

## ORD-0558

Approving an ordinance on first reading with the caption reading: An Ordinance of the City of Pflugerville amending Section 1 for General Provisions to the 2014 Engineering Design Manual and Construction Standards, replacing all Engineering and Construction Standards in conflict; containing a severability clause; and providing for publication and an effective date.



# Background

- What is the EDM?
  - The purpose of the Engineering Design Manual is to provide a set of standards for designing streets, thoroughfares, drainage facilities, water lines, sanitary sewer lines and preparing construction plans for such facilities that are to be owned, operated and/or maintained by the City of Pflugerville. These standards will be used by the City Staff and consulting engineers employed by the City for the above described improvement projects, and engineers for private developments in the City of Bridgeport.
- The current specifications were reviewed and approved in 2005.
- In 2018 the City retained the services of KPA to perform a comprehensive review and update of the City's Standard Specifications, Standard Details and Standard Material Products List (SPL). KPA, as directed, utilized the City of Austin Specifications as a basis starting point for development and updates to the 2005 specifications and determined new numbering, layout and information for the section.



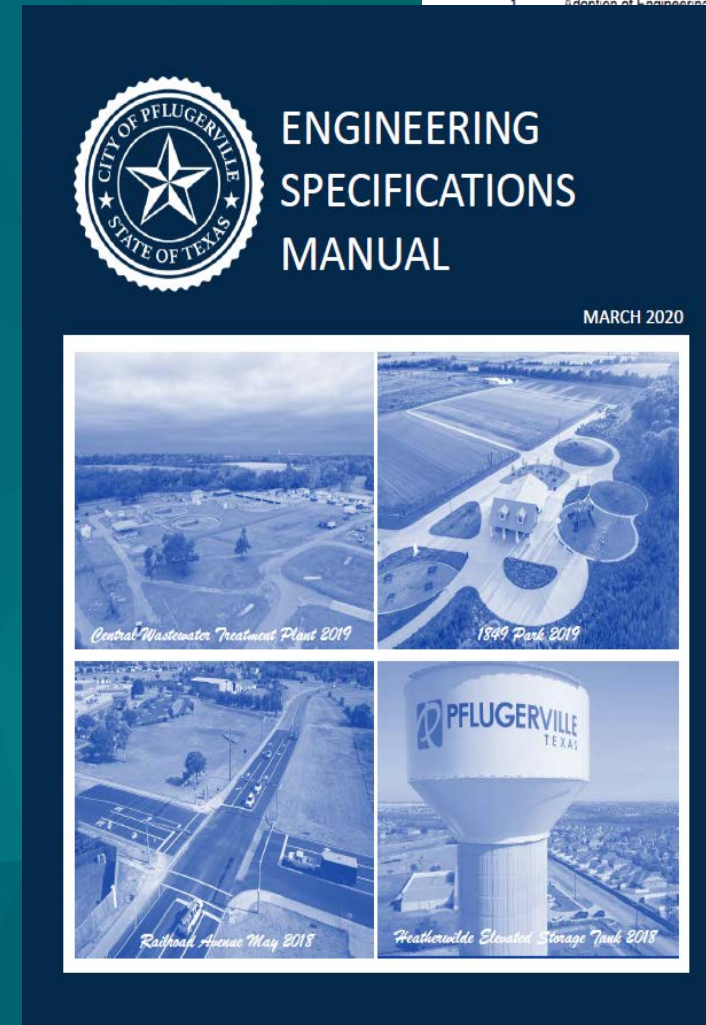
**RECORD OF REVISIONS**

This manual was adopted by the Pflugerville City Council May 2005. The following changes to this manual have also been adopted by City Council and the following are effective date(s) of the City of Pflugerville Engineering Design Manual and all of its amendments:

Edition Number	Description	Recorded by City Secretary	Effective Date
1	Adoption of Engineering Design Manual	05/2005	05/2005
	Sewer System (MS4) added	2008	
		12/13/2011	02/01/2012
	n Control MS4	08/14/2012	
	n Control MS4	02/24/2015	03/01/2015
	gn Manual	11/12/2019	12/01/2019
	ude Atlas 14	07/14/2020	08/01/2020
	ard Details/Products Update	Proposed	

# Purpose

- Provide added clarifications to Section 1, "General Provisions" adding subsections related to the Title, Purpose, Interpretation, and Enforcement as well as minor revisions to denote how and when changes can occur to EDM.
- Section 1.2, "Plans and Specifications," the related to public infrastructure specifications and construction standards have been updated and will be provided on the city's engineering webpage.



# Specifications

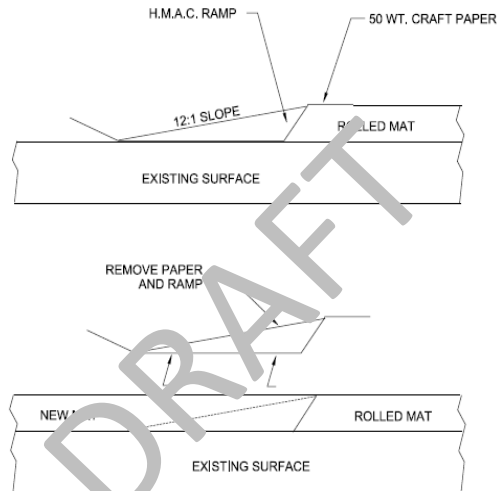
- Series 100 - Earthwork
- Series 200 - Subgrade and Base Construction
- Series 300 - Street Surface Courses
- Series 400 - Concrete Structures and Miscellaneous Concrete
- Series 500 - Pipe and Appurtenances
- Series 600 - Environmental Enhancement
- Series 700 - Incidental Construction
- Series 800 - Urban Transportation
- Series 1200 - Traffic Signals
- Series 1300 - Parks and Recreation



# Details & Standard Product List (SPL)



CITY OF PFLUGERVILLE  
STANDARD PRODUCTS LIST  
2021



WHEN A LIFT OF H.M.A.C. EXCEEDS 1", THIS TRANSVERSE CONSTRUCTION JOINT SHALL BE USED AT THE END OF EACH RUN UNTIL THE NEXT RUN IS PLACED ADJACENT TO IT. THE PAPER AND RAMP SHALL BE REMOVED PRIOR TO PLACING THE NEXT RUN.

ISSUE DATE:	CITY OF PFLUGERVILLE		340S-1
REVISIONS	H.M.A.C. TRANSVERSE CONSTRUCTION JOINT		
DATE	APPROVED:	DRAWN:	CONSTRUCTION STANDARDS AND DETAILS
SCALE	N.T.S.		THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.



CITY OF PFLUGERVILLE  
STANDARD PRODUCT LIST  
for  
COMPACT DUCTILE IRON FITTINGS

USING DEPARTMENT:	LINE MAINTENANCE	ISSUED:	REVIEWED:	REVISED:
PREPARED BY:	STANDARD DETAILS:			
DESCRIPTION:	Fittings, Compact Ductile Iron complying with AWWA C153 in 4", 6", 8", 12", 16", 20" and 24" sizes. All fittings shall have markings cast on the body as required by AWWA C153. Fittings complying with AWWA C153 shall be asphalt coated and cement-mortar lined with asphaltic seal coat complying with AWWA C104, or fusion-bonded epoxy coated and lined (inside and outside) complying with AWWA C116. Fusion-bonded epoxy must be red and shall comply with requirements of NSF 61. Not for use in gravity wastewater applications.			

LISTING DATE	MANUFACTURER	PRODUCT IDENTIFICATION/COMMENT	APPROVAL
	TYLER PIPE CO. P.O. Box 2027 Tyler, TX 75710	All Series, no retainer glands	
	US PIPE AND FOUNDRY CO. P.O. Box 10406 Birmingham, AL 35202	All Series	
	A-1 FOUNDRY (China)/SIGMA CORPORATION P.O. Box 300, Rt. 537 Goldman Road Cream Ridge, NJ 08514	All Fittings	
	UNION FOUNDRY CO./DIVISION OF MCWANE P.O. Box 309 Anniston, AL 36202	All Series	
	SOMEIP (SMP/BRAZIL) / STAR PIPE PRODUCTS 4018 Westhollow Pkwy. Houston, TX 77082	All Fittings Includes series 100 MJ x MJ Adaptor (bolt-through MJ restraint)	
	AMERICAN FLOW CONTROL P.O. Box 2727 Birmingham, AL 35202-2727	4" through 12"	
	SHANXI YUANSHENG (China) ACCUCAST 415 S. 21st Ave. Waco, TX 76706	4" through 12"	
	GAOMI ZHONGYIDE (China) ACCUCAST	4" through 12" MJ x MJ Accu Adaptor (bolt-through MJ restraint)	
	METALFIT (MEXICO) METALFIT 5583 Snowflake Way Parker, CO 80134	All Fittings - Markings include Griffin or Metalfit	
	BEIJING CHENGHONG WATER WORKS FOUNDRY (China) SERAMFORE (SIP) INDUSTRIES 2900 Patio Drive Houston, TX 77017	All Fittings	

NOTES: 1. Products other than those defined by above description may be used if equivalent



# Outreach



DELIVERED BY EMAIL

January 12, 2021

All City of Pflugerville Engineering and Architectural Consultants

Re: Updated City Specifications, Standard Details and Special Products

To Whom It May Concern:

Please refer to the attached Draft Ordinance as proposed with the recommended updates to the Standard Specifications, Standard Details and Special Products List. With the support of the Operating Departments, these revised specifications, standards and products documents will be loaded on the City's Engineering website for use on future projects.

If requested, City staff will host a meeting to go through the information and make any additional revisions. The primary effort was the coordination to avoid any conflicts and ambiguities, and meet current standards. The specific changes indicated in the Construction Specification and Construction Detail Revision Summary respectively.

With these revised documents it is proposed that the Project Engineer of Record, Architect or Engineer (A/E, or in house) will seal the appropriate documents to be included with the construction documents. This avoids using a seal from engineers that are not even aware of the projects and/or no longer within the City employment. The AE's instructed that ANY And ALL changes, must be specifically presented and approved by the City prior to final submission. This will allow the details to be more current if there are material and technology changes recommended that have a broader application.

Should you have any questions or need additional information, please feel free to contact me at 512-990-6342 or at email at [patriciad@pflugervilletx.gov](mailto:patriciad@pflugervilletx.gov).

Sincerely,

Patricia A. Davis, M.S.C.E., P.E., City Engineer  
City of Pflugerville



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FAX: 512.989.1052  
[www.pflugervilletx.gov](http://www.pflugervilletx.gov)

- Coordinated with stakeholders to Posted updates on City's Website for public review and comment
- Discussed at the City's Development Pforum meetings
- Upon approval of the ordinance a memo will be distributed regarding the changes to Pflugerville Engineering and Architectural Consultants



# Staff Recommendation

Staff recommends approving the ordinance on the first reading amending Section 1 of the 2015 Engineering Design Manual and Construction Standards, replacing all engineering and construction specifications, standards and special products in conflict; containing a severability clause; and providing for publication and effective date.

