

TABLE OF CONTENTS

PREFACE

CERTIFICATION

SECTION 1000: DEFINITIONS AND ABBREVIATIONS

1010 DEFINITIONS
1020 ABBREVIATIONS

SECTION 2000: GENERAL PROVISIONS

2010 GENERAL
2015 QUALITY OF WORK
2016 PRECONSTRUCTION CONFERENCE
2020 QUALITY OF MATERIALS
2025 SUBMITTALS
2030 INSPECTIONS
2040 CLEARING AND GRUBBING
2050 EARTHWORK
2060 MAINTENANCE OF TRAFFIC
 A. General
 B. Materials
 C. Installation and Maintenance
2070 CONCRETE
2080 PERMITS
 A. Town Permits
 B. NCDOT Permits
2090 ACCEPTANCE PROCEDURES
 A. Corrections Period
 B. Final Acceptance
2100 ENCROACHMENTS WITHIN TOWN UTILITY EASEMENTS
 A. Easements
 B. Encroachments
2110 CONTRACTOR LICENSE REQUIREMENTS
2120 RETAINING WALLS
2130 OSHA STANDARDS
2140 SAFETY AND HEALTH HAZARDS

SECTION 3000: STREETS

3010 GENERAL
3020 DESIGN CONTROLS AND CRITERIA
 A. Street Classifications
 B. Design Speed
 C. Traffic Composition

- 3030 D. Street Intersection Spacing
- 3030 TYPICAL CROSS SECTION ELEMENTS
 - A. Roadway
 - B. Roadside
 - C. Median Sections
 - D. Directional Cross-over (Left-over)
 - E. Roundabouts
- 3040 GENERAL DESIGN ELEMENTS
 - A. Horizontal Alignment Controls
 - B. Vertical Alignment Controls
 - C. Traffic Control
 - D. Pedestrian Facilities
 - E. Bicycle Facilities
 - F. Street Lighting
 - G. Curb Ramps
 - H. Right-of-way Encroachment
 - I. Work Zone Traffic Control
- 3050 SPECIFIC DESIGN ELEMENTS
 - A. Intersections
 - B. Parking Lots
 - C. Fire Lane
 - D. Central Mail Delivery
 - E. Transit Infrastructure
- 3055 DRIVEWAY ACCESS REGULATIONS & REQUIREMENTS
 - A. Town Driveway Connection Permit
 - B. NCDOT Driveway Permit
 - C. Inspection
 - D. Work Zone Traffic Control
 - E. Driveway Design Criteria
 - F. Access Design Parameters
 - G. Access Management
- 3060 MATERIALS
- 3070 CONSTRUCTION AND INSPECTION
 - A. Streets
 - B. Curb and Gutter, and Sidewalks

List of Section 3000 Figures

- Figure 1 Geometric Design Standards for Streets
- Figure 2 Parking Lot Stall Dimensions
- Figure 3 Triassic Soil Boundary Map
- Figure 4 Intersection Sight Distance for Left, Right, and Through Movements from Side Street
- Figure 5 Intersection Sight Distance for Left Turn Movements from Through Street
- Figure 6 Driveway Channelization
- Figure 7 Driveway Placement from an Unsignalized Intersection

- Figure 8 Driveway Placement from a Signalized Intersection
- Figure 9 Driveway Separation from Adjacent Driveways
- Figure 10 Driveway Separation from Property Lines

SECTION 4000: SOIL EROSION, SEDIMENTATION CONTROL AND LANDSCAPING

- 4010 SCHEDULING
- 4020 TEMPORARY MEASURES
- 4030 PERMANENT MEASURES
- 4040 COMPUTATIONS
- 4050 CONSTRUCTION SEQUENCE

SECTION 5000: UTILITY TRENCHES

- 5010 EXCAVATION AND PREPARATION
 - A. Preparation
 - B. Trenching
- 05020 PIPE LAYING AND BACKFILLING
 - A. General Requirements
- 5030 PAVEMENT REPAIRS
 - A. Open Trench Pavement Repair
- 5040 TRENCHLESS PIPE INSTALLATION
 - A. Design
 - B. Materials
 - C. Installation
- 5050 EXTERNAL CORROSION PROTECTION

SECTION 6000: WATER DISTRIBUTION SYSTEM

- 6010 WATER DISTRIBUTION PIPE
 - A. Design
 - B. Materials
 - C. Installation
- 6020 FIRE PROTECTION
 - A. Fire Hydrants
 - B. Automatic Fire Sprinkler Systems
 - C. Fire Protection During Construction
- 6030 VALVES AND APPURTENANCES
 - A. Valves
 - B. Appurtenances
- 6040 WATERMAIN TAPS AND SERVICES
 - A. Design
 - B. Materials
- 6050 IRRIGATION SYSTEMS
- 6060 TESTING AND INSPECTION

	A. General
	B. Testing
6070	REPAIR AND REHABILITATION
SECTION 6200:	CROSS CONNECTION CONTROL
6200	CROSS CONNECTION CONTROL
	A. Approved Backflow Prevention Assemblies
	B. Installation of Assemblies
	C. Facilities Requiring Protection
	D. Testing and Test Equipment
SECTION 6500:	RECLAIMED WATER DISTRIBUTION SYSTEM
6510	GENERAL
6520	RECLAIMED WATER DISTRIBUTION PIPE
	A. Design
	B. Pipe Materials
	C. Installation
	D. Pipeline Identification and Marking
6530	VALVES AND APPURTENANCES
	A. Valves
	B. Appurtenances
6540	RECLAIMED WATER TAPS AND SERVICES
	A. Design
	B. Materials
6550	RECLAIMED WATER IRRIGATION SYSTEMS IN PUBLIC RIGHT-OF-WAY
6560	TESTING AND INSPECTION
	A. General
	B. Testing
6570	REPAIR OF RECLAIMED WATER SYSTEM
SECTION 7000:	WASTEWATER COLLECTION SYSTEMS
7010	GRAVITY SEWER
	A. Design
	B. Materials
	C. Sewer Main Installation
	D. Pipeline Identification and Marking
7020	MANHOLES
	A. Design
	B. Materials
	C. Installation
7030	SERVICE CONNECTIONS
	A. Design
	B. Materials
	C. Installation

- 7040 TESTING AND INSPECTIONS
 - A. General
 - B. Sewer Main and Service Connection Testing
 - C. Manhole Testing
- 7050 AERIAL CROSSINGS
 - A. Design
 - B. Pipe Materials
 - C. Installation
- 7060 REPAIRS AND MODIFICATIONS
 - A. Sewer Main Repairs
 - B. Installation
 - C. Abandonment
 - D. Draining Sewer Mains

SECTION 7200: WASTEWATER FORCE MAINS

- 7210 GENERAL
- 7220 WASTEWATER FORCE MAINS
 - A. Design
 - B. Materials
 - C. Installation
 - D. Pipeline Identification and Marking
 - E. Valves and Appurtenances
- 7230 INSPECTIONS AND TESTING
 - A. Inspections
 - B. Testing
- 7240 REPAIR OF WASTEWATER FORCE MAINS

SECTION 7500: WASTEWATER PUMPING SYSTEMS

- 7510 GENERAL
 - A. Design Requirements
 - B. Warranty
 - C. Submittals
- 7520 PUMP STATION SITE AND STRUCTURES
 - A. General
 - B. Site Work
 - C. Structures
 - D. Piping and Valves
 - E. Electrical – General
- 7530 PUMP STATION EQUIPMENT
 - A. Pumps
 - B. Pump Control Systems
 - C. Alarm Dialer/SCADA/Telemetry
 - D. Grinders
 - E. Generators

- 7540 F. Automatic Transfer Switches (ATS)
- 7540 ODOR/CHEMICAL FACILITIES
- 7550 INSPECTIONS, TESTING AND TRAINING
 - A. Inspections
 - B. Testing
 - C. Operator Training

SECTION 8000: STORM DRAINAGE

- 8010 DESIGN
 - A. Location
 - B. Sizing
- 8020 MATERIALS
 - A. Pipe Materials
 - B. Structure Materials
 - C. Installation
 - D. Inlets and Outlets
- 8030 INSPECTIONS AND TESTING
 - A. Video Assessment and Cleaning

SECTION 9000: GREENWAY CONSTRUCTION

- 9001 GREENWAY TRAILS
- 9002 GREENWAY PROOF-ROLLING OF SUBGRADES FOR 8- AND 10-FOOT TRAILS
- 9003 CURVATURE
- 9004 TRAIL DRAINAGE
- 9005 SAFETY RAILINGS
- 9006 GREENWAY TRAIL HEADS
- 9007 TRAIL AMENITIES
- 9008 SIGNAGE
- 9009 STREET CROSSINGS
- 9010 RETAINING WALLS
- 9011 GREENWAY BOARDWALKS
- 9012 GREENWAY BRIDGES
- 9013 UNDERPASSES AND TUNNELS
- 9014 TYPICAL GREENWAY CONSTRUCTION PLAN NOTES

SECTION 10000: RECORD DRAWING CHECKLIST

- 10010 PROJECT INFORMATION
- 10020 RECORD DRAWING COVER SHEET
- 10021 GENERAL INFORMATION
- 10022 AS-BUILT QUANTITY TABLE
- 10030 RECORD DRAWINGS
- 10031 GENERAL

10032	STREETS (Public, Private, Off-Road Greenway, Street-Side Trail, Sidewalk or Fire Lane)
10033	STORM DRAINAGE
10034	WATER SYSTEM
10035	SANITARY SEWER SYSTEM
10036	RECLAIMED WATER SYSTEM
10037	FORCE MAINS
10038	PUMP STATIONS
10039	STANDARD DETAILS
10040	STORMWATER CONTROL MEASURE RECORD DRAWING
10041	SITE DATA
10042	GENERAL INFORMATION
10043	SCM AND STORMWATER DRAINAGE
10044	LICENSED PROFESSIONAL CERTIFICATION
10050	AS-BUILT SURVEY
10060	ADDITIONAL SUPPORTING INFORMATION