

PENN STREET BRIDGE REHABILITATION PROJECT

City of Reading & West Reading Borough



SCOPE OF WORK:

LEGEND



OPEN SPANDREL SPANS

- REPAIR/REPLACE FLOOR AND CURB AND SIDEWALK (SEE PLAN)
- REPAIR/REPLACE FLOOR
- ADD ROADWAY MARKINGS
- REPLACE GUTTER, FLOWLINE, SIDEWALK, AND FILLING
- REPLACE LIGHTING

CLOSED SPANDREL SPANS

- REPAIR/REPLACE FLOOR AND SIDEWALK (SEE PLAN)
- REPAIR/REPLACE FLOOR
- REPLACE FILL AND SIDEWALK
- REPLACE GUTTER AND SIDEWALK (SEE PLAN) & SIDEWALK FILLING
- REPLACE LIGHTING

RAMP A

- REPAIR/REPLACE FLOOR AND SIDEWALK (SEE PLAN)
- REPLACE SIDEWALK
- REPLACE GUTTER AND SIDEWALK (SEE PLAN) & SIDEWALK FILLING

"CHANGING" SPAN 4 - SPAN 5

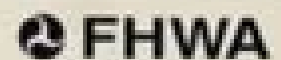
- REPLACE GUTTER, SIDEWALK, AND FILLING (SEE PLAN) & SIDEWALK FILLING

DESIGNED BY
Flannery Flooding



pennsylvania
DEPARTMENT OF TRANSPORTATION

PROJECT PLAN
July 2013



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Penndot Drainage Manual

**Pennsylvania. General Assembly.
Legislative Budget and Finance
Committee**

Penndot Drainage Manual:

PennDOT Drainage Manual Pennsylvania. Department of Transportation, 2008 **Mon/Fayette Transportation Project, from I-68 in Monongalia County, WV to Route 43 (formerly Chadville Demonstration Project) in Fayette County, PA**, 1994 **PennDOT's Management & Monitoring Systems** Pennsylvania. Department of Transportation, 1996 Mastering AutoCAD Civil 3D 2013 Louisa Holland, Kati Mercier, 2012-07-18 A complete tutorial and reference for AutoCAD Civil 3D 2013 Autodesk's Civil 3D is the leading civil engineering software and this reliable training guide has been thoroughly revised and updated to offer a fresh perspective on this powerful engineering package Filled with illustrative examples new datasets and new tutorials this book shows how elements of the dynamic engineering program work together and discusses the best methods for creating editing displaying and labeling all of a civil engineering project's elements The book's straightforward explanations real world examples and practical tutorials focus squarely on teaching vital Civil 3D tips tricks and techniques The authors' extensive real world experience and Civil 3D expertise allows them to focus on how the software is used in real world professional environments and present topics and techniques that are not documented elsewhere Offers an overview of key concepts and the software's interface Discusses the best methods for creating editing displaying and labeling all of a civil engineering project's elements Features in depth detailed coverage of surveying points alignments surfaces profiles corridors grading LandXML and LDT Project Transfer cross sections pipe networks visualization sheets and project management as well as Vault and data shortcuts Offers help for the Civil 3D Certified Associate and Certified Professional exams This book is the only complete detailed reference and tutorial for Autodesk's extremely popular and robust civil engineering software **Conduct of Research at PennDOT, Manual of Activities** M. A. Bonini, R. A. Garrett, 2005 *Lehigh River Basin-Frances E. Walter Dam and Reservoir Modification GDM*, 1986 *Mastering AutoCAD Civil 3D 2014* Louisa Holland, Cyndy Davenport, Eric Chappell, 2013-08-26 The complete detailed reference and tutorial for AutoCAD Civil 3D 2014 AutoCAD Civil 3D is the industry leading civil engineering software and this authoritative Autodesk Official Press book has been completely updated to offer you the latest tips tricks and techniques of this dynamic engineering program Packed with new real world examples and practical tutorials this book takes advantage of the authors' extensive experience and Civil 3D expertise which allows them to share best practices and methods for creating editing displaying labeling and presenting real world civil engineering projects Features a new expanded section on advanced survey tools Offers in depth detailed coverage of surveying points alignments surfaces profiles corridors grading LandXML and LDT Project Transfer cross sections pipe networks visualization sheets and project management Includes valuable content to help prepare you for the Civil 3D certification exams as well as downloadable datasets Shares the most up to date topics and techniques of the real world to help prepare you for what you can expect This comprehensive reference and tutorial is essential reading for gaining a thorough understanding of the key concepts of this engineering software

Mastering AutoCAD Civil 3D 2012 Richard Graham, Louisa Holland, 2011-06-15 A complete detailed reference and tutorial for AutoCAD Civil 3D Autodesk's Civil 3D is the industry leading civil engineering software and this authoritative Autodesk Official Training Guide has been completely revised and modernized to offer you a fresh perspective on this powerful engineering package Packed with new examples new datasets and new tutorials this book shows how elements of the dynamic engineering program work together and discusses the best methods for creating editing displaying and labeling all of a civil engineering project's elements The book features in depth detailed coverage of surveying points alignments surfaces profiles corridors grading LandXML and LDT Project Transfer cross sections pipe networks visualization sheets and project management as well as Vault and data shortcuts Practical tutorials tips tricks real world examples and easy to follow explanations detail all aspects of a civil engineering project This Mastering book is recommended as a Certification Preparation study guide resource for the Civil 3D Associate and Professional exams Features in depth detailed coverage of AutoCAD Civil 3D the enormously popular civil engineering software Shows how elements of the dynamic engineering program work together and discusses the best methods for creating editing displaying and labeling all of a civil engineering project's elements Shares straightforward explanations real world examples and practice tutorials on surveying points alignments surfaces profiles corridors grading and much more In addition to teaching you vital Civil 3D tips tricks and techniques Mastering AutoCAD Civil 3D will also help you prepare for the Civil 3D 2011 Certified Associate and Certified Professional exams

Proposed Practice for Alternative Bidding of Highway Drainage Systems Michael L. J. Maher, Gregory Hebel, Andrew Fuggle, Colby L. Caywood, Kenneth R. Avery, Joseph VanKerkhove, Ian D. Moore, 2015 TRB's National Cooperative Highway Research Program NCHRP Report 801 Proposed Practice for Alternative Bidding of Highway Drainage Systems explores the application of a performance based process for selection of drainage pipe systems The selection process is based on satisfying performance criteria for the drainage system while considering the full range of suitable pipe materials Publisher's description [State Publications Directory](#), 1996 [Innovative Earth-retaining Systems](#) National Research Council (U.S.). Transportation Research Board, 1989

Streets and Sidewalks College (Pa. : Township), 1988 *Central Bradford County Traffic Improvement Project, US 6 Highway Through Towanda Borough and North Towanda Township to US 220, Bradford County*, 1999 [Subbase Permeability and Pavement Performance](#) Keith L. Highlands, Pennsylvania. Bureau of Bridge and Roadway Technology, Gary L. Hoffman, 1987 [Performance Audit](#) [Pennsylvania Department of Transportation](#) Pennsylvania. General Assembly. Legislative Budget and Finance Committee, 2002

Best Management Practices for Environmental Issues Related to Highway and Street Maintenance William Albert Hyman, Donald Vary, 1999 This synthesis report will be of interest to state local and federal agency environmental and maintenance administrators directors supervisors engineers and scientists It describes current best management practices BMPs for environmental issues related to road and street maintenance The synthesis documents

relevant background and recent information with regard to management practices that can help protect preserve or enhance the environment while at the same time allow road maintenance organizations to carry out their fundamental mission of maintenance and repair in a cost effective manner Information for the synthesis was collected by surveying U S and Canadian state and local transportation agencies and by conducting a literature search using domestic sources This report of the Transportation Research Board describes BMPs consisting of broad management approaches applicable to the entire maintenance program or to more than one program area In addition BMPs for specific maintenance activities or groups of maintenance activities are included Finally BMPs concerning specific environmental issues are discussed *Decisions of the Public Service Commission of the Commonwealth of Pennsylvania* Pennsylvania Public Utility Commission, Pennsylvania. Public Service Commission, 1992 **Geocomposite Pavement Drain Systems, 1991** National Research Council (U.S.). Transportation Research Board, 1991 User's Manual for Premining Planning of Eastern Surface Coal Mining: MINE DRAINAGE MANAGEMENT AND MONITORING: Overview of the mine drainage control problem , 1981 *Government Reports Announcements & Index* , 1996-09

Embracing the Melody of Phrase: An Emotional Symphony within **Penndot Drainage Manual**

In a global used by monitors and the ceaseless chatter of quick conversation, the melodic elegance and emotional symphony created by the published term often disappear into the backdrop, eclipsed by the persistent noise and interruptions that permeate our lives. But, situated within the pages of **Penndot Drainage Manual** a wonderful fictional treasure overflowing with organic emotions, lies an immersive symphony waiting to be embraced. Constructed by a masterful musician of language, this captivating masterpiece conducts visitors on a mental journey, skillfully unraveling the hidden songs and profound influence resonating within each carefully constructed phrase. Within the depths with this emotional examination, we will discover the book is key harmonies, analyze its enthralling writing design, and surrender ourselves to the profound resonance that echoes in the depths of readers souls.

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