

**CITY OF
TONTITOWN
MINIMUM STANDARD
SPECIFICATIONS FOR
STREETS**

**ADOPTED BY
CITY OF TONTITOWN
CITY COUNCIL**

_____, 2009

**PREPARED BY CITY OF TONTITOWN ENGINEERING DEPARTMENT, STREET
DEPARTMENT, AND PLANNING COMMISSION**

TABLE OF CONTENTS

TITLE PAGE

ARTICLE 90.100 GENERAL PROVISIONS 90.100-1

- Sec. 90.100.1 Purpose 90.100-1
- Sec. 90.100.2 Jurisdiction 90.100-1
- Sec. 90.100.3 Applicability 90.100-1
- Sec. 90.100.4 Approval Required 90.100-1
- Sec. 90.100.5 Amendments 90.100-1
- Sec. 90.100.6 Waivers 90.100-1
- Sec. 90.100.7 Conflicting Regulations 90.100-1

ARTICLE 90.200 GENERAL REQUIREMENTS 90.200-1

- Sec. 90.200.1 Permits 90.200-1
- Sec. 90.200.2 Plans and Specifications 90.200-1
- Sec. 90.200.3 Responsibility of Developer/Owner 90.200-1
- Sec. 90.200.4 Engineering Services 90.200-2
- Sec. 90.200.5 Plan Submittal 90.200-2
- Sec. 90.200.6 Observation of Construction by the City 90.200-2
- Sec. 90.200.7 Acceptance by the City 90.200-2
- Sec. 90.200.8 Need for Traffic Study 90.200-3
- Sec. 90.200.9 Definitions 90.200-3

ARTICLE 90.300 DESIGN DATA AND PLAN SUBMISSION 90.300-1

- Sec. 90.300.1 General 90.300-1
- Sec. 90.300.2 Design Report 90.300-1
- Sec. 90.300.3 Horizontal and Vertical Datum 90.300-1
- Sec. 90.300.4 Plans 90.300-1
- Sec. 90.300.5 Specifications 90.300-3
- Sec. 90.300.6 As-Built Plans 90.300-3

ARTICLE 90.400 STREET DESIGN PRINCIPLES 90.400-1

- Sec. 90.400.1 General 90.400-1
- Sec. 90.400.2 Alignment 90.400-1
- Sec. 90.400.3 Intersections 90.400-1
- Sec. 90.400.4 Cross-Sections and Right-of-Way Widths 90.400-2
- Sec. 90.400.5 Railroad Crossings 90.400-2
- Sec. 90.400.6 Minimum and Maximum Grades 90.400-3
- Sec. 90.400.7 Sight Distance and Design Speeds 90.400-3
- Sec. 90.400.8 Dead End Streets 90.400-3
- Sec. 90.400.9 Driveways 90.400-3

ARTICLE 90.500 PAVEMENT DESIGN 90.500-1

- Sec. 90.500.1 Pavement Types 90.500-1
- Sec. 90.500.2 Pavement Materials and Construction 90.500-1
- Sec. 90.500.3 Subgrade Material 90.500-1
- Sec. 90.500.4 Base Course 90.500-2
- Sec. 90.500.5 Surface Course 90.500-2
- Sec. 90.500.6 Curb and Gutter 90.500-3

i

- Sec. 90.500.7 Subsurface Drainage 90.500-5
- Sec. 90.500.8 Pavement Section Design Requirements 90.500-5
- Sec. 90.500.9 Pavement Design Criteria Summary 90.500-7
- Sec. 90.500.10 Typical Pavement Designs 90.500-8

ARTICLE 90.600 UTILITIES AND UTILITY CROSSINGS 90.600-1

- Sec. 90.600.1 Utilities and Utility Crossings 90.600-1

ARTICLE 90.700 EROSION CONTROL 90.700-1

- Sec. 90.700.1 General 90.700-1
- Sec. 90.700.2 Permits Required 90.700-1
- Sec. 90.700.3 Permanent Erosion Control Measures 90.700-1

ARTICLE 90.800 INSPECTIONS AND TESTING 90.800-1

- Sec. 90.800.1 General 90.800-1
- Sec. 90.800.2 Inspections 90.800-1
- Sec. 90.800.3 Quality Control Testing 90.800-1
- Sec. 90.800.4 Construction Inspection Checklist 90.800-2
- Sec. 90.800.5 Additional Tests and Testing Frequency 90.800-2

ARTICLE 90.900 SIDEWALKS 90.900-1

- Sec. 90.900.1 General 90.900-1
- Sec. 90.900.2 Location and Width 90.900-1
- Sec. 90.900.3 Design Requirements 90.900-1
- Sec. 90.900.4 Construction 90.900-2
- Sec. 90.900.5 Warranty 90.900-3
- Sec. 90.900.6 Maintenance 90.900-3

ARTICLE 90.1000 EXCAVATIONS AND ALTERATIONS 90.1000-1

- Sec. 90.1000.1 Excavations 90.1000-1
- Sec. 90.1000.2 Application for Permit – Bond Amounts 90.1000-1
- Sec. 90.1000.3 Public / Traffic Safety 90.1000-2
- Sec. 90.1000.4 Bored Crossings - Requirements 90.1000-2
- Sec. 90.1000.5 Boring and Jacking Procedures and Requirements 90.1000-3
- Sec. 90.1000.6 Penalty 90.1000-3
- Sec. 90.1000.7 Street Cuts and Repairs by the City 90.1000-4

ARTICLE 90.100

GENERAL PROVISIONS

SEC. 90.100.1 PURPOSE

These regulations are set forth to govern the design, construction, and maintenance of streets, alleys, and sidewalks which lie within the jurisdiction of the City of Tontitown. The specifications presented within are the minimum requirements and it is understood that more stringent requirements may be mandated by the Planning Commission, City Engineer, and/or the project design engineer with regard to a specific project.

SEC. 90.100.2 JURISDICTION

These regulations shall be applicable to all lands within the City of Tontitown and its planning area and, also, to lands either contiguous to or served by Tontitown water and/or sanitary sewer. The planning area includes those areas depicted on the Planning Area Map, copies of which are on file with the City Clerk and the Washington County Recorder.

SEC. 90.100.3 APPLICABILITY

All construction and development within the jurisdiction of the City of Tontitown is subject to these regulations.

SEC. 90.100.4 APPROVAL REQUIRED

All street designs are subject to the review and approval by the City Engineer and/or City Transportation Engineer or their respective designee(s). Street improvements associated with private development must receive Planning Commission approval prior to commencing construction.

SEC. 90.100.5 AMENDMENTS

Amendments to these regulations must be presented to the City Council for adoption.

SEC. 90.100.6 WAIVERS

When strict interpretation of these regulations causes undue restrictions, the City of Tontitown Planning Commission may grant a waiver of specific requirements. Waiver requests shall be submitted to the Planning Commission pursuant to the requirements and procedures set forth in Article 90.300 - Administration and Enforcement of the Subdivision Code.

SEC. 90.100.7 CONFLICTING REGULATIONS

All City ordinances or parts of ordinances inconsistent or in conflict with these regulations are hereby repealed and amended to comply herewith by virtue of the ordinance adopting this regulation. In the event design and construction specifications prepared separately by a registered professional engineer for improvements associated with private development conflict with these regulations, the more stringent requirement shall govern.

ARTICLE 90.200

GENERAL REQUIREMENTS

SEC. 90.200.1 PERMITS

All permits required to accomplish the work shall be the responsibility of the Developer/Owner or the Engineer of Record. Such permits may include but are not limited to permits for work within Arkansas Highway and Transportation Department Right-of-Way, railroad crossing permits, "Notice of Intent" and "Notice of Termination" for Erosion Control (Arkansas Department of Environmental Quality).

SEC. 90.200.2 PLANS AND SPECIFICATIONS

Detailed Plans and Specifications shall be required for all new streets and street extensions and shall be prepared by a Professional Engineer registered to do business in the State of Arkansas.

The *Standard Specifications for Highway Construction* as promulgated by the Arkansas State Highway and Transportation Department (AHTD), 1996 edition and latest edition, and the *Standard Drawings* of the Arkansas State Highway and Transportation Department shall be the basis for the preparation of the Detailed Plans and Specifications and shall apply in all cases except where these Standards are in direct conflict with AHTD standards. AHTD standard drawings and details may be obtained on their website at www.arkansashighways.com

Address: Arkansas Highway and Transportation Department
P.O. Box 2261
Little Rock, AR 72203-2261

Phone Number: 501-569-2000

Approval of the Detailed Plans and Specifications by the City of Tontitown does not constitute warranty of the Plans and Specifications and does not relieve the Engineer of Record of his professional responsibility in the design of the facilities or in the preparation of any engineering reports done in association with the project.

SEC. 90.200.3 RESPONSIBILITY OF DEVELOPER/OWNER

The Developer/Owner shall be responsible for installation of streets, including all design and construction, and for all costs associated therewith.

The Developer/Owner shall provide all engineering services required for planning, design, investigations, inspection, testing, and related activities necessary for street development, and shall be responsible for construction of street improvements in accordance with the design approved by the City as satisfying the requirements of these standards.

The Developer shall post a letter which 1.) guarantees that the construction will conform to the plans and specifications approved by the City, 2.) acknowledges the conditions of the approval, and 3.) agrees to honor those conditions. This letter must be posted prior to the beginning of construction.

The City shall have the right of access to sites during the planning, design, and construction phases of street development. The Developer shall schedule all activities to provide the City with adequate notice and review time.

SEC. 90.200.4 ENGINEERING SERVICES

All engineering services, including but not limited to, planning, design, investigations, inspection, and testing shall be under the supervision of a Professional Engineer registered in the State of Arkansas

(Engineer of Record).

The design data, plans, specification, and related information shall bear the name of the Engineer of Record. The registration seal of the Engineer of Record shall be placed on each sheet of the Plans along with his/her signature.

Soils investigations, materials testing, and quality control testing shall be performed by a laboratory approved by the City Engineer. All reports submitted shall bear the name of the Engineer of Record. Written Certification by the Engineer of Record that materials and construction conform to the approved Plans and Specifications is required. Inspection and testing requirements are outlined in Article 90.800 of these specifications.

SEC. 90.200.5 PLAN SUBMITTAL

Plans, Specifications, and all data submitted in conjunction with the plans and specifications shall constitute a complete design. Approval by the City will not be issued until all requirements have been fulfilled. Approval of the Plans and Specifications shall remain in effect for one (1) year from the approval date. After that time a new set of Plans and Specifications must be submitted and any regulations or rules promulgated between the time of the original submittal and the new submittal date must be followed.

All significant changes in the design or construction of a project or development, including all significant changes in the Plans and/or Specifications, shall be submitted to the City for approval. The City shall be notified immediately of all significant field changes in order that a timely approval may be issued.

SEC. 90.200.6 OBSERVATION OF CONSTRUCTION BY THE CITY

The observation of street construction by the City will be limited to general observations of the project at various stages as outlined in Article 90.800 of these specifications. The City reserves the right to observe the construction at all times.

SEC. 90.200.7 ACCEPTANCE BY THE CITY

After the Final Inspection and Acceptable Completion of the street construction, the Developer/Owner shall provide a Maintenance Warranty to the City which guarantees the maintenance, repair, and/or reconstruction of the project in whole or in part for a period of 12 months after the date of the Maintenance Warranty. The Maintenance Warranty shall be in the amount of 25 percent of the cost of construction of the improvements and shall meet the requirements in the current City of Tontitown Subdivision Code.

Formal Acceptance of the project by the City will be made in writing after the posting of the Maintenance Warranty. The date of the formal acceptance shall be the same date as given in the Maintenance Warranty.

SEC. 90.200.8 NEED FOR TRAFFIC STUDY

A formal Traffic Study (*Firm to be approved by the City - Developer responsible for the cost*) may be required in connection with a development if, in the opinion of the City Engineer and/or Community Development Director, it is required to properly determine future street loading. A Traffic Study may also be required as a condition of development by the Planning Commission.

SEC. 90.200.9 DEFINITIONS

The following words, terms and phrases, when used in this article, shall have the meanings ascribed to them in this section, except where the context clearly indicates a different meaning:

AASHTO - American Association of State Highway and Transportation Officials

ACCEPTABLE COMPLETION - This term shall mean substantial completion of the street construction as agreed upon by the CITY and the ENGINEER OF RECORD.

ADEQ-Arkansas Department of Environmental Quality

AHTD - Arkansas State Highway and Transportation Department

ASTM - American Society for Testing and Materials

CBR - California Bearing Ratio

CITY - The City of Tontitown, Arkansas, and its employees expressly authorized by the Mayor to accomplish the specified task.

CONTRACTOR - The licensed contracting company hired by the Developer/Owner to construct the street improvements.

DEVELOPER/OWNER - The person, firm, partnership, corporation or other entity planning, constructing, altering or reconstructing a public street.

ENGINEER OF RECORD - The Arkansas Registered Professional Engineer responsible for the design of the improvements, usually engaged by the Developer/Owner.

ESAL - Equivalent Single Axle Load

FINAL INSPECTION - The final inspection shall be the formal inspection of the street construction by the CITY, the ENGINEER OF RECORD, and the CONTRACTOR, which results in a declaration of acceptable completion.

FORMAL ACCEPTANCE - Acceptance of the street construction in writing after a Maintenance Warranty has been submitted to and approved by the CITY.

MAINTENANCE WARRANTY - The security instrument which binds the Owner/Developer to a one (1) year responsibility for street construction repairs and/or reconstruction in the event of street construction failure.

STREET CONSTRUCTION - Where this or similar terms are used, it shall mean construction of the street, curb and gutter, drainage (whether on the street or not), and all other appurtenances normally associated with street construction and approved as part of the street plans, whether on-site or off-site.

SUBSTANTIAL COMPLETION – The construction stage at which point all improvements and

associated appurtenances have been fully constructed and are functional.

USGS - United States Geological Survey