY 2020

APPLICANT: RADIO COMMUNICATIONS SERVICES (DEPARTMENT OF TECHNOLOGY SERVICES)  
PLAN NUMBER: 420200990  
BROOKEVILLE ROAD PROPOSED TOWER  
**SIMPLIFIED FOREST STAND DELINEATION/  
NATURAL RESOURCES INVENTORY MAP**  
4301 BROOKEVILLE ROAD BROOKEVILLE, MARYLAND 20833  
MONTGOMERY COUNTY

DRAWING NO.  
**NRI-02**  
SHEET 3 OF 4  
KCI JOB NUMBER  
011702908.06



SPECIMEN TREE TABLE						
Number	Species	Common Name	Size, DBH (in)	Condition	Notes	
SP-1	<i>Quercus rubra</i>	Northern Red Oak	28.0	Good	Leaning	
SP-2	<i>Quercus alba</i>	White Oak	33.0	Fair	Vine coverage	
SP-3	<i>Quercus rubra</i>	Northern Red Oak	37.0	Good	Some broken branches	
SP-4	<i>Quercus rubra</i>	Northern Red Oak	38.0	Good		
SP-5	<i>Nyssa sylvatica</i>	Black Gum	26.0	Good		
SP-6	<i>Liriodendron tulipifera</i>	Tulip Poplar	26.0	Good	Some broken branches	
SP-7	<i>Liriodendron tulipifera</i>	Tulip Poplar	28.0	GFair	Some vines, minimal crown	
SP-8	<i>Quercus falcata</i>	Southern Red Oak	36.0	Fair	Leaning, bark missing	
SP-9	<i>Nyssa sylvatica</i>	Black Gum	25.0	Good	Broken Branches	
SP-10	<i>Liriodendron tulipifera</i>	Tulip Poplar	30.0	Good	Minor vines, splits below DBH	
SP-11	<i>Liriodendron tulipifera</i>	Tulip Poplar	27.0	Fair	Vine coverage, barbed wire in the trunk, splits below DBH	
SP-12	<i>Quercus rubra</i>	Northern Red Oak	28.0	Fair	Vine coverage	
SP-13	<i>Quercus rubra</i>	Northern Red Oak	34.0	Good		
SP-14	<i>Liriodendron tulipifera</i>	Tulip Poplar	37.0	Fair	Broken/missing branches	
SP-15	<i>Liriodendron tulipifera</i>	Tulip Poplar	25.0	Good		
SP-16	<i>Quercus alba</i>	White Oak	37.0	Good	Located near Brookeville Road	
SP-17	<i>Liriodendron tulipifera</i>	Tulip Poplar	27.0	Good		
SP-18	<i>Liriodendron tulipifera</i>	Tulip Poplar	25.0	Poor	Insect damage, broken/missing branches	
SP-19	<i>Liriodendron tulipifera</i>	Tulip Poplar	38.0	Good		
SP-20	<i>Liriodendron tulipifera</i>	Tulip Poplar	29.0	Good	Some broken branches	
SP-21	<i>Carya glabra</i>	Pignut Hickory	27.0	Good		
SP-22	<i>Quercus alba</i>	White Oak	38.0	Good		
SP-23	<i>Liriodendron tulipifera</i>	Tulip Poplar	25.0	Good		
SP-24	<i>Liriodendron tulipifera</i>	Tulip Poplar	30.0	Good	Minimal crown	
SP-25	<i>Liriodendron tulipifera</i>	Tulip Poplar	31.0	Good		
SP-26	<i>Liriodendron tulipifera</i>	Tulip Poplar	43.0	Fair	Vine coverage, broken/missing branches	
SP-27	<i>Liriodendron tulipifera</i>	Tulip Poplar	26.0	Good	Minimal crown	
SP-28	<i>Liriodendron tulipifera</i>	Tulip Poplar	37.0	Good	Minimal crown, broken branches	
SP-29	<i>Quercus velutina</i>	Black Oak	26.0	Good	Broken Branches	
SP-30	<i>Quercus rubra</i>	Northern Red Oak	28.0	Fair	Vines, broken/missing branches	
SP-31	<i>Acer rubrum</i>	Red Maple	25.0	Good		
SP-32	<i>Liriodendron tulipifera</i>	Tulip Poplar	34.0	Good	Some missing branches	
SP-33	<i>Quercus alba</i>	White Oak	25.0	Good	Minor vines	
SP-34	<i>Liriodendron tulipifera</i>	Tulip Poplar	33.0	Good		
SP-35	<i>Liriodendron tulipifera</i>	Tulip Poplar	28.0	Fair	Double trunk, minimal crown	
SP-36	<i>Acer rubrum</i>	Red Maple	30.0	Fair	Double trunk, splits above DBH, one trunk dying	
SP-37	<i>Liriodendron tulipifera</i>	Tulip Poplar	26.0	Good		
SP-38	<i>Liriodendron tulipifera</i>	Tulip Poplar	32.0	Good		
SP-39	<i>Liriodendron tulipifera</i>	Tulip Poplar	35.0	Fair	Cavity starting at base, Broken/missing branches	
SP-40	<i>Liriodendron tulipifera</i>	Tulip Poplar	24.0	Fair	Cavity at base	
SP-41	<i>Liriodendron tulipifera</i>	Tulip Poplar	37.0	Good	Minimal crown	
SP-42	<i>Liriodendron tulipifera</i>	Tulip Poplar	26.0	Good		
SP-43	<i>Acer rubrum</i>	Red Maple	24.0	Fair	Vines, broken branches	
SP-44	<i>Quercus rubra</i>	Northern Red Oak	36.0	Good	Leanning at the top	
SP-45	<i>Liriodendron tulipifera</i>	Tulip Poplar	29.0	Good	Minimal crown	
SP-46	<i>Liriodendron tulipifera</i>	Tulip Poplar	26.0	Good		
SP-47	<i>Quercus velutina</i>	Black Oak	32.0	Fair	Broken/missing branches	
SP-48	<i>Liriodendron tulipifera</i>	Tulip Poplar	26.0	Good		
SP-49	<i>Liriodendron tulipifera</i>	Tulip Poplar	25.0	Fair	Broken/missing branches	
SP-50	<i>Liriodendron tulipifera</i>	Tulip Poplar	29.0	Good		
SP-51	<i>Liriodendron tulipifera</i>	Tulip Poplar	27.0	Good		
SP-52	<i>Liriodendron tulipifera</i>	Tulip Poplar	24.0	Good		
SP-53	<i>Liriodendron tulipifera</i>	Tulip Poplar	28.0	Good	Some vines	
SP-54	<i>Liriodendron tulipifera</i>	Tulip Poplar	34.0	Good	Minimal crown	
SP-55	<i>Liriodendron tulipifera</i>	Tulip Poplar	30.0	Good		
SP-56	<i>Liriodendron tulipifera</i>	Tulip Poplar	24.0	Good	Minor vines	
SP-57	<i>Liriodendron tulipifera</i>	Tulip Poplar	25.0	Good	Minor vines	
SP-58	<i>Liriodendron tulipifera</i>	Tulip Poplar	28.0	Good	Some broken branches	
SP-59	<i>Quercus velutina</i>	Black Oak	24.0	Good		
SP-60	<i>Quercus velutina</i>	Black Oak	31.0	Good		
SP-61	<i>Quercus velutina</i>	Black Oak	26.0	Good	Leaning	
SP-62	<i>Quercus velutina</i>	Black Oak	30.0	Good	Some broken branches	
SP-63	<i>Quercus rubra</i>	Northern Red Oak	35.0	Fair	Insect damage	
SP-64	<i>Quercus rubra</i>	Northern Red Oak	28.0	Good	Good	
SP-65	<i>Liriodendron tulipifera</i>	Tulip Poplar	37.0	Good		
SP-66	<i>Quercus velutina</i>	Black Oak	26.0	Fair	Leaning, missing/broken branches	
SP-67	<i>Quercus rubra</i>	Northern Red Oak	29.0	Good		
SP-68	<i>Liriodendron tulipifera</i>	Tulip Poplar	25.0	Good		
SP-69	<i>Carya glabra</i>	Pignut Hickory	26.0	Fair	Knots, broken/missing branches	
SP-70	<i>Liriodendron tulipifera</i>	Tulip Poplar	27.0	Good	Some broken branches	
SP-71	<i>Liriodendron tulipifera</i>	Tulip Poplar	33.0	Good		
SP-72	<i>Quercus rubra</i>	Northern Red Oak	30.0	Good		
SP-73	<i>Liriodendron tulipifera</i>	Tulip Poplar	28.0	Good		

Property Name: Brookeville Tower	
Location: Brookeville, Montgomery County, MD	
Prepared By: KM, SD, RS	Date: 10/24/2019
Stand Variable	Mixed Hardwood Stand #A
1. Dominant/Codominant species	Dominant: <i>Juglans nigra</i> , <i>Quercus phellos</i>
2. Successional stage	Mid-Late
3. Basal area in square feet per acre	110
4. Size class of dominant species	2-5.9", 6-11.9", 12-1.9", 20-29.9", 30+"
5. Percent of canopy closure	75%
6. Number of tree species per acre	2
7. Common understory species per acre	<i>Vitis labrusca</i> , <i>Hedera helix</i> , <i>Phytolacca decandra</i> , <i>Celastrus orbiculatus</i>
8. Percent of understory cover 3' to 10' tall	50%
9. Number of woody plants species 3' to 20' tall	18
10. Common herbaceous species 0' to 3' tall	<i>Lonicera japonica</i> , <i>Rosa multiflora</i> , <i>Microstegium vimineum</i> , <i>Festuca species</i> , <i>Toxicodendron radicans</i> , <i>Perilla frutescens</i> , <i>Polygonum pennsylvanicum</i> , <i>Oplismenus hirtellus</i> , <i>Celastrus orbiculatus</i>
11. Percent of herbaceous and woody plant cover 0' to 3' tall	33%
12. List of major invasive plant species and percent cover	<i>Lonicera japonica</i> , <i>Rosa multiflora</i> , <i>Celastrus orbiculatus</i> , <i>Microstegium vimineum</i> , <i>Rubus species</i> , <i>Hedera helix</i> , <i>Berberis thunbergii</i> , <i>Perilla frutescens</i> – 40%
13. Number of standing dead trees 6" dbh or greater	1
14. Comments	Some debris (concrete and trash piles), moderate woody debris
Forest Stand Summary Worksheet Sheet __ of __	

Property Name: Brookeville Tower	
Location: Brookeville, Montgomery County, MD	
Prepared By: KM, SD, RS	Date: 10/24/2019
Stand Variable	Mixed Oak Stand #B
1. Dominant/Codominant species	Dominant: <i>Quercus alba</i> , <i>Quercus montana</i> , <i>Quercus rubra</i>  Codominant: <i>Nyssa sylvatica</i> , <i>Juglans nigra</i> , <i>Quercus phellos</i> , <i>Acer rubrum</i>
2. Successional stage	Mid
3. Basal area in square feet per acre	60
4. Size class of dominant species	6-12, 12-20, 20-30
5. Percent of canopy closure	75%
6. Number of tree species per acre	7
7. Common understory species per acre	<i>Rosa multiflora</i> , <i>Perilla frutescens</i> , <i>Phytolacca decandra</i>
8. Percent of understory cover 3' to 10' tall	5%
9. Number of woody plants species 3' to 20' tall	9
10. Common herbaceous species 0' to 3' tall	<i>Rosa multiflora</i> , <i>Perilla frutescens</i> , <i>Festuca species</i>
11. Percent of herbaceous and woody plant cover 0' to 3' tall	30%
12. List of major invasive plant species and percent cover	<i>Rosa multiflora</i> , <i>Perilla frutescens</i> – 10%
13. Number of standing dead trees 6" dbh or greater	0
14. Comments	Minimal leaf litter, moderate downed woody debris
Forest Stand Summary Worksheet Sheet __ of __	

Property Name: Brookeville Tower	
Location: Brookeville, Montgomery County, MD	
Prepared By: KM, SD, RS	Date: 10/24/2019
Stand Variable	Red Maple-Tulip Poplar Stand #C
1. Dominant/Codominant species	Dominant: <i>Acer rubrum</i> , <i>Liriodendron tulipifera</i>  Codominant: <i>Nyssa sylvatica</i> , <i>Prunus serotina</i>
2. Successional stage	Early
3. Basal area in square feet per acre	50
4. Size class of dominant species	6-12, 12-20, 20-30
5. Percent of canopy closure	80%
6. Number of tree species per acre	4
7. Common understory species per acre	<i>Phytolacca decandra</i> , <i>Vitis labrusca</i> , <i>Toxicodendron radicans</i> , <i>Rosa multiflora</i> , <i>Celastrus orbiculatus</i> , <i>Lindera benzoin</i> , <i>Nyssa sylvatica</i>
8. Percent of understory cover 3' to 10' tall	10%
9. Number of woody plants species 3' to 20' tall	10
10. Common herbaceous species 0' to 3' tall	<i>Polygonum pennsylvanicum</i> , <i>Microstegium vimineum</i> , <i>Panicum virgatum</i> , <i>Onoclea sensibilis</i> , <i>Boehmeria cylindrica</i> , <i>Impatiens capensis</i> , <i>Parthenocisus quinquefolia</i> , <i>Toxicodendron radicans</i> , <i>Circaea lutetiana</i> , <i>Perilla frutescens</i>
11. Percent of herbaceous and woody plant cover 0' to 3' tall	90%
12. List of major invasive plant species and percent cover	<i>Rosa multiflora</i> , <i>Celastrus orbiculatus</i> , <i>Microstegium vimineum</i> , <i>Perilla frutescens</i> - 5%
13. Number of standing dead trees 6" dbh or greater	0
14. Comments	Deer/cow path traverses, 1/2" leaf litter, minimal woody debris
Forest Stand Summary Worksheet Sheet __ of __	

- GENERAL NOTES:
- THE AREA OF ENVIRONMENTAL FOCUS ENCOMPASSES THE PROPOSED ACCESS PATH (EXISTING DRIVE), PROPOSED TOWER COMPOUND, AND A 100 FOOT BUFFER AROUND THEM.
  - THIS SITE IS ZONED AR (AGRICULTURAL RESERVE).
  - THE SOURCE OF THE PROPERTY BOUNDARIES ON THIS PLAN ARE FROM TAX MAPS AND DEEDS AND MONTGOMERY COUNTY GIS OPEN DATA PORTAL.
  - THE TOPOGRAPHY SHOWN ON THIS PLAN IS FROM POTOMAC VALLEY SURVEY AND MONTGOMERY COUNTY GIS OPEN DATA PORTAL, 2017.
  - THE SOURCE OF THE SOILS INFORMATION ON THIS PLAN IS FROM THE USDA NRCS WEB SOIL SURVEY (WSS) IN A CUSTOM SOIL RESOURCE REPORT FOR AN AREA OF INTEREST (AOI) ESTABLISHED FOR THE SUBJECT SITE ONLY AND GENERATED ON NOVEMBER 25, 2019.
  - THE SUBJECT PROPERTY IS NOT WITHIN THE 100-YEAR FEMA FLOODPLAIN.
  - THE WETLAND AND STREAM INFORMATION ON THIS PLAN IS FROM NWI GIS AND COUNTY HYDROLOGY GIS.
  - THIS SITE DOES NOT CONTAIN WETLANDS OF SPECIAL STATE CONCERN AS DEFINED IN COMAR 26.23.06.01.
  - THIS PROJECT IS WITHIN THE ROCKY GORGE DAM WATERSHED (02131107).
  - THE NEAREST WATERWAY IS AN UNNAMED TRIBUTARY TO REDDY BRANCH AND HAS A USE CLASS OF IV-P.
  - THIS SITE IS NOT WITHIN A SENSITIVE SPECIES PROTECTION REVIEW AREA BASED ON A REVIEW OF THE SSPRA GIS LAYER PREPARED BY THE HERITAGE AND WILDLIFE SERVICE, MARYLAND DEPARTMENT OF NATURAL RESOURCES.
  - THE SITE IS NOT WITHIN A SPECIAL PROTECTION AREA.
  - THE SITE IS LOCATED WITHIN THE PATUXENT PRIMARY MANAGEMENT AREA.
  - THE SITE DOES INCLUDE FOREST INTERIOR DWELLING SPECIES HABITAT.
  - THE SUBJECT PROPERTY IS NOT A HISTORIC PROPERTY OR PLACE.
  - NO RARE, THREATENED, OR ENDANGERED SPECIES WERE IDENTIFIED DURING THE FIELD INVESTIGATIONS.
  - INQUIRIES WERE SENT TO MARYLAND DEPARTMENT OF NATURAL RESOURCES (MDNR) AND U.S. FISH AND WILDLIFE SERVICE (USFWS) REGARDING RARE, THREATENED, AND ENDANGERED SPECIES WITHIN OR ADJACENT TO THE PROJECT AREA. A RESPONSE IS PENDING FROM MDNR. USFWS RESPONDED THAT THE NORTHERN LONG-EARED BAT (*MYOTIS SEPTENTRIONALIS*) AND THE YELLOW LANCE CLAM (*ELLIPITO LANCEOLATA*) ARE LISTED AS THREATENED, WHILE TWO SPECIES ARE LISTED AS THREATENED, THERE ARE NO CRITICAL HABITATS WITHIN THE PROJECT AREA.
  - \* DENOTES THAT RESOURCE EXTENDS BEYOND SUBJECT PROPERTY.
  - EXISTING ROADWAYS WILL BE USED FOR ACCESS TO THE PROPOSED TOWER LOCATION.
  - THE STREAM BUFFER SHOWN IS EXPANDED TO INCLUDE THE HIGHLY ERODIBLE SOILS (1B, 1C, 2B, 2C, 4B, 5B, 16C, 16D, AND 116E) THAT COVER THE MAJORITY OF THE STUDY AREA.

- FOREST NOTES:
- FORESTS WERE DELINEATED BY KATIE MYERS, BECKY STREETT, AND SHARON DORSEY OF KCI TECHNOLOGIES, INC. ON OCTOBER 24, 2019.
  - THERE ARE 73 SPECIMEN, CHAMPION AND/OR HISTORIC TREES LOCATED WITHIN THE AREA OF ENVIRONMENTAL FOCUS. TREES WITHIN THIS AREA WERE MEASURED USING A DBH (DIAMETER AT BREAST HEIGHT) TAPE. TREE LOCATIONS WERE FIELD SURVEYED BY GPS (SUBMETER ACCURACY).
  - THREE FOREST STANDS (STANDS A, B, AND C) WERE IDENTIFIED WITHIN THE PROJECT STUDY AREA. BOTH STANDS WERE IDENTIFIED AS A PRIORITY RETENTION AREA DUE TO SPECIMEN TREES.
  - STAND A IS A MID-LATE SUCCESSIONAL MIXED HARDWOOD FOREST STAND DOMINATED BY JUGLANS NIGRA AND *QUERCUS PHELLOS* IN THE 2-6, 6-12, 12-20, 20-30 AND 30+\"

STAND B IS A MID SUCCESSIONAL MIXED OAK FOREST STAND DOMINATED BY *QUERCUS ALBA*, *QUERCUS MONTANA*, AND *QUERCUS RUBRA* IN THE 6-12, 12-20, AND 20-30\"

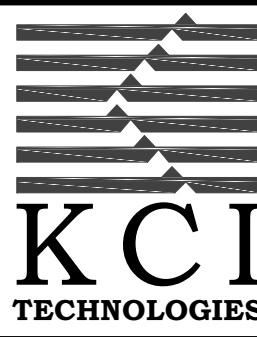
STAND B IS AN EARLY SUCCESSIONAL RED MAPLE-TULIP POPLAR FOREST STAND DOMINATED BY *ACER RUBRUM* AND, *LIRIODENDRON TULIPIFERA* IN THE 6-12, 12-20, AND 20-30\"

THIS PLAN WAS PREPARED BY:  
AMANDA WAGONER  
KCI TECHNOLOGIES, INC.  
MDNR QUALIFIED PROFESSIONAL  
(JUNE 2014)

*Amanda Wagoner*  
SIGNATURE  
JANUARY 2020  
DATE

SOILS TABLE				
Soil Symbol	Soil Unit Name	Percent Slope	K <sub>s</sub> value	Hydric (Y/N)
1B	Gailla silt loam	3-8	0.43	No
1C	Gailla silt loam	8-15	0.43	No
2B	Glenelig silt loam	3-8	0.37	No
2C	Glenelig silt loam	8-15	0.37	No
4B	Eloak silt loam	3-8	0.37	No
5A	Glenville silt loam	0-3	0.37	No
5B	Glenville silt loam	3-8	0.37	No
6A	Baile silt loam	0-3	0.37	Yes
16C	Brinklow-Blocktown Channery silt loam	8-15	0.43	No
16D	Brinklow-Blocktown Channery silt loam	15-25	0.37	No
116E	Blocktown Channery silt loam, very rock	25-45	0.49	No

NOTE:  
ALL SOILS ARE CONSIDERED HIGHLY ERODIBLE EXCEPT 5A AND 6A. THE STREAM BUFFER HAS BEEN EXPANDED TO INCLUDE THE HIGHLY ERODIBLE SOILS.



ENGINEERS

PLANNERS

SCIENTISTS

CONSTRUCTION MANAGERS

936 RIDGEBROOK ROAD

SPRINGFIELD, MD 21152

PHONE: (410) 316-7800

FAX: (410) 316-7817

www.kci.com

REVIEWS				DATE
NO.	DATE	DESCRIPTION	BY	JANUARY 2020
				SCALE
				CHECKED BY
				JB
				DRAWN BY
				AW

APPLICANT: RADIO COMMUNICATIONS SERVICES (DEPARTMENT OF TECHNOLOGY SERVICES)  
PLAN NUMBER: 420200990  
BROOKEVILLE ROAD PROPOSED TOWER  
SIMPLIFIED FOREST STAND DELINEATION/  
NATURAL RESOURCES INVENTORY MAP  
4301 BROOKEVILLE ROAD BROOKEVILLE, MARYLAND 20833  
MONTGOMERY COUNTY

DRAWING NO.  
  
NRI-GN  
  
SHEET 4 OF 4  
KCI JOB NUMBER  
011702908.06