

**Oregon Department of Transportation**

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Engineering & Technical Services

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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: Curran Mohney Phone: (503) 508-3628**

 **Engineering Geology Program Lead**

 Oregon Department of Transportation

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

 **To Section Number** 4.9

**Problem Statement:**

Current GDM Section 4.9 references the older AASHTO 1988 Manual on Subsurface Investigations for the base level of investigation.

[Provide a copy of the section being revised]

4.9 References

•AASHTO, 2007, LRFD Bridge Design Specifications, American Association of State Transportation

and Highway Officials, 17th Edition (with current Interims), Washington, D.C., USA.

•American Association of State Highway and Transportation Officials, Inc., 1988 Manual on

Subsurface Investigations.

•C.H. Dowding, Ed., Site Characterization & Exploration, ASCE Specialty Workshop Proceedings,

Northwestern University, 1978.

•Dunnicliff, John 1988. Geotechnical Instrumentation for Monitoring Field Performance, John Wiley

& Sons, New York.

•Oregon Department of Transportation, Hydraulics Manual, Geo-Environmental Section, 2005most current

version.

•Oregon Department of Transportation, Bridge Design Manual, Bridge Engineering Section, most current

version.

•U.S. Department of Transportation, Federal Highway Administration Evaluation of Soil and Rock

Properties, Geotechnical Engineering Circular No. 5, FHWA-IF-02-034, April, 2002.

•U.S. Department of Transportation,

https://www.fhwa.dot.gov/engineering/geotech/library\_sub.cfm?keyword=017, November, 1997.

•U.S. Department of Transportation, Federal Highway Administration Subsurface Investigations -

Geotechnical Site Characterization Reference Manual, Publication No. FHWA NHI-01-031,

May, 2002.

•https://pubs.usgs.gov/circ/1325/pdf/Sections/Section3.pdf, Pages 129-177.

•https://www.publications.usace.army.mil/Portals/76/Publications/EngineerManuals/EM\_1110-1-

1804.pdf U.S. Department of the Interior, Bureau of Reclamation, 1994, Engineering Geology Field

Manual.

•References are made to various ASTM standards. The ASTM International standards located at

https://www.astm.org/ (the “ASTM Site”).

**Proposal:**

GDM Section 4.9 should be revised to reflect adoption the updated 2022 2nd edition of the AASHTO Manual on Subsurface Investigations.

[Provide a copy of the proposed revised language here]

4.9 References

•AASHTO, 2007, LRFD Bridge Design Specifications, American Association of State Transportation

and Highway Officials, 17th Edition (with current Interims), Washington, D.C., USA.

•American Association of State Highway and Transportation Officials, Inc., 2022, Manual on

Subsurface Investigations, 2nd edition.

•C.H. Dowding, Ed., Site Characterization & Exploration, ASCE Specialty Workshop Proceedings,

Northwestern University, 1978.

•Dunnicliff, John 1988. Geotechnical Instrumentation for Monitoring Field Performance, John Wiley

& Sons, New York.

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https://www.fhwa.dot.gov/engineering/geotech/library\_sub.cfm?keyword=017, November, 1997.

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Geotechnical Site Characterization Reference Manual, Publication No. FHWA NHI-01-031,

May, 2002.

•https://pubs.usgs.gov/circ/1325/pdf/Sections/Section3.pdf, Pages 129-177.

•https://www.publications.usace.army.mil/Portals/76/Publications/EngineerManuals/EM\_1110-1-

1804.pdf U.S. Department of the Interior, Bureau of Reclamation, 1994, Engineering Geology Field

Manual.

•References are made to various ASTM standards. The ASTM International standards located at

https://www.astm.org/ (the “ASTM Site”).

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

[x] 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]

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