GENERAL SUBJECT: Manual of Instructions – Chapter 3

SPECIFIC SUBJECT: Clarification to minimum standards for slope stability

NUMBER: MD 435-20

DATE: July 1, 2020

SUPERSEDES: n/a

APPROVED: Charles A Babish

Digitally signed by Charles A Babish
Date: 2020.07.01 09:55:30 -04'00

Charles A. Babish, PE
State Materials Engineer
Approved: ____________________________

EFFECTIVE DATE

• This memorandum is effective July 1, 2020

PURPOSE/NEED/SCOPE/REQUIREMENTS

Original text limited the requirements only to circular failure surfaces. As written, it now relates to all failure surfaces.

Changes are Shaded

PROCEDURES

• To establish minimum standards for slope stability determinations, the fourth paragraph of Section 305.03 has been changed. Refer to the following:

Circular Failure surfaces shall be analyzed by methods such as the Modified Bishop, Simplified Janbu, Morgenstern-Price, or Spencer methods. Spencer, Infinite Slope, or other methods as pre-approved by VDOT. Both drained and undrained strengths shall be considered. All slope stability analyses shall consider the effects of groundwater, external loads, tension cracks, and other pertinent factors as applicable.
NOTES

• n/a

REFERENCES

• n/a

COPY DISTRIBUTION:

Deputy Chief Engineer
Division Administrators
District Administrators
District Location & Design Engineers
District Construction Engineers
District Maintenance Engineers
District Bridge Engineers
District Traffic Engineers

VDOT Resident Engineers
Federal Highway Administration
Virginia Ready Mix Association
Precast Concrete Association of Virginia
Virginia Transportation Construction Alliance
Virginia Asphalt Association
American Concrete Paving Association Mid-Atlantic Chapter
Old Dominion Highway Contractors Association