

**GOVERNING SPECIFICATIONS
FOR
MATERIALS AND CONSTRUCTION METHODS**

All construction works for this project shall be in accordance with the Public Works Construction Standards, North Central Texas, Amendments approved through October 2004, City of Allen Special Provisions to the Standard Specifications and Special Specifications.

STANDARD MATERIAL AND CONSTRUCTION SPECIFICATIONS: North Central Texas Council of Governments Standard Specifications applicable to this project are identified as follows:

Standard Specification Item No.	Description	Standard Specification Item No.	Description
DIVISION 200 – SITE PROTECTION AND PREPARATION		202.5	Sodding
201	Temporary Erosion, Sedimentation, and Water Pollution Prevention and Control	202.6	Seeding Turf-grass
201.1	Description	202.7	Rejection
201.2*	Items of Work and Materials	203	Site Preparation
201.3	Pre-construction Submittals	203.1	Determining Location and Protection of Existing Structures
201.4	Construction Requirements	203.2	Maintenance of Streets During Construction
201.5	Silt Fence	203.3	General Site Preparation
201.6*	Interceptor Swale	203.4*	Unclassified Street Excavation
201.7	Diversion Dike	203.5	Unclassified Channel Excavation
201.8	Triangular Sediment Filter Dike	203.6	Borrow
201.9	Check Dam (Rock)	203.7*	Embankment
201.10	Check Dam (Sand Bag)	203.8	Dust Control
201.11	Stabilized Construction Entrance	DIVISION 300: ROADWAY EXCAVATION	
201.12	Stone Outlet Sediment Trap	301	Subgrade, Subbase, and Base Preparation
201.13	Pipe Slope Drain	301.1	General
201.14	Inlet Protection	301.2*	Lime Treatment
201.15	Erosion Control Blankets	301.3*	Portland Cement Treatment
201.16	Mulching	301.4	Asphalt Emulsion Treatment
201.17	Measurement and Payment	301.5	Flexible Sub-base or Base (Crushed Stone/Concrete)
202	Landscaping	301.6	Geo-textiles Used in Paving Applications
202.1	Removal, Protection, and Replacement of Trees, Shrubbery, Plants, Sod, and Other Vegetation	302	Asphalt Pavement
202.2	Topsoil	302.1	Description
202.3	Soil Amendments	302.2*	Aggregates for Hot-Mix Asphaltic Pavement
202.4	Fertilizer	302.3	Bituminous Materials

Standard Specification	Description	Standard Specification	Description
Item No.		Item No.	
302.4	Fibrous Reinforcement for Asphalt	501.7	Ductile Iron Pressure Pipe and Fittings
302.5	Storage, Heating, and Application Temperature of Bituminous Materials	501.8	Ductile Iron Pipe for Pipe Rehabilitation
302.6	Emulsified Asphalt Treatment	501.9	Steel Pipe and Fittings
302.7	Prime Coat	501.10	Seamless Copper Tubing
302.8	Asphalt Base Coat	501.11	Corrugated Metal Pipe or Arch Shapes
302.9*	Hot-Mix Asphalt Pavement	501.12	Structural Plate Structures
302.10	Measurement and Payment	501.13	Tunnel Liner Plates
303	Portland Cement Concrete Pavement	501.14	Polyvinyl Chloride (PVC) Water Pipe
303.1	Description	501.15	Polyvinyl Chloride (PVC) Pressure-Rated Pipe (SDR Series)
303.2	Portland Cement Concrete Pavement Materials	501.16	Molecularly Oriented Polyvinyl Chloride (PVCO) Water Pipe
303.3*	Mix Design and Mixing Concrete	501.17	Polyvinyl Chloride (PVC) Wastewater Pipe and Fittings with Dimension Control
303.4	Equipment	501.18	Polyvinyl Chloride (PVC) Profile Gravity Wastewater Pipe and Fittings – For Direct Bury and Slip-lining Applications
303.5*	Construction Methods	501.19	Polyvinyl Chloride (PVC) Composite Pipe for Wastewater Conduits
303.6	Alley Paving	501.20	Polyvinyl Chloride (PVC) Corrugated Storm Water Pipe with Smooth Interior and Fittings
303.7	Pavement Leave-outs	501.21	Solid Wall Polyethylene Plastic Pipe for Water, Wastewater, and Pipe Rehabilitation
303.8*	Pavement Testing and Evaluation	501.22	Polyethylene Large Diameter Wastewater Pipe with Modified Wall Profiles and Performance Standards
303.9	Measurement and Payment	501.23	Polyethylene Corrugated Drainage Tubing and Corrugated Smooth Lined Storm Water Pipe and Fittings
304	Paving and Units	501.24	Fiberglass (Glass-Fiber-Reinforced Thermosetting-Resin) Wastewater Pipe
304.1	Solid Concrete Interlocking Paving Units	502	Appurtenances
305	Miscellaneous Roadway Construction	502.1	Manholes
305.1	Concrete Curb and Gutter	502.2	Wastewater main Cleanouts
305.2	Concrete Sidewalks, Driveway Approaches, and Barrier Free Ramps	502.3	Fire Hydrants
305.3	Concrete Medians	502.4	Thrust Restraint
305.4	Reinforced Concrete Headers	502.5	Fittings
DIVISION 500 – UNDERGROUND CONSTRUCTION AND APPURTENANCES		502.6	Valves
501	Gate Valves for Ordinary Water Works Service	502.7	Performed Flexible Conduit Joint Sealant
501.1	General		
501.2	Clay Wastewater Pipe		
501.3	Vitrified Clay Pipe for Micro-Tunneling, Slip-lining, Pipe-Bursting, and Tunnels		
501.4	Concrete Pressure Pipe and Fittings		
501.5	Reinforced Concrete Wastewater Pipe With Rubber Gasket Joints		
501.6	Reinforced Concrete Culvert, Storm Drain, Pipe and Box Section		

Standard Specification Item No.	Description
502.8	Polyethylene Wrap for Metal Pipe Fittings
502.9	Corrosion-Resistant Coatings and Liners for Wastewater Conduit and Appurtenances
502.10	Connections to Conduit for Service
502.11	Miscellaneous Conduit Connections
502.12	Structures
503	Trenchless Installation
503.1	Conduit Materials
503.2	Tunnel/Chasing Pipe Spacers
503.3	Methods of Jacking, Boring, or Tunneling
503.4	Measurement and Payment
504	Open Cut – Backfill
504.1	General
504.2	Materials
504.3*	Excavation and Foundation
504.4*	Backfill – General Requirements
504.5*	Embedment
504.6	Final Backfill
504.7*	Measurement and Payment of Backfill
505	Open Cut – General Conduit Installation
505.1	General
505.2	General Installation Requirement for Pipe Types
506	Open Cut – Water Conduit Installation
506.1	Description
506.2	Materials
506.3*	Laying Water Conduit
506.4	Pipe Joints
506.5*	Hydrostatic Test
506.6	Connections to Existing Water Conduits
506.7*	Purging and Disinfection of Water Conduits
506.8	Plugs
506.9*	Measurement and Payment
507	Open Cut – Wastewater Conduit Installation

Standard Specification Item No.	Description
507.1	Description
507.2	Materials
507.3	Laying Wastewater Conduit
507.4	Wastewater Conduit Joints
507.5	Test and Inspections
507.6	Measurement and Payment for Wastewater Conduit Installation
508	Open Cut – Storm Water Conduit Installation
508.1	Description
508.2	General
508.3	Reinforced Concrete Pipe for Water
508.4	Corrugated Metal Pipe
508.5	Structural Plate Conduit
508.6	Measurement and Payment for Storm Water Conduit Installation
509	Crossings
509.1	General
509.2	State Highway Crossings
509.3	Street and Alley Crossings
509.4	Railroad Crossings
509.5	Creek and River Crossings
509.6	Measurement and Payment of Crossings
DIVISION 700: STRUCTURES	
701	General Structures
701.1	Structural Wood Products
701.2	Structural Excavation
701.3	Structural Bolting
702*	Concrete Structures
702.1	Concrete Structure Materials
702.2	Mix Design and Mixing Concrete for Structures
702.3	Mix Design and Mixing Lightweight Concrete for Structures
702.4	Constructing Concrete Structures
702.5	Pre-stressed Concrete for Structures
702.6	Pneumatically Placed Concrete (Guniting)
702.7	Drilled Shaft Foundations
702.8	Pre-cast and Cast-In-Place Concrete Units

Standard Specification Item No.	Description	Standard Specification Item No.	Description
703	Steel Structures	803	Slope and Channel Protection
703.1	Description	803.1	Articulating Concrete Block
703.2	Materials for Steel Structures	803.2	Gabion Structures
703.3	Steel Structure Construction	803.3	Riprap
703.4	Painting Metal Structures	803.4	Geotextiles Used in Drainage and Stabilization Applications
703.5	Measurement and Payment	804	Painting and Other Protective Treatments; Pavement Marking
704	Piling	804.1	Description
704.1	Piling Materials	804.2*	Painting and Marking
704.2	Driving Piling	804.3	Galvanizing
704.3	Penetration	804.4	Measurement and Payment
704.4	Bearing Resistance	805	Electrical Components and Conduit
704.5	Constructing Cast-In-Place, Pre-stressed Concrete Piling	805.1	Description
704.6	Measurement and Payment	805.2	General Requirements for Electrical Components
DIVISION 800: MISCELLANEOUS CONSTRUCTION AND MATERIALS		805.3*	Materials
801	Barriers, Warning and Detour Signs, and Fences	805.4	Conduit Construction Methods
801.1	Barriers and Warning and/or Detour Signs	805.5	Measurement and Payment
801.2*	Metal Beam Guard Fence	806	Metals Materials
801.3	Railing	806.1	General
801.4	Chain Link Fence	806.2	Structural Steel
801.5	Wire Fence	806.3	Forgings
802	Steps and Retaining Walls	806.4	Castings
802.1	Concrete Steps	806.5	Copper
802.2	Concrete Retaining Walls	806.6	Bolts, Nuts, and Washers
802.3	Segmental Retaining Wall Systems		
802.4	Cofferdams		

Note: The * symbol specifies that this item is also covered in the “Special Provisions” for the City of Allen to the “Standard Specifications for Public Works Construction, North Central Texas”. These Special Provisions are additional and modifies the “Standard Specifications”.