



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

PAT MCCRORY
GOVERNOR

ANTHONY J. TATA
SECRETARY

August 30, 2013

MEMORANDUM TO: Mohammed Mulla, P.E., C.P.M.
Contracts and Statewide Services Manager

K. J. Kim, Ph.D., P.E.
Eastern Regional Geotechnical Manager

Eric Williams, P.E.
Western Regional Geotechnical Manager

FROM: John Pilipchuk, L.G., P.E.
State Geotechnical Engineer

SUBJECT: Aggregate Stabilization Provision
Soil-Cement Base (Full Depth Reclamation) Provision
Geotechnical Summary Tables

The Technical Support Group of the Support Services Section has completed the following items:

Provision No.	Title/Name	New/Rev	Standard Type	Custodian	Summary of Changes
SP5 R10	Aggregate Stabilization	New	Provision	Contract Standards	<ul style="list-style-type: none"> Replaces Section 510 of the <i>2012 Standard Specifications</i> Adds Class IV aggregate stabilization
SP5 R20	Soil-Cement Base (Full Depth Reclamation)	New	Provision	Contract Standards	<ul style="list-style-type: none"> Adds full depth reclamation (FDR) to Section 542 of the <i>2012 Standard Specifications</i>
---	Geotechnical Summary Tables	Rev	Form	Geotech	<ul style="list-style-type: none"> Adds tables for geotextile for pavement stabilization and aggregate subgrade/stabilization

These items are effective with the November 19, 2013 letting but it is not necessary to update geotechnical recommendations for previously completed projects. The new pay item for Class IV aggregate stabilization has been added to the QtySummary spreadsheet that is included in the

MAILING ADDRESS:
NC DEPARTMENT OF TRANSPORTATION
GEOTECHNICAL ENGINEERING UNIT
1589 MAIL SERVICE CENTER
RALEIGH NC 27699-1589

TELEPHONE: 919-707-6850
Fax: 919-250-4237
connect.ncdot.gov/resources/Geological

LOCATION:
CENTURY CENTER COMPLEX
ENTRANCE B-2
1020 BIRCH RIDGE DRIVE
RALEIGH NC 27610

August 30, 2013
Mohammed Mulla, P.E., C.P.M.
K. J. Kim, Ph.D., P.E.
Eric Williams, P.E.
Page 2

geotechnical workspace. The new aggregate stabilization and soil-cement base (full depth reclamation) provisions and revised geotechnical summary tables are attached to this memorandum for your reference. If there are any questions, please contact Scott Hidden, P.E. at (919) 707-6856.

Attachments: New Aggregate Stabilization Provision
 New Soil-Cement Base (Full Depth Reclamation) Provision
 Revised Geotechnical Summary Tables

cc: Randy Garris, P.E., State Contract Officer
 Andy Gay, P.E., Proposals and Contract Engineer
 Cynthia Terrell, P.E., Plans and Standards Engineer
 Ron Davenport, P.E., State Estimating Engineer
 Jay Bennett, P.E., State Roadway Design Engineer
 Judith Corley-Lay, Ph.D., P.E., State Pavement Management Engineer
 Rodger Rochelle, P.E., Transportation Program Management Director
 Lamar Sylvester, P.E., State Roadway Construction Engineer

COMPUTED BY: _____ DATE: _____
 CHECKED BY: _____ DATE: _____

(11-19-13)

PROJECT NO.	SHEET NO.
	3-??

**STATE OF NORTH CAROLINA
 DIVISION OF HIGHWAYS**

SUMMARY OF SUBSURFACE DRAINAGE

LINE	Station	Station	Location LT/RT/CL	Drain Type* UD/BD/SD	LF
CONTINGENCY					
TOTAL LF:					0

*UD = Underdrain
 *BD = Blind Drain
 *SD = Subsurface Drain

**SUMMARY OF
 BRIDGE WAITING PERIODS**

Bridge Description	End Bent/ Bent No.	MONTHS

**SUMMARY OF
 SETTLEMENT GAUGES**

Gauge No.	LINE	Approx. Station	Approx. Offset
TOTAL GAUGES (EACH):			

SUMMARY OF ROCK PLATING

LINE	Beginning Slope	Approx. Station	Ending Slope	Approx. Station	Location LT/RT	Rock Plating Detail No. 1/2/3/4	Riprap Class* 1/2/B	SY
TOTAL SY:								0

*Use Class 1, 2 or B riprap if riprap class is not shown for rock plating location.

**SUMMARY OF
 EMBANKMENT WAITING PERIODS**

LINE	Station	Station	MONTHS

**SUMMARY OF SURCHARGES
 AND SURCHARGE WAITING PERIODS**

LINE	Station	Station	Surcharge Height FT	MONTHS

**SUMMARY OF GEOTEXTILE
 FOR PAVEMENT STABILIZATION**

LINE	Station	Station	SY
CONTINGENCY			
TOTAL SY:			0

SUMMARY OF REINFORCED SOIL SLOPES (RSS)

LINE	Beginning Slope	Approx. Station	Ending Slope	Approx. Station	Location LT/RT	SY
TOTAL SY:						0

SUMMARY OF AGGREGATE SUBGRADE/STABILIZATION

LINE	Station	Station	Aggregate Type* ASU/AST	Aggregate Thickness INCHES	Shallow Undercut CY	Class IV Subgrade Stabilization TONS	Geotextile for Soil Stabilization SY	Stabilizer Aggregate TONS	Class IV Aggregate Stabilization TONS
CONTINGENCY									
TOTAL CY/TONS/SY:					0	0	0	0	0

*ASU = Aggregate Subgrade
 *AST = Aggregate Stabilization