



**City of  
Thornton**

## **MEMORANDUM**

**DATE:** March 31, 2021  
**TO:** Jeff Coder, Deputy City Manager of City Development  
**CC:** Glenda Lainis, Policy Planning Manager  
Grant Penland, Planning Director  
Martin Postma, Senior Policy Analyst  
**FROM:** Kevin Woods, City Manager  
**SUBJECT:** Approval of the 2020-2021 Review of the 2017 Thornton, Federal Heights, and Northglenn Hazard Mitigation Plan

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I have reviewed the 2020-2021 Review of the 2017 Thornton, Federal Heights, and Northglenn Hazard Mitigation Plan (Thornton version). This Review contains no changes to the Plan that warrant bringing this matter to the attention of the Thornton City Council.

To the best of my understanding, this Review meets the guidelines of the State of Colorado and of FEMA pertaining to this process. It was also done in the best interests of the City of Thornton and its residents. The 2020-2021 Review meets my approval.

This is the final review of the 2017 Hazard Mitigation Plan that Thornton will conduct. In mid-2021, work will begin on the 2022 Thornton, Federal Heights, and Northglenn Natural Hazard Mitigation Plan, which will replace the 2017 Plan.

Please have your staff provide this document to the State of Colorado and to FEMA, as appropriate, and have it posted in the appropriate location on the City of Thornton's website for the review and benefit of the public.

Thank you.

A handwritten signature in black ink that reads "Kevin Woods".

# City of Thornton

## Review of 2017 Hazard Mitigation Plan and Recommendations for 2022 HMP

Review conducted late 2020 and early 2021.

### Introduction

The 2017 Thornton, Federal Heights, and Northglenn Hazard Mitigation Plan (the “Plan”) was adopted in April 2017. It replaced the 2010 Hazard Mitigation Plan that was drafted by the Denver Regional Council of Governments (DRCOG) for the greater Denver area. DRCOG no longer performs hazard mitigation planning.

The 2017 Plan exists in four forms:

1. The complete Plan, including appendices specific to all three cities. This is the version that was approved by the State of Colorado and the US Federal Emergency Management Agency (FEMA).
2. The Thornton version of the Plan, which includes the body and the Thornton appendix.
3. The Federal Heights version of the Plan, which includes the body and the Federal Heights appendix.
4. The Northglenn version of the Plan, which includes the body and the Northglenn appendix.

These are collectively, and individually, referred to as the “Plan”.

Each participating city adopted only their version of the document. Approving separate, city-specific versions of the Plan was done so that each city had the option and ability to amend their document as they saw fit without involving the other two cities. Amendments to city-specific versions of the Plan do not need to be approved by the State of Colorado or by FEMA.

### Purpose of Hazard Mitigation Planning

The purpose of the Plan is to assist each community in progressing toward a more resilient future. More specifically, the goals of the Plan are as follows:

- Protect life and property by reducing the potential for future damages and economic losses that result from natural hazards;
- Qualify for additional grant funding, in both the pre-disaster and post-disaster environment;
- Provide quick recovery and redevelopment following future disasters;
- Integrate other existing and associated local planning documents;
- Demonstrate a firm commitment to hazard mitigation principles; and
- Comply with state and federal legislative requirements tied to local hazard mitigation planning.

### Hazard Mitigation Plan Reviews

The purposes of conducting reviews of the Thornton Hazard Mitigation Plan are as follows:

1. Record progress, or other updates, made toward the accomplishment of each Mitigation Action Guide.
2. Meet the requirements of the Community Rating System (CRS) credits that go above and beyond the minimum National Flood Insurance Program.
3. Prepare for the next major update of the Hazard Mitigation Plan.

The Plan indicates that a review will be conducted each year that it is in effect. It is each city's responsibility to conduct reviews of their respective version of the Plan if they so choose. Reviews are recommended, but not required for the Plan to remain in effect. Reviews of the Plan are an important component of maintaining Thornton's CRS Flood Insurance rating.

Thornton's CRS Rating is currently Class 6. This means residents in the City of Thornton receive a 20% discount on their flood insurance premium rates if they are in the FEMA Special Flood Hazard Area, and a 10% discount if they are located in moderate risk areas outside the FEMA Special Flood Hazard Area and still decide to purchase Flood Insurance. One of the requirements associated with maintaining this rating is for Thornton to have a Hazard Mitigation Plan in place and for it to be reviewed annually.

Thornton conducted a review of the Plan in 2018, but decided not to review the Plan in 2019 because of the considerable amount of work that was being done to complete the 2020 Thornton Comprehensive Plan. The current review, conducted in late 2020 into early 2021, is the last review that will be conducted by Thornton of the 2017 Hazard Mitigation Plan.

#### Review of the 2017 Plan Conducted late 2020 – early 2021

All "Minor Corrections and Amendments" listed in the 2018 review are confirmed as still appropriate unless otherwise indicated within individual Mitigation Action Guide reviews.

See page 11 of this document:

<https://www.thorntonco.gov/government/citydevelopment/planning/hazard-mitigation/Documents/2018-annual-review-thmp-approved.pdf>

All of the "Considerations for the 2019 Annual Review" should be taken into account in the 2022 HMP development process. Mitigation Action Guide reviews may contain additional, relevant information.

See page 12 of this document:

<https://www.thorntonco.gov/government/citydevelopment/planning/hazard-mitigation/Documents/2018-annual-review-thmp-approved.pdf>

#### Plans that should be reviewed by the consultant hired to manage the 2022 HMP process:

A key component of conducting any hazard mitigation plan is to first gain a comprehensive understanding of what relevant plans are in place in regard to the future of the community. A clear understanding of where the community intends to go in the years ahead, what changes it aims to make, what challenges it faces, and what resources it has to use in overcoming those challenges are all important to understand. Having this baseline knowledge will help ensure that the hazard mitigation plan that is developed will integrate well with the existing vision for the future of the community and complement its progress towards existing goals.

A review was conducted of existing plans which are either in place or in process. Below is a list of those documents. This may not be a complete list and a further examination should be conducted at the time that the 2022 Thornton, Federal Heights, and Northglenn Natural Hazard Mitigation Plan commences to help ensure completeness.

2020 Thornton Comprehensive Plan

<https://www.thorntonco.gov/government/citydevelopment/planning/Pages/2020-Comprehensive-Plan.aspx>

2019 Thornton Drought Management Plan

<https://www.thorntonwater.com/wp-content/uploads/2020/03/drought-management-plan-2019.pdf>

2018 Thornton Water Efficiency Plan

[https://www.thorntonwater.com/wp-content/uploads/2020/03/water\\_efficiency\\_plan-1.pdf](https://www.thorntonwater.com/wp-content/uploads/2020/03/water_efficiency_plan-1.pdf)

2017 Thornton Parks and Open Space Master Plan

<https://www.thorntonco.gov/thornton-parks/Pages/open-space-master-plan.aspx>

2015 Senior Services Master Plan

<https://www.thorntonco.gov/aac/Documents/senior-master-plan-2015.pdf>

Thornton Sustainability Documents

- 2020 Thornton Energy Action Plan
- 2020 Thornton Sustainability Action Agenda
- 2020 Greenhouse Gas Inventory

<http://thorntonsustainability.com/>

2010 Thornton Water and Wastewater Systems Master Plan

An update to the Utilities Master Plan has been completed. It has been presented to the Thornton City Council and will be used in guiding the 2022 upgrade to the Hazard Mitigation Plan.

2009 Thornton Transportation Master Plan (and associated documents)

Note: New Transportation and Mobility Plan is underway currently.

<https://www.thorntonco.gov/government/citydevelopment/planning/Pages/transportation-plan.aspx>

Thornton Station Area Master Plans (4 documents)

<https://www.thorntonco.gov/government/citydevelopment/planning/Pages/station-area-plans.aspx>

Thornton Boomer Bond Assessment

CDBG Draft Consolidated 2020-2024 Plan and 2020 Annual Action Plan

<https://www.thorntonco.gov/community-connections/Documents/grant-resources/Draft%20Consolidated%20Plan%20and%20AAP.pdf>

Thornton Emergency Services Plans:

1. Employee Emergency Response Guide (2019) (and Building Appendices)
2. Thornton Emergency Operations Plan (2019)
3. Special Events – Severe Weather Plan (2018)
4. Thornton Closed Point of Dispensing (POD) Plan (2020)
5. Thornton Fire Department COVID-19 Vaccine POD Plan (2020)
6. Thornton – America’s Water Infrastructure Act (AWIA) Community Water System Emergency Response Plan (ERP) (2020)
7. Niver Creek Detention Dam – Emergency Action Plan (2021)
8. City of Thornton Continuity of Operations and Continuity of Government Plans (COOP & COG)

Plans produced by other agencies:

2018 Westminster Hazard Mitigation Plan

<https://www.cityofwestminster.us/Portals/1/Documents/Public%20Safety%20-%20Documents/Emergency%20Management/Westminster%202018%20HMP%20Update-Final%20Aug%202018.pdf?ver=2018-10-10-102858-093>

Adams County Hazard Mitigation Plan

Weld County Hazard Mitigation Plan (Note: it is being updated currently.)

[https://www.weldgov.com/UserFiles/Servers/Server\\_6/File/Departments/OEM/WeldCO2016HMPPFinalr.pdf](https://www.weldgov.com/UserFiles/Servers/Server_6/File/Departments/OEM/WeldCO2016HMPPFinalr.pdf)

Larimer County Hazard Mitigation Plan Currently in process. Click here for the latest information:

<https://www.larimer.org/emergency/hazard-mitigation-plan#:~:text=The%20Larimer%20County%20Multi%2DJurisdictional,to%20people%2C%20property%2C%20and%20critical>

## Mile High Flood District – Thornton Master Plans

### [Search Documents In the Mile High Flood District \(mhfd.org\)](#)

- (1) *Flood Insurance Study for the City of Thornton, Colorado* dated March 5, 2007, with accompanying FIRM, or latest revision by FEMA;
- (2) *Grange Hall Creek and Tributaries; Major Drainageway Planning Study*, February 1997 or latest revision;
- (3) *Flood Hazard Area Delineation Grange Hall Creek and Tributaries; Flood Hazard Delineation*, June 2018 or latest revision;
- (3) *Major Drainageway, South Platte River in Adams County*, 2005 or latest revision;
- (4) *Flood Hazard Area Delineation - South Platte River*, April 2005 or latest version;
- (5) *Niver Creek and Tributaries Major Drainageway Planning Study*, December 2016 or latest revision;
- (6) *Flood Hazard Area Delineation - Direct Flow Area 0054*, October 1980 or latest revision;
- (7) *Major Drainageway Planning, Direct Flow Area 0054*, October 1980 or latest version;
- (8) *Flood Hazard Area Delineation - Brantner Gulch and Tributaries*, January 1983 or latest revision;
- (9) *Brantner Gulch North Tributaries Major Drainageway Planning Study, Hydrology Report*, January 2006 or latest revision;
- (10) *Brantner Gulch Norther Tributaries Hydrology Update*; June 2010 or latest revision;
- (10) *Lower Brantner Gulch Major Drainageway Planning Update, Preliminary Design - Phase B Report*, January 2005 or latest revision;
- (11) *Basin 4100 and Direct Flow Area 0056 Outfall Systems Planning Study*, July 2002 or latest revision;
- (12) *Todd Creek and Direct Flow Area 0052 Outfall Systems Planning Study*, December 2003 or latest revision;
- (13) *Flood Hazard Area Delineation, Todd Creek*, December 1985 or latest revision;
- (14) *Broomfield and Vicinity Outfall Systems Planning Study*, September 1999 or latest revision;
- (15) *Flood Hazard Area Delineation - Quail Creek and Tributaries and McKay Lake Basin*, July 1986 or latest revision;
- (16) *Flood Hazard Area Delineation - Big Dry Creek (ADCO) North Area Tributaries*, July 1989 or latest revision;
- (17) *Outfall Systems Planning Update of Big Dry Creek Northern Tributaries, Conceptual Preliminary Design Report*, March 2007 or latest revision;
- (18) *Flood Hazard Area Delineation - Big Dry Creek, January 2012 or latest revision.*
- (19) *Big Dry Creek Major Drainageway Plan Conceptual Design Report, March 2012 or latest revision*
- (20) *Flood Hazard Area Delineation - Hoffman Drainage*, October 2007 or latest revision;
- (21) *Hoffman Drainage Major Drainageway Plan, Phase B, Conceptual Preliminary Design Report*, October 2008 or latest revision.

## Other recommendations for the 2022 Hazard Mitigation Planning process

1. Include all of the land that Thornton owns in Weld and Larimer Counties in the planning area. This idea was discussed with Thornton's representative at the State of Colorado prior to applying for the grant to fund this project. The anticipated costs of including this area have been incorporated into the total project cost.
2. Add (or incorporate within other hazards) the following:
  - a. Persistent poor air quality because of forest fires (consider ash from potential volcanic activity as well).
  - b. Ensure that activities that would result in increases in ground-level ozone precursor chemicals are addressed in the plan.
  - c. All of the public health, economic, and social challenges we have learned from the Coronavirus pandemic.
  - d. Thornton's Budget office recommends the 2022 HMP include a section on the implications of an economic downturn on the city's fiscal outlook.
3. Consider engaging Thornton's Community Connections and Senior Services divisions for information, insight, and recommendations regarding the potential adverse impacts of each hazard on Thornton's most vulnerable populations.
4. Consider engaging Thornton's Water Supply division in the process to contribute as appropriate regarding the vulnerability of Thornton's water supply to each hazard addressed in the Plan.
5. Consider engaging a representative of Metro Wastewater Reclamation District to incorporate their vulnerabilities into our plan since they provide an important service to Thornton. They may have a hazard mitigation plan, or similar plan, as well, which could serve as a resource to Thornton's planning process.
6. Consider addressing the implications of large fires and other hazards which may threaten land which provides Thornton with raw water.
7. Invite Thornton's water treatment plant management into the process to learn from them what hazards are of particular concern to them and may become threats to Thornton's ability to provide quality treated water to the community.
8. Consider establishing a section of elements which should best not be made public to help ensure security and possibly other appropriate reasons.
9. Consider modifying the recommended schedule of reviewing the 2022 Plan following its adoption.
10. Take into account the advice below:
  - i. We should include the name of the original writer of the MAG. Some of my MAGs are quite vague so trying to decipher original intent is quite difficult and ultimately creates weak or unresolved outcomes.

- a. As such we should strive in 2022 to really outline the intent of each MAG, the purpose and feasibility, and if that can't be reached, not include them in the plan. Our intent in 2017 was to honor the original submissions and not exclude anything. For future process improvement we should be more methodical in our MAG submissions.
- ii. We should look to develop MAGs that are not open ended and have clear end dates. This will help make the annual MAG review process more efficient.



## 2017 Hazard Mitigation Plan Evaluation

### A. The Planning Process

A1. Should any modifications be made to the HMP Planning Area.

**The 2017 Plan should not be amended to add or delete from the Planning area. However, the 2022 Plan should include all of the land area contained within the three cities, all of Thornton's Growth Area, and all of the land that Thornton owns in Larimer and Weld Counties.**

A2. Should there be any changes to the public or private businesses, organizations, or agencies that are involved with the Plan?

**All appropriate agencies, businesses, and organizations were included in the drafting of the 2017 Plan. Consideration should be given to expanding the list of entities invited to participate in the 2022 Plan as appropriate.**

A3. What public awareness activities have taken place in the past year?

**The plan has been available to the public on the city of Thornton's website continuously over the past year. No public events have been held at which the plan could have been promoted largely due to the Covid-19 pandemic.**

A4. How can public awareness of the Plan be improved in the year to come?

**In the year ahead, the 2022 Plan will be in the process of development. Appropriate public outreach will be conducted as a part of this process.**

A5. Have Thornton's priorities in regard to hazard mitigation planning changed over the past year in any meaningful ways?

**The Covid-19 pandemic has increased awareness of the extent and severity of public health hazards. The extensive fires that took place during the summer of 2020 also increased our awareness and understanding of the adverse impacts of poor air quality resulting from smoke and ash.**

A6. Is there any other relevant information to record at this time?

**None**

### B. Capability Assessment

B1. Has Thornton adopted or amended any plans, policies, codes, regulations, programs, or reports that have substantial influence on or should be incorporated into the Plan?

The following documents will be examined and considered in the process of conducting the 2022 Planning process (additional documents may be added):

- i. Employee Emergency Response Guide (2019) (and Building Appendices)
- ii. Thornton Emergency Operations Plan (2019)
- iii. Special Events – Severe Weather Plan (2018)
- iv. Thornton Closed Point of Dispensing (POD) Plan (2020)
- v. Thornton Fire Department COVID-19 Vaccine POD Plan (2020)
- vi. Thornton – America’s Water Infrastructure Act (AWIA) Community Water System Emergency Response Plan (ERP) (2020)
- vii. Niver Creek Detention Dam – Emergency Action Plan (2021)
- viii. City of Thornton Continuity of Operations and Continuity of Government Plans (COOP & COG)
- ix. 2020 Thornton Energy Action Plan
- x. 2020 Thornton Sustainability Action Agenda
- xi. 2020 Greenhouse Gas Inventory
- xii. Thornton Boomer Bond Assessment
- xiii. 2019 Thornton Drought Management Plan
- xiv. 2020 Thornton Comprehensive Plan

B2. Have any partnering public agencies adopted or amended any plans, codes, policies, regulations, programs, or reports that have substantial influence on or should be incorporated into this Plan?

**None to be incorporated into the 2017 Plan. A review will be conducted of appropriate agencies as a component of conducting the 2022 Plan to help ensure that all appropriate plans and other documents are taken into account.**

B3. Has Thornton’s capacity for hazard mitigation planning changed in the past year in the following categories: (One answer provided below.)

B3a: Administrative

B3b: Human Resources

B3c: Technical

B3d: Financial

B3e: Other

**Overall, Thornton’s adaptations in response to the Covid-19 global viral pandemic over the course of the past year have taught us ways to continue to provide high-quality service to the Thornton community while working remotely and in ways that meaningfully prevent the spread of the virus.**

B4. Has NFIP participation changed in Thornton over the past year?

No

C. Risk Assessment

C1. Describe any natural disasters that have taken place in or near Thornton over the course of the last year.

**The Coronavirus/Covid-19 pandemic affected Thornton extensively, as is true for much of the world.**

**The 2020 fire season was particularly extensive and destructive. The smoke/soot/ash-filled air blanketed the Denver area for an extensive period of time causing extremely poor air quality.**

**The City experienced a number of significant winter weather events including blizzards, the “Bomb Cyclone”, and record setting snow storms that impacted city utilities and the ability to provide everyday services.**

C2. Should the list of hazards addressed in the 2017 Plan be modified?

**No. However, more extensive/comprehensive consideration should be given to viral epidemics/pandemics and other broadly-threatening public health concerns, as well as the adverse impacts of fires and other natural events (such as volcanos) which have the potential to cause harmful air and water quality.**

C3. What new or updated data, maps, studies, or other information sources have become available in the past year that are relevant to hazard mitigation planning in Thornton?

**A review of all relevant sources of data, maps, etc. will be conducted as a part of the 2022 Planning process and incorporated into that Plan as appropriate.**

C4. Are there any new critical facilities or infrastructure that should be added to the map (pg. 180)?

**- New Fire Station 1, Fossil Ridge Public Safety Center/ Station 6, and New Thornton Water Plant**

C5. Has Thornton experienced any changes in development patterns that would have an impact on any natural hazard, and therefore any natural hazard planning in Thornton?

**Yes, residential development within the planning area has increased to include multi-family, single, and elder care or adult living facilities in areas that we previously undeveloped thus creating areas of potential impact that we once vacant open space.**

C6. Are there any repetitive losses to document?

**No.**

C7. Thornton’s Hazard Risk Summary, as described on page 50, identifies the following hazards and their associated risk level:

<u>High</u>	<u>Medium</u>	<u>Low</u>
Drought	Expansive soil/	Earthquakes
Flood	Undermined areas	Extreme Temps
Severe Storms	Public Health Hazards	Wildland Fires
Tornado/Severe Winds		

Has anything taken place in the last year that gives us reason to consider the re-ranking of any natural hazards?

**Yes. In the process of conducting the 2022 Plan, consideration will be given to re-ranking these, and potentially other hazards in light of what we have experienced and learned from the Covid-19 pandemic and wildfires over the course of the last year.**

D. Mitigation Strategy

D1. Are the Mitigation Action Guides providing the appropriate level of information and guidance to the city's project prioritization and decision-making processes?

**Mitigation Action Guides ranking process could be developed to review all MAGs collectively and better prioritize city mitigation efforts.**

D2. What, if anything, could be done in the year to come to help make the Mitigation Action Guides more effective?

**Update/replace them as appropriate in the process of conducting the 2022 Plan.**

D3. What new Mitigation Action Guides should be drafted?

**None at this time.**

D4. What amendments should be made to existing Mitigation Action Guides?

**Please see the attached MAG updates.**

D5. Which, if any, existing Mitigation Action Guides should be eliminated?

**Please see the attached MAG updates.**

D6. What, if any, new challenges should be recognized as obstacles to the completion of the Mitigation Actions?

**Please review the MAG reviews for this information.**

D7. Are there new funding sources to consider?

**Potentially funding may be available to support some MAG projects which will be reviewed in the 2022 Mitigation Plan update.**

D8. Have elements of the Plan been incorporated into other planning mechanisms?

**Yes. Most significantly, the 2020 Thornton Comprehensive Plan, the 2020 Thornton Energy Action Plan, and the 2020 Thornton Sustainability Action Agenda work in mutual support of the Hazard Mitigation Plan. In addition the Hazard Identification and Risk Assessment (HIRA) within the Plan were utilized in the development of the Emergency Operations Plan, Severe**

**Weather Plan and used in consideration of areas of focus for training and exercise scenarios within the Office of Emergency Management.**

D9. What can be done to increase the degree to which hazard mitigation planning elements can be incorporated into other planning processes in the future?

**In future planning processes, the goals of the Hazard Mitigation Plan should be considered and addressed by the other plans in supportive ways.**

E. Plan Maintenance

E1. Is the Plan being monitored and evaluated as anticipated?

**Thornton evaluated the Plan in 2018 and again in late 2020/early 2021. It was originally anticipated to be reviewed annually. The planned 2019 review did not take place due to the obligations associated with completing the 2020 Thornton Comprehensive Plan. The Covid 19 pandemic also had an impact on the timing of the current review.**

E2. What are needed improvements to the procedures?

**In the future, reviews should be done on an annual basis.**

MAG #	Mitigation Action Guide Title	Started &					Planned /	
		Completed	Underway	Budgeted	On CIP	Delayed	Not Budgeted	Canceled
TH1	104th & GHC S Trib					X		
TH2	112 <sup>th</sup> & Cherry Street Area					X		
TH3	128 <sup>th</sup> Avenue & Brantner Gulch	X						
TH4	136 <sup>th</sup> Ave to Wash on Big Dry Crk					X		
TH5	144 <sup>th</sup> Ave at Big Dry Creek		X					
TH6	Adopt an Emergency Ops Plan	X						
TH7	Major Trans Route Incident Resp Plan					X		
TH8	Advanced Metering Infrastructure							
TH9	Structural Engineer in Bldg Dept - <i>Project Cancelled in 2018 Review</i>							X
TH10	Big Dry Creek at RTD/UPRR embankment					X		
TH11	Big Dry Creek San Sewer Interceptor							
TH12	Build Relationships with AIA and SEAC - <i>Project Cancelled in 2018 Review</i>							X
TH13	Building Code Update	X						
TH14	Loss Prevention Project - <i>Project Cancelled in 2018 Review</i>							X
TH15	Continuity of Ops Tng for Local Businesses					X		
TH16	This MAG does not exist.							
TH17	This MAG does not exist.							
TH18	Colorado Blvd at Big Dry Creek					X		
TH19	Uninterrupted Coms/City Deps/Emergencies					X		
TH20	Community Emerg Response Tng Expansion		X					
TH21	Create a Crisis Communication Plan		X					
TH22	Purchase a Mobile Command Post						X	
TH23	Create an Emergency Response Unit							X
TH24	Create a Citywide Debris Management Plan					X		
TH25	West Cooley Reservoir Complex Spillway	X						
TH26	Emergency Management Staffing		X					
TH27	Emergency Operations Center (EOC) Training	X						
TH28	Emergency Shelter					X		
TH29	Emergency Ops Center (EOC) Dev Project		X					
TH30	Evaluate Technology Backup Resources		X					
TH31	Evaluate Stds and Specs for City Infrastructure						X	
TH32	Evaluate lift stations exposure to flood risk					X		
TH33	Evaluate sewer/water crossings at streams					X		
TH34	Expand and Improve Hazard Education for Seniors					X		
TH35	Expand the CodeRED Program		X					
TH36	Fire Code Updates		X					
TH37	Fire Station Building Maintenance		X					
TH38	Fire Station Emergency Procedures						X	
TH39	Flood Action Plan for Wes Brown Water Treatment Plant							X
TH40	Loss Prevention Project – Regulation Updates – Flood Notification System					X		
TH41	Schools as Inoculation Sites		X					
TH42	This MAG does not exist.							
TH43	Gravel Lakes Rip Rap Program		X					
TH44	Haz Mit in Comp Planning and Other Plans	X						
TH45	Hoffman Drainage		X		X			
TH46	Identify local orgs to assist w post-disaster needs					X		
TH47	Implement MHFD Projects Identified		X					
TH48	Incorporate resiliency in Utility Master Plan	X						
TH49	Increase fuel, salt, and sand storage for winter storms	X						
TH50	Increase Staffing for EM Projects	X						
TH51	Investigating Citywide Fiber Optics		X					
TH52	Lakeview Estates Drainage Corrections	X					X	
TH53	Lightning Detectors					X		
TH54	Loss Prevention Project - Building Resiliency	X						
TH55	Niver Creek Tributary M		X			X		
TH56	Public Warning / Notification Project	X						
TH57	Public Outreach Project		X			X		
TH58	Ozone Treatment at Wes Brown Tmt Plant					X		
TH59	Public Education on Snow Removal	X				X		
TH60	Purchase Portable Cell Towers							
TH61	Reduce expansion of Emerald Ash Borer		X	X	X			
TH62	Remote Work Capability		X					
TH63	Bring commercial buildings out of the floodway					X		
TH64	Repetitive loss structure identification		X			X		
TH65	Reservoir Spillway Project	X						
TH66	River/Stream Gauge Project	X						
TH67	School Tributary		X					
TH68	Incorporate Age-Restricted Communities, Nursing Hom	X						
TH69	Stockpiling Emergency Shelters					X		
TH70	Stockpiling Fire Stations		X					
TH71	Tertiary Data Center Location						X	
TH72	Thornton as Emergency Transportation for Seniors		X					
TH73	Thornton Facilities as Temporary Shelter for Seniors		X					
TH74	Community Tornado Shelters					X		
TH75	Tornado Sirens							X
TH76	Urban Drainage Master Plan Updates		X					
TH77	Utilize Local Organizations for Messaging		X					
TH78	Villages N. Detention Basin Emrg. Overflow Structure	X						
TH79	Volunteer Emergency Response Units	X						
TH80	Washington St and GHC South Tributary					X		
TH81	Water Conservation Plan Update and Implementation	X	X	X				
TH82	West Sprat Platte Reservoir Spillway	X						
TH83	York St & Big Dry Creek, E-470 to York		X					
TH84	Hazardous Tree Mitigation		X	X	X			

# 2017 Thornton, Federal Heights, and Northglenn Hazard Mitigation Plan

## Mitigation Action Guide 2020 Progress Report Form

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**Please complete one Form for each Mitigation Action Guide (MAG):**

Project Name: (TH1) 104<sup>th</sup> & GHC South Tributary

MAG Number: TH1

Review Date: 1/20/2021

Reviewer Name: Jim Kaiser

Thornton Department: Infrastructure

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**Project Status:**

Project Completed

Completion Date:

Project Started and Underway

Anticipated Completion Date:

Project Budgeted

Anticipated Start Date:

Project on CIP

CIP Project Number:

Project Delayed

Please Explain Below.

Project Planned but not Budgeted

Plan Name and Page:

Project Canceled

Please explain below.

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**Project Progress Updates (Use additional pages as necessary):**

Accomplishments over the last two years: Have completed Major Drainageway Plan update in 2018 for Grange Hall Creek.

Obstacles, Problems, or Delays: On future priority list for stormwater fund projects. Higher priority project further upstream on this tributary.

Is the project still relevant? If not, please explain: yes

Should the project be modified or eliminated? no

Other Comments:

# 2017 Thornton, Federal Heights, and Northglenn Hazard Mitigation Plan

## Mitigation Action Guide 2020 Progress Report Form

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### Please complete one Form for each Mitigation Action Guide (MAG):

Project Name: (TH2) 112<sup>th</sup> & Cherry Street Area

MAG Number: TH2

Review Date: 1/20/2021

Reviewer Name: Jim Kaiser

Thornton Department: Infrastructure

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### Project Status:

<input type="checkbox"/> Project Completed	Completion Date:
<input type="checkbox"/> Project Started and Underway	Anticipated Completion Date:
<input type="checkbox"/> Project Budgeted	Anticipated Start Date:
<input type="checkbox"/> Project on CIP	CIP Project Number:
<input checked="" type="checkbox"/> Project Delayed	Please Explain Below.
<input type="checkbox"/> Project Planned but not Budgeted	Plan Name and Page:
<input type="checkbox"/> Project Canceled	Please explain below.

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### Project Progress Updates (Use additional pages as necessary):

Accomplishments over the last two years: This area is a part of the Woodglen Masterplan update that is underway now.

Obstacles, Problems, or Delays: The master plan update will better define design flows and project needs. Then, this can be prioritized with the stormwater fund projects.

Is the project still relevant? If not, please explain: yes

Should the project be modified or eliminated? no

Other Comments:



# 2017 Thornton, Federal Heights, and Northglenn Hazard Mitigation Plan

## Mitigation Action Guide 2020 Progress Report Form

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### Please complete one Form for each Mitigation Action Guide (MAG):

Project Name: (TH3) 128<sup>th</sup> Avenue & Brantner Gulch

MAG Number: (TH3)

Review Date: 12/3/2020

Reviewer Name: Jim Kaiser

Thornton Department: Infrastructure

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### Project Status:

<input checked="" type="checkbox"/> Project Completed	Completion Date: 8/4/2020
<input type="checkbox"/> Project Started and Underway	Anticipated Completion Date:
<input type="checkbox"/> Project Budgeted	Anticipated Start Date:
<input type="checkbox"/> Project on CIP	CIP Project Number: 19-243
<input type="checkbox"/> Project Delayed	Please Explain Below.
<input type="checkbox"/> Project Planned but not Budgeted	Plan Name and Page:
<input type="checkbox"/> Project Canceled	Please explain below.

---

### Project Progress Updates (Use additional pages as necessary):

Accomplishments over the last two years: The stormwater utility funded a project that installed three new culverts parallel to the existing culvert. This is estimated to provide a 10-year conveyance. The Brantner Gulch masterplan/FHAD is also in progress, which will update design flows for the basin.

Obstacles, Problems, or Delays: Inadequate funding to achieve 100-year conveyance

Is the project still relevant? If not, please explain:

Should the project be modified or eliminated? Define a new MAG for the 2022 update based on the master plan/FHAD, once completed to achieve 100-year conveyance

Other Comments:

# 2017 Thornton, Federal Heights, and Northglenn Hazard Mitigation Plan

## Mitigation Action Guide 2020 Progress Report Form

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**Please complete one Form for each Mitigation Action Guide (MAG):**

Project Name: (TH4) 136<sup>th</sup> Ave to Washington St on Big Dry Creek

MAG Number: TH4

Review Date: 12/14/2020

Reviewer Name: Jim Kaiser

Thornton Department: Infrastructure

---

**Project Status:**

<input type="checkbox"/> Project Completed	Completion Date:
<input type="checkbox"/> Project Started and Underway	Anticipated Completion Date:
<input type="checkbox"/> Project Budgeted	Anticipated Start Date:
<input type="checkbox"/> Project on CIP	CIP Project Number:
<input checked="" type="checkbox"/> Project Delayed	Please Explain Below.
<input type="checkbox"/> Project Planned but not Budgeted	Plan Name and Page:
<input type="checkbox"/> Project Canceled	Please explain below.

---

**Project Progress Updates (Use additional pages as necessary):**

Accomplishments over the last two years: no progress

Obstacles, Problems, or Delays: This project is on the stormwater fund future project priority list. It makes the most sense to complete this project along with an adjacent development project. Is the project still relevant? If not, please explain: yes

Should the project be modified or eliminated? no

Other Comments: Update 'Objective' to read: "Provide 100-year conveyance for Big Dry Creek at Washington Street; Mitigate flooding to major arterial" (there presently are no "residents" in the floodplain in the area this would benefit.)

# 2017 Thornton, Federal Heights, and Northglenn Hazard Mitigation Plan

## Mitigation Action Guide 2020 Progress Report Form

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**Please complete one Form for each Mitigation Action Guide (MAG):**

Project Name: (TH5) 144<sup>th</sup> Ave at Big Dry Creek

MAG Number: TH5

Review Date: 12/14/2020

Reviewer Name: Jim Kaiser

Thornton Department: Infrastructure

---

**Project Status:**

<input type="checkbox"/> Project Completed	Completion Date:
<input checked="" type="checkbox"/> Project Started and Underway	Anticipated Completion Date: September 2021
<input type="checkbox"/> Project Budgeted	Anticipated Start Date:
<input type="checkbox"/> Project on CIP	CIP Project Number:
<input type="checkbox"/> Project Delayed	Please Explain Below.
<input type="checkbox"/> Project Planned but not Budgeted	Plan Name and Page:
<input type="checkbox"/> Project Canceled	Please explain below.

---

**Project Progress Updates (Use additional pages as necessary):**

Accomplishments over the last two years: Additional culvert capacity to provide approximately 10-year conveyance is under construction with a roadway widening project

Obstacles, Problems, or Delays: Inadequate funding and ROW to accomplish 100-year conveyance. Given magnitude of current project, future improvements to conveyance will be limited to adding culvert cells rather than raising the roadway out of the floodplain.

Is the project still relevant? If not, please explain: yes

Should the project be modified or eliminated? no

Other Comments:

# 2017 Thornton, Federal Heights, and Northglenn Hazard Mitigation Plan

## Mitigation Action Guide 2020 Progress Report Form

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### Please complete one Form for each Mitigation Action Guide (MAG):

Project Name: Adopt an Emergency Operations Plan

MAG Number: TH6

Review Date: 12/11/20

Reviewer Name: Ryan Doyle

Thornton Department: Management Services – Risk

---

### Project Status:

<input checked="" type="checkbox"/> Project Completed	Completion Date: 3/26/19
<input type="checkbox"/> Project Started and Underway	Anticipated Completion Date:
<input type="checkbox"/> Project Budgeted	Anticipated Start Date:
<input type="checkbox"/> Project on CIP	CIP Project Number:
<input type="checkbox"/> Project Delayed	Please Explain Below.
<input type="checkbox"/> Project Planned but not Budgeted	Plan Name and Page:
<input type="checkbox"/> Project Canceled	Please explain below.

---

### Project Progress Updates (Use additional pages as necessary):

Accomplishments over the last two years: EOP planning process was started by a multi-department planning team in 2017 under City Manager Jack Ethredge. The final draft version was presented to the new City Manager Kevin Woods in November 2018 but required additional editing. The final version was approved by the City Manager Kevin Woods in March 2019. Per CMO direction, EOP did not require City Council approval but a presentation/training would be provided to Council at a future date TBD. Three EOP Orientation Seminars were held with Department Representatives in the 4<sup>th</sup> Quarter of 2019.

Obstacles, Problems, or Delays: EOP was a coordinated effort of all city departments and some external partners. Additional outreach to other community and external partners, and continued development of hazard specific and functional annexes is needed in future planning updates.

Is the project still relevant? If not, please explain: Yes, this is a living document. It will be reviewed regularly and at least annually. It will have a full review every 3-5 years. The EOP is the City's operational response document to natural hazards and vulnerabilities identified in the Mitigation Plan.

Should the project be modified or eliminated? Completed/ Deleted. At this point, based on original intent of updating the EOP from the 1999 version. This project is complete. New MAGs should include development of EOP Annexes for specific hazards and functional operations to address vulnerabilities identified in this and future Mitigation Plan updates.

Other Comments:

# 2017 Thornton, Federal Heights, and Northglenn Hazard Mitigation Plan

## Mitigation Action Guide 2020 Progress Report Form

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### Please complete one Form for each Mitigation Action Guide (MAG):

Project Name: Create and Adopt Major Transportation Route Incident Response Plan

MAG Number: TH7

Review Date: 12/11/20

Reviewer Name: Ryan Doyle

Thornton Department: Management Services – Risk Management

---

### Project Status:

<input type="checkbox"/> Project Completed	Completion Date:
<input type="checkbox"/> Project Started and Underway	Anticipated Completion Date:
<input type="checkbox"/> Project Budgeted	Anticipated Start Date:
<input type="checkbox"/> Project on CIP	CIP Project Number:
<input checked="" type="checkbox"/> Project Delayed	Please Explain Below.
<input type="checkbox"/> Project Planned but not Budgeted	Plan Name and Page:
<input type="checkbox"/> Project Canceled	Please explain below.

---

### Project Progress Updates (Use additional pages as necessary):

Accomplishments over the last two years: No movement on this project.

Obstacles, Problems, or Delays: This project needs better description and greater development to be successful. What does the term Major Transportation Route(s) mean when the description only discusses roadways? Thornton is situated with multiple Highways and Interstates but is also on the flight path for DIA and has the new North Metro Commuter Rail line. The planning team should reevaluate this MAG to better describe the type of plan that's needed and its intended audience. Additionally this may be more of a Fire Dept. specific plan as they're typically first to arrive to accidents and develop incident response plans.

Is the project still relevant? If not, please explain: Yes, but needs more development.

Should the project be modified or eliminated? Modified, to identify the type of plan, the types of transportation accidents, and the appropriate audience. Currently this MAG is too generic.

Other Comments:

# 2017 Thornton, Federal Heights, and Northglenn Hazard Mitigation Plan

## Mitigation Action Guide 2020 Progress Report Form

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**Please complete one Form for each Mitigation Action Guide (MAG):**

Project Name: (TH8) Installation of Advanced Metering Infrastructure

MAG Number: TH8

Review Date: 2/2/2021

Reviewer Name: Jason Montoya

Thornton Department: Infrastructure

---

**Project Status:**

Project Completed

Completion Date:

Project Started and Underway

Anticipated Completion Date: 2023

Project Budgeted

Anticipated Start Date: 2020

Project on CIP

CIP Project Number:

Project Delayed

Please Explain Below.

Project Planned but not Budgeted

Plan Name and Page:

Project Canceled

Please explain below.

---

**Project Progress Updates (Use additional pages as necessary):**

Accomplishments over the last two years: Meter Bid out on the street, about to complete and post RFP for AMI project. Starting recruitment for two contract employees.

Obstacles, Problems, or Delays:

Is the project still relevant? If not, please explain: Yes

Should the project be modified or eliminated? No

Other Comments:

# 2017 Thornton, Federal Heights, and Northglenn Hazard Mitigation Plan

## Mitigation Action Guide 2020 Progress Report Form

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**Please complete one Form for each Mitigation Action Guide (MAG):**

Project Name: (TH10) Big Dry Creek at RTD (UPRR) Railroad embankment

MAG Number: TH10

Review Date: 1/20/2021

Reviewer Name: Jim Kaiser

Thornton Department: Infrastructure

---

### Project Status:

<input type="checkbox"/> Project Completed	Completion Date:
<input type="checkbox"/> Project Started and Underway	Anticipated Completion Date:
<input type="checkbox"/> Project Budgeted	Anticipated Start Date:
<input type="checkbox"/> Project on CIP	CIP Project Number:
<input type="checkbox"/> Project Delayed	Please Explain Below.
<input checked="" type="checkbox"/> Project Planned but not Budgeted	Plan Name and Page:
<input type="checkbox"/> Project Canceled	Please explain below.

---

### Project Progress Updates (Use additional pages as necessary):

Accomplishments over the last two years: no progress

Obstacles, Problems, or Delays: This project is on the stormwater fund future project priority list. This will likely not happen until RTD North Metro Line commuter rail is extended this far.

Is the project still relevant? If not, please explain: yes

Should the project be modified or eliminated? no

Other Comments:

# 2017 Thornton, Federal Heights, and Northglenn Hazard Mitigation Plan

## Mitigation Action Guide 2020 Progress Report Form

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**Please complete one Form for each Mitigation Action Guide (MAG):**

Project Name: (TH11) Big Dry Creek Sanitary Sewer Interceptor

MAG Number: TH11

Review Date: 1/28/2021

Reviewer Name: Jason Pierce, Kristin Schwartz

Thornton Department: Infrastructure

---

**Project Status:**

<input type="checkbox"/> Project Completed	Completion Date:
<input type="checkbox"/> Project Started and Underway	Anticipated Completion Date:
<input type="checkbox"/> Project Budgeted	Anticipated Start Date:
<input type="checkbox"/> Project on CIP	CIP Project Number:
<input type="checkbox"/> Project Delayed	Please Explain Below.
<input checked="" type="checkbox"/> Project Planned but not Budgeted	Plan Name and Page:
<input type="checkbox"/> Project Canceled	Please explain below.

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**Project Progress Updates (Use additional pages as necessary):**

Accomplishments over the last two years: Utilities Master Plan prioritizing segments of parallel interceptor is being updated. Modeling to determine current (if any) capacity issues.

Obstacles, Problems, or Delays: Limited budget

Is the project still relevant? If not, please explain: Yes

Should the project be modified or eliminated? No

Other Comments:



# 2017 Thornton, Federal Heights, and Northglenn Hazard Mitigation Plan

## Mitigation Action Guide 2020 Progress Report Form

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**Please complete one Form for each Mitigation Action Guide (MAG):**

Project Name: Building Code Update

MAG Number: TH13

Review Date: 11/25/2020

Reviewer Name: Jim Bilyeu, Plans Examining Supervisor

Thornton Department: City Development/Building Inspection

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**Project Status:**

<input checked="" type="checkbox"/> Project Completed	Completion Date: 9/16/2019
<input type="checkbox"/> Project Started and Underway	Anticipated Completion Date:
<input checked="" type="checkbox"/> Project Budgeted	Anticipated Start Date: 7/2021
<input type="checkbox"/> Project on CIP	CIP Project Number:
<input type="checkbox"/> Project Delayed	Please Explain Below.
<input type="checkbox"/> Project Planned but not Budgeted	Plan Name and Page:
<input type="checkbox"/> Project Canceled	Please explain below.

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**Project Progress Updates (Use additional pages as necessary):**

Accomplishments over the last two years: Adopted the 2018 International Codes

Obstacles, Problems, or Delays:

Is the project still relevant? If not, please explain: Yes

Should the project be modified or eliminated? No

Other Comments:

# 2017 Thornton, Federal Heights, and Northglenn Hazard Mitigation Plan

## Mitigation Action Guide 2020 Progress Report Form

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**Please complete one Form for each Mitigation Action Guide (MAG):**

Project Name: Continuity of Operations Training for Local Businesses

MAG Number: TH15

Review Date: 12/12/20

Reviewer Name: Ryan Doyle

Thornton Department: Management Services – Risk Management

---

**Project Status:**

<input type="checkbox"/> Project Completed	Completion Date:
<input type="checkbox"/> Project Started and Underway	Anticipated Completion Date:
<input type="checkbox"/> Project Budgeted	Anticipated Start Date:
<input type="checkbox"/> Project on CIP	CIP Project Number:
<input checked="" type="checkbox"/> Project Delayed	Please Explain Below.
<input type="checkbox"/> Project Planned but not Budgeted	Plan Name and Page:
<input type="checkbox"/> Project Canceled	Please explain below.

---

**Project Progress Updates (Use additional pages as necessary):**

Accomplishments over the last two years: No progress on this project.

Obstacles, Problems, or Delays: This project is part of public education and outreach to local businesses. For the last four years, EM has had only a part-time position and as such public education was limited to other programs that show greater return on investment. Business continuity is also the responsibility of local business owners and as the City EM, we are here to provide resources, training, and exercises, but not write their plans for them. We've had requests to write emergency plans for businesses but have not gotten requests for COOP Training. Now that the City has a full time position in EM and a local business center, we have more opportunities to provide training to those who need it. Additionally with the Pandemic, many more businesses will likely looking to develop COOP Plans. This project is more likely to get initiated in the coming years than it was the prior years.

Is the project still relevant? If not, please explain: Yes.

Should the project be modified or eliminated? No.

Other Comments:

# 2017 Thornton, Federal Heights, and Northglenn Hazard Mitigation Plan

## Mitigation Action Guide 2020 Progress Report Form

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**Please complete one Form for each Mitigation Action Guide (MAG):**

Project Name: (TH18) Colorado Blvd at Big Dry Creek

MAG Number: TH18

Review Date: 1/20/2021

Reviewer Name: Jim Kaiser

Thornton Department: Infrastructure

---

**Project Status:**

<input type="checkbox"/> Project Completed	Completion Date:
<input type="checkbox"/> Project Started and Underway	Anticipated Completion Date:
<input type="checkbox"/> Project Budgeted	Anticipated Start Date:
<input type="checkbox"/> Project on CIP	CIP Project Number:
<input checked="" type="checkbox"/> Project Delayed	Please Explain Below.
<input type="checkbox"/> Project Planned but not Budgeted	Plan Name and Page:
<input type="checkbox"/> Project Canceled	Please explain below.

---

**Project Progress Updates (Use additional pages as necessary):**

Accomplishments over the last two years: no progress

Obstacles, Problems, or Delays: This project is on the stormwater fund future project priority list. It is anticipated that adjacent development will be the catalyst for this project, currently there are no plans in for review for this development.

Is the project still relevant? If not, please explain: yes

Should the project be modified or eliminated? no

Other Comments:

# 2017 Thornton, Federal Heights, and Northglenn Hazard Mitigation Plan

## Mitigation Action Guide 2020 Progress Report Form

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### Please complete one Form for each Mitigation Action Guide (MAG):

Project Name: Uninterrupted Communications between City Departments during Emergencies

MAG Number: TH19

Review Date: 12/12/20

Reviewer Name: Ryan Doyle

Thornton Department: Management Services – Risk Management

---

### Project Status:

<input type="checkbox"/> Project Completed	Completion Date:
<input type="checkbox"/> Project Started and Underway	Anticipated Completion Date:
<input type="checkbox"/> Project Budgeted	Anticipated Start Date:
<input type="checkbox"/> Project on CIP	CIP Project Number:
<input checked="" type="checkbox"/> Project Delayed	Please Explain Below.
<input type="checkbox"/> Project Planned but not Budgeted	Plan Name and Page:
<input type="checkbox"/> Project Canceled	Please explain below.

---

### Project Progress Updates (Use additional pages as necessary):

Accomplishments over the last two years: A project specifically to improve communications between buildings using hardline phones or radios has not been started due to the low priority status, funding, and perceived need. We currently have multiple options for communicating between buildings, departments and staffing, including cell phone, desk phone, email, citywide use of video conferencing and backup emergency radios available from fire and police.

Obstacles, Problems, or Delays: See above.

Is the project still relevant? If not, please explain: Not sure if this is still relevant as we communicate through multiple different avenues and have the ability if needed to use emergency radios from Fire and Police.

Should the project be modified or eliminated? Potentially eliminated.

Other Comments:

# 2017 Thornton, Federal Heights, and Northglenn Hazard Mitigation Plan

## Mitigation Action Guide 2020 Progress Report Form

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**Please complete one Form for each Mitigation Action Guide (MAG):**

Project Name: Community Emergency Response Training Expansion

MAG Number: TH20

Review Date: 12/16/20

Reviewer Name: Ryan Doyle

Thornton Department: Management Services – Risk Management

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**Project Status:**

<input type="checkbox"/> Project Completed	Completion Date:
<input checked="" type="checkbox"/> Project Started and Underway	Anticipated Completion Date:
<input type="checkbox"/> Project Budgeted	Anticipated Start Date:
<input type="checkbox"/> Project on CIP	CIP Project Number:
<input type="checkbox"/> Project Delayed	Please Explain Below.
<input type="checkbox"/> Project Planned but not Budgeted	Plan Name and Page:
<input type="checkbox"/> Project Canceled	Please explain below.

---

**Project Progress Updates (Use additional pages as necessary):**

Accomplishments over the last two years: In the last two years the CERT Program has made a number of strides forward in expansion. The Bylaws were completed and the Leadership Team began an onboarding process to recruit more CERT graduates to join the team. We've also held two sessions of interviews with approximately 10 more members joining the team. We've held our annual CERT Trainings in 2019 and 2020 with a multi-CERT exercise in 2019.

Obstacles, Problems, or Delays: The current issue is again just a lack of time to devote to the program to continue to maintain regular trainings but also build the team. We will be looking to bring on a part-time intern in the coming year(s) to help manage and develop the program. The program continues to show success although incremental in getting residents involved in supporting their community during emergencies. The best examples of that is the CERT support of our large special events at Thorntonfest and July 4<sup>th</sup> Fireworks.

Is the project still relevant? If not, please explain: Yes

Should the project be modified or eliminated? Not at this time.

Other Comments:

# 2017 Thornton, Federal Heights, and Northglenn Hazard Mitigation Plan

## Mitigation Action Guide 2020 Progress Report Form

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### Please complete one Form for each Mitigation Action Guide (MAG):

Project Name: Create a Crisis Communication Plan

MAG Number: TH21

Review Date: 12/23/20

Reviewer Name: Ryan Doyle

Thornton Department: Management Services – Risk Management

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### Project Status:

<input type="checkbox"/> Project Completed	Completion Date:
<input checked="" type="checkbox"/> Project Started and Underway	Anticipated Completion Date:
<input type="checkbox"/> Project Budgeted	Anticipated Start Date:
<input type="checkbox"/> Project on CIP	CIP Project Number:
<input type="checkbox"/> Project Delayed	Please Explain Below.
<input type="checkbox"/> Project Planned but not Budgeted	Plan Name and Page:
<input type="checkbox"/> Project Canceled	Please explain below.

---

### Project Progress Updates (Use additional pages as necessary):

Accomplishments over the last two years: The completion of the EOP in 2019 assisted with the advancement of this project as it lays the framework for position responsibilities of the Public Information Officer (PIO), and the development and function of the Joint Information Center (JIC), and Joint Information System (JIS). However a Crisis Communication Plan that involves the full breathe of planning considerations for public affairs coordination, information management, public alert and warning, multi-jurisdictional coordination, and integrating of ADA considerations in all messaging still needs to be developed.

Obstacles, Problems, or Delays: Main obstacles have been other priorities with limited time to devote to this project. Although this process is very important and has been identified within a strategic plan, the development of the EOP and other plans needed to come first. We will begin working on this plan though now that the EOP is complete.

Is the project still relevant? If not, please explain: Yes

Should the project be modified or eliminated? No, not at this time.

Other Comments:

# 2017 Thornton, Federal Heights, and Northglenn Hazard Mitigation Plan

## Mitigation Action Guide 2020 Progress Report Form

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### Please complete one Form for each Mitigation Action Guide (MAG):

Project Name: Purchase a Mobile Command Post

MAG Number: TH22

Review Date: November 24, 2020

Reviewer Name: Interim Deputy Chief Greg Reeves

Thornton Department: Police

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### Project Status:

<input type="checkbox"/> Project Completed	Completion Date:
<input type="checkbox"/> Project Started and Underway	Anticipated Completion Date:
<input type="checkbox"/> Project Budgeted	Anticipated Start Date:
<input type="checkbox"/> Project on CIP	CIP Project Number:
<input type="checkbox"/> Project Delayed	Please Explain Below.
<input checked="" type="checkbox"/> Project Planned but not Budgeted	Plan Name and Page:
<input type="checkbox"/> Project Canceled	Please explain below.

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### Project Progress Updates (Use additional pages as necessary):

Accomplishments over the last two years:

- Worked on grants to secure funding but yet to receive approval for the amount needed to fund a vehicle.

Obstacles, Problems, or Delays:

- Financial obstacles in the funding for such a vehicle. Will continue to pursue grants.

Is the project still relevant? If not, please explain:

- Yes – Would still need a command van for major incident/disasters.

Should the project be modified or eliminated?

- Not at this time. Continue to work towards the goal of securing a citywide command post vehicle.

Other Comments:

- We have received denial on the previous submitted grant. At this time, we have no grant applicants in the works. Project status should be moved to delayed until we can find additional sources of funding.
- Funding due to the delay should be increased to 1.9m to cover inflation.

# 2017 Thornton, Federal Heights, and Northglenn Hazard Mitigation Plan

## Mitigation Action Guide 2020 Progress Report Form

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**Please complete one Form for each Mitigation Action Guide (MAG):**

Project Name: Create an Emergency Response Unit

MAG Number: TH23

Review Date: 12/23/20

Reviewer Name: Ryan Doyle

Thornton Department: Management Services – Risk Management

---

**Project Status:**

<input type="checkbox"/> Project Completed	Completion Date:
<input type="checkbox"/> Project Started and Underway	Anticipated Completion Date:
<input type="checkbox"/> Project Budgeted	Anticipated Start Date:
<input type="checkbox"/> Project on CIP	CIP Project Number:
<input type="checkbox"/> Project Delayed	Please Explain Below.
<input type="checkbox"/> Project Planned but not Budgeted	Plan Name and Page:
<input checked="" type="checkbox"/> Project Canceled	Please explain below.

---

**Project Progress Updates (Use additional pages as necessary):**

Accomplishments over the last two years: See accomplishments related to the CERT Program.

Obstacles, Problems, or Delays: N/A

Is the project still relevant? If not, please explain: Yes

Should the project be modified or eliminated? Yes, deleted. This project is aimed at the development of an auxiliary volunteer group to help support first responders before, during, and after a disaster. That is the purpose and scope of our CERT Program which already exists and has other MAG projects identified to improve the program. Additionally internally within the City workforce, Emergency Response Teams (ERTs) have been developed at each city building to aid in helping fellow employees during emergencies and disasters which does increase our resiliency in responding to those events outside of Fire, Police, and Infrastructure. This MAG should be deleted.

Other Comments:



# 2017 Thornton, Federal Heights, and Northglenn Hazard Mitigation Plan

## Mitigation Action Guide 2020 Progress Report Form

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**Please complete one Form for each Mitigation Action Guide (MAG):**

Project Name: Create a Citywide Debris Management Plan

MAG Number: TH24

Review Date: 12/23/20

Reviewer Name: Ryan Doyle

Thornton Department: Management Services – Risk Management

---

**Project Status:**

<input type="checkbox"/> Project Completed	Completion Date:
<input type="checkbox"/> Project Started and Underway	Anticipated Completion Date:
<input type="checkbox"/> Project Budgeted	Anticipated Start Date:
<input type="checkbox"/> Project on CIP	CIP Project Number:
<input checked="" type="checkbox"/> Project Delayed	Please Explain Below.
<input type="checkbox"/> Project Planned but not Budgeted	Plan Name and Page:
<input type="checkbox"/> Project Canceled	Please explain below.

---

**Project Progress Updates (Use additional pages as necessary):**

Accomplishments over the last two years: None, although in 2017 and 2018 Thornton EM did attend a regional workshop and trainings related to debris management and financial reimbursement during disaster which increased our overall knowledge of the intricacies of debris management. Additionally with the completion of the EOP, staff have been identify to serve in the EOC as debris management subject matter experts (SMEs). This will aid in the future development of this plan.

Obstacles, Problems, or Delays: Currently not a planning priority as other plans like crisis communications are more important at the moment.

Is the project still relevant? If not, please explain: Yes.

Should the project be modified or eliminated? No.

Other Comments:

# 2017 Thornton, Federal Heights, and Northglenn Hazard Mitigation Plan

## Mitigation Action Guide 2020 Progress Report Form

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**Please complete one Form for each Mitigation Action Guide (MAG):**

Project Name: (TH25) West Cooley Reservoir Complex Spillway

MAG Number: TH25

Review Date: 12/7/2020

Reviewer Name: Jason Pierce

Thornton Department: Infrastructure

---

**Project Status:**

<input checked="" type="checkbox"/> Project Completed	Completion Date: August 2020
<input type="checkbox"/> Project Started and Underway	Anticipated Completion Date: Q1 2021
<input type="checkbox"/> Project Budgeted	Anticipated Start Date:
<input type="checkbox"/> Project on CIP	CIP Project Number: 16-351
<input type="checkbox"/> Project Delayed	Please Explain Below.
<input type="checkbox"/> Project Planned but not Budgeted	Plan Name and Page:
<input type="checkbox"/> Project Canceled	Please explain below.

---

**Project Progress Updates (Use additional pages as necessary):**

Accomplishments over the last two years: Project completed.

Obstacles, Problems, or Delays:

Is the project still relevant? If not, please explain: yes

Should the project be modified or eliminated? no

Other Comments: CIP # 16-351 Identical to MAG 65

# 2017 Thornton, Federal Heights, and Northglenn Hazard Mitigation Plan

## Mitigation Action Guide 2020 Progress Report Form

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### Please complete one Form for each Mitigation Action Guide (MAG):

Project Name: Emergency Management Staffing

MAG Number: TH26

Review Date: 12/23/20

Reviewer Name: Ryan Doyle

Thornton Department: Management Services – Risk Management

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### Project Status:

<input type="checkbox"/> Project Completed	Completion Date:
<input checked="" type="checkbox"/> Project Started and Underway	Anticipated Completion Date:
<input type="checkbox"/> Project Budgeted	Anticipated Start Date:
<input type="checkbox"/> Project on CIP	CIP Project Number:
<input type="checkbox"/> Project Delayed	Please Explain Below.
<input type="checkbox"/> Project Planned but not Budgeted	Plan Name and Page:
<input type="checkbox"/> Project Canceled	Please explain below.

---

### Project Progress Updates (Use additional pages as necessary):

Accomplishments over the last two years: EM has had great success on this project. In Fall 2018, Risk Management was approved for a full time EM position. It was a lot of hard work to illustrate the need for a fulltime position to management. In addition, in 2019 the city hired a full time Safety Administrator responsible for all occupational and employee related safety programs. EM did also begin to explore the possibility of getting a paid intern.

Obstacles, Problems, or Delays: Approval from the Finance, Budget and City Manager's Office is what caused most delays

Is the project still relevant? If not, please explain: Yes.

Should the project be modified or eliminated? Yes, this project should be modified. It is unrealistic in the current environment that a municipal EM program have more than one paid permanent position. No other municipality within the State (unless large 500K or more) has more than one EM position. So this MAG should be edited to delete the one part-time paid professional EM position. That is highly unlikely to occur. However the MAG should remain as an internship position is much more feasible and would greatly improve our EM Program capability and capacity.

Other Comments:

# 2017 Thornton, Federal Heights, and Northglenn Hazard Mitigation Plan

## Mitigation Action Guide 2020 Progress Report Form

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### Please complete one Form for each Mitigation Action Guide (MAG):

Project Name: Emergency Operations Center (EOC) Training

MAG Number: TH27

Review Date: 12/23/20

Reviewer Name: Ryan Doyle

Thornton Department: Management Services – Risk Management

---

### Project Status:

<input checked="" type="checkbox"/> Project Completed	Completion Date: January 2019
<input type="checkbox"/> Project Started and Underway	Anticipated Completion Date:
<input type="checkbox"/> Project Budgeted	Anticipated Start Date:
<input type="checkbox"/> Project on CIP	CIP Project Number:
<input type="checkbox"/> Project Delayed	Please Explain Below.
<input type="checkbox"/> Project Planned but not Budgeted	Plan Name and Page:
<input type="checkbox"/> Project Canceled	Please explain below.

---

### Project Progress Updates (Use additional pages as necessary):

Accomplishments over the last two years: In December 2018, EM held a tabletop exercise and workshop based on the then draft EOP for a winter storm. This included basic training for identified positions. Additionally the EOP was completed and approved in 2019, following that approval Emergency Management held three separate EOC Orientation Trainings for approximately 52 EOC staff identified within the EOP. The EM will continue to push EOC related training for EOC staff on a regular basis as well as conduct annual exercises as part of a training and exercise program.

Obstacles, Problems, or Delays: EOP approval

Is the project still relevant? If not, please explain: Yes.

Should the project be modified or eliminated? Yes, completed. Based on the description, this MAG has been met. As training and exercise are a continual process, a new MAG should be developed stating the goal of that program or another specific T&E Goal that has a end goal in mind.

Other Comments:

# 2017 Thornton, Federal Heights, and Northglenn Hazard Mitigation Plan

## Mitigation Action Guide 2020 Progress Report Form

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**Please complete one Form for each Mitigation Action Guide (MAG):**

Project Name: Emergency Shelter

MAG Number: TH28

Review Date: 12/23/20

Reviewer Name: Ryan Doyle

Thornton Department: Management Services – Risk Management

---

**Project Status:**

<input type="checkbox"/> Project Completed	Completion Date:
<input type="checkbox"/> Project Started and Underway	Anticipated Completion Date:
<input type="checkbox"/> Project Budgeted	Anticipated Start Date:
<input type="checkbox"/> Project on CIP	CIP Project Number:
<input checked="" type="checkbox"/> Project Delayed	Please Explain Below.
<input type="checkbox"/> Project Planned but not Budgeted	Plan Name and Page:
<input type="checkbox"/> Project Canceled	Please explain below.

---

**Project Progress Updates (Use additional pages as necessary):**

Accomplishments over the last two years: In the last, two years the city has had multiple incidents that have required sheltering to some degree. Management direction has steered towards coordinating with local hotels to manage the sheltering needs when demand is low. Shelters require city costs for staffing, supplies, coordination, and wrap around services; ROI often concludes that providing hotel vouchers is more cost efficient over shelter activation. In late 2018/2019, COT EM worked with the Red Cross to evaluate all shelter locations within the City including: Margaret Carpenter Rec. Center, Trailwinds Rec. Center, Thornton Community Center, and the Active Adult Center. Shelter layouts were developed for all locations and capability assessments. The city is still working on approvals for an IGA with the Red Cross.

Obstacles, Problems, or Delays: No

Is the project still relevant? If not, please explain: Yes

Should the project be modified or eliminated? Yes, this project should be modified. See previous comments as to why.

Other Comments:

# 2017 Thornton, Federal Heights, and Northglenn Hazard Mitigation Plan

## Mitigation Action Guide 2020 Progress Report Form

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### Please complete one Form for each Mitigation Action Guide (MAG):

Project Name: Emergency Operations Center (EOC) Development Project

MAG Number: TH29

Review Date: 12/23/20

Reviewer Name: Ryan Doyle

Thornton Department: Management Services – Risk Management

---

### Project Status:

<input type="checkbox"/> Project Completed	Completion Date:
<input checked="" type="checkbox"/> Project Started and Underway	Anticipated Completion Date:
<input type="checkbox"/> Project Budgeted	Anticipated Start Date:
<input type="checkbox"/> Project on CIP	CIP Project Number:
<input type="checkbox"/> Project Delayed	Please Explain Below.
<input type="checkbox"/> Project Planned but not Budgeted	Plan Name and Page:
<input type="checkbox"/> Project Canceled	Please explain below.

---

### Project Progress Updates (Use additional pages as necessary):

Accomplishments over the last two years: In 2018, funds were approved for EOC improvements however the new City Manager put the purchase of any EOC improvements on hold. He wanted us to evaluate the use of the City Hall Training Rm instead for the EOC. After months of evaluation and discussion, it was determined that that location was not viable as an EOC and thus the purchase of any supplies was delayed. However prior to the end of the year the EM was able to replace previous old televisions with wall mounted televisions, purchased approximately 10 laptops, 2 mobile projectors and printers, radios, new vests, and some other EOC supplies. Due to the delay in the project a major renovation was not possible however equipment was improved and capability was enhanced using the funds.

Obstacles, Problems, or Delays: Direction from management delayed the full use of the allotted \$45k for the EOC.

Is the project still relevant? If not, please explain: Yes

Should the project be modified or eliminated? Potentially modified but not eliminated. Project should be rewritten to provide a clear capability level to be reached.

Other Comments:

# 2017 Thornton, Federal Heights, and Northglenn Hazard Mitigation Plan

## Mitigation Action Guide 2020 Progress Report Form

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**Please complete one Form for each Mitigation Action Guide (MAG):**

Project Name: Evaluate Technology Backup Resources

MAG Number: TH30

Review Date: 11/30/2020

Reviewer Name: Scott Tekavec

Thornton Department: Management Services/Information Technology

---

**Project Status:**

Project Completed

Completion Date:

Project Started and Underway

Anticipated Completion Date: Ongoing

Project Budgeted

Anticipated Start Date:

Project on CIP

CIP Project Number:

Project Delayed

Please Explain Below.

Project Planned but not Budgeted

Plan Name and Page:

Project Canceled

Please explain below.

---

**Project Progress Updates (Use additional pages as necessary):**

Accomplishments over the last two years: Review of existing systems. Replacement on on premise backup system in 2020 and addition of Cloud backup in 2021

Obstacles, Problems, or Delays: N/A

Is the project still relevant? If not, please explain: Project is relevant and ongoing.

Should the project be modified or eliminated? No

Other Comments:

# 2017 Thornton, Federal Heights, and Northglenn Hazard Mitigation Plan

## Mitigation Action Guide 2020 Progress Report Form

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**Please complete one Form for each Mitigation Action Guide (MAG):**

Project Name: Evaluate Standards and Specs for City Infrastructure

MAG Number: TH31

Review Date: November 23, 2020

Reviewer Name: Sean Saddler

Thornton Department: Contracts & Purchasing

---

**Project Status:**

<input type="checkbox"/> Project Completed	Completion Date: N/A
<input type="checkbox"/> Project Started and Underway	Anticipated Completion Date: N/A
<input type="checkbox"/> Project Budgeted	Anticipated Start Date: N/A
<input type="checkbox"/> Project on CIP	CIP Project Number: N/A
<input type="checkbox"/> Project Delayed	Please Explain Below.
<input checked="" type="checkbox"/> Project Planned but not Budgeted	Plan Name and Page: N/A
<input type="checkbox"/> Project Canceled	Please explain below.

---

**Project Progress Updates (Use additional pages as necessary):**

Accomplishments over the last two years: None

Obstacles, Problems, or Delays: This project has not been budgeted

Is the project still relevant? If not, please explain: Yes

Should the project be modified or eliminated? No

Other Comments: This should be a joint project between Contracts and Infrastructure Engineering. The City Development Engineering team may also need input. This substantial project requires hiring a consultant to review/develop the many different specifications.



# 2017 Thornton, Federal Heights, and Northglenn Hazard Mitigation Plan

## Mitigation Action Guide 2020 Progress Report Form

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**Please complete one Form for each Mitigation Action Guide (MAG):**

Project Name: (TH32) Evaluate lift stations exposure to flood risk

MAG Number: TH32

Review Date: 12/7/2020

Reviewer Name: Jason Pierce

Thornton Department: Infrastructure

---

**Project Status:**

<input type="checkbox"/> Project Completed	Completion Date:
<input type="checkbox"/> Project Started and Underway	Anticipated Completion Date:
<input type="checkbox"/> Project Budgeted	Anticipated Start Date:
<input type="checkbox"/> Project on CIP	CIP Project Number:
<input checked="" type="checkbox"/> Project Delayed	Please Explain Below.
<input type="checkbox"/> Project Planned but not Budgeted	Plan Name and Page:
<input type="checkbox"/> Project Canceled	Please explain below.

---

**Project Progress Updates (Use additional pages as necessary):**

Accomplishments over the last two years: no progress

Obstacles, Problems, or Delays: This has not been completed due to other priorities.

Is the project still relevant? If not, please explain: yes

Should the project be modified or eliminated? no

Other Comments:

# 2017 Thornton, Federal Heights, and Northglenn Hazard Mitigation Plan

## Mitigation Action Guide 2020 Progress Report Form

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**Please complete one Form for each Mitigation Action Guide (MAG):**

Project Name: (TH33) Evaluate sewer/water crossings at streams

MAG Number: TH33

Review Date: 12/7/2020

Reviewer Name: Jason Pierce

Thornton Department: Infrastructure

---

**Project Status:**

Project Completed

Completion Date:

Project Started and Underway

Anticipated Completion Date:

Project Budgeted

Anticipated Start Date:

Project on CIP

CIP Project Number:

Project Delayed

Please Explain Below.

Project Planned but not Budgeted

Plan Name and Page:

Project Canceled

Please explain below.

---

**Project Progress Updates (Use additional pages as necessary):**

Accomplishments over the last two years: No progress.

Obstacles, Problems, or Delays: This project has not been completed due to other priorities.

Is the project still relevant? If not, please explain: yes

Should the project be modified or eliminated? no

Other Comments:

# 2017 Thornton, Federal Heights, and Northglenn Hazard Mitigation Plan

## Mitigation Action Guide 2020 Progress Report Form

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**Please complete one Form for each Mitigation Action Guide (MAG):**

Project Name: Expand and Improve Hazard Education for Seniors

MAG Number: TH34

Review Date: December 7, 2020

Reviewer Name: Lisa Ranalli

Thornton Department: Parks, Recreation and Community Programs

---

**Project Status:**

<input type="checkbox"/> Project Completed	Completion Date:
<input type="checkbox"/> Project Started and Underway	Anticipated Completion Date:
<input type="checkbox"/> Project Budgeted	Anticipated Start Date:
<input type="checkbox"/> Project on CIP	CIP Project Number:
<input checked="" type="checkbox"/> Project Delayed	Please Explain Below.
<input type="checkbox"/> Project Planned but not Budgeted	Plan Name and Page:
<input type="checkbox"/> Project Canceled	Please explain below.

---

**Project Progress Updates (Use additional pages as necessary):**

Accomplishments over the last two years: Currently in 2020 we are dealing with Covid, we have taken every precaution to ensure the safety of our older adult patrons. We have closed facilities, minimized staff interaction, and created safe building with proper cleaning procedures and PPE.

Obstacles, Problems, or Delays:

Is the project still relevant? If not, please explain: yes anytime there is a potential hazard from Pandemics to fires, it is important to maintain good communication that educates people.

Should the project be modified or eliminated?

Other Comments:

# 2017 Thornton, Federal Heights, and Northglenn Hazard Mitigation Plan

## Mitigation Action Guide 2020 Progress Report Form

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**Please complete one Form for each Mitigation Action Guide (MAG):**

Project Name: Expand the CodeRED Program

MAG Number: TH35

Review Date: 12/23/20

Reviewer Name: Ryan Doyle

Thornton Department: Management Services – Risk Management

---

**Project Status:**

<input type="checkbox"/> Project Completed	Completion Date:
<input checked="" type="checkbox"/> Project Started and Underway	Anticipated Completion Date:
<input type="checkbox"/> Project Budgeted	Anticipated Start Date:
<input type="checkbox"/> Project on CIP	CIP Project Number:
<input type="checkbox"/> Project Delayed	Please Explain Below.
<input type="checkbox"/> Project Planned but not Budgeted	Plan Name and Page:
<input type="checkbox"/> Project Canceled	Please explain below.

---

**Project Progress Updates (Use additional pages as necessary):**

Accomplishments over the last two years: In 2019, the City was approved as a IPAWS Alerting Authority which allows the city access to use the FEMA IPAWS system for mass notification that can be coordinated through IPAWS. This is a major enhancement in our system as residents don't need to voluntarily sign-in to receive alerts when the system is used. So we'll be able to message to residents, vacationers, and commuters during an emergency. The additional add-ons to CodeRED were not purchased but may be evaluated for future purchase. The major goal next is to institute regular (at least annual) testing of the CodeRED and IPAWS System.

Obstacles, Problems, or Delays: Budget funding.

Is the project still relevant? If not, please explain: Yes

Should the project be modified or eliminated? Yes should be modified to meet a program development goal with a defined end goal.

Other Comments:

# 2017 Thornton, Federal Heights, and Northglenn Hazard Mitigation Plan

## Mitigation Action Guide 2020 Progress Report Form

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**Please complete one Form for each Mitigation Action Guide (MAG):**

Project Name: Fire Code Updates

MAG Number: TH36

Review Date: 12/1/2020

Reviewer Name: Stephen Kelley

Thornton Department: Fire Department

---

**Project Status:**

<input checked="" type="checkbox"/> Project Completed	Completion Date: 2019
<input type="checkbox"/> Project Started and Underway	Anticipated Completion Date:
<input type="checkbox"/> Project Budgeted	Anticipated Start Date:
<input type="checkbox"/> Project on CIP	CIP Project Number:
<input type="checkbox"/> Project Delayed	Please Explain Below.
<input type="checkbox"/> Project Planned but not Budgeted	Plan Name and Page:
<input type="checkbox"/> Project Canceled	Please explain below.

---

**Project Progress Updates (Use additional pages as necessary):**

Accomplishments over the last two years: The Fire Prevention division has implemented and adopted the 2018 International Fire Code.

Obstacles, Problems, or Delays: None.

Is the project still relevant? If not, please explain: Yes, this project is still relevant.

Should the project be modified or eliminated? No, this project should not be modified or eliminated.

Other Comments: N/A

# 2017 Thornton, Federal Heights, and Northglenn Hazard Mitigation Plan

## Mitigation Action Guide 2020 Progress Report Form

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**Please complete one Form for each Mitigation Action Guide (MAG):**

Project Name: Fire Station Building Maintenance

MAG Number: TH37

Review Date: December 4<sup>th</sup>, 2020

Reviewer Name: Stephen Kelley

Thornton Department: Fire Department

---

**Project Status:**

<input type="checkbox"/> Project Completed	Completion Date:
<input checked="" type="checkbox"/> Project Started and Underway	Anticipated Completion Date: Ongoing
<input type="checkbox"/> Project Budgeted	Anticipated Start Date:
<input type="checkbox"/> Project on CIP	CIP Project Number:
<input type="checkbox"/> Project Delayed	Please Explain Below.
<input type="checkbox"/> Project Planned but not Budgeted	Plan Name and Page:
<input type="checkbox"/> Project Canceled	Please explain below.

---

**Project Progress Updates (Use additional pages as necessary):**

Accomplishments over the last two years: Continuing support from building maintenance to maintain facilities and generators. Captains have been assigned to all six fire stations.

Obstacles, Problems, or Delays: Continuing to formalize documentation of specific facilities and project needs, will work towards implementing in the next calendar year.

Is the project still relevant? If not, please explain: Yes, this project is still relevant.

Should the project be modified or eliminated? N/A

Other Comments:

# 2017 Thornton, Federal Heights, and Northglenn Hazard Mitigation Plan

## Mitigation Action Guide 2020 Progress Report Form

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**Please complete one Form for each Mitigation Action Guide (MAG):**

Project Name: Fire Station Emergency Procedures

MAG Number: TH38

Review Date: December 4<sup>th</sup>, 2020

Reviewer Name: Stephen Kelley

Thornton Department: Fire Department

---

**Project Status:**

<input type="checkbox"/> Project Completed	Completion Date:
<input type="checkbox"/> Project Started and Underway	Anticipated Completion Date:
<input type="checkbox"/> Project Budgeted	Anticipated Start Date:
<input type="checkbox"/> Project on CIP	CIP Project Number:
<input type="checkbox"/> Project Delayed	Please Explain Below.
<input checked="" type="checkbox"/> Project Planned but not Budgeted	Plan Name and Page:
<input type="checkbox"/> Project Canceled	Please explain below.

---

**Project Progress Updates (Use additional pages as necessary):**

Accomplishments over the last two years: Continued work on Emergency Operations Plan, Tabletop exercises, and Training Plans.

Obstacles, Problems, or Delays: Continued work needs to be done to complete SOPs related to post-disaster assessment and functionality. This work continues with Emergency Management and internal Fire Department working groups.

Is the project still relevant? If not, please explain: Yes, this project is still relevant.

Should the project be modified or eliminated? No, this project should not be modified or eliminated.

Other Comments: N/A

# 2017 Thornton, Federal Heights, and Northglenn Hazard Mitigation Plan

## Mitigation Action Guide 2020 Progress Report Form

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**Please complete one Form for each Mitigation Action Guide (MAG):**

Project Name: (TH39) Flood Action Plan for Wes Brown Water Treatment Plant

MAG Number: TH39

Review Date: 1/25/2021

Reviewer Name: Jim Kaiser

Thornton Department: Infrastructure

---

**Project Status:**

<input type="checkbox"/> Project Completed	Completion Date:
<input type="checkbox"/> Project Started and Underway	Anticipated Completion Date:
<input type="checkbox"/> Project Budgeted	Anticipated Start Date:
<input type="checkbox"/> Project on CIP	CIP Project Number:
<input type="checkbox"/> Project Delayed	Please Explain Below.
<input type="checkbox"/> Project Planned but not Budgeted	Plan Name and Page:
<input checked="" type="checkbox"/> Project Canceled	Please explain below.

---

**Project Progress Updates (Use additional pages as necessary):**

Accomplishments over the last two years: Lower Hoffman drainageway improvements removed the Wes Brown WTP from the Zone A and Shaded Zone X floodplains.

Obstacles, Problems, or Delays:.

Is the project still relevant? If not, please explain: No. LOMR 20-08-0251P validates the efficacy of the Lower Hoffman Drainageway improvements completed in 2019.

Should the project be modified or eliminated? Yes

Other Comments:



# 2017 Thornton, Federal Heights, and Northglenn Hazard Mitigation Plan

## Mitigation Action Guide 2020 Progress Report Form

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### Please complete one Form for each Mitigation Action Guide (MAG):

Project Name: (TH40) Loss Prevention Project – Regulation Updates – Flood Notification System

MAG Number: TH40

Review Date: 1/25/2021

Reviewer Name: Jim Kaiser

Thornton Department: Infrastructure

---

### Project Status:

Project Completed

Completion Date:

Project Started and Underway

Anticipated Completion Date:

Project Budgeted

Anticipated Start Date:

Project on CIP

CIP Project Number:

Project Delayed

Please Explain Below.

Project Planned but not Budgeted

Plan Name and Page:

Project Canceled

Please explain below.

---

### Project Progress Updates (Use additional pages as necessary):

Accomplishments over the last two years: Working on updates to Floodplain Regulations in the City Code.

Obstacles, Problems, or Delays: This has been delayed due to other priorities.

Is the project still relevant? If not, please explain: yes

Should the project be modified or eliminated? no

Other Comments:

# 2017 Thornton, Federal Heights, and Northglenn Hazard Mitigation Plan

## Mitigation Action Guide 2020 Progress Report Form

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**Please complete one Form for each Mitigation Action Guide (MAG):**

Project Name: (TH41) Formulate IGAs with Schools for Inoculation sites

MAG Number: TH41

Review Date: 2/24/2021

Reviewer Name: Ryan Doyle

Thornton Department: Management Services – Risk Management

---

**Project Status:**

<input type="checkbox"/> Project Completed	Completion Date:
<input checked="" type="checkbox"/> Project Started and Underway	Anticipated Completion Date: End of Covid 19.
<input type="checkbox"/> Project Budgeted	Anticipated Start Date:
<input type="checkbox"/> Project on CIP	CIP Project Number:
<input type="checkbox"/> Project Delayed	Please Explain Below.
<input type="checkbox"/> Project Planned but not Budgeted	Plan Name and Page:
<input type="checkbox"/> Project Canceled	Please explain below.

---

**Project Progress Updates (Use additional pages as necessary):**

Accomplishments over the last two years: Due to the COVID-19 Pandemic, previous plans for Points of Dispensing (PODs) were evaluated and augmented to meet the current needs of an active disaster. As such other planning locations in coordination with local partners were established and are actively inoculated members of the public on a weekly basis. The sites have required flexible planning, staffing, training, and the integration of public participants. These operations are supported by a POD Plan and will be evaluated throughout operations for improvements and efficiency upgrades. As such, we believe once this incident is over we will have met the intent of this MAG and will have established plans, partnerships, experienced staff, trainings, and resources to better replicate these operations in the future.

Obstacles, Problems, or Delays:

Is the project still relevant? If not, please explain: yes

Should the project be modified or eliminated? no

Other Comments:

# 2017 Thornton, Federal Heights, and Northglenn Hazard Mitigation Plan

## Mitigation Action Guide 2020 Progress Report Form

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**Please complete one Form for each Mitigation Action Guide (MAG):**

Project Name: (TH43) Gravel Lakes Rip Rap Program

MAG Number: TH43

Review Date: 12/7/2020

Reviewer Name: Jason Pierce

Thornton Department: Infrastructure

---

**Project Status:**

Project Completed

Completion Date:

Project Started and Underway

Anticipated Completion Date: Yearly Program

Project Budgeted

Anticipated Start Date:

Project on CIP

CIP Project Number:

Project Delayed

Please Explain Below.

Project Planned but not Budgeted

Plan Name and Page:

Project Canceled

Please explain below.

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**Project Progress Updates (Use additional pages as necessary):**

Accomplishments over the last two years:

Obstacles, Problems, or Delays:

Is the project still relevant? If not, please explain:

Should the project be modified or eliminated?

Other Comments:

# 2017 Thornton, Federal Heights, and Northglenn Hazard Mitigation Plan

## Mitigation Action Guide 2020 Progress Report Form

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**Please complete one Form for each Mitigation Action Guide (MAG):**

Project Name: Hazard Mitigation in Comprehensive Planning and Other City Plans

MAG Number: TH44

Review Date: November 30, 2020

Reviewer Name: Martin Postma

Thornton Department: City Development / Policy Planning

---

**Project Status:**

<input checked="" type="checkbox"/> Project Completed	Completion Date: July 15, 2020 Thornton Comprehensive Plan
<input checked="" type="checkbox"/> Project Started and Underway	Anticipated Completion Date: Ongoing
<input type="checkbox"/> Project Budgeted	Anticipated Start Date:
<input type="checkbox"/> Project on CIP	CIP Project Number:
<input type="checkbox"/> Project Delayed	Please Explain Below.
<input type="checkbox"/> Project Planned but not Budgeted	Plan Name and Page:
<input type="checkbox"/> Project Canceled	Please explain below.

---

**Project Progress Updates (Use additional pages as necessary):**

Accomplishments over the last two years: Completion of 2020 Thornton Comprehensive Plan, Completion of Thornton Boomer Bond Assessment

Obstacles, Problems, or Delays:

Is the project still relevant? If not, please explain: Yes

Should the project be modified or eliminated? No

Other Comments: Hazard Mitigation should continue to be incorporated into future planning processes, to the extent possible.

# 2017 Thornton, Federal Heights, and Northglenn Hazard Mitigation Plan

## Mitigation Action Guide 2020 Progress Report Form

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**Please complete one Form for each Mitigation Action Guide (MAG):**

Project Name: (TH45) Hoffman Drainage

MAG Number: TH45

Review Date: 1/25/2021

Reviewer Name: Jim Kaiser

Thornton Department: Infrastructure

---

**Project Status:**

<input type="checkbox"/> Project Completed	Completion Date:
<input checked="" type="checkbox"/> Project Started and Underway	Anticipated Completion Date: 2021
<input type="checkbox"/> Project Budgeted	Anticipated Start Date:
<input checked="" type="checkbox"/> Project on CIP	CIP Project Number: 19-244
<input type="checkbox"/> Project Delayed	Please Explain Below.
<input type="checkbox"/> Project Planned but not Budgeted	Plan Name and Page:
<input type="checkbox"/> Project Canceled	Please explain below.

---

**Project Progress Updates (Use additional pages as necessary):**

Accomplishments over the last two years: Design is at 95%, construction to begin 2021

Obstacles, Problems, or Delays:

Is the project still relevant? If not, please explain: yes

Should the project be modified or eliminated? no

Other Comments:

# 2017 Thornton, Federal Heights, and Northglenn Hazard Mitigation Plan

## Mitigation Action Guide 2020 Progress Report Form

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### Please complete one Form for each Mitigation Action Guide (MAG):

Project Name: Identify local organizations that can assist with post-disaster needs

MAG Number: TH46

Review Date: 1/12/21

Reviewer Name: Ryan Doyle

Thornton Department: Management Services – Risk Management

---

### Project Status:

<input type="checkbox"/> Project Completed	Completion Date:
<input type="checkbox"/> Project Started and Underway	Anticipated Completion Date:
<input type="checkbox"/> Project Budgeted	Anticipated Start Date:
<input type="checkbox"/> Project on CIP	CIP Project Number:
<input checked="" type="checkbox"/> Project Delayed	Please Explain Below.
<input type="checkbox"/> Project Planned but not Budgeted	Plan Name and Page:
<input type="checkbox"/> Project Canceled	Please explain below.

---

### Project Progress Updates (Use additional pages as necessary):

Accomplishments over the last two years: Coordination with local stakeholders is an annual process. In the last two years we've coordinated with North Suburban Hospital, Vibra Hospital, Denver Premium Outlets, and a number of local hotels, all which play key roles in preparedness, response, recovery and mitigation. We continue to work building relationships with local organizations on a regular basis. We've also developed an Emergency Planning Committee which currently includes city department's key in a response but will continue to grow and include external community organizations and partnerships. I believe without greater explanation as to what types of organizations and facilities to identify and build relationships with, that this MAG should either be edited to be more specific or deleted.

Obstacles, Problems, or Delays:

Is the project still relevant? If not, please explain: Yes

Should the project be modified or eliminated? Yes modified to be more specific or eliminated.

Other Comments:

Example - Identify facilities that could act as Evacuation Points, Temporary Emergency Shelters, and Incident Command Posts.

# 2017 Thornton, Federal Heights, and Northglenn Hazard Mitigation Plan

## Mitigation Action Guide 2020 Progress Report Form

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**Please complete one Form for each Mitigation Action Guide (MAG):**

Project Name: (TH47) Implement MHFD Projects Identified

MAG Number: TH47

Review Date: 1/25/2021 Reviewer Name: Jim Kaiser

Thornton Department: Infrastructure

---

**Project Status:**

<input type="checkbox"/> Project Completed	Completion Date:
<input checked="" type="checkbox"/> Project Started and Underway	Anticipated Completion Date: ongoing
<input type="checkbox"/> Project Budgeted	Anticipated Start Date:
<input type="checkbox"/> Project on CIP	CIP Project Number:
<input type="checkbox"/> Project Delayed	Please Explain Below.
<input type="checkbox"/> Project Planned but not Budgeted	Plan Name and Page:
<input type="checkbox"/> Project Canceled	Please explain below.

---

**Project Progress Updates (Use additional pages as necessary):**

Accomplishments over the last two years: Masterplan update compiled for Basin 4100, updates underway for Niver Creek, Woodglen, and Brantner Gulch. Future updates planned for Todd Creek (2021) and Big Dry Creek Tributaries (2023).

Obstacles, Problems, or Delays:

Is the project still relevant? If not, please explain: yes

Should the project be modified or eliminated? no

Other Comments:

# 2017 Thornton, Federal Heights, and Northglenn Hazard Mitigation Plan

## Mitigation Action Guide 2020 Progress Report Form

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**Please complete one Form for each Mitigation Action Guide (MAG):**

Project Name: (TH48) Incorporate resiliency measures in Utility Master Plan

MAG Number: TH48

Review Date: 01/28/2021

Reviewer Name: Stacy Roberts

Thornton Department: Utilities Operations

---

**Project Status:**

<input checked="" type="checkbox"/> Project Completed	Completion Date:
<input type="checkbox"/> Project Started and Underway	Anticipated Completion Date: 2021
<input type="checkbox"/> Project Budgeted	Anticipated Start Date: Nov 2017
<input type="checkbox"/> Project on CIP	CIP Project Number: 17-467/17-468
<input type="checkbox"/> Project Delayed	Please Explain Below.
<input type="checkbox"/> Project Planned but not Budgeted	Plan Name and Page:
<input type="checkbox"/> Project Canceled	Please explain below.

---

**Project Progress Updates (Use additional pages as necessary):**

Accomplishments over the last two years: The 2020 Utility Master Plan (UMP) is complete. The UMP will be used as a guideline for prioritizing future CIP projects.

Obstacles, Problems, or Delays:

Is the project still relevant? If not, please explain: yes

Should the project be modified or eliminated? no

Other Comments: This project will continue to be updated every 8-10 years.



# 2017 Thornton, Federal Heights, and Northglenn Hazard Mitigation Plan

## Mitigation Action Guide 2020 Progress Report Form

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**Please complete one Form for each Mitigation Action Guide (MAG):**

Project Name: (TH49) Increase fuel, salt, and sand storage for winter storms

MAG Number: TH49

Review Date: 12/2/2020

Reviewer Name: Todd Rullo

Thornton Department: Street Operations

---

**Project Status:**

<input checked="" type="checkbox"/> Project Completed	Completion Date: 2018
<input type="checkbox"/> Project Started and Underway	Anticipated Completion Date:
<input type="checkbox"/> Project Budgeted	Anticipated Start Date:
<input type="checkbox"/> Project on CIP	CIP Project Number:
<input type="checkbox"/> Project Delayed	Please Explain Below.
<input type="checkbox"/> Project Planned but not Budgeted	Plan Name and Page:
<input type="checkbox"/> Project Canceled	Please explain below.

---

**Project Progress Updates (Use additional pages as necessary):**

Accomplishments over the last two years:

Obstacles, Problems, or Delays:

Is the project still relevant? If not, please explain:

Should the project be modified or eliminated?

Other Comments:

# 2017 Thornton, Federal Heights, and Northglenn Hazard Mitigation Plan

## Mitigation Action Guide 2020 Progress Report Form

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### Please complete one Form for each Mitigation Action Guide (MAG):

Project Name: Increase Staffing for EM Projects

MAG Number: TH50

Review Date: 1/12/21

Reviewer Name: Ryan Doyle

Thornton Department: Management Services – Risk Management

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### Project Status:

<input checked="" type="checkbox"/> Project Completed	Completion Date: 1/1/2019
<input type="checkbox"/> Project Started and Underway	Anticipated Completion Date:
<input type="checkbox"/> Project Budgeted	Anticipated Start Date:
<input type="checkbox"/> Project on CIP	CIP Project Number:
<input type="checkbox"/> Project Delayed	Please Explain Below.
<input type="checkbox"/> Project Planned but not Budgeted	Plan Name and Page:
<input type="checkbox"/> Project Canceled	Please explain below.

---

### Project Progress Updates (Use additional pages as necessary):

Accomplishments over the last two years:

In January 2019, a new position for City Safety Administrator was hired and onboarded which allowed the current Emergency Manager to devote 100% of their time to EM related projects and initiatives. This was a big milestone for the city who hadn't had a 100% dedicated EM position since the late 1990s. The development of an EM Internship Program is still occurring but due to priorities with the COVID19 response has been put on hold.

Obstacles, Problems, or Delays: Budget approval and hiring of the Safety Administrator were the delays in this project historically.

Is the project still relevant? If not, please explain: Yes

Should the project be modified or eliminated? Yes

Other Comments:

# 2017 Thornton, Federal Heights, and Northglenn Hazard Mitigation Plan

## Mitigation Action Guide 2020 Progress Report Form

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### Please complete one Form for each Mitigation Action Guide (MAG):

Project Name: Investigating Citywide Fiber Optics

MAG Number: TH51

Review Date: 11/30/2020

Reviewer Name: Scott Tekavec

Thornton Department: Management Services/Information Technology

---

### Project Status:

Project Completed

Completion Date:

Project Started and Underway

Anticipated Completion Date: Current phase  
Q2 2021

Project Budgeted

Anticipated Start Date:

Project on CIP

CIP Project Number:

Project Delayed

Please Explain Below.

Project Planned but not Budgeted

Plan Name and Page:

Project Canceled

Please explain below.

---

### Project Progress Updates (Use additional pages as necessary):

Accomplishments over the last two years: Installed nearly 22 miles of fiber optic cable in a loop fashion inside City limits.

Obstacles, Problems, or Delays: Budget and project acceptance

Is the project still relevant? If not, please explain: This is a very relevant project key to the future successes of the City.

Should the project be modified or eliminated? No, this project should be expanded to include future North Thornton facilities.

Other Comments: This also relates to the Fiber Master Plan and Enhanced Broadband Services. Request for Information is expected back from vendors in the community in late 2020.

# 2017 Thornton, Federal Heights, and Northglenn Hazard Mitigation Plan

## Mitigation Action Guide 2020 Progress Report Form

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**Please complete one Form for each Mitigation Action Guide (MAG):**

Project Name: (TH52) Lakeview Estates Drainage Corrections

MAG Number: TH52

Review Date: 1/25/2021

Reviewer Name: Jim Kaiser

Thornton Department: Infrastructure

---

**Project Status:**

<input checked="" type="checkbox"/> Project Partially Completed	Completion Date: 2017
<input type="checkbox"/> Project Started and Underway	Anticipated Completion Date:
<input type="checkbox"/> Project Budgeted	Anticipated Start Date:
<input type="checkbox"/> Project on CIP	CIP Project Number:
<input type="checkbox"/> Project Delayed	Please Explain Below.
<input checked="" type="checkbox"/> Project Planned but not Budgeted	Plan Name and Page:
<input type="checkbox"/> Project Canceled	Please explain below.

---

**Project Progress Updates (Use additional pages as necessary):**

Accomplishments over the last two years:

Obstacles, Problems, or Delays:

Is the project still relevant? Yes If not, please explain: Initial improvements completed in 2017.

Additional modifications identified for in-house design, but not yet funded in Stormwater Utility small projects CIP.

Should the project be modified or eliminated?

Other Comments:

# 2017 Thornton, Federal Heights, and Northglenn Hazard Mitigation Plan

## Mitigation Action Guide 2020 Progress Report Form

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**Please complete one Form for each Mitigation Action Guide (MAG):**

Project Name: Lightning Detectors

MAG Number: TH53

Review Date: 1/12/21

Reviewer Name: Ryan Doyle

Thornton Department: Management Services – Risk Management

---

**Project Status:**

<input type="checkbox"/> Project Completed	Completion Date:
<input type="checkbox"/> Project Started and Underway	Anticipated Completion Date:
<input type="checkbox"/> Project Budgeted	Anticipated Start Date:
<input type="checkbox"/> Project on CIP	CIP Project Number:
<input checked="" type="checkbox"/> Project Delayed	Please Explain Below.
<input type="checkbox"/> Project Planned but not Budgeted	Plan Name and Page:
<input type="checkbox"/> Project Canceled	Please explain below.

---

**Project Progress Updates (Use additional pages as necessary):**

Accomplishments over the last two years: No additional accomplishments were made in respects to this project.

Obstacles, Problems, or Delays: Currently a lack of political will and perceived need for this system exists.

Is the project still relevant? If not, please explain: Yes

Should the project be modified or eliminated? No

Other Comments: We will continue to promote the installment of lightning detectors at all city sports fields and golf course. Lightning strike is a threat to Thornton and this program should still be included in future CIP projects.

# 2017 Thornton, Federal Heights, and Northglenn Hazard Mitigation Plan

## Mitigation Action Guide 2020 Progress Report Form

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**Please complete one Form for each Mitigation Action Guide (MAG):**

Project Name: Loss Prevention Project – Building Resiliency

MAG Number: TH54

Review Date: 2/24/21

Reviewer Name: Jim Bilyeu

Thornton Department: City Development – Building Division

---

**Project Status:**

<input checked="" type="checkbox"/> Project Completed	Completion Date:
<input type="checkbox"/> Project Started and Underway	Anticipated Completion Date:
<input type="checkbox"/> Project Budgeted	Anticipated Start Date:
<input type="checkbox"/> Project on CIP	CIP Project Number:
<input type="checkbox"/> Project Delayed	Please Explain Below.
<input type="checkbox"/> Project Planned but not Budgeted	Plan Name and Page:
<input type="checkbox"/> Project Canceled	Please explain below.

---

**Project Progress Updates (Use additional pages as necessary):**

Accomplishments over the last two years: Thornton updates its building codes and associated local amendments every three years. The most recent was the update to the 2018 codes, which was done in 2019.

Obstacles, Problems, or Delays: None

Is the project still relevant? If not, please explain: Yes

Should the project be modified or eliminated? No

Other Comments: Thornton plans to continue to make building code updates every three years.

# 2017 Thornton, Federal Heights, and Northglenn Hazard Mitigation Plan

## Mitigation Action Guide 2020 Progress Report Form

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**Please complete one Form for each Mitigation Action Guide (MAG):**

Project Name: (TH55) Niver Creek Tributary M

MAG Number: TH55

Review Date: 1/25/2021

Reviewer Name: Jim Kaiser

Thornton Department: Infrastructure

---

**Project Status:**

<input type="checkbox"/> Project Completed	Completion Date:
<input checked="" type="checkbox"/> Project Started and Underway	Anticipated Completion Date: 2022
<input type="checkbox"/> Project Budgeted	Anticipated Start Date:
<input type="checkbox"/> Project on CIP	CIP Project Number: 19-242
<input checked="" type="checkbox"/> Project Delayed	Please Explain Below.
<input type="checkbox"/> Project Planned but not Budgeted	Plan Name and Page:
<input type="checkbox"/> Project Canceled	Please explain below.

---

**Project Progress Updates (Use additional pages as necessary):**

Accomplishments over the last two years: Design underway with MHFD, construction anticipated to start 3Q 2021.

Obstacles, Problems, or Delays: Project stops at 92<sup>nd</sup> Avenue/Thornton Parkway. Areas to northwest will require a future CIP; not in the 5-year plan.

Is the project still relevant? If not, please explain: yes

Should the project be modified or eliminated? no

Other Comments:

# 2017 Thornton, Federal Heights, and Northglenn Hazard Mitigation Plan

## Mitigation Action Guide 2020 Progress Report Form

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**Please complete one Form for each Mitigation Action Guide (MAG):**

Project Name: Public Warning / Notification Project

MAG Number: TH56

Review Date: 1/12/21

Reviewer Name: Ryan Doyle

Thornton Department: Management Services – Risk Management

---

**Project Status:**

<input checked="" type="checkbox"/> Project Completed	Completion Date:
<input type="checkbox"/> Project Started and Underway	Anticipated Completion Date:
<input type="checkbox"/> Project Budgeted	Anticipated Start Date:
<input type="checkbox"/> Project on CIP	CIP Project Number:
<input type="checkbox"/> Project Delayed	Please Explain Below.
<input type="checkbox"/> Project Planned but not Budgeted	Plan Name and Page:
<input type="checkbox"/> Project Canceled	Please explain below.

---

**Project Progress Updates (Use additional pages as necessary):**

Accomplishments over the last two years: Project Completed with purchase of CodeRED in 2017.

Obstacles, Problems, or Delays:

Is the project still relevant? If not, please explain: Yes

Should the project be modified or eliminated? Either eliminated or modified to potentially improving annual testing and developing an emergency notification and strategic communications plan to support activation of the notification process.

Other Comments:



# 2017 Thornton, Federal Heights, and Northglenn Hazard Mitigation Plan

## Mitigation Action Guide 2020 Progress Report Form

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### Please complete one Form for each Mitigation Action Guide (MAG):

Project Name: Public Outreach Project

MAG Number: TH57

Review Date: 1/12/21

Reviewer Name: Ryan Doyle

Thornton Department: Management Services – Risk Management

---

### Project Status:

<input type="checkbox"/> Project Completed	Completion Date:
<input checked="" type="checkbox"/> Project Started and Underway	Anticipated Completion Date:
<input type="checkbox"/> Project Budgeted	Anticipated Start Date:
<input type="checkbox"/> Project on CIP	CIP Project Number:
<input checked="" type="checkbox"/> Project Delayed	Please Explain Below.
<input type="checkbox"/> Project Planned but not Budgeted	Plan Name and Page:
<input type="checkbox"/> Project Canceled	Please explain below.

---

### Project Progress Updates (Use additional pages as necessary):

Accomplishments over the last two years: Multiple different projects and programs have been developed to support public education and outreach, however a cohesive plan that provides annual deliverables and strategies for public education has not been developed.

Obstacles, Problems, or Delays: A large obstacle was the lack of time to devote to public education. However with the new full-time position and once COVID19 response slows, public education can be continued and expanded to become a much more foundational program within Emergency Management.

Is the project still relevant? If not, please explain: Yes

Should the project be modified or eliminated? Likely modified to include more concrete deliverables so that this project can be measured and completed.

Other Comments:

# 2017 Thornton, Federal Heights, and Northglenn Hazard Mitigation Plan

## Mitigation Action Guide 2020 Progress Report Form

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**Please complete one Form for each Mitigation Action Guide (MAG):**

Project Name: (TH58) Ozone Treatment at Wes Brown Treatment Plant

MAG Number: TH58

Review Date: 01/29/2021

Reviewer Name: Stacy Roberts

Thornton Department: Infrastructure

---

**Project Status:**

<input type="checkbox"/> Project Completed	Completion Date:
<input type="checkbox"/> Project Started and Underway	Anticipated Completion Date:
<input type="checkbox"/> Project Budgeted	Anticipated Start Date:
<input type="checkbox"/> Project on CIP	CIP Project Number:
<input checked="" type="checkbox"/> Project Delayed	Please Explain Below.
<input type="checkbox"/> Project Planned but not Budgeted	Plan Name and Page:
<input type="checkbox"/> Project Canceled	Please explain below.

---

**Project Progress Updates (Use additional pages as necessary):**

Accomplishments over the last two years:

Obstacles, Problems, or Delays: Currently Thornton is planning on treating Poudre River water at the Wes Brown WTP therefore taste and odor issues would be less and Ozone may not be needed. There is a possibility that this plan would be implemented in the future.

Is the project still relevant? If not, please explain:

Should the project be modified or eliminated?

Other Comments:

# 2017 Thornton, Federal Heights, and Northglenn Hazard Mitigation Plan

## Mitigation Action Guide 2020 Progress Report Form

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**Please complete one Form for each Mitigation Action Guide (MAG):**

Project Name: (TH59) Public Education on Snow Removal

MAG Number: TH59

Review Date: 12/2/2020

Reviewer Name: Todd Rullo

Thornton Department: Streets Operations

---

**Project Status:**

<input checked="" type="checkbox"/> Project Completed	Completion Date: 2018
<input type="checkbox"/> Project Started and Underway	Anticipated Completion Date:
<input type="checkbox"/> Project Budgeted	Anticipated Start Date:
<input type="checkbox"/> Project on CIP	CIP Project Number:
<input type="checkbox"/> Project Delayed	Please Explain Below.
<input type="checkbox"/> Project Planned but not Budgeted	Plan Name and Page:
<input type="checkbox"/> Project Canceled	Please explain below.

---

**Project Progress Updates (Use additional pages as necessary):**

Accomplishments over the last two years:

Obstacles, Problems, or Delays:

Is the project still relevant? If not, please explain:

Should the project be modified or eliminated?

Other Comments:

# 2017 Thornton, Federal Heights, and Northglenn Hazard Mitigation Plan

## Mitigation Action Guide 2020 Progress Report Form

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### Please complete one Form for each Mitigation Action Guide (MAG):

Project Name: Purchase Portable Cell Towers

MAG Number: TH60

Review Date: 1/12/21

Reviewer Name: Ryan Doyle

Thornton Department: Management Services – Risk Management

---

### Project Status:

<input type="checkbox"/> Project Completed	Completion Date:
<input type="checkbox"/> Project Started and Underway	Anticipated Completion Date:
<input type="checkbox"/> Project Budgeted	Anticipated Start Date:
<input type="checkbox"/> Project on CIP	CIP Project Number:
<input checked="" type="checkbox"/> Project Delayed	Please Explain Below.
<input type="checkbox"/> Project Planned but not Budgeted	Plan Name and Page:
<input type="checkbox"/> Project Canceled	Please explain below.

---

### Project Progress Updates (Use additional pages as necessary):

Accomplishments over the last two years: Currently not a perceived need by policy makers to it a CIP project. We do have vendors identified for portable cell boosters however proactive deployment of such a system has not been approved by leadership.

Obstacles, Problems, or Delays: Leadership approval.

Is the project still relevant? If not, please explain: Yes/No the city has a number of redundant communications mechanisms which can be deployed if all normal methods of communications fail. However there is a potential in a worst case scenario that even redundant communications may be impacted. These scenarios should be included in future exercises to test the functioning of redundant communication methods.

Should the project be modified or eliminated? Likely modified to be more clear and realistic.

I'm not sure the city purchasing cell towers is a realistic request considering other budget constraints.

Other Comments:

# 2017 Thornton, Federal Heights, and Northglenn Hazard Mitigation Plan

## Mitigation Action Guide 2020 Progress Report Form

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### Please complete one Form for each Mitigation Action Guide (MAG):

Project Name: (TH61) Reduce expansion of Emerald Ash Borer

MAG Number: TH61

Review Date: 11/23/2020

Reviewer Name: Cory Cyrus

Thornton Department: Community Services- Forestry

Phone and email: 303-255-7874 Cory.Cyrus@ThorntonCO.gov

---

### Project Status:

<input type="checkbox"/> Project Completed	Completion Date:
<input checked="" type="checkbox"/> Project Started and Underway	Anticipated Completion Date: on-going
<input checked="" type="checkbox"/> Project Budgeted	Anticipated Start Date: 2020 started
<input checked="" type="checkbox"/> Project on CIP	CIP Project Number: 561683-20 (20-494)
<input type="checkbox"/> Project Delayed	Please Explain Below.
<input type="checkbox"/> Project Planned but not Budgeted	Plan Name and Page:
<input type="checkbox"/> Project Canceled	Please explain below.

---

### Project Progress Updates (Use additional pages as necessary):

The forestry district maintenance plan has continued into districts 3, 4, and 5. Ongoing removal of poor condition ash trees that are more susceptible hosts to EAB. Contractor has treated 50 healthy good condition ash trees to help prevent infection.

#### Obstacles, Problems, or Delays:

Budget funding of staff and contracted services

#### Is the project still relevant? If not, please explain:

This project remains relevant due to the continued annual spread of EAB

#### Should the project be modified or eliminated?

This project should continue as planned to remove poor condition ash trees and replace with a diverse variety of trees to help mitigate the loss.

Other Comments:

# 2017 Thornton, Federal Heights, and Northglenn Hazard Mitigation Plan

## Mitigation Action Guide 2020 Progress Report Form

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**Please complete one Form for each Mitigation Action Guide (MAG):**

Project Name: Remote Work Capability

MAG Number: TH62

Review Date: 11/30/2020

Reviewer Name: Scott Tekavec

Thornton Department: Management Services/Information Technology

---

**Project Status:**

<input type="checkbox"/> Project Completed	Completion Date:
<input checked="" type="checkbox"/> Project Started and Underway	Anticipated Completion Date: Ongoing
<input type="checkbox"/> Project Budgeted	Anticipated Start Date:
<input type="checkbox"/> Project on CIP	CIP Project Number:
<input type="checkbox"/> Project Delayed	Please Explain Below.
<input type="checkbox"/> Project Planned but not Budgeted	Plan Name and Page:
<input type="checkbox"/> Project Canceled	Please explain below.

---

**Project Progress Updates (Use additional pages as necessary):**

Accomplishments over the last two years: COVID-19 thrust this into production as a need to working in 2020. Thornton Administrative Directive 2-51 Remote Work was written and signed by the City Manager.

Obstacles, Problems, or Delays: We will need to see how we return to the office after the COVID-19 experience.

Is the project still relevant? If not, please explain: Yes, this is very relevant.

Should the project be modified or eliminated? No.

Other Comments:

# 2017 Thornton, Federal Heights, and Northglenn Hazard Mitigation Plan

## Mitigation Action Guide 2020 Progress Report Form

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**Please complete one Form for each Mitigation Action Guide (MAG):**

Project Name: (TH63) Bring commercial buildings out of the floodway

MAG Number: TH63

Review Date: 1/25/2021

Reviewer Name: Jim Kaiser

Thornton Department: Infrastructure

---

**Project Status:**

<input type="checkbox"/> Project Completed	Completion Date:
<input type="checkbox"/> Project Started and Underway	Anticipated Completion Date:
<input type="checkbox"/> Project Budgeted	Anticipated Start Date:
<input type="checkbox"/> Project on CIP	CIP Project Number:
<input checked="" type="checkbox"/> Project Delayed	Please Explain Below.
<input type="checkbox"/> Project Planned but not Budgeted	Plan Name and Page:
<input type="checkbox"/> Project Canceled	Please explain below.

---

**Project Progress Updates (Use additional pages as necessary):**

Accomplishments over the last two years: No progress.

Obstacles, Problems, or Delays: Current City Code allows non-residential buildings to remain, even be built, on lots within the mapped floodplain; new construction in the floodway would be prohibited without a "no rise" certification.

Is the project still relevant? If not, please explain:

Should the project be modified or eliminated?

Other Comments:

# 2017 Thornton, Federal Heights, and Northglenn Hazard Mitigation Plan

## Mitigation Action Guide 2020 Progress Report Form

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**Please complete one Form for each Mitigation Action Guide (MAG):**

Project Name: (TH64) Repetitive loss structure identification

MAG Number: TH64

Review Date: 1/25/2025

Reviewer Name: Jim Kaiser

Thornton Department: Infrastructure

---

**Project Status:**

Project Completed

Completion Date:

Project Started and Underway

Anticipated Completion Date: mid 2021

Project Budgeted

Anticipated Start Date:

Project on CIP

CIP Project Number: 20-245A

Project Delayed

Please Explain Below.

Project Planned but not Budgeted

Plan Name and Page:

Project Canceled

Please explain below.

---

**Project Progress Updates (Use additional pages as necessary):**

Accomplishments over the last two years: Repetitive loss structure on Yucca Way, design underway to mitigate flooding hazard in this area.

Obstacles, Problems, or Delays:

Is the project still relevant? If not, please explain: yes

Should the project be modified or eliminated? no

Other Comments:



# 2017 Thornton, Federal Heights, and Northglenn Hazard Mitigation Plan

## Mitigation Action Guide 2020 Progress Report Form

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**Please complete one Form for each Mitigation Action Guide (MAG):**

Project Name: (TH65) Reservoir Spillway Project

MAG Number: TH65

Review Date: 12/7/2020

Reviewer Name: Jim Kaiser

Thornton Department: Infrastructure

---

**Project Status:**

<input checked="" type="checkbox"/> Project Completed	Completion Date: August, 2020
<input type="checkbox"/> Project Started and Underway	Anticipated Completion Date:
<input type="checkbox"/> Project Budgeted	Anticipated Start Date:
<input type="checkbox"/> Project on CIP	CIP Project Number:
<input type="checkbox"/> Project Delayed	Please Explain Below.
<input type="checkbox"/> Project Planned but not Budgeted	Plan Name and Page:
<input type="checkbox"/> Project Canceled	Please explain below.

---

**Project Progress Updates (Use additional pages as necessary):**

Accomplishments over the last two years: Using FEMA funding, the West Spratt Platte reservoirs were reconstructed with spillways. The new East Cooley reservoir was constructed with a spillway during initial commissioning.

Obstacles, Problems, or Delays:

Is the project still relevant? If not, please explain:

Should the project be modified or eliminated?

Other Comments:

# 2017 Thornton, Federal Heights, and Northglenn Hazard Mitigation Plan

## Mitigation Action Guide 2020 Progress Report Form

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**Please complete one Form for each Mitigation Action Guide (MAG):**

Project Name: (TH66) River/Stream Gauge Project

MAG Number: TH66

Review Date: 12/7/2020

Reviewer Name: Jason Pierce

Thornton Department: Infrastructure

---

**Project Status:**

<input checked="" type="checkbox"/> Project Completed	Completion Date:
<input type="checkbox"/> Project Started and Underway	Anticipated Completion Date:
<input type="checkbox"/> Project Budgeted	Anticipated Start Date:
<input type="checkbox"/> Project on CIP	CIP Project Number:
<input type="checkbox"/> Project Delayed	Please Explain Below.
<input type="checkbox"/> Project Planned but not Budgeted	Plan Name and Page:
<input type="checkbox"/> Project Canceled	Please explain below.

---

**Project Progress Updates (Use additional pages as necessary):**

Accomplishments over the last two years:

Obstacles, Problems, or Delays:

Is the project still relevant? If not, please explain:

Should the project be modified or eliminated?

Other Comments:

# 2017 Thornton, Federal Heights, and Northglenn Hazard Mitigation Plan

## Mitigation Action Guide 2020 Progress Report Form

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**Please complete one Form for each Mitigation Action Guide (MAG):**

Project Name: (TH67) School Tributary

MAG Number: TH67

Review Date: 1/25/2021

Reviewer Name: Jim Kaiser

Thornton Department: Infrastructure

---

**Project Status:**

<input type="checkbox"/> Project Completed	Completion Date:
<input checked="" type="checkbox"/> Project Started and Underway	Anticipated Completion Date:
<input type="checkbox"/> Project Budgeted	Anticipated Start Date:
<input type="checkbox"/> Project on CIP	CIP Project Number:
<input type="checkbox"/> Project Delayed	Please Explain Below.
<input type="checkbox"/> Project Planned but not Budgeted	Plan Name and Page:
<input type="checkbox"/> Project Canceled	Please explain below.

---

**Project Progress Updates (Use additional pages as necessary):**

Accomplishments over the last two years: The drainage pipeline between the Catalina Apartments and Monroe St has been completed.

Obstacles, Problems, or Delays: The remaining portion of the drainage system west of Monroe St is an unfunded project that will be prioritized by city staff and city council through future budgets and/or entitlement process for adjacent development.

Is the project still relevant? If not, please explain: yes

Should the project be modified or eliminated? no

Other Comments:

# 2017 Thornton, Federal Heights, and Northglenn Hazard Mitigation Plan

## Mitigation Action Guide 2020 Progress Report Form

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### Please complete one Form for each Mitigation Action Guide (MAG):

Project Name: Incorporate Age-Restricted Communities, Nursing Homes, and other senior care centers into planning processes

MAG Number: TH68

Review Date: November 30, 2020

Reviewer Name: Martin Postma

Thornton Department: City Development / Policy Planning

---

### Project Status:

<input checked="" type="checkbox"/> Project Completed	Completion Date: July 15, 2020.
<input type="checkbox"/> Project Started and Underway	Anticipated Completion Date: Ongoing
<input type="checkbox"/> Project Budgeted	Anticipated Start Date:
<input type="checkbox"/> Project on CIP	CIP Project Number:
<input type="checkbox"/> Project Delayed	Please Explain Below.
<input type="checkbox"/> Project Planned but not Budgeted	Plan Name and Page:
<input type="checkbox"/> Project Canceled	Please explain below.

---

### Project Progress Updates (Use additional pages as necessary):

Accomplishments over the last two years: The 2020 Thornton Comprehensive Plan process included targeted outreach to several senior living facilities in Thornton and incorporated input gathered from these events into the planning process. The Thornton Boomer Bond assessment also addressed the needs of senior living facilities and the process of developing the Boomer Bond included a representative of the Senior Hub.

Obstacles, Problems, or Delays: None

Is the project still relevant? If not, please explain: Project is relevant.

Should the project be modified or eliminated? No

Other Comments: Continued engagement with Thornton's senior population and senior living facilities should continue into future long range planning processes.

# 2017 Thornton, Federal Heights, and Northglenn Hazard Mitigation Plan

## Mitigation Action Guide 2020 Progress Report Form

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### Please complete one Form for each Mitigation Action Guide (MAG):

Project Name: Stockpiling Emergency Shelters

MAG Number: TH69

Review Date: 1/13/21

Reviewer Name: Ryan Doyle

Thornton Department: Management Services – Risk Management

---

### Project Status:

<input type="checkbox"/> Project Completed	Completion Date:
<input type="checkbox"/> Project Started and Underway	Anticipated Completion Date:
<input type="checkbox"/> Project Budgeted	Anticipated Start Date:
<input type="checkbox"/> Project on CIP	CIP Project Number:
<input checked="" type="checkbox"/> Project Delayed	Please Explain Below.
<input type="checkbox"/> Project Planned but not Budgeted	Plan Name and Page:
<input type="checkbox"/> Project Canceled	Please explain below.

---

### Project Progress Updates (Use additional pages as necessary):

Accomplishments over the last two years: A budget request was submitted in 2018, 2019, and 2020 for initially \$2500 up to \$40,000 to increase capacity at our primary shelter location for the city with the purchase of a storage container and supplies to support a 300 person overnight shelter at the Margaret Carpenter Recreation Center. The request was denied each year. Support exists with multiple departments that this is a defined need however the budget office does not consider this a priority for the city. EM has worked to build a stronger partnership with the Mile High Red Cross Chapter to audit all potential shelter locations within the City and is currently working to finalize an MOU with the organization for shelter support. In addition, the city has had multiple incidents in the last few years that have required supporting the sheltering of stranded residents and travelers. City policy makers have decided based on initial analysis that it is more cost effective and appropriate to provide transportation or vouchers to local hotels. A more formal analysis is needed to determine the cost of activating a city shelter and utilizing that as triggers for switching from hotel vouchers to activation of an overnight shelter. The city still needs to build resource capacity and training for capability to operate an overnight shelter. In addition MOUs with local hotels should be explored to develop standard pricing and reserving rooms for future predictable weather impacts. Currently the city has a mobile trailer with 75 bed capacity but that needs to be trained and exercised. An exercise was tentatively scheduled for August 2020, however the COVID19 Pandemic put those plans on hold.

Obstacles, Problems, or Delays: Budget approval.

Is the project still relevant? If not, please explain: Yes

Should the project be modified or eliminated? Modified. I believe this project should be modified to not only include supplies but other deliverables mentioned above: training, exercising, cost analysis, supplies, and MOUs.

Other Comments:

# 2017 Thornton, Federal Heights, and Northglenn Hazard Mitigation Plan

## Mitigation Action Guide 2020 Progress Report Form

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**Please complete one Form for each Mitigation Action Guide (MAG):**

Project Name: Stockpiling Fire Stations

MAG Number: TH70

Review Date: December 4<sup>th</sup>, 2020

Reviewer Name: Stephen Kelley

Thornton Department: Fire Department

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**Project Status:**

<input type="checkbox"/> Project Completed	Completion Date:
<input checked="" type="checkbox"/> Project Started and Underway	Anticipated Completion Date: Ongoing
<input type="checkbox"/> Project Budgeted	Anticipated Start Date:
<input type="checkbox"/> Project on CIP	CIP Project Number:
<input type="checkbox"/> Project Delayed	Please Explain Below.
<input type="checkbox"/> Project Planned but not Budgeted	Plan Name and Page:
<input type="checkbox"/> Project Canceled	Please explain below.

---

**Project Progress Updates (Use additional pages as necessary):**

Accomplishments over the last two years: Food and water caches have been established at the Warm Vehicle Storage located at Fire Station 4, as distribution plan has been developed to distribute cache to all Fire Stations. This has been tested during the pandemic response in 2020. Continuing to maintain food and water cache at the central location.

Obstacles, Problems, or Delays: Determining resupply/rotation of food and water cache, need to formally document the distribution plan in SOP.

Is the project still relevant? If not, please explain: Yes, this project is still relevant.

Should the project be modified or eliminated? No, this project should not be modified or eliminated.

Other Comments: N/A

# 2017 Thornton, Federal Heights, and Northglenn Hazard Mitigation Plan

## Mitigation Action Guide 2020 Progress Report Form

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**Please complete one Form for each Mitigation Action Guide (MAG):**

Project Name: Tertiary Data Center Location

MAG Number: TH71

Review Date: 11/30/2020

Reviewer Name: Scott Tekavec

Thornton Department: Management Services/Information Technology

---

**Project Status:**

<input type="checkbox"/> Project Completed	Completion Date:
<input type="checkbox"/> Project Started and Underway	Anticipated Completion Date:
<input type="checkbox"/> Project Budgeted	Anticipated Start Date:
<input type="checkbox"/> Project on CIP	CIP Project Number:
<input type="checkbox"/> Project Delayed	Please Explain Below.
<input checked="" type="checkbox"/> Project Planned but not Budgeted	Plan Name and Page:
<input type="checkbox"/> Project Canceled	Please explain below.

---

**Project Progress Updates (Use additional pages as necessary):**

Accomplishments over the last two years: N/A

Obstacles, Problems, or Delays: Budgeting and IGA with Adams County for use of the their Data center for this use.

Is the project still relevant? If not, please explain: Very

Should the project be modified or eliminated? No

Other Comments: Information Technology and the Adams Count IT Director have been in conversation about using the ADCO location for years. The Fiber project has opportunity for interconnection of the networks. The IGA has been holding this back for some time.

# 2017 Thornton, Federal Heights, and Northglenn Hazard Mitigation Plan

## Mitigation Action Guide 2020 Progress Report Form

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**Please complete one Form for each Mitigation Action Guide (MAG):**

Project Name: Thornton as Emergency Transportation for Seniors

MAG Number: TH72

Review Date: 12/7/2020

Reviewer Name: Lisa Ranalli

Thornton Department: Parks, Recreation and Community Programs

---

**Project Status:**

<input type="checkbox"/> Project Completed	Completion Date:
<input checked="" type="checkbox"/> Project Started and Underway	Anticipated Completion Date:
<input type="checkbox"/> Project Budgeted	Anticipated Start Date:
<input type="checkbox"/> Project on CIP	CIP Project Number:
<input type="checkbox"/> Project Delayed	Please Explain Below.
<input type="checkbox"/> Project Planned but not Budgeted	Plan Name and Page:
<input type="checkbox"/> Project Canceled	Please explain below.

---

**Project Progress Updates (Use additional pages as necessary):**

Accomplishments over the last two years: Transportation is critical for Older Adults, the City has a solid partnership with Adams County and the A-Lift program which provides services to older adults throughout the community. We also work closely with Kent Moorman on issues or concerns that come up with regards to service provision.

Obstacles, Problems, or Delays:

Is the project still relevant? If not, please explain:

Should the project be modified or eliminated?

Other Comments:



# 2017 Thornton, Federal Heights, and Northglenn Hazard Mitigation Plan

## Mitigation Action Guide 2020 Progress Report Form

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### Please complete one Form for each Mitigation Action Guide (MAG):

Project Name: Thornton Facilities as Temporary Shelter for Seniors

MAG Number: TH73

Review Date: 12/07/20

Reviewer Name: Lisa Ranalli

Thornton Department: Parks, Recreation and Community Programs

---

### Project Status:

<input type="checkbox"/> Project Completed	Completion Date:
<input checked="" type="checkbox"/> Project Started and Underway	Anticipated Completion Date:
<input type="checkbox"/> Project Budgeted	Anticipated Start Date:
<input type="checkbox"/> Project on CIP	CIP Project Number:
<input type="checkbox"/> Project Delayed	Please Explain Below.
<input type="checkbox"/> Project Planned but not Budgeted	Plan Name and Page:
<input type="checkbox"/> Project Canceled	Please explain below.

---

### Project Progress Updates (Use additional pages as necessary):

Accomplishments over the last two years: Margaret Carpenter Recreation Center is set-up as a shelter as needed and works cooperatively with Red Cross. Additionally new facilities such as the new AAC and Trail Winds Recreation Center will also serve as future sites provided they have generators installed. The Old AAC which is now the home of Community Connections may also serve as a shelter, given the generator access.

Obstacles, Problems, or Delays:

Is the project still relevant? If not, please explain:

Should the project be modified or eliminated?

Other Comments:

# 2017 Thornton, Federal Heights, and Northglenn Hazard Mitigation Plan

## Mitigation Action Guide 2020 Progress Report Form

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**Please complete one Form for each Mitigation Action Guide (MAG):**

Project Name: Community Tornado Shelters

MAG Number: TH74

Review Date: 1/13/21

Reviewer Name: Ryan Doyle

Thornton Department: Management Services – Risk Management

---

**Project Status:**

<input type="checkbox"/> Project Completed	Completion Date:
<input type="checkbox"/> Project Started and Underway	Anticipated Completion Date:
<input type="checkbox"/> Project Budgeted	Anticipated Start Date:
<input type="checkbox"/> Project on CIP	CIP Project Number:
<input checked="" type="checkbox"/> Project Delayed	Please Explain Below.
<input type="checkbox"/> Project Planned but not Budgeted	Plan Name and Page:
<input type="checkbox"/> Project Canceled	Please explain below.

---

**Project Progress Updates (Use additional pages as necessary):**

Accomplishments over the last two years: No accomplishments have been made on this mitigation action. See previous review comments.

Obstacles, Problems, or Delays: See previous review comments.

Is the project still relevant? If not, please explain: Yes

Should the project be modified or eliminated? Yes. See previous comments but this MAG should be modified to include a more realistic deliverable of identifying other locations/solutions for the most vulnerable populations/ locations in the city for tornado shelters. The ultimate goal isn't to build new structures unless that is the only option a large population may have for readily accessible shelter.

Other Comments:

# 2017 Thornton, Federal Heights, and Northglenn Hazard Mitigation Plan

## Mitigation Action Guide 2020 Progress Report Form

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**Please complete one Form for each Mitigation Action Guide (MAG):**

Project Name: Tornado Sirens

MAG Number: TH75

Review Date: 1/13/21

Reviewer Name: Ryan Doyle

Thornton Department: Management Services – Risk Management

---

**Project Status:**

<input type="checkbox"/> Project Completed	Completion Date:
<input type="checkbox"/> Project Started and Underway	Anticipated Completion Date:
<input type="checkbox"/> Project Budgeted	Anticipated Start Date:
<input type="checkbox"/> Project on CIP	CIP Project Number:
<input checked="" type="checkbox"/> Project Delayed	Please Explain Below.
<input type="checkbox"/> Project Planned but not Budgeted	Plan Name and Page:
<input checked="" type="checkbox"/> Project Canceled	Please explain below.

---

**Project Progress Updates (Use additional pages as necessary):**

Accomplishments over the last two years: See previous review comments. In 2018 and 2019 a presentation was given to City Council based on a concerned resident’s recommendation that the city install audible tornado sirens. The presentation included a cost-benefit analysis of tornado sirens as a solution for mass notification in the case of a tornado. The staff recommendation was that the technology was old, hasn’t evolved to improve capability, doesn’t show effective response from the public and are costly and problematic to maintain. Ultimately the Council decided to not take any further steps to develop a tornado sirens project.

Obstacles, Problems, or Delays:

Is the project still relevant? If not, please explain: No

Should the project be modified or eliminated? Deleted but aspects of this projects ultimate deliverables for public notification should be included in another MAG that looks to improve, educate, and test current systems for mass notifications.

Other Comments:

# 2017 Thornton, Federal Heights, and Northglenn Hazard Mitigation Plan

## Mitigation Action Guide 2020 Progress Report Form

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**Please complete one Form for each Mitigation Action Guide (MAG):**

Project Name: (TH76) Urban Drainage Master Plan Updates

MAG Number: TH76

Review Date: 1/25/2021

Reviewer Name: Jim Kaiser

Thornton Department: Infrastructure

---

**Project Status:**

<input type="checkbox"/> Project Completed	Completion Date:
<input checked="" type="checkbox"/> Project Started and Underway	Anticipated Completion Date: 2024
<input type="checkbox"/> Project Budgeted	Anticipated Start Date:
<input type="checkbox"/> Project on CIP	CIP Project Number:
<input type="checkbox"/> Project Delayed	Please Explain Below.
<input type="checkbox"/> Project Planned but not Budgeted	Plan Name and Page:
<input type="checkbox"/> Project Canceled	Please explain below.

---

**Project Progress Updates (Use additional pages as necessary):**

Accomplishments over the last two years: Masterplan update completed for Basin 4100, updates underway for Niver Creek, Woodglen, and Brantner Gulch. Future updates planned for Todd Creek (2021) and Big Dry Creek Tributaries (2023).

Obstacles, Problems, or Delays:

Is the project still relevant? If not, please explain: yes

Should the project be modified or eliminated? no

Other Comments:

# 2017 Thornton, Federal Heights, and Northglenn Hazard Mitigation Plan

## Mitigation Action Guide 2020 Progress Report Form

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### Please complete one Form for each Mitigation Action Guide (MAG):

Project Name: Utilize Local Organizations for Messaging

MAG Number: TH77

Review Date: 1/13/21

Reviewer Name: Ryan Doyle

Thornton Department: Management Services – Risk Management

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### Project Status:

<input type="checkbox"/> Project Completed	Completion Date:
<input checked="" type="checkbox"/> Project Started and Underway	Anticipated Completion Date:
<input type="checkbox"/> Project Budgeted	Anticipated Start Date:
<input type="checkbox"/> Project on CIP	CIP Project Number:
<input type="checkbox"/> Project Delayed	Please Explain Below.
<input type="checkbox"/> Project Planned but not Budgeted	Plan Name and Page:
<input type="checkbox"/> Project Canceled	Please explain below.

---

### Project Progress Updates (Use additional pages as necessary):

Accomplishments over the last two years: In recent years, the city has expanded their department infrastructure to support communications and networking with community organizations. The city added greater staffing to the Community Connections Division of Community Services which is a daily coordination point for city resources and information to community groups. EM has worked to build strong relationships with this Division and share their resources to help share and receive information and resources with the community. We will continue to build these relationships moving forward.

Obstacles, Problems, or Delays: None

Is the project still relevant? If not, please explain: Yes

Should the project be modified or eliminated? Modified, to identify deliverables that allow for this project to be completed.

Other Comments:

# 2017 Thornton, Federal Heights, and Northglenn Hazard Mitigation Plan

## Mitigation Action Guide 2020 Progress Report Form

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**Please complete one Form for each Mitigation Action Guide (MAG):**

Project Name: (TH78) Villages North Detention Basin Emergency Overflow Structure

MAG Number: TH78

Review Date: 1/25/2021

Reviewer Name: Jim Kaiser

Thornton Department: Infrastructure

---

**Project Status:**

<input checked="" type="checkbox"/> Project Completed	Completion Date: 2020
<input type="checkbox"/> Project Started and Underway	Anticipated Completion Date:
<input type="checkbox"/> Project Budgeted	Anticipated Start Date:
<input type="checkbox"/> Project on CIP	CIP Project Number:
<input type="checkbox"/> Project Delayed	Please Explain Below.
<input type="checkbox"/> Project Planned but not Budgeted	Plan Name and Page:
<input type="checkbox"/> Project Canceled	Please explain below.

---

**Project Progress Updates (Use additional pages as necessary):**

Accomplishments over the last two years: The project was funded, designed, and constructed in the prior two years.

Obstacles, Problems, or Delays:

Is the project still relevant? If not, please explain:

Should the project be modified or eliminated?

Other Comments:

# 2017 Thornton, Federal Heights, and Northglenn Hazard Mitigation Plan

## Mitigation Action Guide 2020 Progress Report Form

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**Please complete one Form for each Mitigation Action Guide (MAG):**

Project Name: Volunteer Emergency Response Units

MAG Number: TH79

Review Date: 1/13/21

Reviewer Name: Ryan Doyle

Thornton Department: Management Services – Risk Management

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**Project Status:**

<input checked="" type="checkbox"/> Project Completed	Completion Date:
<input type="checkbox"/> Project Started and Underway	Anticipated Completion Date:
<input type="checkbox"/> Project Budgeted	Anticipated Start Date:
<input type="checkbox"/> Project on CIP	CIP Project Number:
<input type="checkbox"/> Project Delayed	Please Explain Below.
<input type="checkbox"/> Project Planned but not Budgeted	Plan Name and Page:
<input type="checkbox"/> Project Canceled	Please explain below.

---

**Project Progress Updates (Use additional pages as necessary):**

Accomplishments over the last two years: See previous comments. This project is a duplicate of another project and is complete based on development of the Thornton CERT Program.

Obstacles, Problems, or Delays:

Is the project still relevant? If not, please explain: No

Should the project be modified or eliminated? Eliminated. Any related deliverables should be consolidated into another MAG that pushes for the development of the Thornton CERT Program.

Other Comments:

# 2017 Thornton, Federal Heights, and Northglenn Hazard Mitigation Plan

## Mitigation Action Guide 2020 Progress Report Form

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**Please complete one Form for each Mitigation Action Guide (MAG):**

Project Name: (TH80) Washington St and GHC South Tributary

MAG Number: TH80

Review Date: 1/25/2021

Reviewer Name: Jim Kaiser

Thornton Department: Infrastructure

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**Project Status:**

Project Completed

Completion Date:

Project Started and Underway

Anticipated Completion Date:

Project Budgeted

Anticipated Start Date:

Project on CIP

CIP Project Number:

Project Delayed

Please Explain Below.

Project Planned but not Budgeted

Plan Name and Page:

Project Canceled

Please explain below.

---

**Project Progress Updates (Use additional pages as necessary):**

Accomplishments over the last two years: Design planned to start 2023, construction 2025 in the Stormwater Utility fund plan.

Obstacles, Problems, or Delays:

Is the project still relevant? If not, please explain: yes

Should the project be modified or eliminated? no

Other Comments:



# 2017 Thornton, Federal Heights, and Northglenn Hazard Mitigation Plan

## Mitigation Action Guide 2020 Progress Report Form

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**Please complete one Form for each Mitigation Action Guide (MAG):**

Project Name: Water Conservation Plan Update and Implementation

MAG Number: TH81

Review Date: December 7, 2020

Reviewer Name: Laura Wing

Thornton Department: Infrastructure – Water Resources

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**Project Status:**

<input checked="" type="checkbox"/> Project Completed	Completion Date: 9/2017
<input checked="" type="checkbox"/> Project Started and Underway	Anticipated Completion Date: ongoing thru 2024
<input checked="" type="checkbox"/> Project Budgeted	Anticipated Start Date: January 1, 2018
<input type="checkbox"/> Project on CIP	CIP Project Number:
<input type="checkbox"/> Project Delayed	Please Explain Below.
<input type="checkbox"/> Project Planned but not Budgeted	Plan Name and Page:
<input type="checkbox"/> Project Canceled	Please explain below.

---

**Project Progress Updates (Use additional pages as necessary):**

Accomplishments over the last two years: The updated Water Efficiency Plan was adopted by City Council in September 2017. Implementation is ongoing through 2024. During the last two years, new water-wise landscape programs were established with the goal of reducing summer water demand and improving landscape drought tolerance. A new Drought Management Plan was developed that can be included in the future Hazard Mitigation Plan update.

Obstacles, Problems, or Delays: N/A

Is the project still relevant? If not, please explain: Yes

Should the project be modified or eliminated? Neither

Other Comments: None

# 2017 Thornton, Federal Heights, and Northglenn Hazard Mitigation Plan

## Mitigation Action Guide 2020 Progress Report Form

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**Please complete one Form for each Mitigation Action Guide (MAG):**

Project Name: (TH82) West Sprat Platte Reservoir Spillway

MAG Number: TH82

Review Date: 1/25/2021

Reviewer Name: Jim Kaiser

Thornton Department: Infrastructure

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**Project Status:**

<input checked="" type="checkbox"/> Project Completed	Completion Date: 2018
<input type="checkbox"/> Project Started and Underway	Anticipated Completion Date:
<input type="checkbox"/> Project Budgeted	Anticipated Start Date:
<input type="checkbox"/> Project on CIP	CIP Project Number:
<input type="checkbox"/> Project Delayed	Please Explain Below.
<input type="checkbox"/> Project Planned but not Budgeted	Plan Name and Page:
<input type="checkbox"/> Project Canceled	Please explain below.

---

**Project Progress Updates (Use additional pages as necessary):**

Accomplishments over the last two years:

Obstacles, Problems, or Delays:

Is the project still relevant? If not, please explain:

Should the project be modified or eliminated?

Other Comments: Duplicate with at least two other MAGs; eliminate this one.

# 2017 Thornton, Federal Heights, and Northglenn Hazard Mitigation Plan

## Mitigation Action Guide 2020 Progress Report Form

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**Please complete one Form for each Mitigation Action Guide (MAG):**

Project Name: (TH83) York St & Big Dry Creek, E-470 to York

MAG Number: TH83

Review Date: 1/25/2021

Reviewer Name: Jim Kaiser

Thornton Department: Infrastructure

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**Project Status:**

<input type="checkbox"/> Project Completed	Completion Date:
<input checked="" type="checkbox"/> Project Started and Underway	Anticipated Completion Date: late 2021
<input type="checkbox"/> Project Budgeted	Anticipated Start Date:
<input type="checkbox"/> Project on CIP	CIP Project Number:
<input type="checkbox"/> Project Delayed	Please Explain Below.
<input type="checkbox"/> Project Planned but not Budgeted	Plan Name and Page:
<input type="checkbox"/> Project Canceled	Please explain below.

---

**Project Progress Updates (Use additional pages as necessary):**

Accomplishments over the last two years: Project is under design.

Obstacles, Problems, or Delays:

Is the project still relevant? If not, please explain: yes

Should the project be modified or eliminated? no

Other Comments:

# 2017 Thornton, Federal Heights, and Northglenn Hazard Mitigation Plan

## Mitigation Action Guide 2020 Progress Report Form

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**Please complete one Form for each Mitigation Action Guide (MAG):**

Project Name: Hazardous Tree Mitigation

MAG Number: TH84

Review Date: 12/4/2020

Reviewer Name: Cory Cyrus

Thornton Department: Community Services- Forestry

Phone and email: 303-255-7874 Cory.Cyrus@ThorntonCO.gov

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**Project Status:**

Project Completed

Project Started and Underway

Project Budgeted

Project on CIP

Project Delayed

Project Planned but not Budgeted

Project Canceled

Completion Date:

Anticipated Completion Date:

Anticipated Start Date:

CIP Project Number: 561683-20 (20-494)

Please Explain Below.

Plan Name and Page:

Please explain below.

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**Project Progress Updates (Use additional pages as necessary):**

Accomplishments over the last two years: ID and removal of 30 hazardous trees across the city.

Pruning of various trees to prevent hazardous conditions from occurring.

Obstacles, Problems, or Delays: Available staff time to ID, inventory, and monitor potential hazards. Inventory cycle is currently on a 5 year cycle due to staffing.

Is the project still relevant? If not, please explain: Yes

Should the project be modified or eliminated? No

Other Comments: