CONSTRUCTION CODE MODERNIZATION PROJECT - 2021 CODE ADOPTION

JANUARY 2023
PURPOSE

together we create a strong foundation for Houston to thrive

5 TO THRIVE VALUES

respect | ownership | communication | integrity | teamwork
BACKGROUND

- Hurricane Harvey impact: 300,000 households & $2.5B in damaged city facilities and infrastructure

- Community Development Block Grant - Disaster Recovery (CDBG-DR) funding

- Adopt the 2021 Building Codes with local amendments

- Jensen Hughes, Inc. selected to assist Construction Code Modernization project
PROCESS & TIMELINE

Project Management Plan: Ongoing
Existing Code Review: Jun – Dec 2022
Stakeholder Engagement: Dec – Apr 2023
PROCESS & TIMELINE

- **Toolkit & Technical Memos**: Apr – Aug 2023
- **Implementation Strategy**: Aug 2023
- **Standard Operating Procedures**: Jan – May 2024
RESEARCH - MODEL CITIES

- Chicago, IL
- New York, NY
- Los Angeles, CA
- Atlanta, GA
- Austin, TX
- Fort Worth, TX
MOVING FORWARD

Four Task Force Groups & One Construction Code Modernization Committee

Roles & Responsibilities

- Analyze stakeholder code amendment submittals
- Consult with internal & external stakeholders
- Finalize proposed stakeholder amendments
- Review significant changes from 2015 to 2021
- Submit proposed amendments to Houston Code Development Committee
- Provide community outreach outlining code process & adoption
- Advocate and educate colleagues and business associates on the importance of the proposed 2021 Building Codes
EXTERNAL STAKEHOLDERS

- American Fire Sprinkler Association (AFSA)
- American Institute of Architects (AIA)
- American Society of Civil Engineers (ASCE)
- American Society of Plumbing Engineers (ASPE)
- ASHRAE
- Associated Builders & Contractors of Texas
- Associated General Contractors (AGC) - Houston
- Building Officials Association of Texas (BOAT)
- Construction Industry Council-Houston Branch (HCIC)
- Greater Houston Builders Association (GHBA)
- Greater Houston Texas Restaurant Association (GHTRA)
- Hotel & Lodging Association of Greater Houston (H&LAGH)
- Houston Apartment Association (HAA)
- Houston Building Owners & Managers Association (BOMA)
- Houston Business Roundtable (HBR)
- Houston Contractors Association (HCC)
- Houston Habitat
- Houston Housing Collaborative
- Independent Electrical Contractor (IEC)
- Institute of Real Estate Management (IREM)
- International Association of Plumbing & Mechanical Officials (IAPMO)
- International Code Council (ICC)
- NAIOP, the Commercial Real Estate Development Association
- National Electrical Contractors Association
- National Fire Sprinkler Association (NFSA)
- New Hope Housing
- Sierra Club
- Society of Fire Protection Engineers (SFPE)
- South Central Partnership for Energy Efficiency as a Resource (SPEER)
- Super Neighborhood Representatives
- Texas Community Watershed Partners
- Texas Institute of Building Design (TIBD)
- Texas Society of Architects
- University of Houston
- Urban Land Institute (ULI)
- US Green Business Council (USGBC) of Houston
- Others
INTERNAL STAKEHOLDERS
HOUSTON CODE DEVELOPMENT COMMITTEE

– Houston Permitting Center
– Houston Public Works
– Housing & Community Development
– Planning & Development Department
– Houston Airport System
– Administration & Regulatory Affairs
– Houston Fire Department
– Legal
– Resiliency & Recovery
– Mayor’s Office of Communication
ORGANIZATION PROCESS

City of Houston Construction Code Process/Organization Flow Chart

Mayor
City Council
City Attorney
Transportation, Technology, Infrastructure (TTI) Committee
Houston Code Development Committee
Mayor's Communications Office
Resolution Committee

Public Partners
Houston Depts - Public Works, Housing & Community Development, Planning & Development, General Services, Airport System, Adm. & Regulatory Affairs, Health, Fire, Police, Legal, Resiliency, Recovery, Harris County Flood Control

Mayors Construction Code Modernization Committee (CCMC)*
TFG 1 - January, TFG 2 – February,
TFG 3 – March, TFG 4 – April

**All Task Force Groups will have a minimum of 15-25 subject matter expert code members**

Task Force Groups (TFG)**

**The Construction Code Modernization Committee will have a minimum of 50-70 members**

Task Force Group 1
Building & Fire Codes
December 2022

- International Building Code (IBC)
- International Fire Code (IFC)
- International Existing Building Code (IEBC)

Task Force Group 2
Residential & Pool Codes
January 2023

- International Residential Code (IRC)
- International Swimming Pool & Spa Code (ICSPC)

Task Force Group 3
Performance Codes
February 2023

- International Energy Conservation Code (IECC)
- International Code Council Performance Code (ICPC)

Task Force Group 4
Mech, Elec, Plumb Codes
March/April 2023

- Mechanical Code (MC)
- National Electrical Code (NEC)
- Plumbing Code (PC)

Code Modernization Document Adoption Process
Code Modernization Project Input Process

Draft 11.04.22 A.M.
CODE ADOPTION PROCESS

For updates, calendar of events, amendment submittals
Visit https://www.houstonpermittingcenter.org/construction-code-modernization

Houston’s
Construction Code Modernization (CCM)
Code Adoption Process

Stage 1
Sign up to:
1. Receive updates
2. Join a working committee
3. Submit code amendment proposal

Stage 2
Complete Code Amendment Submittal Form and any supporting documentation to the Task Force Group at: xxx.gov

Stage 3
Track the efforts of each Task Force Group at www.xxx.gov

Stage 4
Participate in a Public Participation Meeting. Last meeting date of each TEQ or Special Meeting called.

Stage 5
Houston Code Development Committee Final CCMC Amendment Submittal Review and Consideration.

For more information, ( DISCLAIMER: for the CCM Public Participation Plan (PPP))

Track the efforts of the CCMC at www.xxx.gov

Participate in a Public Participation Meeting. Last meeting date of each TEQ or Special Meeting called.

Final Status/Full recommendations submitted to CCM Code Dev. Code for Final review/approval after the CCMC meeting where CCMC recommends code amendments for a particular code are completed. Dec 2022 — Feb 2023

Submitted to
1. City Legal Dept.
2. ITI Committee
Jan 2023 — May 2023

Submit to
City of Houston
City Council for Adoption
Jan 2023 — Aug 2023

10.18.22—CCM Code Adoption Process Chart
PARTICIPATION

- Receive updates through newsletter & email
- Sign up to serve on a Task Force Group or Construction Code Modernization Committee
- Submit a code amendment
COMMITTEE & TASK FORCE GROUPS

- Equal engagement & representation
- Inclusive featuring a variety of associations & organizations
- Task Force Groups:
  - Building & Fire Codes
  - Residential & Pool Codes
  - Performance & Energy Codes
  - Mechanical, Electrical & Plumbing Codes
CODE AMENDMENTS

- Code Amendment Proposal Form
- Review instructions & complete the survey
- Submit one form for each change request
- Houston Code Development Committee will review each request
# ANALYSIS & ADOPTION TIMELINE

## Construction Code Modernization Project

### Timeline External

<table>
<thead>
<tr>
<th>Task/Event</th>
<th>2021</th>
<th>2022</th>
<th>2023</th>
<th>2024</th>
<th>2025</th>
<th>2026</th>
<th>2027</th>
<th>2028</th>
</tr>
</thead>
<tbody>
<tr>
<td>Task 1: Analysis/Implementation</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Task 2: Comparative Code Analysis</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Task 3: Code Change &amp; Adoption</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Task 4: Policy Implementation</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Task 5: Program Management</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Task 6: Implementation Plan</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Task 7: Code Adoption</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Task 8: Glover Panel</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Task 9: Technical Task</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Task 10: Policy Implementation</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Task 11: Program Management</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Task 12: Implementation Plan</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Task 13: Code Adoption</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Task 14: Glover Panel</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Task 15: Technical Task</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Task 16: Policy Implementation</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Task 17: Program Management</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Task 18: Implementation Plan</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Task 19: Code Adoption</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Task 20: Glover Panel</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Task 21: Technical Task</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Task 22: Policy Implementation</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Task 23: Program Management</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Task 24: Implementation Plan</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Task 25: Code Adoption</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Task 26: Glover Panel</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Task 27: Technical Task</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Task 28: Policy Implementation</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Task 29: Program Management</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Task 30: Implementation Plan</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Task 31: Code Adoption</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Task 32: Glover Panel</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Task 33: Technical Task</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Task 34: Policy Implementation</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Task 35: Program Management</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Task 36: Implementation Plan</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Task 37: Code Adoption</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Task 38: Glover Panel</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Task 39: Technical Task</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Task 40: Policy Implementation</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Task 41: Program Management</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Task 42: Implementation Plan</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Task 43: Code Adoption</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Task 44: Glover Panel</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Task 45: Technical Task</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Task 46: Policy Implementation</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Task 47: Program Management</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Task 48: Implementation Plan</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Task 49: Code Adoption</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Task 50: Glover Panel</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Task 51: Technical Task</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Task 52: Policy Implementation</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Task 53: Program Management</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Task 54: Implementation Plan</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Task 55: Code Adoption</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Task 56: Glover Panel</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Task 57: Technical Task</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Task 58: Policy Implementation</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Task 59: Program Management</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Task 60: Implementation Plan</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

---

CONTACTS

Lewis Bennett
lewis.bennett@houstontx.gov

Alex McCray
alex.mccray@houstontx.gov

Avani Mehta
avani.mehta@houstontx.gov
thank you!