

Pilot Tube and Other Guided Boring Methods



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Pilot Tube and Other Guided Boring Methods

Prepared by
Task Committee on Pilot Tube and Other Guided Boring Methods of the
Committee on Trenchless Installations of Pipelines of the
Utility Engineering and Surveying Institute of the
American Society of Civil Engineers

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CONTENTS

PREFACE	ix
ACKNOWLEDGMENTS	xi
ABBREVIATIONS AND ACRONYMS	xiii
1. INTRODUCTION	1
References	5
2. THE PILOT TUBE AND OTHER GUIDED BORING	
METHODS IN DETAIL	7
2.1 Introduction to the Pilot Tube Method.....	7
2.2 Inserting the Pilot Tube.....	9
2.3 Enlarging the Pilot Tube Path.....	15
2.4 Pilot Tube as a Guide for Other Trenchless Methods	24
2.5 Variations and Refinements to the Pilot Tube Method and Other Guided Boring Methods	30
2.6 Applications	37
2.7 Benefits and Limitations.....	42
References	43
3. PLANNING	45
3.1 Initial Criteria.....	45
3.2 Site Conditions.....	52
3.3 Preliminary Geotechnical Considerations	59
3.4 Project Layout	60
3.5 Cost Considerations.....	63
References	72

4. SITE INVESTIGATION	73
4.1 General.....	73
4.2 Geotechnical Assessment	73
4.3 Utility Surveys	85
4.4 Traffic Flow and Access for Vehicles and Pedestrians.....	87
4.5 Environmental Conditions.....	88
4.6 Flood Zones.....	90
4.7 Seismic Considerations.....	91
References	93
5. SHAFT DESIGN	95
5.1 Jacking and Receiving Shafts.....	95
5.2 Location	96
5.3 Shaft Design Considerations	97
5.4 Trenchless Entry/Exit from Shafts	98
5.5 Thrust Blocks	98
5.6 Common Shafts	99
6. PIPE CHARACTERISTICS AND DESIGN.....	101
6.1 General Requirements	101
6.2 Material Types	101
6.3 Pipe Design	107
References	115
7. DESIGN AND CONTRACT DOCUMENTS	117
7.1 General.....	117
7.2 Design Memoranda/Technical Memoranda.....	118
7.3 Calculations.....	118
7.4 Design Considerations.....	118
7.5 Contract Documents	125
7.6 Dispute Resolution.....	130
7.7 Contractor Qualifications	131
References	133
8. CONSTRUCTION	135
8.1 General.....	135
8.2 Bidding.....	135
8.3 Submittals.....	136
8.4 Measurement and Payment.....	139
8.5 Jobsite Layout and Equipment Setup	142
8.6 Survey	143
8.7 Jacking and Receiving Shafts.....	147
8.8 Safety Issues	148
8.9 Differing Site Conditions.....	149
8.10 Traffic Control, Fencing, and Barricading	150

8.11 Quality Control.....	150
8.12 Jacking Forces and Lubricants	151
8.13 Spoils Transport and Disposal	152
8.14 Inspection and Monitoring	153
8.15 Reports and Records.....	154
8.16 As-Built Drawings and Documentation	154
References	155
GLOSSARY	157
INDEX	169

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PREFACE

This manual of practice was prepared by the Task Committee on Pilot Tube and Other Guided Boring Methods of the ASCE Committee on Trenchless Installation of Pipelines (TIPS), as part of the Utility Engineering & Surveying Institute (UESI). The manual describes the current pilot tube and other guided boring methods used by engineers and construction professionals in designing and installing pipelines to a design line and grade under roads, railroads, streets, and other constructed and natural structures and obstacles.

This manual of practice has been created by a group of engineers, owners, suppliers, manufacturers, and contractors fully knowledgeable of the method and its use. This manual takes into account many of the advances that have occurred over the years in the guiding of trenchless methods. Many of the sections provide a summary of the state of the industry as of 2016. The task committee acknowledges that the technology continues to change and that changes in construction continue to develop.

Sections have been written assuming the reader may be new to the various construction methods included in this manual. No document including this one can encompass all of the issues on a particular pilot tube or other guided boring project. Improvements in best practices and technology continue to evolve so quickly that consideration of this manual on any project must take into account not only the specific characteristics of the particular project but also further improvements in best practices and technology.

The engineer of a pipeline project is encouraged to consider all trenchless methods before concluding that the pilot tube and/or other guided boring methods are the most suitable construction methods available. Manuals and reports on engineering practice (known as *MOPs*) have been written by ASCE for different construction methods. A list of useful references is provided at the end of Chapter 1.