

BRIAR CHAPEL

PHASE 13 SECTION 1 & 2

CONSTRUCTION DOCUMENTS

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

CHATHAM COUNTY, NORTH CAROLINA

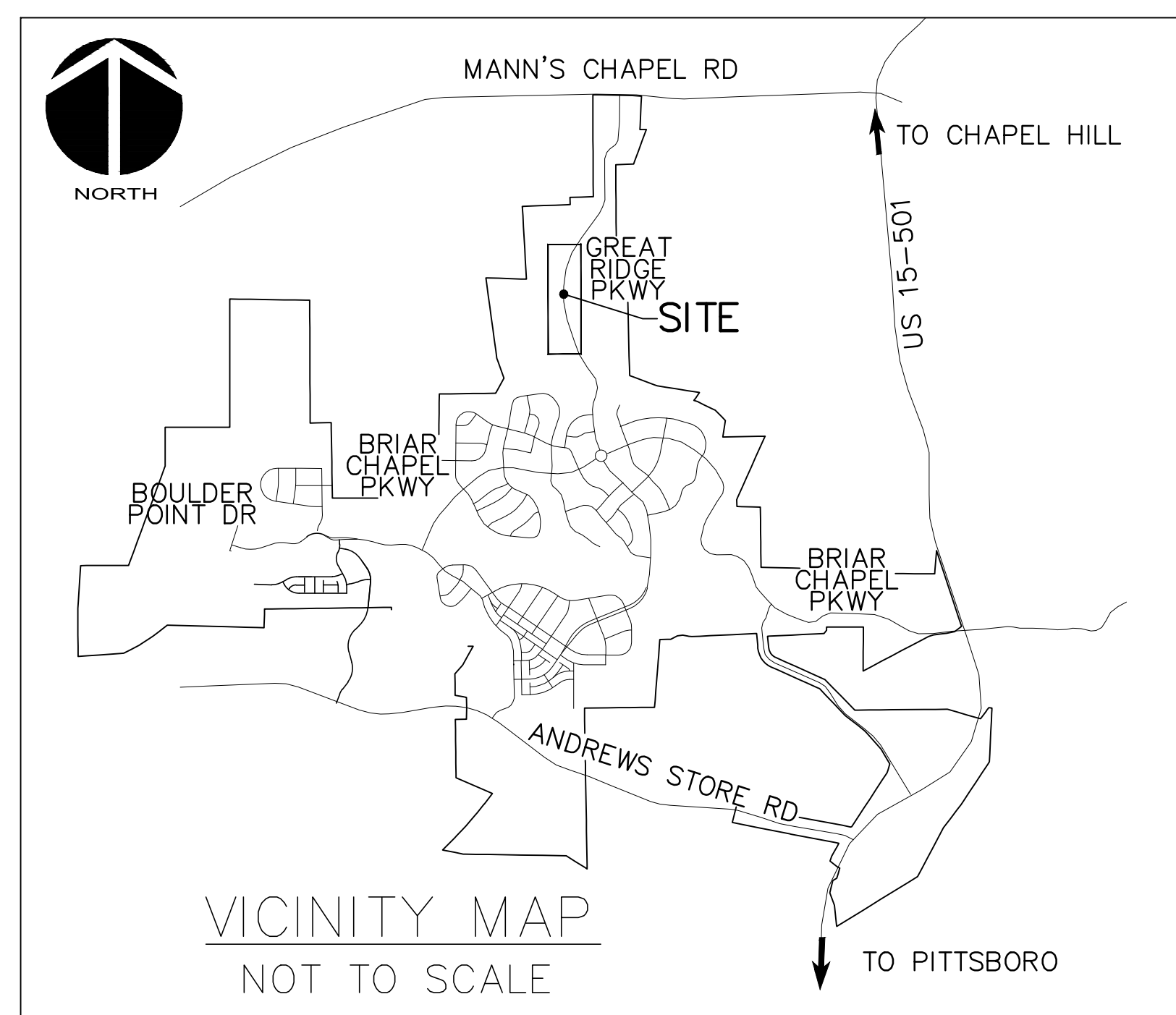
DATE: JULY 26, 2017
 REVISED: OCTOBER 9, 2017

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COUNTY AND AGENCY CONTACTS

- 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
- 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
- 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
- D. Chatham County
Public Works
964 East Street, 2nd Floor, Suite 205
Pittsboro, NC 27312
(919) 545-8530 phone
Contact: Larry Bridges
Email: larry.bridges@chathamnc.org
- E. NCDOT
Division 8, District 1
300 DOT Drive
P.O. Box 1164
Asheboro, NC 27204
(336) 318-4000 phone
Contact: Marty Tillman, PE
Email: mtillman@ncdot.gov
- F. NCDENR
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
- G. 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
- 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



VICINITY MAP

NTS

PROJECT DATA

NAME OF PROJECT:
 PHASE 13 SECTION 1 & 2
 CHATHAM COUNTY, NORTH CAROLINA

OWNER:
 NNP BRIAR CHAPEL, LLC
 1342 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: 11.03 ACRES

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



PRELIMINARY DRAWINGS
 FOR REVIEW PURPOSES ONLY

GENERAL NOTES:

- REFER TO THE FOLLOWING JOHN R. MCADAMS COMPANY, INC. CONSTRUCTION PLANS, AND ALL SUBSEQUENT CONSTRUCTION BULLETINS FOR INFORMATION ON EXISTING SITE INFRASTRUCTURE:
 - BRIAR CHAPEL - GREAT RIDGE PARKWAY NORTH AND WATERLINE EXTENSION SEALED JUNE 22, 2007
 - BRIAR CHAPEL - RECLAMATION FACILITY EROSION CONTROL PLAN SEALED JULY 29, 2005
 - BRIAR CHAPEL - PHASE 1 CONSTRUCTION PLANS SEALED OCTOBER 21, 2005
 - BRIAR CHAPEL - WEST EXTENSION GRADING PLAN (INTERIM) SEALED MARCH 1, 2007
 - BRIAR CHAPEL - PHASE 3 CONSTRUCTION PLANS SEALED DECEMBER 4, 2006
 - BRIAR CHAPEL - PHASE 4 CONSTRUCTION PLANS SEALED JANUARY 15, 2007
 - BRIAR CHAPEL - WATER QUALITY PONDS 5 AND 6 CONSTRUCTION PLANS SEALED AUGUST 24, 2006
 - BRIAR CHAPEL - PUMP STATION CONSTRUCTION PLANS DATED APRIL 3, 2006
 - BRIAR CHAPEL - PHASE 4 - POD D CONSTRUCTION PLANS SEALED SEPT. 17, 2007
 - BRIAR CHAPEL - PHASE 3 & 4 EROSION CONTROL PLANS SEALED JULY 26, 2007
 - BRIAR CHAPEL - PHASE 5 SOUTH SECTION 1 CONSTRUCTION PLANS SEALED NOVEMBER 9, 2009
 - BRIAR CHAPEL - PHASE 5 SOUTH SECTION 2 CONSTRUCTION PLANS SEALED OCTOBER 8, 2009
 - BRIAR CHAPEL - PHASE 6 NORTH SECTIONS 1 AND 2 CONSTRUCTION PLANS SEALED OCTOBER 8, 2012
- THIS PROPERTY IS ZONED CC-CUP.
- ALL DISTANCES SHOWN ARE HORIZONTAL GROUND MEASUREMENTS.
- BEARINGS SHOWN HEREON ARE BASED ON NC GRID NAD83. THIS PROJECT IS LOCALIZED ABOUT NCGS MONUMENT "MEACHAM" HAVING NC GRID COORDINATES N: 786,395.12', E: 1,963,424.93' USING A COMBINED FACTOR OF 0.99990676.
- EXISTING TOPOGRAPHIC DATA IS BASED ON AERIAL MAPPING PERFORMED BY AVIOMAGE MAPPING SERVICES IN FEBRUARY 2010. ELEVATIONS ARE BASED ON NAVD 88 NCGS MONUMENT "F-92" WITH AN ELEVATION OF 476.06'.
- HORIZONTAL AND VERTICAL CONTROL FOR THIS SITE WAS INSTALLED BY GPA PROFESSIONAL LAND SURVEYORS OF NC.
- PROJECT IS LOCATED IN THE CAPE FEAR RIVER BASIN.
- STREAM AND WETLAND LOCATIONS ARE BASED ON INFORMATION PROVIDED BY HUYSMAN AND BANDY, INC. - CONTACT CHRIS HUYSMAN AR 336-306-0906.
- NO PORTION OF THIS PROPERTY IS LOCATED IN SPECIAL FLOOD HAZARD AREA "AE" AS SHOWN ON FEMA FIRM MAPS #371097650J & #371097660J, DATED FEBRUARY 2, 2007.

DEMOLITION NOTES:

- 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.
- NO EARTH-DISTURBING ACTIVITY OR OTHER WORK SHALL TAKE PLACE WITHIN WETLAND AREAS NOTED ON SURVEY. 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.
- 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.
- 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.
- CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING THE PUBLIC DURING CONSTRUCTION, WHICH INCLUDES, BUT IS NOT LIMITED TO, CONSTRUCTION FENCING, BARRICADES, SIGNAGE, ETC.
- CONTRACTOR SHALL COMPLY TO THE FULLEST EXTENT WITH ALL REGULATIONS GOVERNING THE DEMOLITION, REMOVAL, TRANSPORTATION AND DISPOSAL OF ALL DEMOLITION DEBRIS.
- 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.
- CONTRACTOR SHALL TAKE SPECIAL CARE TO PROTECT ALL UTILITIES AND APPURTENANCES TO REMAIN.

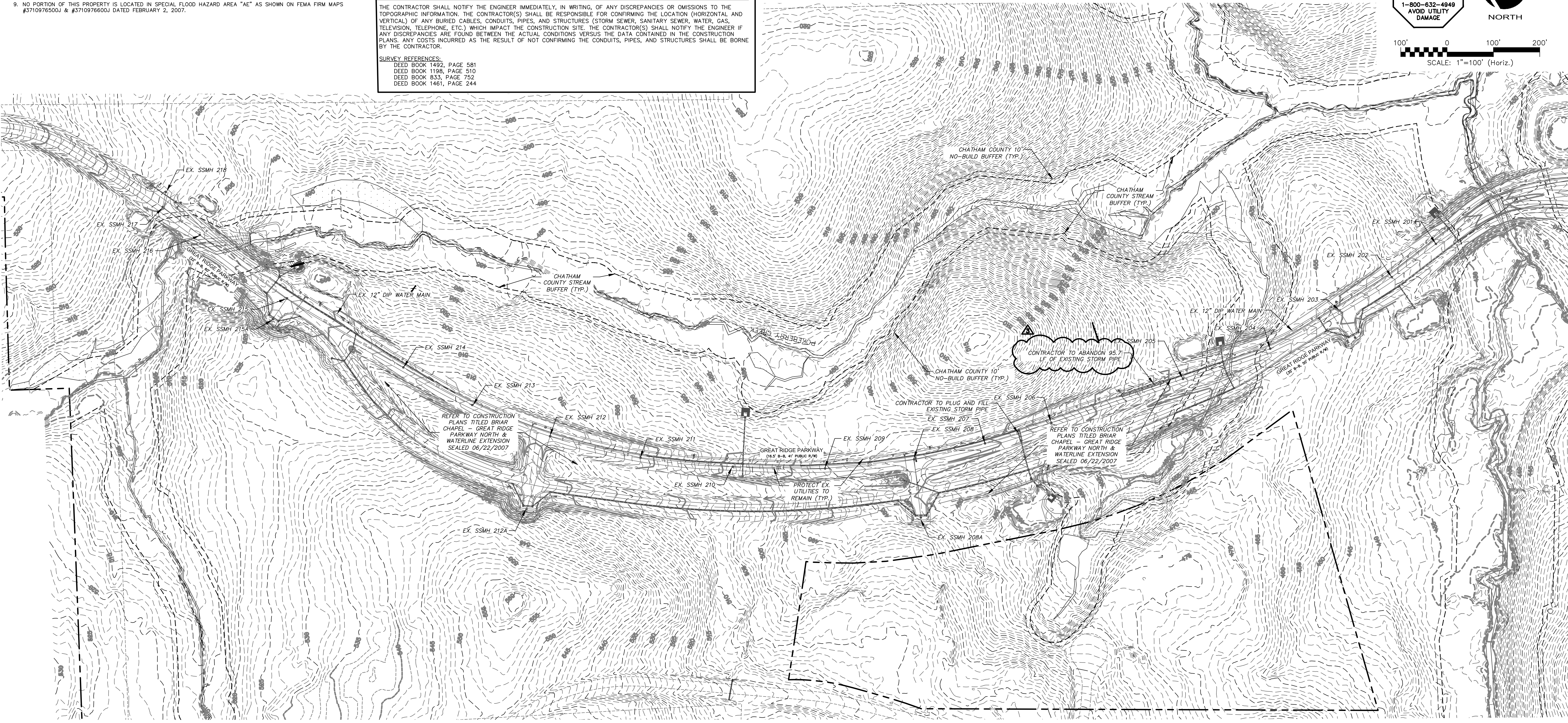
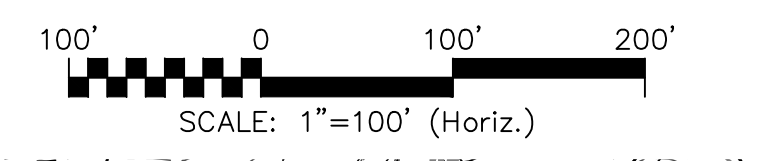
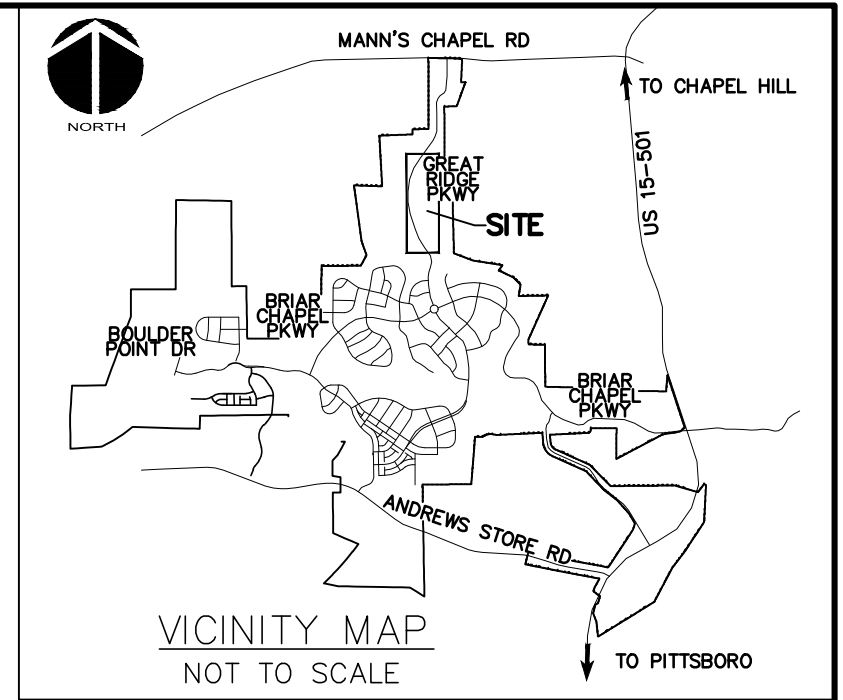
***** NOTICE TO CONTRACTOR *****

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.

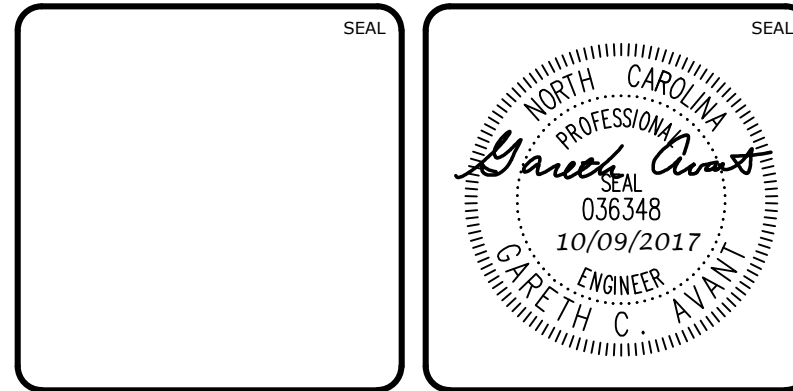
SURVEY REFERENCES:
 DEED BOOK 1492, PAGE 581
 DEED BOOK 1198, PAGE 510
 DEED BOOK 833, PAGE 752
 DEED BOOK 1461, PAGE 244

LEGEND:

- 10' NO BUILD BUFFER LINE
- RIPARIAN BUFFER LINE
- - - - - 480' EX. CONTOUR
- - - - - EX. POWER LINE EASEMENT
- 06 --- OVERHEAD POWER LINE
- - - - - EX. FORCE MAIN EASEMENT
- FM --- EX. SANITARY SEWER FORCE MAIN
- IRR --- EX. REUSE IRRIGATION MAIN
- W --- EX. WATER MAIN
- EX. STORM DRAINAGE PIPE
- SS ----- EX. SANITARY SEWER



REV. NO.	DESCRIPTIONS	DATE
3	REVISIONS PER COMMENTS RECEIVED FROM COUNTY EROSION CONTROL	2017.10.09
2	REVISIONS PER COMMENTS RECEIVED FROM NCDOT	2017.09.21
1	REVISIONS PER COMMENTS RECEIVED FROM COUNTY EROSION CONTROL	2017.09.13
0	SUBMITTAL TO AGENCIES	2017.07.26



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www.mckimcreed.com

BRIAR CHAPEL™
 by
Newland COMMUNITIES

**BRIAR CHAPEL
 PHASE 13 - SECTION 1 & 2
 CHATHAM COUNTY, NORTH CAROLINA
 OVERALL
 EXISTING CONDITIONS/
 DEMOLITION PLAN**

DATE: JULY 26, 2017	SCALE: C0.2	MSC FILE NUMBER: C0.2
MCE PROJ. # 02735-0198	HORIZONTAL: AS NOTED	DRAWING NUMBER: C0.2
DRAWN: BSS	VERTICAL: N/A	
DESIGNED: BSS		
CHECKED: GCA		
PROJ. MGR.: CHS		
STATUS: FOR REVIEW PURPOSES ONLY	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.
- REFER TO THE FOLLOWING JOHN R. MCADAMS COMPANY, INC. CONSTRUCTION PLANS, AND ALL SUBSEQUENT CONSTRUCTION BULLETINS FOR INFORMATION ON EXISTING SITE INFRASTRUCTURE:
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- 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 #3710976500J & #3710976600J DATED FEBRUARY 2, 2007.
- ALL PROPOSED ROADWAY DIMENSIONS AS SHOWN ARE MEASURED FROM BACK OF CURB TO BACK OF CURB, ALL PROPOSED ALLEY DIMENSIONS AS SHOWN ARE MEASURED FROM EDGE OF PAVEMENT TO EDGE OF PAVEMENT, UNLESS NOTED OTHERWISE.
- 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:
NMP BRIAR CHAPEL, LLC
1342 BRIAR CHAPEL PARKWAY
CHAPEL HILL, NC 27516
PHONE: (919) 951-0700
- SITE AKPAR #: 80418, 86285, & 2617

LEGEND:

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

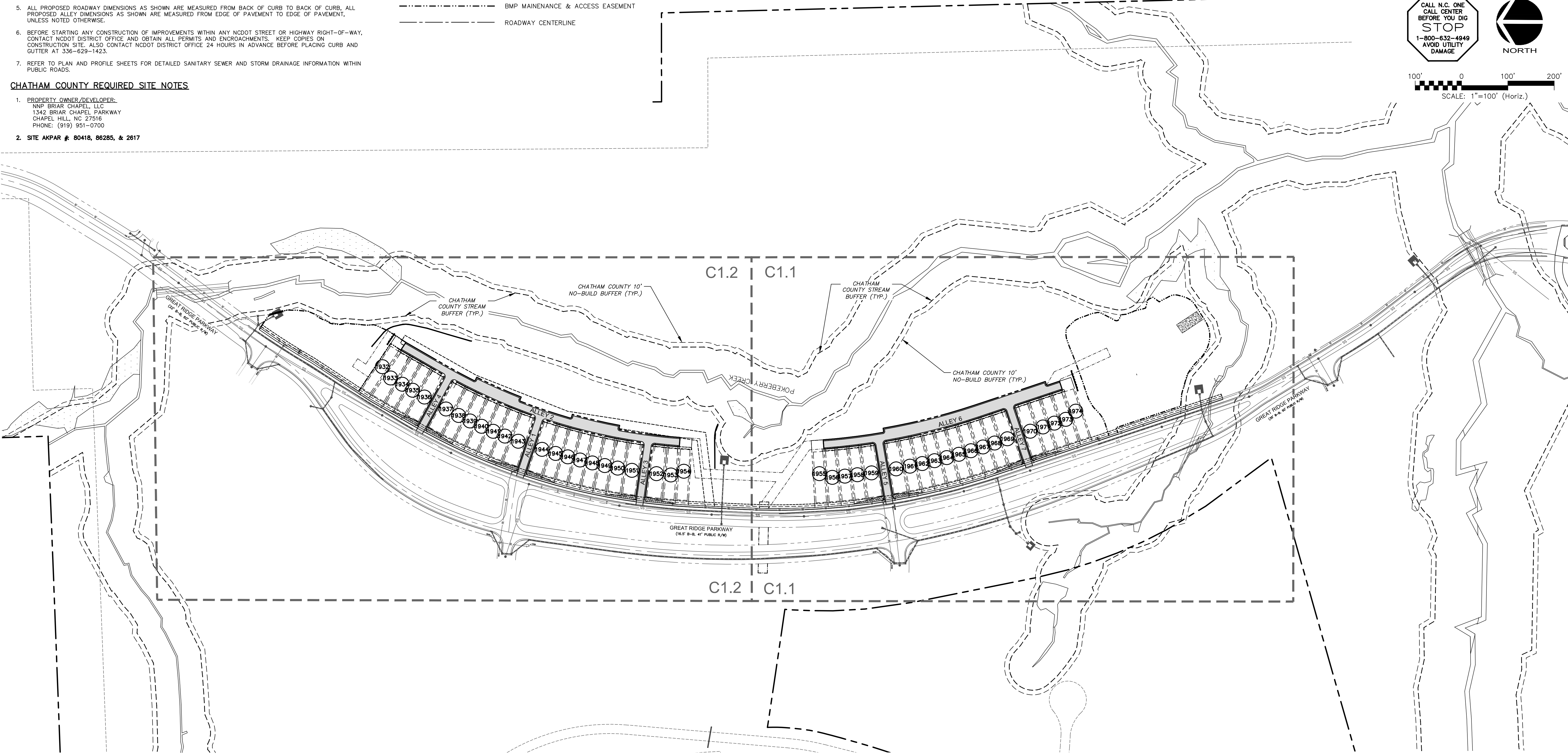
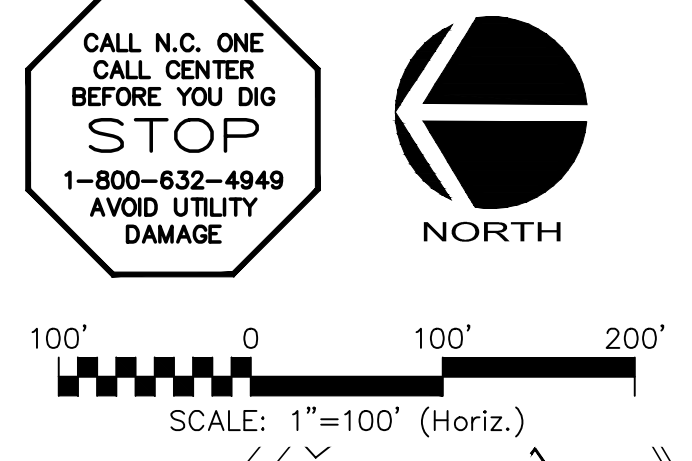
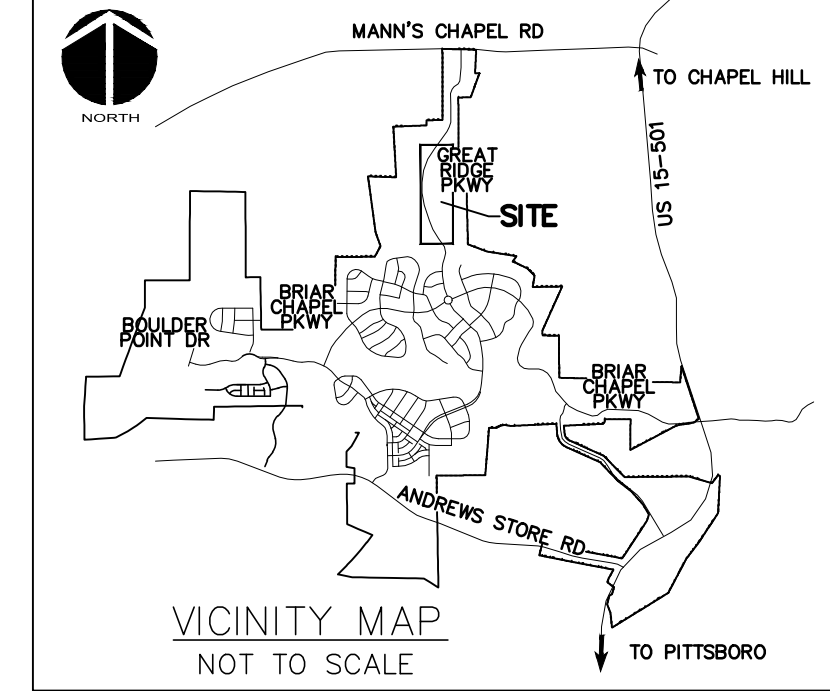
Lot Area Table		
Lot #	Area (SF)	Area (AC)
1932	3750.30	0.09
1933	3811.97	0.09
1934	3230.93	0.07
1935	3230.93	0.07
1936	4079.91	0.09
1937	4170.95	0.10
1938	3397.84	0.08
1939	3398.09	0.08
1940	3398.35	0.08

Lot Area Table		
Lot #	Area (SF)	Area (AC)
1941	3398.62	0.08
1942	3398.90	0.08
1943	4301.08	0.10
1944	4173.71	0.10
1945	3400.17	0.08
1946	3400.49	0.08
1947	3400.83	0.08
1948	3401.17	0.08
1949	3401.51	0.08

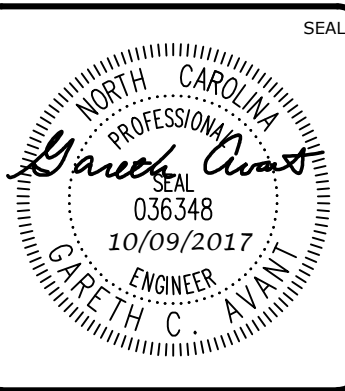
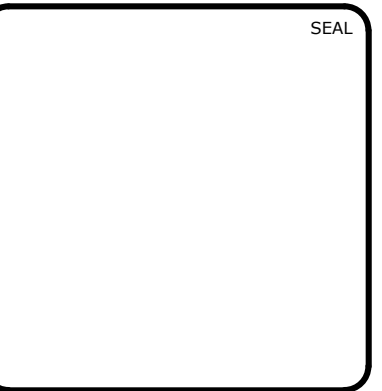
Lot Area Table		
Lot #	Area (SF)	Area (AC)
1950	3681.64	0.08
1951	4039.59	0.09
1952	4306.04	0.10
1953	3403.47	0.08
1954	3951.99	0.09
1955	3959.79	0.09
1956	3385.56	0.08
1957	3385.94	0.08
1958	3386.32	0.08

Lot Area Table		
Lot #	Area (SF)	Area (AC)
1959	4270.05	0.10
1960	4158.60	0.10
1961	3387.99	0.08
1962	3388.39	0.08
1963	3388.80	0.08
1964	3389.21	0.08
1965	3389.62	0.08
1966	3390.04	0.08
1967	3376.04	0.08

Lot Area Table		
Lot #	Area (SF)	Area (AC)
1968	3244.13	0.07
1969	3982.04	0.09
1970	3982.04	0.09
1971	3244.13	0.07
1972	3244.13	0.07
1973	3244.13	0.07
1974	3764.13	0.09



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 F-1222
www.mckimcreed.com

BRIAR CHAPEL™
 by
Newland COMMUNITIES

**BRIAR CHAPEL
 PHASE 13 - SECTION 1 & 2
 CHATHAM COUNTY, NORTH CAROLINA**

OVERALL SITE PLAN

DATE: JULY 26, 2017	SCALE: HORIZONTAL: AS NOTED VERTICAL: N/A	MSC FILE NUMBER: C1.X
MCE PROJ. #: 02735-0198		DRAWING NUMBER: C1.0
DRAWN: BSS		
DESIGNED: BSS		
CHECKED: GCA		
PROJ. MGR.: CHS		
STATUS: FOR REVIEW PURPOSES ONLY	REVISION: 3	

STAGE 1 CONSTRUCTION SEQUENCE:

1. 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.
2. ALL EROSION CONTROL MEASURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CHATHAM COUNTY SOIL EROSION AND SEDIMENTATION CONTROL ORDINANCE.
3. ALL EROSION CONTROL MEASURES SHALL BE INSPECTED WEEKLY AND WITHIN 24 HOURS OF EVERY 0.5" OR MORE RAINFALL EVENT. NEEDED REPAIRS SHALL BE MADE IMMEDIATELY.
4. 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.
5. CONTRACTOR SHALL ESTABLISH GROUNDCOVER 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.
6. CONTRACTOR SHALL ARRANGE PRE-CONSTRUCTION MEETING WITH THE OWNER'S REPRESENTATIVE, ENGINEER AND CHATHAM COUNTY.
7. OBTAIN LETTER OF PLAN APPROVAL FOR SEDIMENTATION AND EROSION CONTROL FROM CHATHAM COUNTY SOIL EROSION & SEDIMENTATION CONTROL.
8. CONTRACTOR TO POST EROSION CONTROL PERMIT PROMINENTLY ON SITE AT ALL TIMES.
9. 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.

STAGE 1 CONSTRUCTION SEQUENCE (CONT.):

10. CONTRACTOR TO HAVE A PROFESSIONAL LAND SURVEYOR FLAG PROPERTY LINES, EASEMENTS, LANDSCAPE BUFFERS, STREAM BUFFERS, TREE PROTECTION AREAS AND LIMITS OF DISTURBANCE.
11. CONTRACTOR TO ENSURE THAT EXISTING EROSION CONTROL DEVICES ARE IN WORKING ORDER AND FUNCTIONING AS INTENDED IN PARTICULAR EXISTING INLET PROTECTION DEVICES ALONG GREAT RIDGE PARKWAY. IF NOT, CONTRACTOR IS TO TAKE MEASURES TO RESTORE EXISTING NON-FUNCTIONING EROSION CONTROL DEVICES.
12. INSTALL TREE PROTECTION FENCING AND SILT FENCING AS SHOWN AND DETAILED ON PLAN. TIMBER ONLY AS NECESSARY TO INSTALL THESE DEVICES.
13. CONSTRUCT TEMPORARY SKIMMER SEDIMENT BASINS & TEMPORARY SEDIMENT TRAP TO THE REQUIRED DIMENSIONS AND ELEVATIONS AS DETAILED IN THESE PLANS. PERMANENT RISER STRUCTURES SHALL BE INSTALLED IN SKIMMER BASINS #2 (BMP #33) & #4 (BMP #34) PER THE DETAILS AS SHOWN IN SHEETS D4.1-D4.4 AND SKIMMERS SHALL BE ATTACHED ACCORDINGLY. GRUB ONLY AS NECESSARY TO INSTALL THE BASINS. MATERIAL EXCAVATED DURING THE CONSTRUCTION OF SKIMMER 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.
14. INSTALL BAFFLES PER PLAN. SEED AND MULCH SIDE SLOPES OF SKIMMER BASINS UPON COMPLETION. INSTALL BIODEGRADABLE MATTING ON SIDE SLOPES OF BASINS IF NECESSARY TO ESTABLISH COVER.
15. CONSTRUCT TEMPORARY DIVERSION DITCHES 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.
15. CONTACT CHATHAM COUNTY SOIL EROSION & SEDIMENTATION AT 919-548-6643 AND ENGINEER UPON COMPLETION OF INITIAL EROSION CONTROL MEASURES.
16. ONCE TEMPORARY SKIMMER SEDIMENT BASINS AND DIVERSION DITCHES HAVE BEEN INSTALLED, GRUB WITHIN DELINEATED DRAINAGE AREAS ASSOCIATED WITH THE INSTALLED TEMPORARY SKIMMER SEDIMENT BASINS.

STAGE 1 CONSTRUCTION SEQUENCE (CONT.):

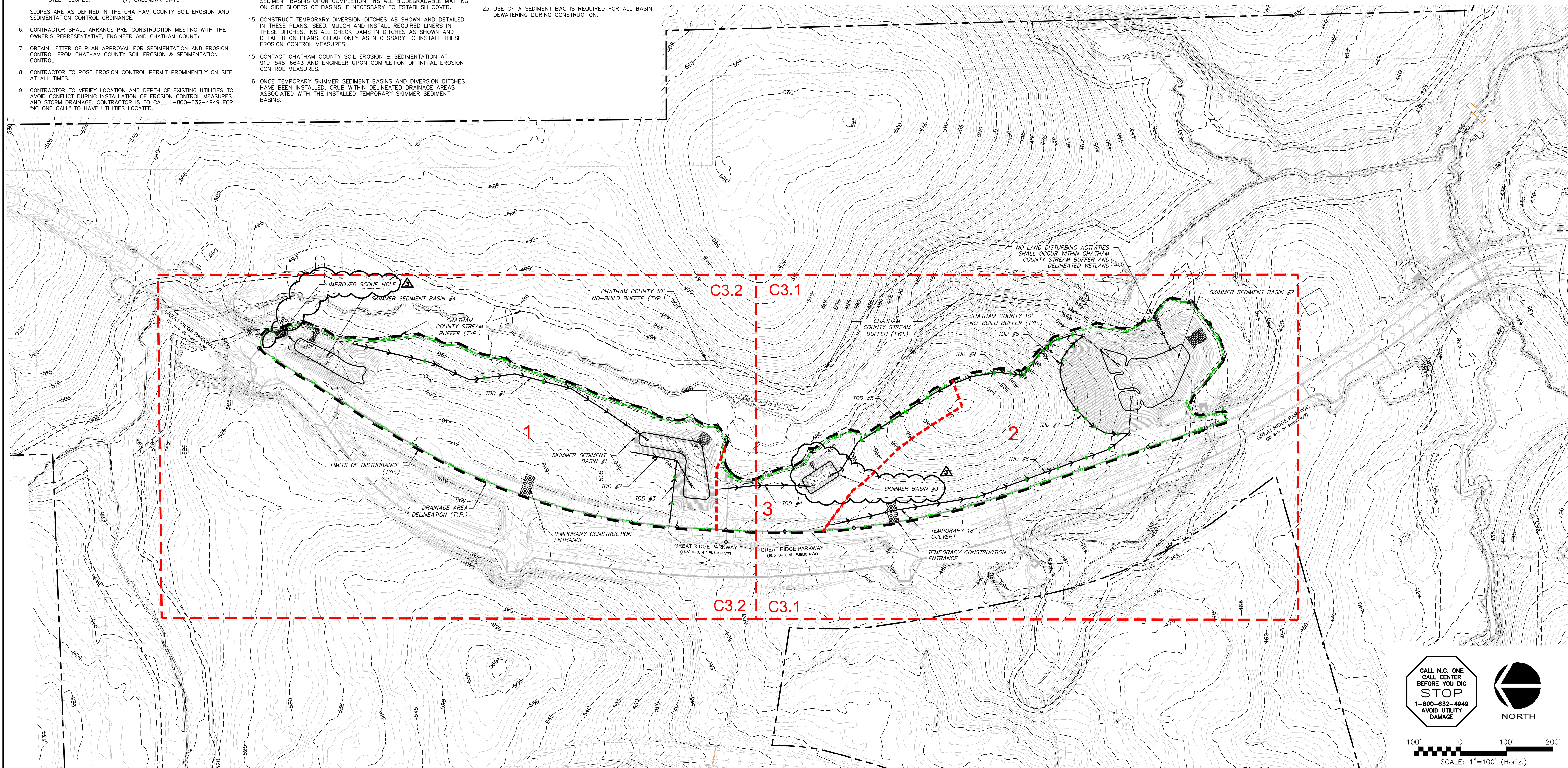
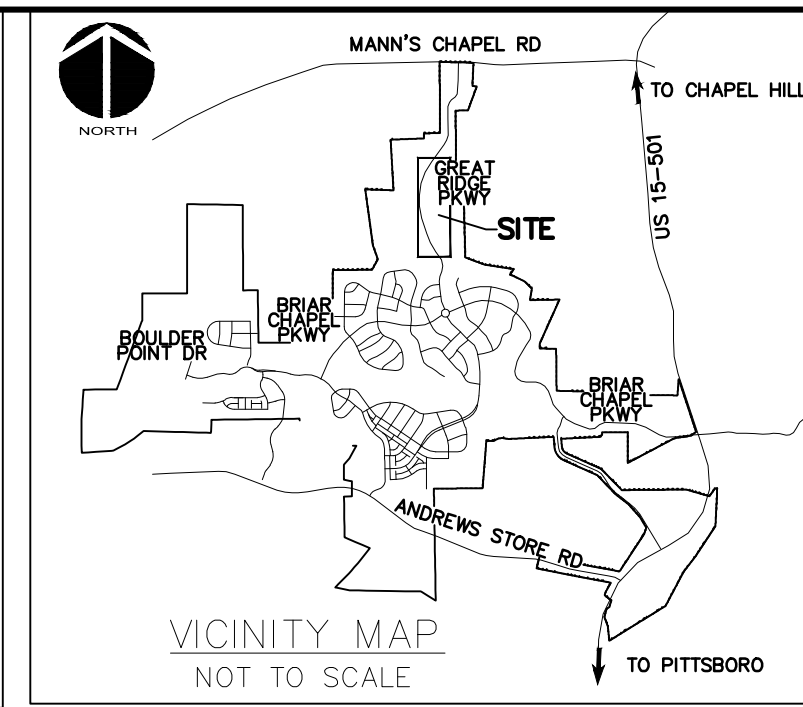
17. CONTRACTOR SHALL STRIP TOPSOIL AND STORE AT DESIGNATED LOCATION. PROVIDE SILT FENCE AROUND PERIMETER OF SLOPE OF ANY STOCKPILE AREAS. CONTRACTOR SHALL REMOVE ALL ROOT MATTER AND ORGANICS FROM WITHIN THE CLEARING LIMITS.
18. AFTER COMPLETION OF CLEARING AND GRUBBING, THE SITE SHALL BE TEMPORARILY STABILIZED EXCEPT IN AREAS OF ACTIVE CUT/FILL. ACTIVE AREAS SHOULD NOT EXCEED 25 ACRES AT ONE TIME.
19. BEGIN ROUGH GRADING WITHIN CLEARING LIMITS. MATERIAL EXCAVATED DURING THE CONSTRUCTION OF SKIMMER 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.
20. 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.
21. PERFORM SEEDING AND MULCHING AS REQUIRED IN ACCORDANCE WITH THE PLANS.
22. ONCE GROUNDCOVER 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.
23. USE OF A SEDIMENT BAG IS REQUIRED FOR ALL BASIN DEWATERING DURING CONSTRUCTION.

LIMITS OF DISTURBANCE NOTES:

1. 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.
2. 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.
3. TOTAL DISTURBED AREA: 11.03 ACRES.

LEGEND:

	TEMPORARY CONSTRUCTION ENTRANCE		TEMPORARY DIVERSION DITCH
	RIPRAP OUTLET PROTECTION		LIMITS OF DISTURBANCE
	100-YEAR FLOODPLAIN		SEDIMENT BASIN BAFFLE
	EXISTING WETLANDS		ARC PIPE INLET PROTECTION
	EX. COMBINATION SILT/TREE PROTECTION FENCE		DIVERSION CHECK DAM
	EX. TEMPORARY DIVERSION DITCH		SLOPE DRAIN
	EXISTING CONTOUR		TEMPORARY DIVERSION DITCH
	EX. LIMITS OF DISTURBANCE		CLEAN WATER DIVERSION DITCH
	COMBINATION SILT/TREE PROTECTION FENCE		SILT FENCE OUTLET
			DRAINAGE AREA
			DRAINAGE AREA DELINEATION



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NORTH

SCALE: 1"=100' (Horiz.)

REV. NO.	DESCRIPTION	DATE
3	REVISIONS PER COMMENTS RECEIVED FROM COUNTY EROSION CONTROL	2017.10.09
2	REVISIONS PER COMMENTS RECEIVED FROM NCDOT	2017.09.21
1	REVISIONS PER COMMENTS RECEIVED FROM COUNTY EROSION CONTROL	2017.09.13
0	SUBMITTAL TO AGENCIES	2017.07.26

SEAL

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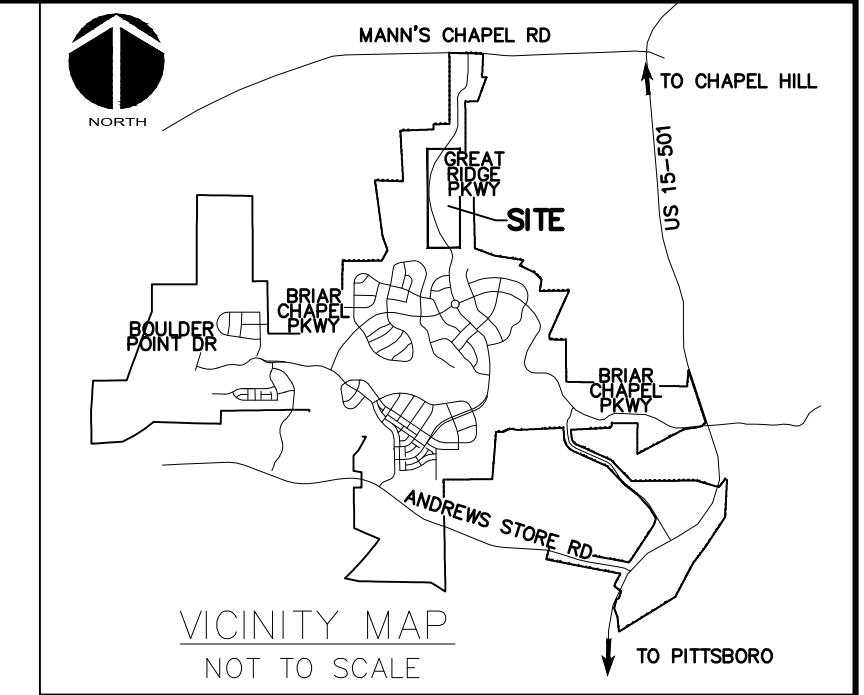
**BRIAR CHAPEL
PHASE 13 - SECTION 1 & 2
CHATHAM COUNTY, NORTH CAROLINA
OVERALL STAGE 1
GRADING, DRAINAGE & EROSION
CONTROL PLAN**

DATE:	JULY 26, 2017	SCALE:	AS NOTED
MCE PROJ. #	02735-0198	HORIZONTAL:	N/A
DRAWN:	BSS	VERTICAL:	N/A
DESIGNED:	BSS	REVISION:	3
CHECKED:	GCA	FOR REVIEW PURPOSES ONLY	
PROJ. MGR.	CHS		

NPDES GROUNDCOVER STABILIZATION TIMEFRAMES		
SITE AREA DESCRIPTION	STABILIZATION	TIMEFRAME EXCEPTIONS
PERIMETER DIKES, SWALES, DITCHES, SLOPES	7 DAYS	NONE
HIGH QUALITY WATER (HQW) 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 HQW ZONES

EROSION CONTROL NOTES:

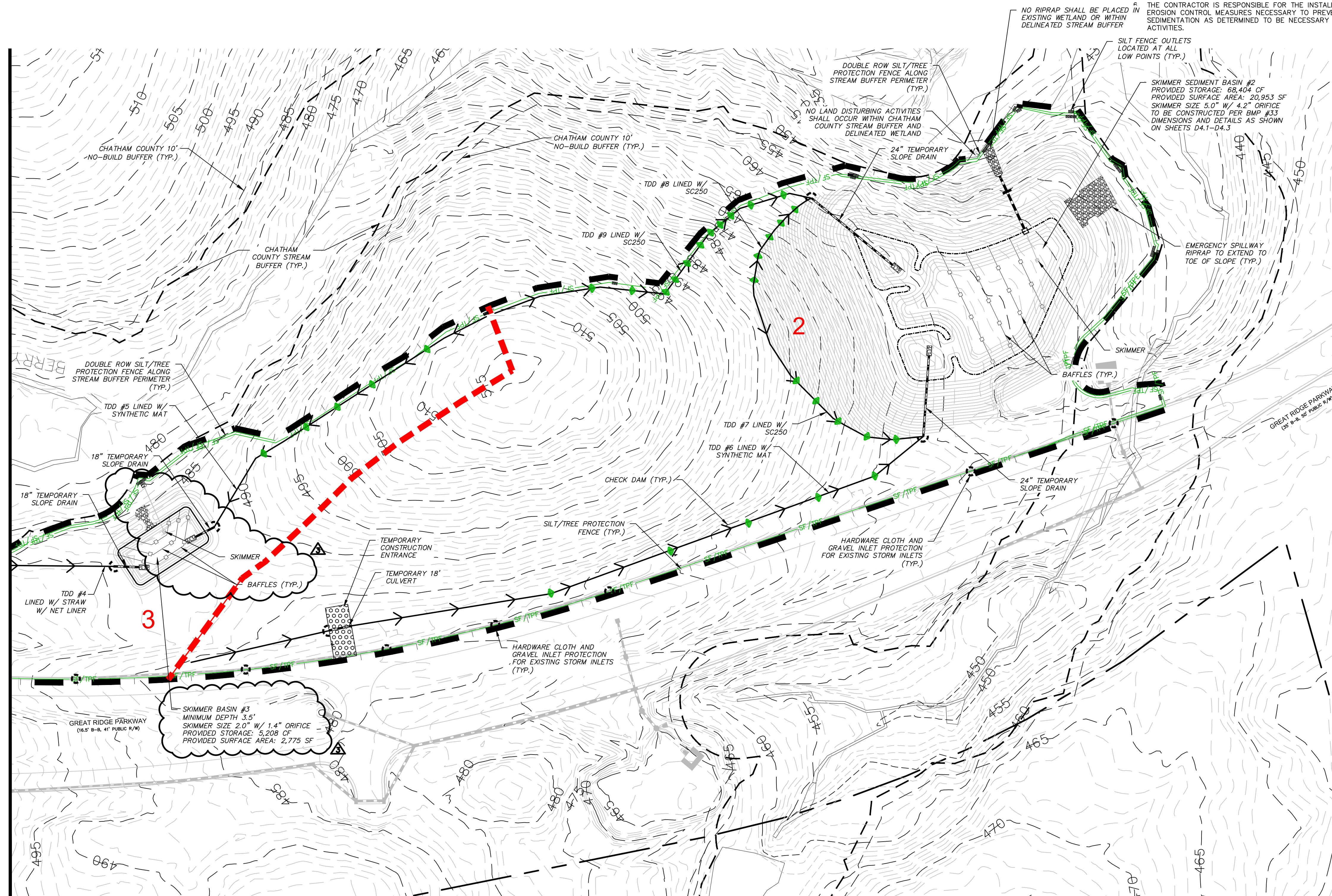
- PRIOR TO BEGINNING CONSTRUCTION, AN ON SITE PRE-CONSTRUCTION MEETING SHALL BE HELD. CHATHAM COUNTY OFFICIALS, THE ENGINEER, OWNER'S REPRESENTATIVE AND CONTRACTOR MUST ATTEND. NOTICE MUST BE GIVEN 48 HOURS NOTICE PRIOR TO SCHEDULING.
- ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE CONSTRUCTED AND MAINTAINED ACCORDING TO MINIMUM STANDARDS AND SPECIFICATIONS OF THE NORTH CAROLINA EROSION AND SEDIMENT CONTROL MANUAL.
- ALL DISTURBED AREAS ARE TO DRAIN TO APPROVED SEDIMENT CONTROL MEASURES AT ALL TIMES DURING LAND DISTURBING ACTIVITIES AND DURING SITE DEVELOPMENT UNTIL FINAL STABILIZATION IS ACHIEVED.
- PERMANENT OR TEMPORARY SOIL STABILIZATION SHALL BE APPLIED TO DENUDED AREAS WITHIN SEVEN DAYS AFTER FINAL GRADE IS REACHED ON ANY PORTION OF THE SITE. TEMPORARY SOIL STABILIZATION SHALL BE APPLIED WITHIN SEVEN DAYS, UNLESS OTHERWISE NOTED IN STABILIZATION TIMEFRAME CHART, TO DENUDED AREAS THAT MAY NOT BE AT FINAL GRADE BUT WILL REMAIN DORMANT (UNDISTURBED) FOR LONGER THAN 14 DAYS. PERMANENT STABILIZATION SHALL BE APPLIED WITHIN 14 DAYS TO AREAS THAT ARE LEFT TO BE DORMANT FOR MORE THAN ONE YEAR.
- THE CONTRACTOR SHALL INSPECT ALL EROSION CONTROL MEASURES PERIODICALLY AND AFTER EACH RUNOFF PRODUCING RAINFALL EVENT EXCEEDING 1/8 INCH. ANY NECESSARY REPAIRS OR CLEANUP TO MAINTAIN THE EFFECTIVENESS OF THE EROSION CONTROL DEVICES SHALL BE MADE IMMEDIATELY. ANY MEASURE THAT FAILS TO FUNCTION AS INTENDED SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE ENGINEER OR OWNER'S REPRESENTATIVE.
- THE CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED TO BE NECESSARY DURING CONSTRUCTION ACTIVITIES.



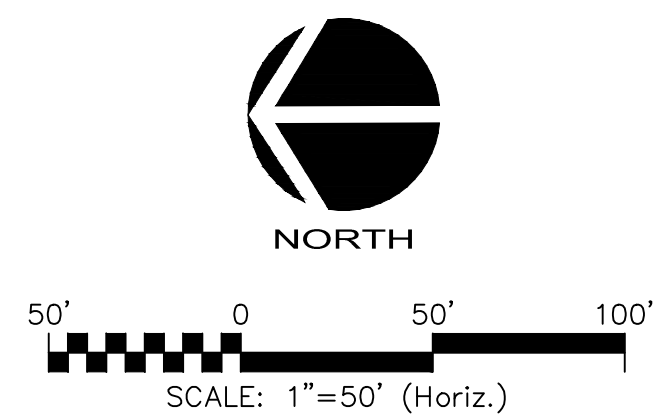
LEGEND:

	TEMPORARY CONSTRUCTION ENTRANCE
	RIPRAP OUTLET PROTECTION
	100-YEAR FLOODPLAIN
	EXISTING WETLANDS
	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
	ARC PIPE INLET PROTECTION
	DIVERSION CHECK DAM
	SLOPE DRAIN
	TEMPORARY DIVERSION DITCH
	CLEAN WATER DIVERSION DITCH
	SILT FENCE OUTLET
	DRAINAGE AREA
	DRAINAGE AREA DELINEATION
	HARDWARE CLOTH & GRAVEL INLET PROTECTION

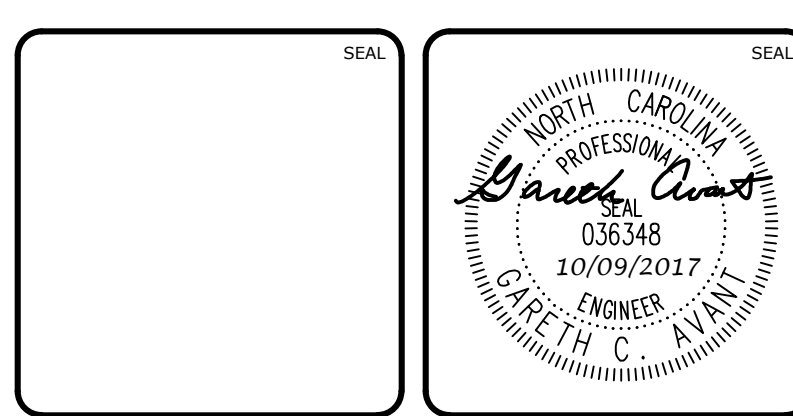
MATCHLINE - SEE SHEET C3.2



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REV. NO.	DESCRIPTIONS	DATE
3	REVISIONS PER COMMENTS RECEIVED FROM COUNTY EROSION CONTROL	2017.10.09
2	REVISIONS PER COMMENTS RECEIVED FROM MCDOT	2017.09.21
1	REVISIONS PER COMMENTS RECEIVED FROM COUNTY EROSION CONTROL	2017.09.13
0	SUBMITTAL TO AGENCIES	2017.07.26

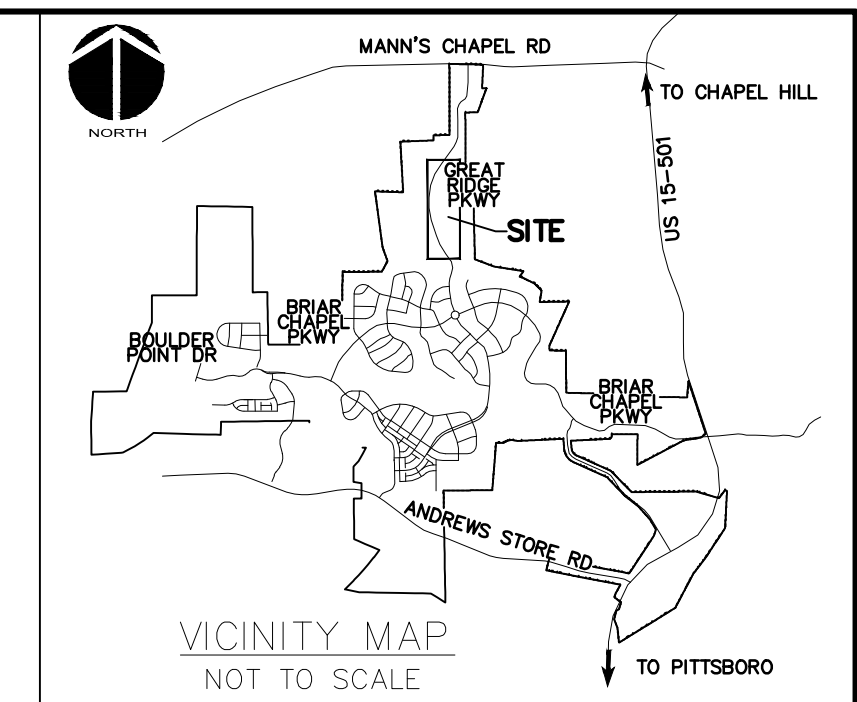


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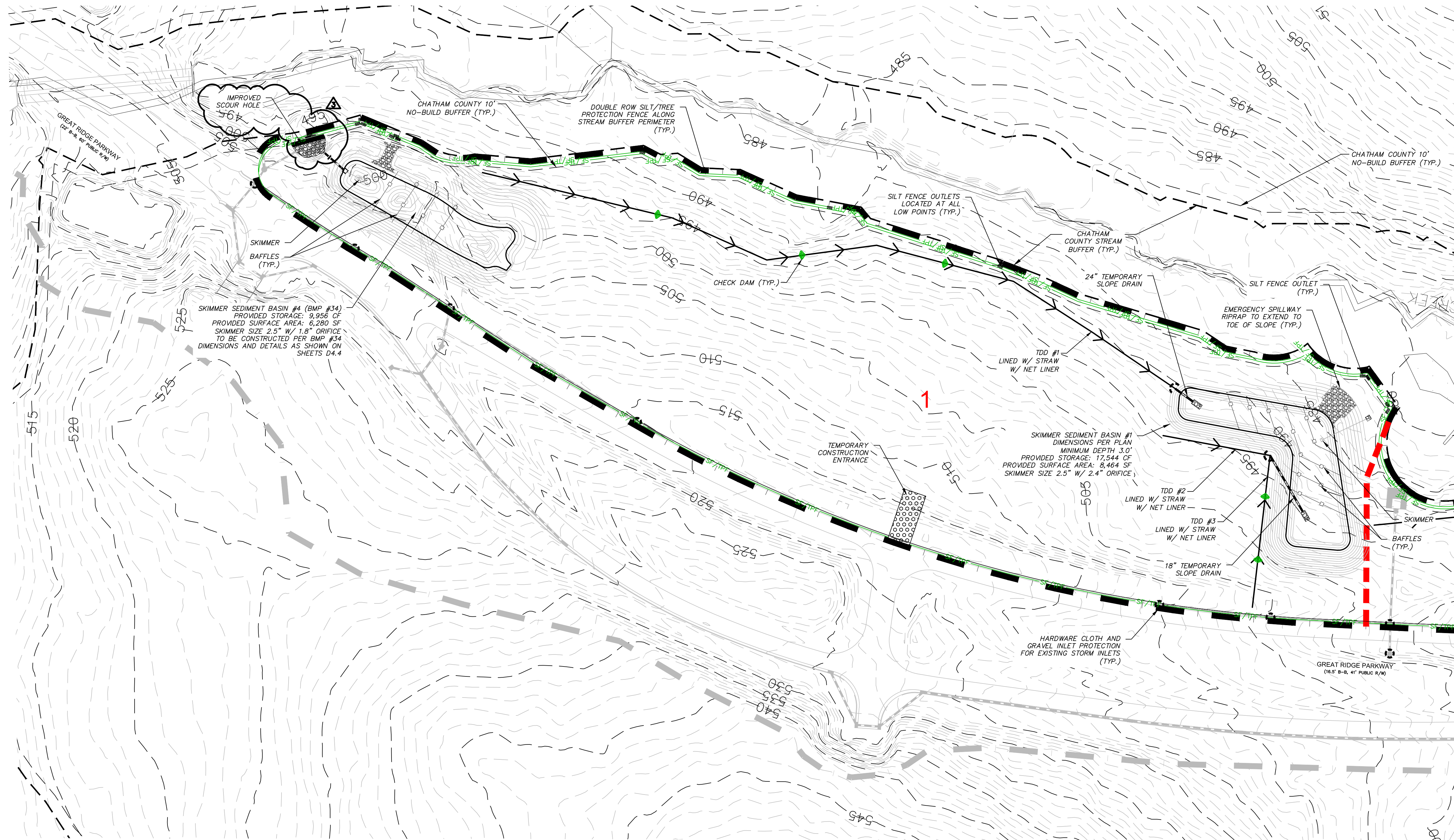
**BRIAR CHAPEL
PHASE 13 - SECTION 1 & 2
CHATHAM COUNTY, NORTH CAROLINA
STAGE 1
GRADING, DRAINAGE & EROSION
CONTROL PLAN**

DATE:	JULY 26, 2017	SCALE:	1" = 50'	MISC FILE NUMBER:	C3.X
MCE PROJ. #	02735-0198	HORIZONTAL:	1" = 50'	DRAWING NUMBER:	C3.1
DRAWN:	BSS	VERTICAL:	N/A		
DESIGNED:	BSS				
CHECKED:	GCA				
PROJ. MGR.:	CHS				
STATUS:	FOR REVIEW PURPOSES ONLY				
				REVISION	3

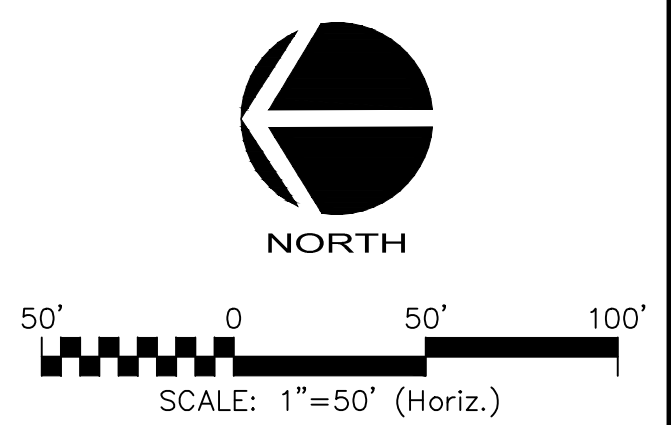


LEGEND:

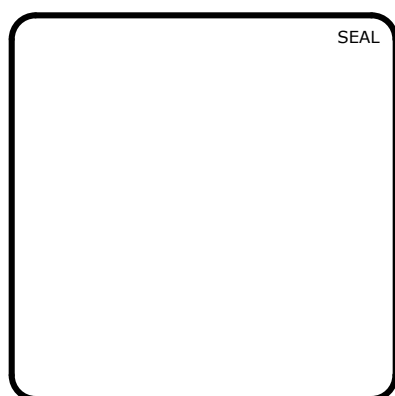
	TEMPORARY CONSTRUCTION ENTRANCE
	RIPRAP OUTLET PROTECTION
	100-YEAR FLOODPLAIN
	EXISTING WETLANDS
	EX. COMBINATION SILT/TREE PROTECTION FENCE
	EX. TEMPORARY DIVERSION DITCH
	EXISTING CONTOUR
	EX. LIMITS OF DISTURBANCE
	COMBINATION SILT/TREE PROTECTION FENCE
	TEMPORARY DIVERSION DITCH
	LIMITS OF DISTURBANCE
	SEDIMENT BASIN BAFFLE
	ARC PIPE INLET PROTECTION
	DIVERSION CHECK DAM
	SLOPE DRAIN
	TEMPORARY DIVERSION DITCH
	CLEAN WATER DIVERSION DITCH
	SILT FENCE OUTLET
	DRAINAGE AREA
	DRAINAGE AREA DELINEATION
	HARDWARE CLOTH & GRAVEL INLET PROTECTION



MATCHLINE - SEE SHEET C3.1



REV. NO.	DESCRIPTIONS REVISIONS	DATE
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**BRIAR CHAPEL
 PHASE 13 - SECTION 1 & 2
 CHATHAM COUNTY, NORTH CAROLINA
 STAGE 1
 GRADING, DRAINAGE & EROSION
 CONTROL PLAN**

DATE: JULY 26, 2017	SCALE: 1" = 50'	MSC FILE NUMBER: C3.X
MCE PROJ. # 02735-0198	HORIZONTAL: 1" = 50'	DRAWING NUMBER: C3.2
DRAWN: BSS	VERTICAL: N/A	
DESIGNED: BSS		
CHECKED: GCA		
PROJ. MGR.: CHS		
STATUS: FOR REVIEW PURPOSES ONLY	REVISION: 3	

GENERAL NOTES:

1. 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.
2. 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".
3. 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.
4. PRIOR TO CONSTRUCTION, CONTRACTOR SHALL ARRANGE AND ATTEND A PRECONSTRUCTION CONFERENCE WITH CHATHAM COUNTY, OWNER AND ENGINEER.

GENERAL NOTES (CON'T):

5. EXISTING UTILITIES AND STRUCTURES SHOWN, BOTH UNDERGROUND AND ABOVE GROUND, ARE BASED ON BEST AVAILABLE RECORD DRAWINGS.
6. SOIL UNDER 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.
7. 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.
8. CONTRACTOR IS RESPONSIBLE FOR PROTECTION OF ALL PROPERTY CORNERS AND SHALL REPLACE ALL MARKERS REMOVED IF DAMAGED DURING CONSTRUCTION.

GENERAL NOTES (CON'T):

9. CONTRACTOR IS RESPONSIBLE FOR ALL DEWATERING AS NECESSARY THROUGHOUT CONSTRUCTION. USE OF SEDIMENT BAG IS REQUIRED FOR ALL BASIN DEWATERING.
10. CONTRACTOR IS RESPONSIBLE FOR ADHERING TO ALL PERMIT CONDITIONS, MONITORING AND REPORTING REQUIREMENTS.
11. REFER TO SHEET D2.1 FOR PROPOSED ROAD CROSS SECTION DETAILS AND PAVEMENT SCHEDULE.
12. GRADED SLOPES STEEPER THAN 3:1 SHALL BE STABILIZED WITH CURLEX SINGLE NET (CUREX I) MATTING BY AMERICAN EXCELSIOR COMPANY OR APPROVED EQUAL.
13. STREAM AND WETLAND LOCATIONS ARE BASED ON DELINEATIONS PROVIDED BY SOIL AND ENVIRONMENTAL CONSULTANTS IN RALEIGH, NC - CONTACT SEAN CLARK AT 919-846-5900.
14. NO PORTION OF THIS PROPERTY IS LOCATED IN SPECIAL FLOOD HAZARD AREA "AE" AS SHOWN ON FEMA FIRM MAP #3710976500J DATED FEBRUARY 2, 2007.

GENERAL NOTES (CON'T):

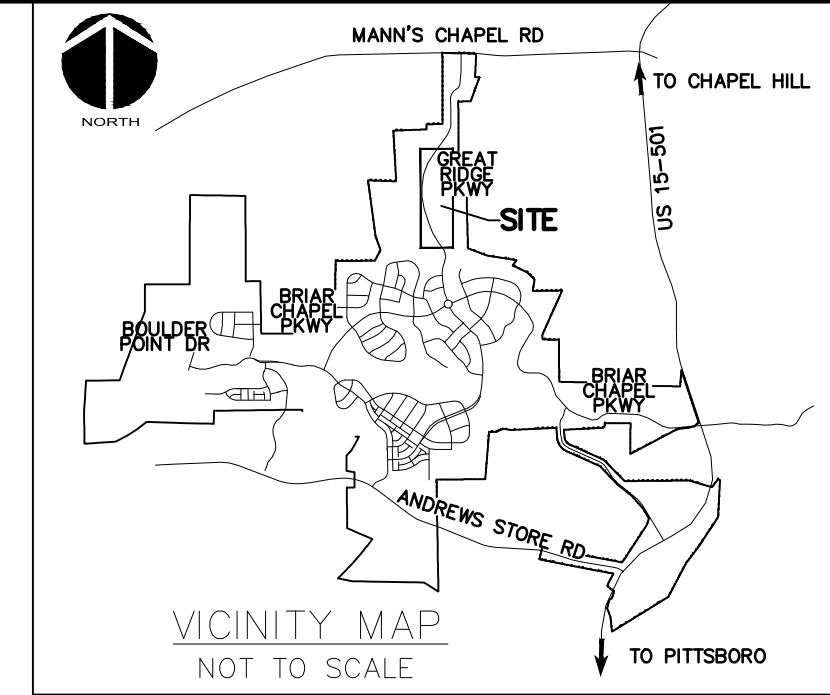
16. BEFORE STARTING ANY CONSTRUCTION OF IMPROVEMENTS WITHIN ANY NCDOT STREET OR HIGHWAY RIGHT-OF-WAY, CONTACT NCDOT DISTRICT OFFICE AND OBTAIN ALL PERMITS AND ENCROACHMENTS AND KEEP COPIES ON CONSTRUCTION SITE AT ALL TIMES. ALSO CONTACT NCDOT DISTRICT OFFICE 24 HOURS IN ADVANCE BEFORE PLACING CURB AND GUTTER AT (336) 629-1423.

LIMITS OF DISTURBANCE NOTES:

1. 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.
2. LIMITS OF DISTURBANCE: 11.03 ACRES

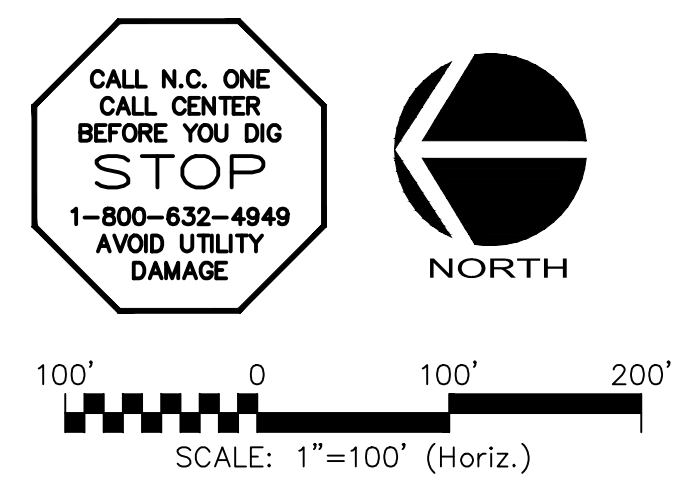
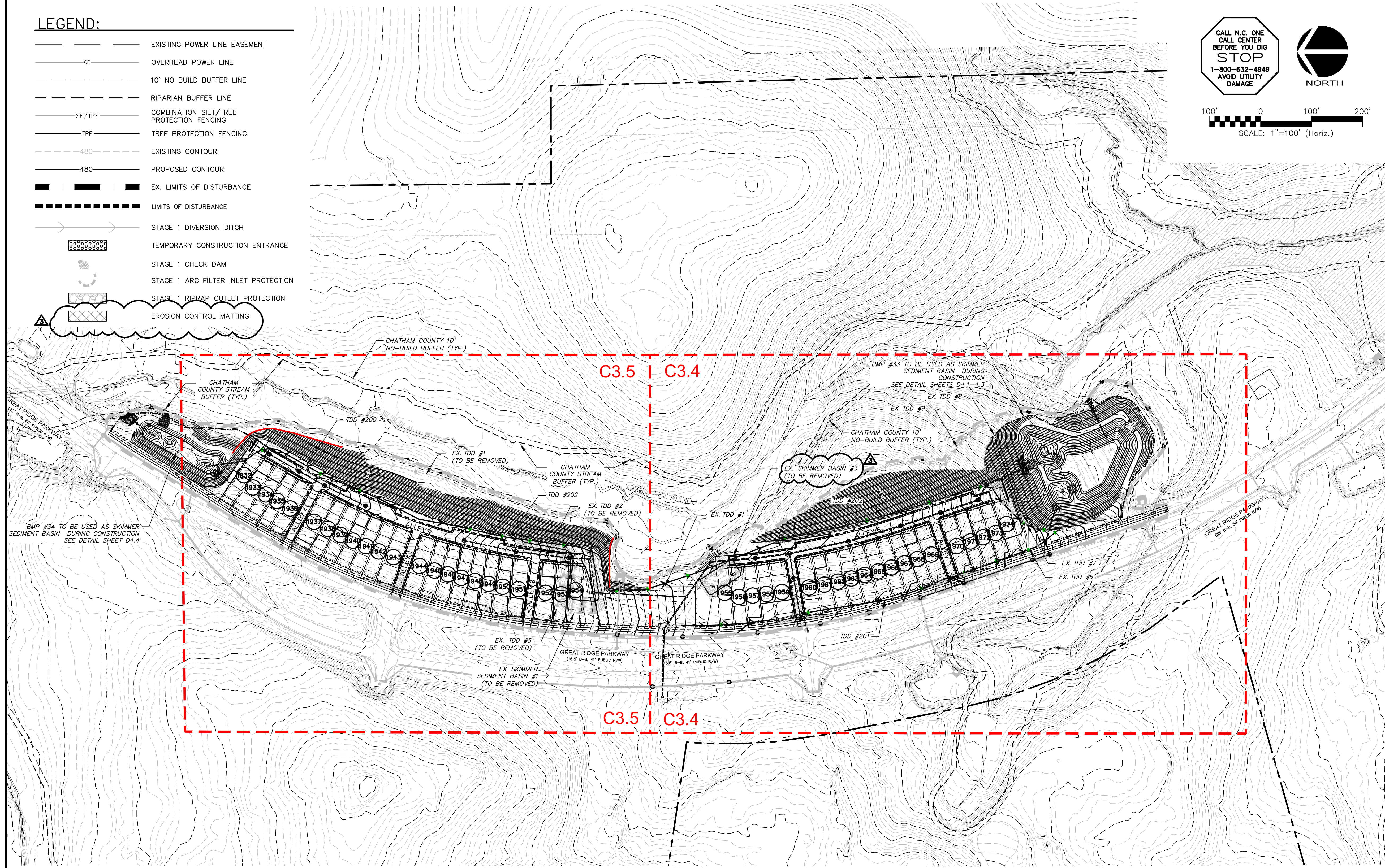
RETAINING WALL NOTES:

1. RETAINING WALL DESIGN IS BY OTHERS. OWNER SHALL PROCURE A QUALIFIED RETAINING WALL DESIGNER FOR THE PROJECT. RETAINING WALL INFORMATION SHOWN ON THESE PLANS ARE FOR LOCATION AND GRADE INFORMATION ONLY. OWNER RESPONSIBLE FOR PROVIDING NECESSARY INFORMATION TO WALL DESIGNER AS REQUIRED FOR PROPER DESIGN OF RETAINING WALLS.
2. TOP GRADE OF WALL AND BOTTOM GRADE OF WALL SPECIFIED IN PLANS ARE INTENDED TO BE THE FINISHED PAVEMENT OR EARTH GRADE. THE WALL DESIGNER SHALL ADJUST SHOP DRAWING WALL ELEVATIONS FOR THE TOP AND BOTTOM OF WALL TO MEET SPECIFIC PRODUCT DESIGN CRITERIA AND WALL GEOMETRY AS NECESSARY TO ACHIEVE DESIRED FINISHED GRADES. THE HORIZONTAL WALL LOCATION AS SHOWN IS THE FINISHED LOCATION OF THE BOTTOM OF WALL. THE WALL DESIGNER SHALL COORDINATE WITH THE ENGINEER TO VERIFY WHETHER CONFLICTS EXIST. THE WALL DESIGNER SHALL NOTIFY THE ENGINEER IN CASE OF ANY CONFLICTS, INCLUDING BUT NOT LIMITED TO EXISTING OR PROPOSED UTILITIES, WALL BATTER, GEGRID PLACEMENT, ETC., OR IF ANY ASPECT OF WALL PLACEMENT CAN NOT BE ACCOMPLISHED. ALL WORK RELATED TO THE RETAINING WALL CONSTRUCTION SHALL BE ACCOMPLISHED WITHIN THE BOUNDARIES OF THE PROJECT PROPERTY, WITHOUT IMPACTING BUFFERS.
3. IT IS THE RESPONSIBILITY OF THE OWNER AND WALL DESIGNER TO ASSURE THAT THE REQUIRED SOIL BEARING PRESSURE, SUBSURFACE DRAINAGE AND SURFACE DRAINAGE ARE ACHIEVED AS RELATED TO THE RETAINING WALL DESIGN. THIS SHOULD BE VERIFIED BY A GEOTECHNICAL ENGINEER. SPECIAL ATTENTION IS REQUIRED TO ENSURE BEARING CAPACITY HAS BEEN ACHIEVED AT LOCATIONS WHERE PIPE PENETRATIONS ARE TO OCCUR. IT SHALL BE THE RESPONSIBILITY OF THE CLIENT TO PROVIDE QUALITY CONTROL / QUALITY ASSURANCE TESTING ASSOCIATED WITH THE WALL CONSTRUCTION. THE GEOTECHNICAL ENGINEER OR WALL DESIGNER SHALL PROVIDE ANY CERTIFICATIONS AS MAY BE REQUIRED TO SHOW COMPLIANCE WITH ORIGINAL DESIGN DOCUMENTS AS RELATED TO THE WALL DESIGN AND CONSTRUCTION.



LEGEND:

- EXISTING POWER LINE EASEMENT
- OE — OVERHEAD POWER LINE
- 10' NO BUILD BUFFER LINE
- RIPARIAN BUFFER LINE
- SF / TPF — COMBINATION SILT/TREE PROTECTION FENCING
- TPF — TREE PROTECTION FENCING
- 480 — EXISTING CONTOUR
- 480 — PROPOSED CONTOUR
- EX. LIMITS OF DISTURBANCE
- LIMITS OF DISTURBANCE
- STAGE 1 DIVERSION DITCH
- TEMPORARY CONSTRUCTION ENTRANCE
- STAGE 1 CHECK DAM
- STAGE 1 ARC FILTER INLET PROTECTION
- STAGE 1 RIPRAP OUTLET PROTECTION
- EROSION CONTROL MATTING



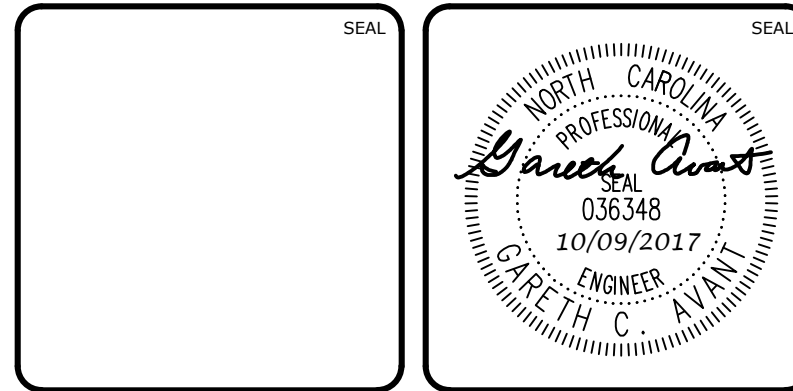
STAGE 2 CONSTRUCTION SEQUENCE:

1. CONTRACTOR SHALL MAINTAIN ALL STAGE 1 EROSION CONTROL DEVICES THROUGHOUT CONSTRUCTION IN ACCORDANCE WITH THESE PLANS OR AS CONSTRUCTION REQUIRES THEM TO BE REMOVED, WITH APPROVAL CHATHAM COUNTY.
2. GRADING OPERATIONS SHALL BE COMPLETED SUCH THAT RUNOFF CAN BE DIRECTED TOWARDS ANY OF THE APPROVED SEDIMENT BASIN OR TRAPS AT ALL TIMES DURING CONSTRUCTION.
3. MASS GRADING SHALL BEGIN AT THE SOUTHERN HALF OF PHASE 13, JUST NORTH OF BMP #33, AND CONTINUE NORTH TOWARDS THE MIDDLE STREAM FINGER. AS MATERIAL IS REMOVED FROM THE SOUTHERN SECTION, IT SHALL BE PLACED IN THE NORTHERN SECTION, CLOSEST TO BMP #34 IN ORDER TO MAINTAIN POSITIVE DRAINAGE IN TDD #1 AND INTO TEMPORARY SEDIMENT BASIN #1 FOR AS LONG AS POSSIBLE.
4. AS MASS GRADING ALLOWS, STAGE 2 TEMPORARY DIVERSION DITCHES SHALL BE INSTALLED AND TEMPORARY STAGE 1 MEASURES SHALL BE REMOVED ONCE CONTRIBUTING AREAS CAN BE DIVERTED TO OTHER APPROVED EROSION CONTROL DEVICES.
5. TEMPORARY DIVERSION DITCH #200 SHALL BE INSTALLED, SEEDDED AND LINED IN ACCORDANCE WITH THESE PLANS AS GRADING ALLOWS TO DIVERT RUNOFF INTO BMP #34. TEMPORARY ROCK CHECK DAMS AND SLOPE DRAINAGE SHALL BE INSTALLED AT THE TIME OF INSTALLATION.
6. TEMPORARY DIVERSION DITCH #201 SHALL BE INSTALLED, SEEDDED AND LINED IN ACCORDANCE WITH THESE PLANS TO PREVENT SEDIMENTATION INTO GREAT RIDGE PARKWAY DURING CONSTRUCTION.
7. TEMPORARY DIVERSION DITCH #202 SHALL BE INSTALLED, SEEDDED AND LINED IN ACCORDANCE WITH THESE PLANS. IT SHALL BE EXTENDED NORTH AS GRADING ALLOWS IN ORDER TO MAINTAIN POSITIVE DRAINAGE FROM ITS BEGINNING POINT TO BMP #33. TEMPORARY SEDIMENT BASIN #1 AND TEMPORARY SEDIMENT TRAP #4 SHALL BE MUCKED OUT, AND FILLED WITH MATERIAL PLACED IN A CONTROLLED MANNER, UNDER THE SUPERVISION OF THE PROJECT'S GEOTECHNICAL ENGINEER. THE BASIN SHALL ONLY BE REMOVED WITH THE APPROVAL OF CHATHAM COUNTY.
8. AS ELEVATIONS ARE BROUGHT TO FINAL GRADES AND STORM PIPING AND OTHER UTILITIES ARE INSTALLED IN ROADWAY SECTIONS, CONTRACTOR SHALL INSTALL HARDWARE CLOTH AND GRAVEL INLET PROTECTION AS SHOWN ON PLANS.
9. STABILIZE SITE AS AREAS ARE BROUGHT UP TO FINISHED GRADE WITH VEGETATION, PAVING, DITCH LINING, ETC. SEED AND MULCH DENUDEED AREAS PER GROUND STABILIZATION TIME FRAMES.
10. PERFORM SEEDING AND MULCHING AS REQUIRED IN ACCORDANCE WITH THE TEMPORARY AND PERMANENT SEEDING SCHEDULES LOCATED ON SHEET D1.1 AND NOTE #5 OF THIS SEQUENCE IN THE SOUTHERN HALF OF PHASE.
11. 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.
12. FINAL BMP CONVERSION, INCLUDING MUCKING OUT OF ACCUMULATED SEDIMENT, REMOVAL OF SKIMMERS OR Baffles AND FINAL PLANTING SHALL OCCUR AT A LATER DATE, ONCE UPSTREAM AREAS HAVE BEEN STABILIZED OR CONSTRUCTION OF HOMES ON MOST LOTS HAS BEEN COMPLETED.

NCDOT REQUIRED DRAINAGE NOTES:

1. NCDOT DOES NOT ACCEPT MAINTENANCE RESPONSIBILITY FOR THE DRAINAGE STRUCTURES AND PIPING OUTSIDE OF NCDOT'S ROADWAY RIGHT-OF-WAY
2. NCDOT ASSUMES NO RESPONSIBILITY FOR OPERATION, MAINTENANCE OR LIABILITY OF THE STRUCTURAL STORMWATER BMP'S.

REV. NO.	DESCRIPTIONS	DATE
3	REVISIONS PER COMMENTS RECEIVED FROM COUNTY EROSION CONTROL	2017.10.09
2	REVISIONS PER COMMENTS RECEIVED FROM NCDOT	2017.09.21
1	REVISIONS PER COMMENTS RECEIVED FROM COUNTY EROSION CONTROL	2017.09.13
0	SUBMITTAL TO AGENCIES	2017.07.26

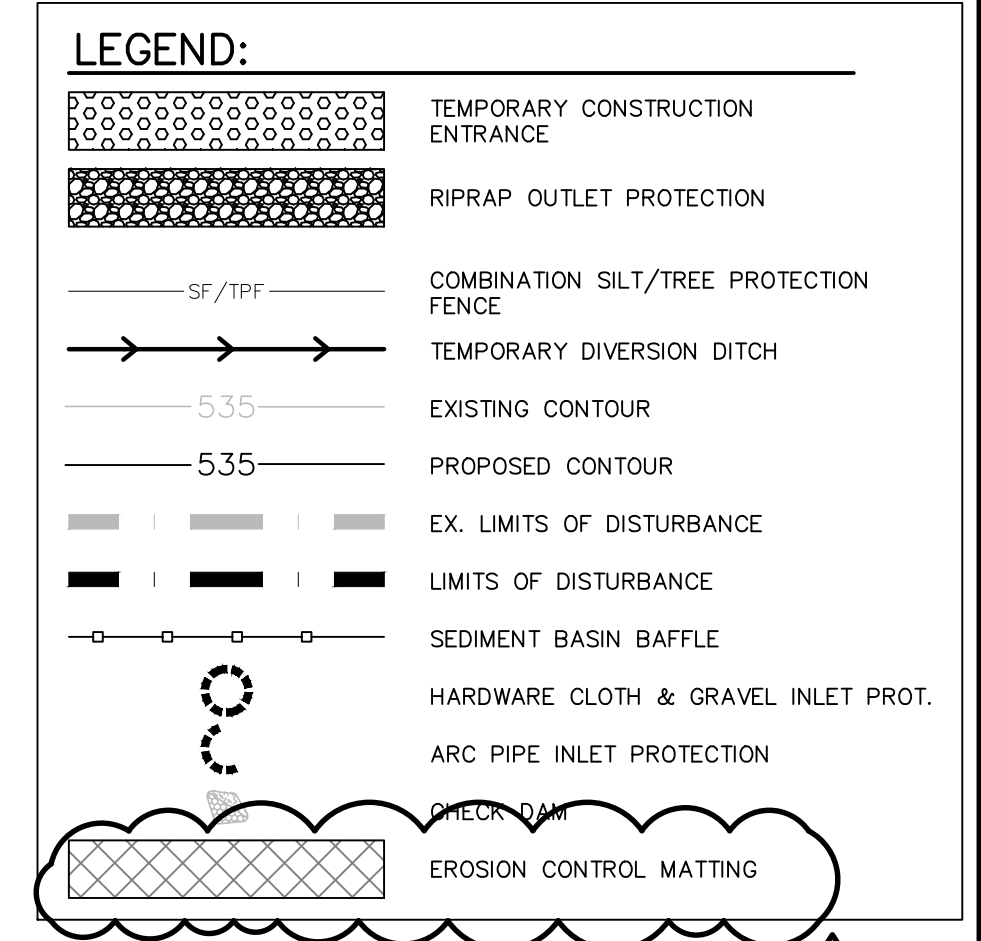
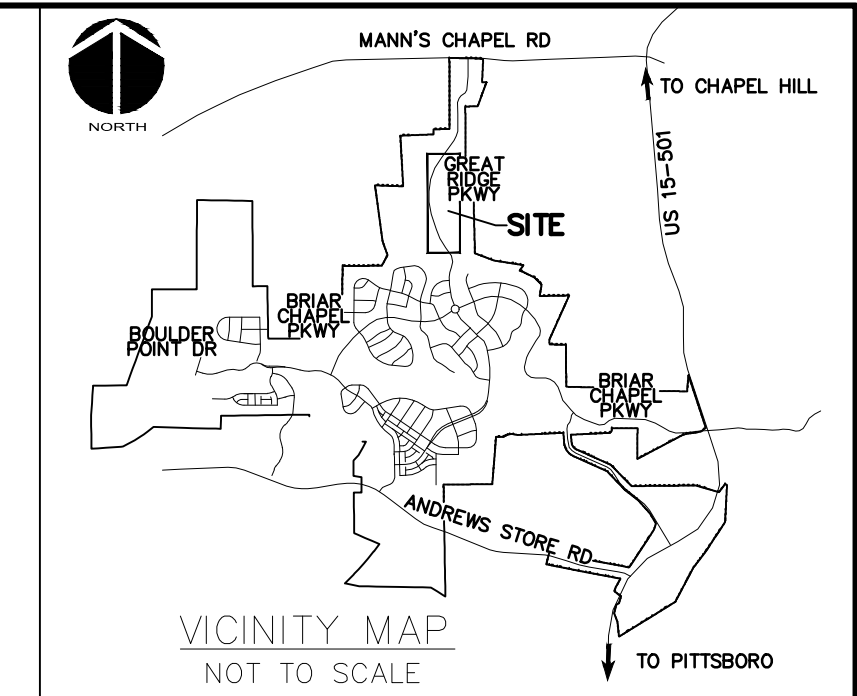


MCKIM & CREED
 1730 Varsity Drive, Suite 500
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BRIAR CHAPEL™
 by **Newland COMMUNITIES**

BRIAR CHAPEL
 PHASE 13 - SECTION 1 & 2
 CHATHAM COUNTY, NORTH CAROLINA
 OVERALL STAGE 2
 GRADING, DRAINAGE & EROSION
 CONTROL PLAN

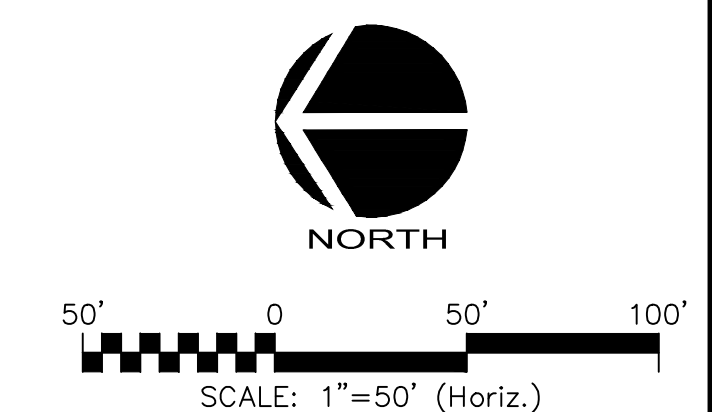
DATE: JULY 26, 2017	SCALE: C3.3	MSC FILE NUMBER: C3.3
MCE PROJ. # 02735-0198	HORIZONTAL: AS NOTED	DRAWING NUMBER: C3.3
DRAWN: BSS	VERTICAL: N/A	
DESIGNED: BSS		
CHECKED: GCA		
PROJ. MGR.: CHS		
STATUS: FOR REVIEW PURPOSES ONLY	REVISION: 3	



STORM DRAINAGE NOTES:

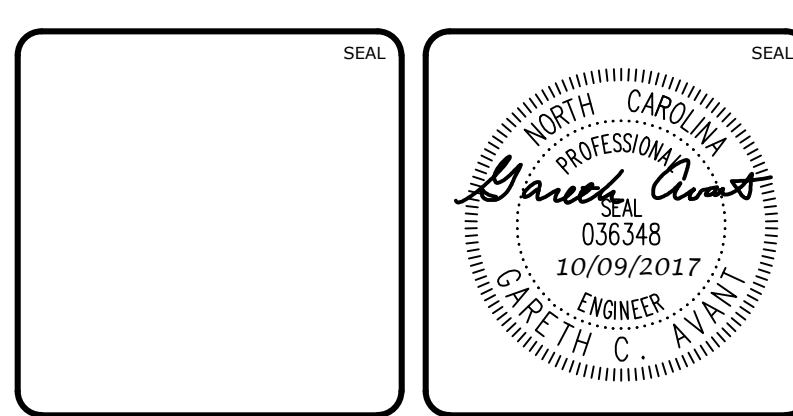
- STORM DRAINAGE PIPES SHALL BE:
 - RCP/CLASS III FOR STORM DRAINAGE INSIDE PUBLIC RIGHT-OF-WAY OR CONNECTING INTO STRUCTURE INSIDE PUBLIC RIGHT-OF-WAY IN ACCORDANCE WITH NCDOT STANDARDS UNLESS NOTED OTHERWISE.
- ALL CONCRETE SHALL MEET A MINIMUM 3,000 PSI COMPRESSIVE STRENGTH.
- ALL PIPE IN STORM DRAIN STRUCTURES SHALL BE STRUCK EVEN WITH INSIDE WALL.
- THE INTERIOR SURFACES OF ALL STORM DRAINAGE STRUCTURES SHALL BE POINTED UP AND SMOOTHED TO AN ACCEPTABLE STANDARD USING MORTAR MIXED TO MANUFACTURER'S SPECIFICATIONS.
- ALL BACKFILL SHALL BE NON-PLASTIC IN NATURE, FREE FROM ROOTS, VEGETATION MATTER, WASTE CONSTRUCTION MATERIAL OR OTHER OBJECTIONABLE MATERIAL. UTILIZED MATERIAL SHALL BE CAPABLE OF BEING COMPACTED BY MECHANICAL MEANS AND SHALL HAVE NO TENDENCY TO FLOW OR BEHAVE IN A PLASTIC MANNER UNDER THE TAMPING BLOWS OR PROOF ROLLING.
- MATERIALS DEEMED AS UNSUITABLE FOR BACKFILL PURPOSES BY THE OWNER'S REPRESENTATIVE SHALL BE REMOVED AND REPLACED WITH SUITABLE MATERIAL.
- BACKFILLING OF TRENCHES SHALL BE ACCOMPLISHED IMMEDIATELY AFTER PIPE IS LAID. THE FILL AROUND THE PIPE SHALL BE THOROUGHLY COMPACTED TO 95% OF THE MAXIMUM DRY DENSITY OBTAINABLE WITH THE STANDARD PROCTOR TEST. THE TOP EIGHT (8) INCHES SHALL BE COMPACTED TO 100% STANDARD PROCTOR.
- UNDER NO CIRCUMSTANCES SHALL WATER BE ALLOWED TO RISE IN UNBACKFILLED TRENCHES AFTER PIPE HAS BEEN PLACED.
- ALL FLARED END SECTIONS DISCHARGING INTO WATER QUALITY PONDS WILL HAVE A CONCRETE PAD POURED UNDERNEATH THE FLARED END SECTION IN ACCORDANCE WITH PROVIDED CONSTRUCTION DETAILS.
- RIM ELEVATIONS OF STORM DRAIN STRUCTURES SHALL BE FIELD VERIFIED.
- STORM DRAINAGE WITHIN PRIVATE EASEMENTS TO BE OWNED, OPERATED AND MAINTAINED BY HOME OWNER'S ASSOCIATION OR AGENT THEREOF.
- LENGTHS SHOWN FOR STORM DRAINAGE PIPES ARE MEASURED FROM CENTER OF STORM STRUCTURES AND TO ENDS OF FLARED END SECTIONS. SLOPES CALCULATED ARE BASED ON THIS LENGTH.
- CB DENOTES CATCH BASINS TO BE INSTALLED IN THE CENTERS OF PAVED ALLEYS AND NON-PAVED AREAS. REFER TO NCDOT DETAILS 840.19 AND 840.24 ON SHEET D-2.2.
- CI DENOTES CURB INLETS TO BE INSTALLED IN THE CURB LINES OF ROADWAYS. REFER TO NCDOT DETAILS 840.02 AND 840.03 ON SHEET D-2.2.

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



MATCHLINE - SEE SHEET C3.5

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DATE: JULY 26, 2017	SCALE: HORIZONTAL: 1" = 50'	MISC FILE NUMBER: C3.4
MCE PROJ. # 02735-0198	VERTICAL: N/A	DRAWING NUMBER: C3.4
DRAWN: BSS		
DESIGNED: BSS		
CHECKED: GCA		
PROJ. MGR.: CHS		
STATUS: FOR REVIEW PURPOSES ONLY	REVISION: 3	