

BRIAR CHAPEL

BC PHASE 16 NORTH

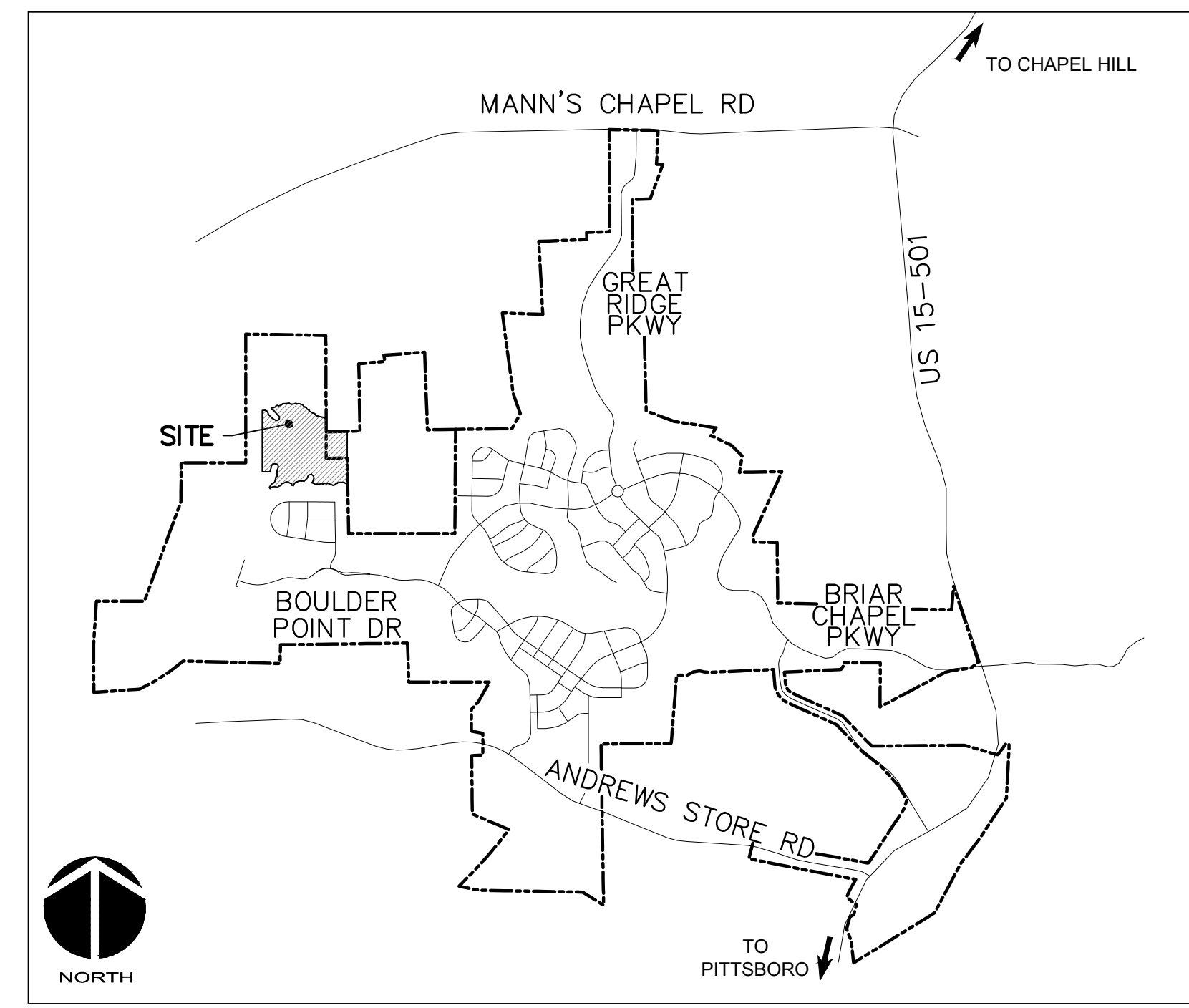
CONSTRUCTION DRAWINGS

U.S. HWY 15-501 and MANN'S CHAPEL ROAD

CHATHAM COUNTY, NORTH CAROLINA

DATE: MARCH 21, 2018
 REVISED: JUNE 21, 2018

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>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>B. Chatham County Environmental Services Dunlap Building 80 East Street Pittsboro, NC 27312 (919) 542-0945 phone Contact: Brian Burkhart, PE Email: brian.burkhart@chathamnc.org</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>C. Chatham County Soil Erosion and Sedimentation Control Dunlap Building 80 East Street Pittsboro, NC 27312 (919) 545-8339 phone Contact: Rachael Thorn Email: rachael.thorn@chathamnc.org</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>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>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:
 BC PHASE 16 NORTH
 CHATHAM COUNTY, NORTH CAROLINA

OWNER:
 NNP BRIAR CHAPEL, LLC
 1382 BRIAR CHAPEL PARKWAY
 CHAPEL HILL, NC 27516
 PHONE: (919) 951-0700
 FAX: (919) 240-4963
 CONTACT: LEE BOWMAN
 EMAIL: lbowman@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: 23.92 AC

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

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C4.2	PLAN & PROFILE ROAD A STA. 19+00.00 TO 28+64.51
C4.3	PLAN & PROFILE ROAD B STA. 10+00 TO 14+43.38 PLAN & PROFILE SSMH-16-201 TO PUMP STATION STA. 10+00.00 TO STA. 11+60.81
C4.4	PLAN & PROFILE BMP #35 OUTFALL STA. 10+00 TO 13+85.53 PLAN & PROFILE BMP #36 OUTFALL STA. 10+00.00 TO STA. 13+10.16
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D4.2	BMP #35 PLAN & DETAILS
D4.3	BMP #35 PLAN & DETAILS
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D4.6	BMP #36 PLAN & DETAILS
D4.7	STORM DRAINAGE & SANITARY SEWER TABLES



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FINAL DRAWINGS
 FOR REVIEW PURPOSES ONLY

BC PHASE 16 NORTH
 02735-0222
 FINAL DRAWINGS - FOR REVIEW PURPOSES ONLY

**EXISTING EROSION CONTROL MEASURES
APPROVED 7/28/216, PROJECT# 2016-034**

DEMOLITION NOTES:

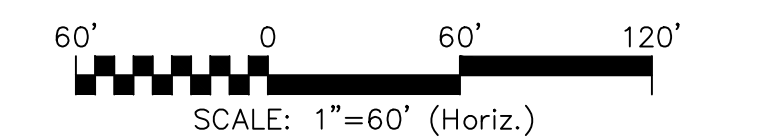
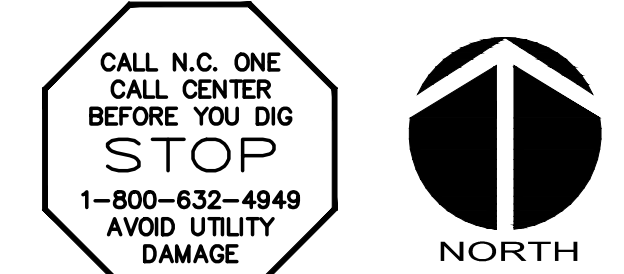
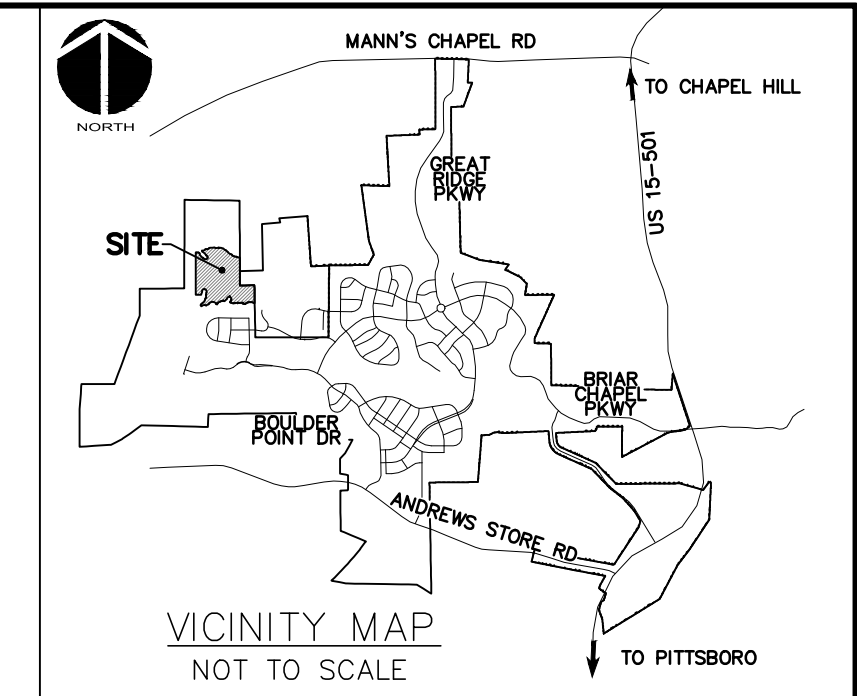
1. NO EARTH-DISTURBING ACTIVITIES SHALL COMMENCE UNTIL ALL PERIMETER EROSION CONTROL MEASURES ARE IN PLACE IN ACCORDANCE WITH THE EROSION CONTROL SEQUENCE SHOWN IN THESE PLANS.
2. NO EARTH-DISTURBING ACTIVITY OR OTHER WORK SHALL TAKE PLACE WITHIN WETLAND AREAS NOTED ON PLANS. CONTRACTOR SHALL FIELD VERIFY 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.

***** 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.

SURVEY REFERENCES:

- DEED BOOK 1492, PAGE 581
- DEED BOOK 1198, PAGE 510
- DEED BOOK 833, PAGE 752
- DEED BOOK 1481, PAGE 244

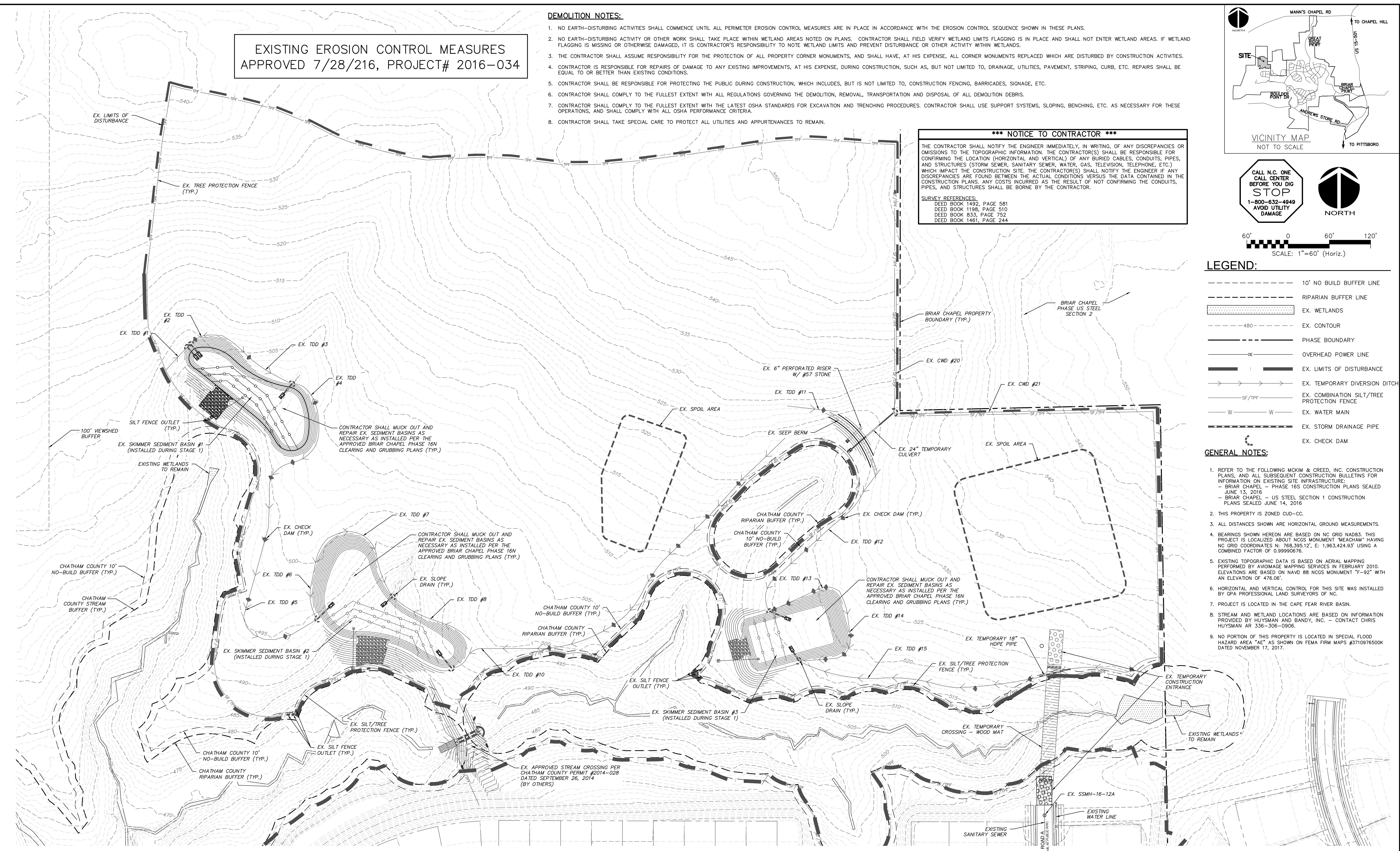


LEGEND:

- 10' NO BUILD BUFFER LINE
- RIPARIAN BUFFER LINE
- EX. WETLANDS
- 480 --- EX. CONTOUR
- PHASE BOUNDARY
- OE --- OVERHEAD POWER LINE
- EX. LIMITS OF DISTURBANCE
- EX. TEMPORARY DIVERSION DITCH
- SF/TFF --- EX. COMBINATION SILT/TREE PROTECTION FENCE
- W --- EX. WATER MAIN
- EX. STORM DRAINAGE PIPE
- EX. CHECK DAM

GENERAL NOTES:

1. REFER TO THE FOLLOWING MCKIM & CREED, INC. CONSTRUCTION PLANS, AND ALL SUBSEQUENT CONSTRUCTION BULLETINS FOR INFORMATION ON EXISTING SITE INFRASTRUCTURE:
 - BRIAR CHAPEL - PHASE 16S CONSTRUCTION PLANS SEALED JUNE 13, 2016
 - BRIAR CHAPEL - US STEEL SECTION 1 CONSTRUCTION PLANS SEALED JUNE 14, 2016
2. THIS PROPERTY IS ZONED CUD-CC.
3. ALL DISTANCES SHOWN ARE HORIZONTAL GROUND MEASUREMENTS.
4. BEARINGS SHOWN HEREON ARE BASED ON NC GRID NAD83. THIS PROJECT IS LOCALIZED ABOUT NCGS MONUMENT "MEACHAM" HAVING NC GRID COORDINATES N: 768,395.12', E: 1,963,424.93' USING A COMBINED FACTOR OF 0.99980676.
5. EXISTING TOPOGRAPHIC DATA IS BASED ON AERIAL MAPPING PERFORMED BY AVOIAGE MAPPING SERVICES IN FEBRUARY 2010. ELEVATIONS ARE BASED ON NAVD 88 NCGS MONUMENT "F-92" WITH AN ELEVATION OF 476.06'.
6. HORIZONTAL AND VERTICAL CONTROL FOR THIS SITE WAS INSTALLED BY GPA PROFESSIONAL LAND SURVEYORS OF NC.
7. PROJECT IS LOCATED IN THE CAPE FEAR RIVER BASIN.
8. STREAM AND WETLAND LOCATIONS ARE BASED ON INFORMATION PROVIDED BY HUYSMAN AND BANDY, INC. - CONTACT CHRIS HUYSMAN AR 336-306-0906.
9. NO PORTION OF THIS PROPERTY IS LOCATED IN SPECIAL FLOOD HAZARD AREA "AE" AS SHOWN ON FEMA FIRM MAPS #3710976500K DATED NOVEMBER 17, 2017.



REV. NO.	DESCRIPTION	DATE
0	INITIAL SUBMITTAL	2018.03.21

SEAL

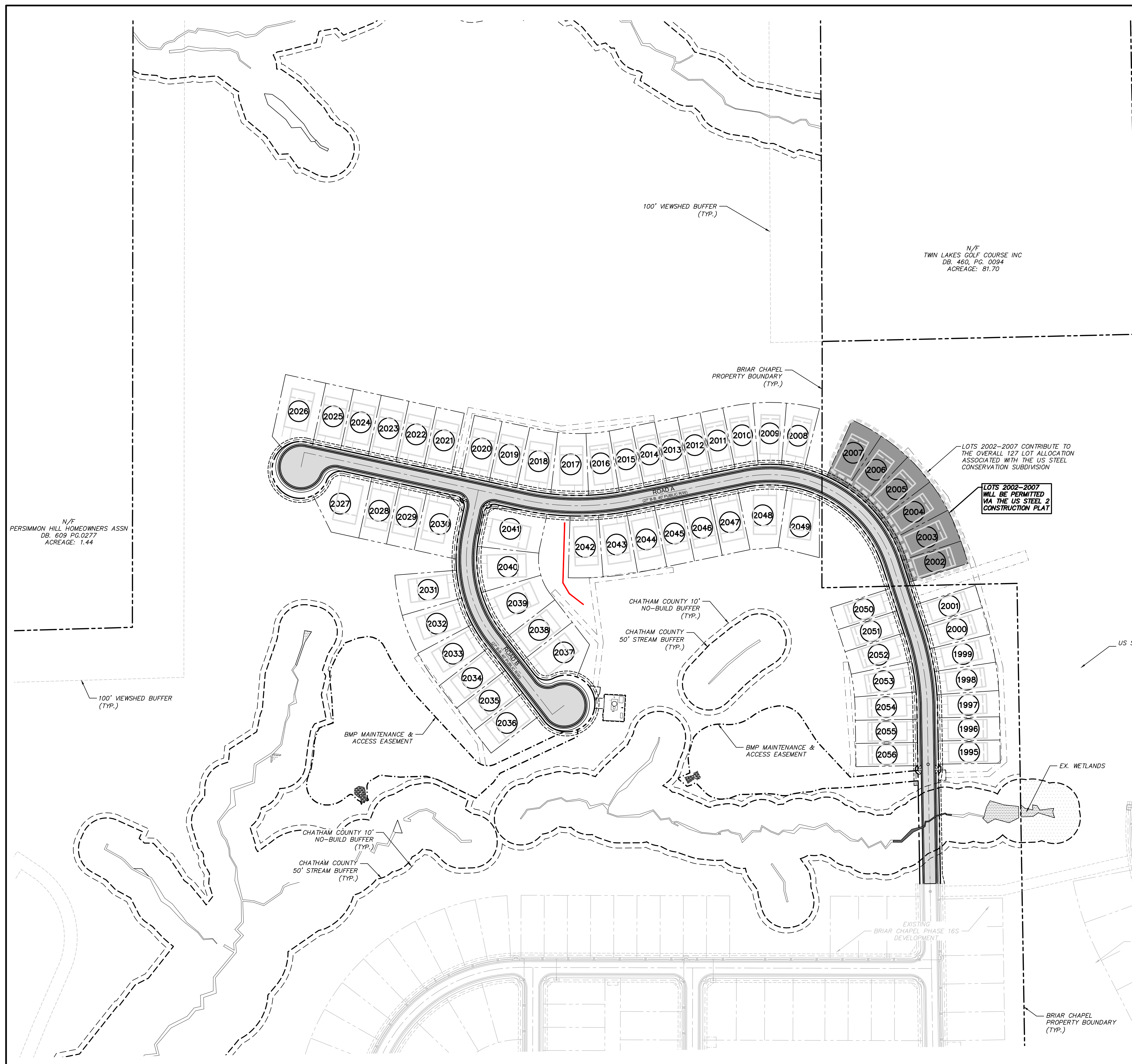
1730 Varsity Drive, Suite 500
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by
Newland COMMUNITIES

**BRIAR CHAPEL
BC PHASE 16 NORTH
CHATHAM COUNTY, NORTH CAROLINA**

**OVERALL
EXISTING CONDITIONS/
DEMOLITION PLAN**

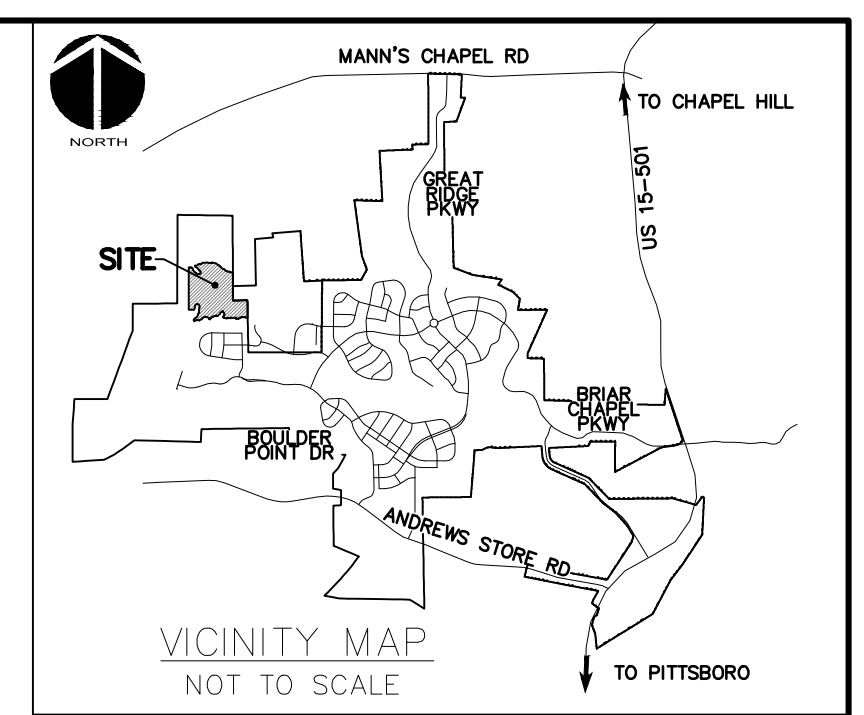
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DRAWN: BSS		
DESIGNED: BSS		
CHECKED: GCA		
PROJ. MGR.: CHS		
STATUS: FINAL DRAWINGS FOR REVIEW PURPOSES ONLY	REVISION: 0	



LOT AREA TABLE		
LOT #	AREA (SF)	AREA (AC)
1995	5400.00	0.12
1996	5400.00	0.12
1997	5758.17	0.13
1998	6024.96	0.14
1999	6024.96	0.14
2000	5921.31	0.14
2001	5400.00	0.12
2002	5428.79	0.12
2003	6607.66	0.15
2004	6607.66	0.15
2005	6607.66	0.15
2006	6607.66	0.15
2007	6607.66	0.15
2008	6607.66	0.15
2009	6607.66	0.15
2010	6303.53	0.14
2011	5399.99	0.12
2012	5400.00	0.12
2013	5400.00	0.12
2014	5400.00	0.12
2015	5652.89	0.13

LOT AREA TABLE		
LOT #	AREA (SF)	AREA (AC)
2016	6304.11	0.14
2017	7707.51	0.18
2018	7336.44	0.17
2019	6600.00	0.15
2020	6600.00	0.15
2021	6600.00	0.15
2022	6600.00	0.15
2023	6600.00	0.15
2024	6600.00	0.15
2025	6595.80	0.15
2026	10168.83	0.23
2027	9902.09	0.23
2028	6600.00	0.15
2029	6600.00	0.15
2030	9290.30	0.21
2031	8080.68	0.19
2032	8080.68	0.19
2033	7841.70	0.18
2034	6600.00	0.15
2035	6600.00	0.15
2036	6600.00	0.15

LOT AREA TABLE		
LOT #	AREA (SF)	AREA (AC)
2037	8301.06	0.19
2038	6600.00	0.15
2039	9338.89	0.21
2040	8020.59	0.18
2041	9683.40	0.22
2042	7364.97	0.17
2043	7364.97	0.17
2044	6749.36	0.15
2045	6600.00	0.15
2046	6600.00	0.15
2047	6600.00	0.15
2050	5400.00	0.12
2051	5400.00	0.12
2052	6154.63	0.14
2053	6303.85	0.14
2054	5872.71	0.13
2055	5400.00	0.12
2056	5400.00	0.12



SITE GENERAL NOTES:

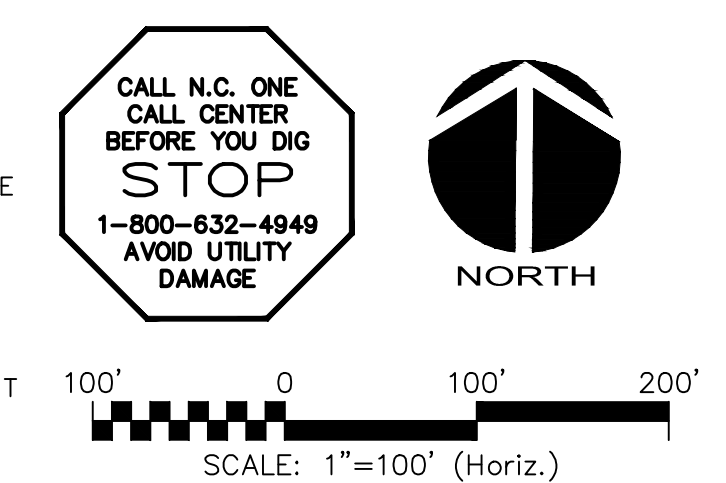
- ALL DIMENSIONS AND GRADES SHOWN ON THE PLANS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY OWNER IF ANY DISCREPANCIES EXIST PRIOR TO CONSTRUCTION. NO ADDITIONAL COMPENSATION WILL BE PAID TO THE CONTRACTOR FOR ANY WORK DONE DUE TO DIMENSIONS OR GRADES SHOWN INCORRECTLY ON THE PLANS IF SUCH NOTIFICATION HAS NOT BEEN GIVEN.
- REFER TO THE FOLLOWING MCKIM & CREED, INC. CONSTRUCTION PLANS, AND ALL SUBSEQUENT CONSTRUCTION BULLETINS FOR INFORMATION ON EXISTING SITE INFRASTRUCTURE:
 - US STEEL SECTION 1 CONSTRUCTION PLANS SEALED JUNE 14, 2016.
 - BRIAR CHAPEL - PHASE 16S CONSTRUCTION PLANS SEALED APRIL 6, 2017.
- STREAM AND WETLAND LOCATIONS ARE BASED ON INFORMATION PROVIDED BY HUYSMAN AND BANDY, INC. - CONTACT CHRIS HUYSMAN AT 336-306-0906.
- NO PORTION OF THIS PROPERTY IS LOCATED IN SPECIAL FLOOD HAZARD AREA "AE" AS SHOWN ON FEMA FIRM MAP #3710976500K DATED NOVEMBER 17, 2017.
- ALL PROPOSED ROADWAY DIMENSIONS AS SHOWN ARE MEASURED FROM BACK OF CURB TO BACK OF CURB.
- 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 336-629-1423.
- REFER TO PLAN AND PROFILE SHEETS FOR DETAILED SANITARY SEWER AND STORM DRAINAGE INFORMATION WITHIN PUBLIC ROADS.

CHATHAM COUNTY REQUIRED SITE NOTES:

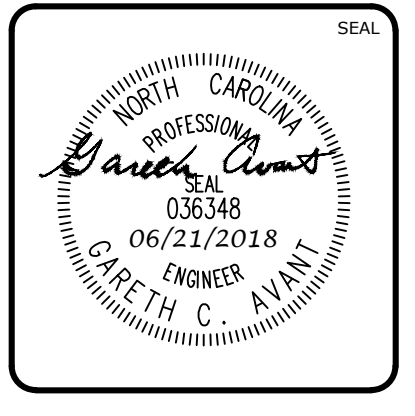
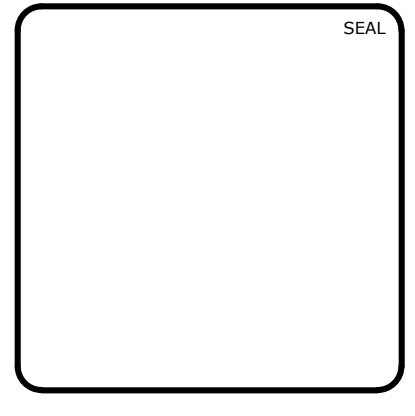
- PROPERTY OWNER/DEVELOPER:
 NNP BRIAR CHAPEL, LLC
 1342 BRIAR CHAPEL PARKWAY
 CHAPEL HILL, NC 27516
 PHONE: (919) 951-0700
- SITE AKPAR #: 82829, 1184, 2177

LEGEND:

- R/W LINE
- FUTURE R/W LINE
- EXISTING R/W LINE
- HOA EASEMENT LINE
- PUBLIC UTILITY EASEMENT LINE
- PRIVATE UTILITY EASEMENT LINE
- PUBLIC DRAINAGE EASEMENT
- PRIVATE DRAINAGE EASEMENT
- EXISTING POWER LINE EASEMENT
- OVERHEAD POWER LINE
- 10' NO BUILD BUFFER LINE
- RIPARIAN BUFFER LINE
- EX. WETLANDS
- BMP MAINTENANCE & ACCESS EASEMENT
- ROADWAY CENTERLINE



REV. NO.	DESCRIPTIONS	DATE
5	UPDATED PER CHATHAM COUNTY TRC COMMENTS	2018.06.21
4	REVISIONS PER NCDOT	2018.06.05
3	REVISION PER NCDOT PWSS	2018.05.10
2	REVISIONS PER CHATHAM COUNTY EROSION CONTROL	2018.04.24
1	REVISIONS PER CHATHAM COUNTY PUBLIC WORKS	2018.04.19
0	INITIAL SUBMITTAL	2018.03.21



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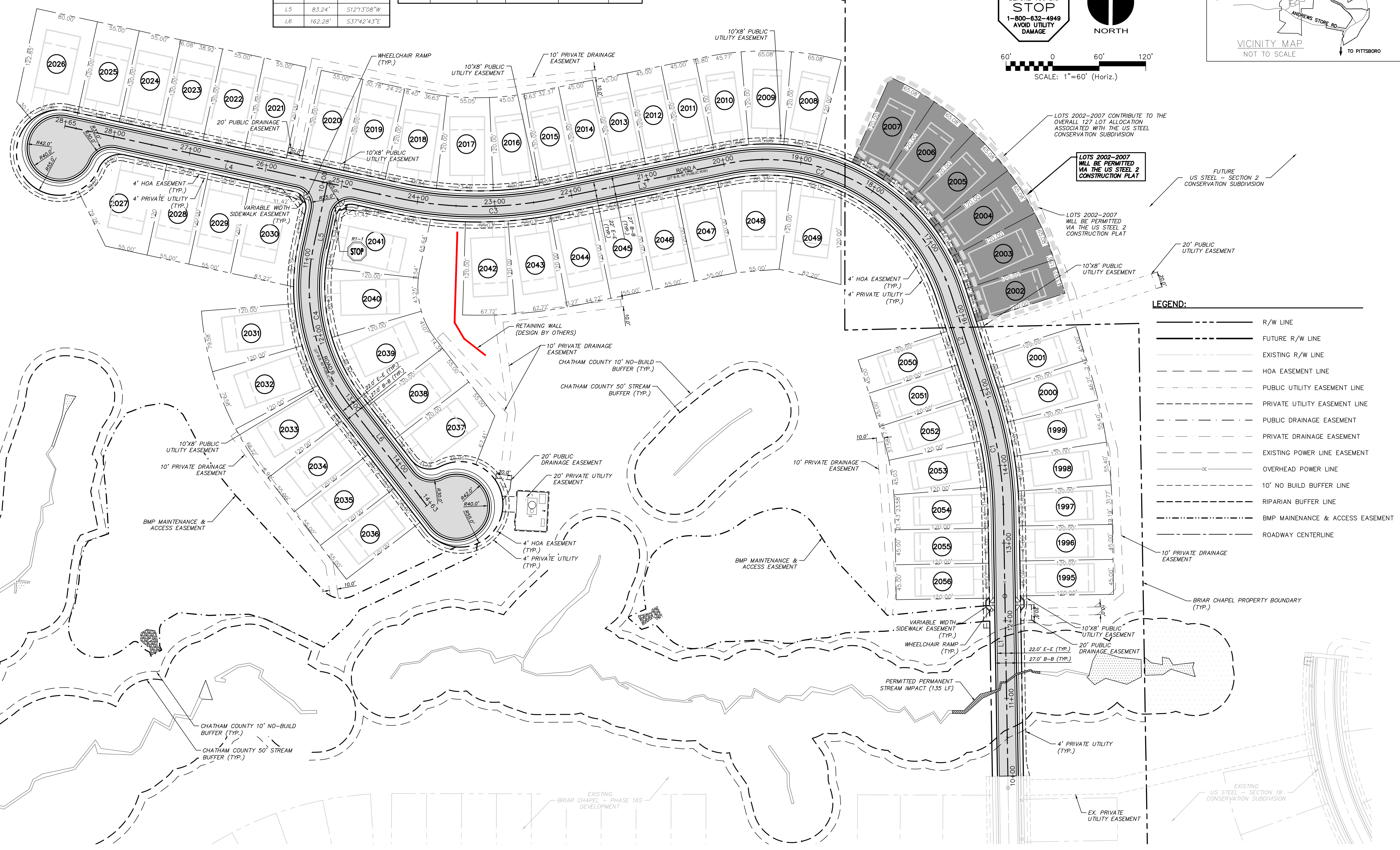
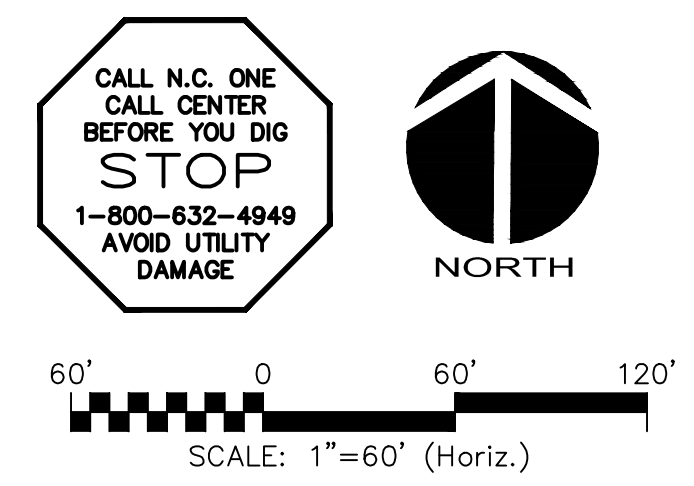
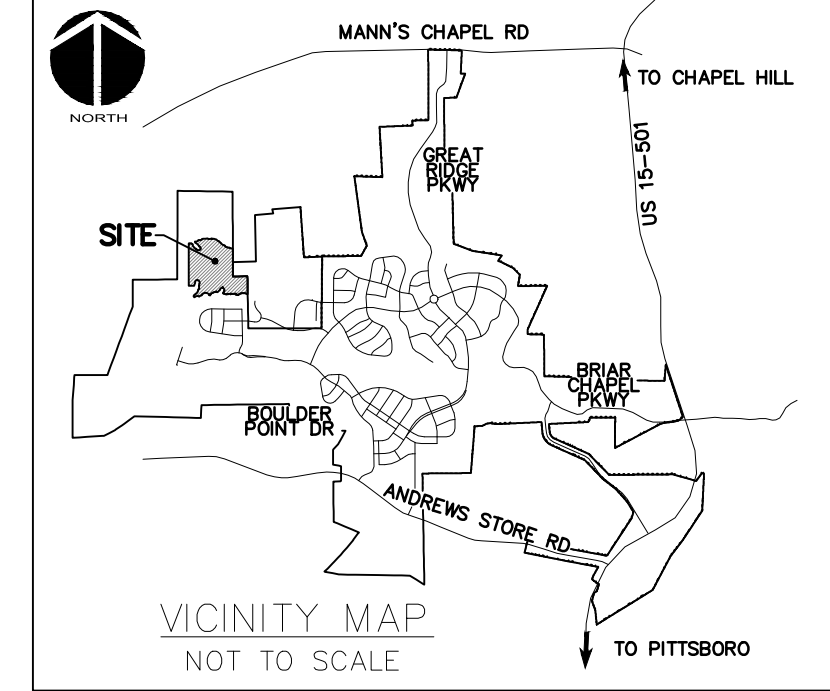
BRIAR CHAPEL™
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Newland COMMUNITIES

**BRIAR CHAPEL
 BC PHASE 16 NORTH
 CHATHAM COUNTY, NORTH CAROLINA**

OVERALL SITE PLAN

DATE: MARCH 21, 2018	SCALE: HORIZONTAL: AS NOTED VERTICAL: N/A	MSC FILE NUMBER: C1.X DRAWING NUMBER: C1.0
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DRAWN: BSS	PROJ. MGR.: CHS	
STATUS: FINAL DRAWINGS FOR REVIEW PURPOSES ONLY	REVISION: 5	

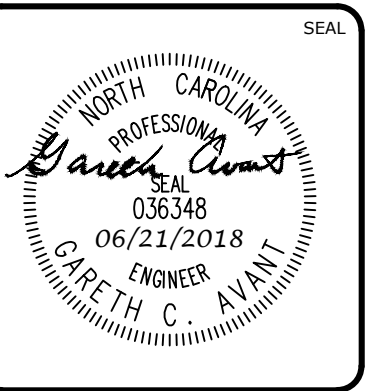
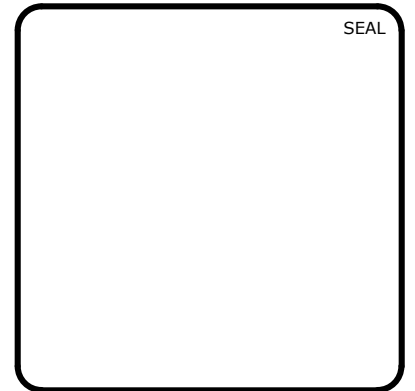
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L1	340.79'	N0°56'46"W	C1	147.49'	500.00'	N9°23'48"W	146.95'	16°54'03"
L2	141.42'	N17°50'49"W	C2	365.22'	250.00'	N59°41'55"W	333.60'	8°34'12"
L3	226.17'	S78°26'59"W	C3	207.43'	500.00'	N89°39'57"W	205.94'	2°34'610"
L4	435.98'	N77°46'52"W	C4	217.86'	250.00'	S12°44'47"E	211.04'	49°55'51"
L5	83.24'	S12°13'08"W						
L6	162.28'	S37°42'43"E						



LEGEND:

	R/W LINE
	FUTURE R/W LINE
	EXISTING R/W LINE
	HOA EASEMENT LINE
	PUBLIC UTILITY EASEMENT LINE
	PRIVATE UTILITY EASEMENT LINE
	PUBLIC DRAINAGE EASEMENT
	PRIVATE DRAINAGE EASEMENT
	EXISTING POWER LINE EASEMENT
	OVERHEAD POWER LINE
	10' NO BUILD BUFFER LINE
	RIPARIAN BUFFER LINE
	BMP MAINTENANCE & ACCESS EASEMENT
	ROADWAY CENTERLINE

REV. NO.	DESCRIPTIONS	DATE
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1	REVISIONS PER CHATHAM COUNTY PUBLIC WORKS	2018.04.19
0	INITIAL SUBMITTAL	2018.03.21



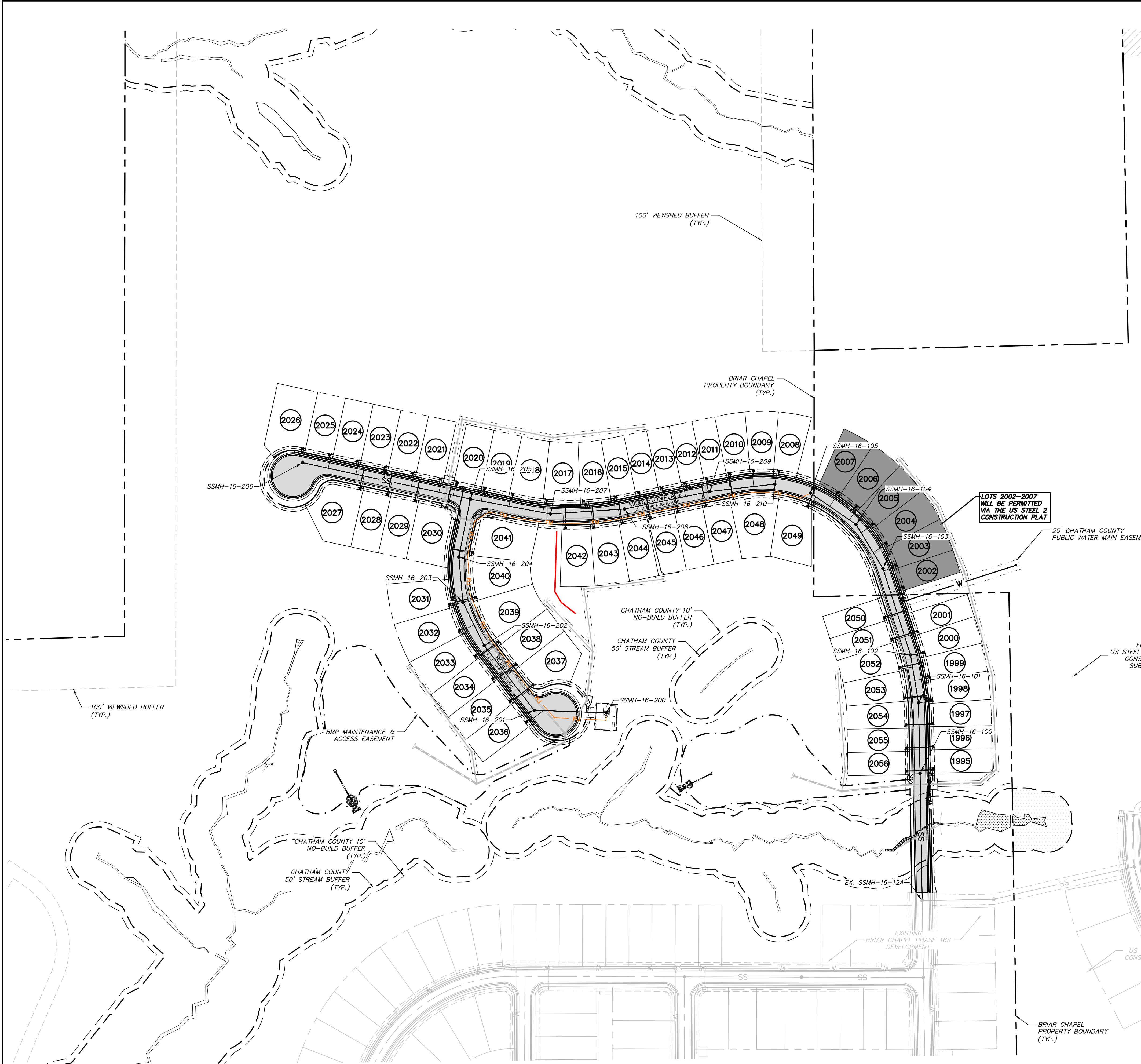
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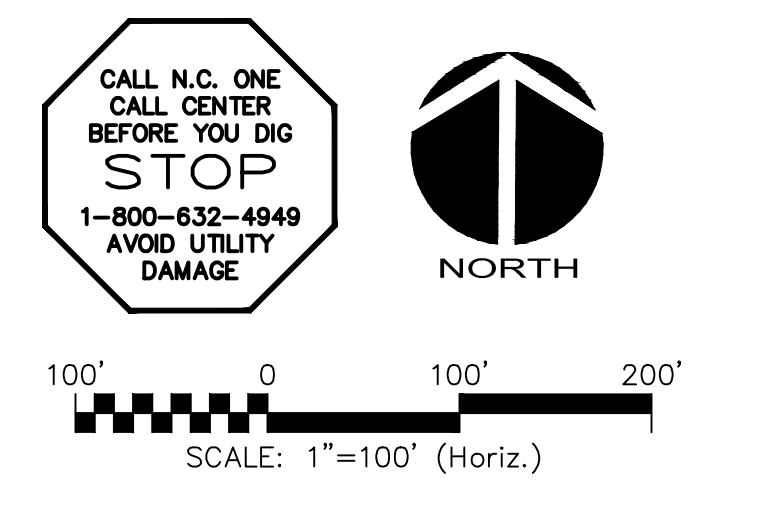
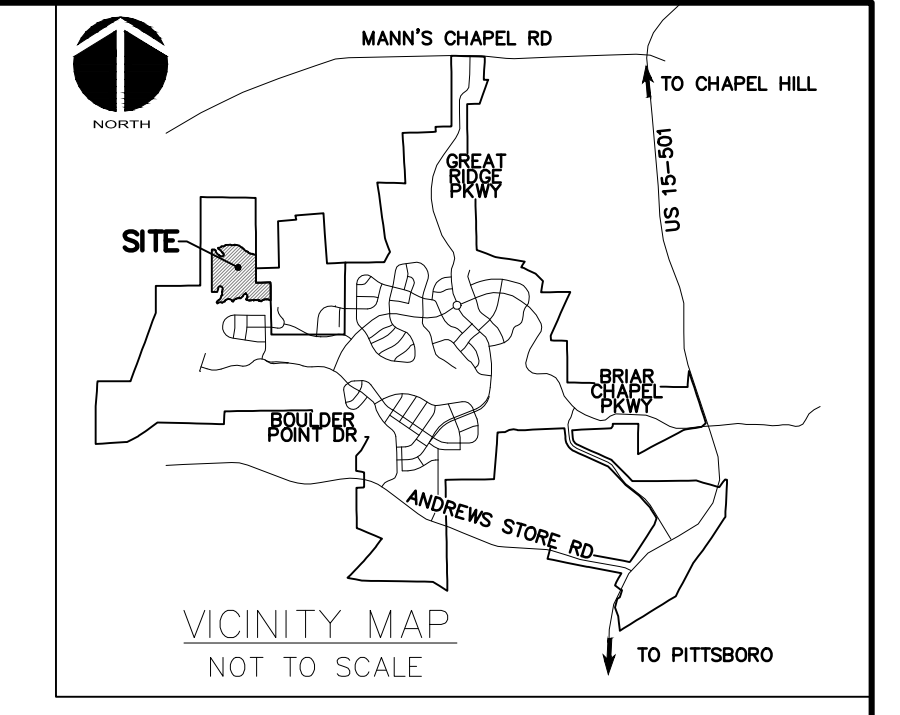
SITE PLAN

DATE: MARCH 21, 2018	SCALE: AS NOTED	MSC FILE NUMBER: C1.X
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DRAWN: BSS	VERTICAL: N/A	
DESIGNED: BSS		
CHECKED: GCA		
PROJ. MGR.: CHS		
STATUS: FINAL DRAWINGS FOR REVIEW PURPOSES ONLY	REVISION: 5	



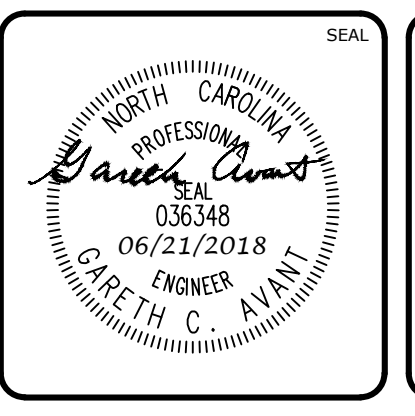
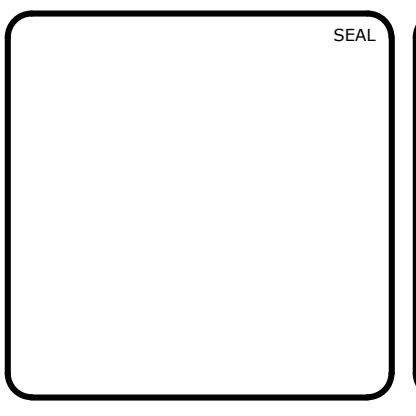
LEGEND

SS	SANITARY SEWER LINE
W	WATER MAIN
FM	SANITARY SEWER FORCE MAIN (DESIGNED BY OTHERS)
SS	EXISTING SANITARY SEWER LINE
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
- - - -	CHATHAM COUNTY STREAM BUFFER
- . - . - .	4' H.O.A. EASEMENT
- . - . - .	4' PRIVATE UTILITY EASEMENT
▨	EXISTING WETLANDS



- UTILITY NOTES:**
- ALL SANITARY SEWER CONSTRUCTION IS TO BE PERFORMED IN ACCORDANCE WITH CURRENT NCDENR & CHATHAM COUNTY STANDARDS, SPECIFICATIONS & DETAILS.
 - ALL WATER MAIN CONSTRUCTION IS TO BE PERFORMED IN ACCORDANCE WITH CURRENT CHATHAM COUNTY STANDARDS, SPECIFICATIONS & DETAILS.
 - ALL PERMITS RELATING TO THIS PROJECT MUST BE OBTAINED PRIOR TO CONSTRUCTION.
 - 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.
 - 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:
 - 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
 - THE WATER MAIN IS LAID IN THE SAME TRENCH AS THE SEWER WITH THE WATER MAIN LOCATED AT ONE SIDE ON 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.
 - 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.
 - 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.
 - 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.
 - 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.
 - WATER SERVICES SHALL BE EXTENDED FROM THE MAIN TO A METER BOX LOCATED WITHIN THE RIGHT OF WAY. THE METER SHALL BE PLACED AT THE EDGE OF THE SERVICED 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.
 - MANHOLES SHALL BE SPACED A MAXIMUM DISTANCE OF 400 FEET APART.
 - 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.
 - SERVICE CONNECTIONS FOR THE SANITARY SEWER LINES SHOULD BE PERPENDICULAR FROM THE MAIN LINE TO THE EDGE OF THE SERVICED 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.
 - 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".
 - 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.
 - SANITARY SEWER WITHIN PRIVATE EASEMENTS TO BE OWNED, OPERATED AND MAINTAINED BY OLD NORTH STATE WATER COMPANY, LLC.
 - WATER MAINS WILL BE 3.5' OFF CURB AND GUTTER UNLESS SHOWN OTHERWISE.
 - ALL WATER MAINS WITHIN PUBLIC EASEMENTS AND PUBLIC RIGHT-OF-WAY TO BE OWNED, OPERATED AND MAINTAINED BY CHATHAM COUNTY, AND WILL BE CONTAINED WITHIN 20' WIDE PUBLIC WATER LINE EASEMENT (MINIMUM) CENTERED ON THE PROPOSED WATER MAIN.
 - CONTRACTOR TO COORDINATE WITH CHATHAM COUNTY PUBLIC WORKS FOR ALL IRRIGATION SLEEVE SIZING.

REV. NO.	DESCRIPTIONS	DATE
5	UPDATED PER CHATHAM COUNTY TRC COMMENTS	2018.06.21
4	REVISIONS PER NCDOT	2018.06.05
3	REVISION PER NCDOT PWSS	2018.05.10
2	REVISIONS PER CHATHAM COUNTY EROSION CONTROL	2018.04.24
1	REVISIONS PER CHATHAM COUNTY PUBLIC WORKS	2018.04.19
0	INITIAL SUBMITTAL	2018.03.21



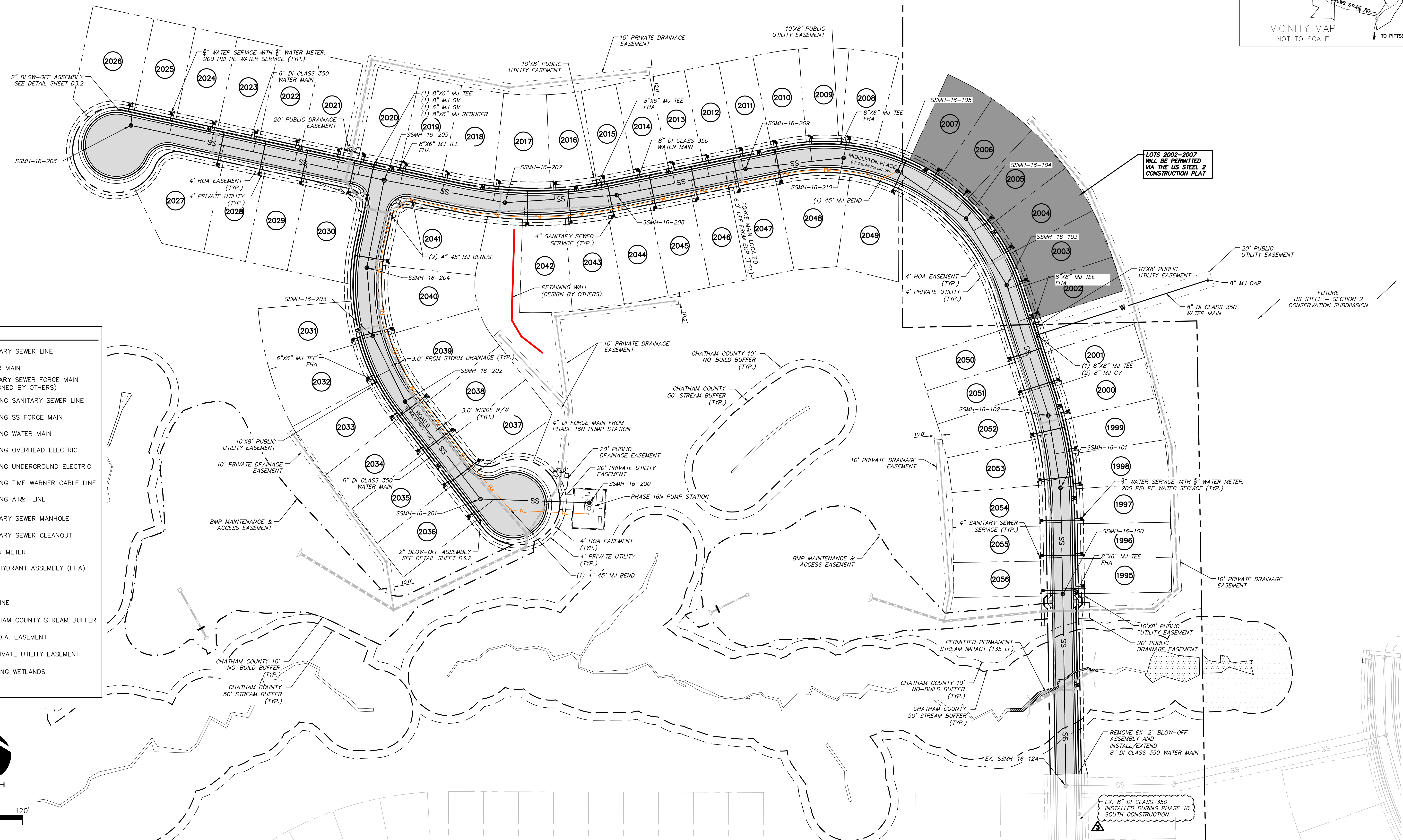
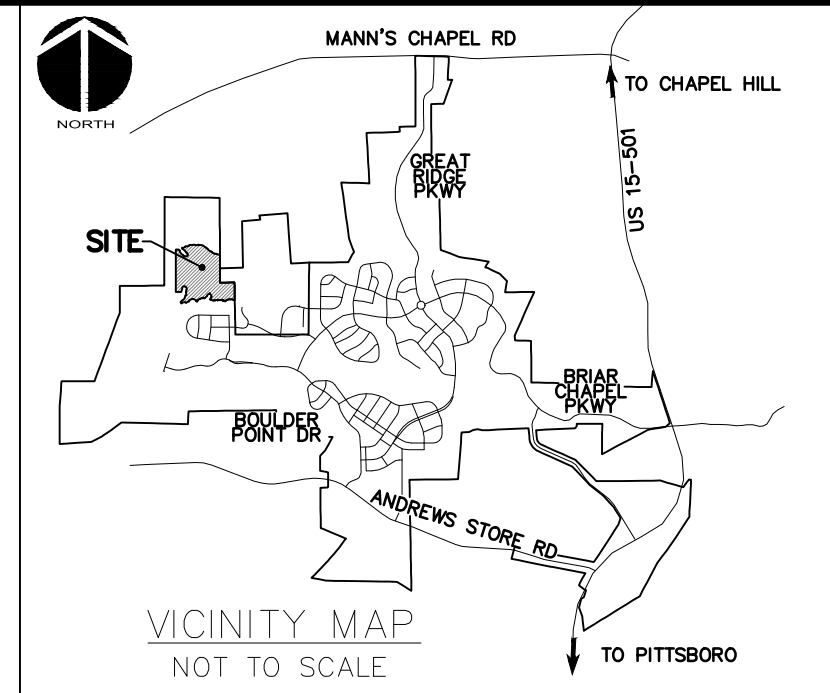
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 1730 Varsity Drive, Suite 500
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**BRIAR CHAPEL
 BC PHASE 16 NORTH
 CHATHAM COUNTY, NORTH CAROLINA**

OVERALL UTILITY PLAN

DATE: MARCH 21, 2018	SCALE: HORIZONTAL: AS NOTED VERTICAL: N/A	MISC FILE NUMBER: C2.X
MCE PROJ. # 02735-0206		DRAWING NUMBER: C2.0
DRAWN: BSS		
DESIGNED: BSS		
CHECKED: GCA		
PROJ. MGR.: CHS		
STATUS: FINAL DRAWINGS FOR REVIEW PURPOSES ONLY	REVISION: 5	



LEGEND

SS	SANITARY SEWER LINE
W	WATER MAIN
FM	SANITARY SEWER FORCE MAIN (DESIGNED BY OTHERS)
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
---	CHATHAM COUNTY STREAM BUFFER
---	4' H.O.A. EASEMENT
---	4' PRIVATE UTILITY EASEMENT
---	EXISTING WETLANDS

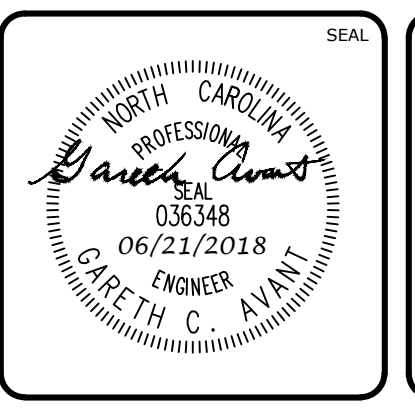
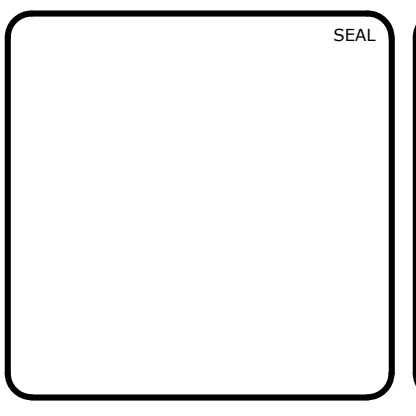
CALL N.C. ONE CALL CENTER BEFORE YOU DIG
STOP
 1-800-632-4949
 AVOID UTILITY DAMAGE

NORTH

0 60' 120'

SCALE: 1"=60' (Horiz.)

REV. NO.	DESCRIPTIONS	DATE
5	UPDATED PER CHATHAM COUNTY TRC COMMENTS	2018.06.21
4	REVISIONS PER NCDOT	2018.06.05
3	REVISION PER NCDOT PWSS	2018.05.10
2	REVISIONS PER CHATHAM COUNTY EROSION CONTROL	2018.04.24
1	REVISIONS PER CHATHAM COUNTY PUBLIC WORKS	2018.04.19
0	INITIAL SUBMITTAL	2018.03.21



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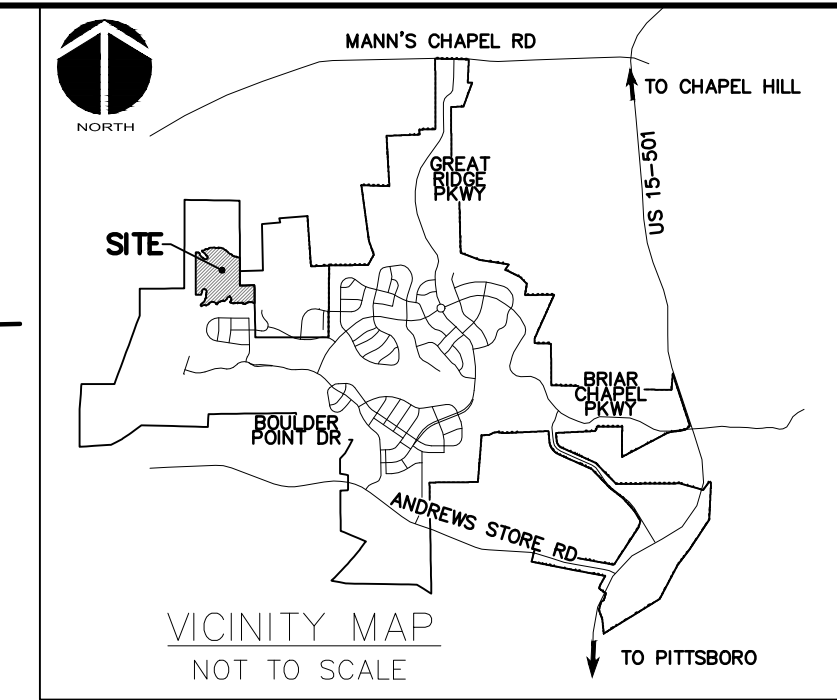
by **Newland COMMUNITIES**

**BRIAR CHAPEL
 BC PHASE 16 NORTH
 CHATHAM COUNTY, NORTH CAROLINA**

UTILITY PLAN

DATE: MARCH 21, 2018	SCALE: AS NOTED	MFC FILE NUMBER: C2.X
MCE PROJ. # 02735-0206	HORIZONTAL: AS NOTED	DRAWING NUMBER: C2.1
DRAWN: BSS	VERTICAL: N/A	
DESIGNED: BSS		
CHECKED: GCA		
PROJ. MGR.: CHS		
STATUS: FINAL DRAWINGS FOR REVIEW PURPOSES ONLY	REVISION: 5	

PLAN FOR REFERENCE ONLY
 APPROVED 7/28/2016, PROJECT# 2016-034

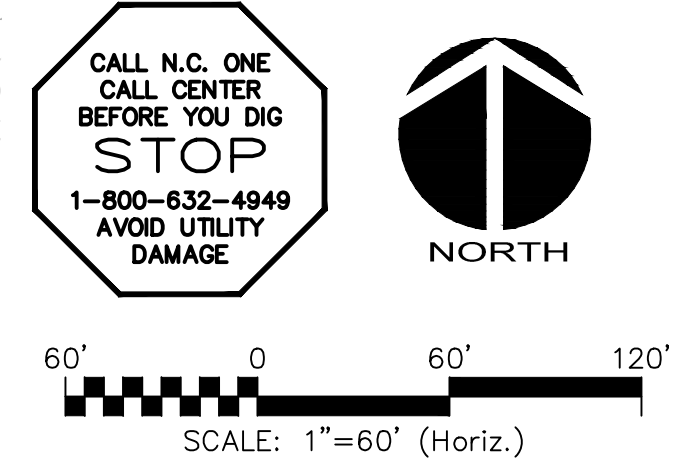
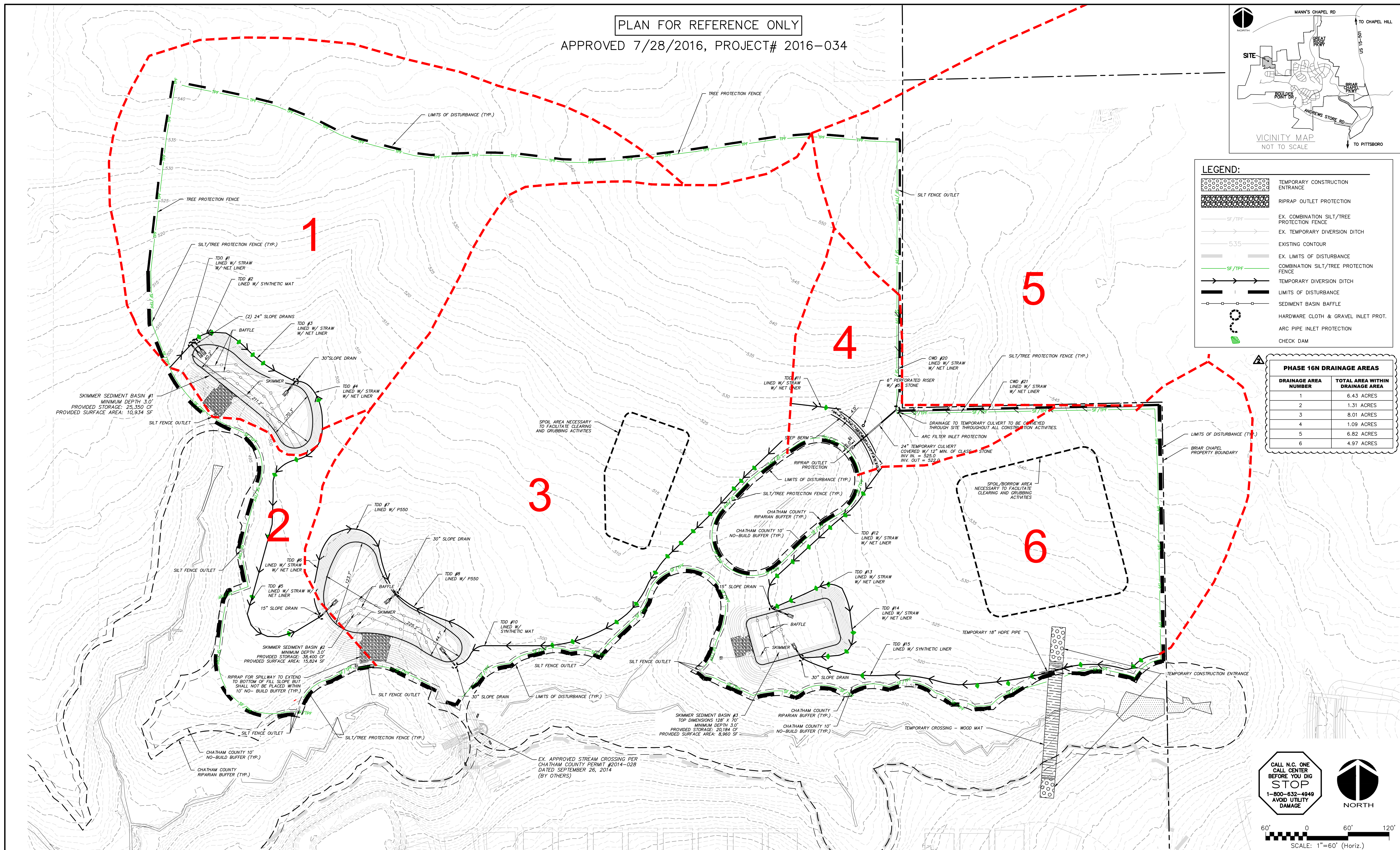


LEGEND:

- TEMPORARY CONSTRUCTION ENTRANCE
- RIPRAP OUTLET PROTECTION
- EX. COMBINATION SILT/TREE PROTECTION FENCE
- EX. TEMPORARY DIVERSION DITCH
- EXISTING CONTOUR
- EX. LIMITS OF DISTURBANCE
- COMBINATION SILT/TREE PROTECTION FENCE
- TEMPORARY DIVERSION DITCH
- LIMITS OF DISTURBANCE
- SEDIMENT BASIN BAFFLE
- HARDWARE CLOTH & GRAVEL INLET PROT.
- ARC PIPE INLET PROTECTION
- CHECK DAM

PHASE 16N DRAINAGE AREAS

DRAINAGE AREA NUMBER	TOTAL AREA WITHIN DRAINAGE AREA
1	6.43 ACRES
2	1.31 ACRES
3	8.01 ACRES
4	1.09 ACRES
5	6.82 ACRES
6	4.97 ACRES



REV. NO.	DESCRIPTIONS	DATE
2	REVISIONS PER CHATHAM COUNTY EROSION CONTROL	2018.04.24
1	REVISIONS PER CHATHAM COUNTY PUBLIC WORKS	2018.04.19
0	INITIAL SUBMITTAL	2018.03.21

SEAL

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 CHATHAM COUNTY, NORTH CAROLINA**

**STAGE 1 EROSION
 CONTROL PLAN**

DATE: MARCH 21, 2018	SCALE: HORIZONTAL: 1" = 60'	MSC FILE NUMBER: C3.X
MCE PROJ. # 02735-0206	VERTICAL: N/A	DRAWING NUMBER: C3.1
DRAWN: BSS		
DESIGNED: BSS		
CHECKED: GCA		
PROJ. MGR.: CHS		
STATUS: FINAL DRAWINGS FOR REVIEW PURPOSES ONLY	REVISION: 2	

STAGE 2 CONSTRUCTION SEQUENCE:

- THE INTENT OF THE CONSTRUCTION SEQUENCE IS TO PROVIDE THE CONTRACTOR WITH A GENERAL GUIDE FOR CONSTRUCTION PURPOSES. THIS SEQUENCE IS NOT INTENDED TO OUTLINE ALL CONSTRUCTION ACTIVITIES ON THIS PROJECT.
- ALL EROSION CONTROL MEASURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CHATHAM COUNTY SOIL EROSION AND SEDIMENTATION CONTROL ORDINANCE.
- ALL EROSION CONTROL MEASURES SHALL BE INSPECTED WEEKLY AND AFTER RAINFALL EVENTS. NEEDED REPAIRS SHALL BE MADE IMMEDIATELY.
- IF IT IS DETERMINED DURING CONSTRUCTION THAT SIGNIFICANT SEDIMENT IS LEAVING THE SITE, DESPITE PROPER IMPLEMENTATION AND MAINTENANCE, THE CONTRACTOR IS OBLIGATED TO TAKE ADDITIONAL CORRECTIVE ACTION. CONTACT CHATHAM COUNTY ENVIRONMENTAL QUALITY DEPARTMENT, OWNER'S REPRESENTATIVE AND ENGINEER WITH ANY ADDITIONAL MEASURES NEEDED.
- CONTRACTOR SHALL ESTABLISH GROUND COVER ON DISTURBED AREAS WITHIN THE NUMBER OF CALENDAR DAYS AFTER COMPLETION OF GRADING PER THE SCHEDULE BELOW:

GRADUAL SLOPES:	(14) CALENDAR DAYS
MODERATE SLOPES:	(10) CALENDAR DAYS
STEEP SLOPES:	(7) CALENDAR DAYS

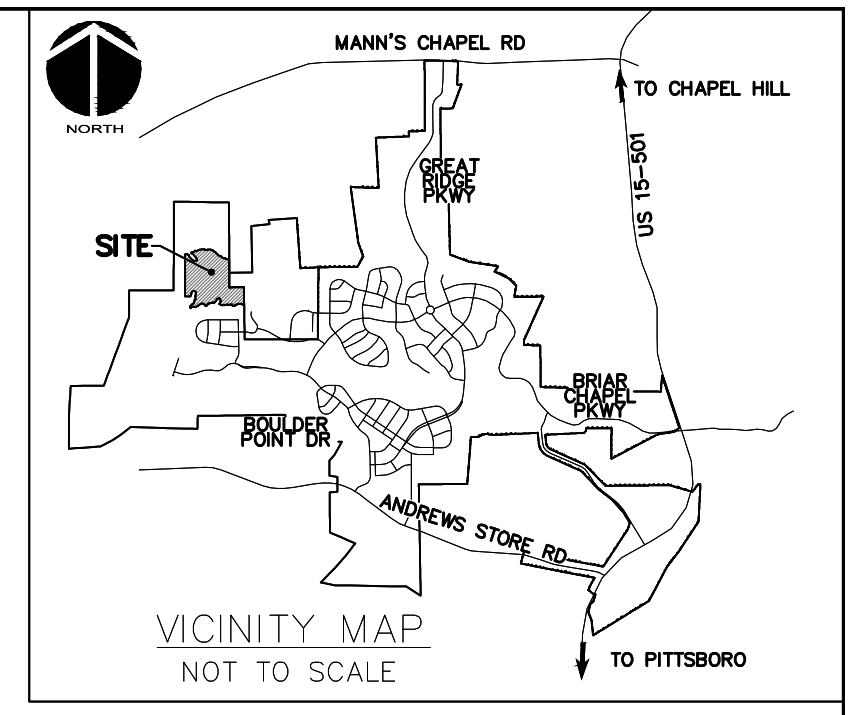
SLOPES ARE AS DEFINED IN THE CHATHAM COUNTY SOIL EROSION AND SEDIMENTATION CONTROL ORDINANCE.
- CONTRACTOR SHALL ARRANGE PRE-CONSTRUCTION MEETING WITH THE OWNER'S REPRESENTATIVE, ENGINEER AND CHATHAM COUNTY.
- OBTAIN LETTER OF PLAN APPROVAL FOR SEDIMENTATION AND EROSION CONTROL FROM CHATHAM COUNTY SOIL EROSION & SEDIMENTATION CONTROL.
- CONTRACTOR TO POST EROSION CONTROL PERMIT PROMINENTLY ON SITE AT ALL TIMES.
- CONTRACTOR TO VERIFY LOCATION AND DEPTH OF EXISTING UTILITIES TO AVOID CONFLICT DURING INSTALLATION OF EROSION CONTROL MEASURES AND STORM DRAINAGE. CONTRACTOR IS TO CALL 1-800-632-4949 FOR 'NO ONE CALL' TO HAVE UTILITIES LOCATED.
- CONTRACTOR TO HAVE A PROFESSIONAL LAND SURVEYOR FLAG PROPERTY LINES, EASEMENTS, LANDSCAPE BUFFERS, STREAM BUFFERS, TREE PROTECTION AREAS AND LIMITS OF DISTURBANCE.
- REHABILITATE ALL EXISTING EROSION CONTROL MEASURES THAT WILL REMAIN THROUGHOUT STAGE 2 EROSION CONTROL. THIS INCLUDES EXISTING DIVERSION DITCHES, EXISTING SKIMMER SEDIMENT BASINS, EXISTING SEEP BERM, EXISTING SILT FENCE AND SILT FENCE OUTLETS, AND TREE PROTECTION.
- CONSTRUCT BMP #35 AND BMP #36, WHICH WILL ACT AS SKIMMER SEDIMENT BASINS DURING STAGE 2 AND STAGE 3 EROSION CONTROL, WITHIN EXISTING LIMITS OF DISTURBANCE TO THE REQUIRED DIMENSIONS AND ELEVATIONS AS DETAILED IN THESE PLANS. GRUB ONLY AS NECESSARY TO INSTALL THE BASINS. MATERIAL EXCAVATED DURING THE CONSTRUCTION OF SEDIMENT BASINS SHALL BE TEMPORARILY STOCKPILED ADJACENT TO BASINS. ONCE ROUGH GRADING OPERATIONS BEGIN, THESE MATERIALS SHALL BE PLACED AS NEEDED IN AREAS OF FILL OR MOVED TO LARGER STOCKPILE AREAS.
- INSTALL BAFFLES PER PLAN. SEED AND MULCH SIDE SLOPES OF SEDIMENT BASINS UPON COMPLETION. INSTALL BIODEGRADABLE MATTING ON SIDE SLOPES OF BASINS IF NECESSARY TO ESTABLISH COVER.
- INSTALL THE ADDITIONAL TREE PROTECTION FENCING AND SILT FENCING AS SHOWN AND DETAILED ON PLAN. TIMBER ONLY AS NECESSARY TO INSTALL THESE DEVICES.

STAGE 2 CONSTRUCTION SEQUENCE (CONT.):

- CONSTRUCT ADDITIONAL DIVERSION DITCHES (TDD #201, 202, 203, 204, 205, AND 206) AS SHOWN AND DETAILED IN THESE PLANS. SEED, MULCH AND INSTALL REQUIRED LINERS IN THESE DITCHES. INSTALL CHECK DAMS IN DITCHES AS SHOWN AND DETAILED ON PLANS. CLEAR ONLY AS NECESSARY TO INSTALL THESE EROSION CONTROL MEASURES.
- CONTACT CHATHAM COUNTY SOIL EROSION & SEDIMENTATION AT 919-545-8339 AND ENGINEER UPON COMPLETION OF INITIAL EROSION CONTROL MEASURES.
- ONCE TEMPORARY SKIMMER SEDIMENT BASINS AND DIVERSION DITCHES HAVE BEEN INSTALLED, GRUB WITHIN DELINEATED DRAINAGE AREAS ASSOCIATED WITH THE INSTALLED TEMPORARY SKIMMER SEDIMENT BASINS.
- CONTRACTOR SHALL STRIP TOPSOIL AND STORE AT DESIGNATED LOCATION. PROVIDE SILT FENCE AROUND PERIMETER OF SLOPE OF ANY STOCKPILE LOCATIONS. CONTRACTOR SHALL REMOVE ALL ROOT MATTER AND ORGANICS FROM WITHIN THE CLEARING LIMITS.
- AFTER COMPLETION OF CLEARING AND GRUBBING, THE SITE SHALL BE TEMPORARILY STABILIZED EXCEPT IN AREAS OF ACTIVE CUT/FILL. ACTIVE AREAS SHOULD NOT EXCEED 25 ACRES AT ONE TIME.
- BEGIN ROUGH GRADING WITHIN CLEARING LIMITS, INCLUDING GRADING FOR PERMANENT WET DETENTION POND.
- MAINTAIN AND PROTECT EXISTING UTILITIES AT ALL TIMES. MAINTAIN DIVERSION DITCHES, BASINS, SILT FENCE AND OTHER EROSION CONTROL MEASURES UNTIL THEY ARE APPROVED TO BE REMOVED.
- PERFORM SEEDING AND MULCHING AS REQUIRED IN ACCORDANCE WITH THE PLANS.
- ONCE GROUND COVER HAS BEEN ESTABLISHED AND OTHER CONSTRUCTION IS COMPLETE, CONTACT CHATHAM COUNTY SOIL EROSION AND SEDIMENTATION AND ENGINEER FOR SITE INSPECTION BEFORE REMOVING ANY TEMPORARY EROSION CONTROL MEASURES.

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 CONTRACTOR FOR ANY WORK DONE DUE TO DIMENSIONS OR GRADES SHOWN INCORRECTLY ON THESE PLANS IF SUCH NOTIFICATION HAS NOT BEEN GIVEN.
- CONTRACTOR SHALL NOTIFY "NORTH CAROLINA ONE CALL AT 1-800-632-4949 AT LEAST 48 HOURS PRIOR TO BEGINNING CONSTRUCTION OR EXCAVATION TO HAVE EXISTING UTILITIES LOCATED. CONTRACTOR TO CONTACT ANY LOCAL UTILITIES THAT PROVIDE THEIR OWN LOCATOR SERVICES INDEPENDENT OF "NORTH CAROLINA ONE CALL".
- OVERHEAD ELECTRIC LINES MAY EXIST ON THE SITE. CONTRACTOR SHALL CONTACT DUKE POWER AT (336) 634-4633 PRIOR TO COMMENCING ANY ACTIVITY WITHIN 200'-FT OF DUKE POWER RIGHT OF WAY.
- EXISTING UTILITIES AND STRUCTURES SHOWN, BOTH UNDERGROUND AND ABOVE GROUND, ARE BASED ON BEST AVAILABLE RECORD DRAWINGS.
- SOIL UNDER PROPOSED BUILDINGS, PAVED AREAS AND WITHIN SLOPES GREATER THAN 3:1 (H:V) SHALL BE APPROVED, PLACED AND COMPACTED AS RECOMMENDED BY THE GEOTECHNICAL ENGINEER. THESE SOILS SHALL BE COMPACTED TO THE STANDARD PROCTOR MAXIMUM DRY DENSITY UNLESS OTHERWISE RECOMMENDED BY THE GEOTECHNICAL ENGINEER.
- ALL GRADED AREAS SHALL BE SLOPED SUCH THAT NO AREAS OF STANDING WATER OCCUR AND ALL AREAS POSITIVELY DRAIN TO DRAINAGE STRUCTURES, SWALES OR STORMWATER MANAGEMENT FACILITIES.
- GRADED SLOPES STEEPER THAN 3:1 SHALL BE STABILIZED WITH CURLEX SINGLE NET (CURLEX 1) MATTING BY AMERICAN EXCELSIOR COMPANY OR APPROVED EQUAL.
- CONTRACTOR IS RESPONSIBLE FOR PROTECTION OF ALL PROPERTY CORNERS AND SHALL REPLACE ALL MARKERS REMOVED IF DAMAGED DURING CONSTRUCTION.
- CONTRACTOR IS RESPONSIBLE FOR DEWATERING AS NECESSARY THROUGHOUT CONSTRUCTION.
- CONTRACTOR IS RESPONSIBLE FOR ADHERING TO ALL PERMIT CONDITIONS, MONITORING AND REPORTING REQUIREMENTS.
- STREAM AND WETLAND LOCATIONS ARE BASED ON DELINEATIONS PROVIDED BY WETLAND AND NATURAL RESOURCES CONSULTANTS - CONTACT CHRIS HUYSMAN AT 336-406-0906.
- NO PORTION OF THIS PROPERTY IS LOCATED IN SPECIAL FLOOD HAZARD AREA "AE" AS SHOWN ON FEMA FIRM MAP #3710976500K DATED NOVEMBER 17, 2017.



- LIMITS OF DISTURBANCE NOTES:**
- LIMITS OF DISTURBANCE LINES ARE CLEARING LIMIT LINES WHICH WILL BE FLAGGED FOR A MINIMUM OF ONE PER 50'-FT OR CLOSER DEPENDING ON VISIBILITY.
 - SILT FENCE AND TREE PROTECTION FENCE LINES ALSO DELINEATE THE LIMITS OF DISTURBANCE. ALL SILT FENCING OR TREE PROTECTION FENCING SHALL BE INSTALLED INSIDE LIMITS OF DISTURBANCE.
 - ADDITIONAL DISTURBED AREA: 2.63 ACRES
 -PHASE 16N PROPERTY DISTURBED AREA: 0.45 ACRES
 -US STEEL SECTION 2 PROPERTY DISTURBED AREA: 2.18 ACRES

SELF INSPECTION NOTICE:

NOTIFICATION OF LAND RESOURCES SEDIMENT AND EROSION CONTROL SELF-INSPECTION PROGRAM.

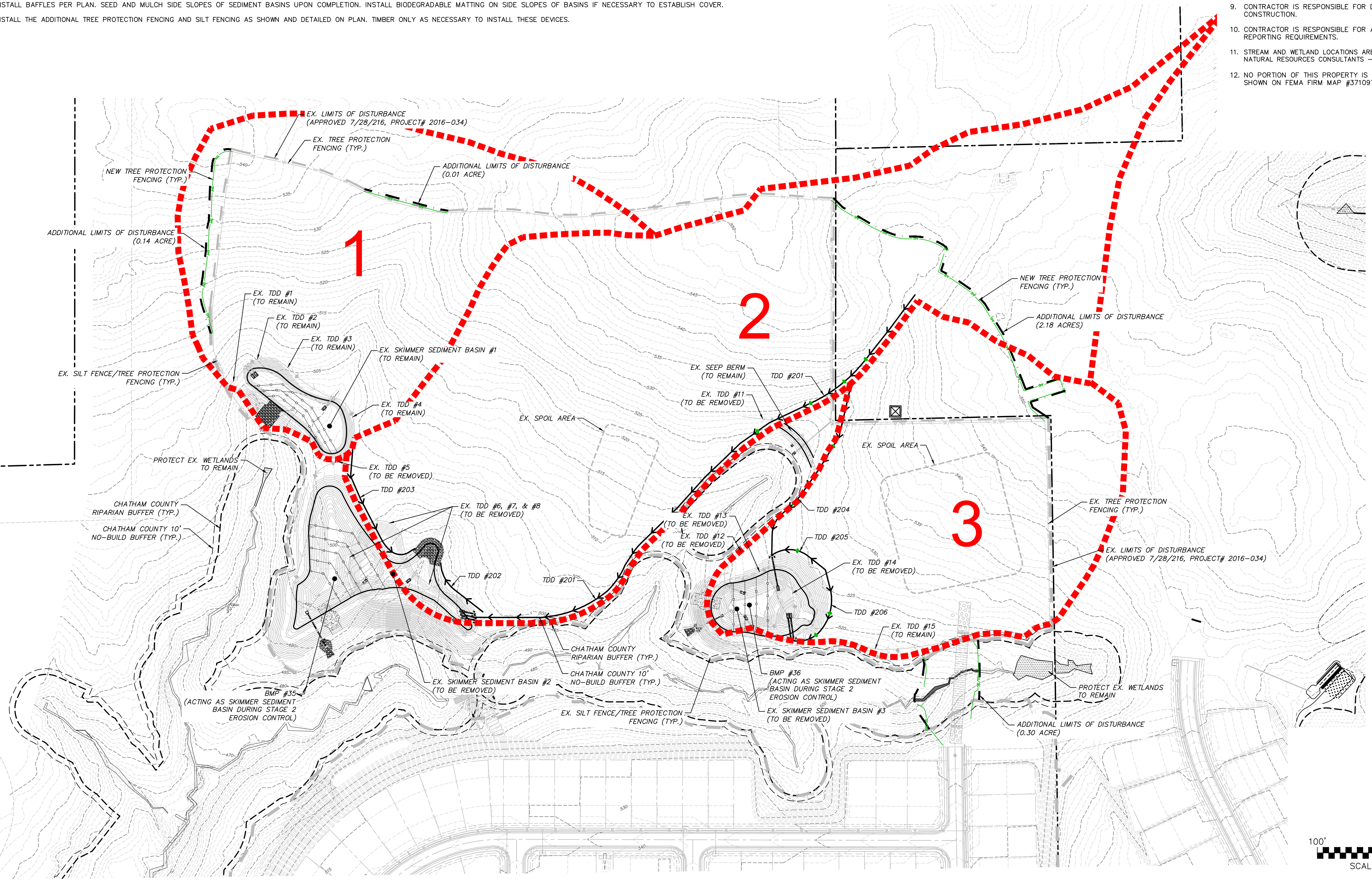
THE SEDIMENTATION POLLUTION CONTROL ACT WAS AMENDED IN 2006 TO REQUIRE THAT PERSONS RESPONSIBLE FOR LAND-DISTURBING ACTIVITIES INSPECT A PROJECT AFTER EACH STAGE OF THE PROJECT TO MAKE SURE THAT THE APPROVED EROSION AND SEDIMENTATION CONTROL PLAN IS BEING FOLLOWED. RULES DETAILING THE DOCUMENTATION OF THESE INSPECTIONS TOOK EFFECT OCTOBER 1, 2010. THE SELF-INSPECTION PROGRAM IS SEPARATE FROM THE WEEKLY SELF-MONITORING PROGRAM OF THE NPDES STORMWATER PERMIT FOR CONSTRUCTION ACTIVITIES. THE FOCUS OF THE SELF-INSPECTION REPORT IS THE INSTALLATION AND MAINTENANCE OF EROSION AND SEDIMENTATION CONTROL MEASURES ACCORDING TO THE APPROVED PLAN. THE INSPECTIONS MUST BE CONDUCTED AFTER EACH STAGE OF THE PROJECT, AND CONTINUED UNTIL PERMANENT GROUND COVER IS ESTABLISHED IN ACCORDANCE WITH NCGS 113A-54.1 AND 15A NCAC 48.0131. THE SELF-INSPECTION REPORT FORM IS AVAILABLE AS AN EXCEL SPREADSHEET FROM [HTTP://WWW.DLRENR.STATE.NC.US/PAGES/SEDIMENTATION_NEW.HTML](http://www.dlrenr.state.nc.us/pages/SEDIMENTATION_NEW.HTML). IF YOU HAVE QUESTIONS OR CANNOT ACCESS THE FORM, PLEASE CONTACT THIS OFFICE AT (919) 791-4200.

NPDES GROUND COVER STABILIZATION TIMEFRAMES

SITE AREA DESCRIPTION	STABILIZATION	TIMEFRAME EXCEPTIONS
PERIMETER DITCHES, SWALES, DITCHES, SLOPES	7 DAYS	NONE
HIGH QUALITY WATER (HOW) ZONES	7 DAYS	NONE
SLOPES STEEPER THAN 3:1	7 DAYS	14 DAYS FOR SLOPES 10' OR LESS IN LENGTH AND NOT STEEPER THAN 2:1
SLOPES 3:1 OR FLATTER	14 DAYS	7 DAYS FOR SLOPES GREATER THAN 50' IN LENGTH
ALL OTHER AREAS WITH SLOPES FLATTER THAN 4:1	14 DAYS	NONE, EXCEPT FOR PERIMETERS AND HOW ZONES

PHASE 16 NORTH DRAINAGE AREAS (STAGE 2)

DRAINAGE AREA NUMBER	TOTAL AREA WITHIN DRAINAGE AREA
1	6.43 ACRES
2	13.02 ACRES
3	5.96 ACRES



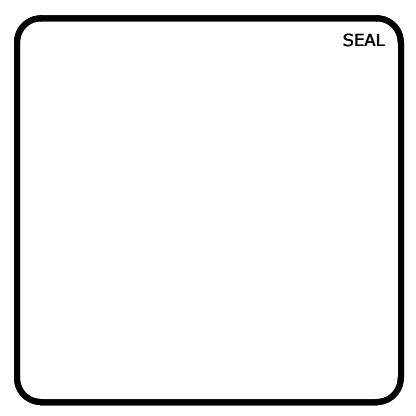
LEGEND:

- EXISTING WETLANDS
- EX. R/W LINE
- RIPARIAN BUFFER LINE
- COMBINATION SILT/TREE PROTECTION FENCING
- TREE PROTECTION FENCING
- EXISTING CONTOUR
- EX. LIMITS OF DISTURBANCE
- NEW LIMITS OF DISTURBANCE
- NEW DISTURBED AREA
- EX. DIVERSION DITCH
- NEW DIVERSION DITCH
- NEW CHECK DAM
- TEMPORARY CONSTRUCTION ENTRANCE
- SLOPE DRAIN
- TDD
- SILT FENCE OUTLET
- INLET PROTECTION
- DRAINAGE AREA DELINEATION
- DRAINAGE AREA

SCALE: 1"=100' (Horiz.)

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

REV. NO.	DESCRIPTIONS	DATE
2	REVISIONS PER CHATHAM COUNTY EROSION CONTROL	2018.04.24
1	REVISIONS PER CHATHAM COUNTY PUBLIC WORKS	2018.04.19
0	INITIAL SUBMITTAL	2018.03.21



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BRIAR CHAPEL™

by **Newland COMMUNITIES**

BRIAR CHAPEL BC PHASE 16 NORTH CHATHAM COUNTY, NORTH CAROLINA

STAGE 2

OVERALL GRADING, DRAINAGE AND EROSION CONTROL PLAN

DATE: MARCH 21, 2018	SCALE: HORIZONTAL: AS NOTED	RMC FILE NUMBER: C3.X
MCE PROJ. #: 02735-0206	VERTICAL: N/A	DRAWING NUMBER: C3.2
DRAWN: BSS		
DESIGNED: BSS		
CHECKED: GCA		
PROJ. MGR.: CHS		
STATUS: FOR REVIEW PURPOSES ONLY	FINAL DRAWINGS	REVISION: 2