

BRIAR CHAPEL

PHASE 14

CONSTRUCTION DRAWINGS

CATULLO RUN

CHATHAM COUNTY, NORTH CAROLINA

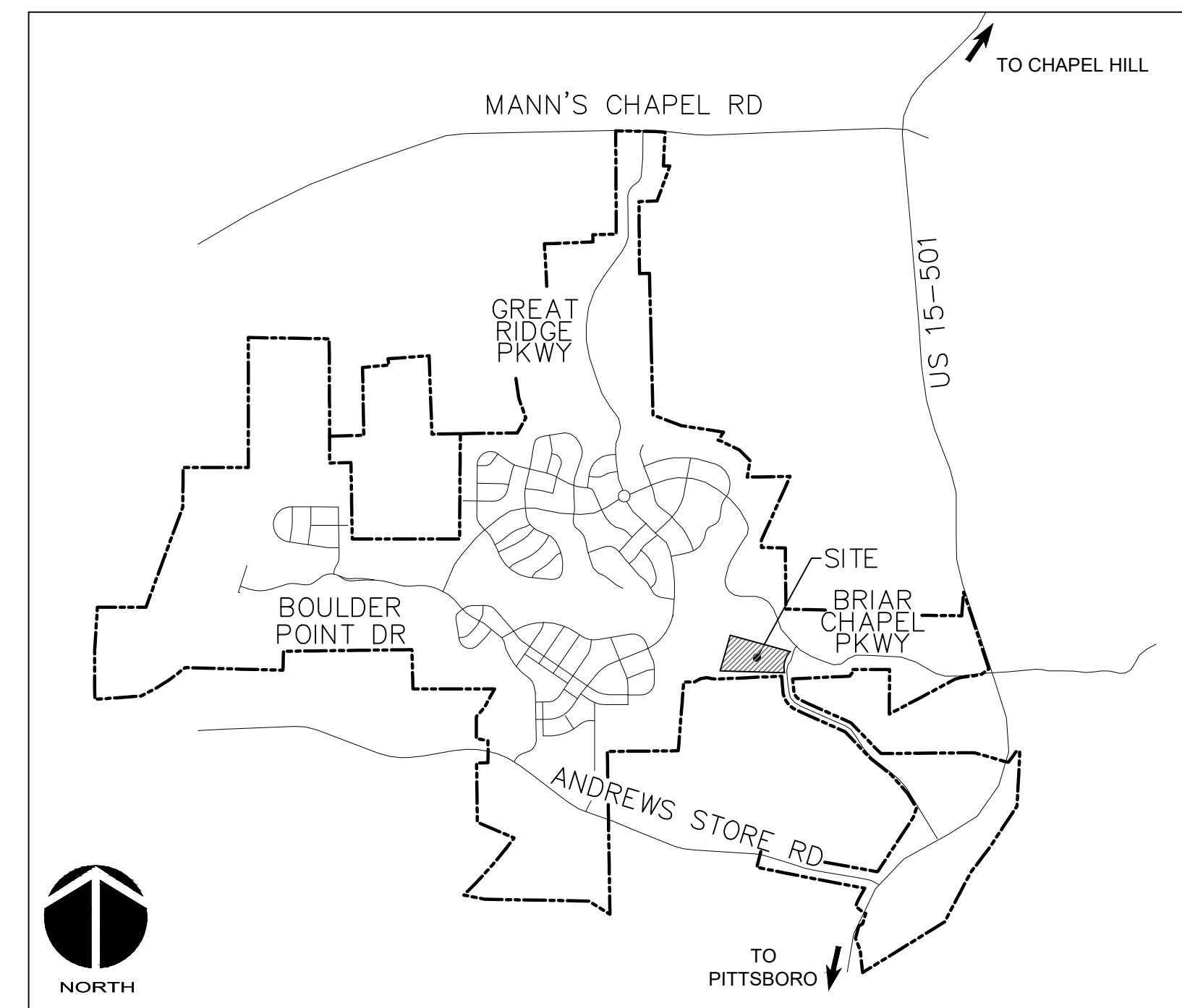
DATE: AUGUST 9, 2019

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D4.5	BMP #46 PLAN & DETAILS	2019.07.25
D4.6	BMP #42 PLAN & DETAILS	2019.07.25

COUNTY AND AGENCY CONTACTS

- | | |
|---|--|
| <p>A. Chatham County
Planning Department
Dunlap Building
80 East Street
Pittsboro, NC 27312
(919) 542-8204 phone
Contact: Jason Sullivan
Email: jason.sullivan@chathamnc.org</p> <p>B. Chatham County
Environmental Services
Dunlap Building
80 East Street
Pittsboro, NC 27312
(919) 542-8268 phone
Contact: Morgan DeWit, PE
Email: morgan.dewit@chathamnc.org</p> <p>C. Chatham County
Soil Erosion and Sedimentation Control
Dunlap Building
80 East Street
Pittsboro, NC 27312
(919) 542-8268 phone
Contact: Morgan DeWit, PE
Email: morgan.dewit@chathamnc.org</p> <p>D. Chatham County
Public Works
964 East Street, 2nd Floor, Suite 205
Pittsboro, NC 27312
(919) 542-8270 phone
Contact: Larry Bridges
Email: larry.bridges@chathamnc.org</p> | <p>E. NCDOT
Division 8, District 1
300 DOT Drive
P.O. Box 1164
Asheboro, NC 27204
(336) 318-4000 phone
Contact: Matthew Kitchen, PE
Email: mwkitchen@ncdot.gov</p> <p>F. NCDENR
Division of Environmental Health
Public Water Supply Section
1634 Mail Service Center
Raleigh, NC 27699-1634
(919) 707-9064 phone
Contact: Shashi Bhatta
Email: shashi.bhatta@ncdenr.gov</p> <p>H. NCDENR
Division of Water Quality
Surface Water Protection
3800 Barrett Drive
Raleigh, NC 27609
(919) 791-4200 phone
Contact: Danny Smith
Email: danny.smith@ncdenr.gov</p> <p>G. NCDEQ
Division of Water Quality
512 N. Salisbury St
Archdale Building, 9th Floor
Raleigh, NC 27604
(919) 807-6373 phone
Contact: Karen Higgins
Email: karen.higgins@ncdenr.gov</p> |
|---|--|



VICINITY MAP

NTS

PROJECT DATA

NAME OF PROJECT:
BRIAR CHAPEL PHASE 14
CHATHAM COUNTY, NORTH CAROLINA

OWNER:
NNP BRIAR CHAPEL, LLC
4020 WESTCHASE BLVD, SUITE 150
RALEIGH, NC 27607
PHONE: (919) 951-0702
FAX: (919) 240-4963
CONTACT: GARRETSON BROWNE
EMAIL: gbrowne@newlandco.com

PREPARED BY:
McKIM & CREED
1730 VARSITY DRIVE, SUITE 500
RALEIGH, NORTH CAROLINA 27606
PHONE: (919) 233-8091
FAX: (919) 233-8031
CONTACT: GARETH AVANT, PE
EMAIL: gavant@mckimcreed.com

PROJECT AREA: 31.82 AC

These improvements shall be constructed in accordance with the following plans, and the Standard Specifications of NCDOT and Chatham County.

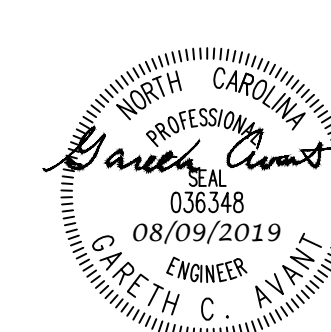


by
Newland COMMUNITIES



1730 Varsity Drive, Suite 500
Raleigh, North Carolina 27606
Phone: (919)233-8091, Fax: (919)233-8031
F-1222

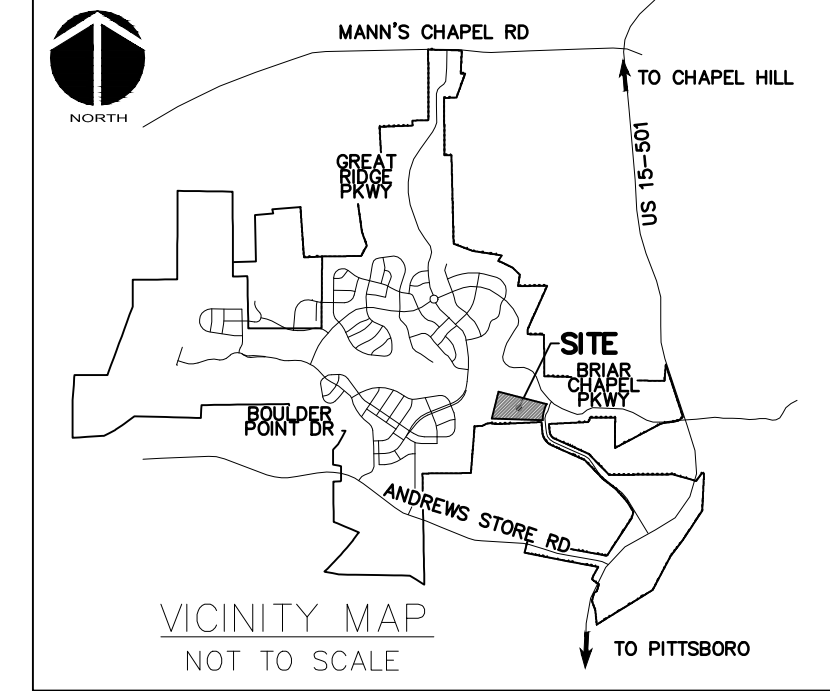
www.mckimcreed.com



FINAL DRAWINGS
FOR CONSTRUCTION

***** NOTICE TO CONTRACTOR *****

THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY, IN WRITING, OF ANY DISCREPANCIES OR OMISSIONS TO THE TOPOGRAPHIC INFORMATION. THE CONTRACTOR(S) SHALL BE RESPONSIBLE FOR CONFIRMING THE LOCATION (HORIZONTAL AND VERTICAL) OF ANY BURIED CABLES, CONDUITS, PIPES, AND STRUCTURES (STORM SEWER, SANITARY SEWER, WATER, GAS, TELEVISION, TELEPHONE, ETC.) WHICH IMPACT THE CONSTRUCTION SITE. THE CONTRACTOR(S) SHALL NOTIFY THE ENGINEER IF ANY DISCREPANCIES ARE FOUND BETWEEN THE ACTUAL CONDITIONS VERSUS THE DATA CONTAINED IN THE CONSTRUCTION PLANS. ANY COSTS INCURRED AS THE RESULT OF NOT CONFIRMING THE CONDUITS, PIPES, AND STRUCTURES SHALL BE BORNE BY THE CONTRACTOR.

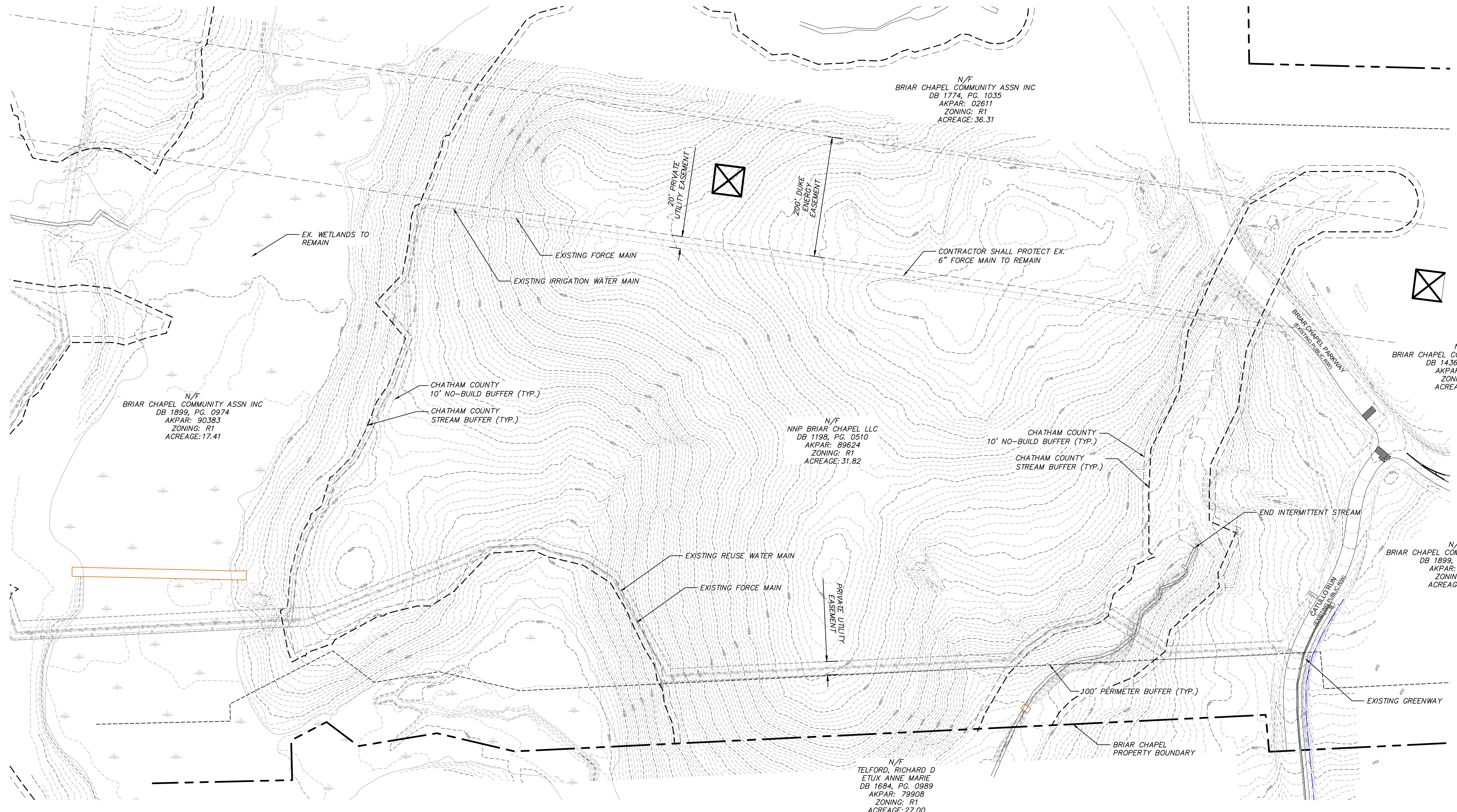


GENERAL NOTES:

1. THIS PROPERTY IS ZONED CUD-CC.
2. ALL DISTANCES SHOWN ARE HORIZONTAL GROUND MEASUREMENTS.
3. BEARINGS SHOWN HEREON ARE BASED ON NC GRID NAD83. THIS PROJECT IS LOCALIZED ABOUT NCGS MONUMENT "MAGNUM" HAVING NO GRID COORDINATES N: 768,395.12', E: 1,963,424.93' USING A COMBINED FACTOR OF 0.99990676.
4. EXISTING TOPOGRAPHIC DATA IS BASED ON AERIAL MAPPING PERFORMED BY AVOIDANCE MAPPING SERVICES IN FEBRUARY 2010. ELEVATIONS ARE BASED ON NAVD 88 NCGS MONUMENT "F-92" WITH AN ELEVATION OF 476.06'.
5. HORIZONTAL AND VERTICAL CONTROL FOR THIS SITE WAS INSTALLED BY GPA PROFESSIONAL LAND SURVEYORS OF NC.
6. PROJECT IS LOCATED IN THE CAPE FEAR RIVER BASIN.
7. STREAM AND WETLAND LOCATIONS ARE BASED ON INFORMATION PROVIDED BY WETLANDS AND WATERS, INC. - CONTACT CHRIS HUYSMAN AR 336-306-0906.
8. NO PORTION OF THIS PROPERTY IS LOCATED IN SPECIAL FLOOD HAZARD AREA "AE" AS SHOWN ON FEMA FIRM MAPS #3710976500K DATED NOVEMBER 17, 2017 AND #3710976600K DATED NOVEMBER 17, 2017.

DEMOLITION NOTES:

1. NO EARTH-DISTURBING ACTIVITIES SHALL COMMENCE UNTIL ALL PERIMETER EROSION CONTROL MEASURES ARE IN PLACE IN ACCORDANCE WITH THE EROSION CONTROL SEQUENCE SHOWN IN THESE PLANS.
2. NO EARTH-DISTURBING ACTIVITY OR OTHER WORK SHALL TAKE PLACE WITHIN WETLAND AREAS NOTED ON PLANS. CONTRACTOR SHALL FIELD VERIFY WETLAND LIMITS. FLAGGING IS IN PLACE AND SHALL NOT ENTER WETLAND AREAS. IF WETLAND FLAGGING IS MISSING OR OTHERWISE DAMAGED, IT IS CONTRACTOR'S RESPONSIBILITY TO NOTE WETLAND LIMITS AND PREVENT DISTURBANCE OR OTHER ACTIVITY WITHIN WETLANDS.
3. THE CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR THE PROTECTION OF ALL PROPERTY CORNER MONUMENTS, AND SHALL HAVE, AT HIS EXPENSE, ALL CORNER MONUMENTS REPLACED WHICH ARE DISTURBED BY CONSTRUCTION ACTIVITIES.
4. CONTRACTOR IS RESPONSIBLE FOR REPAIRS OF DAMAGE TO ANY EXISTING IMPROVEMENTS, AT HIS EXPENSE, DURING CONSTRUCTION, SUCH AS, BUT NOT LIMITED TO, DRAINAGE, UTILITIES, PAVEMENT, STRIPING, CURB, ETC. REPAIRS SHALL BE EQUAL TO OR BETTER THAN EXISTING CONDITIONS.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING THE PUBLIC DURING CONSTRUCTION, WHICH INCLUDES, BUT IS NOT LIMITED TO, CONSTRUCTION FENCING, BARRICADES, SIGNAGE, ETC.
6. CONTRACTOR SHALL COMPLY TO THE FULLEST EXTENT WITH ALL REGULATIONS GOVERNING THE DEMOLITION, REMOVAL, TRANSPORTATION AND DISPOSAL OF ALL DEMOLITION DEBRIS.
7. CONTRACTOR SHALL COMPLY TO THE FULLEST EXTENT WITH THE LATEST OSHA STANDARDS FOR EXCAVATION AND TRENCHING PROCEDURES. CONTRACTOR SHALL USE SUPPORT SYSTEMS, SLOPING, BENCHING, ETC. AS NECESSARY FOR THESE OPERATIONS, AND SHALL COMPLY WITH ALL OSHA PERFORMANCE CRITERIA.
8. CONTRACTOR SHALL TAKE SPECIAL CARE TO PROTECT ALL UTILITIES AND APPURTENANCES TO REMAIN.

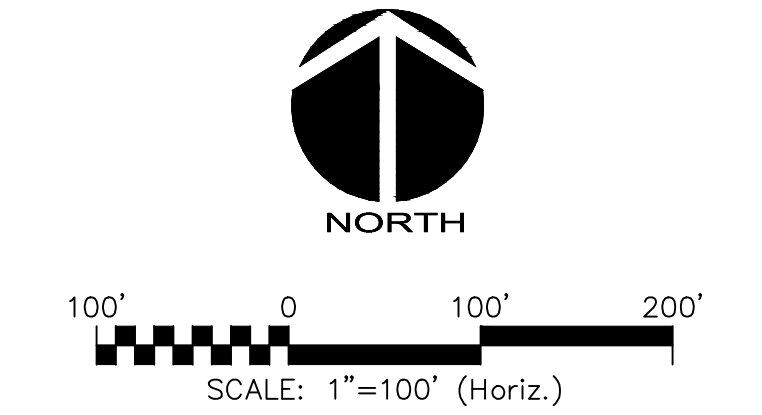


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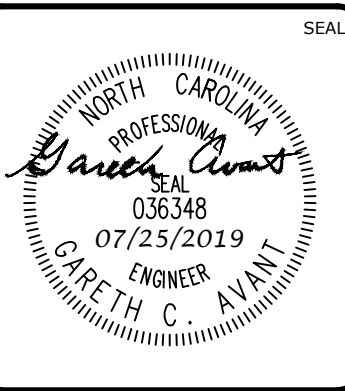
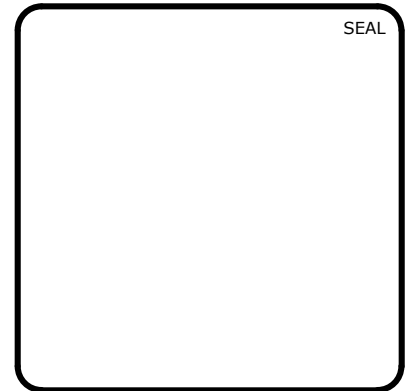
- 10' NO BUILD BUFFER LINE
- RIPARIAN BUFFER LINE
- EX. WETLANDS
- 480 --- EX. CONTOUR
- OVERALL PROPERTY BOUNDARY
- W W EX. WATER MAIN
- EX. STORM DRAINAGE PIPE

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REV. NO.	DESCRIPTIONS	DATE
3	REVISIONS PER NCDOT COMMENTS	2019.07.25
2	REVISIONS PER CHATHAM COUNTY SOIL EROSION AND SEDIMENTATION CONTROL COMMENTS	2019.06.05
1	INITIAL SUBMITTAL	2019.05.09



MCKIM & CREED

1730 Varsity Drive, Suite 500
Raleigh, North Carolina 27606
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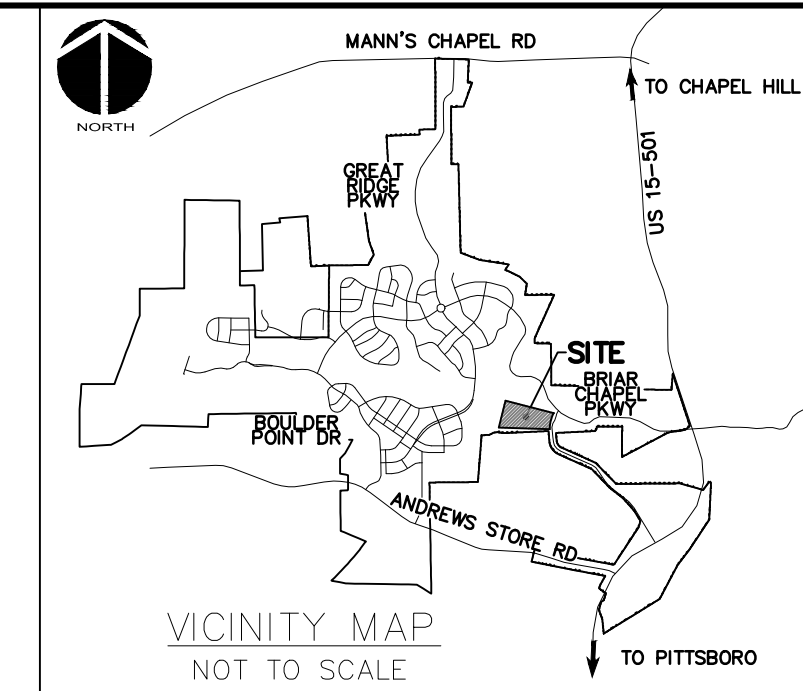
BRIAR CHAPEL™

by **Newland COMMUNITIES**

**BRIAR CHAPEL
PHASE 14
CHATHAM COUNTY, NORTH CAROLINA**

EXISTING CONDITIONS & DEMOLITION PLAN

DATE: MAY 9, 2019	SCALE: C0.2
MCE PROJ. # 02735-0239	DRAWING NUMBER: C0.2
DRAWN: DCR	HORIZONTAL: 1" = 100'
DESIGNED: DCR	VERTICAL: N/A
CHECKED: GCA	
PROJ. MGR.: CHS	
STATUS: FINAL DRAWINGS RELEASED FOR CONSTRUCTION	REVISION: 3



SITE GENERAL NOTES:

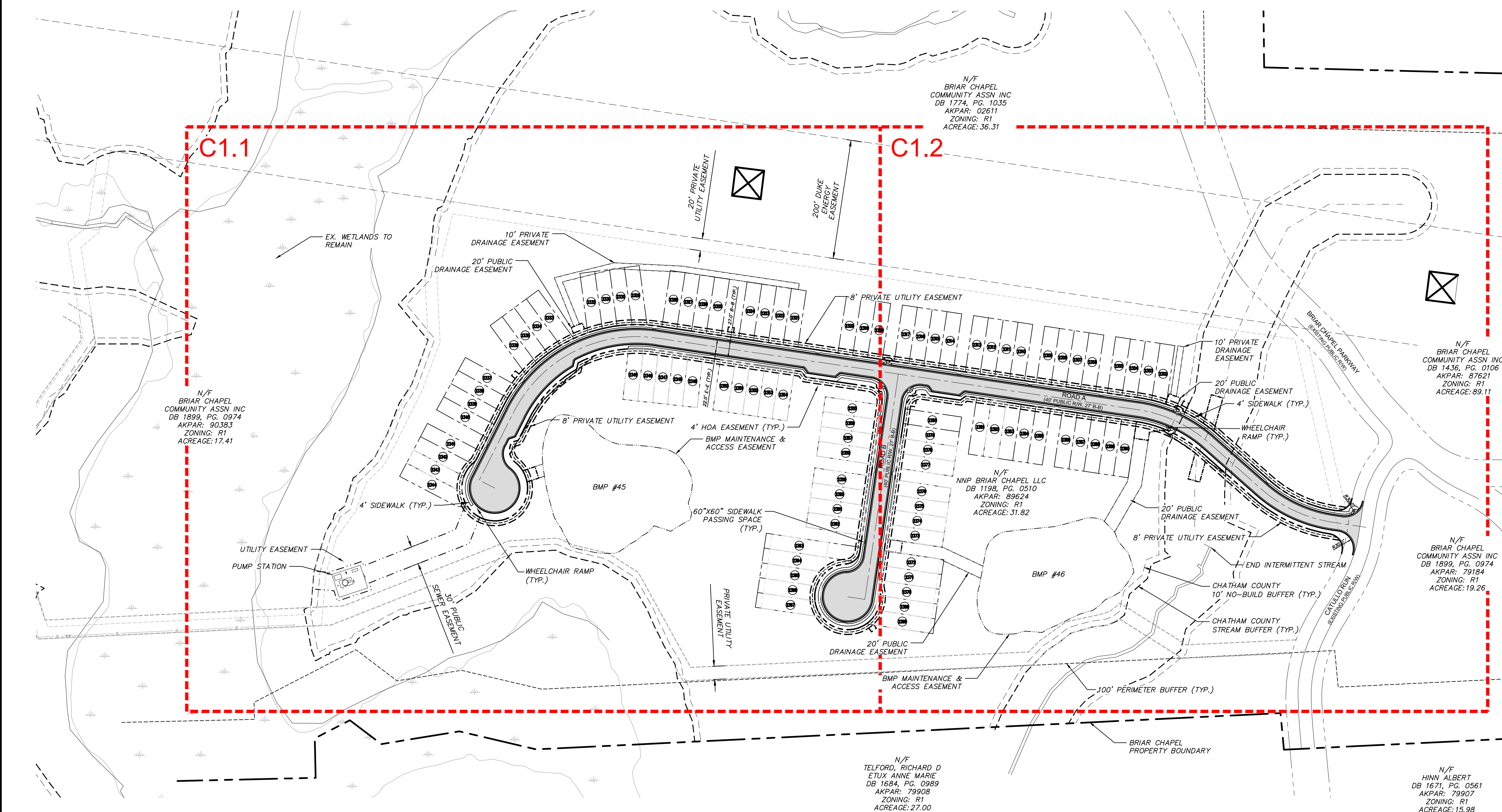
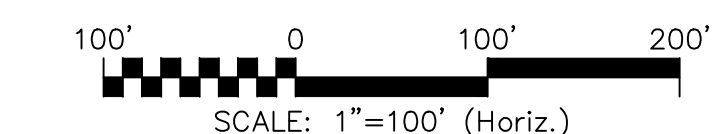
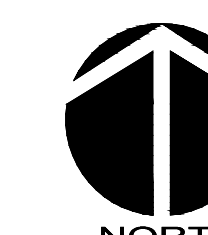
- ALL DIMENSIONS AND GRADES SHOWN ON THE PLANS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY OWNER IF ANY DISCREPANCIES EXIST PRIOR TO CONSTRUCTION. NO ADDITIONAL COMPENSATION WILL BE PAID TO THE CONTRACTOR FOR ANY WORK DONE DUE TO DIMENSIONS OR GRADES SHOWN INCORRECTLY ON THE PLANS IF SUCH NOTIFICATION HAS NOT BEEN GIVEN.
- STREAM AND WETLAND LOCATIONS ARE BASED ON INFORMATION PROVIDED BY WETLANDS AND WATERS, INC. - CONTACT CHRIS HUYSMAN AT 336-306-0906.
- A PORTION OF THIS PROPERTY IS LOCATED IN SPECIAL FLOOD HAZARD AREA "AE" AS SHOWN ON FEMA FIRM MAPS #3710976500K DATED NOVEMBER 17, 2017 AND #3710977500K DATED NOVEMBER 17, 2017.
- ALL PROPOSED ROADWAY DIMENSIONS AS SHOWN ARE MEASURED FROM BACK OF CURB TO BACK OF CURB UNLESS OTHERWISE NOTED.
- BEFORE STARTING ANY CONSTRUCTION OF IMPROVEMENTS WITHIN ANY NCDOT STREET OR HIGHWAY RIGHT-OF-WAY, CONTACT NCDOT DISTRICT OFFICE AND OBTAIN ALL PERMITS AND ENCROACHMENTS. KEEP COPIES ON CONSTRUCTION SITE. ALSO CONTACT NCDOT DISTRICT OFFICE 24 HOURS IN ADVANCE BEFORE PLACING CURB AND GUTTER AT 336-316-4000.
- REFER TO PLAN AND PROFILE SHEETS FOR DETAILED SANITARY SEWER AND STORM DRAINAGE INFORMATION WITHIN PUBLIC ROADS.

CHATHAM COUNTY REQUIRED SITE NOTES

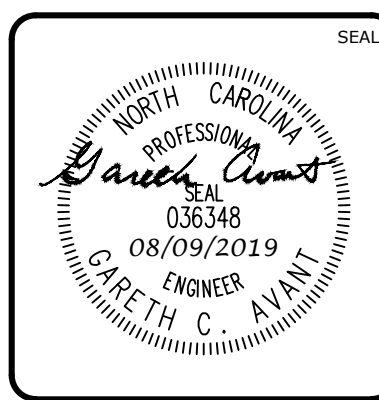
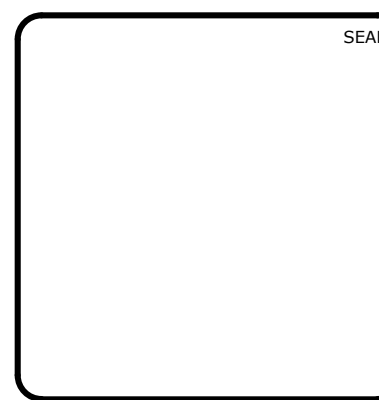
- PROPERTY OWNER/DEVELOPER:
NIP BRIAR CHAPEL, LLC
1342 BRIAR CHAPEL PARKWAY
CHAPEL HILL, NC 27516
PHONE: (919) 951-0700
- SITE AKPAR #: 89624

LEGEND:

- NEW R/W LINE
- OVERALL PROPERTY BOUNDARY
- EXISTING R/W LINE
- HOA EASEMENT LINE
- PUBLIC UTILITY EASEMENT LINE
- PRIVATE UTILITY EASEMENT LINE
- PERMANENT DRAINAGE EASEMENT
- PRIVATE DRAINAGE EASEMENT
- 10' NO BUILD BUFFER LINE
- RIPARIAN BUFFER LINE
- 100' PERIMETER BUFFER
- EX. WETLANDS
- FLOODWAY
- 100-YEAR FLOODPLAIN
- 500-YEAR FLOODPLAIN



REV. NO.	DESCRIPTIONS	DATE
6	REVISIONS PER NCDOT COMMENTS	2019.08.09
5	REVISIONS PER NCDOT COMMENTS	2019.08.06
4	LIMITS OF DISTURBANCE REVISION	2019.08.05
3	REVISIONS PER NCDOT COMMENTS	2019.07.25
2	REVISIONS PER CHATHAM COUNTY SOIL EROSION AND SEDIMENTATION CONTROL COMMENTS	2019.06.05
1	INITIAL SUBMITTAL	2019.05.09



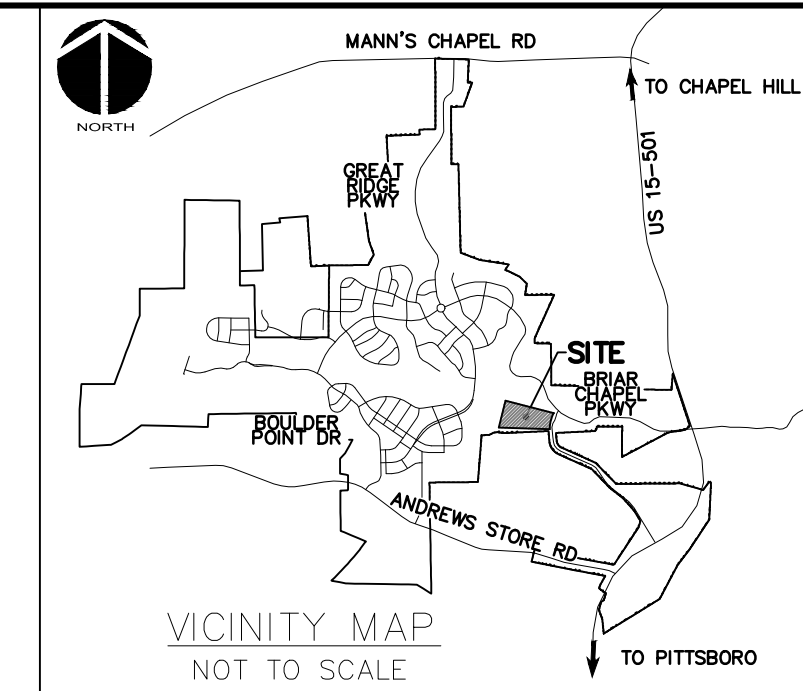
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PHASE 14
CHATHAM COUNTY, NORTH CAROLINA**

OVERALL SITE PLAN

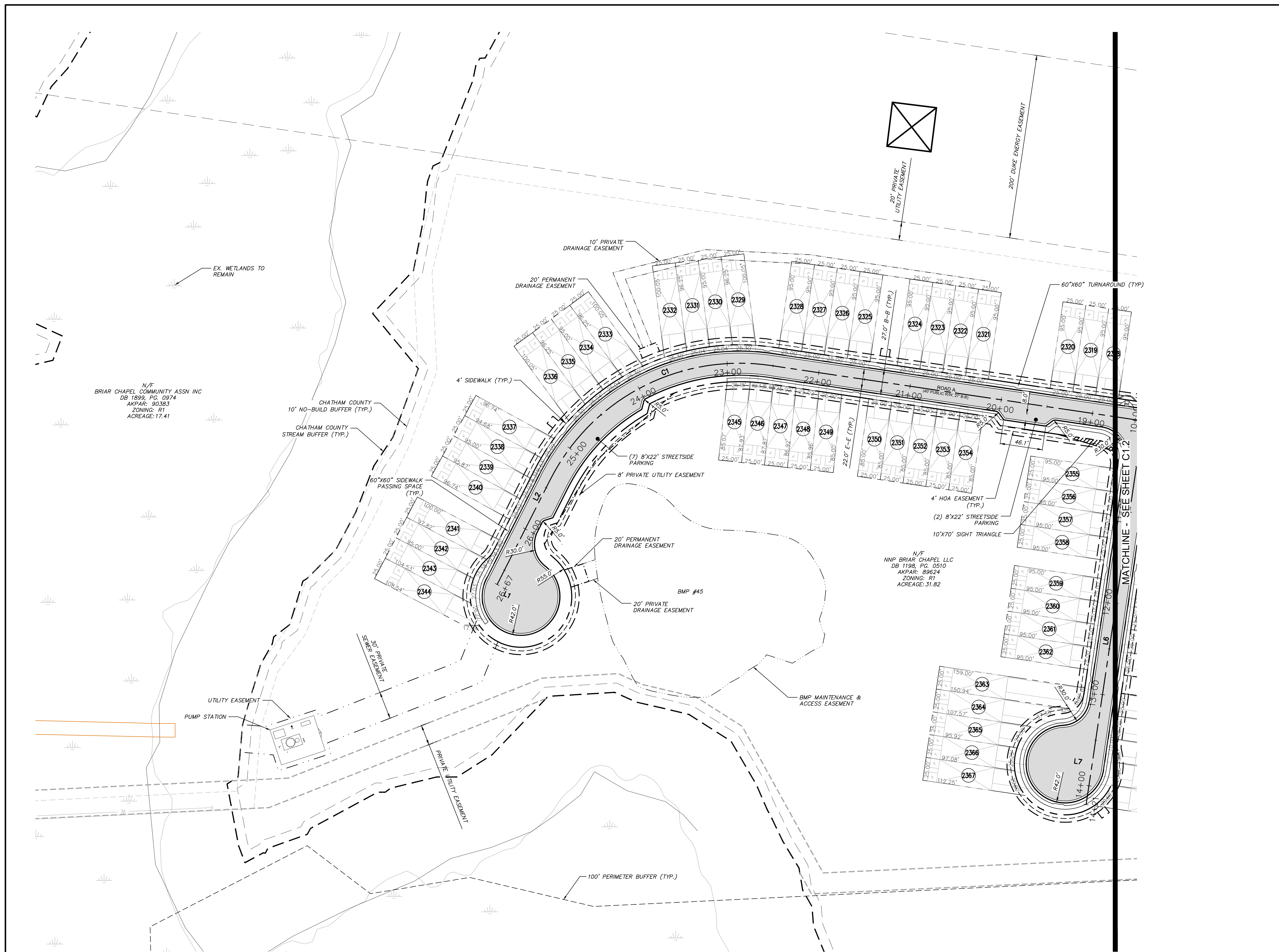
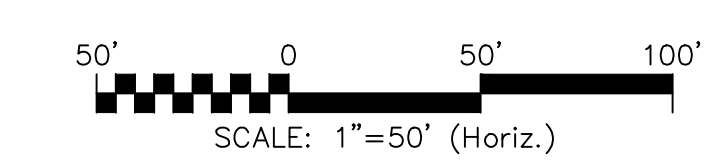
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DRAWN: DCR	VERTICAL: N/A	
DESIGNED: DCR		
CHECKED: GCA		
PROJ. MGR.: CHS		
STATUS: FINAL DRAWINGS RELEASED FOR CONSTRUCTION		REVISION: 6



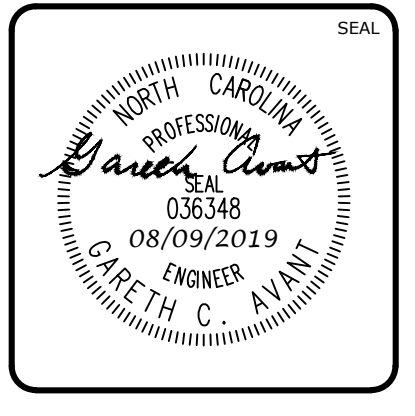
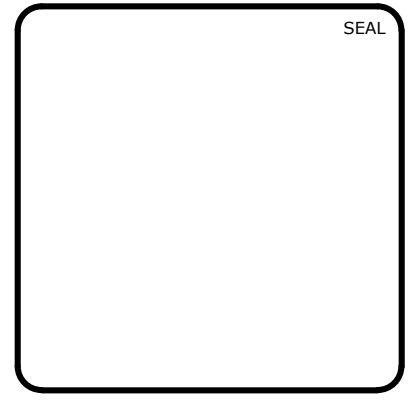
Line Table		
LINE #	LENGTH	DIRECTION
L1	29.000	N63° 08' 44.08"W
L2	127.602	N26° 51' 15.92"E
L3	812.524	S81° 31' 57.34"E
L4	117.772	S48° 34' 21.99"E
L5	57.737	S81° 21' 29.90"E
L6	380.628	N08° 28' 02.66"E
L7	20.000	S81° 21' 29.90"E

Curve Table					
CURVE #	RADIUS	ARCH LENGTH	CHORD BEARING	CHORD LENGTH	DELTA
C1	230.000	287.473	N62° 39' 39.29"E	269.123	071.6130
C2	230.000	132.309	S65° 03' 09.67"E	130.492	032.9598
C3	230.000	131.610	S64° 57' 55.95"E	129.821	032.7855

- LEGEND:**
- NEW R/W LINE
 - OVERALL PROPERTY BOUNDARY
 - 4' HOA EASEMENT
 - 4' PRIVATE UTILITY EASEMENT
 - PRIVATE UTILITY EASEMENT LINE
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 - PRIVATE DRAINAGE EASEMENT
 - 10' NO BUILD BUFFER LINE
 - RIPARIAN BUFFER LINE
 - 100' PERIMETER BUFFER
 - EX. WETLANDS
 - BMP MAINTENANCE & ACCESS EASEMENT
 - ROADWAY CENTERLINE



REV. NO.	DESCRIPTIONS	DATE
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1	INITIAL SUBMITTAL	2019.05.09



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**BRIAR CHAPEL
 PHASE 14
 CHATHAM COUNTY, NORTH CAROLINA**

SITE PLAN

DATE: MAY 9, 2019	SCALE: AS NOTED	MISC FILE NUMBER: C1.1
MCE PROJ. # 02735-0239	HORIZONTAL: AS NOTED	DRAWING NUMBER: C1.1
DRAWN: DCR	VERTICAL: N/A	REVISION: 6
DESIGNED: DCR		
CHECKED: GCA		
PROJ. MGR.: CHS		
STATUS: FINAL DRAWINGS RELEASED FOR CONSTRUCTION		

Curve Table					
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L5	57.737	S81° 21' 29.90"E
L6	380.628	N08° 28' 02.66"E
L7	29.000	S61° 31' 57.34"E

LOT AREA TABLE		
LOT #	AREA (SF)	AREA (AC)
2302	2432.12	0.06
2303	2380.69	0.05
2304	2375.00	0.05
2305	2375.00	0.05
2306	2375.00	0.05
2307	2375.00	0.05
2308	2375.00	0.05
2309	2375.00	0.05
2310	2375.00	0.05
2311	2375.00	0.05
2312	2375.00	0.05
2313	2375.00	0.05
2314	2375.00	0.05
2315	2375.00	0.05
2316	2375.00	0.05
2317	2375.00	0.05
2318	2375.00	0.05
2319	2375.00	0.05
2320	2375.00	0.05
2321	2375.00	0.05
2322	2375.00	0.05
2323	2375.00	0.05
2324	2375.00	0.05

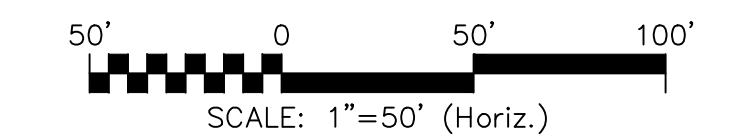
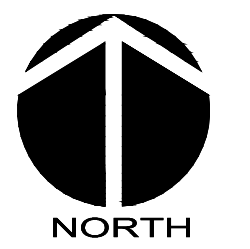
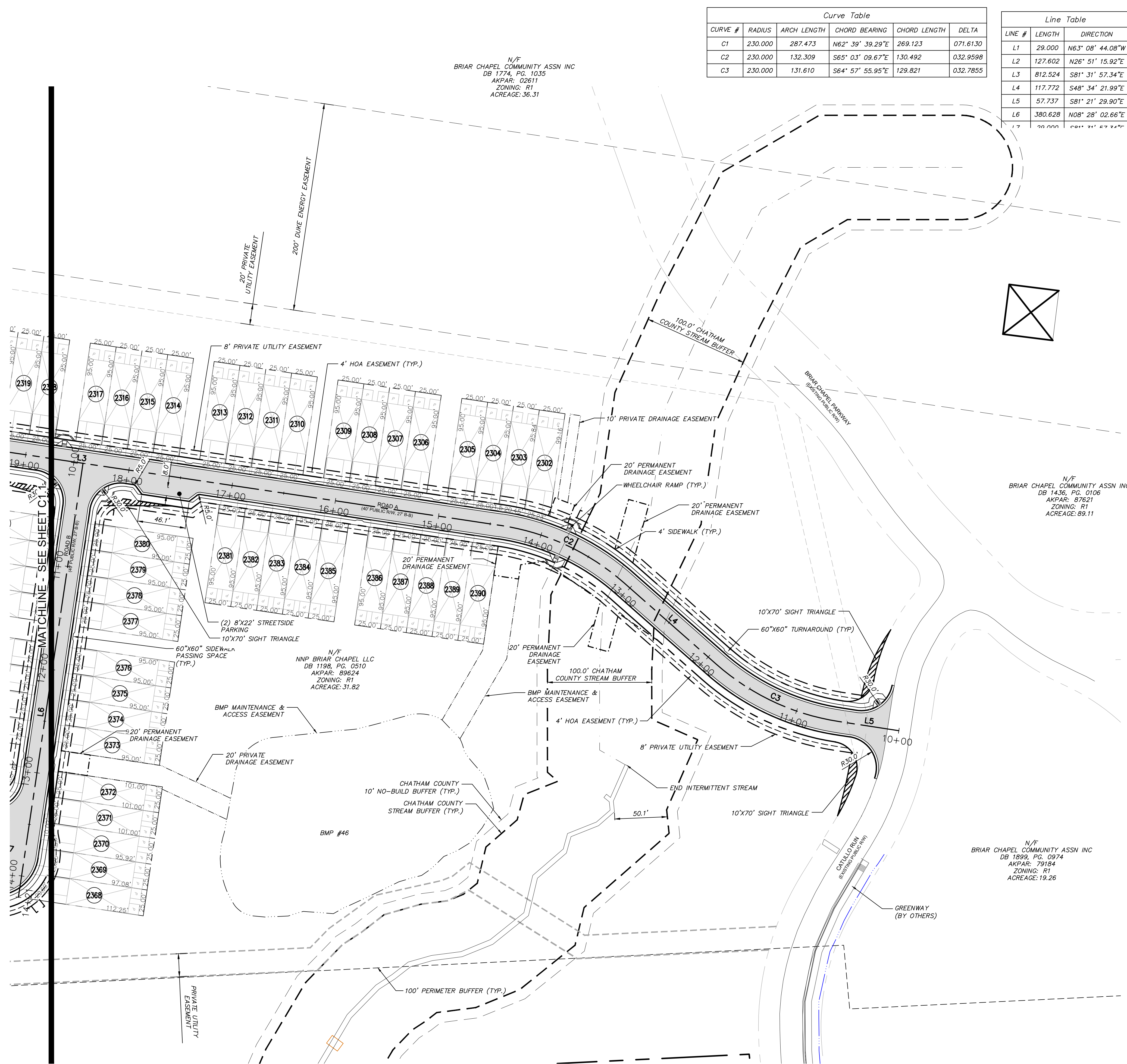
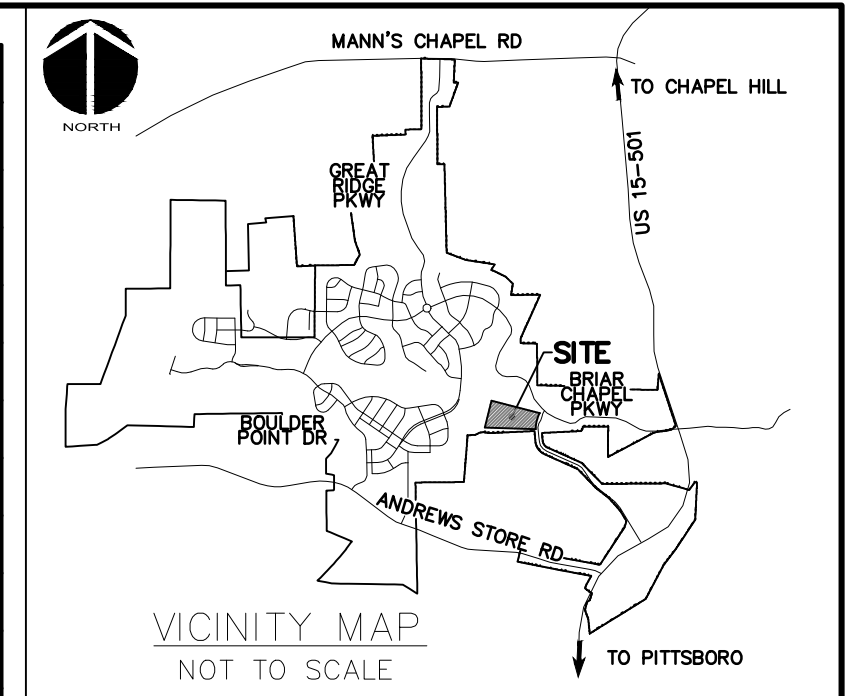
LOT AREA TABLE		
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2326	2375.00	0.05
2327	2375.00	0.05
2328	2375.00	0.05
2329	2448.41	0.06
2330	2385.43	0.05
2331	2385.43	0.05
2332	2448.41	0.06
2333	2448.41	0.06
2334	2385.43	0.05
2335	2385.43	0.05
2336	2448.41	0.06
2337	2387.51	0.05
2338	2367.20	0.05
2339	2385.86	0.05
2340	2407.59	0.06
2341	2494.72	0.06
2342	2385.71	0.05
2343	2464.58	0.06
2344	2845.49	0.07
2345	2168.83	0.05
2346	2203.01	0.05
2347	2184.87	0.05

LOT AREA TABLE		
LOT #	AREA (SF)	AREA (AC)
2348	2160.92	0.05
2349	2136.97	0.05
2350	2125.00	0.05
2351	2125.00	0.05
2352	2125.00	0.05
2353	2125.00	0.05
2354	2125.00	0.05
2355	2375.00	0.05
2356	2375.00	0.05
2357	2375.00	0.05
2358	2375.00	0.05
2359	2375.00	0.05
2360	2375.00	0.05
2361	2375.00	0.05
2362	2375.00	0.05
2363	3929.32	0.09
2364	3145.58	0.07
2365	2511.21	0.06
2366	2388.39	0.05
2367	2577.98	0.06
2371	2525.00	0.06
2372	2525.00	0.06
2373	2375.00	0.05

LOT AREA TABLE		
LOT #	AREA (SF)	AREA (AC)
2374	2375.00	0.05
2375	2375.00	0.05
2376	2375.00	0.05
2377	2375.00	0.05
2378	2375.00	0.05
2379	2375.00	0.05
2380	2375.00	0.05
2381	2375.00	0.05
2382	2375.00	0.05
2383	2375.00	0.05
2384	2375.00	0.05
2385	2375.00	0.05
2386	2375.00	0.05
2387	2375.00	0.05
2388	2375.00	0.05
2389	2375.00	0.05
2390	2374.99	0.05

LEGEND:

- NEW R/W LINE
- OVERALL PROPERTY BOUNDARY
- 4' HOA EASEMENT
- 4' PRIVATE UTILITY EASEMENT
- PRIVATE UTILITY EASEMENT LINE
- PRIVATE UTILITY EASEMENT LINE
- PERMANENT DRAINAGE EASEMENT
- PRIVATE DRAINAGE EASEMENT
- 10' NO BUILD BUFFER LINE
- RIPARIAN BUFFER LINE
- 100' PERIMETER BUFFER
- EX. WETLANDS
- BMP MAINTENANCE & ACCESS EASEMENT



REV. NO.	DESCRIPTIONS	DATE
6	REVISIONS PER NCDOT COMMENTS	2019.08.09
5	REVISIONS PER NCDOT COMMENTS	2019.08.06
4	LIMITS OF DISTURBANCE REVISION	2019.08.05
3	REVISIONS PER NCDOT COMMENTS	2019.07.25
2	REVISIONS PER CHATHAM COUNTY SOIL EROSION AND SEDIMENTATION CONTROL COMMENTS	2019.06.05
1	INITIAL SUBMITTAL	2019.05.09

Professional Engineer Seal for Gretch C. A. Aant, State of North Carolina, License No. 036348, dated 08/09/2019.

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BRIAR CHAPEL™
 by **Newland COMMUNITIES**

**BRIAR CHAPEL
 PHASE 14
 CHATHAM COUNTY, NORTH CAROLINA**

SITE PLAN

DATE: MAY 9, 2019
 MCE PROJ. # 02735-0239
 DRAWN: DCR
 DESIGNED: DCR
 CHECKED: GCA
 PROJ. MGR.: CHS

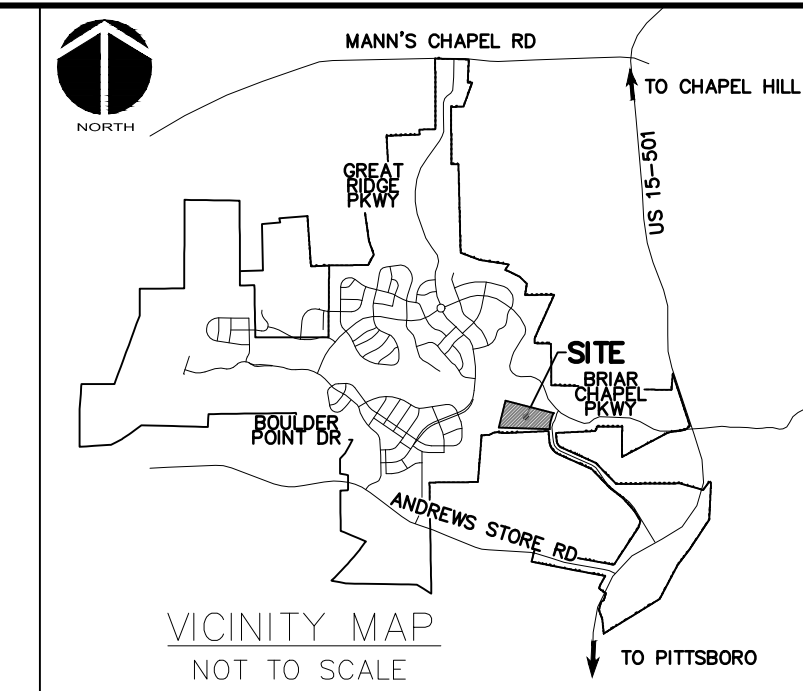
SCALE: HORIZONTAL: AS NOTED
 VERTICAL: N/A

MSC FILE NUMBER: C1.1
 DRAWING NUMBER: C1.2

STATUS: FINAL DRAWINGS RELEASED FOR CONSTRUCTION
 REVISION: 6

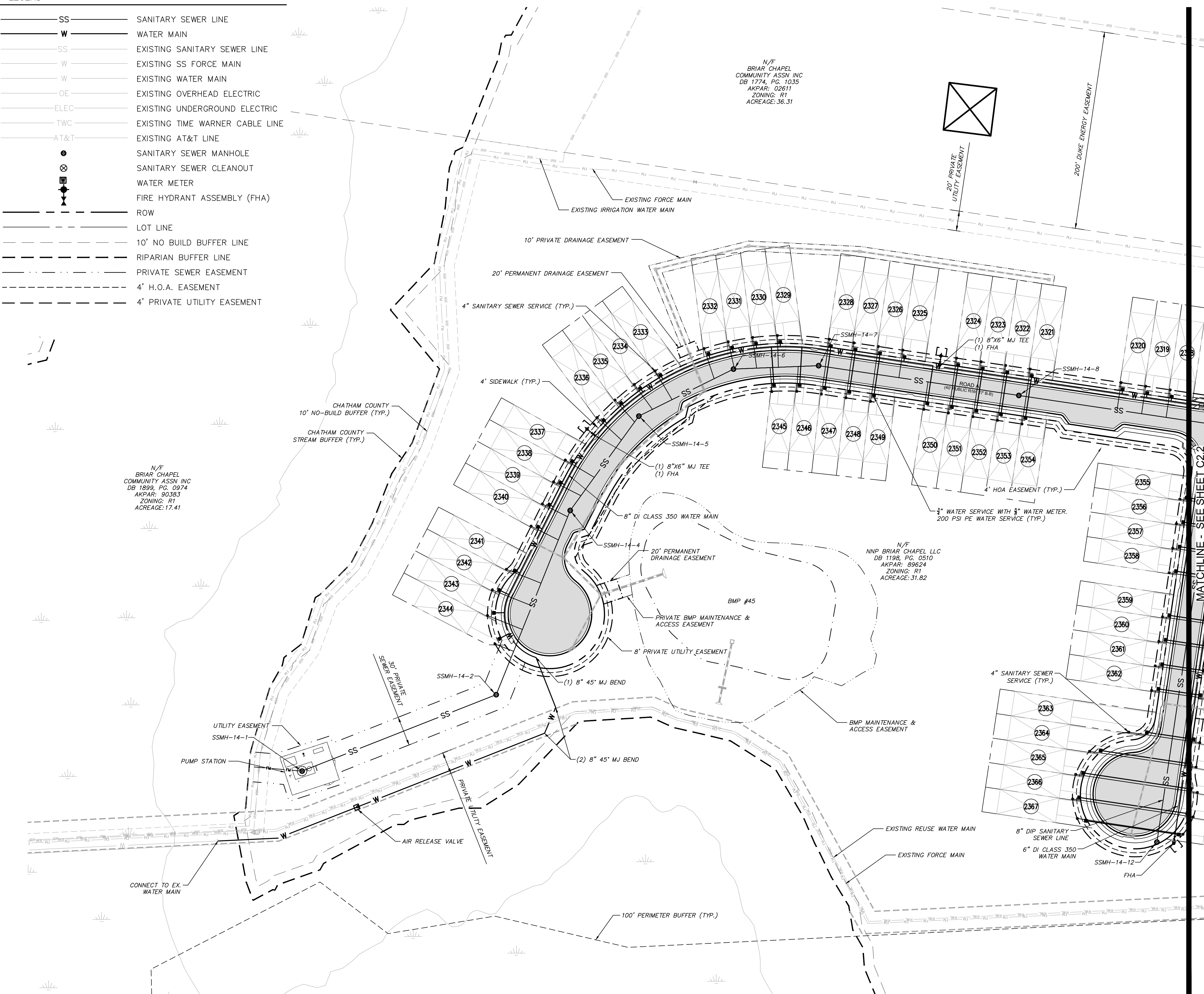
LEGEND

- SS — SANITARY SEWER LINE
- W — WATER MAIN
- SS — EXISTING SANITARY SEWER LINE
- W — EXISTING SS FORCE MAIN
- W — EXISTING WATER MAIN
- OE — EXISTING OVERHEAD ELECTRIC
- ELEC — EXISTING UNDERGROUND ELECTRIC
- TWC — EXISTING TIME WARNER CABLE LINE
- AT&T — EXISTING AT&T LINE
- — SANITARY SEWER MANHOLE
- ⊗ — SANITARY SEWER CLEANOUT
- ⊕ — WATER METER
- ⊕ — FIRE HYDRANT ASSEMBLY (FHA)
- — ROW
- — LOT LINE
- - - 10' NO BUILD BUFFER LINE
- - - RIPARIAN BUFFER LINE
- - - PRIVATE SEWER EASEMENT
- - - 4' H.O.A. EASEMENT
- - - 4' PRIVATE UTILITY EASEMENT



UTILITY NOTES:

1. ALL SANITARY SEWER CONSTRUCTION IS TO BE PERFORMED IN ACCORDANCE WITH CURRENT NCDENR & CHATHAM COUNTY STANDARDS, SPECIFICATIONS & DETAILS.
2. ALL WATER MAIN CONSTRUCTION IS TO BE PERFORMED IN ACCORDANCE WITH CURRENT CHATHAM COUNTY STANDARDS, SPECIFICATIONS & DETAILS.
3. ALL PERMITS RELATING TO THIS PROJECT MUST BE OBTAINED PRIOR TO CONSTRUCTION.
4. ALL WATER MAINS SHALL HAVE A MIN. OF 3'-6" OF COVER AS MEASURED FROM FINISHED GRADE TO TOP OF PIPE AT THE LOCATION WHERE INSTALLED.
5. WATER MAINS SHALL BE LAID AT LEAST 10 FEET LATERALLY FROM EXISTING OR PROPOSED SEWERS, UNLESS LOCAL CONDITIONS OR BARRIERS PREVENT A 10-FOOT LATERAL SEPARATION, IN WHICH CASE:
 - (1) THE WATER MAIN IS LAID IN A SEPARATE TRENCH, WITH THE ELEVATION OF THE BOTTOM OF THE WATER MAIN AT LEAST 18 INCHES ABOVE THE TOP OF THE SEWER; OR
 - (2) THE WATER MAIN IS LAID IN THE SAME TRENCH AS THE SEWER WITH THE WATER MAIN LOCATED AT ONE SIDE OR A BENCH OF UNDISTURBED EARTH, AND WITH THE ELEVATION OF THE BOTTOM OF THE WATER MAIN AT LEAST 18 INCHES ABOVE THE TOP OF THE SEWER.
6. WHERE A WATER MAIN CROSSES OVER A SANITARY SEWER, THE WATER MAIN SHALL BE LAID AT SUCH AN ELEVATION THAT THE BOTTOM OF THE WATER MAIN IS AT LEAST 18 INCHES ABOVE THE TOP OF THE SEWER, UNLESS LOCAL CONDITIONS OR BARRIERS PREVENT AN 18-INCH VERTICAL SEPARATION. IN WHICH CASE BOTH THE WATER MAIN AND SEWER SHALL BE CONSTRUCTED OF DUCTILE IRON AND WITH JOINTS THAT ARE EQUIVALENT TO WATER MAIN STANDARDS FOR A DISTANCE OF 10 FEET ON EACH SIDE OF THE POINT OF CROSSING.
7. WHERE A WATER MAIN CROSSES UNDER A SANITARY SEWER, BOTH THE WATER MAIN AND SEWER SHALL BE CONSTRUCTED OF DUCTILE IRON AND WITH JOINTS EQUIVALENT TO WATER MAIN STANDARDS FOR A DISTANCE OF 10 FEET ON EACH SIDE OF THE POINT OF CROSSING. A SECTION OF WATER MAIN PIPE SHALL BE CENTERED AT THE POINT OF CROSSING. SEE NCAC 15A, 18C, SECTION .0906.
8. CONTRACTOR SHALL USE A MIN. 20' SECTION DIP CLASS 350 CENTERED UNDER STORMWATER PIPE WHERE 18" MIN. VERTICAL CLEARANCE CANNOT BE MET BETWEEN STORMWATER AND WATER.
9. TRACER WIRE AND TRACER WIRE TEST STATIONS ARE TO BE INSTALLED ON ALL WATER MAINS. TRACER WIRE TEST STATIONS ARE TO BE LOCATED AT ALL FIRE HYDRANTS WITHIN A 3 FOOT RADIUS OF THE HYDRANT AND PREFERABLY TO THE REAR OF THE HYDRANT.
10. WATER SERVICES SHALL BE EXTENDED FROM THE MAIN TO A METER BOX LOCATED OUTSIDE THE RIGHT OF WAY. THE METER SHALL BE PLACED AT THE EDGE OF THE SERVICE LOT'S RIGHT OF WAY LINE OR EASEMENT. SERVICE LINE SHALL BE RUN ON A TRUE LINE FROM THE WATER MAIN TO THE METER BOX, AND WHERE POSSIBLE, SERVICE LINE SHALL BE PERPENDICULAR TO THE MAIN LINE. NO WATER BOXES OR VAULTS SHALL BE PLACED IN STREETS, SIDEWALKS, PARKING AREAS, OR DRIVEWAYS.
11. MANHOLES SHALL BE SPACED A MAXIMUM DISTANCE OF 400 FEET APART.
12. MANHOLES SHALL BE INSTALLED AT EACH DEFLECTION OF LINE AND/OR GRADE WITH A MINIMUM DROP OF 0.2 FEET. MANHOLES FOR SEWERS GREATER THAN 21 INCHES IN DIAMETER SHALL BE 5 FOOT MANHOLES. MANHOLES FOR SEWERS 12 FEET OR DEEPER SHALL BE MINIMUM 5 FOOT DIAMETER. MANHOLE TOPS SHALL BE SET FLUSH WITH PAVEMENT WHERE INSTALLED IN A STREET.
13. SERVICE CONNECTIONS FOR THE SANITARY SEWER LINES SHOULD BE PERPENDICULAR FROM THE MAIN LINE TO THE EDGE OF THE SERVICE LOT'S RIGHT OF WAY LINE OR EASEMENT WITH A MINIMUM GRADE OF 1/4" INCH/FOOT FOR 4 INCH AND 6 FOOT/100 FOOT FOR 6 INCH. ALL CLEANOUTS SHALL EXTEND A MINIMUM OF 6 INCHES ABOVE THE FINISHED GRADE. WHERE A SERVICE LINE IS CONNECTED TO A MANHOLE, THE LINE SHALL TERMINATE AT THE EDGE OF THE INVERT IN THE MANHOLE. NO CLEANOUTS SHALL BE PLACED IN STREETS, SIDEWALKS, PARKING AREAS, OR DRIVEWAYS.
14. ALL SANITARY SEWER LINES ARE 8" PVC SDR 35 UNLESS OTHERWISE NOTED AND ALL WATER MAIN LINES ARE 8" DI CLASS 350 UNLESS OTHERWISE NOTED. ALL SANITARY SEWER SERVICES ARE 4" SCHEDULE 40 PVC AND ALL WATER MAIN SERVICES ARE 3/4".
15. MINIMUM COVER OF 5 FEET IN TRAFFIC AREAS TO BE PROVIDED FOR ALL COLLECTOR LINES 4 INCHES AND LARGER. IF LESS THAN 5 FEET, DUCTILE IRON PIPE SHALL BE REQUIRED.
16. SANITARY SEWER WITHIN PRIVATE EASEMENTS TO BE OWNED, OPERATED AND MAINTAINED BY OLD NORTH STATE WATER COMPANY, LLC.
17. WATER MAINS WILL BE 3.5' OFF CURB AND GUTTER UNLESS SHOWN OTHERWISE.
18. ALL WATER MAINS WITHIN PRIVATE EASEMENTS AND PUBLIC RIGHT-OF-WAY TO BE OWNED, OPERATED AND MAINTAINED BY CHATHAM COUNTY. ALL WATER MAINS OUTSIDE OF PUBLIC RIGHT-OF-WAY WILL BE CONTAINED WITHIN 20' WIDE PUBLIC WATER LINE EASEMENT (MINIMUM) CENTERED ON THE PROPOSED WATER MAIN. PUBLIC WATER EASEMENTS SHALL NOT OVERLAP PUBLIC RIGHT-OF-WAY.
19. CONTRACTOR TO COORDINATE WITH CHATHAM COUNTY PUBLIC WORKS FOR ALL IRRIGATION SLEEVE SIZING.
20. ALL SERVICE CONNECTIONS SHALL BE MADE PRIOR TO PLACING THE LAST LIFT OF SURFACE ASPHALT.
21. AT POINTS WHERE UTILITY IS PLACED UNDER EXISTING STORM DRAINS, THE TRENCH SHALL BE BACKFILLED WITH CLASS B CONCRETE UP TO THE OUTSIDE DIAMETER OF THE EXISTING PIPE.
22. VALVES SHALL BE LOCATED OUTSIDE THE PAVEMENT, CURB AND GUTTER, AND AS CLOSE TO THE RIGHT OF WAY LINE AS POSSIBLE.



CALL N.C. ONE CALL CENTER BEFORE YOU DIG
STOP
 1-800-632-4949
 AVOID UTILITY DAMAGE

NORTH

50' 0 50' 100'
 SCALE: 1"=50' (Horiz.)

REV. NO.	DESCRIPTIONS	DATE
6	REVISIONS PER NCDOT COMMENTS	2019.08.09
5	REVISIONS PER NCDOT COMMENTS	2019.08.06
4	LIMITS OF DISTURBANCE REVISION	2019.08.05
3	REVISIONS PER NCDOT COMMENTS	2019.07.25
2	REVISIONS PER CHATHAM COUNTY SOIL EROSION AND SEDIMENTATION CONTROL COMMENTS	2019.06.05
1	INITIAL SUBMITTAL	2019.05.09

SEAL

PROFESSIONAL ENGINEER
 GARETH C. AVANT
 08/09/2019
 036348

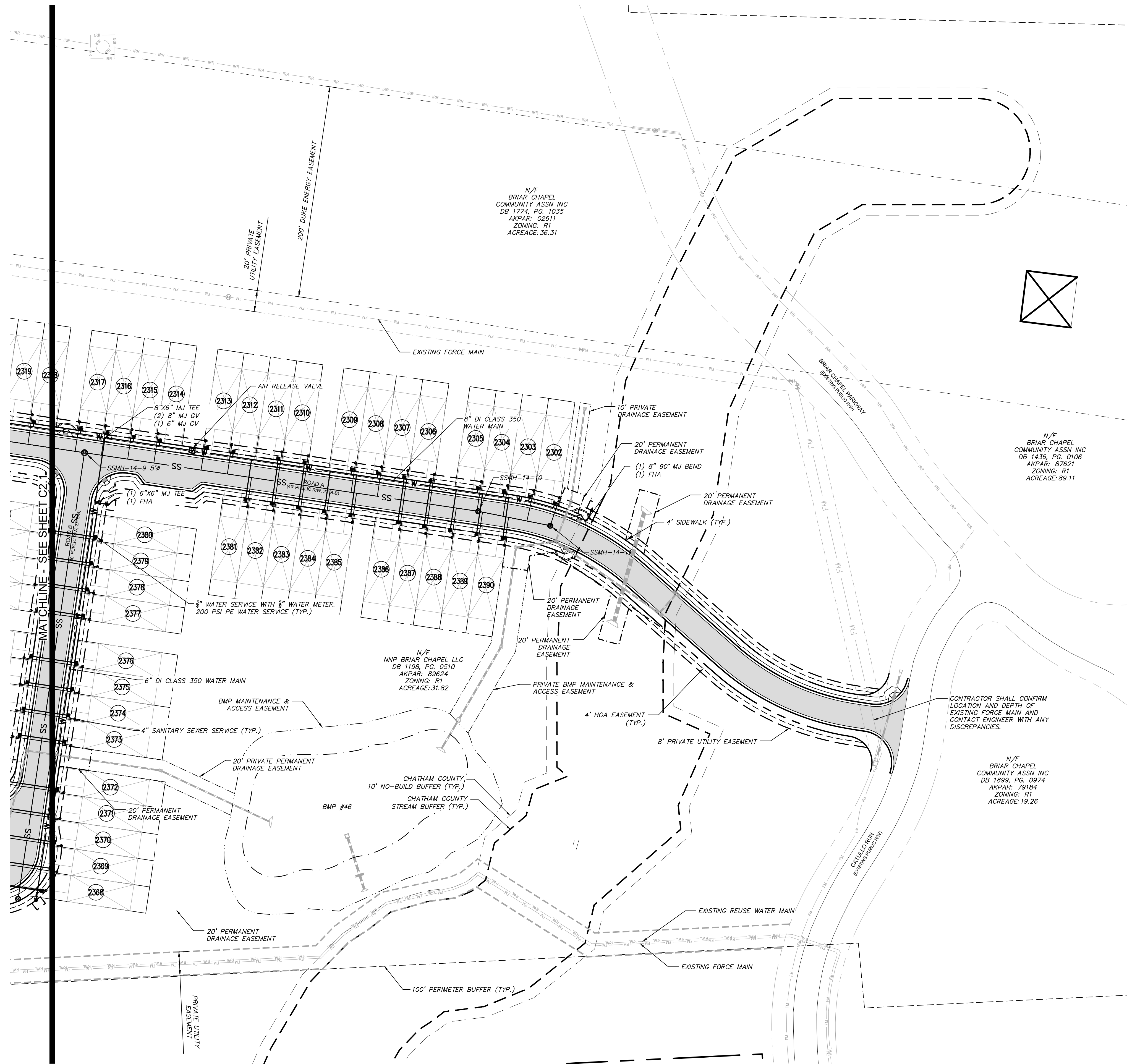
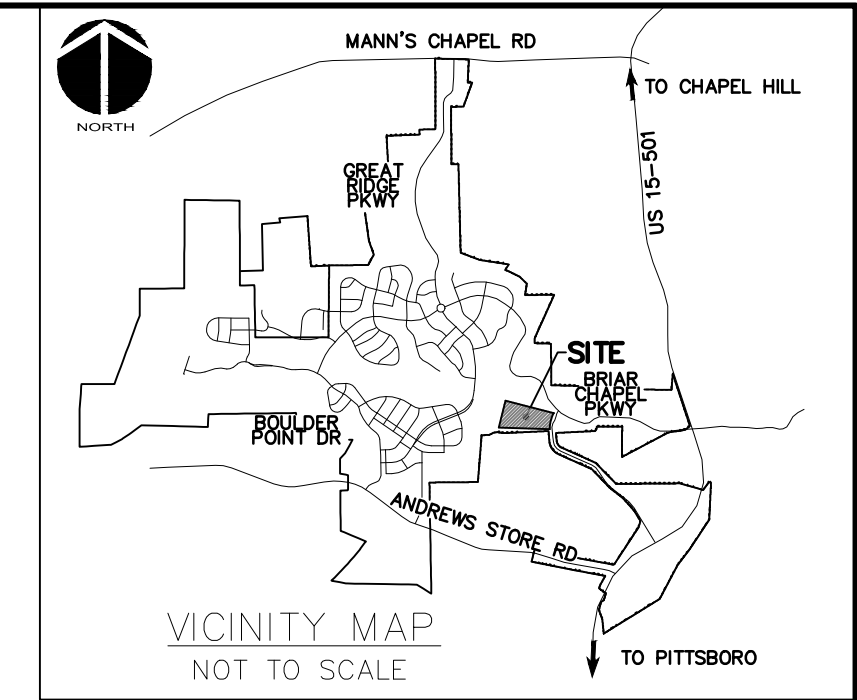
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 CHATHAM COUNTY, NORTH CAROLINA**

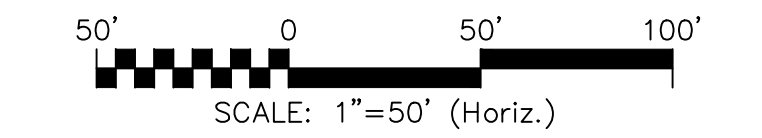
UTILITY PLAN

DATE: MAY 9, 2019	SCALE: C2.1
MCE PROJ. # 02735-0239	HORIZONTAL: AS NOTED
DRAWN: DCR	VERTICAL: N/A
DESIGNED: DCR	REVISION: 6
CHECKED: GCA	STATUS: FINAL DRAWINGS RELEASED FOR CONSTRUCTION
PROJ. MGR.: CHS	

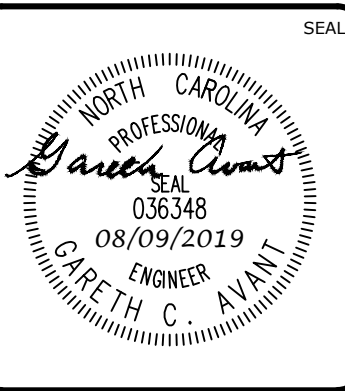
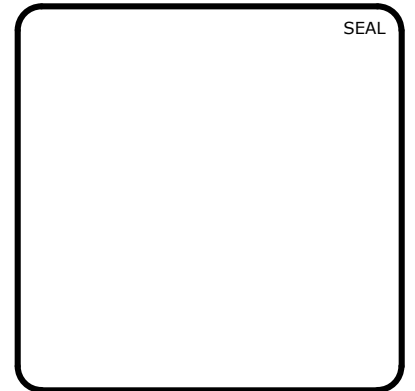


LEGEND

SS	SANITARY SEWER LINE
W	WATER MAIN
SS	EXISTING SANITARY SEWER LINE
W	EXISTING SS FORCE MAIN
W	EXISTING WATER MAIN
OE	EXISTING OVERHEAD ELECTRIC
ELEC	EXISTING UNDERGROUND ELECTRIC
TWC	EXISTING TIME WARNER CABLE LINE
AT&T	EXISTING AT&T LINE
●	SANITARY SEWER MANHOLE
⊗	SANITARY SEWER CLEANOUT
⊕	WATER METER
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---	ROW
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2	REVISIONS PER CHATHAM COUNTY SOIL EROSION AND SEDIMENTATION CONTROL COMMENTS	2019.06.05
1	INITIAL SUBMITTAL	2019.05.09



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UTILITY PLAN

DATE: MAY 9, 2019	SCALE: C2.1	MSC FILE NUMBER: C2.1
MCE PROJ. # 02735-0239	HORIZONTAL: AS NOTED	DRAWING NUMBER: C2.2
DRAWN: DCR	VERTICAL: N/A	
DESIGNED: DCR		
CHECKED: GCA		
PROJ. MGR.: CHS		
STATUS: FINAL DRAWINGS RELEASED FOR CONSTRUCTION	REVISION: 6	