EROSION CONTROL PLANS

FOR

THE LEGACY

PHASE 3A

CHATHAM COUNTY, NORTH CAROLINA

DECEMBER, 2015
(REVISED FEBRUARY 10, 2016)

GENERAL CONSTRUCTION NOTES

1. EXISTING UNDERGROUND STRUCTURES AND UTILITIES SHOWN ARE BASED ON FIELD SURVEYS AND BEST AVAILABLE RECORD DRAWINGS. THE CONTRACTOR SHALL FIELD VERIFY CONDITIONS , INCLUDING THE HORIZONTAL AND VERTICAL LOCATION OF ALL UTILITIES, PRIOR TO STARTING CONSTRUCTION AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
2. THE CONTRACTOR SHALL CONTACT NORTH CAROLINA ONE CALL AT 1-800-632-4949. THE CONTRACTOR SHALL CALL AT LEAST 48 HOURS PRIOR TO ANY DIGGING.
3. ALL WATER UTILITY CONSTRUCTION SHALL CONFORM TO THE CHATHAM COUNTY STANDARDS AND SPECIFICATIONS.
4. ALL SANITARY SEWER UTILITY CONSTRUCTION SHALL CONFORM TO LATEST AQUA OF NORTH CAROLINA STANDARDS AND SPECIFICATIONS.
5. THE SUBJECT PROPERTY IS LOCATED IN A FLOOD HAZARD AREA PER FEMA FIRM PANEL 9773, MAP NUMBER 3710977300J, DATED 02/02/07, & FEMA FIRM PANEL 9782, MAP NUMBER 3710978200J, DATED 02/02/07.
6. AQUA PERSONNEL SHALL BE NOTIFIED 48 HOURS BEFORE CONSTRUCTION IS TO BEGIN, ANY TESTING IS SCHEDULED, OR BEFORE ANY PIPE IS COVERED.
7. ALL WATER MAINS SHALL HAVE A MINIMUM OF 3.0' OF COVER AS MEASURED FROM FINISHED GRADE AT THE LOCATION WHERE INSTALLED.
8. ALL WATER MAINS SHALL BE OVER THE PRESSURE SEWER MAIN WITH A MINIMUM OF 18" SEPARATION.
9. ALL WATER MAINS AND FORCE MAINS CROSSING UNDER STORM DRAINAGE PIPING SHALL BE CONSTRUCTED WITH ONE (1) JOINT OF DUCTILE IRON PIPE CENTERED ON THE STORM PIPE CROSSING.
10. INSTREAM WORK SHALL BE PROHIBITED FROM MARCH 15 THROUGH JUNE 30 TO MINIMIZE IMPACTS TO SPAWNING FISH.
11. TOPOGRAPHIC INFORMATION PROVIDED BY CE GROUP, INC. RALEIGH, NC. PROFILE DATA FROM FIELD SURVEY BACKGROUND TOPOGRAPHY FROM AERIAL MAPPING.
12. DISTURBANCE IS LIMITED TO NO MORE THAN 15 AC. OF GRADUAL SLOPED LAND AT ANY ONE TIME (0 - 14.9% SLOPE).
13. DISTURBANCE IS LIMITED TO NO MORE THAN 10 AC. OF MODERATELY SLOPED LAND AT ANY ONE TIME (15 - 24.9% SLOPE).
14. WHERE GRAVITY SEWER LINES ARE DIP DUE TO VERTICAL SEPARATION REQUIREMENTS, THE DIP GRAVITY SEWER LINE SEGMENTS SHALL BE HYDROSTATICALLY TESTED WITH WATER TO ENSURE JOINT TIGHTNESS.

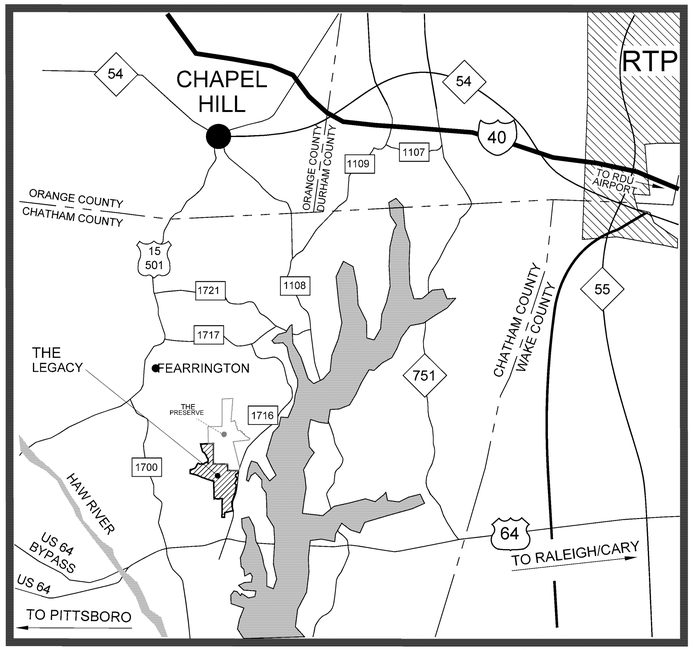
OWNER / DEVELOPER

F-L LEGACY OWNER, LLC
500 BOYLSTON ST., SUITE 1870
BOSTON, MA 02116
PHONE: 617.221.8400

SITE DATA

PIN # 9783 12 2642
ZONING: R-1 (RESIDENTIAL)
TOTAL TRACT AREA: 256.96 ACRES

PHASE 3A1 = 30 LOTS
PHASE 3A2 = 24 LOTS



VICINITY MAP
SCALE: 1 INCH = 10,000 FEET

NORTH

CE GROUP
301 GLENWOOD AVE. SUITE 220
RALEIGH,NC 27603
PHONE: 919-367-8790
www.cegroupinc.com

FINAL DESIGN
NOT RELEASED FOR CONSTRUCTION

STOP!
BEFORE YOU DIG CALL
THE NC ONE CALL CENTER
1-800-632-4949
IT'S THE LAW!

EROSION CONTROL NOTES

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MAINTENANCE: ALL EROSION AND SEDIMENT CONTROL PRACTICES TO BE INSPECTED WEEKLY AND AFTER EVERY RUNOFF PRODUCING RAINFALL EVENT. NEEDED REPAIRS WILL BE MADE IMMEDIATELY.

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TOTAL DISTURBED AREA= ***34.2 ACRES***

INDEX OF DRAWINGS

NO.	REVISIONS	DATE
2	REVISED PER CHATHAM COUNTY COMMENTS	2/10/16
1	E/C REVISIONS	1/8/16

CE GROUP
301 GLENWOOD AVE. 220
RALEIGH,NC 27603
PHONE: 919-367-8790
FAX: 919-322-0032
www.cegroupinc.com
License # C-1739

2/10/16

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 18894 MARK P. ANDREWS

THE LEGACY
PHASE 3A
EROSION CONTROL PLANS
COVER
CHATHAM COUNTY, NC

Date: DECEMBER, 2015
Scale: -
Drawn: CPM
Checked: MPA
Project No. 330-03
Computer Dwg. Name 330-03 01 Ph3A Cover

Sheet No: 1 Of -

FUTURE
PHASE 3B

N/F
PHILLIP W. CORN
PIN: 9773-81-5951
DB 568 PG. 558

N/F
JESSE O. FEARRINGTON
PIN: 9773-92-6496
DB 1494 PG. 509
PB 2003 PG. 32

PHASE 3A1

PHASE 3A2

N/F
FRANK D. HAYES JR.
PIN: 9773-95-0210
DB 1645 PG. 1172

30'
30'
100'
100'
100'
100'

8" Watermain
4" Forcemain

EXISTING
BRIDGE

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NORTH

100' 0 100' 200'
SCALE: 1" = 100' (Horiz.)

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EXISTING CONDITIONS PLAN
CHATHAM COUNTY, NC

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Computer Dwg. Name	330-03 02 Ph3A Ex Cond

Sheet No:
2
Of -

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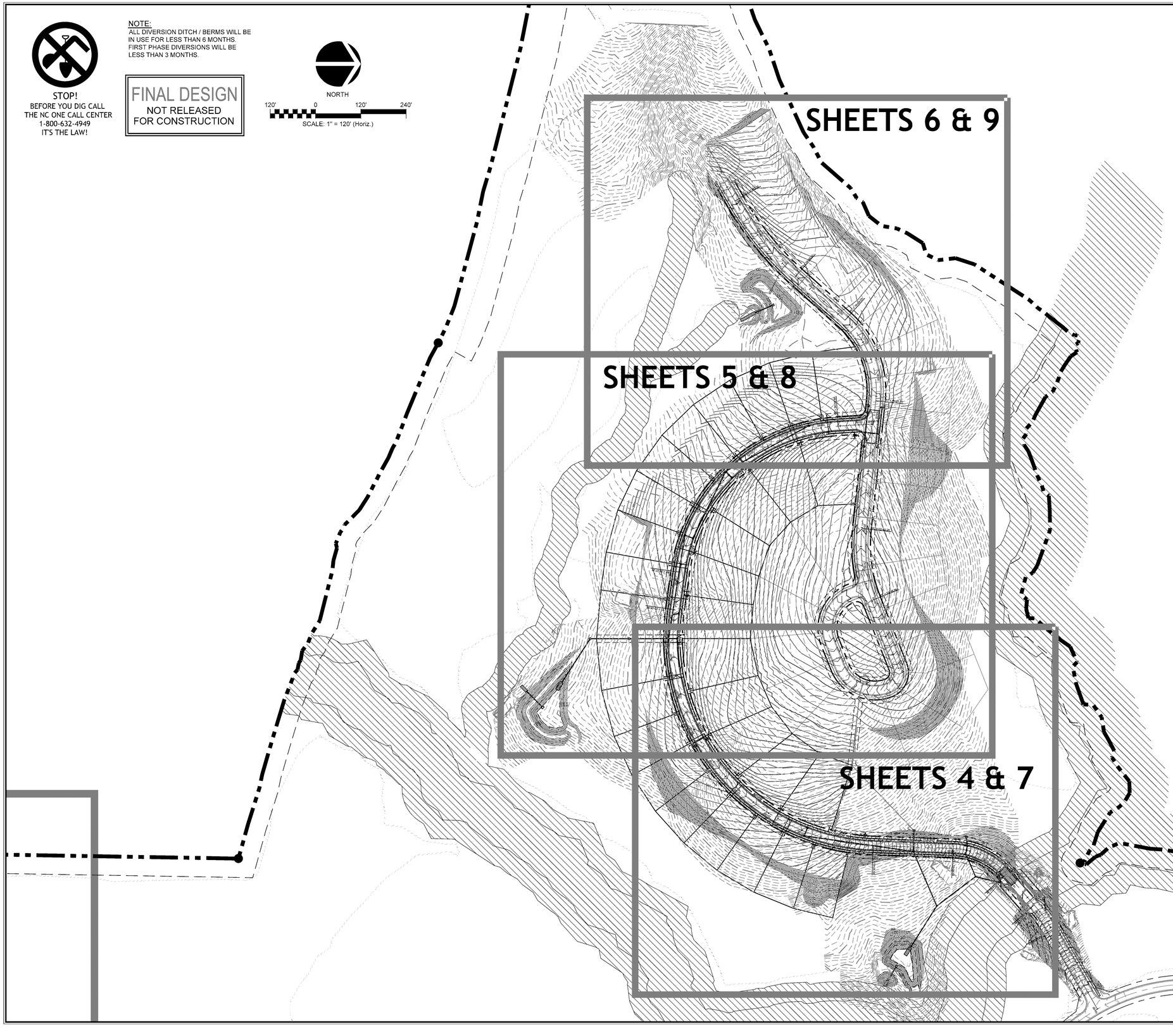
120' 0 120' 240'
SCALE: 1" = 120' (Horiz.)



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THE LEGACY PHASE 3A
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OVERALL LAYOUT
CHATHAM COUNTY, NC

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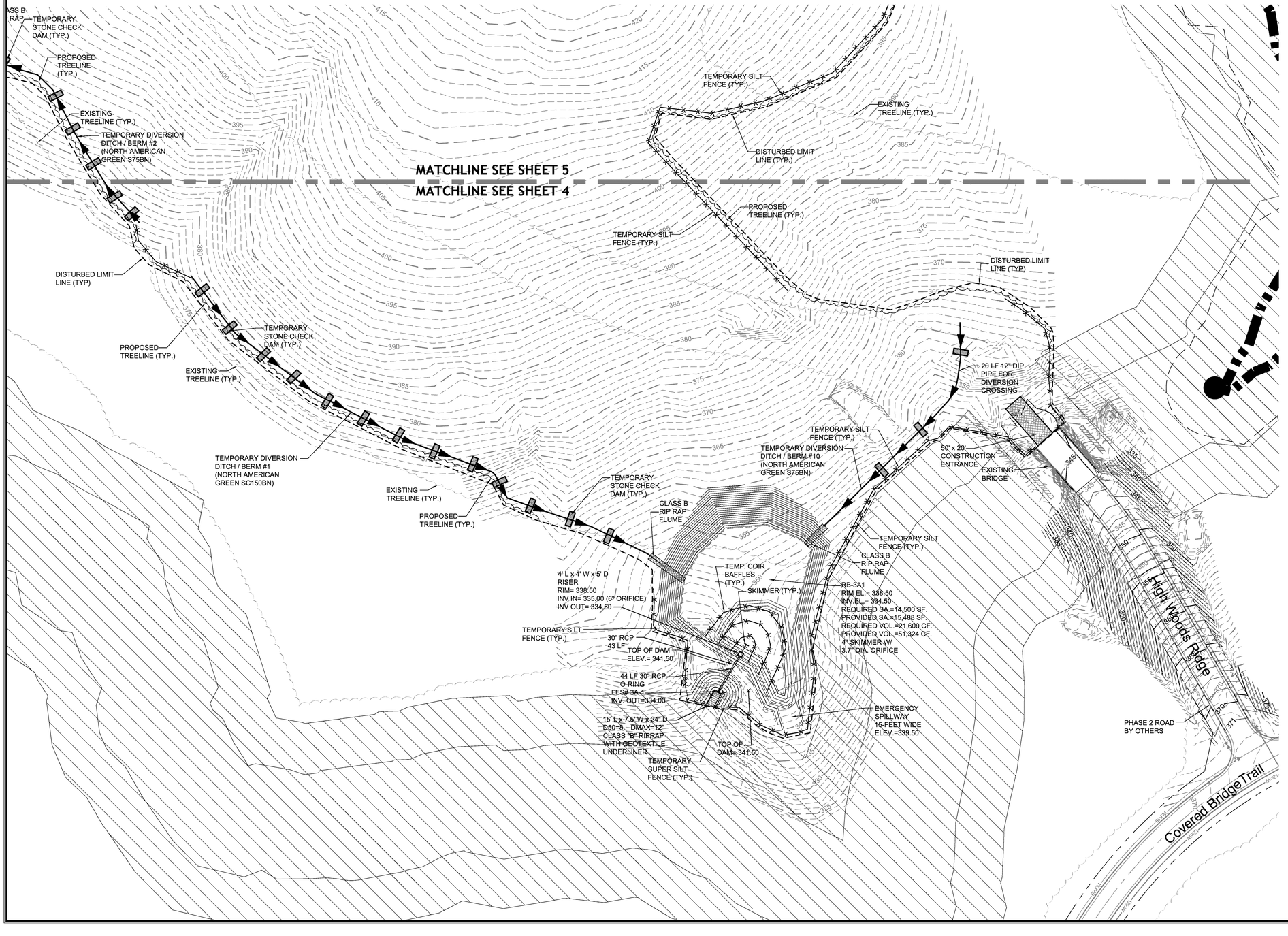
Computer Dwg. Name	330-03 03 Ph3A overall layout

Sheet No:
3
Of -



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http://portal.ncdenr.org/web/lr/erosion

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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 18894

2/10/16

THE LEGACY PHASE 3A
EROSION CONTROL PLANS FIRST STAGE PLAN
CHATHAM COUNTY, NC

Date:	DECEMBER, 2015
Scale:	1" = 50'
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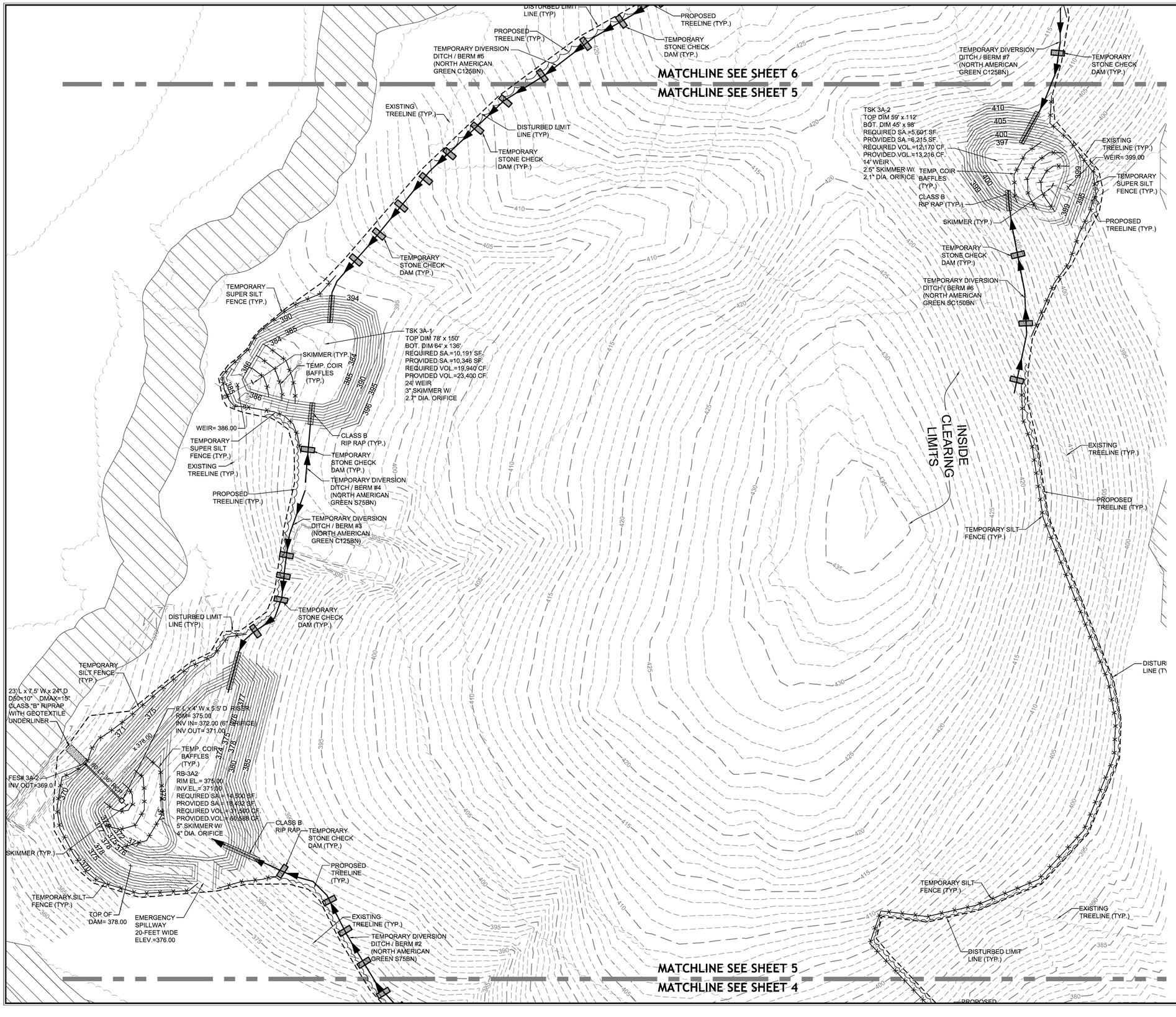
Computer Dwg. Name	330-03 04 PH3A ec plan first stage

Sheet No: 4 Of -



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SCALE: 1"=50' (Horiz.)

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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 18894

THE LEGACY PHASE 3A
EROSION CONTROL PLANS FIRST STAGE PLAN
CHATHAM COUNTY, NC

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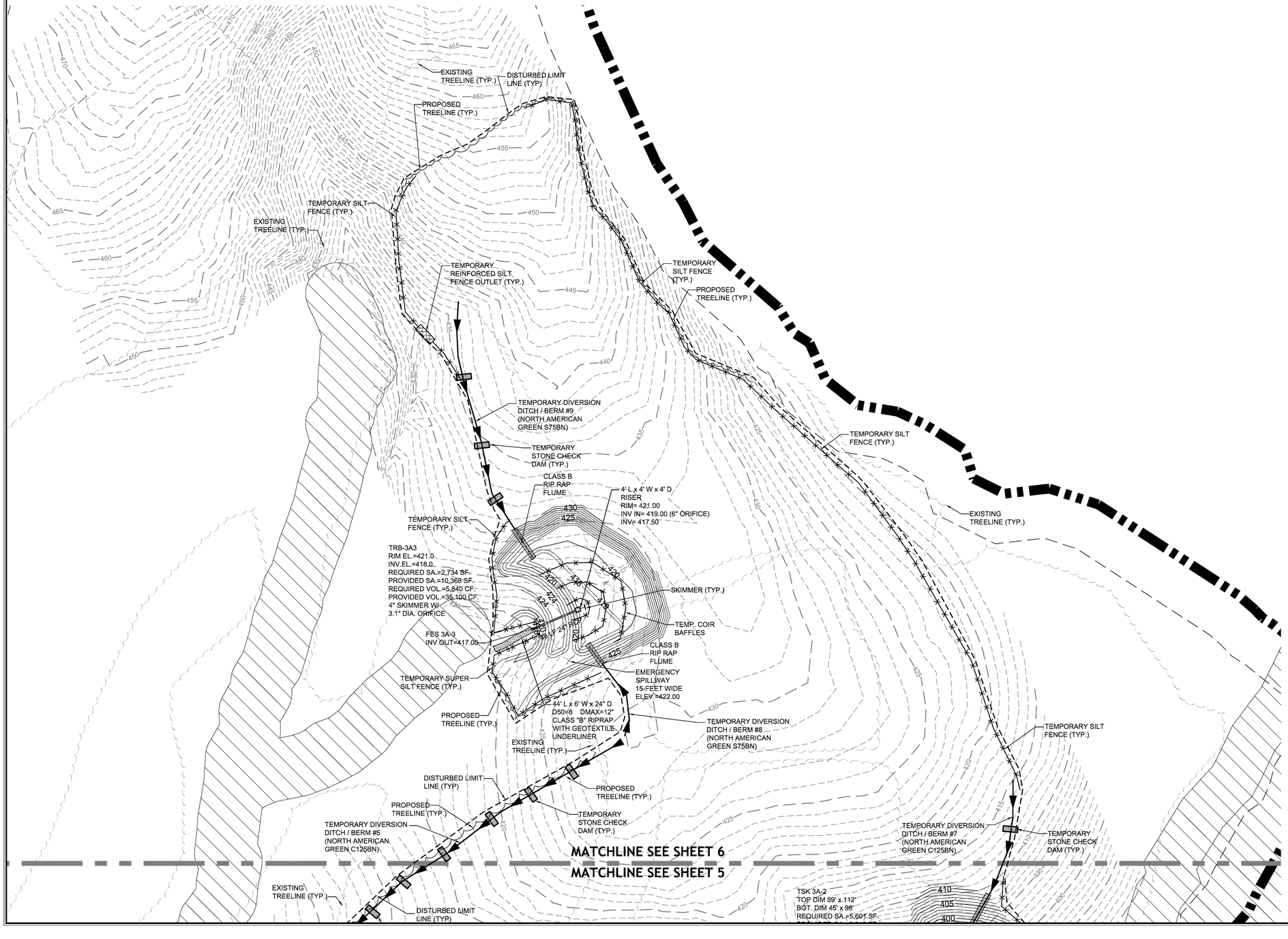
Sheet No: 5 Of -



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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 18894 MATTHEW P. ALLEN

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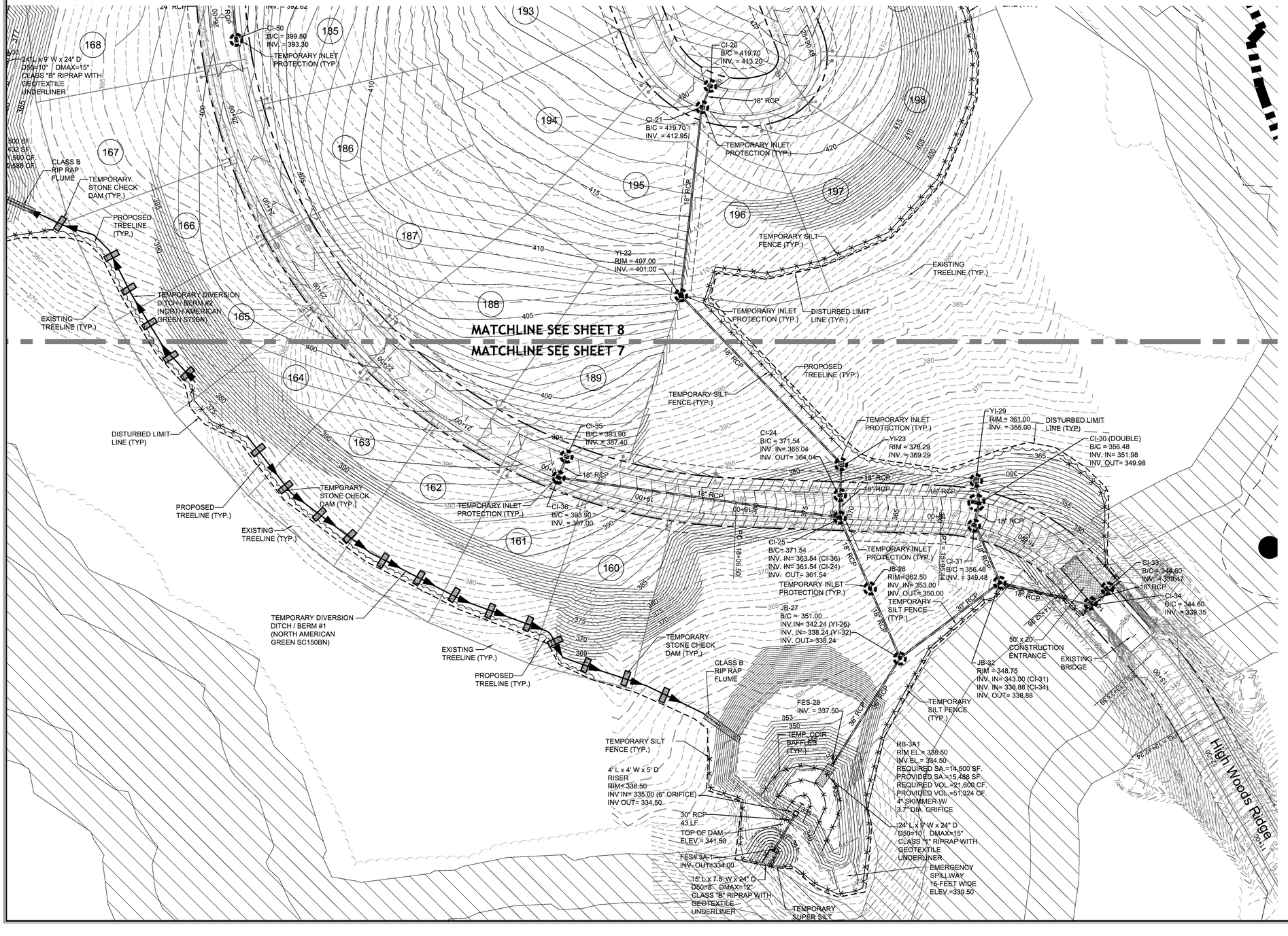
Sheet No: 6 Of -



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http://portal.ncdenr.org/web/lr/erosion

NOTE:
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NO.	REVISIONS	DATE
4	REVISED PER CHATHAM COUNTY COMMENTS	2/10/16
3	E/C REVISIONS	1/8/16
2	ADJUSTED IND BASINS	1/4/16
1	QA/QC STORM	12/15/15

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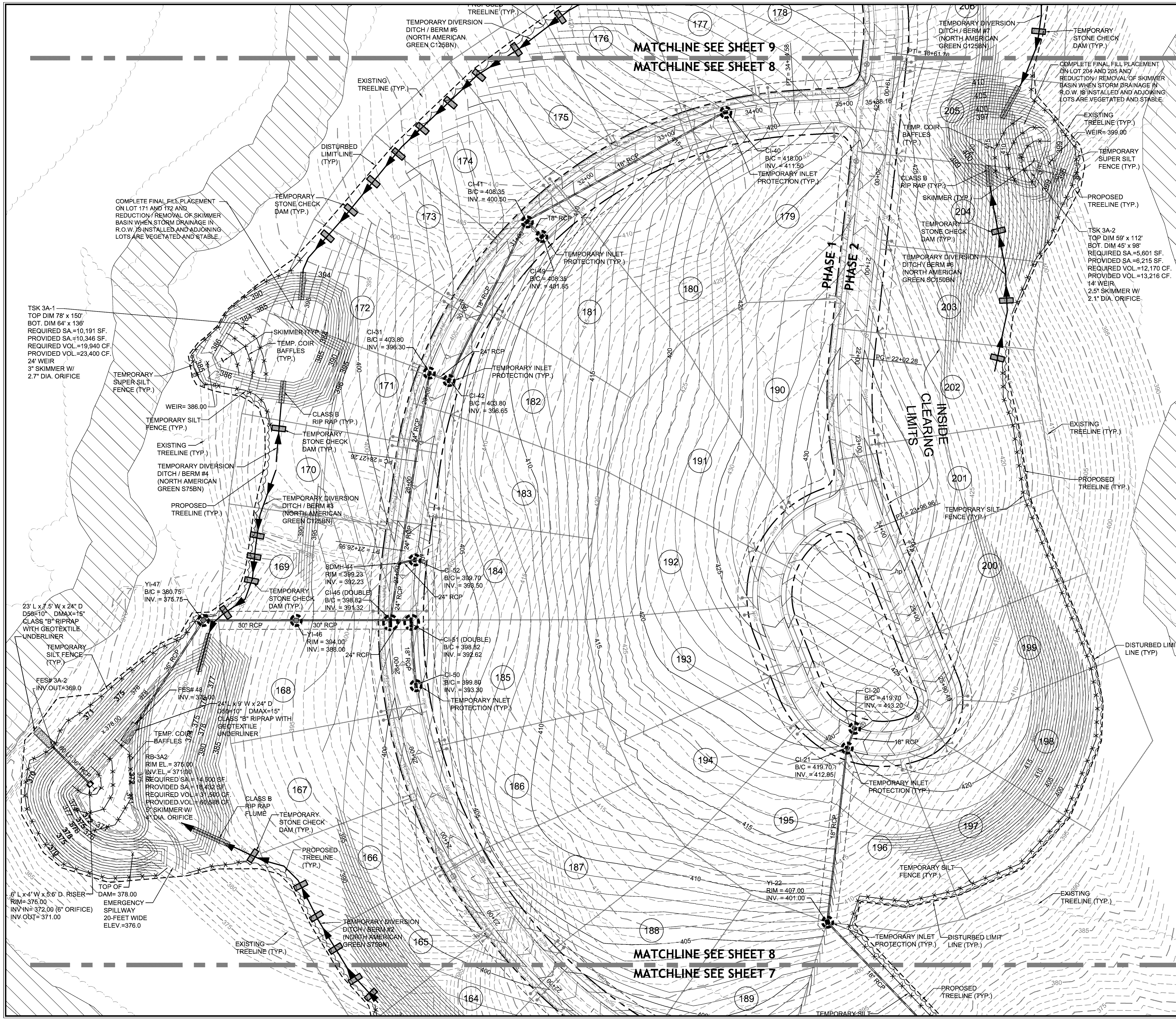
2/10/16

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 18894

THE LEGACY PHASE 3A
EROSION CONTROL PLANS SECOND STAGE PLAN
CHATHAM COUNTY, NC

Date: DECEMBER, 2015
Scale: 1" = 50'
Drawn: CPM
Checked: MPA
Project No. 330-03
Computer Dwg. Name: 330-03 07 PH3A ec plan second stage

Sheet No: 7 Of -



EROSION CONTROL NOTES

ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH STATE AND LOCAL REQUIREMENTS.

SUFFICIENT EROSION CONTROL PRACTICES MUST BE INSTALLED AND MAINTAINED TO RETAIN SEDIMENT WITHIN THE BOUNDARIES OF THE SITE. GROUND COVER STABILIZATION SHALL BE IN ACCORDANCE WITH NPDES PERMIT AND STABILIZATION CHART ABOVE. TEMPORARY GROUND COVER WILL BE INSTALLED ON ALL EXPOSED SLOPES IN 7 OR 14 DAYS. PERMANENT GROUND COVER WILL BE INSTALLED ON EXPOSED SLOPES WITHIN 15 WORKING DAYS OR 90 CALENDAR DAYS (WHICHEVER IS SHORTER), FOLLOWING COMPLETION OF CONSTRUCTION OR DEVELOPMENT.

MAINTENANCE: ALL EROSION AND SEDIMENT CONTROL PRACTICES TO BE INSPECTED WEEKLY AND AFTER EVERY RUNOFF PRODUCING RAINFALL EVENT. NEEDED REPAIRS WILL BE MADE IMMEDIATELY.

MAXIMUM GRADED SLOPE SHALL NOT EXCEED THREE (3) TO ONE (1).

FINAL DESIGN
NOT RELEASED
FOR CONSTRUCTION

LEGEND

- TEMPORARY SEDIMENT TRAP / SKIMMER BASIN
- TEMPORARY DIVERSION DITCH / BERM (GRASS UNLESS NOTED)
- TEMPORARY SILT FENCE
- TEMPORARY SUPER SILT FENCE
- TEMPORARY STONE CHECK DAM
- DISTURBED LIMIT LINE
- REINFORCED SILT FENCE OUTLET
- TEMPORARY INLET PROTECTION
- U SHAPED GUTTER BUDDY AT CURB INLET AT LOW POINT
- ANGLED GUTTER BUDDY WITH SILT SACK
- CLASS "B" RIP-RAP CHANNEL

GROUND STABILIZATION *

SITE AREA DESCRIPTION	STABILIZATION TIME FRAME	STABILIZATION TIME FRAME EXCEPTIONS
Perimeter dikes, swales, ditches and slopes	7 days	None
High Quality Water (HQW) Zones	7 days	None
Slopes steeper than 3:1	7 days	If slopes are 10' or less in length and are not steeper than 2:1, 14 days allowed
Slopes 3:1 or flatter	14 days	7-days for slopes greater than 50-feet in length
All other areas with slopes flatter than 4:1	14 days	None (except for perimeters and HQW Zones)

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NCDENR SELF-INSPECTION PROGRAM

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50' 0 50' 100'
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2/10/16

THE LEGACY
PHASE 3A
EROSION CONTROL PLANS
SECOND STAGE PLAN
CHATHAM COUNTY, NC

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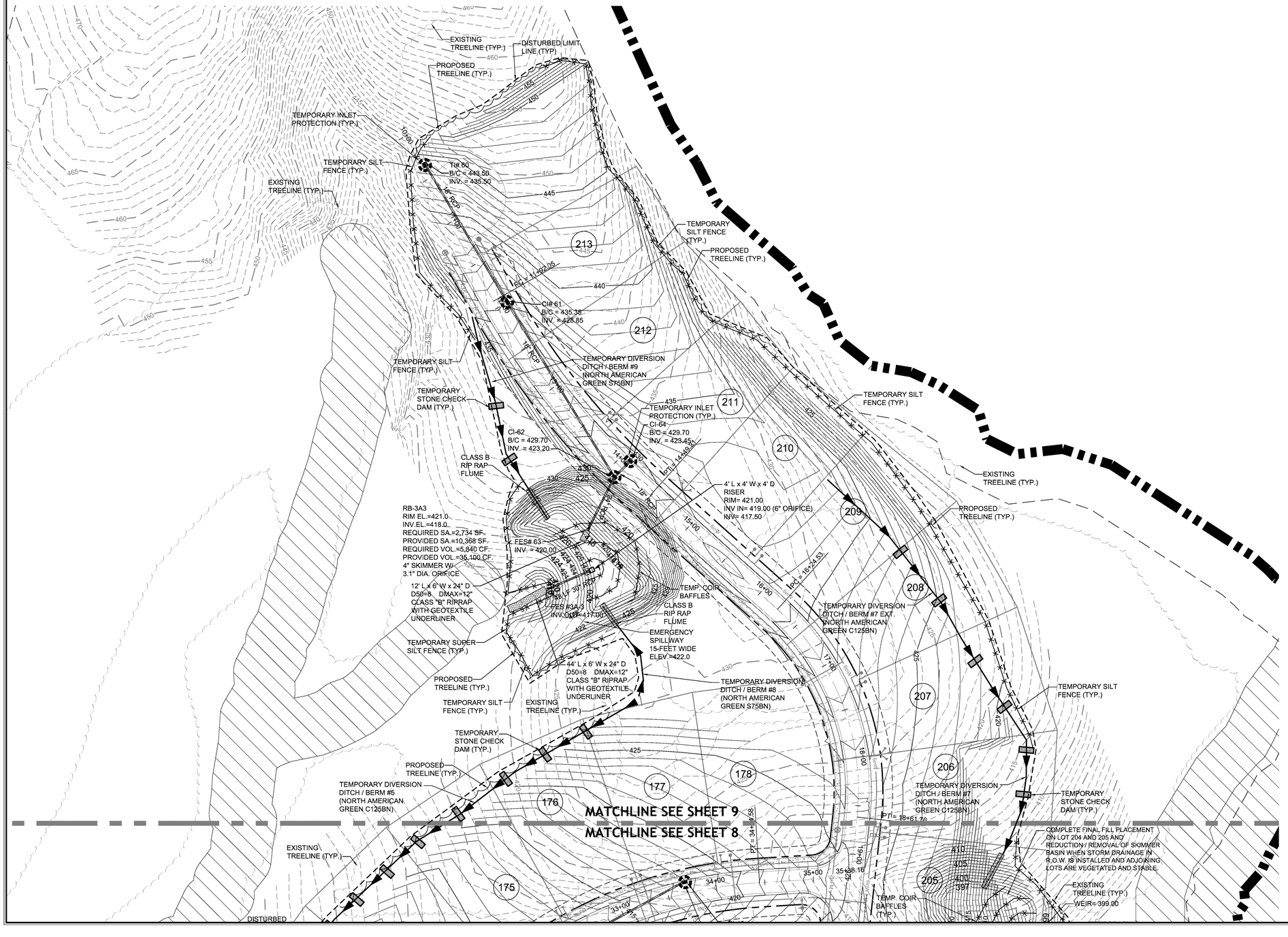

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Sheet No: 9 Of -

CONSTRUCTION SEQUENCE

1. OBTAIN GRADING PERMIT / FINAL APPROVAL FROM CHATHAM COUNTY ENVIRONMENTAL HEALTH.
2. CONTACT THE CHATHAM COUNTY EROSION CONTROL SECTION AT 919-545-8343 TO SET UP A PRE-CONSTRUCTION MEETING PRIOR TO ANY LAND DISTURBANCE WORK PERFORMED.
3. INSTALL, IN ORDER OF THIS SEQUENCE: DELINEATE THE PROPOSED TREELINE/DISTURBED LIMIT LINE AND INSTALL ALL PROPOSED SILT FENCING THROUGHOUT THE ENTIRE PROJECT AREA ALONG WITH TEMPORARY CONSTRUCTION ENTRANCE.

   CONTRACTOR SHALL INSTALL THE PERMEANENT WATER QUALITY / RISER BASINS AND SKIMMER BASINS. CLEAR ONLY AS NECESSARY TO ACCESS THESE AREAS AND TO CONSTRUCT THESE DEVICES. ONCE THE PREVIOUS MEASURES ARE INSTALLED, CLEAR ONLY AS REQUIRED TO INSTALL TEMPORARY DIVERSION BERMS/ DITCHES AND GRAVEL DIVERSION DIKES TO THESE SEDIMENT TRAPS / RISER BASINS/ SKIMMER BASINS AND OTHER TEMPORARY MEASURES AS SHOWN ON THE APPROVED PLAN. THE CONTRACTOR SHALL STABILIZE ALL DIVERSIONS, SEDIMENT TRAPS, RISER BASINS, AND SKIMMER BASINS IMMEDIATELY UPON THEIR CONSTRUCTION.

   ALL MEASURES SHALL BE INSTALLED AND INSPECTED FOR COMPLIANCE PRIOR TO COMMENCEMENT OF ANY PROPOSED R.O.W. CLEARING/GRUBBING AND EXCAVATION.
4. CALL FOR AN INSPECTION FOR COMPLIANCE PRIOR TO ANY ADDITIONAL CLEARING. OBTAIN CERTIFICATE OF COMPLIANCE THROUGH ON-SITE INSPECTION BY ENVIRONMENTAL INSPECTOR.
5. ONCE CERTIFICATE OF COMPLIANCE IS OBTAINED BEGIN CLEARING AND GRUBBING OF REMAINING DISTURBED AREAS AS SHOWN ON APPROVED PLAN. BEGIN EXCAVATION OF ROADWAYS AND INSTALLATION OF SUBSURFACE DRAINAGE AND UTILITIES. INSTALL ADDITIONAL INLET PROTECTION DEVICES AS REQUIRED AND/OR SHOWN. ONCE SUBSURFACE DRAINAGE IS INSTALLED AND OPERATIONAL, TEMPORARY SKIMMER BASINS CAN BE REMOVED AND THE SLOPES STABILIZED. SEED AND MULCH ALL DENUDED AREAS WITHIN 15 WORKING DAYS OF COMPLETION OF ANY PHASE OF CONSTRUCTION.
6. REQUEST FINAL APPROVAL BY ENVIRONMENTAL INSPECTOR. IF THE INSPECTOR IS SATISFIED WITH UPSTREAM PERMANENT GROUND COVER, BEGIN REMOVING TEMPORARY EROSION CONTROL MEASURES. REMOVE THE SEDIMENT TRAPS AND ALL UNSTABLE SEDIMENT. AFTER STABILIZATION HAS OCCURRED REMOVE SEDIMENT FROM RISER BASINS/WATER QUALITY PONDS AND CONVERT TO PERMANENT STRUCTURE.

*CONTRACTOR TO REESTABLISH TEMPORARY DIVERSION SWALES AT THE END OF EACH DAY TO ENSURE DRAINAGE TO THE APPROPRIATE STRUCTURE.

Seedbed Preparation:

1. Chisel compacted areas and spread topsoil three inches deep over adverse soil conditions, if available.
2. Rip the entire area to six inches deep.
3. Remove all loose rock, roots, and other obstructions leaving surface reasonable smooth and uniform.
4. Apply agricultural lime, fertilizer and superphosphate uniformly and mix with soil (see mixture).
5. Continue tillage until a well-pulverized, firm reasonably uniform seedbed is prepared four to six inches deep.
6. Seed on a freshly prepared seedbed and cover seed lightly with seeding equipment or cultipack after seeding.
7. Mulch immediately after seeding and anchor mulch.
8. Inspect all seeded areas and make necessary repairs for reseedings within the planting season, if possible. If stand should be over 60% damaged, reestablish following the original lime, fertilizer and seeding rates.
9. Consult EFS Environmental Engineers on maintenance treatment and fertilization after permanent cover is established.

Mixture

Agricultural Limestone:	2 tons/acre (3 tons/acre in clay soils)
Fertilizer:	1,000 lbs/acre - 10-10-10
Superphosphate:	500 lbs/acre - 20% analysis
Mulch:	2 tons/acre - small grain straw
Anchor:	Asphalt Emulsion at 300 gals/acre

Seeding Schedule

PERMANENT

Date	Type	Planting Rate
Aug 15 - Nov 1	Tall Fescue	300 lbs/acre
Nov 1 - Mar 1	Tall Fescue & Abruzzi Rye	300 lbs/acre
Mar 1 - Apr 15	Tall Fescue	300 lbs/acre
Apr 15 - Jun 30	Hulled Common Bermudagrass	25 lbs/acre
Jul 1 - Aug 15	Tall Fescue AND Browntop Millet or Sorghum - Sudan Hybrids ***	125 lbs/acre (Tall Fescue); 35 lbs/acre (Browntop Millet); 30 lbs/acre (Sorghum - Sudan Hybrids)

TEMPORARY

Mar 1 - Jun 1	Sericea Lespedeza (scarified) and use the following combinations:	50 lbs/acre (Sericea Lespedeza);
Mar 1 - Apr 15	Add Tall Fescue	120 lbs/acre
Mar 1 - Jun 30	Or add Julled Common Bermudagrass	25 lbs/acre
Jun 1 - Sept 1	Tall Fescue AND Browntop Mullet or Sorghum - Sudan Hybrids ***	120 lbs/acre (Tall Fescue); 35 lbs/acre (Browntop Mullet); 30 lbs/acre (Sorghum - Sudan Hybrids)
Sept 1 - Mar 1	Sericea Lespedeza (unhulled - unscarified) AND Tall Fescue	70 lbs/acre (Sericea Lespedeza); 120 lbs/acre (Tall Fescue)
Nov 1 - Mar 1	And Abruzzi Rye	25 lbs/acre

Consult EFS Environmental Engineer for additional information concerning other alternatives for vegetation of denuded areas. The above vegetation rates are those which do well under location conditions; other seeding rate combinations are possible.

*** TEMPORARY: Reseed according to optimum season for desired permanent vegetation. Do not allow temporary cover to grow over 12" in height before mowing, otherwise fescue may be shaded out.

NOTES:

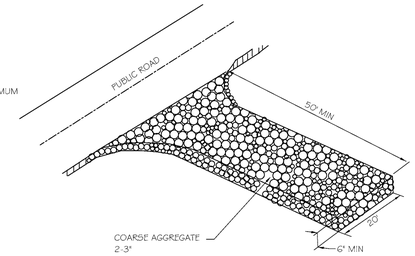
a. GRAVEL PAD TO BE 20' x 50' AND 6" THICK MINIMUM

b. TURNING RADIUS SUFFICIENT TO ACCOMMODATE LARGE TRUCKS IS TO BE PROVIDED.

c. ENTRANCE(S) SHOULD BE LOCATED TO PROVIDE FOR MAXIMUM UTILITY BY ALL CONSTRUCTION VEHICLES.

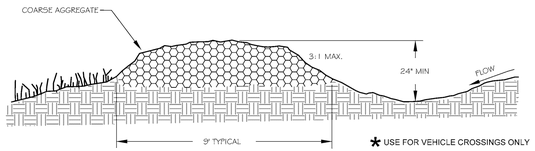
d. MUST BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR DIRECT FLOW OF MUD ONTO STREETS. PERIODIC TOPDRESSING WITH STONE SILL BE NECESSARY; KEEP SOME HANDY.

e. ANY MATERIAL WHICH STILL MAKES IT ONTO THE ROAD MUST BE CLEANED UP IMMEDIATELY.

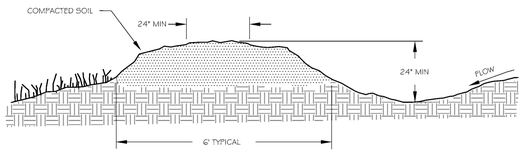


NOTES: APPLICABLE AT ALL POINTS OF INGRESS & EGRESS UNTIL SITE IS STABILIZED, FREQUENT CHECKS OF THE DEVICE AND TIMELY MAINTENANCE MUST BE PROVIDED.

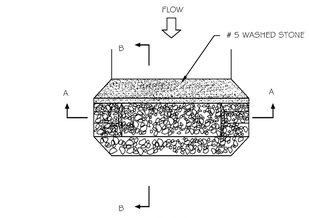
TEMPORARY CONSTRUCTION ENTRANCE



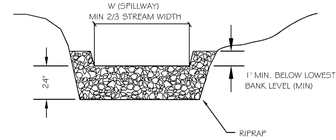
TEMPORARY GRAVEL DIVERSION DIKE



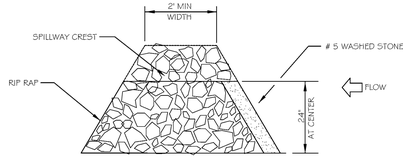
TEMPORARY DIVERSION BERM/SWALE



PLAN

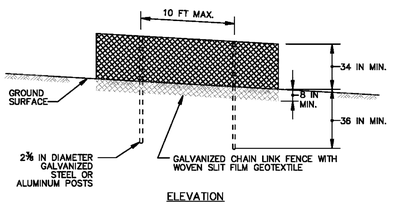


SECTION A-A

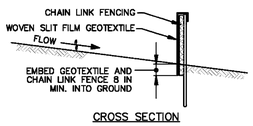


SECTION B-B

TEMPORARY STONE CHECK DAM



ELEVATION

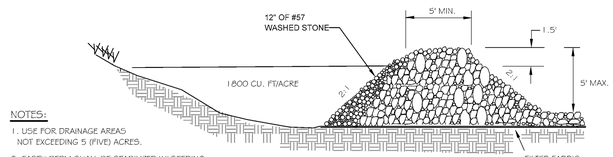


CROSS SECTION

CONSTRUCTION SPECIFICATIONS

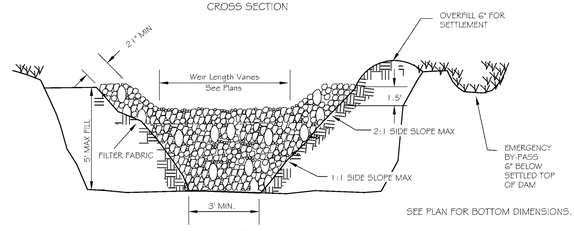
1. INSTALL 2⅜ INCH DIAMETER GALVANIZED STEEL POSTS OF 0.095 INCH WALL THICKNESS AND SIX FOOT LENGTH SPACED NO FURTHER THAN 10 FEET APART. DRIVE THE POSTS A MINIMUM OF 36 INCHES INTO THE GROUND.
2. FASTEN 9 GAUGE OR HEAVIER GALVANIZED CHAIN LINK FENCE (2⅜ INCH MAXIMUM OPENING) 42 INCHES IN HEIGHT SECURELY TO THE FENCE POSTS WITH WIRE TIES OR HUG RINGS.
3. FASTEN WOVEN SLIT FILM GEOTEXTILE AS SPECIFIED IN SECTION H-1 MATERIALS, SECURELY TO THE UPSLOPE SIDE OF CHAIN LINK FENCE WITH TIES SPACED EVERY 24 INCHES AT THE TOP AND MID SECTION. EMBED GEOTEXTILE AND CHAIN LINK FENCE A MINIMUM OF 8 INCHES INTO THE GROUND.
4. WHERE ENDS OF THE GEOTEXTILE COME TOGETHER, THE ENDS SHALL BE OVERLAPPED BY 6 INCHES, FOLDED, AND STAPLED TO PREVENT SEDIMENT BY PASS.
5. EXTEND BOTH ENDS OF THE SUPER SILT FENCE A MINIMUM OF FIVE HORIZONTAL FEET UPSLOPE AT 45 DEGREES TO THE MAIN FENCE ALIGNMENT TO PREVENT RUNOFF FROM GOING AROUND THE ENDS OF THE SUPER SILT FENCE.
6. PROVIDE MANUFACTURER CERTIFICATION TO THE INSPECTION/ENFORCEMENT AUTHORITY SHOWING THAT GEOTEXTILE USED MEETS THE REQUIREMENTS IN SECTION H-1 MATERIALS.
7. REMOVE ACCUMULATED SEDIMENT AND DEBRIS WHEN BULGES DEVELOP IN FENCE OR WHEN SEDIMENT REACHES 25% OF FENCE HEIGHT. REPLACE GEOTEXTILE IF TORN. IF UNDERMINING OCCURS, REINSTALL CHAIN LINK FENCING AND GEOTEXTILE.

SUPER SILT FENCE



NOTES:
1. USE FOR DRAINAGE AREAS NOT EXCEEDING 5 (FIVE) ACRES.
2. EARTH BERM SHALL BE STABILIZED W/ SEEDING

CROSS SECTION



SEE PLAN FOR BOTTOM DIMENSIONS.

STONE SECTION

MAINTENANCE

INSPECT TEMPORARY SEDIMENT TRAPS AFTER EACH PERIOD OF SIGNIFICANT RAINFALL. REMOVE SEDIMENT AND RESTORE TRAP TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED TO ONE-HALF THE DESIGN DEPTH OF THE TRAP. PLACE THE SEDIMENT THAT IS REMOVED IN A DESIGNATED DISPOSAL AREA AND REPLACE THE CONTAMINATED PART OF THE GRAVEL FACING.

CHECK THE STRUCTURE FOR DAMAGE FROM EROSION OR PIPING. PERIODICALLY CHECK THE DEPTH OF THE SPILLWAY TO ENSURE IT IS A MINIMUM OF 1.5 FT. BELOW THE LOW POINT OF THE EMBANKMENT. IMMEDIATELY FILL ANY SETTLEMENT OF THE EMBANKMENT TO SLIGHTLY ABOVE DESIGN GRADE. ANY RIP RAP DISPLACED FROM THE SPILLWAY MUST BE REPLACED IMMEDIATELY.

STABILIZE THE EMBANKMENT AND ALL DISTURBED AREAS ABOVE THE SEDIMENT POOL AND DOWNSTREAM FROM THE TRAP IMMEDIATELY AFTER CONSTRUCTION WITH SEEDING.

TEMPORARY SEDIMENT TRAP DETAIL

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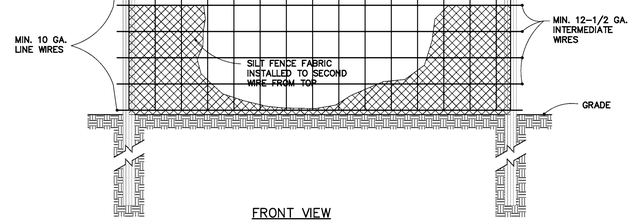
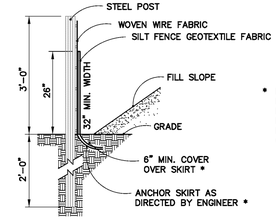


FRONT VIEW



SIDE VIEW

* FOR REPAIR OF SILT FENCE FAILURES, USE No. 57 WASHED STONE. FOR ANCHOR WHEN SILT FENCE IS PROTECTING CATCH BASIN.

NOTE:
-USE SILT FENCE ONLY WHEN DRAINAGE AREA DOES NOT EXCEED 1/4 ACRE AND NEVER IN AREAS OF CONCENTRATED FLOW

-END OF SILT FENCE NEEDS TO BE TURNED UPHILL.

STANDARD TEMPORARY SILT FENCE

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1	EC REVISIONS	1/8/16

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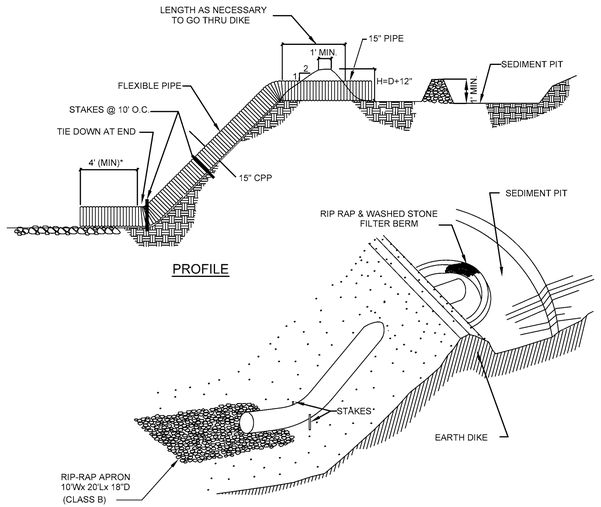
2/10/16

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 18894

THE LEGACY
PHASE 3A
EROSION CONTROL PLANS
EROSION CONTROL DETAILS
CHATHAM COUNTY, NC

Date: DECEMBER, 2015
Scale: -
Drawn: CPM
Checked: MPA
Project No. 330-03
Computer Dwg. Name 330-03 10 Ph3A erosion control details

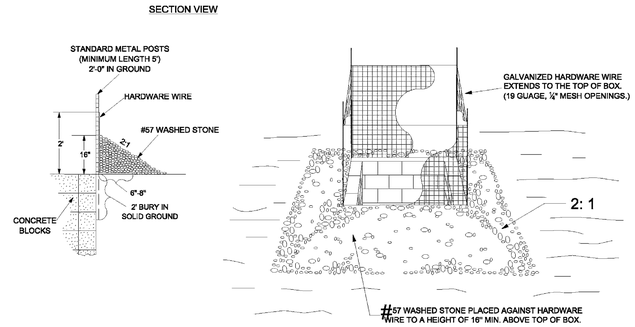
Sheet No: 10 Of -



CONSTRUCTION SPECIFICATIONS:

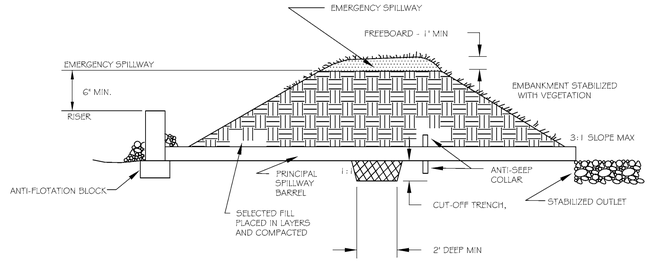
1. THE TOP OF THE EARTH DIKE OVER THE INLET PIPE AND THOSE DIKES CARRYING WATER TO THE PIPE SHALL BE AT LEAST 1 FOOT HIGHER AT ALL POINTS THAN THE TOP OF THE INLET PIPE.
2. THE PIPE SHALL BE FLEXIBLE WITH WATER TIGHT CONNECTING BANDS. FLEXIBLE PIPE SHOULD BE STAKED ON EITHER SIDE.
3. A RIP RAP APRON SHALL BE PROVIDED AT THE OUTLET, IF EMPTYING INTO A DISTURBED AREA.
4. THE SOIL AROUND AND UNDER THE INLET PIPE AND ENTRANCE SECTION SHALL BE HAND TAMPED IN 4" LIFTS TO THE TOP OF THE EARTH DIKE.
5. FOLLOW-UP INSPECTION AND ANY NEEDED MAINTENANCE SHALL BE PERFORMED AFTER EACH STORM.

TEMPORARY SLOPE DRAIN

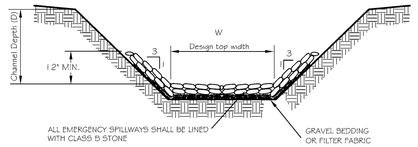


INLET PROTECTION

NTS



TEMPORARY RISER BASIN DETAIL



EMERGENCY SPILLWAY

EMERGENCY SPILLWAY

Installation **NOTE: Sediment fence captures sediment by backing up water to allow deposition. It is relatively ineffective for filtration because it clogs too rapidly. The sedimentation pool behind the fence is very effective and may reduce the need for expensive sediment basins and traps.**

To use sediment fence effectively, provide access to the locations where sediment accumulates and provide reinforced, stabilized outlets for emergency overflow (Figure 6.62c).

Sediment fence is most effective when used in conjunction with other practices such as perimeter dikes or diversions.

Location Locate the fence at least 10 ft from the toe of steep slopes to provide sediment storage and access for cleanout (Figure 6.62b).

The fence line should be nearly level through most of its length to impound a broad, temporary pool. Stabilized outlets are required for bypass flow, unless fence is designed to retain all runoff from the 10-yr storm (Figure 6.62b).

The fence line may run slightly off level (grade less than 1%) if it terminates in a level section with a stabilized outlet, diversion, basin, or sediment trap. There must be no gullying along the fence or at the ends. Sediment fence should not be used as a diversion.

Construction Dig a trench approximately 8 inches deep and 4 inches wide, or a V-trench, in the line of the fence as shown in Figure 6.62d.

Drive posts securely, at least 18 inches into the ground, on the downslope side of the trench. Space posts a maximum of 8 ft if fence is supported by wire, 6 ft if extra-strength fabric is used without support wire. Adjust spacing to place posts at low points along the fenceline.

Fasten support wire fence to upslope side of posts, extending 6 inches into the trench as shown in Figure 6.62d.

Attach continuous length of fabric to upslope side of fence posts. Avoid joints, particularly at low points in the fence line. Where joints are necessary, fasten fabric securely to support posts and overlap to the next post.

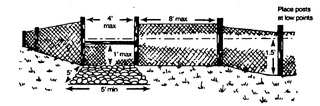


Figure 6.62c Perspective of reinforced, stabilized outlet for sediment fence.

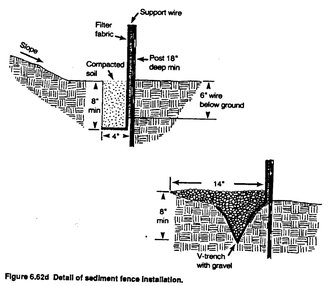
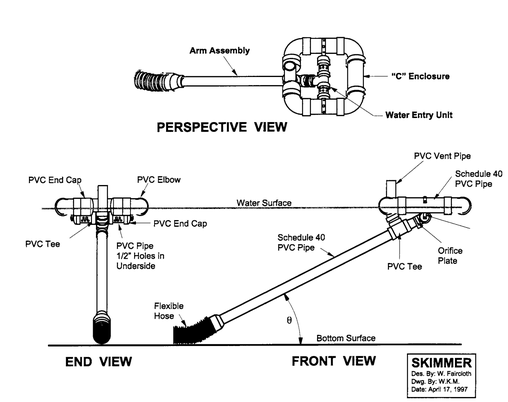


Figure 6.62d Detail of sediment fence installation.

REINFORCED SILT FENCE OUTLET



PERSPECTIVE VIEW

END VIEW FRONT VIEW

SKIMMER
Des. By: W. Faircloth
Dwg. By: W.K.M.
Date: April 17, 1997

NOTES:

1. USE FOR DRAINAGE AREAS NOT EXCEEDING 10 (TEN) ACRES.
2. EARTH BERM SHALL BE STABILIZED W/ SEEDING

MAINTENANCE

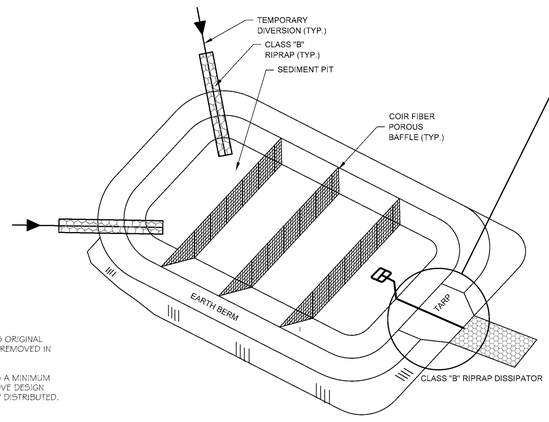
INSPECT TEMPORARY SEDIMENT TRAPS AFTER EACH PERIOD OF SIGNIFICANT RAINFALL. REMOVE SEDIMENT AND RESTORE TRAP TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED TO ONE-HALF THE DESIGN DEPTH OF THE TRAP. PLACE THE SEDIMENT THAT IS REMOVED IN A DESIGNATED DISPOSAL AREA AND REPLACE THE CONTAMINATED PART OF THE GRAVEL FACING.

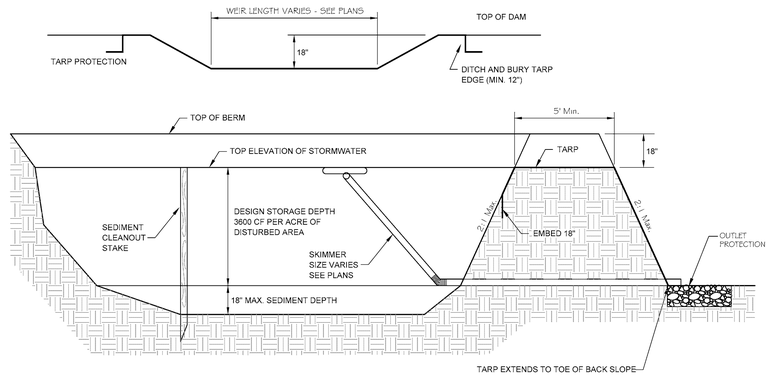
CHECK THE STRUCTURE FOR DAMAGE FROM EROSION OR PIPING. PERIODICALLY CHECK THE DEPTH OF THE SPILLWAY TO ENSURE IT IS A MINIMUM OF 1.5 FT. BELOW THE LOW POINT OF THE EMBANKMENT. IMMEDIATELY FILL ANY SETTLEMENT OF THE EMBANKMENT TO SLIGHTLY ABOVE DESIGN GRADE. ANY RIP RAP DISPLACED FROM THE SPILLWAY MUST BE REPLACED IMMEDIATELY. PROVIDE A MINIMUM OF 3 BAFFLES, EVENLY DISTRIBUTED. BAFFLE MATERIAL MUST BE SECURED AT THE BOTTTOM AND SIDES USING STAPLES OR BY TRENCHING AS FOR SILT FENCE.

STABILIZE THE EMBANKMENT AND ALL DISTURBED AREAS ABOVE THE SEDIMENT POOL AND DOWNSTREAM FROM THE BASIN IMMEDIATELY AFTER CONSTRUCTION WITH SEEDING.

THE TARP USED TO PROTECT THE WEIR SHALL BE THE WIDTH SPECIFIED. THE LENGTH OF THE TARP SHALL BE ACCORDING TO AVAILABLE SUPPLY. IF MULTIPLE TARPS ARE TO BE USED, THEN TARPS SHALL BE LAPPED AT LEAST 12". THE UPSTREAM 12" TARP SHALL OVERLAP THE DOWNSTREAM TARP. THE TARP SHALL BE 18 MIL. HEAVY DUTY SILVER TARPAULINS FOR U.V. RESISTANCE.

SKIMMER DETAIL





TEMPORARY SKIMMER SEDIMENT BASIN

FINAL DESIGN
NOT RELEASED FOR CONSTRUCTION

NO.	REVISIONS	DATE
2	REVISED PER CHATHAM COUNTY COMMENTS	2/10/16
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