



LUMSDEN ASSOCIATES, P.C.
 ENGINEERS-SURVEYORS-PLANNERS
 ROANOKE, VIRGINIA

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 Lic. No. 033740
 12-18-09
 PROFESSIONAL ENGINEER

INTERSECTION REALIGNMENT AT
OLD ROCKY MOUNT ROAD AND WELCOME VALLEY ROAD
 PREPARED FOR
ROCKYDALE QUARRIES CORP.
 SITUATED IN NEIGHBORHOOD NUMBERS 310 & 851
 THE CITY OF ROANOKE, VIRGINIA

REVISIONS

NO.	DATE	DESCRIPTION
1		
2		
3		
4		
5		

DATE: December 18, 2009
 SCALE: 1" = 30'
 COMMISSION NO.: 08-191
 SHEET 5 OF 15

GEOTECHNICAL NOTES FOR STORMWATER MANAGEMENT AREA AS FURNISHED BY JOHN R. CUTRIGHT, P.E. OF GEOTECHNICS, INC.:

THE FOUNDATION CONDITIONS AT THE PROPOSED STORM WATER MANAGEMENT BASIN LOCATION ARE CHARACTERIZED AS POOR DUE TO THE PRESENTLY EXISTING SOFT MATERIAL. CONSEQUENTLY, SOME REMEDIAL UNDERCUT WILL BE REQUIRED AS DESCRIBED BELOW.

THE PRESENTLY EXISTING MATERIAL SHOULD BE UNDERCUT OR REMOVED TO A DEPTH OF FOUR (4) FEET BELOW THE PRESENT GROUND SURFACE OR THE PROPOSED POND BOTTOM ELEVATION, WHICHEVER IS DEEPER. THE EXPOSED SURFACE SHOULD BE SCARIFIED, AERATED AND RECOMPACTED. IT IS ANTICIPATED SOME 'BALLAST STONE' (SUCH AS VDOT NO. 1) WILL BE REQUIRED TO STABILIZE THE EXPOSED SURFACE. THE STONE SHOULD BE WORKED INTO THE EXISTING SOIL SUCH THAT THERE ARE NO VOIDS WITHIN THE STONE.

THE BASIN SHOULD THEN BE BACKFILLED TO THE PLAN GRADES WITH CLAY SOIL PLACED IN EIGHT (8) INCH LOOSE HORIZONTAL LIFTS COMPACTED TO AT LEAST 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D-698 (STANDARD PROCTOR).

THE PROPOSED WORK MUST BE PERFORMED DURING FAVORABLE WEATHER CONDITIONS. IT IS LIKELY THAT SOME DETERIORATING WILL BE REQUIRED SINCE THE SITE DRAINAGE PRESENTLY FLOWS INTO THE PROPOSED BASIN AREA.