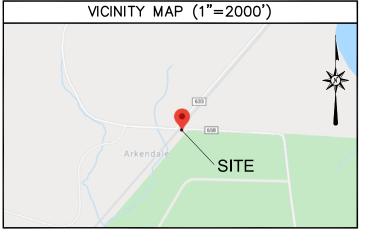


ZONING DRAWINGS



CITY SWITCH SITE ID: VAC003 **CITY SWITCH SITE NAME: BRENT MARSH** SITE ADDRESS: **BRENT POINT ROAD** ARKENDALE, VA 22554

NOTE: ANY CHANGES TO THE APPROVED PLANS MUST BE APPROVED BY THE PROPERTY OWNER.



INFRASTRUCTURE SERVICES 6521 MERIDIEN DRIVE RALEIGH, NC 27616 PHONE: (919)-755-1012 FAX: (919)-755-1031

CITYSWITCH

1900 CENTURY PLACE, SUITE 320 ATLANTA, GA 30345

PREPARED FOR

DRAWN BY:	KWJ
CHECKED B'	JRB

SUBMITTALS					
DATE	DESCRIPTION	REV	ISSUED BY		
4/10/20	ZONING DRAWINGS	Α	JRB		

THE INFORMATION CONTAINED IN THIS SET OF DOCUMENTS IS PROPRIETARY BY NATURE. REPRODUCTION OR CAUSING TO BE REPRODUCED THE WHOLE OR ANY PART OF THESE DRAWINGS WITHOUT THE PERMISSION OF FDH INFRASTRUCTURE SERVICES IS PROHIBITED.

SITE NAME:

BRENT MARSH

SITE LOCATION: **BRENT POINT ROAD**

ARKENDALE, VA 22554

SITE NUMBER VAC003

SHEET TITLE TITLE SHEET

SHEET NUMBER

T-1

SITE SUMMARY

SITE TYPE: NEW SITE DESIGN TOWER TYPE: MONOPOLE TOWER HEIGHT: 195'-0" APPURTENANCE HEIGHT: 199'-0"

TYPE OF OCCUPANCY: TELECOMMUNICATIONS TOWER LATITUDE: 38*26'17.29"N (N 38.438128*)

77°20′16.91″W (W 77.338031°) TOWER LONGITUDE: ZONING JURISDICTION: STAFFORD COUNTY

COUNTY: STAFFORD COUNTY PARCEL NUMBER: (SEE SURVEY)

ZONED: PARCEL SIZE: 341 ACRES LEASE AREA SIZE: 2,500± SQ.FT.

POWER COMPANY: DOMINION ENERGY CONTACT TELEPHONE COMPANY: TBD

CONTACT:

PROJECT DIRECTORY

LAND OWNER: CSX TRANSPORTATION, INC. 500 WATER ST (C910)

JACKSONVILLE, FL 32202

CO-APPLICANT/CARRIER:

APPLICANT/TOWER OWNER: CITY SWITCH II, LLC

1900 CENTURY PLACE, SUITE 320 ATLANTA, GA 30345 CONTACT: KEVIN SASO PHONE: (404) 857-0858

SITE DESIGN: FDH INFRASTRUCTURE SERVICES

6521 MERIDIEN DRIVE RALFIGH, NC 27616

CONTACT: JAMES R. BILLUPS, PE, CFM

PHONE: (919) 755-1012

CODE COMPLIANCE

DIRECTIONS

TAKE GEORGE WASHINGTON MEMORIAL PKWY TO I-395 S. TAKE THE I-395 S EXIT FROM GEORGE WASHINGTON MEMORIAL PKWY. TAKE THE I-395 S EXIT TOWARD RICHMOND. KEEP LEFT AT THE FORK TO CONTINUE ON EXIT 10A, FOLLOW SIGNS FOR

BOUNDRY CHANNEL AND MERGE ONTO 1-395 S. MERGE ONTO 1-95 S. KEEP RIGHT TO STAY ON 1-95 S. TAKE EXIT 150A TO

MERGE ONTO VA-619 E/JOPLIN RD TOWARD TRIANGLE/QUANTICO. TURN RIGHT TOWARD US-1 S. SLIGHT RIGHT ONTO US-1

TURN LEFT ONTO TELEGRAPH RD. TURN LEFT ONTO WIDEWATER RD. CONTINUE ONTO ARKENDALE RD. TURN LEFT ONTO

ALL WORK AND MATERIALS SHALL BE PERFORMED AND INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THE LATEST EDITIONS OF THE FOLLOWING:

- MICHIGAN BUILDING CODE
- ANSI/TIA/EIA-222-G
- NATIONAL ELECTRIC CODE LOCAL BUILDING CODE
- CITY/COUNTY ORDINANCES
- 2012 INTERNATIONAL RESIDENTIAL CODE
- 2012 INTERNATIONAL BUILDING CODE

FROM RONALD REAGAN INTERNATIONAL AIRPORT:

BRENT POINT RD. DESTINATION WILL BE ON THE RIGHT.

- 2012 INTERNATIONAL FIRE CODE
- 2012 INTERNATIONAL PLUMBING CODE 10. 2012 INTERNATIONAL MECHANICAL CODE
- 11. 2012 INTERNATIONAL FUEL GAS CODE
- 2009 INTERNATIONAL ENERGY CONSERVATION CODE
- 13. 2011 NATIONAL ELECTRICAL CODE14. 2009 INTERNATIONAL WILDLAND-URBAN INTERFACE CODE

GENERAL NOTES

THE FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION, THEREFORE HANDICAP ACCESS IS NOT REQUIRED. A TECHNICIAN WILL VISIT THE SITE AS REQUIRED FOR ROUTINE MAINTENANCE. THE PROJECT WILL NOT RESULT IN ANY SIGNIFICANT DISTURBANCE OR EFFECT ON DRAINAGE; NO SANITARY SEWER SERVICE, POTABLE WATER, OR TRASH DISPOSAL IS REQUIRED AND NO COMMERCIAL SIGNAGE IS PROPOSED



UNDERGROUND SERVICE ALERT

UTILITIES PROTECTION CENTER, INC.

48 HOURS BEFORE YOU DIG

LEGAL DESCRIPTION

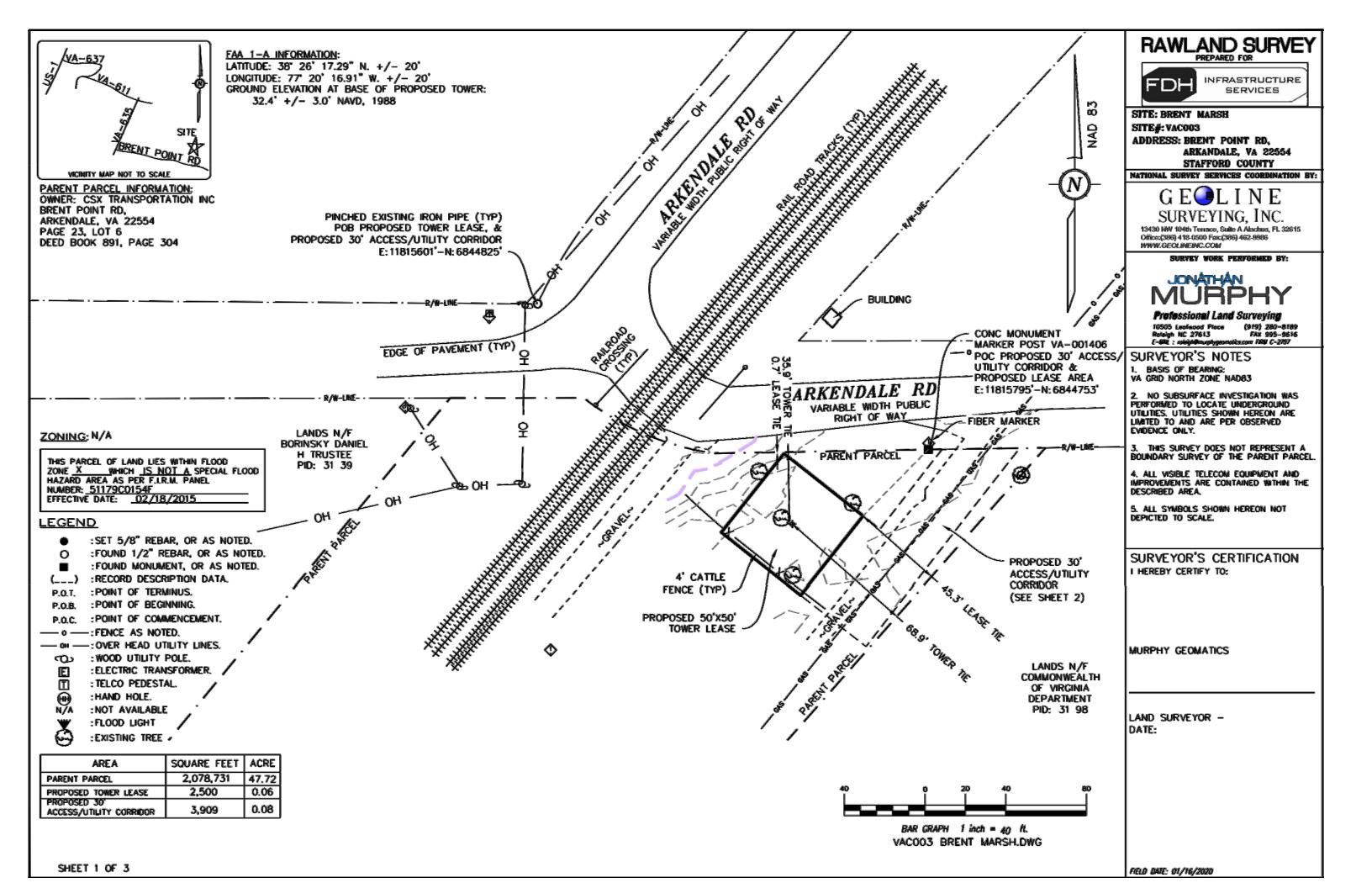
REFER TO TOPOGRAPHICAL SURVEY AND SITE PLAN FOR LEGAL DESCRIPTION OF PARENT PARCEL AND LEASE AREA.

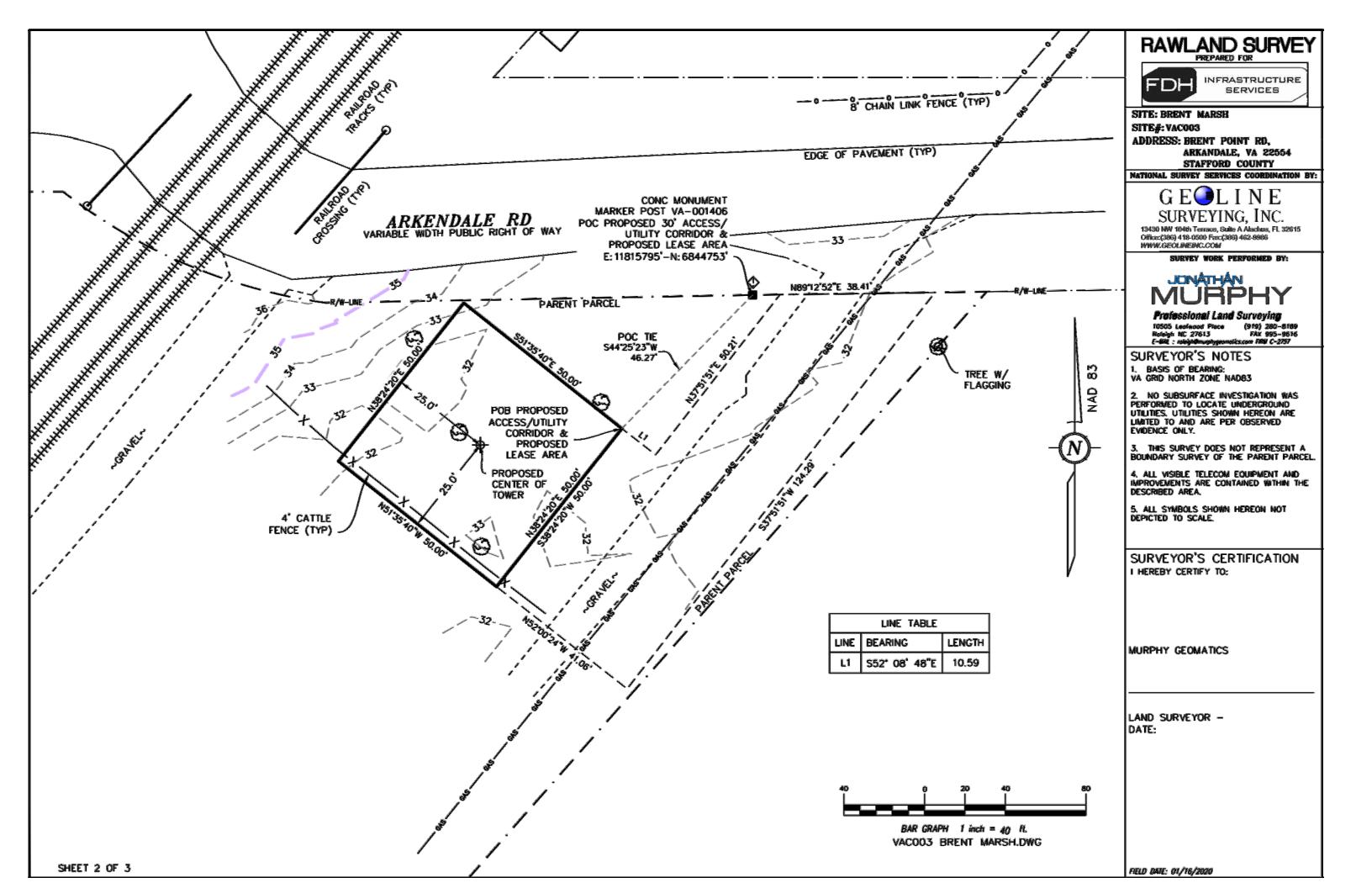
APPROVALS		
TITLE	SIGNATURE	DATE
REPRESENTATIVE		
SITE OWNER		

SCOPE OF WORK

CITY SWITCH PROPOSES TO INSTALL AN UNMANNED TELECOMMUNICATIONS FACILITY CONSISTING OF A 195'-0" MONOPOLE TOWER WITH 4' LIGHTNING ROD. THE TOWER WILL BE PLACED INSIDE A FENCED COMPOUND, INSIDE A LEASE AREA.

	SHEET INDEX				
SHEET NO.	DESCRIPTION	REV. NO.	REVISION DATE		
T-1	TITLE SHEET	А	4/10/2020		
S-1	SURVEY SHEET	Α	4/10/2020		
S-2	SURVEY SHEET	Α	4/10/2020		
S-3	SURVEY SHEET	Α	4/10/2020		
GN-1	GENERAL NOTES	Α	4/10/2020		
GN-2	GENERAL NOTES	А	4/10/2020		
C-1	OVERALL SITE PLAN	А	4/10/2020		
C-2	COMPOUND PLAN	А	4/10/2020		
C-3	FENCE DETAILS	А	4/10/2020		





LEGAL DESCRIPTION: PROPOSED LEASE AREA (CREATED BY THIS OFFICE)

A PORTION OF ALL THAT CERTAIN PARCEL OF LAND LYING IN THE UNINCORPORATED COMMUNITY OF ARKENDALE, COUNTY OF STAFFORD, STATE OF VIRGINIA, DESCRIBED IN DEED BOOK 891 PAGE 304, FURTHER DESCRIBED AS:

COMMENCING FROM AN EXISTING CONCRETE MONUMENT, MARKER POST VA-001406, FOUND ON THE SOUTHERN RIGHT OF WAY OF AKENDALE RD, A DEDICATED PUBLIC RIGHT OF WAY, AND HAVING VIRGINIA NORTH STATE PLANE COORDINATES E:11815765' -AND- N:6844753";

THENCE, DEPARTING SAID RIGHT OF WAY, S 44" 25" 23" W FOR A DISTANCE OF 46.27 FEET TO THE POINT OF BEGINNING;

THENCE, S 38' 24' 20" W FOR A DISTANCE OF 50.00 FEET TO A POINT;

THENCE, N 51" 35" 40" W FOR A DISTANCE OF 50.00 FEET TO A POINT;

THENCE, N 38° 24° 20" E FOR A DISTANCE OF 50.00 FEET TO A POINT;

THENCE, S 51" 35" 40" E FOR A DISTANCE OF 50.00 FEET TO THE POINT OF BEGINNING CONTAINING 2,500 SQFT -OR- 0.06

LEGAL DESCRIPTION: PROPOSED ACCESS/UTILITY CORRIDOR (CREATED BY THIS OFFICE)

A PORTION OF ALL THAT CERTAIN PARCEL OF LAND LYING IN THE UNINCORPORATED COMMUNITY OF ARKENDALE, COUNTY OF STAFFORD, STATE OF VIRGINIA, DESCRIBED IN DEED BOOK 891 PAGE 304, FURTHER DESCRIBED AS:

COMMENCING FROM AN EXISTING CONCRETE MONUMENT, MARKER POST VA-001406, FOUND ON THE SOUTHERN RICHT OF WAY OF AKENDALE RD, A DEDICATED PUBLIC RIGHT OF WAY, AND HAVING VIRGINIA NORTH STATE PLANE COORDINATES E:11815765' -AND- N:6844753":

THENCE, DEPARTING SAID RIGHT OF WAY, S 44° 25' 23" W FOR A DISTANCE OF 46.27 FEET TO A POINT ON A PROPOSED 2,500 SQFT LEASE AREA, SAID POINT ALSO BEING THE POINT OF BEGINNING;

THENCE, DEPARTING SAID LEASE AREA, S 52' 08' 48" E FOR A DISTANCE OF 10.59 FEET TO A POINT;

THENCE, N 37" 51" E FOR A DISTANCE OF 50.21 FEET TO A POINT ON THE PREVIOUSLY MENTIONED RIGHT OF WAY;

THENCE, ALONG SAID RIGHT OF WAY, N 89" 12" 52" E FOR A DISTANCE OF 38.41 FEET TO A POINT;

THENCE, DEPARTING SAID RIGHT OF WAY, S 37" 51" W FOR A DISTANCE OF 124.29 FEET TO A POINT;

THENCE, N 52" 00" 24" W FOR A DISTANCE OF 41.06 FEET TO A POINT ON THE PREVIOUSLY MENTIONED LEASE AREA;

THENCE, ALONG SAID LEASE AREA, N 38° 24° 20" E FOR A DISTANCE OF 50.00 FEET TO THE POINT OF BEGINNING CONTAINING 3,909 SQFT -OR- 0.08 ACRES.

TITLE REVIEW TO BE COMPLETE UPON DELIVERY.





SITE: BRENT MARSH

SITE#: VACOO3

ADDRESS: BRENT POINT RD, ARKANDALE, VA 22554 STAFFORD COUNTY

NATIONAL SURVEY SERVICES COORDINATION BY:



13430 NW 104th Terrace, Suite A Alachua, FL 32615 Office:(386) 418-0500 Fax:(386) 462-9986 WWW.GEOLBREBIC.COM

SURVEY WORK PERFORMED BY:



10505 Lealwood Place (919) 280-8189 Roleigh NC 27613 FAX 995-9616 Roleigh NC 27613 FAX 995-9671 E-MAL: roleigh@murphygeomolics.com FRM C-2757

SURVEYOR'S NOTES BASIS OF BEARING: VA GRID NORTH ZONE NAD83

- 2. NO SUBSURFACE INVESTIGATION WAS PERFORMED TO LOCATE UNDERGROUND UTILITIES, UTILITIES SHOWN HEREON ARE LIMITED TO AND ARE PER OBSERVED EVIDENCE ONLY.
- 3. THIS SURVEY DOES NOT REPRESENT A BOUNDARY SURVEY OF THE PARENT PARCEL.
- 4. ALL VISIBLE TELECOM EQUIPMENT AND IMPROVEMENTS ARE CONTAINED WITHIN THE DESCRIBED AREA.
- 5. ALL SYMBOLS SHOWN HEREON NOT DEPICTED TO SCALE.

SURVEYOR'S CERTIFICATION I HEREBY CERTIFY TO:

MURPHY GEOMATICS

LAND SURVEYOR -DATE:

FIELD DATE: 01/16/2020

GENERAL NOTES:

- 1. EVERY EFFORT HAS BEEN MADE IN THE CONSTRUCTION DOCUMENTS TO PROVIDE A COMPLETE SCOPE OF WORK. MINOR DISCREPANCIES IN THE DRAWINGS AND/OR SPECIFICATIONS SHALL NOT EXCUSE CONTRACTORS FROM COMPLETING THE PROJECT AND IMPROVEMENTS IN ACCORDANCE WITH THE INTENT OF THESE DOCUMENTS.
- 2 BIDDING REQUIREMENTS
 - a. PRIOR TO THE SUBMISSION OF BIDS, VISIT THE JOB SITE TO BECOME FAMILIAR WITH ALL CONDITIONS AFFECTING THE PROPOSED PROJECT. VISIT THE SITE WITH THE CONSTRUCTION DOCUMENTS TO VERIFY FIELD DIMENSIONS AND CONDITIONS TO CONFIRM THAT THE PROJECT WILL BE ACCOMPLISHED AS SHOWN.
 - b. PROVIDE NOTIFICATION TO OWNER'S REPRESENTATIVE IN WRITING OF ANY CONFLICTS, ERRORS, OR OMISSIONS PRIOR TO SUBMISSION OF PRICE PROPOSAL. IN THE EVENT OF DISCREPANCIES, PRICE THE MORE COSTLY OR EXTENSIVE WORK, UNLESS DIRECTED OTHERWISE
 - c. WHEN TOWER IS OWNED BY A THIRD PARTY, CONTACT TOWER OWNER REPRESENTATIVE FOR PARTICIPATION IN BID WALK.
 - d. WHERE ANCHORING TO A CONCRETE ROOF SLAB, CONFIRM (PRIOR TO SUBMITTING BID) THE PRESENCE OF POST TENSION TENDONS. INCLUDE PROVISIONS FOR X-RAY PROCEDURES TO LOCATE THE TENDONS PRIOR TO CONSTRUCTION.
- 3. DRAWINGS ARE NOT TO BE SCALED. WRITTEN DIMENSIONS TAKE PRECEDENCE. CONSTRUCTION DOCUMENTS ARE INTENDED FOR DIAGRAMMATIC PURPOSES ONLY, UNO.
- 4. FURNISH ALL MATERIALS, EQUIPMENT, LABOR, AND ANY REQUIREMENTS NECESSARY TO COMPLETE PROJECT AS DESCRIBED IN THE CONSTRUCTION DOCUMENTS
- 5. SUPERVISE AND DIRECT THE PROJECT DESCRIBED IN THE CONSTRUCTION DOCUMENTS. PROVIDE ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.
- 6. ALL WORK PERFORMED ON THE PROJECT AND MATERIALS INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES. GIVE ALL NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY, MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS, AND LOCAL AND STATE JURISDICTIONAL CODES APPLICABLE TO THE WORK.
- 7. CONSTRUCTION COORDINATION REQUIREMENTS
 - a. NOTIFY OWNER'S REPRESENTATIVE OF ANY DISCREPANCIES PRIOR TO START OF
 - b. OBTAIN ALL PERMITS. SCHEDULE AND COORDINATE ALL INSPECTIONS.
 - c. PROVIDE, AT THE PROJECT SITE, A FULL, CURRENT SET OF CONSTRUCTION DOCUMENTS FOR USE BY ALL PERSONNEL INVOLVED WITH THE PROJECT.
 - d. RECEIVE WRITTEN AUTHORIZATION TO PROCEED WITH CONSTRUCTION PRIOR TO STARTING WORK ON ANY ITEM NOT CLEARLY DEFINED BY THE CONSTRUCTION DOCUMENTS
 - e. PERFORM WORK DURING OWNER'S PREFERRED HOURS TO AVOID DISTURBING NORMAL BUSINESS.
 - f. PROVIDE FALL PROTECTION IN ACCORDANCE WITH FEDERAL, STATE, LOCAL, AND OWNER REQUIREMENTS.
 - g. IF FAA LIGHTING AND MARKING IS PRESENT ON SITE AND IS POWERED BY ELECTRICAL SERVICE THAT IS TO BE INTERRUPTED, MAINTAIN THE NECESSARY LIGHTS DURING CONSTRUCTION AND NOTIFY THE PROPER AUTHORITIES IN THE EVENT OF A DISRUPTION.
 - h, PROVIDE A PORTABLE FIRE EXTINGUISHER WITH A RATING OF NOT LESS THAN 2-A OR 2-A10BC WITHIN 75 FEET TRAVEL DISTANCE TO ALL PORTIONS OF PROJECT AREA DURING CONSTRUCTION.
 - i. STRUCTURAL COMPONENTS OF ADJACENT FACILITIES SHALL NOT BE ALTERED BY THIS CONSTRUCTION PROJECT, UNO. ENSURE THAT EXCAVATION DOES NOT AFFECT ADJACENT STRUCTURES.
 - j. SEAL ALL PENETRATIONS THROUGH FIRE-RATED AREAS WITH U.L. LISTED OR FIRE MARSHALL-APPROVED MATERIALS, IF APPLICABLE.
 - k. BURIED UTILITIES MAY EXIST IN THE AREA AND UTILITY INFORMATION SHOWN MAY NOT BE COMPLETE. CONTACT THE UTILITY LOCATE SERVICE A MINIMUM OF 48 HOURS PRIOR TO CONSTRUCTION.
 - I. COORDINATE ALL POWER INSTALLATION WITH POWER COMPANY AS REQUIRED. REPORT POWER INSTALLATION COORDINATION SOLUTION(S) TO OWNER'S REPRESENTATIVE.
 - m. PROTECT EXISTING IMPROVEMENTS, EASEMENTS, PAVING, CURBING, ETC. DURING CONSTRUCTION. UPON COMPLETION OF WORK, REPAIR ANY DAMAGE THAT MAY HAVE OCCURRED DUE TO CONSTRUCTION ON OR ABOUT THE PROPERTY.
 - n. KEEP GENERAL WORK AREA CLEAN AND HAZARD FREE DURING CONSTRUCTION AND DISPOSE OF ALL DIRT, DEBRIS, AND RUBBISH. REMOVE EQUIPMENT NOT SPECIFIED AS REMAINING ON THE PROPERTY OR PREMISES. SITE SHALL BE LEFT IN CLEAN CONDITION AND FREE FROM PAINT SPOTS, DUST, OR SMUDGES OF ANY NATURE.
 - o. MAINTAIN THE INTEGRITY OF THE BUILDING ENVELOPE AND CONSTRUCT BARRIERS IN THE AREA OF WORK TO PREVENT DAMAGE FROM WEATHER AS WELL AS FROM CONSTRUCTION DUST AND DEBRIS.
- 8. INSTALL ALL EQUIPMENT AND MATERIALS ACCORDING TO MANUFACTURER'S SPECIFICATIONS, UNO, OR WHERE LOCAL CODES OR ORDINANCES DIRECT OTHERWISE.

- 9. ANY SUBSTITUTIONS OF MATERIALS AND/OR EQUIPMENT, MUST BE APPROVED BY OWNER'S REPRESENTATIVE
- 10. DOCUMENT ALL CHANGES MADE IN THE FIELD BY MARKING UP THE APPROVED CONSTRUCTION DRAWINGS AND SUBMITTING THE REDLINED SET TO OWNER'S REPRESENTATIVE UPON COMPLETION. DOCUMENT ALL WORK PERFORMED WITH PHOTOGRAPHS TO BE SUBMITTED WITH REDLINED CONSTRUCTION DRAWINGS.
- 11. PROVIDE SUPPORTS FOR CABLES TO THE ELEVATION OF ALL INITIAL AND FUTURE ANTENNAS IN ACCORDANCE WITH ALL MANUFACTURER'S REQUIREMENTS.
- 12. A STRUCTURAL ANALYSIS AND A MOUNT ANALYSIS (IF REQUIRED) TO DETERMINE THE STRUCTURAL CAPACITY TO SUPPORT THIS PROPOSED EQUIPMENT WAS PERFORMED OUTSIDE THE SCOPE OF THIS PROJECT.
- 13. CONFIRM THAT THE REQUIREMENTS OF THE STRUCTURAL ANALYSIS, MOUNT ANALYSIS AND ANY ASSOCIATED MODIFICATIONS HAVE BEEN FOLLOWED AND COMPLETED AS REQUIRED TO SUPPORT THE EQUIPMENT ASSOCIATED WITH THIS PROJECT.

SPECIAL INSPECTIONS:

- 1. WHEN REQUIRED, PROVIDE SPECIAL INSPECTIONS PERFORMED BY AN INDEPENDENT INSPECTOR, APPROVED BY OWNER'S REPRESENTATIVE AND THE LOCAL JURISDICTION.
- 2. THE SPECIAL INSPECTOR SHALL PROVIDE A COPY OF THE REPORT TO THE OWNER'S REPRESENTATIVE, STRUCTURAL ENGINEER, CONTRACTOR, AND BUILDING OFFICIAL.

	<u>ABBREVIATIO</u>	<u> SNC</u>	
A/C	AIR CONDITIONING	LBS	POUNDS
AFF	ABOVE FINISHED FLOOR	LTE	LONG TERM EVOLUTION
AGL	ABOVE GROUND LEVEL,	MAX	MAXIMUM
	ABOVE GRADE LEVEL	MECH	MECHANICAL
AWS	ADVANCED WIRELESS SERVICE	MTL	METAL
BBU	BATTERY BACKUP UNIT	MFR	MANUFACTURE
BLDG	BUILDING	MGR	MANAGER
BLK	BLOCKING	MIN	MINIMUM
CLG	CEILING	MISC	MISCELLANEOUS
CLR	CLEAR	NA	NOT APPLICABLE
CONC	CONCRETE	NIC	NOT IN CONTRACT
CONT	CONTINUOUS	NO	NUMBER
D	DEPTH	NTS	NOT TO SCALE
DBL	DOUBLE	OC	ON CENTER
DEG	DEGREE	OD	OUTSIDE DIAMETER
ø, DIA	DIAMETER	PCS	PERSONAL COMMUNICATION
DIAG	DIAGONAL		SERVICE
DN	DOWN	PDU	POWER DISTRIBUTION UNIT
DET	DETAIL	PROJ	PROJECT
DWG	DRAWING	PROP	PROPERTY
E	EXISTING	PT	PRESSURE TREATED
EA	EACH	PVC	POLYVINYL CHLORIDE
ELEV, EL	ELEVATION	REQ	REQUIRED
ELEC	ELECTRICAL	RF	RADIO FREQUENCY
EQ	EQUAL	RM	ROOM
EQUIP	EQUIPMENT	RO	ROUGH OPENING
EXT	EXTERIOR	RRH	REMOTE RADIO HEAD
FIF	FIBER INTERFACE FRAME,	SHT	SHEET
	FACILITY INTERFACE FRAME	SIM	SIMILAR
FIN	FINISH	SPEC	SPECIFICATION
FLUOR	FLUORESCENT	SF	SQUARE FOOT
FLR	FLOOR	SS	STAINLESS STEEL
FT	FOOT, FEET	STL	STEEL
GA	GAUGE	SUSP	SUSPENDED
GALV	GALVANIZED	TMA	TOWER MOUNTED AMPLIFIER
GC	GENERAL CONTRACTOR	TND	TINNED
GRND	GROUND	TYP	TYPICAL
GSM	GLOBAL SYSTEM MOBILE	UMTS	UNIVERSAL MOBILE
GYP	GYPSUM BOARD		TELECOMMUNICATION SERVIC
HORZ	HORIZONTAL	UNO	UNLESS NOTED OTHERWISE
HR	HOUR	VERT	VERTICAL
HT	HEIGHT	W/	WITH
ID	INSIDE DIAMETER	W/O	WITHOUT
IN	INCH, INCHES	wcs	WIRELESS COMMUNICATION
INSUL	INSULATION		SERVICE
INT	INTERIOR	WP	WATER PROOF
L	LENGTH		

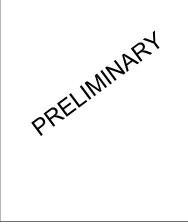
	ABBREVIATI	ONS	
/C	AIR CONDITIONING	LBS	POUNDS
FF.	ABOVE FINISHED FLOOR	LTE	LONG TERM EVOLUTION
GL.	ABOVE GROUND LEVEL.	MAX	MAXIMUM
	ABOVE GRADE LEVEL	MECH	MECHANICAL
ws	ADVANCED WIRELESS SERVICE	MTL	METAL
BU	BATTERY BACKUP UNIT	MFR	MANUFACTURE
BLDG	BUILDING	MGR	MANAGER
BLK	BLOCKING	MIN	MINIMUM
CLG	CEILING	MISC	MISCELLANEOUS
LR	CLEAR	NA	NOT APPLICABLE
ONC	CONCRETE	NIC	NOT IN CONTRACT
ONT	CONTINUOUS	NO	NUMBER
)	DEPTH	NTS	NOT TO SCALE
BL	DOUBLE	OC	ON CENTER
EG	DEGREE	OD	OUTSIDE DIAMETER
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ET	DETAIL	PROJ	PROJECT
WG	DRAWING	PROP	PROPERTY
	EXISTING	PT	PRESSURE TREATED
Ä	EACH	PVC	POLYVINYL CHLORIDE
LEV, EL	ELEVATION	REQ	REQUIRED
LEC	ELECTRICAL	RF	RADIO FREQUENCY
Q.	EQUAL	RM	ROOM
QUIP	EQUIPMENT	RO	ROUGH OPENING
XT	EXTERIOR	RRH	REMOTE RADIO HEAD
TF.	FIBER INTERFACE FRAME,	SHT	SHEET
"	FACILITY INTERFACE FRAME	SIM	SIMILAR
īN	FINISH	SPEC	SPECIFICATION
LUOR	FLUORESCENT	SF	SQUARE FOOT
LR	FLOOR	SS	STAINLESS STEEL
T	FOOT, FEET	STL	STEEL
; SA	GAUGE	SUSP	SUSPENDED
SALV	GALVANIZED	TMA	TOWER MOUNTED AMPLIFIER
SC.	GENERAL CONTRACTOR	TND	TINNED
RND	GROUND	TYP	TYPICAL
SSM	GLOBAL SYSTEM MOBILE	UMTS	UNIVERSAL MOBILE
YP	GYPSUM BOARD	00	TELECOMMUNICATION SERVICE
IORZ	HORIZONTAL	UNO	UNLESS NOTED OTHERWISE
IR	HOUR	VERT	VERTICAL
IT	HEIGHT	W/	WITH
-	TILIOTTI	**/	***************************************



1900 CENTURY PLACE, SUITE 320 ATLANTA, GA 30345



RALEIGH, NC 27616 PHONE: (919)-755-1012 FAX: (919)-755-1031



DRAWN BY:	KWJ
CHECKED BY:	JRB

	SUBMITTALS		
DATE	DESCRIPTION	REV	ISSUED BY
4/10/20	ZONING DRAWINGS	Α	JRB

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SITE NAME:

BRENT MARSH

SITE LOCATION:

BRENT POINT ROAD ARKENDALE, VA 22554

> SITE NUMBER VAC003

SHEET TITLE

GENERAL NOTES

SHEET NUMBER

GN-1

SITE NOTES:

- 1. CLEAR AND GRUB SITE OF ALL VEGETATION, PAVING, GRAVEL BASE AND OTHER DEBRIS NOT TO REMAIN. SUBGRADES ARE TO BE SET PRIOR TO LANDSCAPE INSTALLATION.
- 2. PROVIDE ELEVATION OF SUBGRADE WITHIN 0.10 FOOT OF ELEVATIONS SHOWN ON PLAN MINUS DEPTH OF TOPSOIL, FILL, AND MULCH.
- 3. ROUGH GRADE ALL AREAS WITHIN 1 FOOT OF ELEVATIONS INDICATED BEFORE PLANTING. PROVIDE POSITIVE DRAINAGE AWAY FROM EQUIPMENT SLABS, BUILDINGS AND THROUGH ALL PLANTER AREAS TO AVOID LOW SPOTS AND STANDING WATER.
- 4. REWORK (DRY, SCARIFY, ETC.) ALL MATERIAL NOT SUITABLE FOR SUB GRADE IN ITS PRESENT STATE. AFTER REWORKING, IF THE MATERIAL REMAINS UNSUITABLE, UNDERCUT AND REPLACE WITH SUITABLE MATERIAL AT CONTRACTOR'S EXPENSE. ALL SUB GRADES AND AGGREAGATE BASE COURSES SHALL BE PROOF ROLLED WITH A FULLY LOADED TANDEM DUMP TRUCK, AND ANY SOFT SPOTS SHALL BE REWORKED OR REPLACED UNTIL PASSING PROOF ROLL.
- 5. BLEND NEW GRADES NATURALLY INTO EXISTING GRADES.
- 6. MAINTAIN POSITIVE DRAINAGE ON THE SITE AT ALL TIMES, INCLUDING KEEPING ALL EXISTING AND NEW DITCHES, PIPES AND OTHER DRAINAGE STRUCTURES FREE FROM OBSTRUCTION. ANY DAMAGE RESULTING FROM FAILURE TO COMPLY SHALL BE REMEDIED BY CONTRACTOR
- IF REQUIRED, MAINTAIN CONTINUOUS EROSION CONTROL ON THE DOWNSTREAM SIDE OF THE SITE.
- 8. IN LANDSCAPE AREAS, FINISH GRADES ARE TO FOLLOW THE GRADES AND EDGE DETAILS INDICATED AND BE MOUNDED 6 INCHES IN THE CENTER OF THE BED ABOVE THE EDGE OF THE LANDSCAPE AREA.
- 9. DO NOT PLACE FILL OR EMBANKMENT MATERIAL ON FROZEN GROUND. DO NOT PLACE FROZEN MATERIALS, SNOW OR ICE IN ANY FILL OR EMBANKMENT.
- 10. NOTIFY OWNER'S REPRESENTATIVE IF MODIFICATIONS TO THE PROPOSED GRADING SEEM NECESSARY AND OBTAIN APPROVAL PRIOR TO START OF WORK.
- 11. FOOTINGS SHALL BEAR ON FIRM, NATURAL, UNDISTURBED SOIL, OR ON ENGINEERED FILL (COMPACTED TO 95% ASTM D698). ENSURE THAT EXCAVATIONS ARE FREE OF ORGANIC MATERIAL, DEBRIS, OR OTHER FOREIGN MATERIAL. NOTIFY OWNER'S REPRESENTATIVE IF ANY UNUSUAL CONDITIONS ARE ENCOUNTERED.
- 12. FILL AND SLAB BASE MATERIAL SHALL BE 3/4" MINUS CRUSHED ROCK PLACED IN 8" (MAXIMUM) LOOSE LIFTS AND COMPACTED TO 98% ASTM D698.

CONCRETE NOTES:

1. CONCRETE AND REINFORCING SHALL CONFORM TO THE FOLLOWING REQUIREMENTS:

CONCRETE CONSTRUCTION ACI 318

CEMENT ASTM C150, PORTLAND CEMENT TYPE II, UNO

REINFORCING STEEL ASTM A615 (INCLUDING SUPPLEMENT S1), GRADE 60.

fv=60 Ksi. UNO

WELDED WIRE FABRIC ASTM A185

SPIRAL REINFORCEMENT ASTM A615, GRADE 60, fy=60 KSI

ANCHOR BOLTS ASTM A307

GRADE 60 REBAR WELDING ASTM A706

NOTES: ANY BARS SO NOTED ON THE DRAWINGS SHALL BE GRADE 60, fy=60 KSI. REINFORCING COMPLYING WITH ASTM A615(S1) MAY BE WELDED ONLY IF MATERIAL PROPERTY REPORTS INDICATING CONFORMANCE WITH WELDING PROCEDURES SPECIFIED IN A.W.S. D14 ARE SUBMITTED.

2. CONCRETE PROTECTION (COVER) FOR REINFORCING STEEL SHALL BE AS FOLLOWS:

FOOTINGS AND OTHER UNFORMED SURFACES, EARTH FACE 3"
FORMED SURFACES EXPOSED TO EARTH OR WEATHER $(\ge \#6 \text{ BARS})$ 2"
FORMED SURFACES EXPOSED TO EARTH OR WEATHER $(\le \#5 \text{ BARS})$ 1-1/2"
SLABS AND WALLS (INTERIOR FACE) 3/4"

- 3. AIR ENTRAIN ALL CONCRETE WITH SURFACES EXPOSED TO WEATHER WITH AN AIR—ENTRAINING AGENT CONFORMING TO ASTM C260, C494, C618, C989 AND C1017. AIR ENTRAIN CONCRETE EXPOSED TO FREEZING AND THAWING WHILE MOIST IN ACCORDANCE WITH ACI 318, SECTION 4.4.1.
- 4. DETAIL REINFORCING STEEL (INCLUDING HOOKS AND BENDS) IN ACCORDANCE WITH ACI 315 AND 318. LAP ALL CONTINUOUS REINFORCEMENT AT LEAST 30 BAR DIAMETERS OR A MINIMUM OF 2'-0". PROVIDE CORNER BARS AT ALL WALL AND FOOTING INTERSECTIONS. LAP CORNER BARS AT LEAST 30 BAR DIAMETERS OR A MINIMUM OF 2'-0". LAP ADJACENT MATS OF WELDED WIRE FABRIC A MINIMUM OF 8" AT SIDES AND ENDS.
- PERFORM WELDING OF GRADE 60 REINFORCING BARS (IF REQUIRED) USING LOW HYDROGEN ELECTRODES. PERFORM WELDING OF GRADE 40 REINFORCING BARS (IF REQUIRED) USING E70 XX ELECTRODES. DO NOT WELD WITHIN 4" OF COLD BENDS IN REINFORCING STEEL.
- 6. DO NOT FIELD BEND REINFORCING PARTIALLY EMBEDDED IN CONCRETE UNLESS SPECIFICALLY SO DETAILED OR APPROVED BY THE ENGINEER.
- 7. SUPPORT BARS ON CHAIRS OR DOBIE BRICKS.
- 8. FURNISH NON—SHRINK GROUT BY AN APPROVED MANUFACTURER. MIX AND PLACE IN STRICT ACCORDANCE WITH THE MANUFACTURER'S PUBLISHED RECOMMENDATIONS. GROUT STRENGTH SHALL BE AT LEAST EQUAL TO THE MATERIAL ON WHICH IT IS PLACED (3 KSI, MINIMUM).
- 9. ALL EXPANSION ANCHORS TO BE HILTI BRAND, UNO. TEST ADHESIVE ANCHORS TO CONFIRM CAPACITY UNLESS WAIVED BY ENGINEER AND LOCAL JURISDICTION.

STRUCTURAL STEEL NOTES:

1. STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING REQUIREMENTS:

WIDE FLANGE SHAPES

SHAPES, PLATES, ANGLES, & RODS

SHAPES, PLATES, ANGLES, & RODS

SPECIAL SHAPES AND PLATES

PIPE COLUMNS

STRUCTURAL TUBING

ANCHOR BOLTS

CONNECTION BOLTS

ASTM A307

ASTM A325 TWIST-OFF

- 2. BASE STRUCTURAL STEEL DESIGN, FABRICATION AND ERECTION (INCLUDING FIELD WELDING, HIGH STRENGTH FIELD BOLTING, EXPANSION BOLTS, AND THREADED EXPANSION ANCHORS) ON THE AISC "SPECIFICATION FOR THE DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS" LATEST EDITION.
- 3. HOT DIP GALVANIZE AFTER FABRICATION PER A123/A123M-00 ALL STEEL EXPOSED TO WEATHER AND WHERE NOTED.
- 4. CONFORM TO ALL AISC AND AWS STANDARDS FOR WELDING. PERFORM WELDING BY ANSI/AWS D1.1 CERTIFIED WELDERS USING E70 XX ELECTRODES. USE ONLY PRE—QUALIFIED WELDS AS DEFINED BY AWS.
- 5. PROVIDE COLD—FORMED STEEL FRAMING MEMBERS OF THE SHAPE, SIZE, AND GAGE SHOWN ON THE PLANS. PROVIDE MINIMUM SECTION PROPERTIES INDICATED. ALL COLD—FORMED STEEL FRAMING SHALL CONFORM TO THE AISI "SPECIFICATION FOR THE DESIGN OF COLD—FORMED STEEL STRUCTURAL MEMBERS."
- 6. FOR BOLTED CONNECTIONS, USE 3/4" DIA., BEARING-TYPE, A325 BOLTS WITH A MINIMUM OF TWO BOLTS, UNO.
- 7. FOR NON-STRUCTURAL CONNECTIONS FOR STEEL GRATING, USE 5/8" DIA. A307 BOLTS,
- 8. PREPARE AND PAINT IN ACCORDANCE WITH THE PAINT MANUFACTURERS WRITTEN INSTRUCTIONS, UNO.
- TOUCH UP ALL FIELD DRILLING, WELDING AND CUT SURFACES WITH 2 COATS OF GALVACON (ZINC RICH PAINT) OR APPROVED EQUAL.



1900 CENTURY PLACE, SUITE 320 ATLANTA, GA 30345

PREPARED BY:

| FDH | INFRASTRUCTURE | SERVICES |

6521 MERIDIEN DRIVE RALEIGH, NC 27616 PHONE: (919)-755-1012 FAX: (919)-755-1031



DRAWN BY:	KWJ
CHECKED BY:	JRB

	SUBMITTALS				
DATE	DESCRIPTION	REV	ISSUED BY		
4/10/20	ZONING DRAWINGS	Α	JRB		

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SITE NAME:

BRENT MARSH

SITE LOCATION:

BRENT POINT ROAD ARKENDALE, VA 22554

SITE NUMBER VAC003

SHEET TITLE

GENERAL NOTES

SHEET NUMBER

GN-2

NOTES: ALL LOCATIONS WERE APPROXIMATED USING AERIAL IMAGERY & WEST VIRGINIA PROPERTY VIEWER. THIS PLAN IS SUBJECT TO ALL EASEMENTS AND RESTRICTIONS OF RECORD. 3. NO SIGNIFICANT NOISE, SMOKE, DUST, OR ODOR WILL RESULT FROM THE FACILITY IS UNMANNED AND NOT INTENDED FOR HUMAN HABITATION, THERE IS NO HANDICAP ACCESS REQUIRED. THE FACILITY IS UNMANNED AND DOES NOT REQUIRE POTABLE WATER ARKENDALE ASSOCIATES PROPERTY ID: 31_97 OR SANITARY SERVICE. EXISTING METAL ALT ID/PIN: 22016 STORAGE STRUCTURE 6. UTILITIES TO BE CONFIRMED DURING SITE VISIT. 7. SITE PLAN AND PROPERTY LINES DEVELOPED BY JONATHAN MURPHY PROFESSIONAL LAND SURVEYING DATED 1/16/2020. 8. SITE LOCATION IS LOCATED IN ZONE X ACCORDING TO FLOOD INSURANCE RATE MAP COMMUNITY PANEL NUMBER 51179C0154F DATED 2/18/2015. EXISTING RAILROAD CROSSING SIGNAL (TYP.) PARCEL INFORMATION: OWNER: CSX TRANSPORTATION INC. ZONING: STAFFORD COUNTY BRENT POINT RD. PROPOSED POTOMAC NATIONAL LAND USE: A1 TRAIL ASSUMED TO BE WITHIN RIGHT-OF-WAY ACCOUNT #: -LATITUDE: 38° 26' 17.29" ROW -LONGITUDE: 77° 20' 16.91" - ROW - ROW - ROW - Row - Φ EXISTING RAILROAD TRACK PROPOSED 30'-0" WIDE NOTE: RAILROAD CORRIDOR IS ELIGIBLE FOR PLACEMENT ON THE NATIONAL REGISTER UTILITY/ACCESS CORRIDOR OF HISTORIC PLACES. PROPOSED 50'-0"x50'-0" FENCED COMPOUND /LEASE AREA. SEE DETAILS SHEET C-2. WIDEWATER STATE PARK PROPOSED 195'-0" MONOPOLE TOWER. SEE ELEVATION SHEET C-2. COMMONWEALTH OF VIRGINIA PROPERTY ID: 31_98 EXISTING FIBER MARKER ALT ID/PIN: L22017 (TYP.) APPROXIMATE -MCI (VERIZON) APPROXIMATE FIBER LINÉ LOCATION OF CSX TRANSPORTATION INC EXISTING GAS LINE LEGEND: PROPERTY ID: 23_6 ALT ID/PIN: 40195 OVERHEAD POWER - X - PROPOSED CHAIN-LINK FENCE — x — EXISTING FENCE — — EXISTING EASEMENT — — PROPOSED CORRIDOR OVERALL SITE PLAN - RIGHT-OF-WAY 11"x17" SCALE: 1" = 30' 24"x36" SCALE: 1" = 15' --- PROPOSED LEASE AREA — EXISTING ROAD / TURNAROUND 30' 20' 10' 0 60' PROPERTY LINE TREE TO BE REMOVED 1"=30"



1900 CENTURY PLACE, SUITE 320 ATLANTA, GA 30345

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INFRASTRUCTURE
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ENGINEERING INNOVATION

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PRELIMINARY

_	DRAWN BY:	KWJ
_	CHECKED BY:	JRB

	SUBMITTALS				
DATE	DESCRIPTION	REV	ISSUED BY		
4/10/20	ZONING DRAWINGS	Α	JRB		

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BRENT MARSH

SITE LOCATION:

BRENT POINT ROAD ARKENDALE, VA 22554

SITE NUMBER:

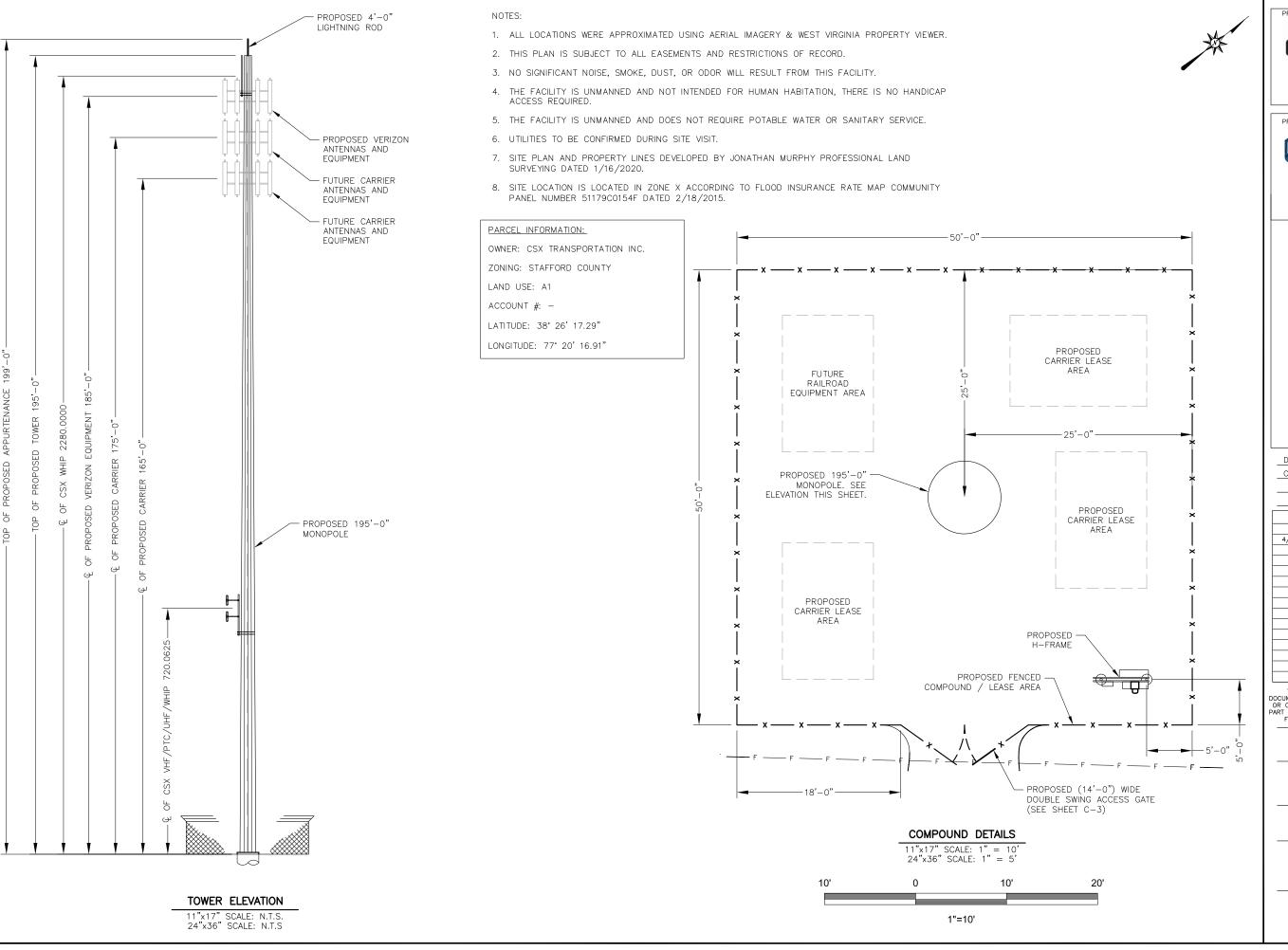
VAC003

SHEET TITLE

OVERALL SITE PLAN

SHEET NUMBER

C-1





1900 CENTURY PLACE, SUITE 320 ATLANTA, GA 30345

PREPARED BY:

INFRASTRUCTURE

SERVICES

ENGINEERING INNOVATION

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SITE NUMBER:

VAC003

SHEET TITLE

COMPOUND PLAN

SHEET NUMBER

C-2

CALLOUTS:

- 3" O.D. GALVANIZED STEEL SCHEDULE 40 CORNER POSTS (PER ASTM-F1083).
- (2) 2-1/2" NOMINAL GALVANIZED STEEL, SCHEDULE 40 INTERMEDIARY LINE POSTS (PER ASTM-F1083). LINE POSTS SHALL BE EQUALLY SPACED AT MAXIMUM 10' O.C.
- 3 1-5/8" O.D. ROUND TOP RAIL & BRACE PIPE RAIL (PER ASTM-F1083).
- 4 9 GAUGE FABRIC CORE WIRE WITH 2" MESH (TO CONFORM TO ASTM-A392).
- (5) 9 GAUGE ALUMINUM TIE WIRE. PROVIDE HOG RING FABRIC TIES SPACED 12" O.C. FOR POSTS AND GATES AND 24" O.C. FOR RAILS AND WIRE.
- (6) 9 GAUGE ALUMINUM TENSION WIRE.
- 3 STRANDS 14 GAUGE BARBED WIRE WITH 4 POINT BARBS.
 SPACE BARBS APPROXIMATELY 5" O.C.
- $8\ 3/16"x3/4"$ STRETCHER BAR; TO EXTEND FULL HEIGHT OF FENCE.
- 9 3/8" DIAGONAL ROD WITH GALVANIZED STEEL TURNBUCKLE OR DIAGONAL THREADED ROD.
- (10) 1-5/8" DIAMETER CORNER POST BRACE.
- (11) MAINTAIN A 1" MAXIMUM CLEARANCE FROM FINISHED GRADE.
- PROVIDE CROWNED/PITCHED FINISH FOR FENCE POST PIER FOUNDATIONS; TO EXTEND 1" ABOVE GRADE.
- (13) 6" CRUSHED STONE (TYP.).
- (14) FINISHED GRADE SHALL BE UNIFORM AND LEVEL.
- 4" O.D. GALVANIZED STEEL SCHEDULE 40 GATE POSTS (PER ASTM-F1083).
- $_{f (6)}$ 1-1/2" NOMINAL PIPE FOR GATE FRAME BRACE RAIL (PER ASTM F-1083).
- DUCK BILL OPEN GATE HOLDER. CONTRACTOR TO VERIFY EXACT LOCATION PRIOR TO INSTALLATION.
- (18) MULTI-TENTANT LOCKING DEVICE.
- (19) PROPOSED GEOTEXTILE FABRIC.
- CONCRETE PIER FOUNDATION; TO ACHIEVE A MINIMUM STRENGTH OF 3000 PSI AT 28 DAYS. CONCRETE DEPTH TO BE A MINIMUM OF 6" BELOW FROST LINE (48" MINIMUM, TYP.).

12"x24" NO TRESPASSING SIGN.

8-0" (TYP.) 10'-0" MAXIMUM SPACING (TYP.) 10'-0" MAXIMUM SPAC

FENCING DETAIL

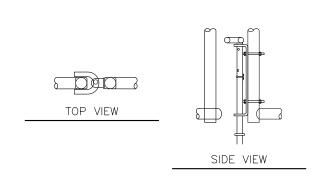
11"x17" SCALE: N.T.S. 24"x36" SCALE: N.T.S.

NOTES:

CALLOUTS:

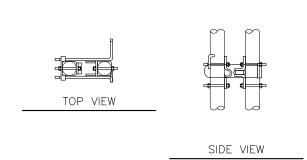
- ALL FENCING TO BE INSTALLED PER ASTM F-567. ALL SWING GATES TO BE INSTALLED PER ASTM F-900.
- 2. BARBED WIRE PERMIT REQUIRED SHALL BE COMPLETED IF LOCAL ORDINANCE REQUIRES.
- 3. POST & GATE PIPE SIZES ARE INDUSTRY STANDARDS. ALL PIPE TO BE GALVANIZED (HOT DIP, ASTM A120 GRADE "A" STEEL). ALL GATE FRAMES SHALL BE WELDED. ALL WELDINGS SHALL BE COATED WITH (3) COATS OF GOLD GALV. (OR EQUAL). ALL OPEN POSTS SHALL HAVE END—CAPS.
- 4. ALL SIGNS MUST BE MOUNTED ON INSIDE OF FENCE FABRIC USING GALVANIZED HOG—RING WIRE.
- 5. MUSHROOM ANCHOR AND PLUNGER REQUIRED FOR GATE. GENERAL CONTRACTOR RESPONSIBLE FOR GATE LOCK.

9-1/2"-



DROP ROD ASSEMBLY DETAIL

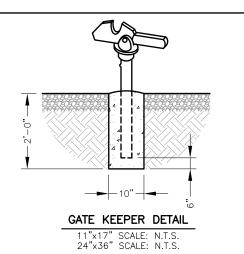
11"x17" SCALE: N.T.S. 24"x36" SCALE: N.T.S.



-14'-0" WIDE DOUBLE SWING ACCESS GATE-

LATCH ASSEMBLY DETAIL

11"x17" SCALE: N.T.S. 24"x36" SCALE: N.T.S.



METAL MUSHROOM STOP INSTALL WITH SLOP PARALLEL WITH CLOSED GATES CONCRETE

MUSHROOM STOP DETAIL

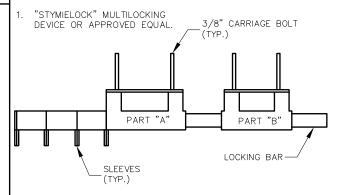
1'-2"

11"x17" SCALE: N.T.S. 24"x36" SCALE: N.T.S.

MULTILOCK INSTALLATION:

- 1. DRILL 3/8" HOLES IN THE GATE LEAF USING THE GATE DIMENSIONS PROVIDED.
- 2. SLIDE THE CARRIAGE BOLTS IN THE SLOTS ON THE BACK OF PART "B" AND PUSH THE BOLTS THROUGH THE HOLES DRILLED IN THE GATE FIGURE. PUT THE NUT AND THE LOCKNUT ON AND TIGHTEN AND CUT THE EXCESS BOLT OFF. DO THE SAME WITH PART "A"
- 3. ADD THE NUMBER OF SLEEVES NEEDED FOR THE NUMBER OF LOCKS AND SLIDE THE LOCKING BAR INTO PLACE THROUGH BOTH PART "A" AND PART "B". NOW INSTALL THE LOCKS.
- 4. IF THE GATE HAS NO CENTER BAR IN THE GATE LEAF YOU MAY NEED TO MOUNT THE STYMIELOCK VERTICALLY USING THE SAME DIMENSIONS GIVEN ON THE GATE FACE.
- 5. VERTICAL APPLICATION MAY ALSO BE USED ON SLIDING GATES WITH MULTIPLE LOCKS.

GATE LOCK ASSEMBLY:



GATE LOCK ASSEMBLY DETAIL

11"x17" SCALE: N.T.S. 24"x36" SCALE: N.T.S.







DRAWN BY:	KWJ
CHECKED BY:	JRB

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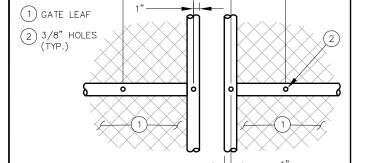
....

SHEET TITLE

FENCE DETAILS

SHEET NUMBER

C-3



7-3/4"

GATE FACE - ACCOMODATING MULTI-TENTANT LOCK

11"x17" SCALE: N.T.S. 24"x36" SCALE: N.T.S.