

CIVIL 3D FULL TUTORIAL

4 Hours For Beginners

Surface Topography (Contour)

Surface Profile

Horizontal & vertical profile of Alignment

Centerline Creation

Corridor Cut & Fill Analysis

Intersection

Railway Network

Multiple Section Views of Chainage



Civil 3d Tutorial

Richard Graham,Louisa Holland

Civil 3d Tutorial:

AutoCAD Civil 3D 2016 Essentials Eric Chappell, 2015-05-11 Start designing today with this hands on beginner's guide to AutoCAD Civil 3D 2016. AutoCAD Civil 3D 2016 Essentials gets you quickly up to speed with the features and functions of this industry leading civil engineering software. This full color guide features approachable hands on exercises and additional task based tutorials that help you quickly become productive as you master the fundamental aspects of AutoCAD Civil 3D design. Each chapter opens with a quick discussion of concepts and learning goals and then briskly moves into tutorial mode with screen shots that illustrate each step of the process. The emphasis is on skills rather than tools and the clear delineation between why and how makes this guide ideal for quick reference. The companion website provides starting and ending files for each exercise so you can jump in at any point and compare your work with the pros. Centered around the real world task of designing a residential subdivision these exercises get you up to speed with the program's functionality while also providing the only Autodesk endorsed preparation for the AutoCAD Civil 3D certification exam. Master the AutoCAD Civil 3D 2016 interface and basic tasks. Model terrain using imported field survey data. Analyze boundaries, pipe networks, surfaces and terrain. Estimate quantities and create construction documentation. If you're ready to acquire this must have skillset AutoCAD Civil 3D 2016 Essentials will get you up to speed quickly and easily.

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.

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

AutoCAD Civil 3D 2015 Essentials Eric Chappell,2014-06-30 Learn the leading civil engineering software fast and in full color If you need to learn the core features and functions of AutoCAD Civil 3D now this is the book for you AutoCAD Civil 3D Essentials uses full color screenshots and tutorials based on real workflows to teach you the fundamentals of this industry leading civil engineering software Award winning instructor Eric Chappell has been using and teaching Civil 3D since its first release and his to the point explanations of crucial Civil 3D topics mean that you ll learn what you need to know quickly and efficiently In each chapter you will progress from guided tutorials to open ended civil projects and can download before and after project files to check your work or jump directly to the section of the book you need AutoCAD Civil 3D Essentials will have you designing implementing and documenting civil engineering projects in no time As an Autodesk Official Press book AutoCAD Civil 3D Essentials is approved as a study guide for Civil 3D certification exams The proven skills based approach of this guide focuses on enabling you to fully leverage the capabilities of this powerful software Here are a few of the skills you will learn as you work through this comprehensive book Working with field survey data point data and stakeout data Modeling terrain and boundaries using surfaces and parcels Using profiles alignments corridors and quantities Creating construction documentation and project visualizations

Mastering AutoCAD Civil 3D 2008 Dana Probert,James Wedding,2008-01-03 Understand concepts create perfect designs and manage every stage of a project with this thorough guide to Autodesk s powerful civil engineering software Authored by experts with close ties to Autodesk and the Civil 3D community it features an in depth tutorial based approach grounded in real world examples so that you get the very most out of Civil 3D This practical guide focuses squarely on how to use the software in a production environment and provides insights insider tips and advanced techniques you won t find anywhere else

AutoCAD Civil 3D 2013

Essentials Eric Chappell,2012-05-11 The hands on resource for quickly learning AutoCAD Civil 3D 2013 This Autodesk Official Training Guide features straightforward explanations and real world hands on exercises and tutorials to quickly teach new users the software s core features and functions Each full color chapter offers a discussion of concepts and learning goals and includes an approachable hands on exercise that helps build confidence The book is filled with full color screenshots to illustrate tutorial steps and will help you quickly thrive in Civil 3D s dynamic powerful environment This thorough revision even includes access to video walkthroughs of the additional suggested exercises Shows how to turn survey field data into maps and drawings and create 3D models of existing terrain Covers how to construct 3D road models with the new 2013 workflows design entire communities using parcels and create detail models of underground and pressure pipe networks Explains reshaping terrain in 3D with grading tools and design surfaces and how to leverage automation to produce construction documents quickly This great reference and tutorial also features a companion website with dataset downloads so readers can jump in anywhere and also compare their work to that of professionals

Mastering AutoCAD

Civil 3D 2011 James Wedding,Scott McEachron,2010-08-05 The only comprehensive reference and tutorial for Civil 3D 2011 Civil 3D is Autodesk s popular robust civil engineering software and this fully updated guide is the only one endorsed by Autodesk to help students prepare for certification exams Packed with expert tips tricks techniques and tutorials this book covers every aspect of Civil 3D 2011 the preferred software package for designing roads highways subdivisions drainage and sewer systems and other large scale civic projects This is the official Autodesk endorsed guide to Civil 3D the leading software for designing large scale civic systems such as highways subdivisions and sewer systems Covers all the key concepts the software interface and best methods for creating editing displaying and labeling all elements of a civic engineering project 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 Includes what students need to pass the Civil 3D 2011 Certified Associate and Certified Professional exams Mastering AutoCAD Civil 3D 2011 is a complete course in the real world application of Civil 3D as well as the ultimate study guide for certification

Mastering AutoCAD Civil 3D 2009 James Wedding, P.E.,Dana Probert, E.I.T.,2008-09-11 If you already possess some background in Civil 3D but want to broaden your understanding of this popular civil engineering software Mastering AutoCAD Civil 3D 2009 will provide you with detailed coverage of advanced topics like surveying LandXML and LDT Project Transfer cross sections pipe networks visualization project management and data shortcuts Many of the featured topics and techniques directly applicable to the civil engineering profession are previously undocumented Practical tutorials tips tricks real world examples and easy to follow explanations detail all aspects of a civil engineering project For Instructors Teaching supplements are available for this title

Mastering AutoCAD Civil 3D 2016 Cyndy Davenport,Ishka

Voiculescu,2015-08-31 Utilize AutoCAD Civil 3D 2016 for a real world workflow with these expert tricks and tips Mastering

AutoCAD Civil 3D 2016 is a complete detailed reference and tutorial for Autodesk's extremely popular and robust civil engineering software. With straightforward explanations, real world examples, and practical tutorials, this invaluable guide walks you through everything you need to know to be productive. The focus is on real world applications in professional environments, with all datasets available for download and thorough coverage helps you prepare for the AutoCAD Civil 3D certification exam with over an hour's worth of video on crucial tips and techniques. You'll learn how to navigate the software and use essential tools and how to put it all together in the context of a real world project. In depth discussion covers surveying, alignments, surface grading, cross sections, and more, and instructor support materials provide an ideal resource for training and education. This book will take you from beginner to pro so you can get the most out of AutoCAD Civil 3D every step of the way. Understand key concepts and get acquainted with the interface. Create, edit, and display all elements of a project. Learn everything you need to know for the certification exam. Download the datasets and start designing right away. With expert insight, tips, and techniques, Mastering AutoCAD Civil 3D 2016 helps you become productive from the very beginning.

Mastering AutoCAD Civil 3D 2015 Cyndy Davenport, Ishka Voiculescu, 2014-08-06

The most complete resource for learning AutoCAD Civil 3D. Mastering AutoCAD Civil 3D is the ultimate guide to the new standard in civil engineering software. With combined experience in both civil engineering and Autodesk Civil 3D, authors Cyndy Davenport and Ishka Voiculescu guide you through the ins and outs of the program, from the fundamentals to the little known tricks that make a big difference. The book focuses on real world applications in professional environments and presents topics and ideas not found anywhere else. Lessons begin simply with an overview of the software and interface, and then gradually progress to more complex topics. AutoCAD Civil 3D is the standard software for civil engineering and design. From surveying and mapping to design to documentation and analysis, the program offers expanded capabilities and complementary workflows, allowing easy integration with InfraWorks, Revit Structure, and more. The ability to complete a project within a single suite means increased productivity and continuity, which translates into quicker turnaround, better designed structures, and streamlined project management. The savvy civil engineering professional must be well versed in the program's full functionality as it expands throughout government agencies and private companies. This book features in-depth coverage of topics including Surveying, points and alignments, Profiles, corridors and grading, LandXML and LDT project transfer, Visualization sheets, and project management. The book also features downloadable datasets that enable you to access the lessons most relevant to your needs and includes an objectives map to help you prepare for the Civil 3D certification exam. For the civil engineering professional hoping to remain relevant in a changing industry, Mastering AutoCAD Civil 3D is the ultimate resource.

Introducing AutoCAD Civil 3D 2010 James Wedding, Rick Graham, 2009-07-15

Two civil engineering experts present a focused, no-nonsense introduction to Autodesk's civil engineering software, AutoCAD Civil 3D. It is the industry-leading civil engineering software, and this well-structured resource features focused discussions and practical exercises to

help you quickly learn its core features Reinforced with real world tutorials drawn from the authors extensive experience it enables you to become productive in a hurry Introducing AutoCAD Civil 3D 2010 begins with an overview of key concepts and the software s interface then discusses styles and tools so you can understand the basics of building After you grasp the concepts 50 pages of exercises give you actual practice with Civil 3D s capabilities Includes an overview of key Civil 3D concepts and gives you the interface instruction needed to immediately begin working with the program Features in depth detailed coverage of lines and arcs points surveying parcels surfaces alignments profiles corridors grading sections pipes and project management Concludes with 50 pages of practical exercises to reinforce concepts Companion Web site includes all files needed to complete the tutorials so you can compare your work with that of the experts Introducing AutoCAD Civil 3D 2010 is the practical reference you need to quickly become productive with Civil 3D For Instructors Teaching supplements are available for this title *AutoCAD Civil 3D 2014 Essentials* Eric Chappell,2013-06-14 Quickly learn essential Civil 3D tools and techniques Get a thorough introduction to AutoCAD Civil 3D the industry leading engineering software used to design roads highways subdivisions drainage and sewer systems and more This Autodesk Official Press book is a unique learning resource that features concise straightforward explanations and real world hands on exercises and tutorials With compelling full color screenshots and approachable exercises that demonstrate core features and functions the book helps you gain understanding and confidence as you master this premiere civil engineering software Introduces the software s interface and foundational concepts Follows a workflow based approach that mirrors how projects progress in the real world and guides you through importing and working with field survey data managing point data with groups and styles and modeling terrain using surfaces Covers creating and editing alignments and profiles designing 3D road models building and analyzing terrain models designing and analyzing pipe networks and much more Shows how to estimate quantities and create construction documentation Provides information to help you prepare for the Civil 3D certification exam AutoCAD Civil 3D Essentials is the perfect real world introduction to the powerful civil engineering software

Introducing AutoCAD Civil 3D 2009 James Wedding,Dana Probert,2008-10-03 Learn the basics of AutoCAD Civil 3D easily and efficiently from the straightforward explanations and realistic exercises in Introducing AutoCAD Civil 3D 2009 In this helpful introductory guide you will find an overview of key concepts and in depth detailed coverage of special topics like lines and arcs points surveying parcels surfaces alignments profiles corridors grading sections pipes and project management If you are a civil engineer or civil engineering student you will understand how to apply AutoCAD Civil 3D to real world professional situations after reading this book For Instructors Teaching supplements are available for this title *Mastering AutoCAD Civil 3D 2010* James Wedding,Scott McEachron,2009-07-27 **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

Exploring AutoCAD Civil 3D 2022, 11th Edition

Prof. Sham Tickoo, 2021-11-18 Exploring AutoCAD Civil 3D 2022 book introduces the users to the powerful Building Information Modeling BIM solution AutoCAD Civil 3D The BIM solution in AutoCAD Civil 3D helps create and visualize a coordinated data model This data model can then be used to design and analyze a civil engineering project for its optimum and cost effective performance This book has been written considering the needs of the professionals such as engineers surveyors watershed and storm water analysts land developers and CAD technicians who wish to learn and explore the usage and abilities of AutoCAD Civil 3D in their respective domains This book provides comprehensive text and graphical representation to explain various concepts and procedures required in designing solutions for various infrastructure works The accompanying tutorials and exercises which relate to the real world projects help you better understand the tools in AutoCAD Civil 3D This book consists of 13 chapters covering Points Creations Surface Creations Surface Analysis Corridor Modeling Pipe Networks Pressure Networks and Parcels and so on The book covers the basic as well as advanced concepts in AutoCAD Civil 3D such as COGO points surfaces and surface analysis alignments profiles sections grading assemblies corridor modeling earthwork calculations and pipe and pressure networks This edition covers the description of all enhancements and newly introduced tools Salient Features Consists of 13 chapters that are arranged in pedagogical sequence Comprehensive coverage of concepts and tools covering the scope of the software Contains 810 pages 50 tutorials about 26 exercises and more than 770 illustrations Real world engineering projects used in tutorials exercises and explaining various tools and concepts Step by step examples to guide the users through the learning process Additional information provided throughout the book in the form of tips and notes Self Evaluation test Review Questions and Exercises at the end of each chapter so that the users can assess their knowledge Table of Contents Chapter 1 Introduction to AutoCAD Civil 3D 2022 Chapter 2 Working with Points Chapter 3 Working with Surfaces Chapter 4 Surface Volumes and Analysis Chapter 5 Alignments Chapter 6 Working with Profiles Chapter 7 Working with Assemblies and Subassemblies Chapter 8 Working with Corridors and Parcels Chapter 9 Sample Lines Sections and Quantity Takeoffs Chapter 10 Feature Lines and Grading

Chapter 11 Pipe Networks Chapter 12 Pressure Networks Chapter 13 Working with Plan Production Tools and Data Shortcuts Index [Exploring AutoCAD Civil 3D 2018, 8th Edition](#) Prof. Sham Tickoo, 2018-01-12 Exploring AutoCAD Civil 3D 2018 book introduces the users to the powerful Building Information Modeling BIM solution AutoCAD Civil 3D The BIM solution in AutoCAD Civil 3D helps create and visualize a coordinated data model This data model can then be used to design and analyze a civil engineering project for its optimum and cost effective performance This book has been written considering the needs of the professionals such as engineers surveyors watershed and storm water analysts land developers and CAD technicians who wish to learn and explore the usage and abilities of AutoCAD Civil 3D in their respective domains This book provides comprehensive text and graphics to explain various concepts and procedures required in designing solutions for various infrastructure works The accompanying tutorials and exercises which relate to the real world projects help you better understand the tools in AutoCAD Civil 3D This book consists of 13 Chapters covering Points Creations Surface Creations Surface Analysis Corridor Modeling Pipe Networks Pressure Networks Parcels Corridor Bowties and Dynamic Profiles and so on Each chapter begins with a command section that provides a detailed explanation of the commands and tools in AutoCAD Civil 3D The chapters in this book cover the basic as well as advanced concepts in AutoCAD Civil 3D such as COGO points surfaces and surface analysis alignments profiles sections grading assemblies corridor modeling earthwork calculations and pipe and pressure networks This edition covers the description of all enhancements and newly introduced tools Salient Features Consists of 13 chapters that are arranged in pedagogical sequence covering the scope of the software Consists of 806 pages more than 765 illustrations and a comprehensive coverage of concepts and tools Consists of 38 tutorials and about 20 exercises which provide real world experience of designing engineering projects using AutoCAD Civil 3D Step by step examples to guide the users through the learning process Additional information provided throughout the book in the form of tips and notes Self Evaluation test Review Questions and Exercises are given at the end of each chapter so that the users can assess their knowledge Table of Contents Chapter 1 Introduction to AutoCAD Civil 3D 2018 Chapter 2 Working with Points Chapter 3 Working with Surfaces Chapter 4 Surface Volumes and Analysis Chapter 5 Alignments Chapter 6 Working with Profiles Chapter 7 Working with Assemblies and Subassemblies Chapter 8 Working with Corridors and Parcels Chapter 9 Sample Lines Sections and Quantity Takeoffs Chapter 10 Feature Lines and Grading Chapter 11 Pipe Networks Chapter 12 Pressure Networks Chapter 13 Working with Plan Production Tools and Data Shortcuts Index [Autodesk Civil 3D for Beginners 2026](#) Michael Collins, 2025-10-24 Autodesk Civil 3D for Beginners 2026 A Step by Step Practical Guide to Civil Engineering Design Land Development and Real World Infrastructure Projects Frustrated by complex Civil 3D tutorials that leave you more confused than confident You're not alone Many beginners struggle with crowded interfaces scattered workflows and unclear explanations This book changes that turning confusion into clarity one project at a time What you'll accomplish Create and analyze terrain models alignments and corridors with

precision Design roadways and land development projects using practical repeatable workflows Produce profiles cross sections grading plans and sheet sets ready for review Work with survey data and manage drawings efficiently for real project teams Apply each skill to real world infrastructure scenarios not just theory Why this guide stands out Project driven lessons that show the why and the how Plain step by step language no fluff no guesswork Industry aware tips that help you think like a civil engineer Who it's for Civil engineering students and entry level professionals Surveyors CAD technicians and land developers new to Civil 3D Anyone who wants a clear practical path from beginner to capable designer Stop getting lost in menus start designing with confidence With this guide Civil 3D finally makes sense empowering you to build the roads sites and infrastructure of tomorrow [Exploring AutoCAD Civil 3D 2023, 12th Edition](#) Prof. Sham Tickoo, 2022-07-28

Exploring AutoCAD Civil 3D 2023 book introduces the users to the powerful Building Information Modeling BIM solution AutoCAD Civil 3D The BIM solution in AutoCAD Civil 3D helps create and visualize a coordinated data model This data model can then be used to design and analyze a civil engineering project for its optimum and cost effective performance This book has been written considering the needs of the professionals such as engineers surveyors watershed and storm water analysts land developers and CAD technicians who wish to learn and explore the usage and abilities of AutoCAD Civil 3D in their respective domains This book provides comprehensive text and graphical representation to explain various concepts and procedures required in designing solutions for various infrastructure works The accompanying tutorials and exercises which relate to the real world projects help you better understand the tools in AutoCAD Civil 3D This book consists of 13 chapters covering Points Creations Surface Creations Surface Analysis Corridor Modeling Pipe Networks Pressure Networks and Parcels and so on The chapters are organized in a pedagogical sequence to help users understand the concepts easily Each chapter begins with a command section that provides a detailed explanation of the commands and tools in AutoCAD Civil 3D The chapters in this book cover the basic as well as advanced concepts in AutoCAD Civil 3D such as COGO points surfaces and surface analysis alignments profiles sections grading assemblies corridor modeling earthwork calculations and pipe and pressure networks This edition covers the description of all enhancements and newly introduced tools Salient Features Consists of 13 chapters that are arranged in pedagogical sequence Comprehensive coverage of concepts and tools covering the scope of the software Contains 812 pages 50 tutorials about 26 exercises and more than 770 illustrations Real world engineering projects used in tutorials exercises explaining various tools and concepts Step by step examples to guide the users through the learning process Additional information provided throughout the book in the form of tips and notes Self Evaluation test Review Questions and Exercises at the end of each chapter so that the users can assess their knowledge Table of Contents Chapter 1 Introduction to AutoCAD Civil 3D 2023 Chapter 2 Working with Points Chapter 3 Working with Surfaces Chapter 4 Surface Volumes and Analysis Chapter 5 Alignments Chapter 6 Working with Profiles Chapter 7 Working with Assemblies and Subassemblies Chapter 8 Working with Corridors and Parcels Chapter 9 Sample Lines Sections and

Quantity Takeoffs Chapter 10 Feature Lines and Grading Chapter 11 Pipe Networks Chapter 12 Pressure Networks Chapter 13 Working with Plan Production Tools and Data Shortcuts Index **Exploring AutoCAD Civil 3D 2020, 10th Edition**

Prof. Sham Tickoo, 2020-04-04 Exploring AutoCAD Civil 3D 2020 book introduces the users to the powerful Building Information Modeling BIM solution AutoCAD Civil 3D. The book helps you learn, create, and visualize a coordinated data model that can be used to design and analyze a civil engineering project for its optimum and cost effective performance. This book has been written considering the needs of the professionals such as engineers, surveyors, watershed and storm water analysts, land developers, and CAD technicians who wish to learn and explore the usage and abilities of AutoCAD Civil 3D in their respective domains. This book provides comprehensive text and graphical representation to explain concepts and procedures required in designing solutions for various infrastructure works. The tutorials and exercises which relate to real world projects help you better understand the tools in AutoCAD Civil 3D. Salient Features Chapters arranged in pedagogical sequence. Comprehensive coverage of concepts and tools covering the scope of the software. Real world engineering projects used in tutorials and exercises. Step by step examples to guide the users through the learning process. Additional information provided throughout the book in the form of tips and notes. Self Evaluation test, Review Questions, and Exercises at the end of each chapter so that the users can assess their knowledge. Table of Contents Chapter 1 Introduction to AutoCAD Civil 3D 2020 Chapter 2 Working with Points Chapter 3 Working with Surfaces Chapter 4 Surface Volumes and Analysis Chapter 5 Alignments Chapter 6 Working with Profiles Chapter 7 Working with Assemblies and Subassemblies Chapter 8 Working with Corridors and Parcels Chapter 9 Sample Lines Sections and Quantity Takeoffs Chapter 10 Feature Lines and Grading Chapter 11 Pipe Networks Chapter 12 Pressure Networks Chapter 13 Working with Plan Production Tools and Data Shortcuts Index

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