

BRIAR CHAPEL

PHASE 8

PRELIMINARY PLAT SUBMITTAL

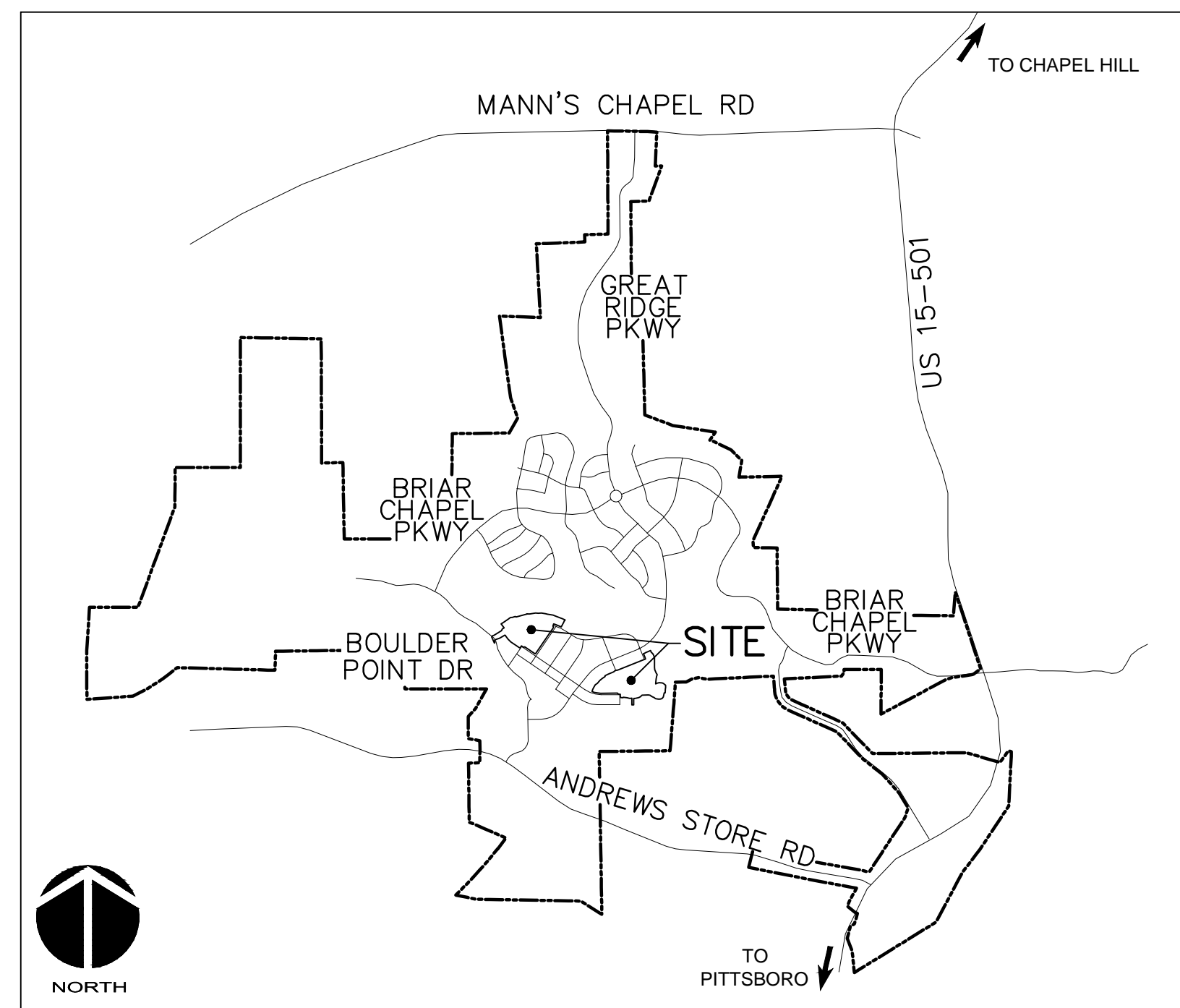
U.S. HWY 15-501 and MANN'S CHAPEL ROAD

CHATHAM COUNTY, NORTH CAROLINA

DATE: JUNE 18, 2013

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) 542-0945 phone
Contact: Dan LaMontagne, PE
Email: dan.lamontagne@chathamnc.org</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>D. Chatham County
Public Works
964 East Street, 2nd Floor, Suite 205
Pittsboro, NC 27312
(919) 542-8270 phone
Contact: Leonard McBryde, III
Email: leonard.mcbride@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: Jeff B. Loflin, PE
Email: jloflin@ncdot.gov</p> <p>F. NCDENR
Division of Water Quality
2321 Crabtree Blvd., Suite 250
Raleigh, NC 27604
(919) 791-4200 phone
Contact: Annette Lucas
Email: Annette.Lucas@ncdenr.gov</p> <p>G. NCDENR
Division of Environmental Health
Public Water Supply Section
1634 Mail Service Center
Raleigh, NC 27699-1634
(919) 707-9074 phone
Contact: Richard Dickie
Email: richard.dickie@ncdenr.gov</p> <p>H. NCDENR
Division of Water Quality
Surface Water Protection
3800 Barrett Drive
Raleigh, NC 27609
(919) 791-4200 phone
Contact: Barry Herzberg
Email: barry.herzberg@ncdenr.gov</p> |
|--|--|



VICINITY MAP

NTS

PROJECT DATA

NAME OF PROJECT:
PHASE 8
CHATHAM COUNTY, NORTH CAROLINA

OWNER:
NNP BRIAR CHAPEL, LLC
16 WINDY KNOLL CIRCLE
CHAPEL HILL, NC 27516
PHONE: (919) 951-0700
FAX: (919) 240-4963
CONTACT: KEVIN GRAHAM
EMAIL: kgraham@newlandco.com

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

PROJECT AREA: 24.7 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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C0.1	COVER SHEET
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C4.2	PLAN & PROFILE ROAD S-SECTION 2, ROAD K-SECTION 2
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D4.2	DETAILS-BMP #13
D4.3	DETAILS-BMP #13
D4.4	STORM DRAINAGE/SANITARY SEWER TABLE

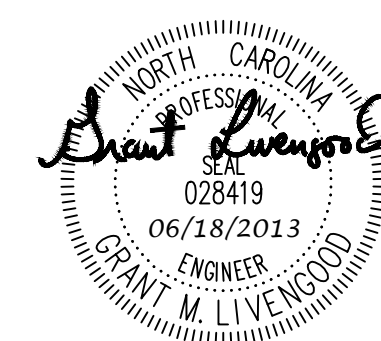


by
Newland COMMUNITIES

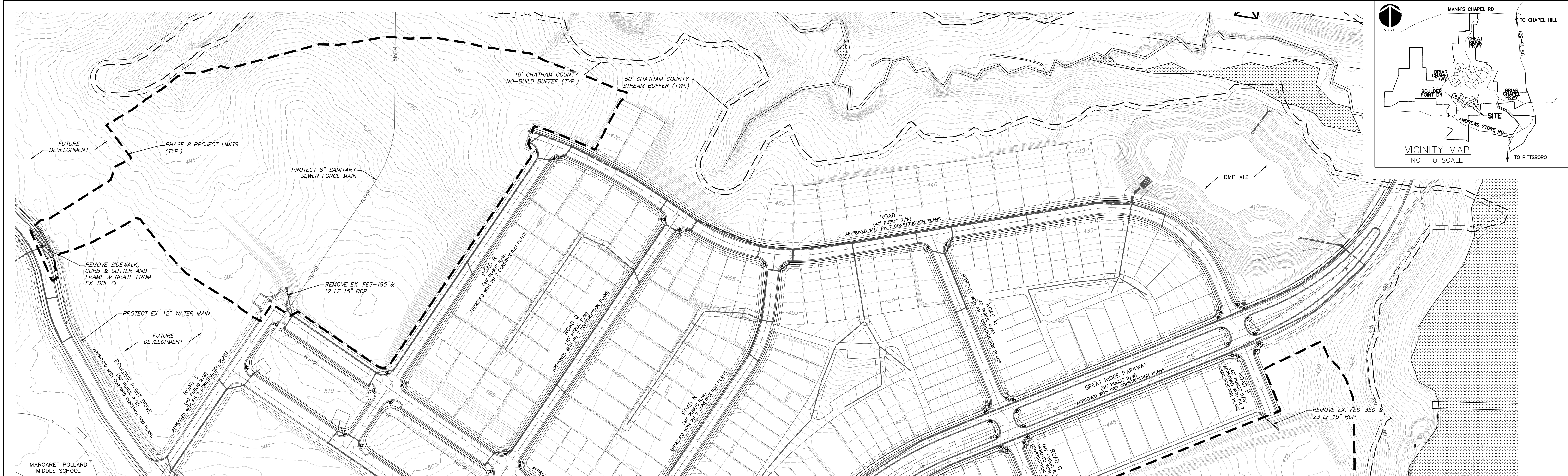
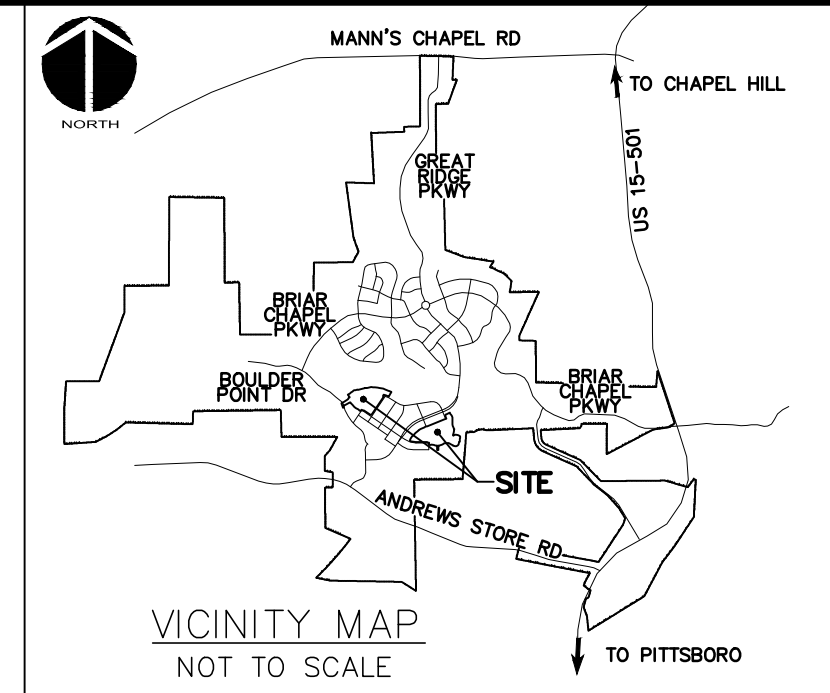


1730 Varsity Drive, Suite 500
Raleigh, North Carolina 27606
Phone: (919)233-8091, Fax: (919)233-8031
F-1222

www.mckimcreed.com



FINAL DRAWINGS



- GENERAL NOTES:**
- REFER TO THE FOLLOWING MCKIM & CREED, INC. CONSTRUCTION PLANS, AND ALL SUBSEQUENT CONSTRUCTION BULLETINS FOR INFORMATION ON EXISTING SITE INFRASTRUCTURE:
 - BRIAR CHAPEL - GRANITE MILL BOULEVARD AND BOULDER POINT DRIVE CONSTRUCTION PLANS SEALED JUNE 8, 2010
 - BRIAR CHAPEL - PHASE 5 NORTH CONSTRUCTION PLANS SEALED MARCH 30, 2012
 - BRIAR CHAPEL - PHASE 6 SOUTH CONSTRUCTION PLANS SEALED JANUARY 27, 2012
 - BRIAR CHAPEL - BRIAR CHAPEL PARKWAY AND BOULDER POINT DRIVE EXTENSION SEALED JANUARY 1, 2012
 - REFER TO THE FOLLOWING JOHN R. MCADAMS COMPANY, INC. CONSTRUCTION PLANS, AND ALL SUBSEQUENT CONSTRUCTION BULLETINS FOR INFORMATION ON EXISTING SITE INFRASTRUCTURE:
 - 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 - POND 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-CUD.
 - 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: 768,395.12', E: 1,963,424.93' USING A COMBINED FACTOR OF 0.99990676.
 - EXISTING TOPOGRAPHIC DATA IS BASED ON AERIAL MAPPING PERFORMED BY AVOIMAGE 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 DELINEATIONS PROVIDED BY SOIL AND ENVIRONMENTAL CONSULTANTS IN RALEIGH, NC - CONTACT MIKKI THOMSON AT 919-846-5900.
 - A PORTION OF THIS PROPERTY IS LOCATED IN SPECIAL FLOOD HAZARD AREA "AE" AS SHOWN ON FEMA FIRM MAP #3710876500J 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, 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.

LEGEND:

	EXISTING WETLANDS
	AREA OF DEMOLITION
	OVERALL PROPERTY BOUNDARY
	100' PROPERTY BOUNDARY BUFFER
	10' NO BUILD BUFFER LINE
	STREAM BUFFER LINE
	EX. CONTOUR
	EX. POWER LINE EASEMENT
	OVERHEAD POWER LINE
	EX. SANITARY SEWER FORCE MAIN
	EX. REUSE IRRIGATION MAIN
	EX. WATER MAIN
	EX. STORM DRAINAGE PIPE
	PROJECT LIMITS

SCALE: 1"=100' (Horiz.)

STOP
CALL N.C. ONE CALL CENTER BEFORE YOU DIG
1-800-832-4949
AVOID UTILITY DAMAGE

REV. NO.	DESCRIPTIONS/REVISIONS	DATE
3	REVISED PER NCDOT COMMENTS	2013.06.18
2	REVISED PER CHATHAM COUNTY REVIEW	2013.06.03
1	1ST SUBMITTAL TO REVIEW AGENCIES	2013.05.21

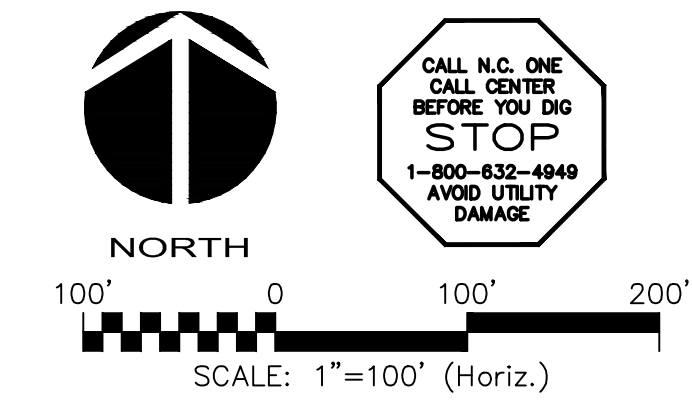
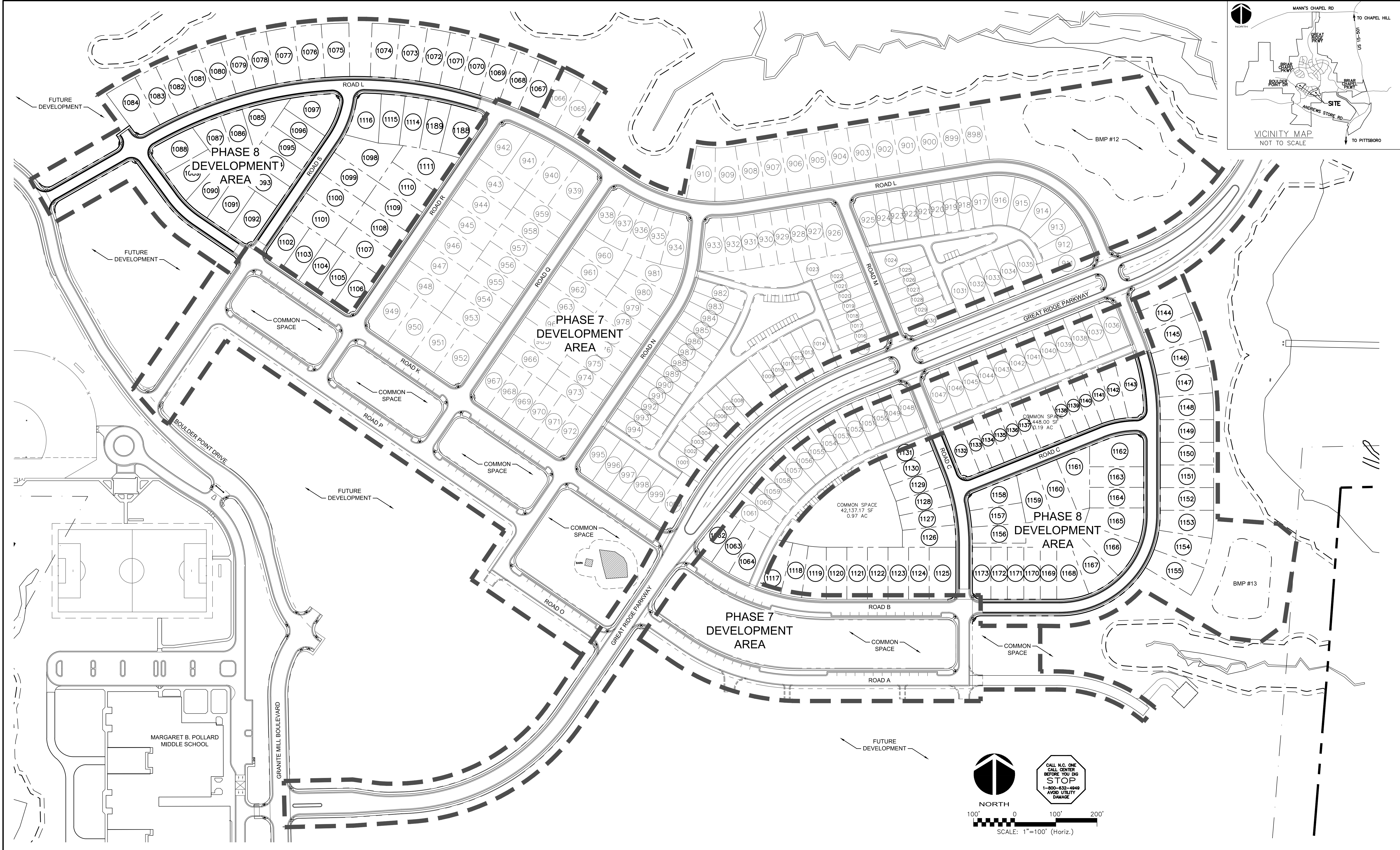
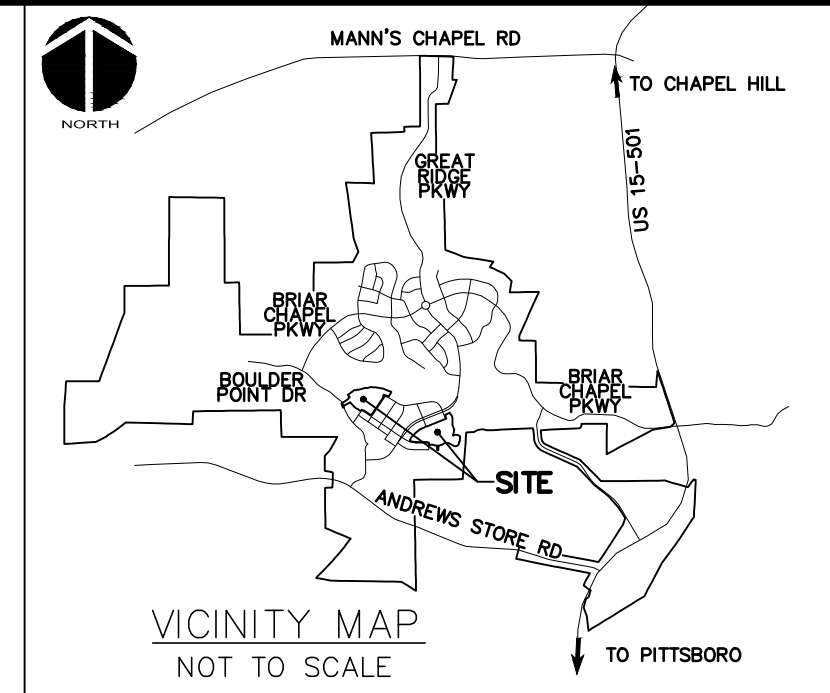
Professional Engineer Seal for **David L. Lively**, License No. 028419, dated 06/18/2013.

MCKIM & CREED
1730 Varsity Drive, Suite 500
Raleigh, North Carolina 27606
Phone: (919)233-8091, Fax: (919)233-8031
F-1222
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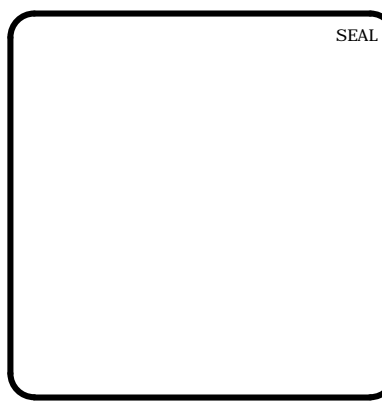
BRIAR CHAPEL™
by **Newland COMMUNITIES**

BRIAR CHAPEL PHASE 8
CHATHAM COUNTY, NORTH CAROLINA
EXISTING CONDITIONS/ DEMOLITION PLAN

DATE: MAY 21, 2013	SCALE: HORIZONTAL: 1" = 50'	VERTICAL: N/A	MFC FILE NUMBER: C0.2
MCE PROJ. #: 02735-0092	DRAWN: GCA	DESIGNED: GCA	CHECKED: CHS
PROJ. MGR.: CHS	STATUS: FINAL DRAWINGS	REVISION: 3	



REV. NO.	DESCRIPTIONS / REVISIONS	DATE
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**BRIAR CHAPEL
 PHASE 8
 CHATHAM COUNTY, NORTH CAROLINA**

OVERALL SITE PLAN

DATE: MAY 21, 2013	SCALE: HORIZONTAL: 1" = 50'	MFC FILE NUMBER: CR101
MCE PROJ. #: 02735-0092	VERTICAL: N/A	DRAWING NUMBER: C1.0
DRAWN: GCA		
DESIGNED: GCA		
CHECKED: CHS		
PROJ. MGR.: CHS		
STATUS: FINAL DRAWINGS	REVISION: 3	

SITE GENERAL NOTES:

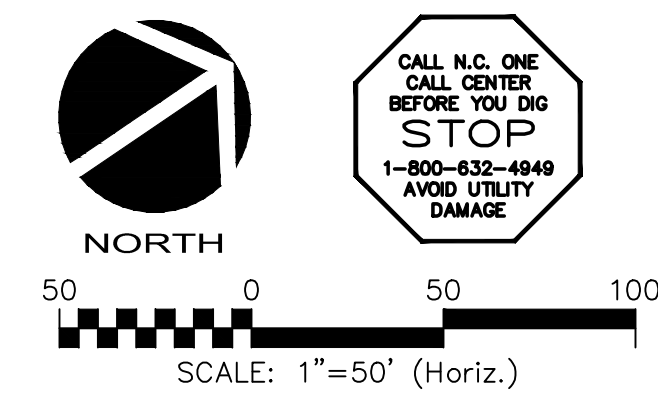
- ALL DIMENSIONS AND GRADES SHOWN ON THE PLANS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY OWNER IF ANY DISCREPANCIES EXIST PRIOR TO CONSTRUCTION. NO ADDITIONAL COMPENSATION WILL BE PAID TO THE CONTRACTOR FOR ANY WORK DONE DUE TO DIMENSIONS OR GRADES SHOWN INCORRECTLY ON THE PLANS IF SUCH NOTIFICATION HAS NOT BEEN GIVEN.
- REFER TO THE FOLLOWING MCKIM & CREED, INC. CONSTRUCTION PLANS, AND ALL SUBSEQUENT CONSTRUCTION BULLETINS FOR INFORMATION ON EXISTING SITE INFRASTRUCTURE:
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- A PORTION OF THIS PROPERTY IS LOCATED IN SPECIAL FLOOD HAZARD AREA "AE" AS SHOWN ON FEMA FIRM MAP #3710976500J 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 AND PRIVATE ALLEYS.

CHATHAM COUNTY REQUIRED SITE NOTES

- PROPERTY OWNER/DEVELOPER:
NMP BRIAR CHAPEL, LLC
16 WINDY KNOLL CIRCLE
CHAPEL HILL, NC 27516
PHONE: (919) 951-0700
- SITE AKPAR #: 82826

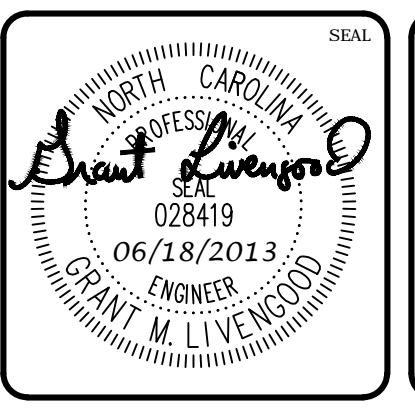
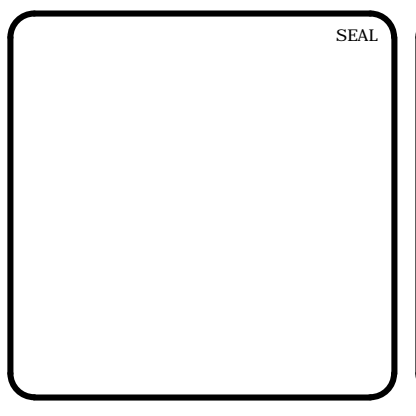
LEGEND

	ROADWAY CENTERLINE
	ROW
	LOT LINE
	CHATHAM COUNTY STREAM BUFFER
	10' NO BUILD ZONE BUFFER
	4' H.O.A. EASEMENT
	4' PRIVATE UTILITY EASEMENT
	BMP MAINTENANCE & ACCESS EASEMENT
	SIDEWALK EASEMENT
	TYPE III BARRICADE
	SIGN
	EXISTING WETLANDS
	EXISTING STREAM CHANNEL
	NEW ROADWAY PAVEMENT



LOT AREA TABLE			LOT AREA TABLE			LOT AREA TABLE			LOT AREA TABLE		
LOT #	AREA (SF)	AREA (AC)	LOT #	AREA (SF)	AREA (AC)	LOT #	AREA (SF)	AREA (AC)	LOT #	AREA (SF)	AREA (AC)
1062	5741.00	0.13	1092	7730.47	0.18	1122	6325.00	0.15	1150	7150.00	0.16
1063	5617.73	0.13	1093	6720.00	0.15	1123	6325.00	0.15	1151	7150.00	0.16
1064	6058.95	0.14	1094	6000.00	0.14	1124	6325.00	0.15	1152	7150.00	0.16
1067	6914.91	0.16	1095	6000.00	0.14	1125	8136.66	0.19	1153	7632.58	0.18
1068	6914.91	0.16	1096	6000.00	0.14	1126	6180.40	0.14	1154	7961.66	0.18
1069	6914.91	0.16	1097	8411.64	0.19	1127	5533.64	0.13	1155	7961.66	0.18
1070	6914.91	0.16	1098	10075.30	0.23	1128	5559.84	0.13	1156	5732.08	0.13
1071	6914.91	0.16	1099	7860.00	0.18	1129	5663.52	0.13	1157	5876.78	0.13
1072	6914.91	0.16	1100	7860.00	0.18	1130	5493.02	0.13	1158	6701.99	0.15
1073	8277.85	0.19	1101	8646.00	0.20	1131	5197.86	0.12	1159	7207.95	0.17
1074	8298.26	0.19	1102	6514.16	0.15	1132	5860.46	0.13	1160	7372.87	0.17
1075	8298.26	0.19	1103	6000.00	0.14	1133	4224.00	0.10	1161	8145.85	0.19
1076	8298.26	0.19	1104	6000.00	0.14	1134	4224.00	0.10	1162	9195.14	0.21
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1078	6914.91	0.16	1106	6514.16	0.15	1136	4224.00	0.10	1164	6575.00	0.15
1079	6914.91	0.16	1107	8514.00	0.20	1137	4224.00	0.10	1165	8628.02	0.20
1080	6914.91	0.16	1108	7740.00	0.18	1138	4224.00	0.10	1166	8677.69	0.20
1081	6914.91	0.16	1109	7740.00	0.18	1139	4224.00	0.10	1167	7622.96	0.17
1082	6914.91	0.16	1110	7740.00	0.18	1140	4224.49	0.10	1168	7420.82	0.17
1083	6914.91	0.16	1111	9826.45	0.23	1141	4929.06	0.11	1169	5060.00	0.12
1084	9111.84	0.21	1114	8419.51	0.15	1142	5283.76	0.12	1170	5060.00	0.12
1085	6685.09	0.15	1115	6540.64	0.15	1143	7180.73	0.16	1171	5060.00	0.12
1086	6539.06	0.15	1116	7448.11	0.17	1144	6695.00	0.15	1172	5060.00	0.12
1087	7439.87	0.17	1117	6220.81	0.14	1145	7799.85	0.18	1173	5606.66	0.13
1088	8224.33	0.19	1118	5710.39	0.13	1146	7917.96	0.18			
1089	7524.42	0.17	1119	6585.91	0.15	1147	7917.96	0.18			
1090	7119.00	0.16	1120	6325.00	0.15	1148	7776.01	0.18			
1091	7200.00	0.17	1121	6325.00	0.15	1149	7150.00	0.16			

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3	REVISED PER NCDOT COMMENTS	2013.06.18
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1	1ST SUBMITTAL TO REVIEW AGENCIES	2013.05.21



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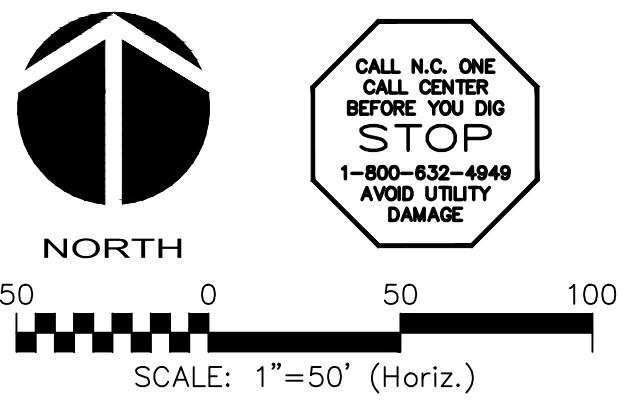
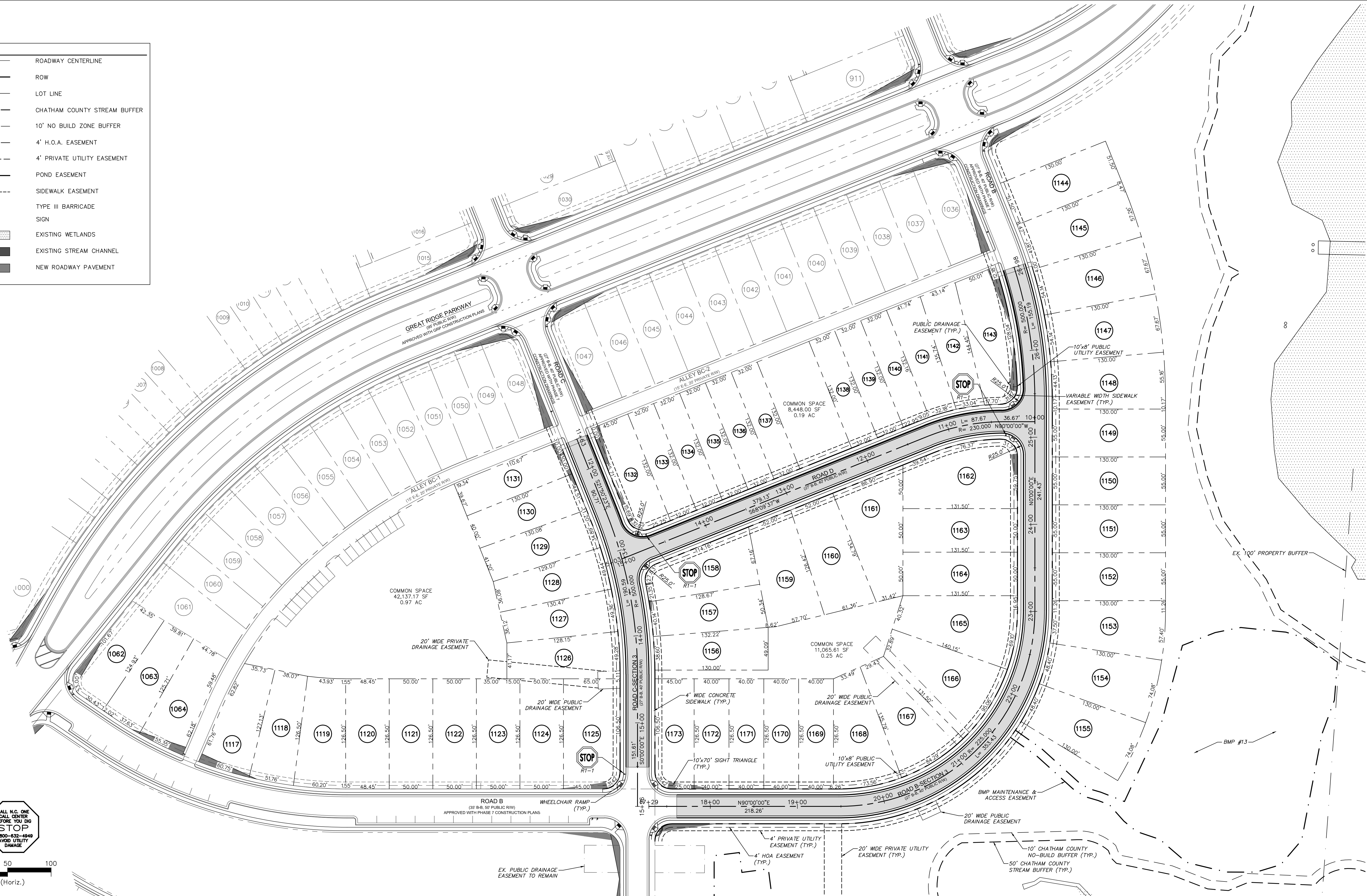
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 by
Newland COMMUNITIES

**BRIAR CHAPEL
 PHASE 8
 CHATHAM COUNTY, NORTH CAROLINA**

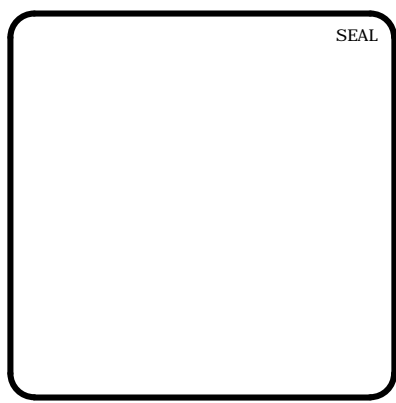
SITE PLAN

DATE: MAY 21, 2013	SCALE: HORIZONTAL: 1" = 50'	PROJECT NUMBER: CR101
MCE PROJ. #: 02735-0092	VERTICAL: N/A	DRAWING NUMBER: C1.1
DRAWN: GCA		
DESIGNED: GCA		
CHECKED: CHS		
PROJ. MGR.: CHS		
STATUS: FINAL DRAWINGS	REVISION: 3	

LEGEND	
	ROADWAY CENTERLINE
	ROW
	LOT LINE
	CHATHAM COUNTY STREAM BUFFER
	10' NO BUILD ZONE BUFFER
	4' H.O.A. EASEMENT
	4' PRIVATE UTILITY EASEMENT
	POND EASEMENT
	SIDEWALK EASEMENT
	TYPE III BARRICADE SIGN
	EXISTING WETLANDS
	EXISTING STREAM CHANNEL
	NEW ROADWAY PAVEMENT



REV. NO.	DESCRIPTIONS	DATE
3	REVISED PER NCDOT COMMENTS	2013.06.18
2	REVISED PER CHATHAM COUNTY REVIEW	2013.06.03
1	1ST SUBMITTAL TO REVIEW AGENCIES	2013.05.21



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**BRIAR CHAPEL
 PHASE 8
 CHATHAM COUNTY, NORTH CAROLINA**

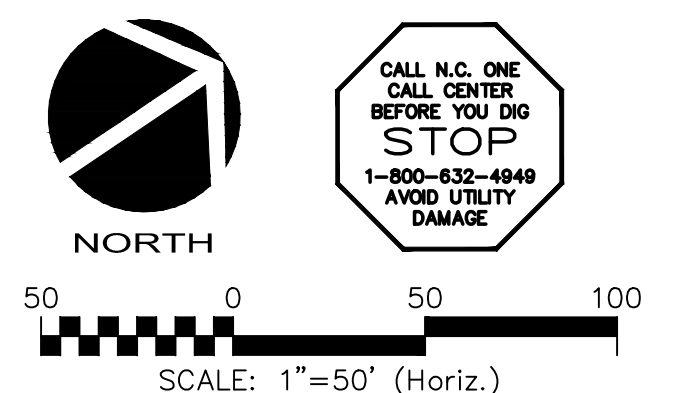
SITE PLAN

DATE: MAY 21, 2013	SCALE: 1" = 50'	FILE NUMBER: CR101
MCE PROJ. # 02735-0092	HORIZONTAL: 1" = 50'	DRAWING NUMBER: C1.2
DRAWN: GCA	VERTICAL: N/A	
DESIGNED: GCA		
CHECKED: CHS		
PROJ. MGR: CHS		
STATUS: FINAL DRAWINGS	REVISION: 3	

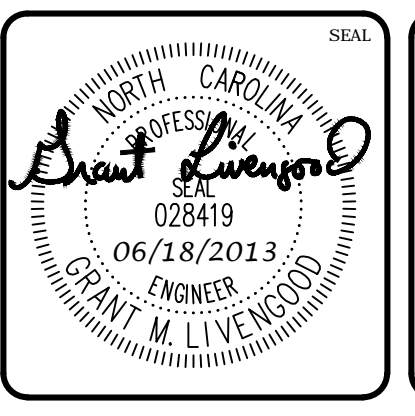
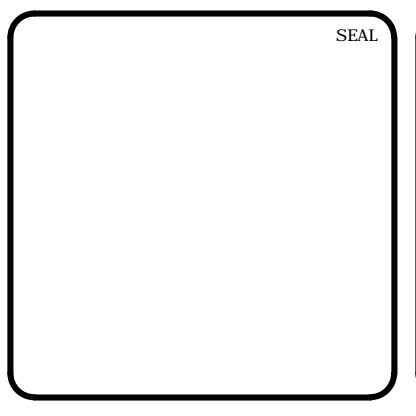
UTILITY NOTES:

- 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 1".
- 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.
- USE WATERTIGHT RIMS FOR SANITARY SEWER MANHOLES LOCATED IN PAVED ALLEYS.
- SANITARY SEWER WITHIN PRIVATE EASEMENTS TO BE OWNED, OPERATED AND MAINTAINED BY HOME OWNERS ASSOCIATION OR AGENT THEREOF.
- 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 UTILITY EASEMENT CENTERED ON THE PROPOSED WATER MAIN.
- CONTRACTOR TO COORDINATE WITH CHATHAM COUNTY PUBLIC WORKS FOR ALL IRRIGATION SLEEVE SIZING.

LEGEND	
SS	SANITARY SEWER LINE
W	WATER MAIN
SS	EXISTING SANITARY SEWER LINE
W	EXISTING WATER MAIN
⊙	SANITARY SEWER MANHOLE
⊗	SANITARY SEWER CLEANOUT
⊠	WATER METER
⊕	FIRE HYDRANT ASSEMBLY (FHA)
—	ROADWAY CENTERLINE
- - -	ROW
- - -	LOT LINE
- - -	CHATHAM COUNTY STREAM BUFFER
- - -	10' NO BUILD ZONE BUFFER
- - -	4' H.O.A. EASEMENT
- - -	4' PRIVATE UTILITY EASEMENT
▨	EXISTING WETLANDS



REV. NO.	DESCRIPTIONS	DATE
3	REVISED PER NCDOT COMMENTS	2013.06.18
2	REVISED PER CHATHAM COUNTY REVIEW	2013.06.03
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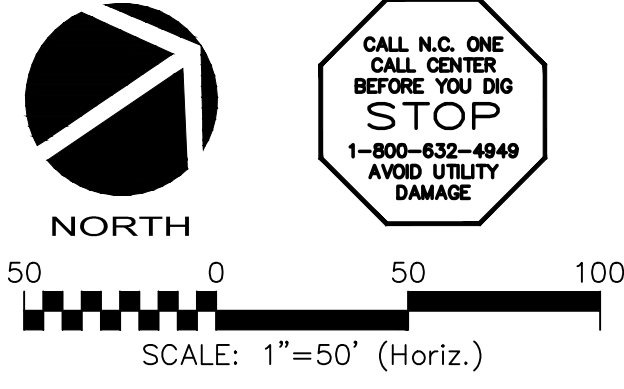
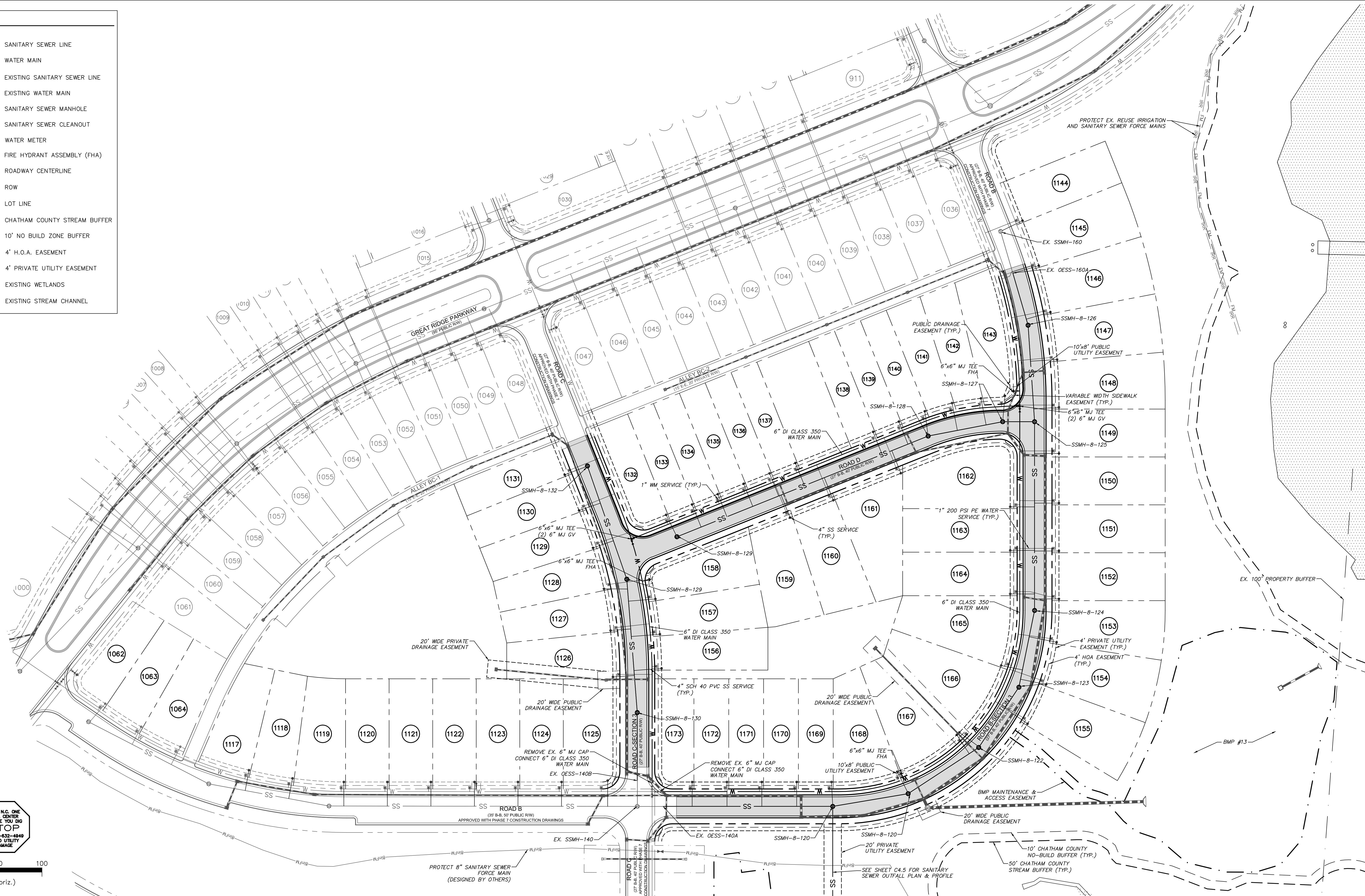
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**BRIAR CHAPEL
 PHASE 8
 CHATHAM COUNTY, NORTH CAROLINA**

UTILITY PLAN

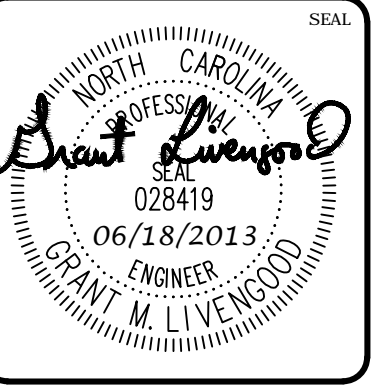
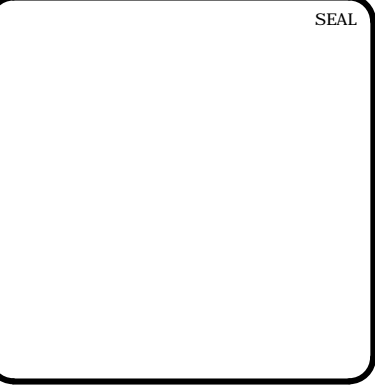
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DRAWN: GCA		
DESIGNED: GCA		
CHECKED: CHS		
PROJ. MGR.: CHS		
STATUS: FINAL DRAWINGS	REVISION: 3	

LEGEND	
SS	SANITARY SEWER LINE
W	WATER MAIN
SS	EXISTING SANITARY SEWER LINE
W	EXISTING WATER MAIN
⊙	SANITARY SEWER MANHOLE
⊗	SANITARY SEWER CLEANOUT
⊠	WATER METER
⊕	FIRE HYDRANT ASSEMBLY (FHA)
---	ROADWAY CENTERLINE
---	ROW
---	LOT LINE
---	CHATHAM COUNTY STREAM BUFFER
---	10' NO BUILD ZONE BUFFER
---	4' H.O.A. EASEMENT
---	4' PRIVATE UTILITY EASEMENT
▨	EXISTING WETLANDS
▩	EXISTING STREAM CHANNEL



CALL N.C. ONE
BEFORE YOU DIG
STOP
1-800-482-4849
AVOID UTILITY DAMAGE

REV. NO.	DESCRIPTIONS	DATE
3	REVISED PER NCDOT COMMENTS	2013.06.18
2	REVISED PER CHATHAM COUNTY REVIEW	2013.06.03
1	1ST SUBMITTAL TO REVIEW AGENCIES	2013.05.21



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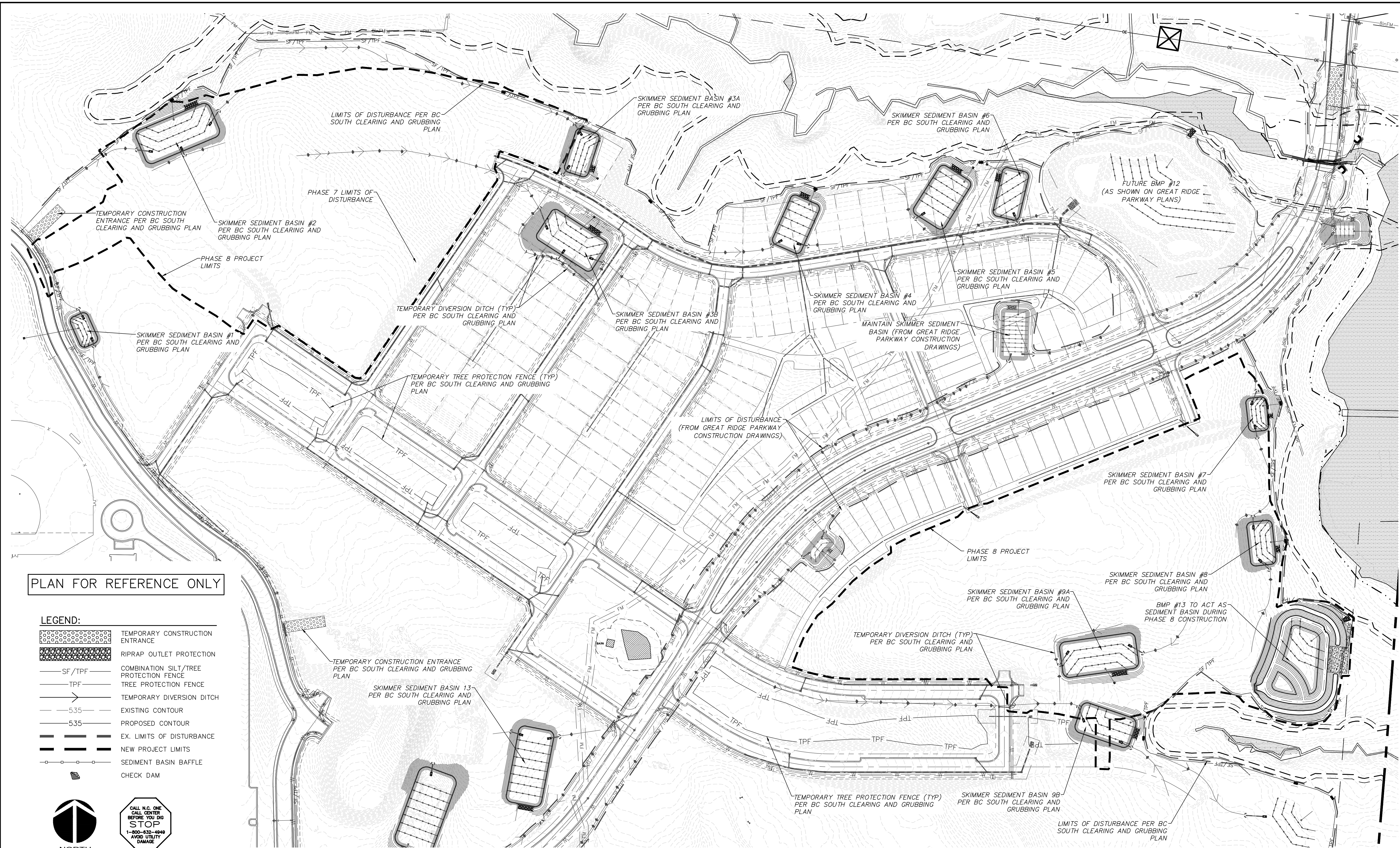
**BRIAR CHAPEL
 PHASE 8
 CHATHAM COUNTY, NORTH CAROLINA**

UTILITY PLAN

DATE:	MAY 21, 2013
MCE PROJ. #	02735-0092
DRAWN	GCA
DESIGNED	GCA
CHECKED	CHS
PROJ. MGR.	CHS

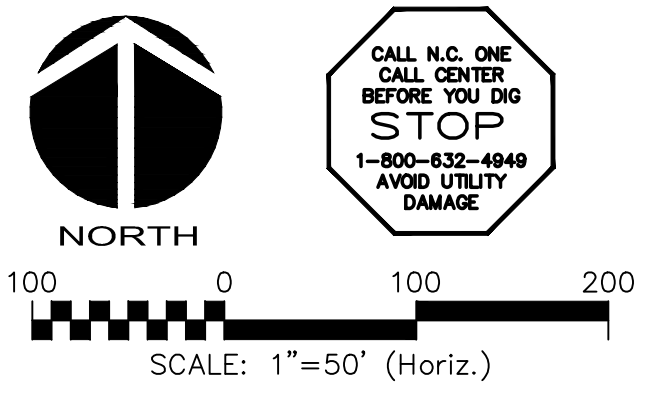
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VERTICAL:	N/A
REVISION	3

STATUS: FINAL DRAWINGS

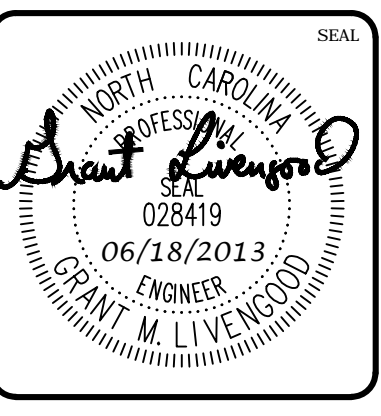
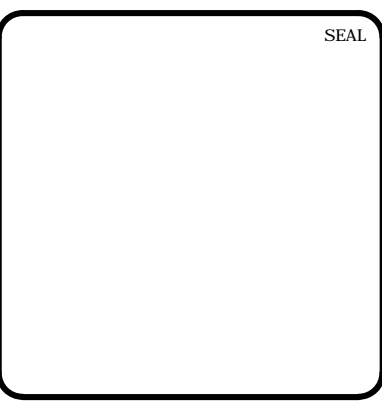


PLAN FOR REFERENCE ONLY

- LEGEND:**
- TEMPORARY CONSTRUCTION ENTRANCE
 - RIPRAP OUTLET PROTECTION
 - COMBINATION SILT/TREE PROTECTION FENCE
 - TREE PROTECTION FENCE
 - TEMPORARY DIVERSION DITCH
 - EXISTING CONTOUR
 - PROPOSED CONTOUR
 - EX. LIMITS OF DISTURBANCE
 - NEW PROJECT LIMITS
 - SEDIMENT BASIN BAFFLE
 - CHECK DAM



REV. NO.	DESCRIPTIONS / REVISIONS	DATE
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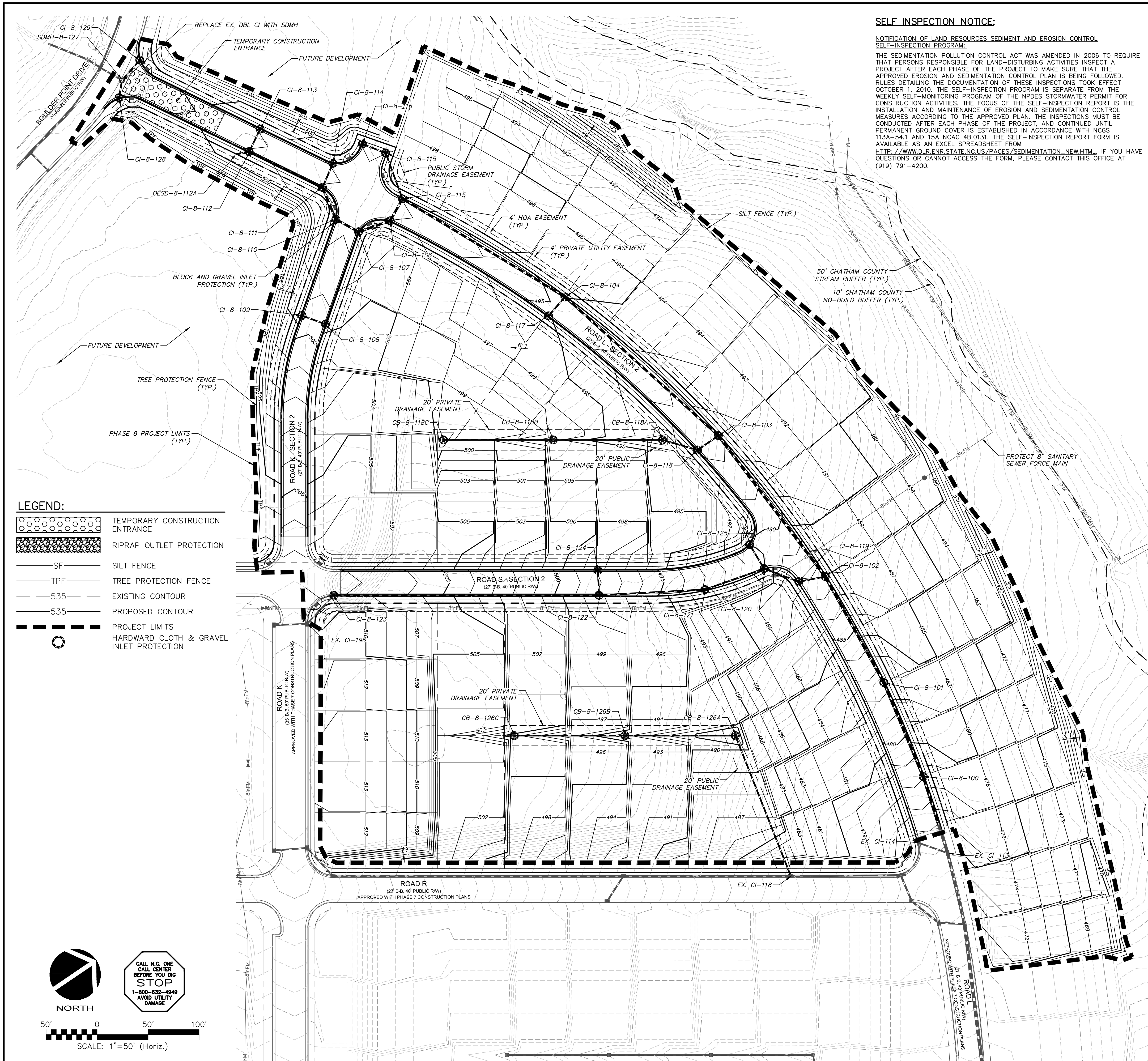


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**BRIAR CHAPEL
 PHASE 8
 CHATHAM COUNTY, NORTH CAROLINA**
**STAGE 1
 EROSION CONTROL PLAN**

DATE: MAY 21, 2013	SCALE: 1" = 50'	FILE NUMBER: C3.1
MCE PROJ. # 02735-0092	HORIZONTAL: 1" = 50'	DRAWING NUMBER: C3.1
DRAWN: GCA	VERTICAL: N/A	
DESIGNED: GCA		
CHECKED: CHS		
PROJ. MGR: CHS		
STATUS: FINAL DRAWINGS		REVISION: 3



LEGEND:

	TEMPORARY CONSTRUCTION ENTRANCE
	RIPRAP OUTLET PROTECTION
	SF SILT FENCE
	TPF TREE PROTECTION FENCE
	5.35 EXISTING CONTOUR
	5.35 PROPOSED CONTOUR
	PROJECT LIMITS
	HARDWARD CLOTH & GRAVEL INLET PROTECTION

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 PHASE 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 PHASE OF THE PROJECT, AND CONTINUED UNTIL PERMANENT GROUND COVER IS ESTABLISHED IN ACCORDANCE WITH NCCS 113A-54.1 AND 15A NCCS 4B.0131. THE SELF-INSPECTION REPORT FORM IS AVAILABLE AS AN EXCEL SPREADSHEET FROM [HTTP://WWW.DLR.CMS.STATE.NC.US/PAGES/SEDIMENTATION_NEW/HTML](http://www.dlr.cms.state.nc.us/pages/SEDIMENTATION_NEW/HTML). IF YOU HAVE QUESTIONS OR CANNOT ACCESS THE FORM, PLEASE CONTACT THIS OFFICE AT (919) 791-4200.

- 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.
 - PRIOR TO CONSTRUCTION, CONTRACTOR SHALL ARRANGE AND ATTEND A PRECONSTRUCTION CONFERENCE WITH CHATHAM COUNTY, OWNER AND ENGINEER.
 - EXISTING UTILITIES AND STRUCTURES SHOWN, BOTH UNDERGROUND AND ABOVE GROUND, ARE BASED ON BEST AVAILABLE RECORD DRAWINGS.
 - 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 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.
 - CONTRACTOR IS RESPONSIBLE FOR PROTECTION OF ALL PROPERTY CORNERS AND SHALL REPLACE ALL MARKERS REMOVED IF DAMAGED DURING CONSTRUCTION.
 - CONTRACTOR IS RESPONSIBLE FOR ALL DEWATERING AS NECESSARY THROUGHOUT CONSTRUCTION.
 - CONTRACTOR IS RESPONSIBLE FOR ADHERING TO ALL PERMIT CONDITIONS, MONITORING AND REPORTING REQUIREMENTS.
 - REFER TO SHEET D-1 FOR PROPOSED ROAD CROSS SECTION DETAILS AND PAVEMENT SCHEDULE.
 - ALLEYS ARE LOCATED INSIDE 20' PRIVATE EASEMENTS. ALL OTHER STREETS WITHIN PHASE 8 SOUTH ARE INSIDE 40' PUBLIC RIGHT-OF-WAYS. EACH BIFURCATED PORTION OF BRIAR CHAPEL PARKWAY IS WITHIN A 41' PUBLIC RIGHT-OF-WAY. UNBIFURCATED PORTION OF BRIAR CHAPEL PARKWAY IS WITHIN A 50' PUBLIC RIGHT-OF-WAY.
 - GRADING AT END OF ALLEYS SHALL TIE INTO EXISTING SLOPES AT NO STEEPER THAN 2:1 (H:V) UNTIL FINAL LOT GRADING.
 - STREAM AND WETLAND LOCATIONS ARE BASED ON DELINEATIONS PROVIDED BY SOIL AND ENVIRONMENTAL CONSULTANTS IN RALEIGH, NC - CONTACT SEAN CLARK AT 919-846-5900.
 - EXISTING INFRASTRUCTURE AS SHOWN MAY BE UNDER CONSTRUCTION AND SHALL BE FIELD VERIFIED BY CONTRACTOR. REFER TO THE FOLLOWING JOHN R. MCADAMS BRIAR CHAPEL PLANS AND CONSTRUCTION BULLETINS FOR ADDITIONAL INFORMATION:
 -RECLAMATION FACILITY EROSION CONTROL PLAN, SEALED JULY 29, 2005
 -PHASE 1 CONSTRUCTION PLANS, SEALED OCT 21, 2005.
 -WEST EXTENSION GRADING PLAN (INTERIM), SEALED MAR 1, 2007.
 -PHASE 3 CONSTRUCTION PLANS, SEALED DEC 4, 2006.
 -PHASE 4 CONSTRUCTION PLANS, SEALED JAN 15, 2007.
 -WATER QUALITY PONDS 5 AND 6 CONSTRUCTION PLANS, SEALED AUG 24, 2006.
 -PUMP STATION CONSTRUCTION PLANS, DATED APR 3, 2006.
 -PHASE 4 - POD D CONSTRUCTION PLANS, SEALED SEP 17, 2007.
 -PHASE 3 & 4 EROSION CONTROL PLANS, SEALED JULY 26, 2007.

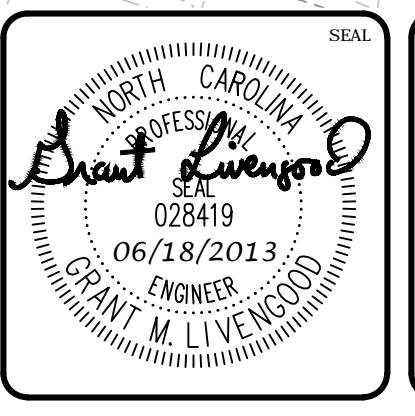
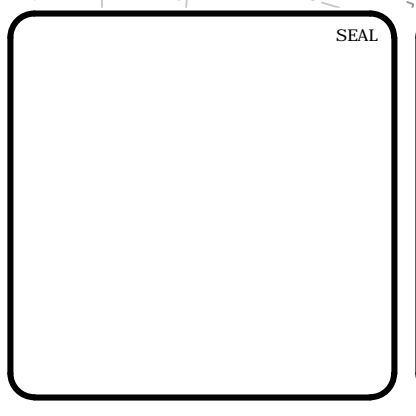
- CONSTRUCTION SEQUENCE:**
- THE INTENT OF THE CONSTRUCTION SEQUENCE IS TO PROVIDE THE CONTRACTOR WITH A GENERAL GUIDE FOR CONSTRUCTION PURPOSES. THIS SEQUENCE IS NOT INTENDED TO OUTLINE ALL CONSTRUCTION ACTIVITIES ON THIS PROJECT.
 - ALL EROSION CONTROL MEASURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH 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 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 "NC 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.
 - INSTALL TEMPORARY CONSTRUCTION ENTRANCE.
 - INSTALL TREE PROTECTION AND SILT FENCING AS SHOWN AND DETAILED ON PLAN. CLEAR ONLY AS NECESSARY TO INSTALL THESE DEVICES.
 - INSTALL INLET PROTECTION DEVICES AS DETAILED IN THESE PLANS ON EXISTING STRUCTURES ALONG BRIAR CHAPEL PARKWAY.
 - CONSTRUCT TEMPORARY SKIMMER SEDIMENT BASINS TO THE REQUIRED DIMENSIONS AND ELEVATIONS AS DETAILED IN THESE PLANS. CLEAR ONLY AS NECESSARY TO INSTALL THE BASINS. 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.
 - 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.
 - CONSTRUCT CHATHAM COUNTY SOIL EROSION & SEDIMENTATION AT 919-846-8339 AND ENGINEER UPON COMPLETION OF INITIAL EROSION CONTROL MEASURES.
 - ONCE CHATHAM COUNTY HAS APPROVED THESE MEASURES, THE CONTRACTOR SHALL BEGIN CLEARING AND GRUBBING WITHIN THE LIMITS OF DISTURBANCE FOR SECTION 1.
 - THE CONTRACTOR SHALL REMOVE ALL ROOT MATTER AND ORGANICS FROM WITHIN THE CLEARING LIMITS.
 - THE CONTRACTOR SHALL BEGIN STRIPPING TOPSOIL. STOCKPILE TOPSOIL AT LOCATION DIRECTED BY OWNER.
 - BEGIN GRADING OPERATIONS.
 - MAINTAIN AND PROTECT ALL EXISTING UTILITIES AT ALL TIMES.
 - CONTRACTOR IS TO MAINTAIN ALL THE DIVERSION DITCHES, BASINS, SILT FENCE AND OTHER EROSION CONTROL MEASURES UNTIL THEY ARE APPROVED TO BE REMOVED.
 - INSTALL STORM SEWER PIPE AND SANITARY SEWER PIPE AS SHOWN ON PLANS WITH EROSION CONTROL MEASURES TO ELIMINATE SILT FROM ENTERING STORM PIPE SYSTEM.
 - AS FINAL GRADES AND SLOPES ARE ESTABLISHED, THE CONTRACTOR SHALL SEED, MULCH AND INSTALL ROLLED EROSION CONTROL PRODUCTS ON SLOPES GREATER THAN 10 FEET IN HEIGHT.
 - IF STANDING WATER OCCURS AND IS NOT ABLE TO BE DRAINED TO ESTABLISHED EROSION CONTROL MEASURES, CONTRACTOR SHALL PUMP WATER TO DIRECT TO NEAREST EROSION CONTROL MEASURE.
 - CONTINUE WITH GRADING OPERATIONS FOR STREETS AND RESIDENTIAL LOTS.
 - AFTER SECTION 1 IS STABILIZED, GRADING OPERATIONS CAN OCCUR WITHIN SECTION 2. AND AFTER SECTION 2 IS STABILIZED, GRADING OPERATIONS CAN OCCUR WITHIN SECTION 3.
 - INSTALL ANY REMAINING STORM SEWER PIPE AND UNDERGROUND UTILITIES.
 - ONCE STORM DRAIN SYSTEM IS OPERATIONAL TO CONVEY RUNOFF TO TEMPORARY SKIMMER SEDIMENT BASIN #6 AND CONTRIBUTING AREA HAS ESTABLISHED GROUND COVER, WITH APPROVAL FROM CHATHAM COUNTY, REMOVE BAFFLES, SKIMMER AND MUCK OUT SEDIMENT AND CONVERT TO FINAL BMP #9.
 - COMPLETE CONSTRUCTION OF ROAD BEDS AND SHOULDERS. INSTALL ABC STONE IN ROAD BEDS AND CURB AND GUTTER.
 - INSTALL INITIAL PAVING AS SHOWN ON PLANS.
 - CARRY OUT FINAL GRADING. RESPREAD TOPSOIL IN ACCORDANCE WITH PROJECT SPECIFICATIONS.
 - 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.
 - REMOVE TEMPORARY CONSTRUCTION ENTRANCE AS NEEDED TO INSTALL FINAL PAVING.
 - INSTALL FINAL PAVING AS SHOWN ON THE PLANS.
 - AFTER PROJECT AREA IS COMPLETELY STABILIZED, REMOVE ALL TEMPORARY MEASURES AND INSTALL PERMANENT VEGETATION AS REQUIRED AND ON ANY RESULTING BARE AREAS.

- 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.
 A-2000 PVC FOR PRIVATE STORM LINES WITHIN PRIVATE ALLEYS. ALL STORM DRAINAGE CONSTRUCTION FOR A-2000 PVC SHALL BE IN ACCORDANCE WITH PIPE MANUFACTURER'S SPECIFICATIONS. PIPE JOINTS SHALL BE WATER TIGHT PER ASTM D3212. PIPS AND FITTINGS SHALL BE INSTALLED PER AASHTO SECTION 30 AND AASHTO SECTION 12.
 - 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.
 - RIM ELEVATIONS FOR GRATE INLETS WITHIN ALLEYS SHALL MATCH INITIAL LIFT OF BINDER COURSE. AT TIME OF FINAL SURFACE LIFT OF ASPHALT, CONTRACTOR SHALL RAISE GRATE INLET TOPS TO MATCH FLUSH WITH FINAL SURFACE PAVEMENT ELEVATION.
 - 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 840.22 ON SHEET D-3.
 - 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-3.

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.
- TOTAL DISTURBED AREA: 24.7 ACRES

REV. NO.	DESCRIPTIONS	DATE
3	REVISED PER NCDOT COMMENTS	2013.06.18
2	REVISED PER CHATHAM COUNTY REVIEW	2013.06.03
1	1ST SUBMITTAL TO REVIEW AGENCIES	2013.05.21

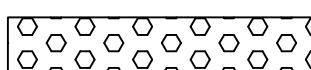
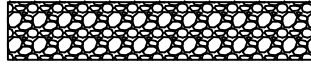
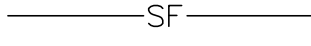

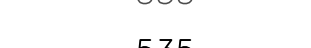





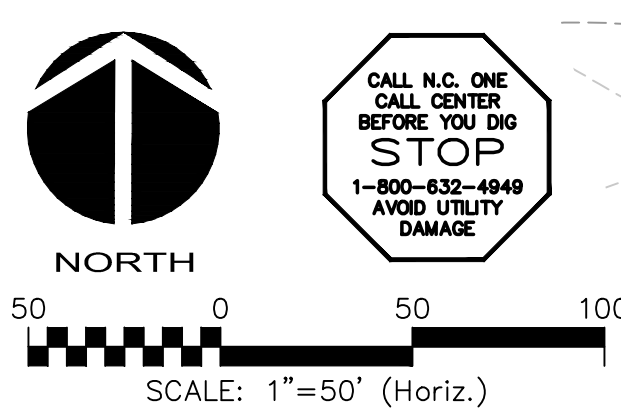
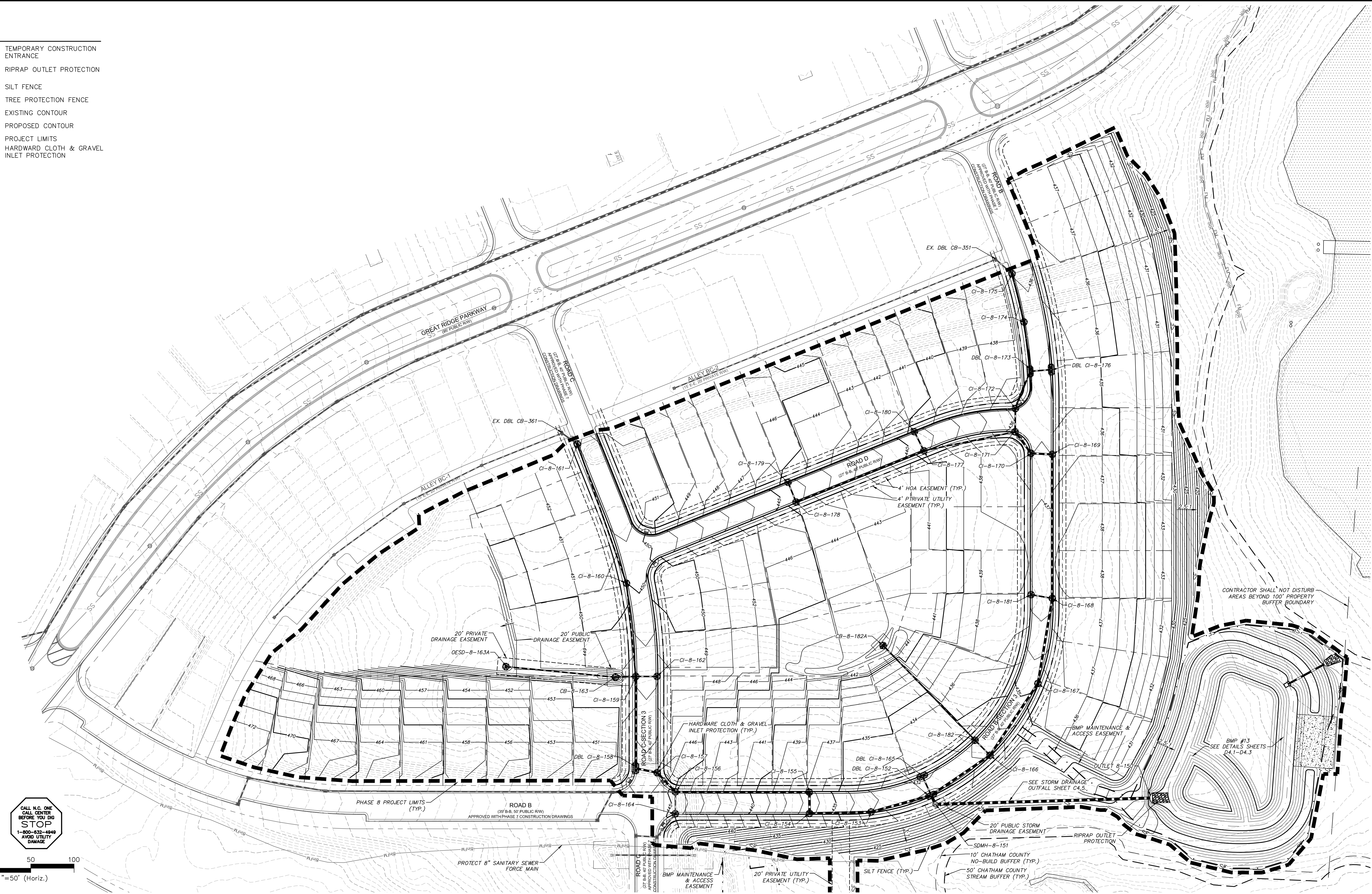
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BRIAR CHAPEL™
 by Newland COMMUNITIES

**BRIAR CHAPEL
 PHASE 8
 CHATHAM COUNTY, NORTH CAROLINA**
**GRADING, DRAINAGE &
 EROSION CONTROL PLAN**

DATE: MAY 21, 2013	SCALE: HORIZONTAL: 1" = 50'	PROJECT # 02735-0092	SCALE: VERTICAL: N/A	MFC FILE NUMBER: CR103
DRAWN: GCA	DESIGNED: GCA	CHECKED: CHS	PROJ. MGR.: CHS	DRAWING NUMBER: C3.2
STATUS: FINAL DRAWINGS				REVISION: 3

- LEGEND:**
-  TEMPORARY CONSTRUCTION ENTRANCE
 -  RIPRAP OUTLET PROTECTION
 -  SF SILT FENCE
 -  TPF TREE PROTECTION FENCE
 -  535 EXISTING CONTOUR
 -  535 PROPOSED CONTOUR
 -  PROJECT LIMITS
 -  HARDWARE CLOTH & GRAVEL INLET PROTECTION



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AVOID UTILITY DAMAGE

CONTRACTOR SHALL NOT DISTURB
AREAS BEYOND 100' PROPERTY
BUFFER BOUNDARY

BMP #13
SEE DETAILS SHEETS
D4.1-D4.3

SEE STORM DRAINAGE
OUTFALL SHEET C4.5.

20' PUBLIC STORM
DRAINAGE EASEMENT
SDMH-8-151
10' CHATHAM COUNTY
NO-BUILD BUFFER (TYP.)
50' CHATHAM COUNTY
STREAM BUFFER (TYP.)

REV. NO.	DESCRIPTIONS	DATE
3	REVISED PER NCDOT COMMENTS	2013.06.18
2	REVISED PER CHATHAM COUNTY REVIEW	2013.06.03
1	1ST SUBMITTAL TO REVIEW AGENCIES	2013.05.21

SEAL



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 CHATHAM COUNTY, NORTH CAROLINA**

**GRADING, DRAINAGE &
 EROSION CONTROL PLAN**

DATE: MAY 21, 2013	SCALE: 1" = 50'	M&C FILE NUMBER: CR103
M&C PROJ. # 02735-0092	HORIZONTAL: 1" = 50'	DRAWING NUMBER: C3.3
DRAWN: GCA	VERTICAL: N/A	
DESIGNED: GCA		
CHECKED: CHS		
PROJ. MGR: CHS		
STATUS: FINAL DRAWINGS	REVISION: 3	