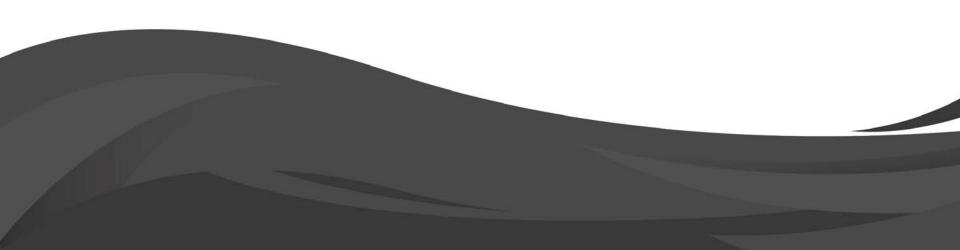


DESIGN STANDARDS + CHAPTER 19 GUIDELINES HOUSTON PUBLIC WORKS

AUGUST 2018



PROGRESS





30 day Comment Period on **Chapter 19 Guidelines**





Revisions based on feedback

10 Community Meetings + Survey



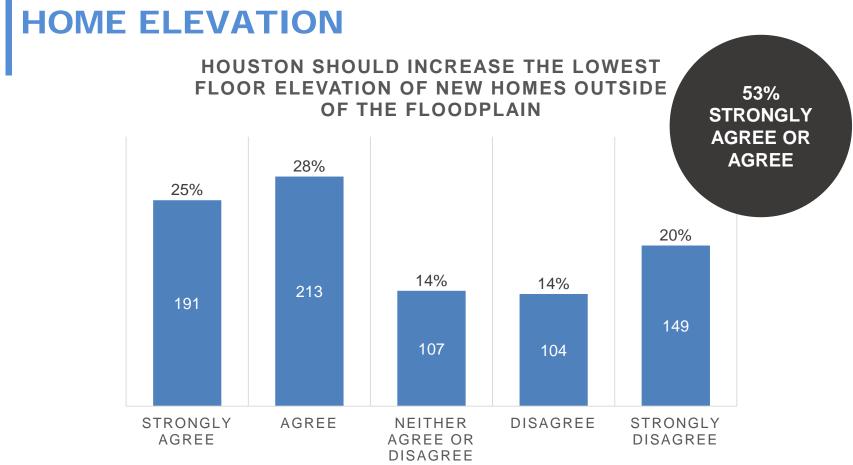
TTI Update July 23rd

COMMUNITY ENGAGEMENT

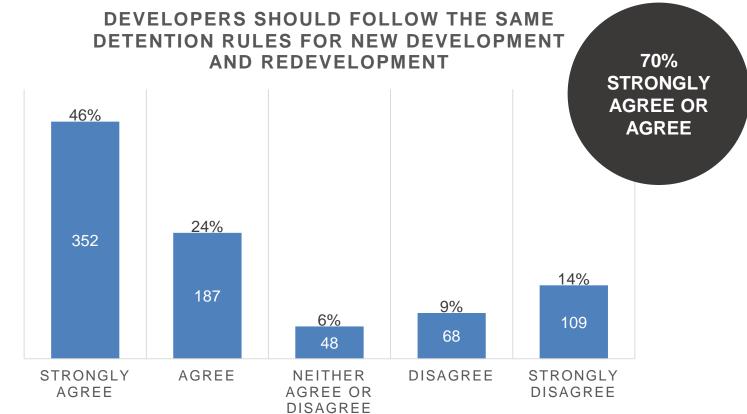
updated survey results

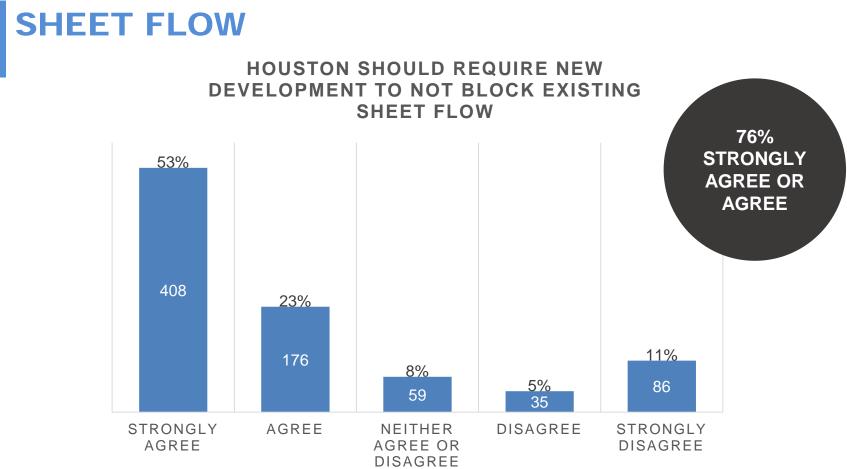
COMMUNITY ENGAGEMENT

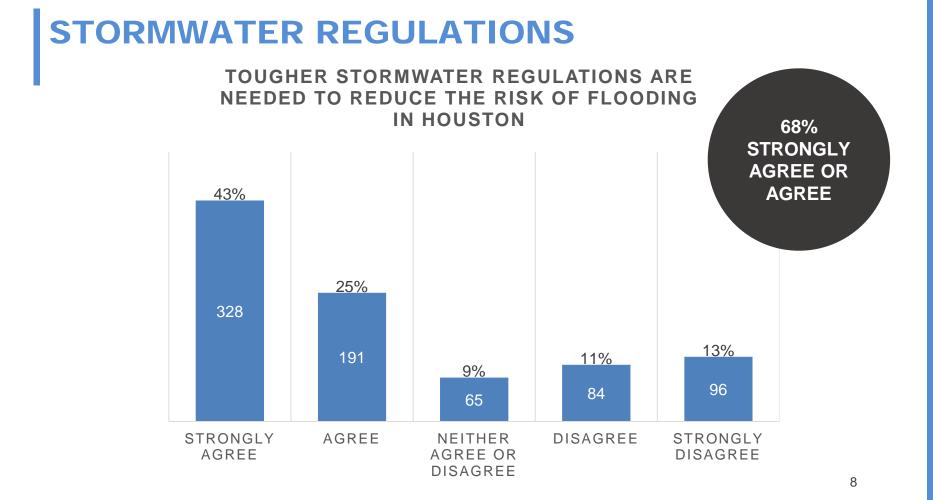




DETENTION







DESIGN STANDARDS

changes to Infrastructure Design Manual & Building Code to adopt recommendations of Redevelopment & Drainage Task Force

MAJOR UPDATES

Detention

- Fee in lieu of detention
- Detention credit for green/low impact developments
- Eliminate detention credit for existing impervious cover
- Sale of excess detention capacity
- Private sector involvement in regional detention in parks/public land

• Require protection of sheet flow for all developments

Fill

- Accommodate natural drainage patterns
- Clearly define "engineered grading"
- Change threshold amount for engineered grading

Encroachments

- Public roadside drainage education campaign
- Re-establish drainage in City right-of-way

ROUTINE UPDATES: INFRASTRUCTURE DESIGN MANUAL

Standards	Coordinated by the Office of the City Engineer
Review Committee	Reviews, revises, and updates the IDM and other documents
	Encourages public input and participation

Reviews the entire IDM within a five year cycle

Includes review of Chapter 9 and 13 in the 2018-2019 review cycle

Comments	Actions
Clarify requirement for detention for all disturbed areas	Detention requirement limited to disturbed areas resulting in impervious surface
Demonstrate that receiving storm infrastructure is adequate for proposed discharge from development or redevelopment over 1 acre or upgrade public infrastructure	Referred to Standard Review Committee
Adopt Low Impact Development (LID) criteria consistent with Harris County	Referred to Standard Review Committee

Comments	Actions
Clarify proposed changes to storm sewer design procedures	Changes to storm sewer design procedures removed and referred to Standard Review Committee
Eliminate detention exemption for some single family residential development/redevelopment	Referred to Standard Review Committee
Require lower rate of detention for some single family residential development/redevelopment	Referred to Standard Review Committee

Comments	Actions
Suggested changes to detention volume formula	Referred to Standard Review Committee
Require public hearings for any exceptions to Chapter 9 of IDM	Referred to Standard Review Committee
Move Storm Water Regulations to Chapter 42	Referred to Standard Review Committee

CHAPTER 19

companion to Floodplain Ordinance to establish operational procedures

NEW PROCEDURE HIGHLIGHTS		
permits	temporary repair permit	
	small project expedited permit	
design	simplified mitigation plan	
0.00.9	flood opening calculations	
	sheet flow analysis	
enforcement	non-compliance certificate non-conversion agreement Section 1316 – denial of FEMA flood insurance	
	mitigation facility recertification	16

EXISTING PROCEDURE CLARIFICATION

substantial damage	only applies in 100-year floodplain	
	substantial damage determination request	
	substantial damage appeal	
	increased cost of compliance letter request	
city engineer		
city engineer	preliminary damage assessment	
city engineer	preliminary damage assessment Community Rating System (CRS)	
city engineer		
city engineer	Community Rating System (CRS)	

Comment	Action
Clarify requirements for Elevation Certificates	Developing Elevation Certificate guidance and hosting training for surveyors in partnership with FEMA
Provide resources for flood resistant materials and flood protection	Hosting flood protection training in partnership with FEMA
Allow for use of computer modeling for Sheet Flow Analysis	Revised guidelines to allow computer modeling and are developing guidance information
Develop city tools for Sheet Flow Analysis using computer models	Reviewing feasibility



Chapter 19 Guidelines – September 1st Final Design Standards – August 22nd Council Action Effective Date September 1st Continued Review of Chapter 9 & 13 in 2018-2019 cycle

THANK YOU

houstonrecovers.org