



ALTERNATIVES KICKOFF MEETING MINUTES

Brantner Gulch MDP and FHAD
Tuesday, January 3, 2023
9:00-10:30 am Microsoft Teams

Anticipated Attendees:

Attended	Name	Company	E-mail
x	Andy Stewart	Mile High Flood District (MHFD)	astewart@mhfd.org
x	Drew Roberts	MHFD	droberts@mhfd.org
x	Pam Acre	City of Northglenn (Northglenn)	pace@northglenn.org
x	Russ Nelson	Adams County	rnelson@adcogov.org
x	Denise Beltran Torresdey	Adams County	dbeltrantorresdey@adcogov.org
x	Trevor Graf	Adams County Parks and Open Space	tgraf@adcogov.org
x	Jim Kaiser	City of Thornton (Thornton)	Jim.kaiser@ThorntonCO.gov
x	Rachelle Plas	Thornton	Rachelle.Plas@ThorntonCO.gov
x	Amy Gabor	Olsson	agabor@olsson.com
x	Hannah Pring	Olsson	hpring@olsson.com

The meeting was held to discuss the FHAD status and kickoff the alternatives phase of the study. This summary is intended to reflect the key points raised, issues for further consideration, and action items resulting from the discussions. The non-bold items comprised the meeting agenda. The items in bold resulted from the discussions.

- 1) FHAD
 - a) Address final model comments (SPR Trib 7 in golf course)
 - i) **Lee's Farm development at Quebec Street and E. 136th Avenue along Fairgrounds Tributary is not incorporated into the FHAD model. Timing is unknown. Development might not have large impact on actual channel. If timing allows, MDP can consider development as it relates to the channel and crossing structure.**
 - b) Floodway model
 - i) General approach
 - (1) Floodplain=floodway when contained in channel (majority of channels)
 - (a) **Backwater conditions of detention ponds shall not be included as floodplain=floodway. Encroachments are to be added at the WSEL along the channel.**
 - (2) Keep trails outside of floodway where possible
 - ii) Sponsor preferences for FW?
 - (1) **MHFD would prefer a 3/10 of a foot floodway not to exceed.**
 - iii) Golf course area
 - (1) **A floodway that is too wide would theoretically require a CLOMR for any golf course sculpting. An overly wide floodway doesn't protect much within the course and would not serve the people of Adams County productively. A minimized floodway in this area would be better.**

Defining the floodway where flow splits occur will be discussed with Hung-Teng Ho at MHFD.

- (2) Floodway should be a holistic approach to prevent inhibiting future grading in the golf course area.**
 - (3) A new Master Plan in this area has been completed and will be provided by Adams County. The floodway model will consider the master plan to the extent feasible.**
 - (4) The Brantner Gulch floodplain spill over Henderson Road will be handled in the floodplain mapping portion of the project and will be informed by the 2D model.**
- c) Prepare and submit floodplain mapping, profiles, tables, and complete report
- 2) Problem areas
- a) Will evaluate capacity of each structure based on crossing type and local jurisdiction's criteria
 - b) Overtopping street crossings in 100-year event
 - i) E 124th Avenue (Brantner Gulch)
 - ii) E. 128th Avenue (Brantner Gulch)
 - iii) Riverdale Road (Brantner Gulch)
 - (1) Crossing was designed for the 100-year and 2 of 3 cells were partially filled. The MDP alternatives will validate the design of this crossing in the event of a channel being built in the Golf Course.**
 - iv) Holly Street (Horizon Tributary) – evaluate upstream detention in MDP to see if it overtops with detention counted
 - v) E. 136th Avenue (SPRN Trib 7)
 - vi) Riverdale Road (SPRN Trib 7)
 - vii) Riverdale Road (SPRS Trib 6)
 - viii) Riverdale Road (Riverdale Bluffs area)
 - c) East Lake No. 2 storm drain system capacity
 - d) Ohio Lake spill
 - i) Eliminating the Ohio Lake spill would eliminate the spill reach that flows into the Karl's Farm development in Northglenn**
 - e) Golf course area and Riverdale Bluffs
 - f) Channel capacity will be further evaluated as floodplain is delineated
 - i) Along Brantner Gulch, the CLOMR approval for Creekside Village is 19-08-0681R; approved October 31, 2019. The extent of this work is from just upstream of the Lakeview Tributary confluence to Quebec Street; within the property owned by the Creekside Village developer. It does not propose any work in the oxbow to the south into (presently) unincorporated Adams County (re: 2.f.ii), just west of Quebec Street. Alternatives for this oxbow, and the balance of the length west to Holly Street should still be evaluated. Creekside Village also has approved grading plans and a Floodplain Development Permit for both the Plains and Lakeview Tributaries through their site, from 128th to the respective confluences. Since not SFHA today, this work was not included in the CLOMR. See excerpted pages illustrating**

- the extent of the work, and the proposed post construction BFE and tie-in limits.**
 - ii) Holly Street to 128th Avenue on Brantner Gulch and a portion of the South Platte River North Tributary 7 may require coordination between Thornton and Adams County improvements and criteria. There is a possible annexation of property south of Brantner Gulch and west of Quebec Street.**
 - g) Erosion and channel instability will be identified
- 3) Original Project Goals to consider during Alternatives

 - a) Main areas of concern and of note

 - i) Claude Court and RTD culverts (both appear to have capacity in draft model)
 - ii) Water quality is desired upstream of Mann-Nyholt Lake. Water augmentation occurs at the Mann-Nyholt Lake
 - iii) Infrastructure in fairgrounds – need to maintain access by at least one of the two bridges during storm events
 - iv) Brantner Ditch interface – separate flows from Brantner Gulch

 - (1) triple cell, 16x12 culverts are located under Riverdale Road but were filled in 5 feet deep. The culverts can be cleaned out to provide full conveyance. One cell is desired for use as a trail connection. It could be the north or south cell.
 - b) Observed problems/issues?

 - i) Childcare facility at Colorado Avenue and 124th is shown to be located in the floodplain – will review as floodplain mapping is completed
 - c) Follow Adams County Riverdale Regional Park Master Plan

 - i) Shows anticipated future alignment
 - ii) Continuous riparian corridor from 120th to 136th
 - iii) Enhance fishing and bird habitat – keep wildlife corridors accessible
 - d) Evaluate reintroducing flows between Mann-Nyholt Lake and the Fishing is Fun Pond along the historic Brantner Gulch channel alignment
- 4) Alternatives

 - a) Crossing structures
 - b) Future road/trail crossings
 - c) Channel improvements

 - i) Level of detail for alternatives?
 - d) Detention – **new detention facilities** are not anticipated for this study

 - i) Existing detention ponds will be analyzed and improvement recommendations made if needed.**
 - ii) Ohio Lake will likely need to be enhanced, and outlet structure improved. Will work to eliminate this spill in the alternatives.**
 - e) Water quality

 - i) Eastlake No. 3 – This lake likely needs to have a sediment analysis done and could potentially require dredging. Scope of this project may be a larger study for the parks department later down the road.**
 - f) The impacts of the Thornton developments along/north of Eastlake Avenue (124th) to Northglenn are a concern. Where will these developments outfall their stormwater? There is not 100-year capacity in the 128th railroad culvert/storm sewer that flows east into Eastlake No. 3. The south portion of this area historically flowed southeast towards the culvert/storm sewer in the Eastlake Avenue ROW north of the City of Northglenn public works yard.**

- g) Use SWIFT, or just GIS interface for alternatives?
 - i) **To be determined by MHFD.**
- h) **Deliverables:**
 - i) **Consider providing a document that shows proposed improvements that will withstand the test of time on a shelf, before the improvements are brought to final design. The plan should focus on what the improvements are trying to fix, with less specific recommendations that still adhere to the most recent criteria.**
 - ii) **Provide GIS interface with attributes that will interface well with MHFD's Confluence.**
 - iii) **Olsson will put together an example excerpt that outlines what we think could be useful information to include in the alternatives report for the project sponsors to review, and get buyoff prior to completing the full alternatives submittal.**
- h. Schedule
 - a. Draft alternatives to be submitted 10 weeks from authorization (to be completed)
- i. Upcoming meetings
 - a. After Draft Alternatives Analysis Report is reviewed
- j. Other

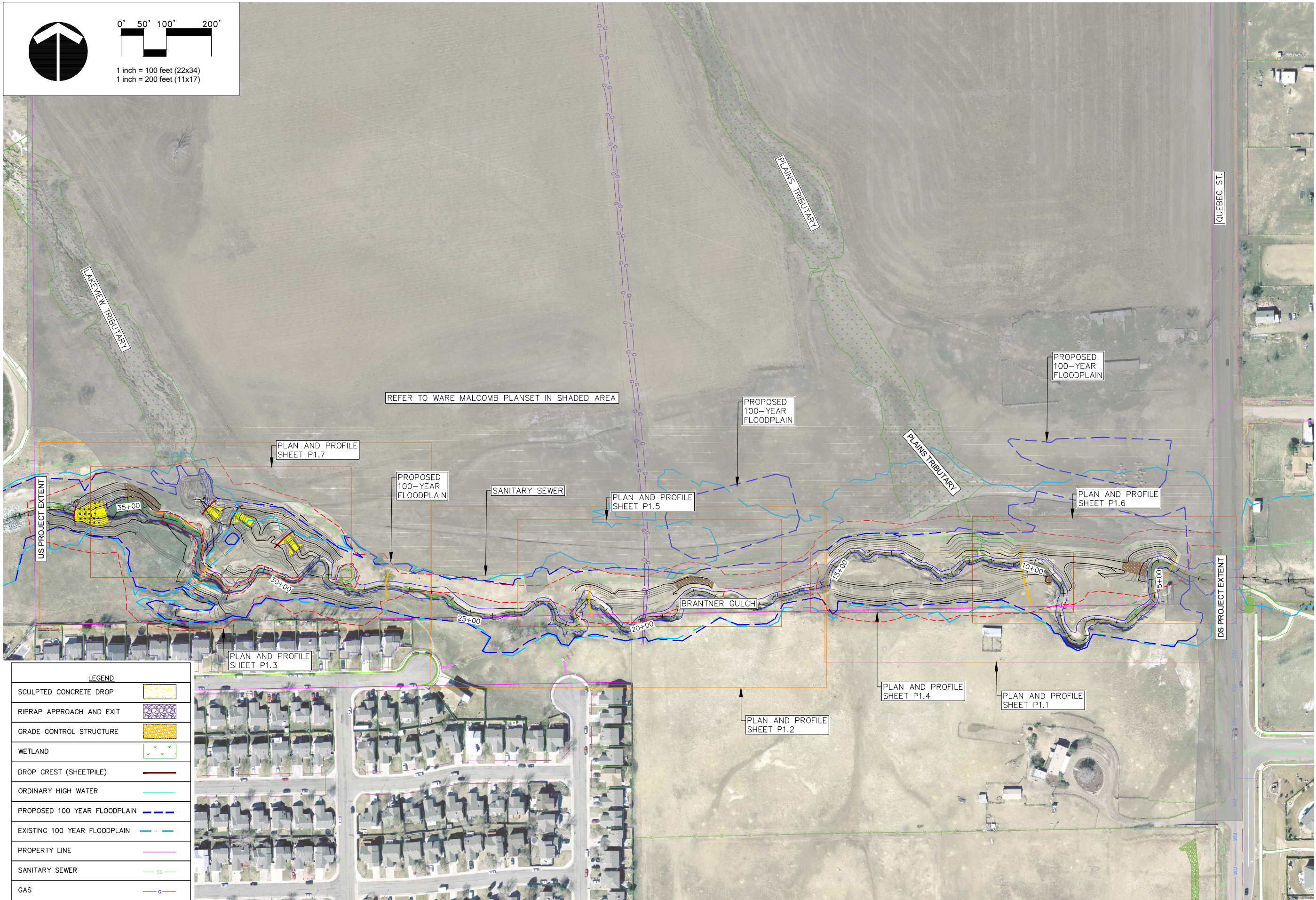
Action Items:

- **Adam's County: Provide most recent parks Master Plan**
- **MHFD: Direct Olsson on if SWIFT tool should be used for alternatives**

Please contact Olsson at 303-237-2072 with changes or questions regarding these meeting minutes. These minutes will be considered final unless comments are received within seven days of distribution. Although comments will be incorporated, as appropriate, only major revisions will be redistributed.

**Minutes prepared by: Hannah Pring
cc: Attendees, File**

Plotted: Aug 17, 2018 - 5:11pm alisonn C:\Dropbox (Otak CO WNF)\Otak CO WNF Team Folder\Projects\32738_BrantnerGulch\CAD\PlanSet\32738_Overview.dwg Layout Name: PROPOSED CONDITIONS OVERVIEW



0' 50' 100' 200'
 1 inch = 100 feet (22x34)
 1 inch = 200 feet (11x17)

LEGEND	
SCULPTED CONCRETE DROP	
RIPRAP APPROACH AND EXIT	
GRADE CONTROL STRUCTURE	
WETLAND	
DROP CREST (SHEETPILE)	
ORDINARY HIGH WATER	
PROPOSED 100 YEAR FLOODPLAIN	
EXISTING 100 YEAR FLOODPLAIN	
PROPERTY LINE	
SANITARY SEWER	
GAS	
LIMITS OF DISTURBANCE	

NO.	DATE	BY	REVISION COMMENTS

Design	Drawn	Checked	Date	Initial	Issue	Date:
KP/EA	KP/AN	EA	8/17/18	EA		

PREPARED FOR:
WOODBURY CORPORATION

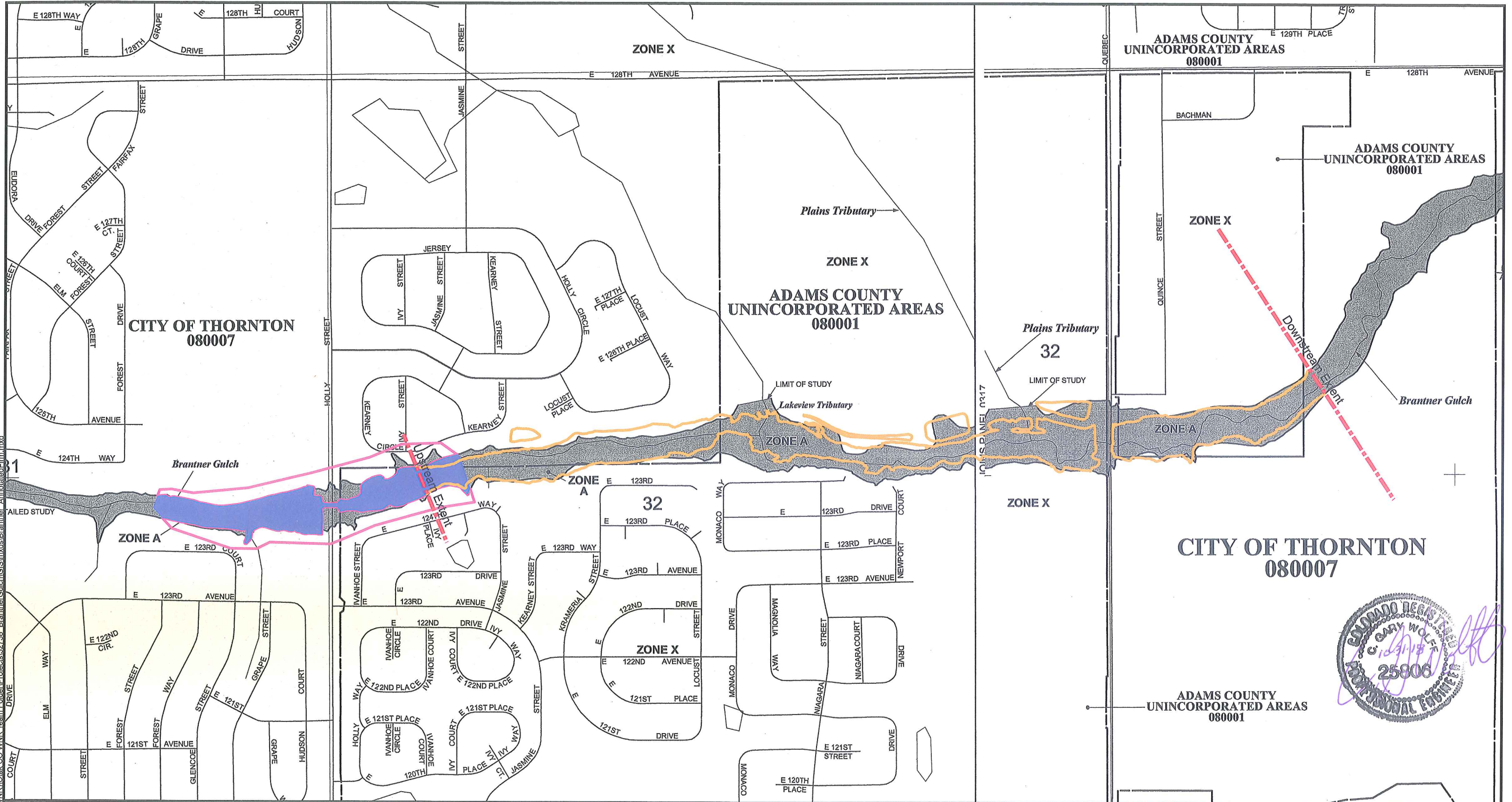
PROPOSED CONDITIONS OVERVIEW
 BRANTNER GULCH AT CREEKSIDE
 STABILIZATION PROJECT
 THORNTON, CO



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032738
 Project No. Drawing No.
P1.0B
 Sheet No.
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Legend

- - - Limit of Map Revision
- Effective Holly Street LOMR
- Revised 1% Annual Chance Floodplain
- Effective Zone A Holly Street LOMR



Vertical Datum: NAVD88
 Horizontal Datum: NAD83 (1991)
 Colorado North State Plane Coordinate System

FIGURE 3
ANNOTATED FIRM
BRANTNER GULCH PROJECT

Last Modified: 10/23/2018