

Stormwater and Floodwaters potential impact on the lower portion of the Hawkins Property

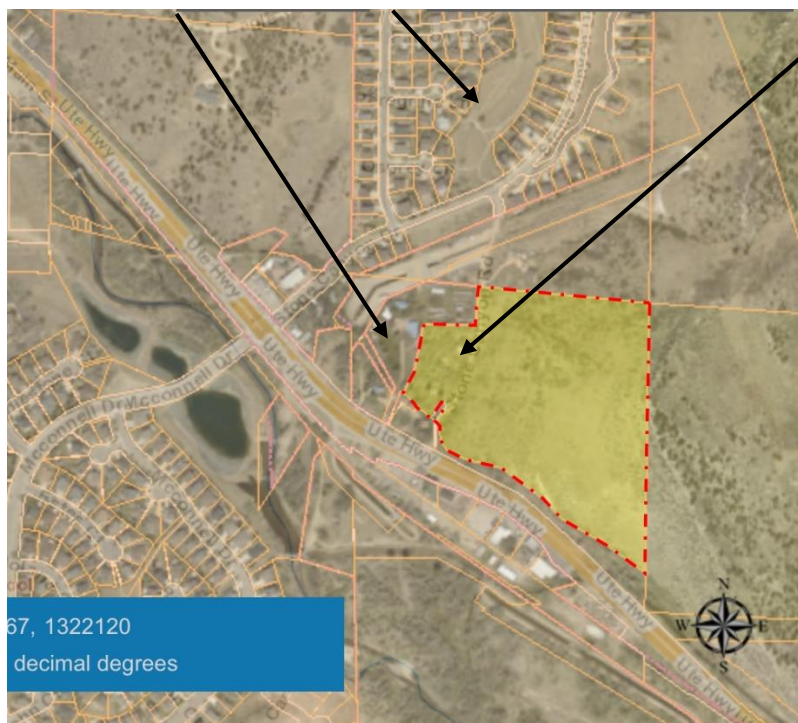
Documents used/quoted: Town of Lyons Stormwater Masterplan ICON Engineering, Inc November 2016, and new Colorado Hazard Mapping Program Floodplain map)

Contributed by Cindy Fisher

Please consider this information when evaluating the type and size of development for the Hawkins property. Please also consider the Ute Highway traffic congestion and dangers noted in the police summary made to the BoT, July 15, 2024.

Image from Boulder County Assessor's Property Search, illustrating relevant property locations.

Farmette, Stone Canyon open-space, Hawkins



Stormwater considerations

**Document: Town of Lyons Stormwater Masterplan ICON Engineering, Inc.
November 2016**

2.3 Outfall Descriptions

Stone Canyon (2.3.10) “The Stone Canyon Watershed is located east of the Third Avenue and Eastern Lyons Watersheds. The upper reaches, the 1550-acre watershed is dominated by large residential and undeveloped properties. The open channel which conveys most of the runoff for the Stone Canyon watershed has an average slope approximately four percent. The watershed ranges in elevation from 6580 feet to 5294 feet.” (Town of Lyons Stormwater Masterplan ICON Engineering, Inc. November 2016)

“The open channel drainageway passes through multiple roadway crossings within Boulder County. Within the Town of Lyons, **Stone Canyon is conveyed underneath Stone Canyon Road through a 13 foot by 8-foot reinforced concrete box culvert. The drainage path continues south where flow is conveyed underneath Ute Highway through an 8 foot by 4-foot reinforced concrete box culvert into St. Vrain Creek.**” (Town of Lyons Stormwater Masterplan ICON Engineering, Inc. November 2016) page 14).

(Note: the stormwater flows overland between the farmette and the Hawkins property. Personal communications obtained by C. Fisher)

4.3 Flood Hazards

4.3.10 **“Stone Canyon** The steep natural drainageway in the Stone Canyon Watershed conveys the runoff into the open space of the Stone Canyon Subdivision without significant flood hazards. The roadway crossing at Stone Canyon Road conveys the flow downstream without impacting a significant number of residences within the subdivision.

Development downstream of Stone Canyon Road has eliminated the conveyance capacity of the channel to convey runoff without impacting properties. The water backs up against Ute Highway as water is conveyed underneath the roadway through the box culvert.

Figure 4.1 Problem identification. Map from model of 100-year flood. Town of Lyons Stormwater Masterplan ICON Engineering, Inc. November 2016. Six feet of water backs up in the Stone Canyon “open-space”/retention basin.

Modeled 100-year flood 6' water, Stone Canyon

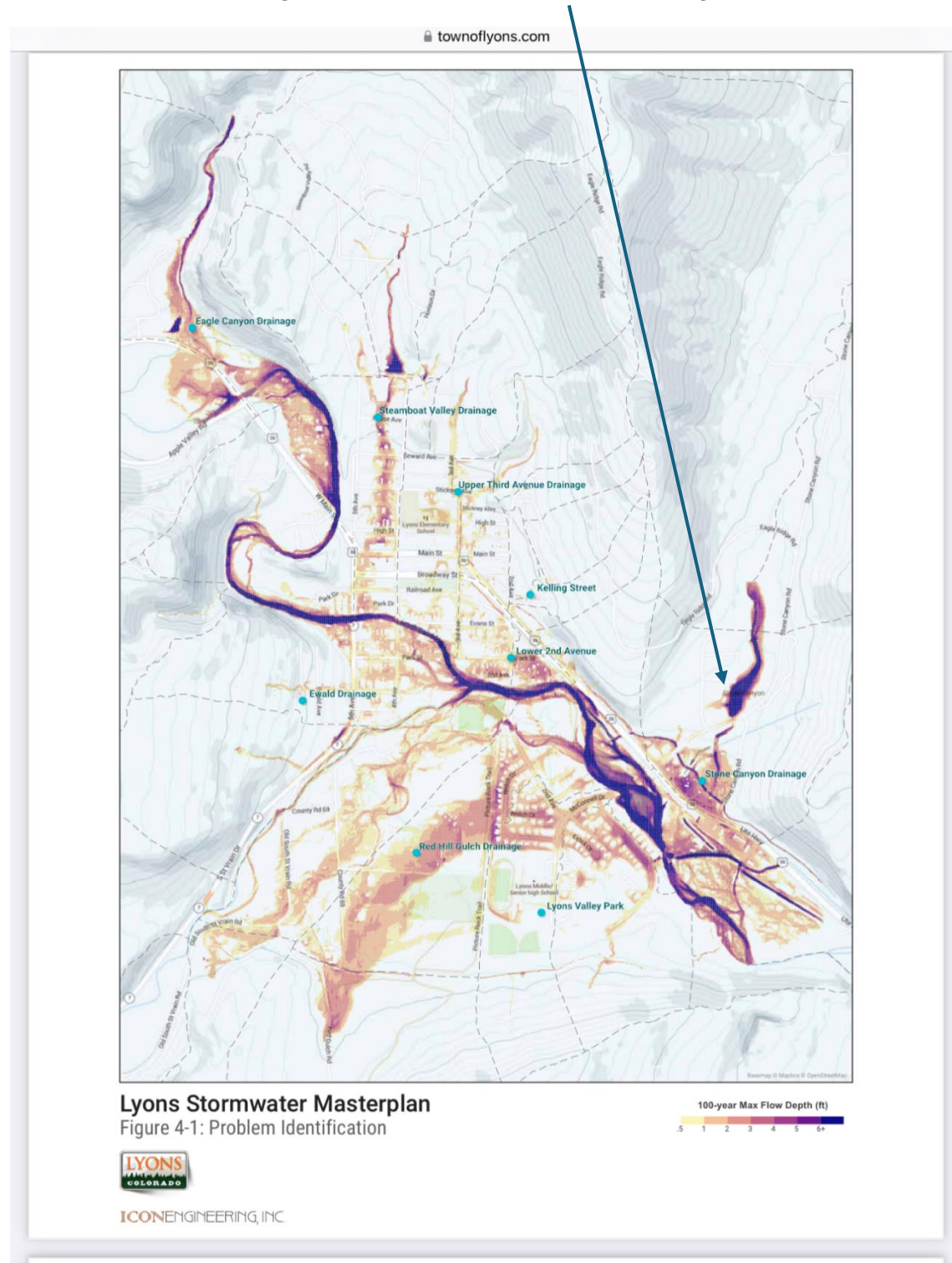
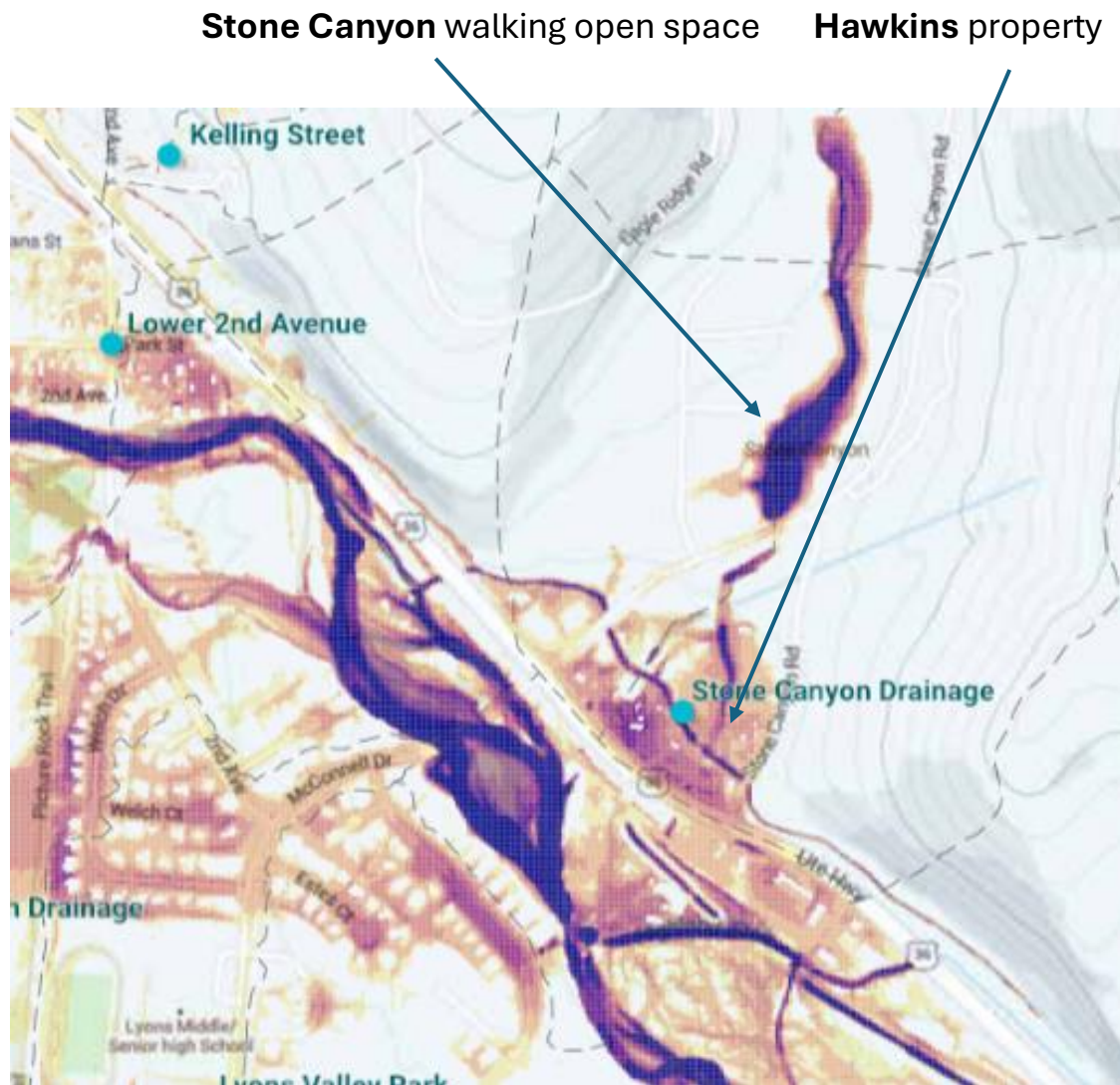


Figure 4.1 Problem identification, enlarged. (Town of Lyons Stormwater Masterplan ICON Engineering, Inc. November 2016).

Note flooding of the Hawkins property in the 100-year flood model.
(Town of Lyons Stormwater Masterplan ICON Engineering, Inc.
November 2016)



100-year Max Flow Depth (ft)






Floodplain considerations

Recent Colorado Hazard Mapping Program Floodplain map for a predicted 1% annual change flood zone (100-year floodplain), Cropped.

Hawkins Property



Flood Hazard Zones

-  Regulatory Floodway
-  1% Annual Chance Flood Hazard
-  0.2% Annual Chance Flood Hazard

The recent Colorado Hazard Mapping Program Floodplain map shows that portions of the Farmette and the Hawkins property lie within the 100-flood plain. That is in addition to the stormwater flooding hazard identified in the Lyons Stormwater Masterplan ICON Engineering, Inc. November 2016.