

MEMORANDUM

Date: July 12, 2023
To: Mayor Wil Kennedy
& Councilmembers
From: Dinh V. Ho, P.E.
RE: Iowa Colony Engineering Design Criteria – Summary of Changes
Staff's Summary and Recommendations
CC: Robert Hemminger Kayleen Rosser

Below is a summary of recommended changes to be incorporated into the City of Iowa Colony Engineering Design Criteria Manual.

Chapter 3: Water Distribution System

Section 3.3.6.A – All water meters shall be installed by and inspected by the City of Iowa Colony.

Section 3.3.6.F.d. Water meters shall be Hydrus Ultrasonic Water Meter by Diehl Metering

Chapter 5: Storm Water Drainage Design

Section 5.1.1. Storm Water Drainage Design General: Updated to reflect Brazoria County Drainage Criteria Manual, adopted in May 2022.

Section 5.3.6.B. Intensity Duration Curves: - Updated IDC to reflect Atlas 14 rainfall guidance in accordance with Brazoria County Drainage Criteria Manual.

Section 5.3.6.C. Rational Method: - Updated Rational Method analysis of peak flow rate for tract less than 50 acres from 100 acres.

Section 5.3.6.J.b.(c) Calculation of Detention Storage: Detention Storage shall be not be less than 0.75 acre-ft/acre of the parent tract. This is consistent with BCDD5 Design Criteria Manual.

Chapter 10: Construction, Inspection, Approval and Acceptance of Infrastructure: - Require GIS shape files for water, sanitary sewer, drainage facilities and streets and determined by City Engineer.

Water Details Sheet 1: Revise model of meter boxes to DFW Plastics, Inc. Model no. DFW1300-12-1KT DIZ to fit approved Hydrus Ultrasonic Water Meter.