

**Oregon Department of Transportation**

Delivery & Operations Division/

Engineering & Technical Services

7163 ­‑ Geotechnical Engineering,

Engineering Geology & Hazmat Section

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FILE CODE:

**DATE: Wednesday, November 22, 2023**

**TO:** Susan C. Ortiz, P.E., G.E.

 State Geotechnical Engineer

**FROM:** Susan C. Ortiz, P.E., G.E. **Phone:** Click here to enter phone #

State Geotechnical Engineer

 ODOT

**SUBJECT: Proposed Revision to Geotechnical Design Manual**

 **To Section Number** Chapter 1.3.2 Deviation from Geotechnical Standards

**Problem Statement:**

 Table 1.1: Technical Resources has been updated to include the most recent organizational changes.

**Proposal:**

### Deviation from Geotechnical Standards

All State of Oregon projects are required to meet ODOT design standards. Design deviation requests will be submitted for all STIP projects which do not meet standards. A request for a deviation from design standards is appropriate when the request benefits the project and is supported by rational engineering principles. Deviations to design standards should be discussed early in the design process with the assigned Technical Resource ([Table 1.1](#Table_1_1_Technical_Resources)).

For geotechnical design deviations, the proposal is prepared by the Professional of Record (POR) using the Geotechnical Design Deviation Request Form (Design [Deviation Reques](file://scdata/7163shar/GDM_File_Transfer/2021/Chapter%201/Deviation%20Form)t). The Design Deviation Request should be used to document the applicable geotechnical design standard(s) from which deviation is being requested. Provide a justification for the need and proposed solution for the deviation, and include the risks, hazards, consequences and effects of the deviation. The POR should coordinate with the project team when developing the request. A draft of the deviation request should be submitted to the applicable Technical Resource ([Table 1.1](#Table_1_1_Technical_Resources)) for review by the senior Headquarters staff, and recommendation made to the State Geotechnical Engineer. All Design Deviation Requests will be reviewed by Sr. Geologist, Sr. Geotechnical Engineer, and Technical Resource for recommendation to the Delegated Authority for approval. Subsequent discussions and negotiations concerning the deviation will generally be conducted between the Technical Resource and the Professional of Record. The final Design Deviation Request is filed in ProjectWise with concurrence signatures from the Tech Center Manager and notice provided to the Technical Resource that the document is available for approval.

The Design Deviation Request is available at the following link: Design [Deviation Request](https://www.oregon.gov/ODOT/GeoEnvironmental/Docs_GeologyGeotech/GDM_Deviation_request.docx).

Table .: Technical Resources

|  |  |  |  |
| --- | --- | --- | --- |
| **Pre-2022 Chapter** | **Chapter** | **Title** | **Technical Resource** |
| 1 | 1 | Introduction | Susan Ortiz |
| 23 | 2 | Quality Control & Quality Assurance | Susan Ortiz |
| 2 | 3 | Project Geotechnical Planning | Curran Mohney |
| 3 | 4 | Field Investigation | Curran MohneyCurtis Ehlers |
| Separate Manual | 5 | Soil and Rock Classification and Logging | Curran Mohney |
| 5 | 6 | Engineering Properties of Soil and Rock | Tom Grummon |
| 7 | 7 | Slope Stability Analysis | Tom Grummon |
| 20 | 8 | Material Sources Report | Michelle Wright |
| 9 | 9 | Embankments – Analysis and Design | Tom Grummon |
| 10 | 10 | Soil Cuts – Analysis and Design | Tom Grummon |
| 12 | 11 | Rock Cuts – Analysis, Design and Mitigation | Curran Mohney |
| 13 | 12 | Landslide Investigation and Mitigation | Curran Mohney |
| 6 | 13 | Seismic Design | Tom Grummon |
|  | 14 | Ground Improvement | Tom Grummon |
| 14 | 15 | Geosynthetic Design | Sophie Brown |
| 15 | 16 | Retaining Structures | Sophie Brown |
| 8, and 16 | 17 | Foundation Design  | Tom Grummon |
| 17 | 18 | Culverts and Trenchless Technology Design | Sophie Brown |
| 18 | 19 | Construction Recommendations and Reporting | Susan Ortiz |
| 21 | 20 | Geotechnical Reporting and Documentation | Susan Ortiz |

**Analysis / Research / Other Supporting Data:**

[ ] None

[ ] Attached:

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**Geotechnical Engineering, Engineering Geology & HazMat Section Response:**

[ ]  Accepted for consideration as submitted

[ ]  Accepted for consideration as noted

[ ]  Proposal tabled, see Remarks

[ ]  Proposal not accepted, see Remarks

**Remarks:**

[Enter Remarks here]

Susan C. Ortiz, PE, GE Tom Grummon

State Geotechnical Engineer State Foundation Engineer