

# THORNTON FIRE MUSEUM

Appendix B — Media  
April 17, 2026

## MEDIA ELEMENTS

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Exhibit Code	Exhibit Name	Description
The Heart of Thornton		
HT2.EX1-MEI	Key Individuals	AV System (Touchscreen monitor mounted to wall)
HT3.EX2-MEI	Ken Freiberg	AV System (Monitor mounted to hut to display media)
Fighting Fires, Helping Health		
FF1.EX1-MEI	Ride along with TFD	AV System (Monitor or Projection)
Be Fire Safe		
FS1.EX1-MEI	Fire Extinguisher Fun	AV System (Pyrosoft)
FS4.EX1-MEI	T-Town Clowns	AV System (Monitor)
Life at the Station		
LS1.EX1-MEI	DYHWIT	Incoming Call (Audio System)
LS1.EX3-MEI	DYHWIT	CPAT Test (AV Monitor)



### OWNER

City of Thornton  
Fire Department  
Thornton Fire Museum

### EXHIBIT DESIGN



Studio Tectonic  
400 Marine Street, Carriage House  
Boulder, CO 80302

### PROJECT ARCHITECT



Architectural Workshop  
2 Kalamath Street  
Denver, CO 80223

Project AV systems consist of stand-alone media playback installations integrated into exhibit casework. All systems operate locally using BrightSign media players and microSD media storage. No network connectivity is required or assumed.

### General Requirements

- All systems shall be fully stand-alone and operate without network connectivity.
- Media shall be stored locally on industrial microSD cards.
- Displays shall be surface mounted unless noted otherwise.
- Speakers shall be recessed into exhibit structures with flush grilles.
- Pushbuttons shall be flush mounted through exhibit panels.
- All wiring shall be concealed within exhibit structures or walls.
- All equipment including media players, amplifiers, and power supplies shall be located in protected service cavities with access doors.
- Vendor shall provide all additional hardware, cabling, mounting components, and integration required for a complete operational system.
- Vendor shall provide system commissioning, owner training, and operator manuals.

### Standard Media Player

Basis of Design: BrightSign HD1025 media player. HDMI output, GPIO inputs, analog audio output, microSD media storage, automatic restart after power loss.



## Equipment

- Surface-mounted touchscreen display approximately 32 inches.
- Basis of Design Display: Planar Helium PCT3285.
- Media playback: BrightSign HD1025.
- Touchscreen connected via HDMI and USB.
- Audio playback through built-in display speakers.

## Description

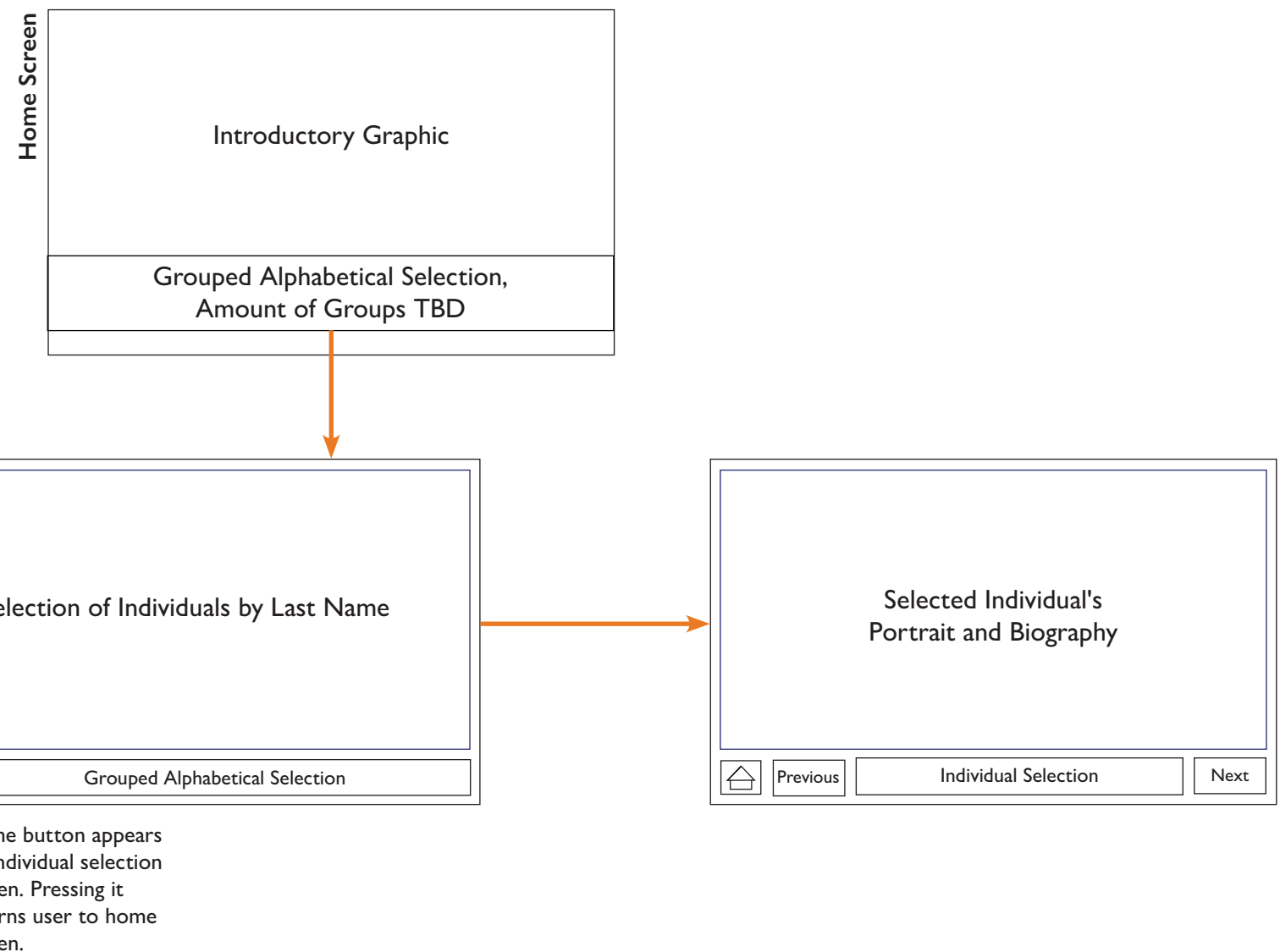
Interactive touchscreen on wall adjacent to Quonset hut recreation. Visitors can explore a menu of key individuals during the Thornton Fire Department's founding years through a menu featuring individuals in alphabetical order. By selecting a letter, individuals will be displayed by their last name, each with a portrait photograph and a brief biography, around 150 words at maximum. Visitors can navigate back to the alphabetical list, or home to the letter selection.

## Contractor Responsibilities

- Programming of BrightSign player and insertion of screen content.
- Provide BrightAuthor tools for future edits.

## Owner Responsibilities

- Provide screen-ready photography and written biography content of featured key individual, as available.



## Visual References



Bill Cronin Portrait



Carl Nelson Portrait



Cy Leiker Portrait

## Equipment

- Surface-mounted commercial display approximately 30–32 inches diagonal.
- Basis of Design Display: Samsung QM32C.
- Media playback: BrightSign HD1025.
- Activation: One 28mm arcade style pushbutton.
- Display audio played through built-in speakers.

## Description

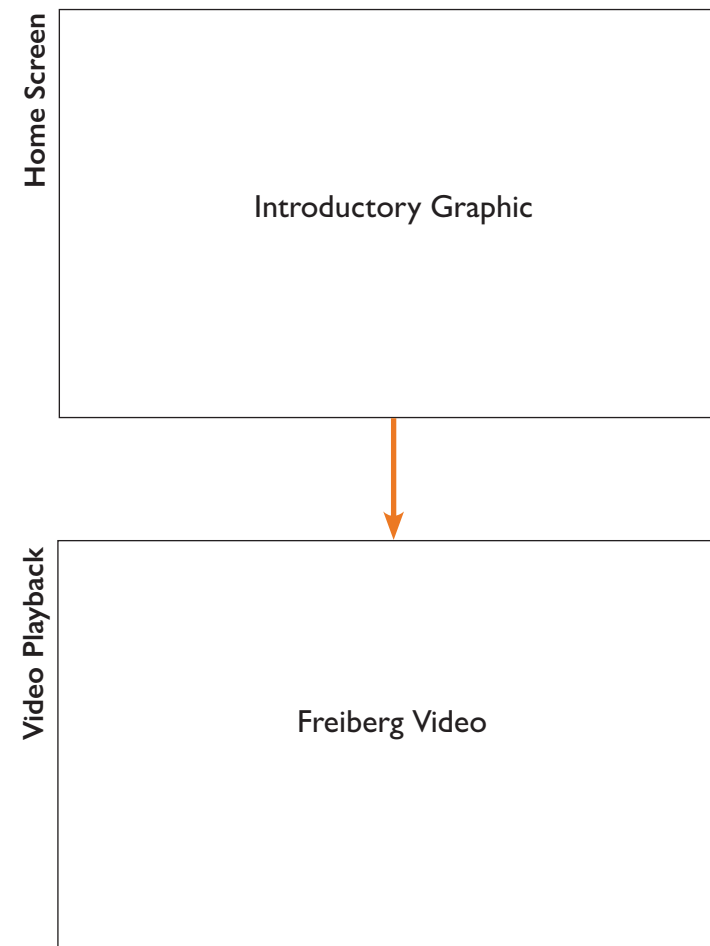
Pushbutton activated video monitor attached to Quonset hut recreation. Before activation, an introductory graphic will be displayed. Visitors can press the button and play selection of Ken and Mary Freiberg's 2021 oral history. After the clip is shown in full, the monitor will return to its home screen.

## Contractor Responsibilities

- Programming of BrightSign player and insertion of screen content.
- Provide BrightAuthor tools for future edits.

## Owner Responsibilities

- Provide screen-ready oral history interview selections, clipped to the desired length.



## Visual References



Ken and Mary Freiberg Oral History

## Equipment

- Surface-mounted commercial display approximately 30–32 inches diagonal.
- Basis of Design Display: Samsung QM32C.
- Media playback: BrightSign HD1025.
- Video loops continuously; audio activated by motion sensor.
- Display mounted to custom arm within climb-in fire engine exhibit.
- Final mounting location coordinated with engine vendor.

## Description

Continuously looping statically filmed videos, framed on a TFD's fire engine dashboard and out the windshield. The video and audio plays without activation, and is always rolling inside of the fire engine cab, over top of the engine's windshield.

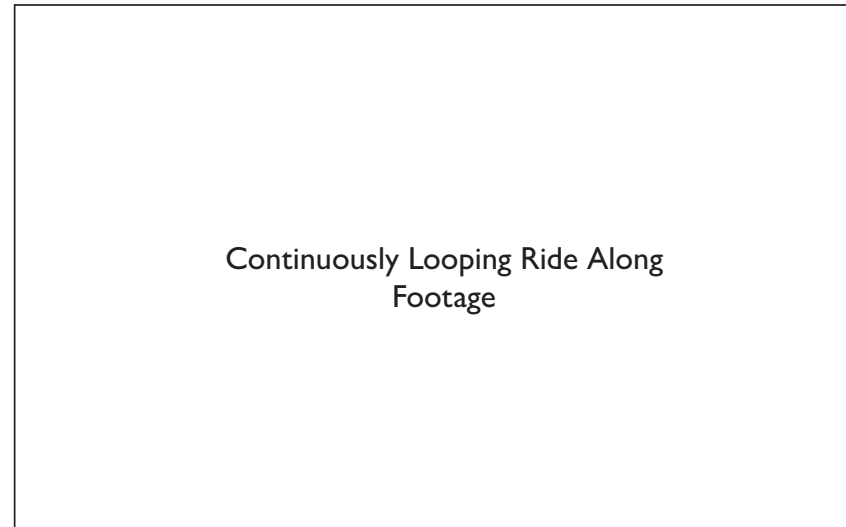
## Contractor Responsibilities

- Programming of BrightSign player and insertion of screen content.
- Provide BrightAuthor tools for future edits.

## Owner Responsibilities

- Provide screen-ready, edited videography/audio, approximately 30 minutes.

Home Screen



## Visual References



Inside a TFD Engine Cab



Ride Along Video Screenshot



## Equipment

- Short-throw projection with integrated deck audio.
- Basis of Design Projector: Panasonic PT-VMZ71 with ET-ELW22 short throw lens.
- Media playback: Pyrosoft CPU.
- Inputs: Pyrosoft Bluetooth sensors and activation buttons.
- Audio amplification: QSC MP-A20V.
- Speakers: Two JBL Control 25-1 recessed in exhibit deck.

## Description

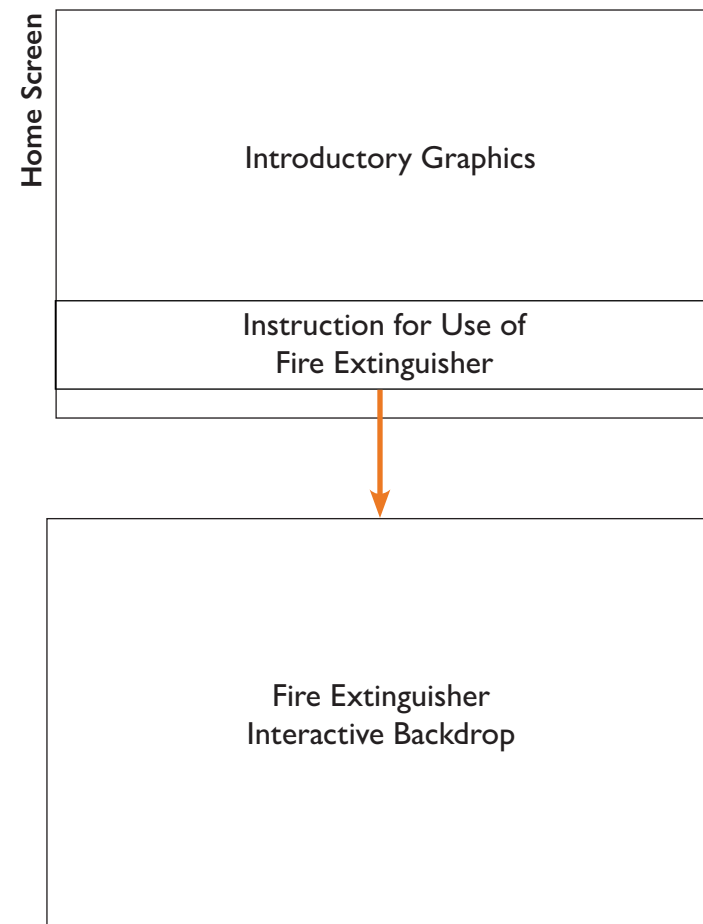
Visitors will activate the interactive screen with an adjacent button. Visitors can extinguish the fire by moving the nozzle and squeezing the trigger located on the fire extinguisher unit. After the fire is extinguished, visitors have the option to run the interactive again. If the interactive is abandoned by the visitor during or after use, the projection screen will automatically return to the home screen. The fire extinguisher projection screen will display introductory graphics when not in use.

## Contractor Responsibilities

- Integration of Pyrosoft fire extinguisher training system including CPU, extinguisher unit, and Bluetooth sensors.
- Provide system commissioning, owner training, and operator manuals.

## Owner Responsibilities

- None



## Visual References



Pyrosoft Fire Extinguisher Simulator



Pyrosoft Fire Extinguisher Simulator



Potential Kitchen Interactive Backdrop



## Equipment

- Surface-mounted commercial display approximately 30–32 inches diagonal.
- Basis of Design Display: Samsung QM32C.
- Media playback: BrightSign HD1025.
- Activation: One 28mm arcade style pushbutton.
- Display audio played through built-in speakers.

## Description

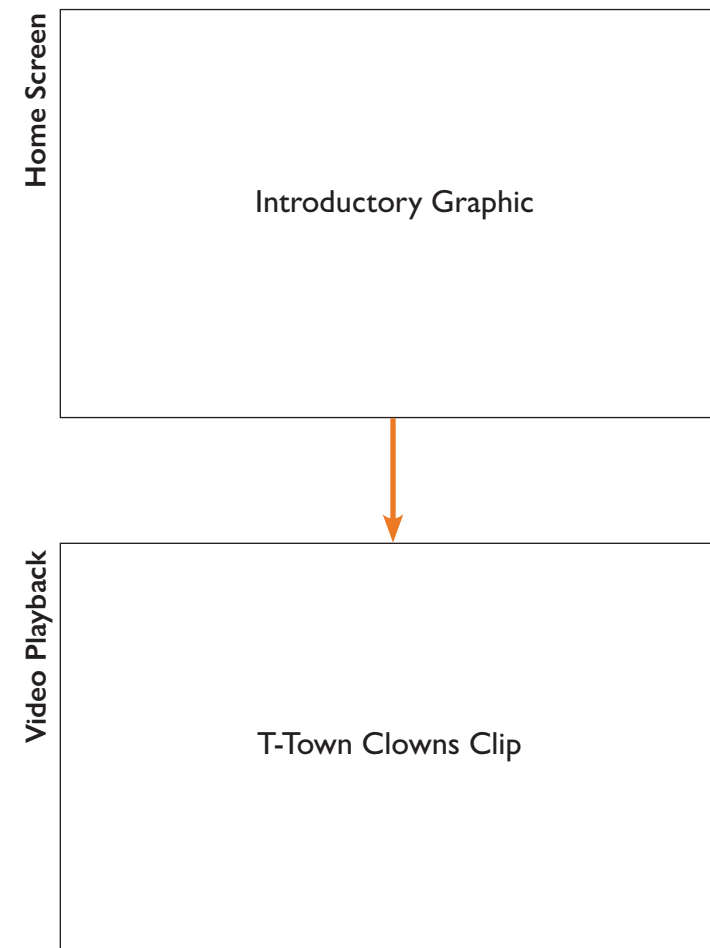
T-town clowns introductory graphic displayed on video monitor. To activate the video, visitors press an adjacent button. The T-town clown video clip begins to play along with audio. After the clip plays in full, the screen returns to the introductory graphic.

## Contractor Responsibilities

- Programming of BrightSign player and insertion of screen content.
- Provide BrightAuthor tools for future edits.

## Owner Responsibilities

- Provide screen-ready and edited videography, approximately 5-10 minutes.



## Visual References



T-Town Clowns Screenshot



T-Town Clowns Screenshot

### Equipment

- Audio-only interactive with four selectable tracks.
- Media playback: BrightSign HD1025.
- Activation: Four 28mm arcade style pushbuttons.
- Amplifier: QSC MP-A20V.
- Speakers: Two JBL Control 25-1 recessed into exhibit panel.

### Description

Four audio clips of a TFD dispatcher receiving an emergency call, dispatching an engine, and following up with the caller to ask about the emergency. Will include a fire call, medical call, a rescue call, and a call inquiring about beeping fire alarm. Visitors can activate different dispatch calls with four adjacent pushbuttons.

### Contractor Responsibilities

- Programming of BrightSign player and insertion of screen content.
- Provide BrightAuthor tools for future edits.

### Owner Responsibilities

- Four recorded and edited dispatch response calls (fire, medical, rescue, fire alarm), including common questions dispatch asks when responding to a call to the fire department, approximately 60 seconds.



## Equipment

- Surface-mounted touchscreen display approximately 32 inches.
- Basis of Design Display: Planar Helium PCT3285.
- Media playback: BrightSign HD1025.
- Touchscreen connected via HDMI and USB.
- Audio playback through built-in display speakers.

## Description

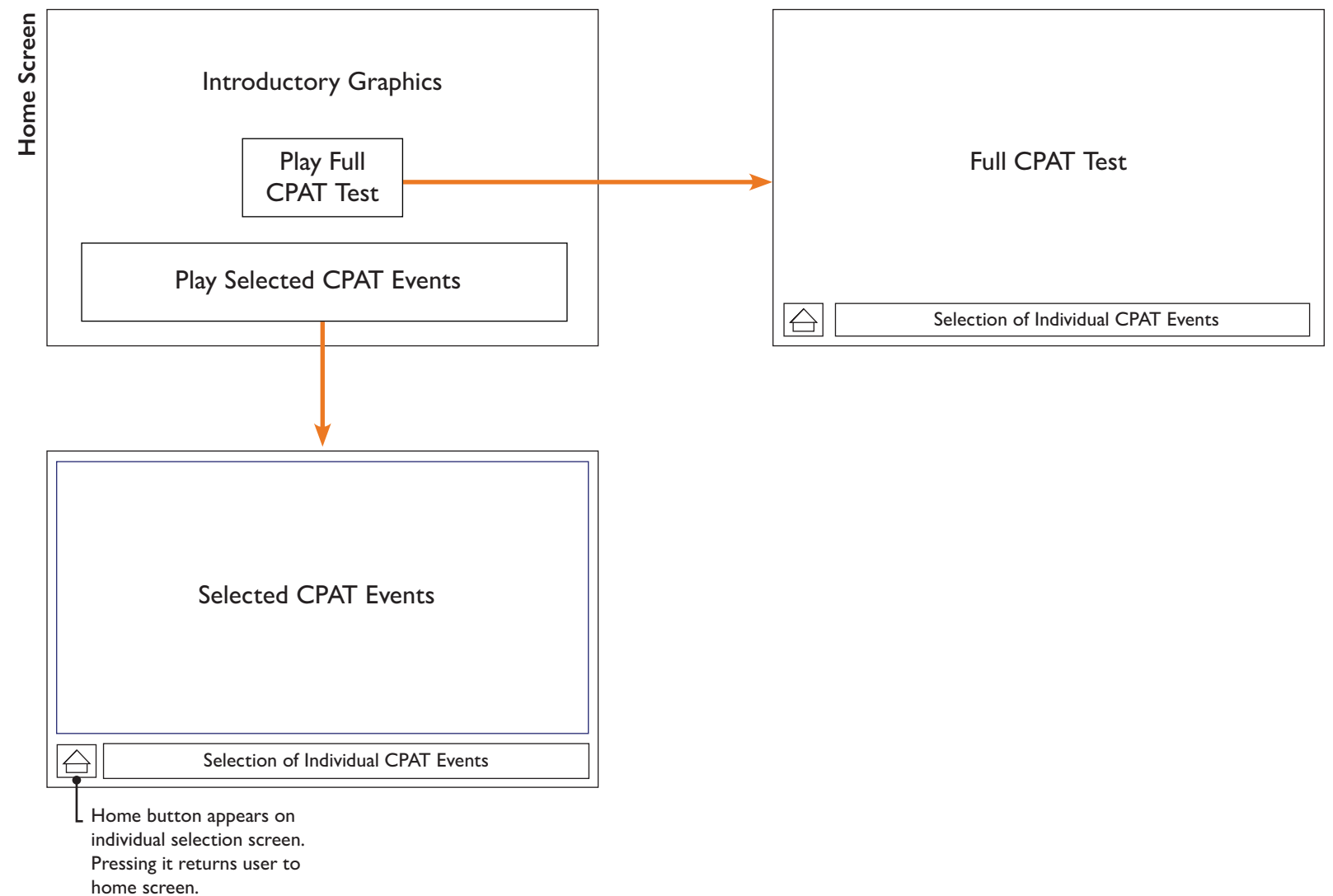
Interactive wall-mounted touchscreen allows visitors to either choose between viewing the entirety of the CPAT test in sequence, or allows them to select individual events. Edited video footage of the CPAT test includes captioning, describing the event, what the challenge is, and what visitors might spot when identifying a failure. After video is finished playing, screen will automatically return to the home screen after about 5 seconds.

## Contractor Responsibilities

- Programming of BrightSign player and insertion of screen content.
- Provide BrightAuthor tools for future edits.

## Owner Responsibilities

- Provide screen-ready videography and audio, including all sections of the CPAT test. Approximately 2-3 minutes long.



## Visual References



Rope Pull Event



Sledgehammer Event

