

MEMORANDUM

November 3, 2022

To: Susan Lee

Organization: Town of Frisco

From: Trung Vo, PE, AICP and Hadar Albo, EIT

Project: Granite Street Stop Sign Optimization

Re: Stop Sign Configuration Recommendation Addendum

Background

Toole Design submitted a Stop Sign Configuration Recommendation to the Town of Frisco on September 15th, 2022. Toole Design staff and Town of Frisco staff met in the field on October 18th, 2022 to observe two intersections: Granite Street at Madison Avenue and Granite Street at 2nd Avenue.

Recommendation

Figure 1 shows the revised, proposed stop sign configuration. Based on observations in the field and discussions with Town staff, changes from the original, proposed stop sign configuration in the September 15th, 2022 memo include adding a stop sign to control westbound traffic at Madison Avenue, maintaining the existing side-street stop control at 1st Avenue, and installing all-way stop control at 2nd Avenue. In addition to intersection changes, Toole Design proposes striping white edge lines 1' offset from the edge of pavement to visually delineate a 22' travel way along Granite Street from Madison Avenue to 7th Avenue.

Figure 1. Proposed Stop Control Configuration on Granite Street



Granite Street at Madison Avenue

Toole Design proposes the following changes at the Granite Street and Madison Avenue intersection:

- Install stop sign with flashing LEDs and stop bar for westbound approach
- Install double-yellow centerline on Granite Street from Madison Avenue to 1st Avenue
- Install double-yellow centerline on Madison Avenue from Granite Street to Mt Royal Drive
- Install double-yellow centerline on Madison Avenue from Mt Royal Drive to Granite alley

The proposed stop sign on westbound Granite Street is intended to mitigate conflicts between drivers turning right from Granite Street to travel northbound on Madison Avenue and drivers turning left from Madison Avenue to travel eastbound on Granite Street. The proposed double-yellow centerlines will discourage drivers from encroaching into the path of oncoming drivers. Attachment A includes a signing and striping plan.

Granite Street/1st Avenue

Toole Design recommends maintaining the existing stop sign configuration at 1st Avenue and Granite Street.

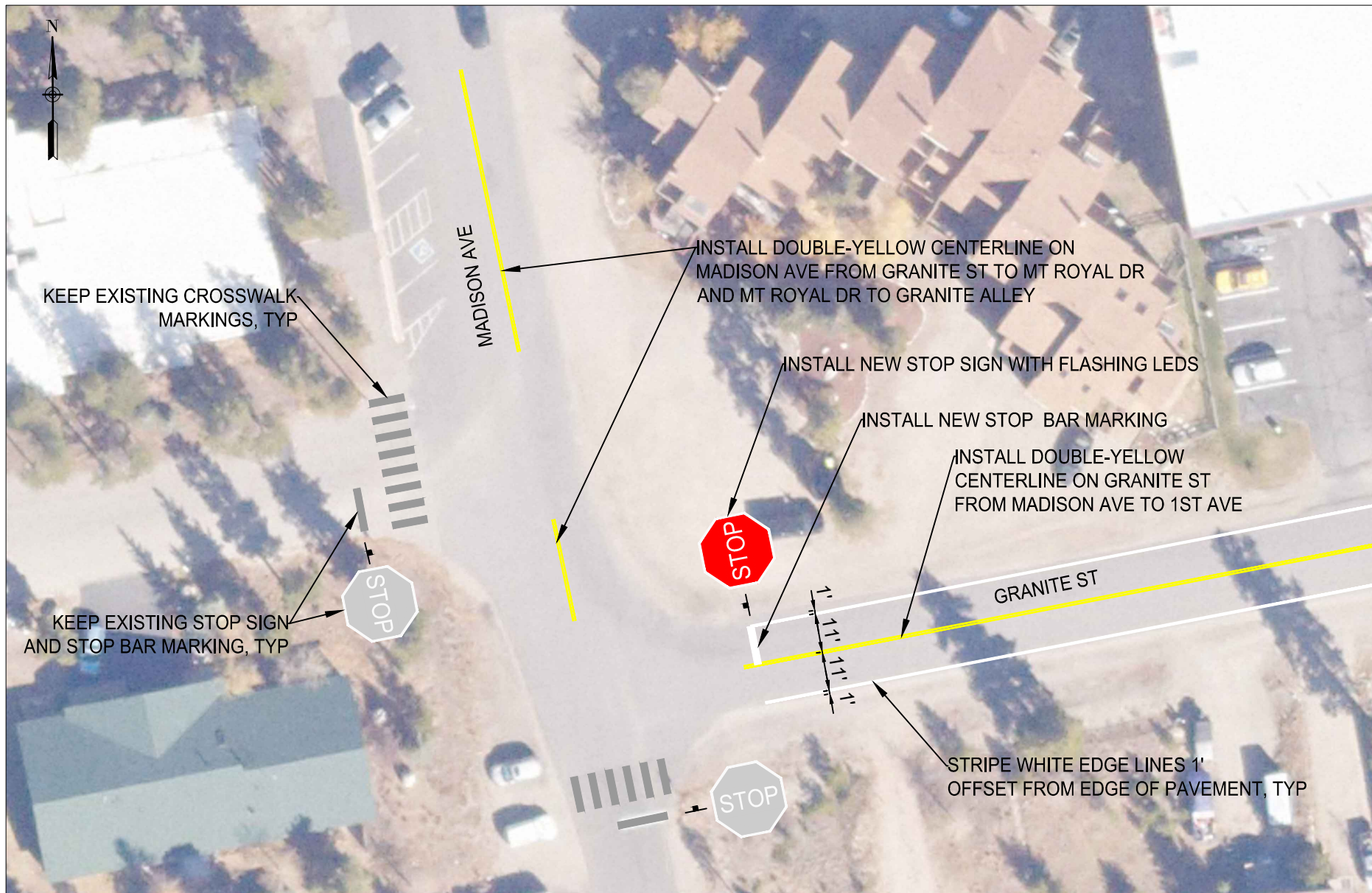
Granite Street at 2nd Avenue

Toole Design proposes the following changes at the Granite Street and 2nd Avenue intersection:

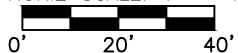
- Install stop signs and stop bars for northbound and southbound approaches
- Install marked crosswalk across 2nd Avenue north of Granite Street
- Convert angled parking spaces to painted curb extensions on 2nd Avenue north of Granite Street

Until the Frisco Pathway is completed, all-way stop control will facilitate safer crossings across Granite Street. The painted curb extensions will improve visibility for people traveling through the intersection. Attachment A includes a signing and striping plan.

Attachment A
Signing and Striping Plans



HORIZ SCALE: 1" = 40'

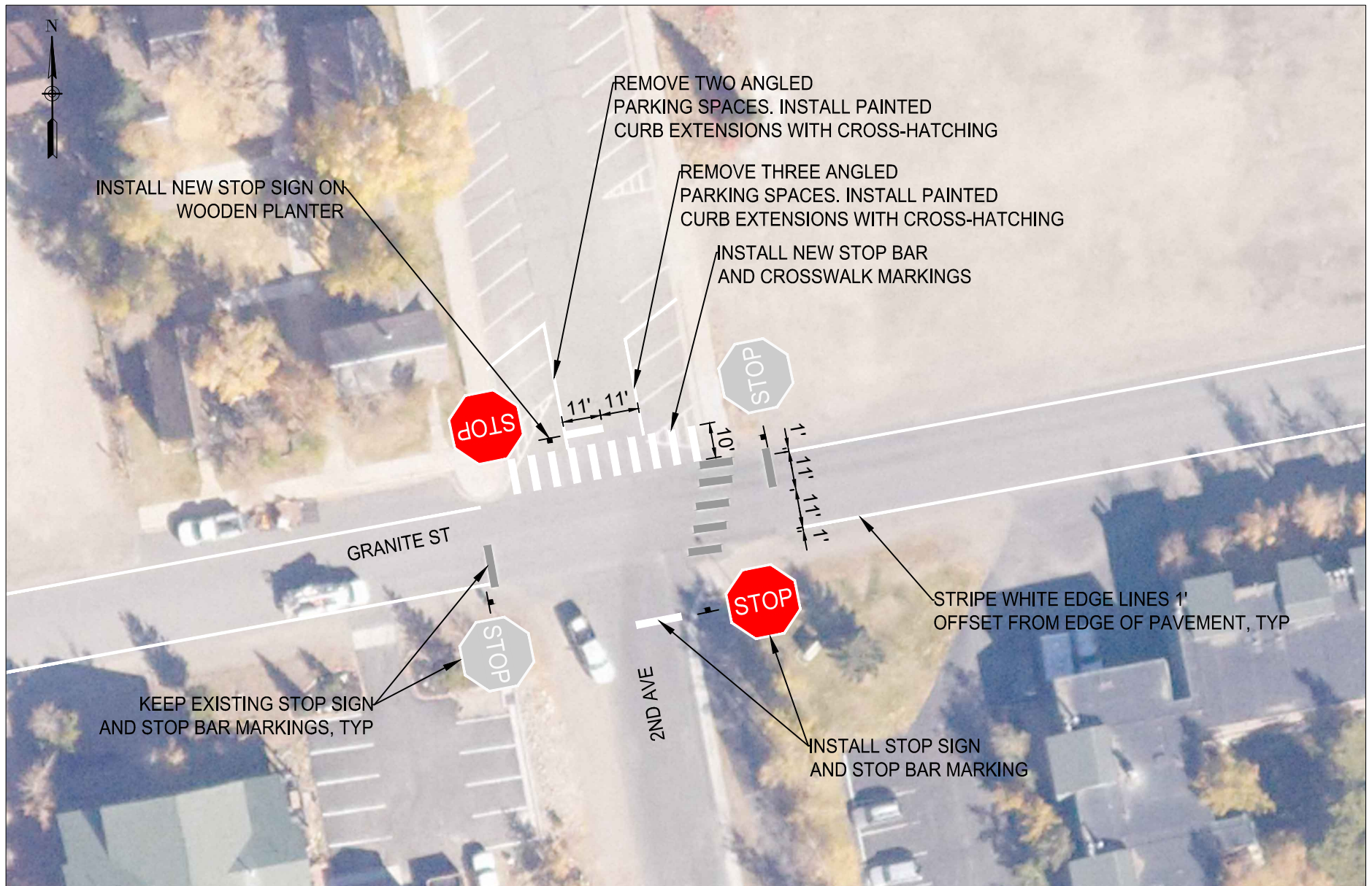


SIGNING AND STRIPING PLAN

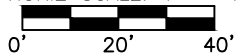
FRISCO, COLORADO
MADISON AVE AND GRANITE ST

TOOLE
DESIGN

10/27/2022



HORIZ SCALE: 1" = 40'



SIGNING AND STRIPING PLAN

FRISCO, COLORADO
2ND AVE AND GRANITE ST

TOOLE
DESIGN

10/27/2022