

**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 AFTER RAINFALL EVENTS. 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.

**STAGE 1 CONSTRUCTION SEQUENCE (CONT.):**

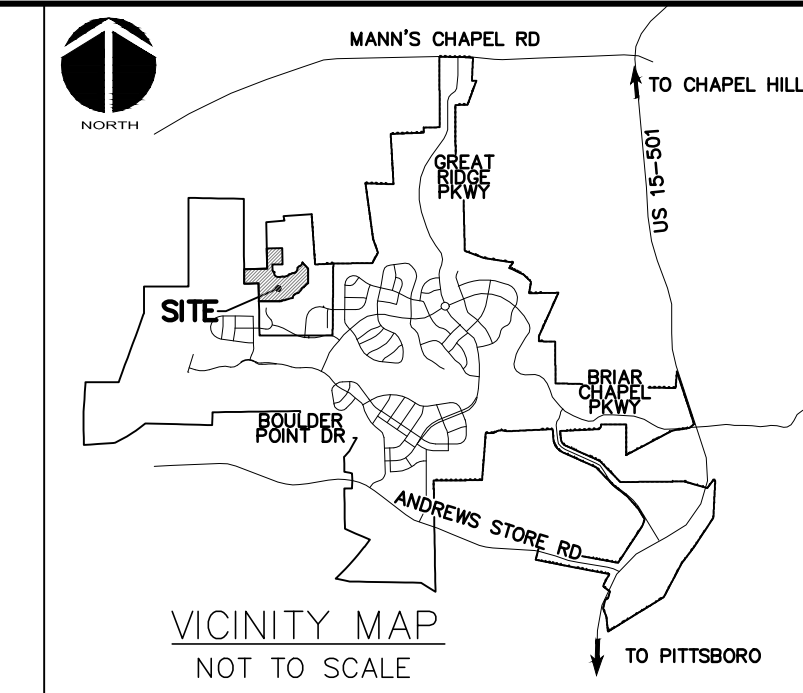
6. CONTRACTOR SHALL ARRANGE PRE-CONSTRUCTION MEETING WITH THE OWNER'S REPRESENTATIVE, ENGINEER AND CHATHAM COUNTY.
7. OBTAIN LETTER OF PLAN APPROVAL FOR SEDIMENTATION AND EROSION CONTROL FROM CHATHAM COUNTY SOIL EROSION & SEDIMENTATION CONTROL.
8. CONTRACTOR TO POST EROSION CONTROL PERMIT PROMINENTLY 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 'NC ONE CALL' TO HAVE UTILITIES LOCATED.
10. CONTRACTOR TO HAVE A PROFESSIONAL LAND SURVEYOR FLAG PROPERTY LINES, EASEMENTS, LANDSCAPE BUFFERS, STREAM BUFFERS, TREE PROTECTION AREAS AND LIMITS OF DISTURBANCE.
11. INSTALL TEMPORARY CONSTRUCTION ENTRANCES. CONTRACTOR SHALL ONLY ACCESS SITE THROUGH BRIAR CHAPEL PARKWAY ENTRANCE. NO CONSTRUCTION TRAFFIC SHALL USE PHASE 6N ACCESS FROM CLIFFDALE FOR CONSTRUCTION ACTIVITIES.
12. INSTALL TREE PROTECTION FENCING AND SILT FENCING AS SHOWN AND DETAILED ON PLAN. TIMBER ONLY AS NECESSARY TO INSTALL THESE DEVICES.

**STAGE 1 CONSTRUCTION SEQUENCE (CONT.):**

13. CONSTRUCT TEMPORARY SKIMMER SEDIMENT BASINS & TEMPORARY SEDIMENT TRAPS 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.
14. 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.
15. CONSTRUCT 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.
16. CONTACT CHATHAM COUNTY SOIL EROSION & SEDIMENTATION AT 919-542-8628 AND ENGINEER UPON COMPLETION OF INITIAL EROSION CONTROL MEASURES.
17. ONCE TEMPORARY SKIMMER SEDIMENT BASINS AND DIVERSION DITCHES HAVE BEEN INSTALLED, GRUB WITHIN DELINEATED DRAINAGE AREAS ASSOCIATED WITH THE INSTALLED TEMPORARY SKIMMER SEDIMENT BASINS.

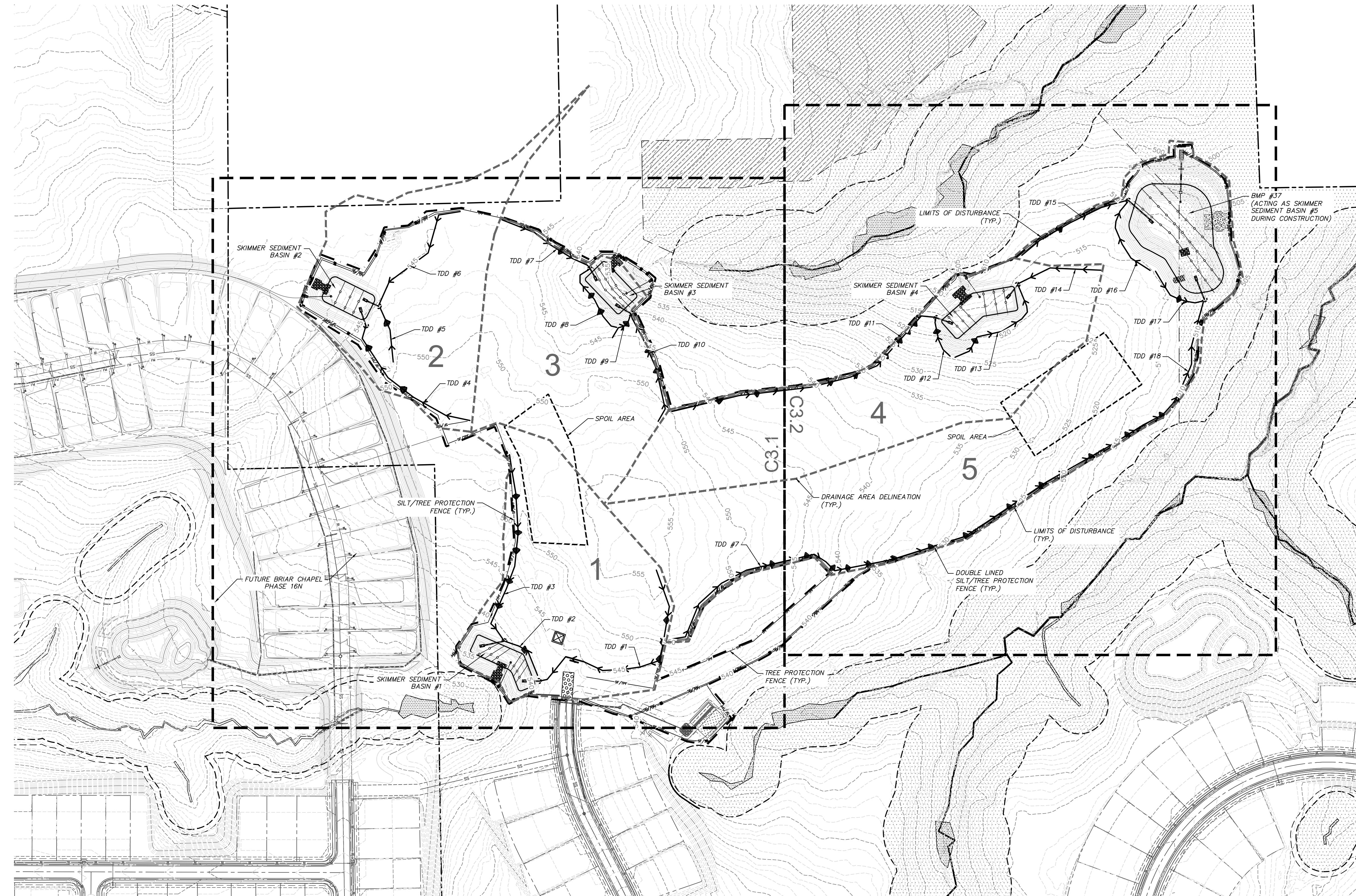
**STAGE 1 CONSTRUCTION SEQUENCE (CONT.):**

18. 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.
19. 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.
20. BEGIN ROUGH GRADING WITHIN CLEARING LIMITS, INCLUDING GRADING FOR PERMANENT WET DETENTION POND.
21. 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.
22. PERFORM SEEDING AND MULCHING AS REQUIRED IN ACCORDANCE WITH THE PLANS.
23. 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.



**US STEEL SEC. 2 DRAINAGE AREAS**

DRAINAGE AREA NUMBER	TOTAL AREA WITHIN DRAINAGE AREA
1	2.77 ACRES
2	2.73 ACRES
3	2.69 ACRES
4	3.68 ACRES
5	6.41 ACRES



**LEGEND:**

- TEMPORARY CONSTRUCTION ENTRANCE
- RIPRAP OUTLET PROTECTION
- EXISTING WETLANDS
- 10' NO BUILD BUFFER LINE
- RIPARIAN BUFFER LINE
- EX. COMBINATION SILT/TREE PROTECTION FENCE
- EX. TEMPORARY DIVERSION DITCH
- EX. CONTOUR
- EX. LIMITS OF DISTURBANCE
- COMBINATION SILT/TREE PROTECTION FENCE
- TEMPORARY DIVERSION DITCH
- LIMITS OF DISTURBANCE
- PROPOSED CONTOUR
- SEDIMENT BASIN BAFFLE
- ARC PIPE INLET PROTECTION
- CHECK DAM
- EXISTING CHECK DAM
- DRAINAGE AREA
- DRAINAGE AREA DELINEATION
- SILT FENCE OUTLET

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

NORTH

SCALE: 1"=100' (Horiz.)

REV. NO.	DESCRIPTIONS / REVISIONS	DATE
2	REVISED PER NCDOT COMMENTS	2018.05.07
1	REVISED PER CHATHAM COUNTY EROSION CONTROL AND STORMWATER	2018.05.04
0	INITIAL SUBMITTAL	2018.04.11

SEAL

PROFESSIONAL ENGINEER  
 David R. Reed  
 036348  
 05/04/2018  
 ENGINEER

**MCKIM & CREED**

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 Newland COMMUNITIES

**BRIAR CHAPEL  
 US STEEL - SECTION 2  
 CHATHAM COUNTY, NORTH CAROLINA**

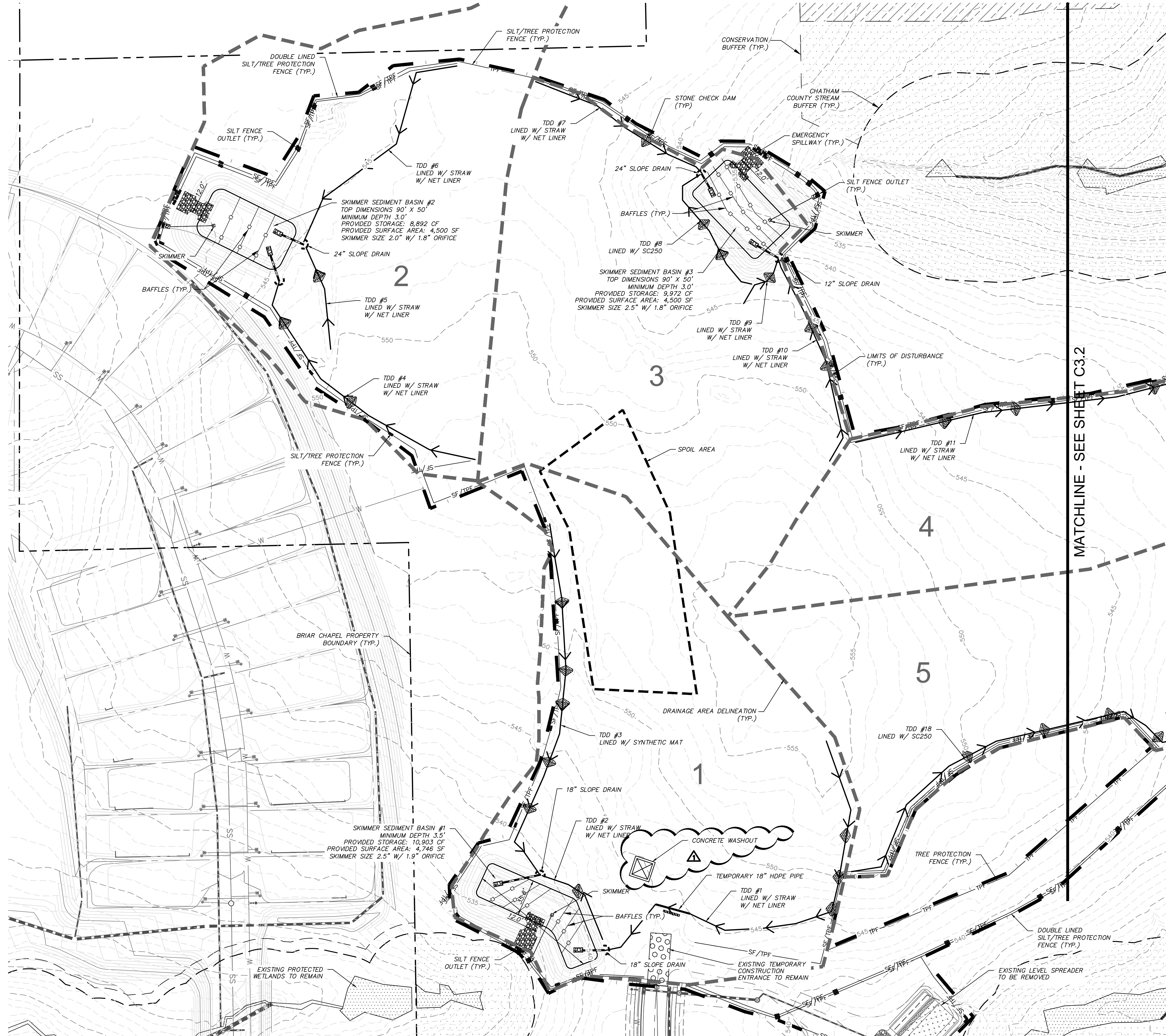
**OVERALL STAGE 1 EROSION CONTROL PLAN**

DATE: APRIL 11, 2018  
 MCE PROJ. # 02735-0206  
 DRAWN: LEG  
 DESIGNED: LEG  
 CHECKED: GCA  
 PROJ. MGR.: CHS

SCALE: HORIZONTAL: 1" = 100'  
 VERTICAL: N/A

M&C FILE NUMBER: C3.X  
 DRAWING NUMBER: C3.0

STATUS: FINAL DRAWINGS FOR REVIEW PURPOSES ONLY  
 REVISION: 2

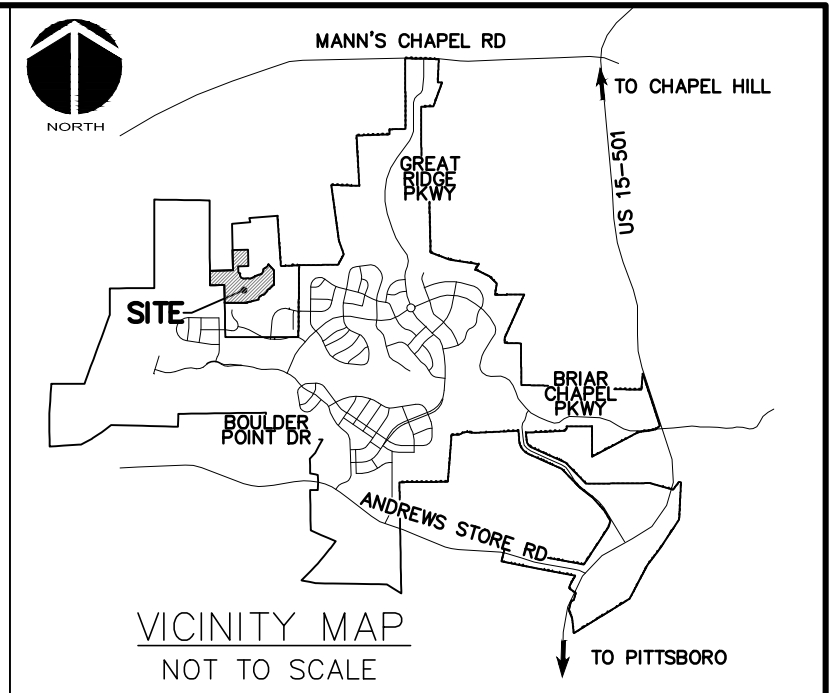


**LIMITS OF DISTURBANCE NOTES:**

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 BEYOND PREVIOUSLY APPROVED AREAS: x.xx ACRES.

**EROSION CONTROL NOTES:**

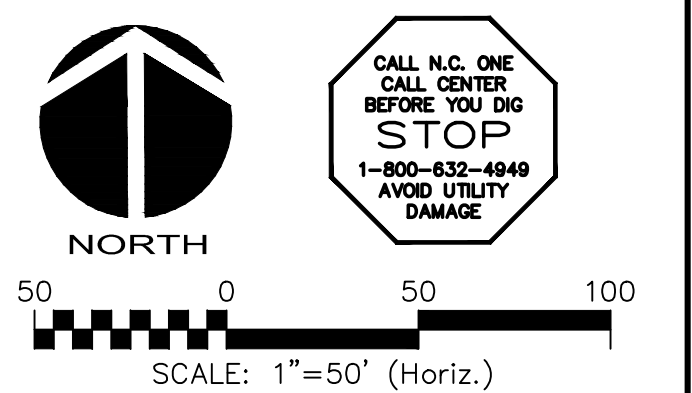
1. PRIOR TO BEGINNING CONSTRUCTION, AN ON SITE PRE-CONSTRUCTION MEETING SHALL BE HELD. CHATHAM COUNTY OFFICIALS, THE ENGINEER, OWNER'S REPRESENTATIVE AND CONTRACTOR MUST ATTEND. NOTICE MUST BE GIVEN 48 HOURS NOTICE PRIOR TO SCHEDULING.
2. THE CONTRACTOR IS TO NOTIFY CHATHAM COUNTY PUBLIC WORKS REPRESENTATIVES 48 HOURS PRIOR TO COMMENCING WITH LAND DISTURBING ACTIVITIES.
3. 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.
4. 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.
5. PERMANENT OR TEMPORARY SOIL STABILIZATION SHALL BE APPLIED TO DENUDED AREAS WITHIN FOURTEEN DAYS AFTER FINAL GRADE IS REACHED ON ANY PORTION OF THE SITE, SEVEN DAYS WHERE SLOPES ARE 3:1 OR STEEPER. TEMPORARY SOIL STABILIZATION SHALL BE APPLIED WITHIN SEVEN DAYS TO DENUDED AREAS THAT MAY NOT BE AT FINAL GRADE BUT WILL REMAIN DORMANT (UNDISTURBED) FOR LONGER THAN 30 DAYS. PERMANENT STABILIZATION SHALL BE APPLIED TO AREAS THAT ARE LEFT TO BE DORMANT FOR MORE THAN ONE YEAR.
6. THE CONTRACTOR SHALL INSPECT ALL EROSION CONTROL MEASURES ONCE PER WEEK AND AFTER EVERY HALF INCH OF RAINFALL. 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.
7. 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.



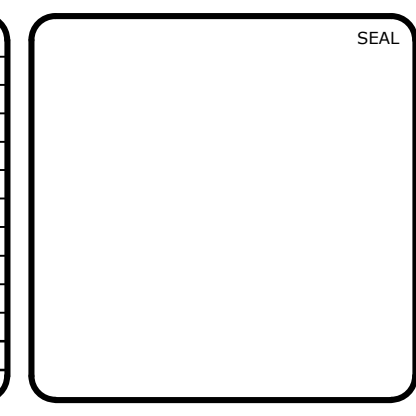
NPDES GROUNDCOVER STABILIZATION TIMEFRAMES		
SITE AREA DESCRIPTION	STABILIZATION	TIMEFRAME EXCEPTIONS
PERIMETER DIKES, SWALES, DITCHES, SLOPES	7 DAYS	NONE
HIGH QUALITY WATER (HQW) ZONES	7 DAYS	NONE
SLOPES STEEPER THAN 3:1	7 DAYS	14 DAYS FOR SLOPES 10' OR LESS IN LENGTH AND NOT STEEPER THAN 2:1
SLOPES 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

**LEGEND:**

	TEMPORARY CONSTRUCTION ENTRANCE
	RIPRAP OUTLET PROTECTION
	EXISTING WETLANDS
	10' NO BUILD BUFFER LINE
	RIPARIAN BUFFER LINE
	EX. COMBINATION SILT/TREE PROTECTION FENCE
	EX. TEMPORARY DIVERSION DITCH
	EX. CONTOUR
	EX. LIMITS OF DISTURBANCE
	COMBINATION SILT/TREE PROTECTION FENCE
	TEMPORARY DIVERSION DITCH
	LIMITS OF DISTURBANCE
	PROPOSED CONTOUR
	SEDIMENT BASIN BAFFLE
	ARC PIPE INLET PROTECTION
	CHECK DAM
	EXISTING CHECK DAM
	DRAINAGE AREA
	DRAINAGE AREA DELINEATION
	SILT FENCE OUTLET



REV. NO.	DESCRIPTION	DATE
2	REVISED PER NCDOT COMMENTS	2018.05.07
1	REVISED PER CHATHAM COUNTY EROSION CONTROL AND STORMWATER	2018.05.04
0	INITIAL SUBMITTAL	2018.04.11



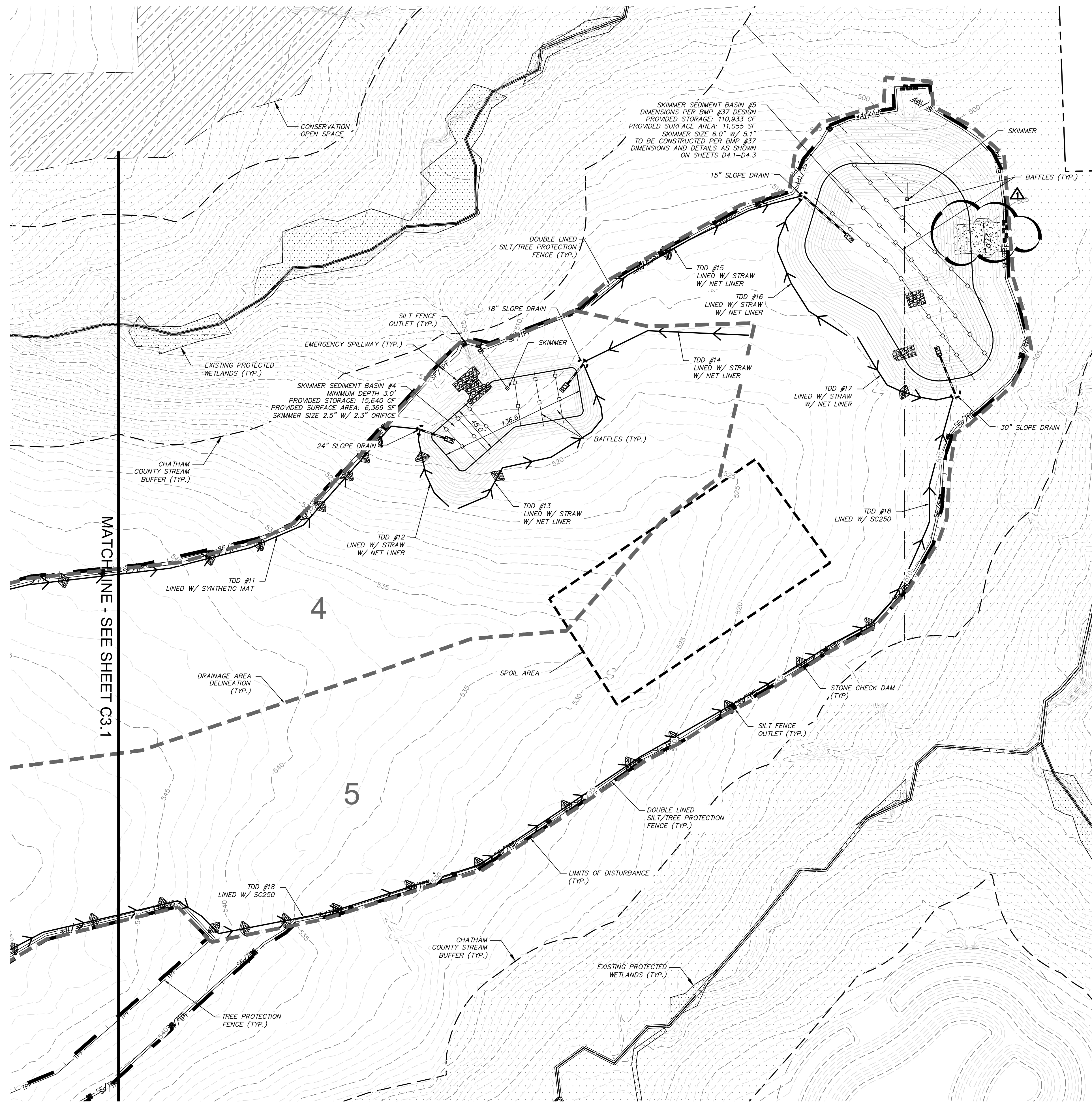
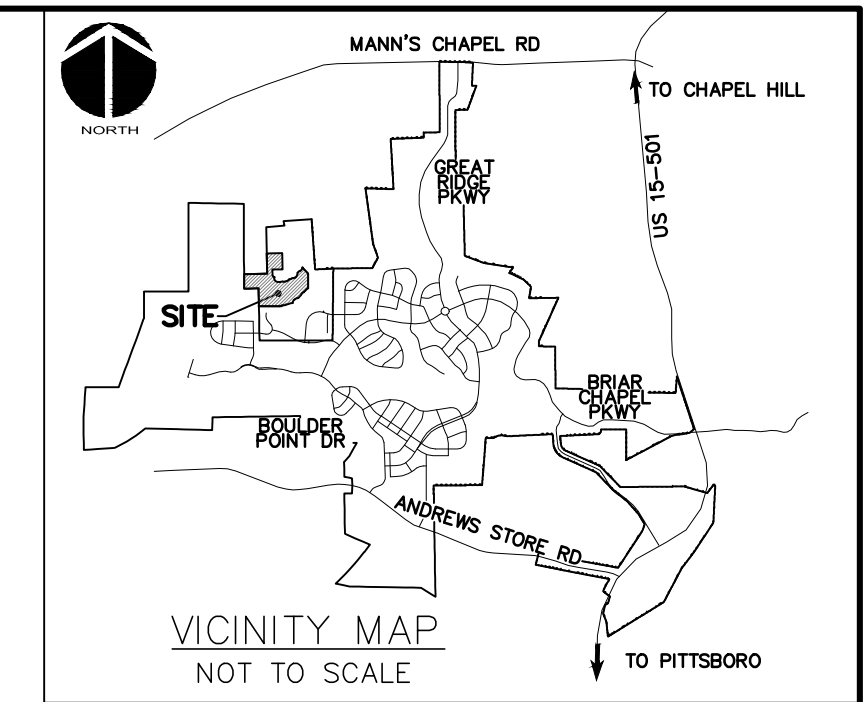
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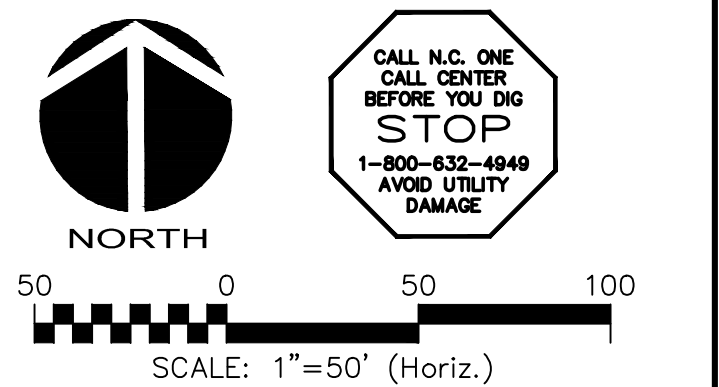
**STAGE 1 EROSION CONTROL PLAN**

DATE: APRIL 11, 2018	SCALE: C3.X	PRIC FILE NUMBER: C3.1
MCE PROJ. # 02735-0206	HORIZONTAL: 1" = 50'	DRAWING NUMBER: C3.1
DRAWN: LEG	VERTICAL: N/A	
DESIGNED: LEG		
CHECKED: GCA		
PROJ. MGR: CHS		
STATUS: FINAL DRAWINGS FOR REVIEW PURPOSES ONLY	REVISION: 2	

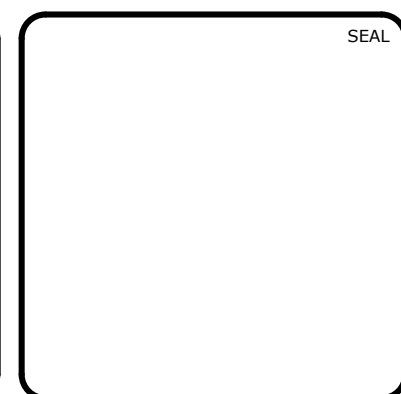


**LEGEND:**

	TEMPORARY CONSTRUCTION ENTRANCE
	RIPRAP OUTLET PROTECTION
	EXISTING WETLANDS
	10' NO BUILD BUFFER LINE
	RIPARIAN BUFFER LINE
	EX. COMBINATION SILT/TREE PROTECTION FENCE
	EX. TEMPORARY DIVERSION DITCH
	EX. CONTOUR
	EX. LIMITS OF DISTURBANCE
	COMBINATION SILT/TREE PROTECTION FENCE
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	PROPOSED CONTOUR
	SEDIMENT BASIN BAFFLE
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	CHECK DAM
	EXISTING CHECK DAM
	DRAINAGE AREA
	DRAINAGE AREA DELINEATION
	SILT FENCE OUTLET



REV. NO.	DESCRIPTIONS / REVISIONS	DATE
2	REVISED PER NCDOT COMMENTS	2018.05.07
1	REVISED PER CHATHAM COUNTY EROSION CONTROL AND STORMWATER	2018.05.04
0	INITIAL SUBMITTAL	2018.04.11



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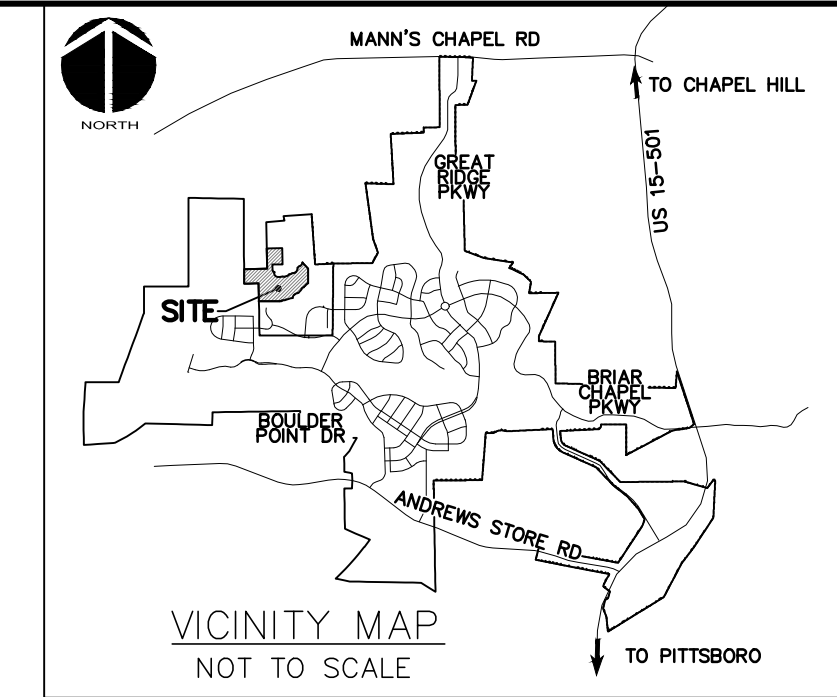
**STAGE 1 EROSION CONTROL PLAN**

DATE: APRIL 11, 2018	SCALE: HORIZONTAL: 1" = 50'	M&C FILE NUMBER: C3.X
M&C PROJ. # 02735-0206	DESIGNED: LEG	DRAWING NUMBER: C3.2
DRAWN: LEG	CHECKED: GCA	
PROJ. MGR.: CHS		
STATUS: FINAL DRAWINGS FOR REVIEW PURPOSES ONLY	REVISION: 2	

**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. EXISTING UTILITIES AND STRUCTURES SHOWN, BOTH UNDERGROUND AND ABOVE GROUND, ARE BASED ON BEST AVAILABLE RECORD DRAWINGS.
5. 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.
6. 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.
7. GRADED SLOPES STEEPER THAN 3:1 SHALL BE STABILIZED WITH CURLEX SINGLE NET (CURLEX I) MATTING BY AMERICAN EXCELSIOR COMPANY OR APPROVED EQUAL.
8. CONTRACTOR IS RESPONSIBLE FOR PROTECTION OF ALL PROPERTY CORNERS AND SHALL REPLACE ALL MARKERS REMOVED IF DAMAGED DURING CONSTRUCTION.
9. CONTRACTOR IS RESPONSIBLE FOR DEWATERING AS NECESSARY THROUGHOUT CONSTRUCTION.
10. CONTRACTOR IS RESPONSIBLE FOR ADHERING TO ALL PERMIT CONDITIONS, MONITORING AND REPORTING REQUIREMENTS.
11. STREAM AND WETLAND LOCATIONS ARE BASED ON DELINEATIONS PROVIDED BY WETLAND AND NATURAL RESOURCES CONSULTANTS - CONTACT CHRIS HUYSMAN AT 336-406-0906.
12. NO PORTION OF THIS PROPERTY IS LOCATED IN SPECIAL FLOOD HAZARD AREA "AE" AS SHOWN ON FEMA FIRM MAP #3710976500K DATED NOVEMBER 17, 2017.

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

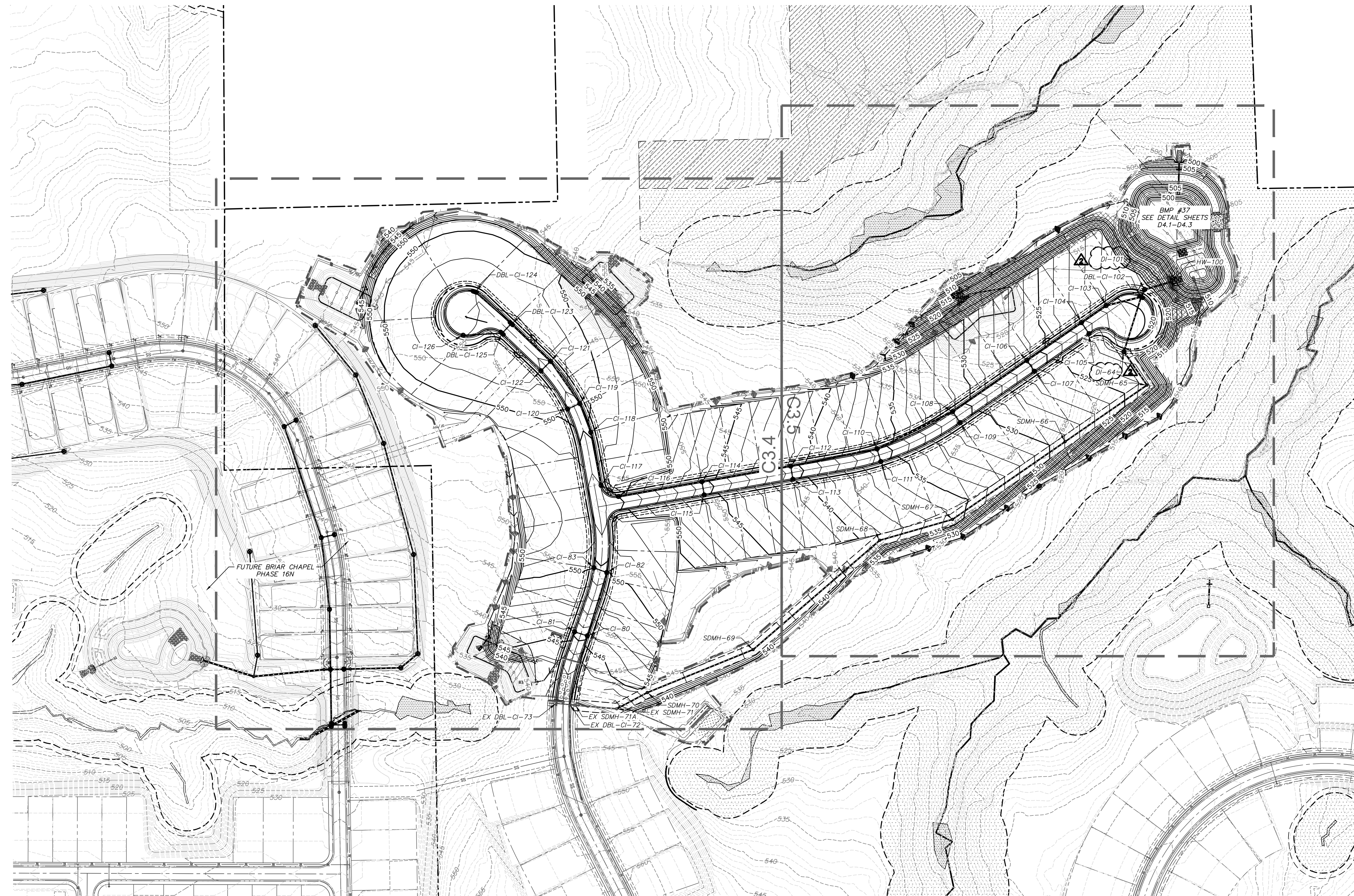


**LIMITS OF DISTURBANCE NOTES:**

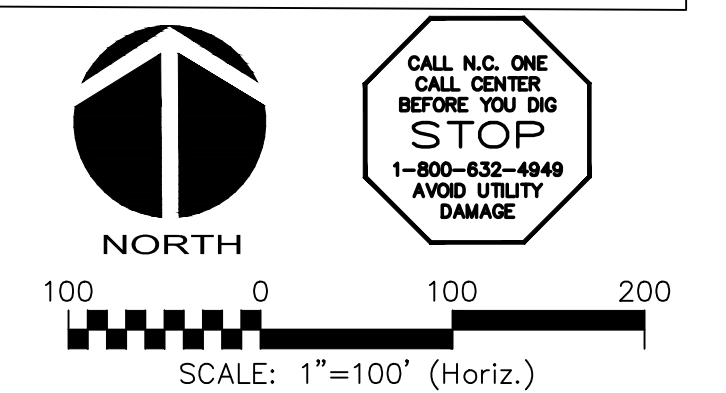
1. LIMITS OF DISTURBANCE LINES ARE CLEARING LIMIT LINES WHICH WILL BE FLAGGED FOR A MINIMUM OF ONE PER 50-FT OR CLOSER DEPENDING ON VISIBILITY.
2. SILT FENCE AND TREE PROTECTION FENCE LINES ALSO DELINEATE THE LIMITS OF DISTURBANCE. ALL SILT FENCING OR TREE PROTECTION FENCING SHALL BE INSTALLED INSIDE LIMITS OF DISTURBANCE.
3. 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:**

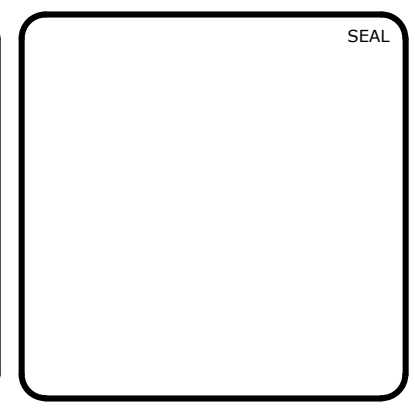
NOTIFICATION OF LAND RESOURCES SEDIMENT AND EROSION CONTROL SELF-INSPECTION PROGRAM:  
 THE SEDIMENTATION POLLUTION CONTROL ACT WAS AMENDED IN 2006 TO REQUIRE THAT PERSONS RESPONSIBLE FOR LAND-DISTURBING ACTIVITIES INSPECT A PROJECT AFTER EACH STAGE OF THE PROJECT TO MAKE SURE THAT THE APPROVED EROSION 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 NCCS 113A-54.1 AND 15A NCA 48.0131. THE SELF-INSPECTION REPORT FORM IS AVAILABLE AS AN EXCEL SPREADSHEET FROM [HTTP://WWW.DNR.STATE.NC.US/PAGES/SEDIMENTATION\\_NEWHTML](http://www.dnr.state.nc.us/pages/SEDIMENTATION_NEWHTML). IF YOU HAVE QUESTIONS OR CANNOT ACCESS THE FORM, PLEASE CONTACT THIS OFFICE AT (919) 791-4200.



LEGEND:	
	TEMPORARY CONSTRUCTION ENTRANCE
	RIPRAP OUTLET PROTECTION
	EXISTING WETLANDS
	10' NO BUILD BUFFER LINE
	RIPARIAN BUFFER LINE
	EX. COMBINATION SILT/TREE PROTECTION FENCE
	EX. TEMPORARY DIVERSION DITCH
	EX. CONTOUR
	EX. LIMITS OF DISTURBANCE
	COMBINATION SILT/TREE PROTECTION FENCE
	TEMPORARY DIVERSION DITCH
	LIMITS OF DISTURBANCE
	PROPOSED CONTOUR
	SEDIMENT BASIN BAFFLE
	ARC PIPE INLET PROTECTION
	CHECK DAM
	EXISTING CHECK DAM
	SILT FENCE OUTLET
	INLET PROTECTION
	RECP MATTING



REV. NO.	DESCRIPTIONS / REVISIONS	DATE
2	REVISED PER NCCOY COMMENTS	2018.05.07
1	REVISED PER CHATHAM COUNTY EROSION CONTROL AND STORMWATER	2018.05.04
0	INITIAL SUBMITTAL	2018.04.11



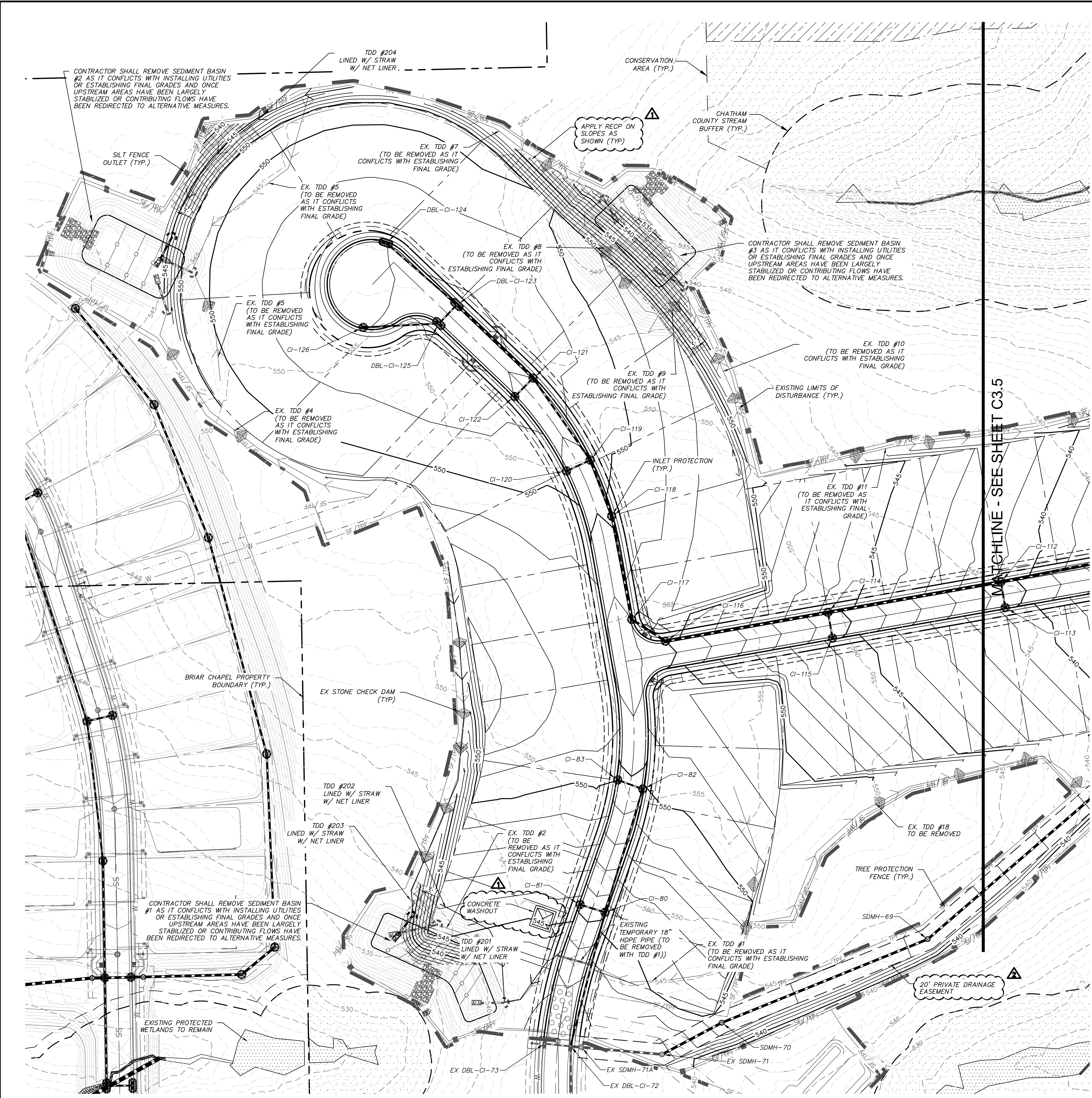
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 US STEEL - SECTION 2  
 CHATHAM COUNTY, NORTH CAROLINA**

**OVERALL STAGE 2 EROSION CONTROL PLAN**

DATE: APRIL 11, 2018	SCALE: HORIZONTAL: 1" = 100'	M&C FILE NUMBER: C3.X
MCE PROJ. # 02735-0206	VERTICAL: N/A	DRAWING NUMBER: C3.3
DRAWN: LEG		
DESIGNED: LEG		
CHECKED: GCA		
PROJ. MGR.: CHS		
STATUS: FINAL DRAWINGS FOR REVIEW PURPOSES ONLY	REVISION: 2	



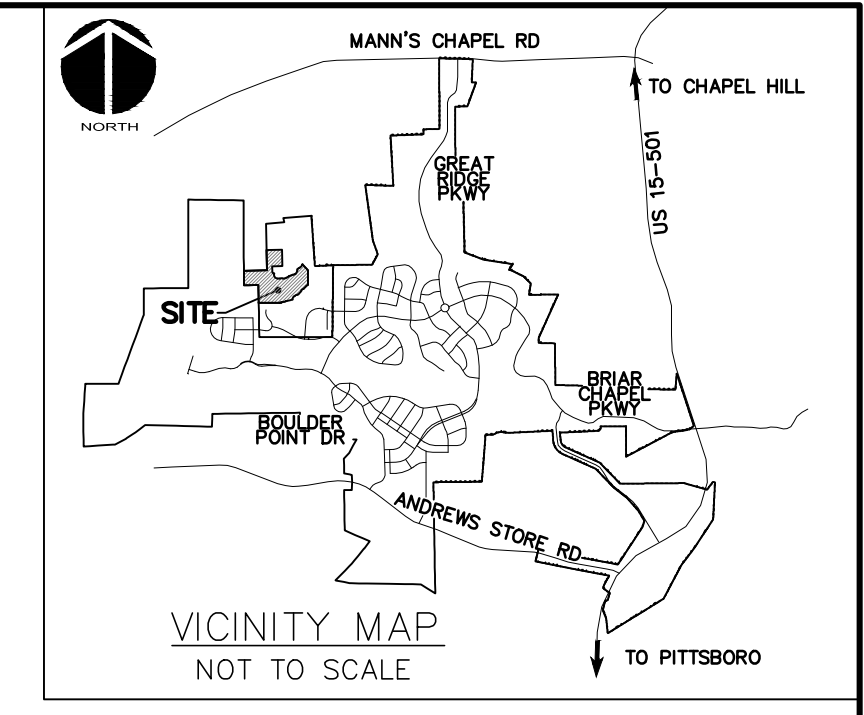
**STAGE 2 CONSTRUCTION SEQUENCE:**

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 AFTER RAINFALL EVENTS. 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 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
6. SLOPES ARE AS DEFINED IN THE CHATHAM COUNTY SOIL EROSION AND SEDIMENTATION CONTROL ORDINANCE.
7. CONTRACTOR SHALL ARRANGE PRE-CONSTRUCTION MEETING WITH THE OWNER'S REPRESENTATIVE, ENGINEER AND CHATHAM COUNTY.
8. OBTAIN LETTER OF PLAN APPROVAL FOR SEDIMENTATION AND EROSION CONTROL FROM CHATHAM COUNTY SOIL EROSION & SEDIMENTATION CONTROL.
9. CONTRACTOR TO POST EROSION CONTROL PERMIT PROMINENTLY ON SITE AT ALL TIMES.
10. CONTRACTOR TO HAVE A PROFESSIONAL LAND SURVEYOR FLAG PROPERTY LINES, EASEMENTS, LANDSCAPE BUFFERS, STREAM BUFFERS, TREE PROTECTION AREAS AND LIMITS OF DISTURBANCE.
11. INSTALL TEMPORARY CONSTRUCTION ENTRANCES. CONTRACTOR SHALL ONLY ACCESS SITE THROUGH BRIAR CHAPEL PARKWAY ENTRANCE. NO CONSTRUCTION TRAFFIC SHALL USE PHASE 6N ACCESS FROM OLDFIELD FOR CONSTRUCTION ACTIVITIES.
12. INSTALL ADDITIONAL TREE PROTECTION FENCING AND SILT FENCING AS SHOWN AND DETAILED ON PLAN. TIMBER ONLY AS NECESSARY TO INSTALL THESE DEVICES.
13. CONSTRUCT BMP #37 FOR USE AS TEMPORARY SKIMMER SEDIMENT BASINS TO THE REQUIRED DIMENSIONS AND ELEVATIONS AS DETAILED IN DETAIL SHEETS D4.1 TO D4.4. 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.
14. 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.
15. CONSTRUCT 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.
16. CONTACT CHATHAM COUNTY SOIL EROSION & SEDIMENTATION AT 919-545-8339 AND ENGINEER UPON COMPLETION OF INITIAL EROSION CONTROL MEASURES.
17. ONCE TEMPORARY SKIMMER SEDIMENT BASINS AND DIVERSION DITCHES HAVE BEEN INSTALLED, GRUB WITHIN DELINEATED DRAINAGE AREAS ASSOCIATED WITH THE INSTALLED TEMPORARY SKIMMER SEDIMENT BASINS.
18. 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.
19. 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.
20. BEGIN ROUGH GRADING WITHIN CLEARING LIMITS, INCLUDING GRADING FOR PERMANENT WET DETENTION POND.
21. 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.
22. PERFORM SEEDING AND MULCHING AS REQUIRED IN ACCORDANCE WITH THE PLANS.
23. 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.

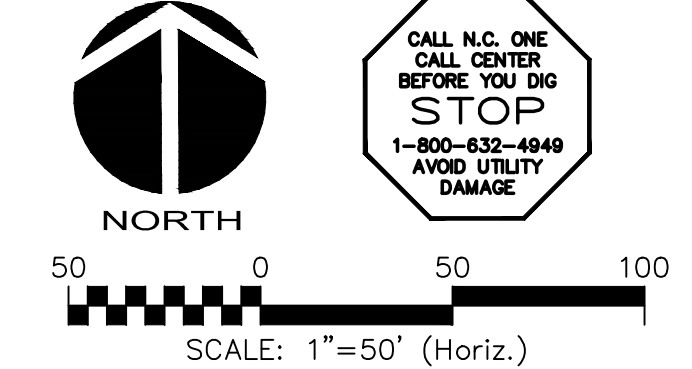
**STORM DRAINAGE NOTES:**

1. 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.
2. ALL CONCRETE SHALL MEET A MINIMUM 3,000 PSI COMPRESSIVE STRENGTH.
3. ALL PIPE IN STORM DRAIN STRUCTURES SHALL BE STRUCK EVEN WITH INSIDE WALL.
4. 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.
5. 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.
6. MATERIALS DEEMED AS UNSUITABLE FOR BACKFILL PURPOSES BY THE OWNER'S REPRESENTATIVE SHALL BE REMOVED AND REPLACED WITH SUITABLE MATERIAL.
7. 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.
8. UNDER NO CIRCUMSTANCES SHALL WATER BE ALLOWED TO RISE IN UNBACKFILLED TRENCHES AFTER PIPE HAS BEEN PLACED.
9. 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.
10. RIM ELEVATIONS OF STORM DRAIN STRUCTURES SHALL BE FIELD VERIFIED.
11. STORM DRAINAGE WITHIN PRIVATE EASEMENTS TO BE OWNED, OPERATED AND MAINTAINED BY HOME OWNER'S ASSOCIATION OR AGENT THEREOF.
12. 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.
13. 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.

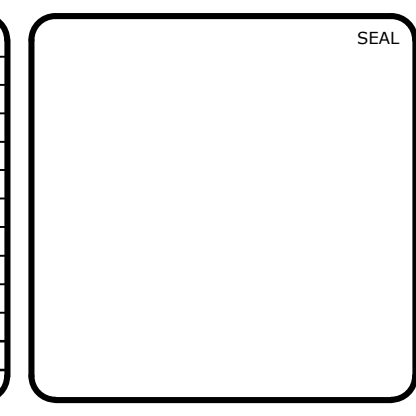


**LEGEND:**

	TEMPORARY CONSTRUCTION ENTRANCE
	RIPRAP OUTLET PROTECTION
	EXISTING WETLANDS
	10' NO BUILD BUFFER LINE
	RIPARIAN BUFFER LINE
	EX. COMBINATION SILT/TREE PROTECTION FENCE
	EX. TEMPORARY DIVERSION DITCH
	EX. CONTOUR
	EX. LIMITS OF DISTURBANCE
	COMBINATION SILT/TREE PROTECTION FENCE
	TEMPORARY DIVERSION DITCH
	LIMITS OF DISTURBANCE
	PROPOSED CONTOUR
	SEDIMENT BASIN BAFFLE
	ARC PIPE INLET PROTECTION
	CHECK DAM
	EXISTING CHECK DAM
	SILT FENCE OUTLET
	INLET PROTECTION
	RECP MATTING



REV. NO.	DESCRIPTION	DATE
2	REVISED PER NCDOT COMMENTS	2018.05.07
1	REVISED PER CHATHAM COUNTY EROSION CONTROL AND STORMWATER	2018.05.04
0	INITIAL SUBMITTAL	2018.04.11



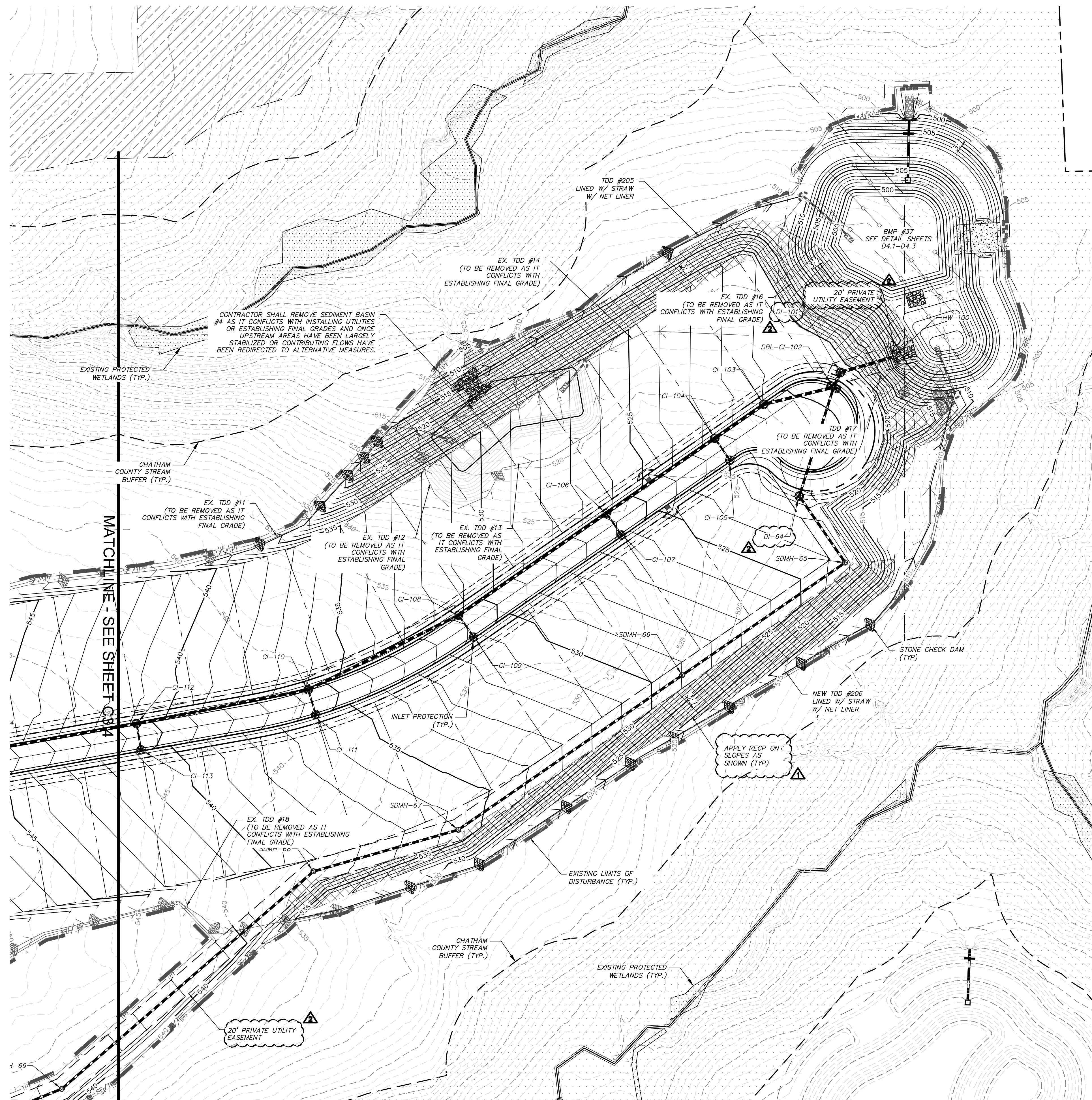
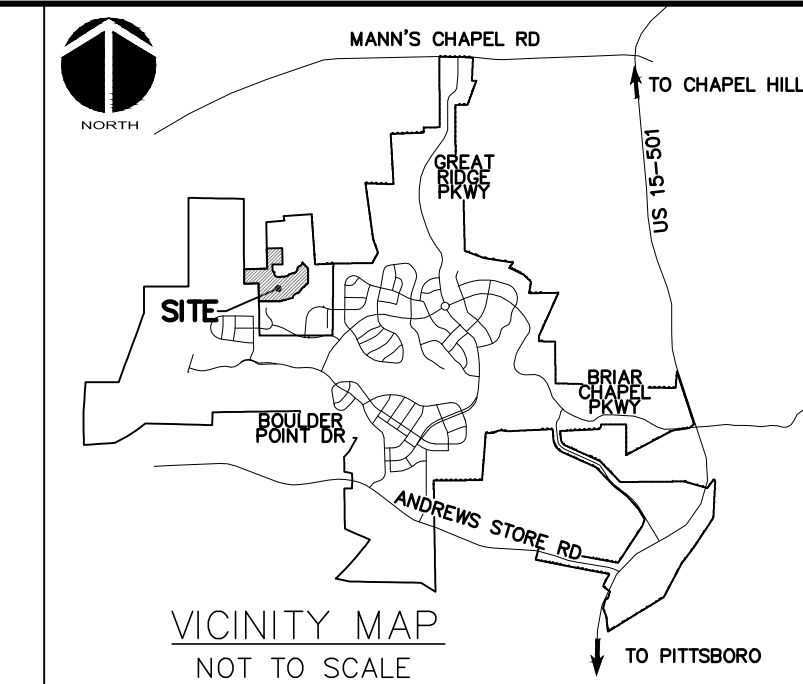
**MCKIM & CREED**  
 1730 Varsity Drive, Suite 500  
 Raleigh, North Carolina 27606  
 Phone: (919)233-8091, Fax: (919)233-8031  
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 CHATHAM COUNTY, NORTH CAROLINA**

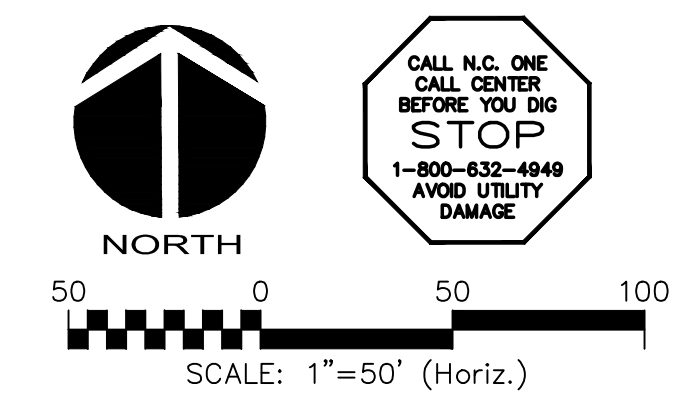
**STAGE 2 EROSION CONTROL PLAN**

DATE: APRIL 11, 2018	SCALE: 1"=50'	PROJECT NUMBER: C3.X
MCE PROJ. #: 02735-0206	HORIZONTAL: 1"=50'	DRAWING NUMBER: C3.4
DRAWN: LEG	VERTICAL: N/A	
DESIGNED: LEG		
CHECKED: GCA		
PROJ. MGR.: CHS		
STATUS: FINAL DRAWINGS FOR REVIEW PURPOSES ONLY	REVISION: 2	

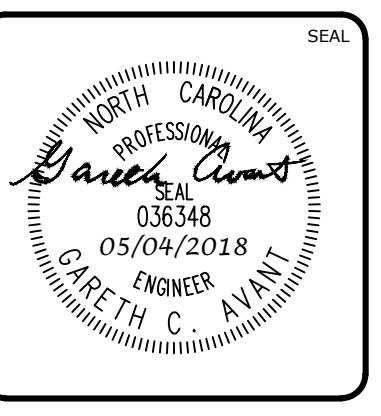
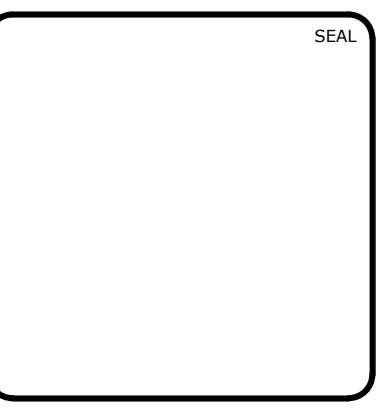


**LEGEND:**

	TEMPORARY CONSTRUCTION ENTRANCE
	RIPRAP OUTLET PROTECTION
	EXISTING WETLANDS
	10' NO BUILD BUFFER LINE
	RIPARIAN BUFFER LINE
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	EX. TEMPORARY DIVERSION DITCH
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	EX. LIMITS OF DISTURBANCE
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	TEMPORARY DIVERSION DITCH
	LIMITS OF DISTURBANCE
	PROPOSED CONTOUR
	SEDIMENT BASIN BAFFLE
	ARC PIPE INLET PROTECTION
	CHECK DAM
	EXISTING CHECK DAM
	SILT FENCE OUTLET
	INLET PROTECTION
	RECP MATTING



REV. NO.	DESCRIPTIONS / REVISIONS	DATE
2	REVISED PER NCDOT COMMENTS	2018.05.07
1	REVISED PER CHATHAM COUNTY EROSION CONTROL AND STORMWATER	2018.05.04
0	INITIAL SUBMITTAL	2018.04.11



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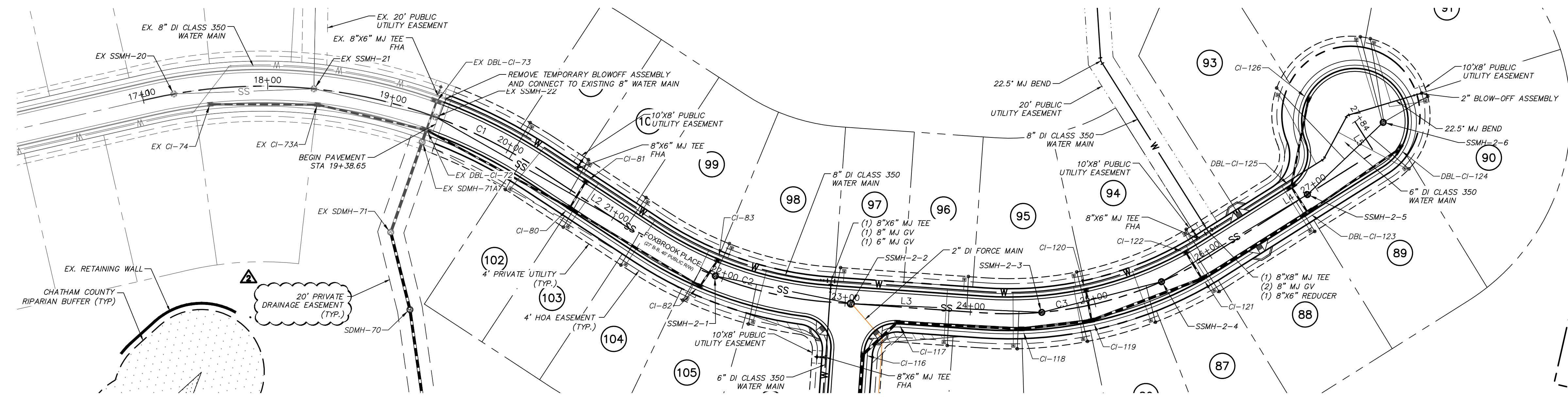
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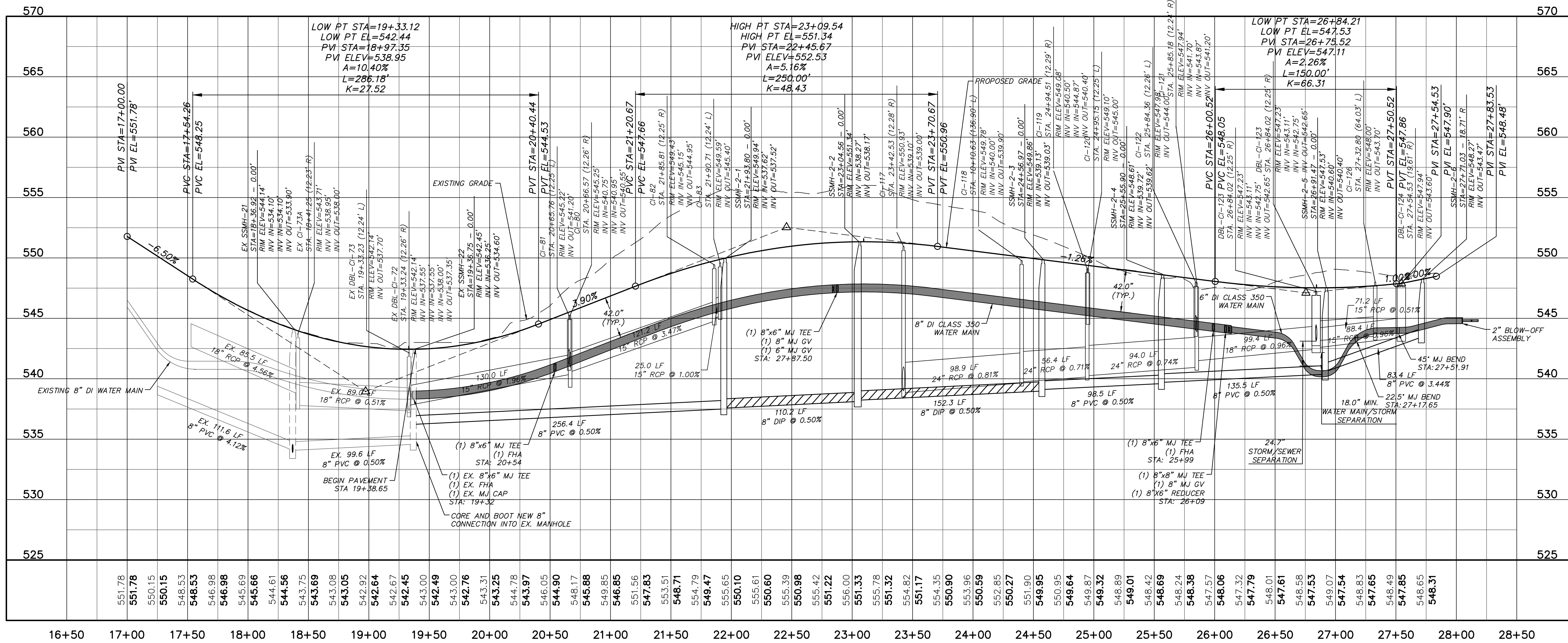
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CHATHAM COUNTY, NORTH CAROLINA**

**STAGE 2 EROSION CONTROL PLAN**

DATE: APRIL 11, 2018	SCALE: HORIZONTAL: 1" = 50'	MFC FILE NUMBER: C3.X
MCE PROJ. # 02735-0206	VERTICAL: N/A	DRAWING NUMBER: C3.5
DRAWN: LEG		
DESIGNED: LEG		
CHECKED: GCA		
PROJ. MGR.: CHS		
STATUS: FINAL DRAWINGS FOR REVIEW PURPOSES ONLY	REVISION: 2	

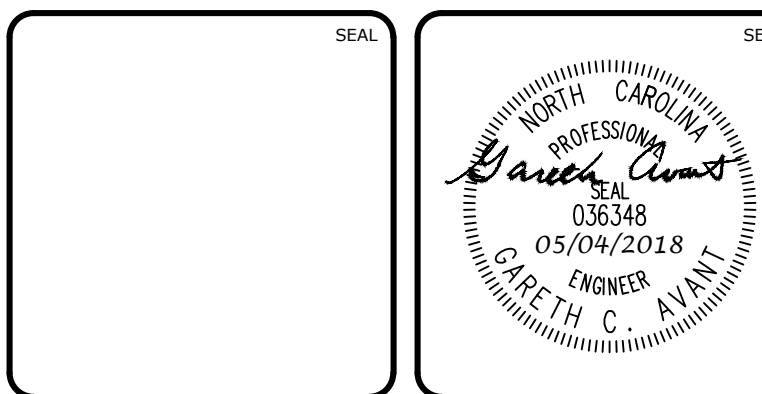


**FOX BROOK PLACE PLAN**  
 (27'B/B, 40' R/W, STA. 17+00.00 TO 27+84.00)  
 SCALE: 1"=50'



**FOX BROOK PROFILE**  
 (STA. 17+00.00 TO 27+84.00)  
 SCALE: (Horiz.) 1"=50'; (Vert.) 1"=5'

REV. NO.	DESCRIPTIONS	DATE
2	REVISED PER NCDOT COMMENTS	2018.05.07
1	REVISED PER CHATHAM COUNTY EROSION CONTROL AND STORMWATER	2018.05.04
0	INITIAL SUBMITTAL	2018.04.11



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**BRIAR CHAPEL**  
 US STEEL - SECTION 2  
 CHATHAM COUNTY, NORTH CAROLINA  
 PLAN & PROFILE  
 FOX BROOK PLACE, STA. 17+00.00 TO STA. 27+84.00

DATE: APRIL 11, 2018	SCALE: HORIZONTAL: 1" = 50' VERTICAL: 1" = 5'	MFC FILE NUMBER: C4.X
MCE PROJ. # 02735-0206		DRAWING NUMBER: C4.1
DRAWN: LEG		
DESIGNED: LEG		
CHECKED: GCA		
PROJ. MGR.: CHS		
STATUS: FINAL DRAWINGS FOR REVIEW PURPOSES ONLY		REVISION: 2