STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

PLAN FOR PROPOSED
HIGHWAY EROSION CONTROL

ALAMANCE COUNTY

LOCATION: RALEIGH - GRAND OAKS BLVD EXTENSION
FROM SR 1146 (KIRKPATRICK ROAD) TO
NC 62 (ALAMANCE ROAD)

TYPE OF WORK: GRADING, DRAINAGE, CULVERT, CURB AND GUTTER, SIGNALS AND PAVING

This project contains erosion control plans for clearing and grubbing phase of construction.

Temporary Silt Ditch
Temporary Silt Fence
Silt Basin Type B
Temporary Diversion
Temporary Rock Silt Check Type-B
Temporary Rock Sediment Dam Type-B
Type A
Type B
Type C

The following roadway English standards as appear in “Roadway Standard Drawings” - Roadway Design revision thereto are applicable to this project and by reference hereby are considered a part of these plans.

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State of North Carolina
TEMPORARY ROCK SILT CHECK TYPE 'B' DETAIL

NOTES:

USE CLASS 'B' EROSION CONTROL STONE FOR STRUCTURAL STONE.

THE ENGINEER MAY DIRECT THE OPTION OF CLASS "A" STONE FOR SITES HAVING LESS THAN ONE (1) ACRE DRAINAGE AREA AND A DITCH GRADE LESS THAN 3%.
COIR FIBER BAFFLE DETAIL

- Drape baffle material over wire strand and secure with plastic ties at posts and on wire every 12".
- Install T-post to anchor baffle to side of basin and secure to vertical post.
- Secure bottom of baffle to ground with 12" staples at 12" maximum spacing.
- VARIABLE DEPTH
- STEEL POST - 2'-0" DEPTH
- 11 GAUGE LANDSCAPE STAPLE

NOTE: INSTALL THREE (3) COIR FIBER BAFFLES IN SILT BASINS AND SEDIMENT DAMS AT DRAINAGE OUTLETS WITH A SPACING OF 1/4 THE BASIN LENGTH. TWO (2) COIR FIBER BAFFLES CAN BE INSTALLED IN SILT BASINS AND DAMS LESS THAN 20 FT. IN LENGTH WITH A SPACING OF 1/3 THE BASIN LENGTH.
SKIMMER BASIN WITH BAFFLES DETAIL

NOTES:
1. SEED AND PLACE MATTING FOR EROSION CONTROL ON SIDESLOPES.
2. LIMIT EARTH DIKE HEIGHT TO 5 FT.
SILT BASIN 'B' DETAIL

TOP OF DITCH SLOPE

BASE OF DITCH FOR +4' SLOPE

BASE OF DITCH FOR FLAT BOTTOM BARRIER

PLAN

TOP OF DITCH SLOPE

BASE OF DITCH FLOW LINE

LENGTH 24" FEET EQUALS THREE TIMES THE WIDTH

ELEVATION

BASE OF DITCH FLOW LINE

SILT BASIN 'B' DETAIL

TOP OF DITCH SLOPE

BASE OF DITCH FOR FLAT BOTTOM BARRIER
TEMPORARY STREAM CROSSING

NOTE: PIPE(S) FOR TEMPORARY STREAM CROSSING SHALL BE DESIGNED TO PASS THE PEAK OF 2-YEAR PEAK STORM OR BANKFULL FLOW, WHICHEVER IS LESS, WITH A 2-YEAR PEAK STORM, WITHOUT OVER TOPPING.
### Soil Stabilization Summary Sheet

#### Matting for Erosion Control

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**SUBTOTAL** 5145

**Miscellaneous Matting to be Installed as Directed by the Engineer** 4675

**TOTAL** 9820

**GAY** 9850
3. Construct Proposed Culvert and Portion of Inlet/Outlet Channel Improvements.
5. Construct Remainder of Inlet/Outlet Channel Improvements.