

Murphy Creek Traffic Discussion

Murphy Creek Metro District
Public Meeting
August 21, 2024

Carl Harline – Traffic Engineering Supervisor, Public Works
Josh Hoffmann – Traffic Engineering Supervisor, Development Services

Presentation Topics



Public Works

- Regional Studies
- Traffic Control Devices – evaluation and implementation
- Traffic Signal Construction
- Cross Jurisdictional Coordination

Development Services

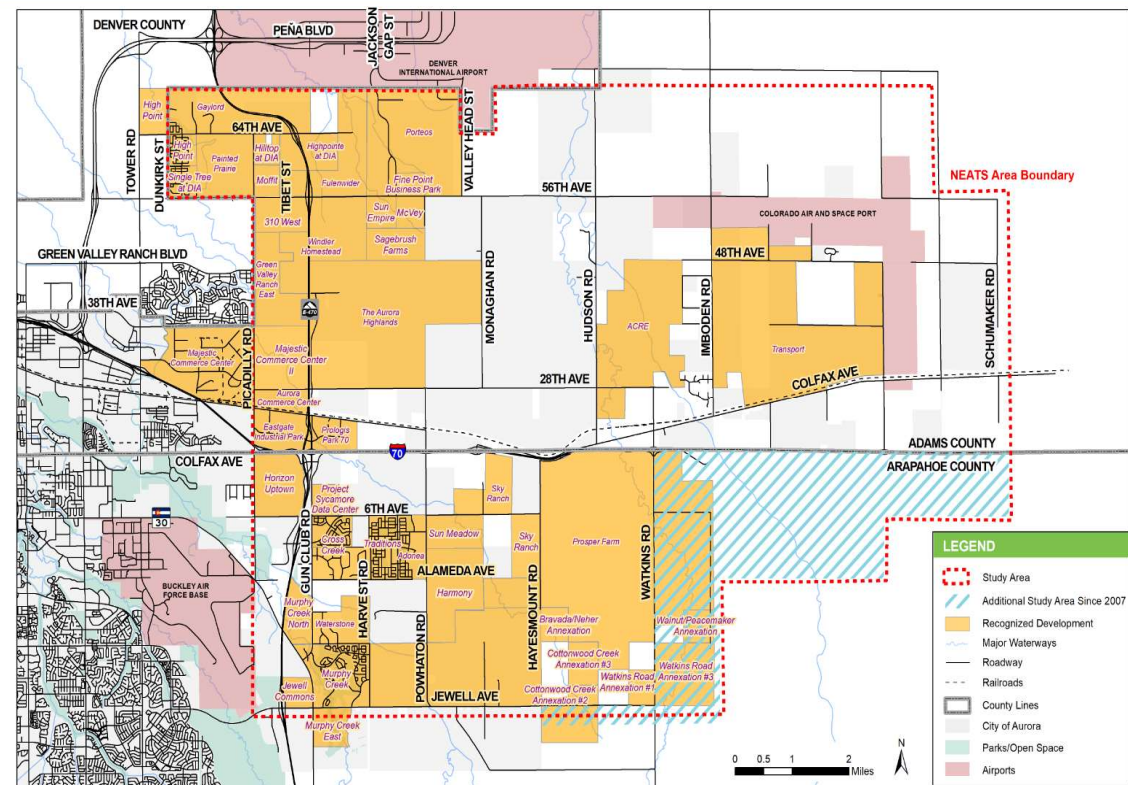
- Development Review
- Civil Plan Review
- Interagency Coordination on Regional Traffic Improvements
- Planned Gun Club Road and Jewell Avenue infrastructure
 - This topic was requested by Metro District Board

Regional Studies



Develop and Implement Regional Studies

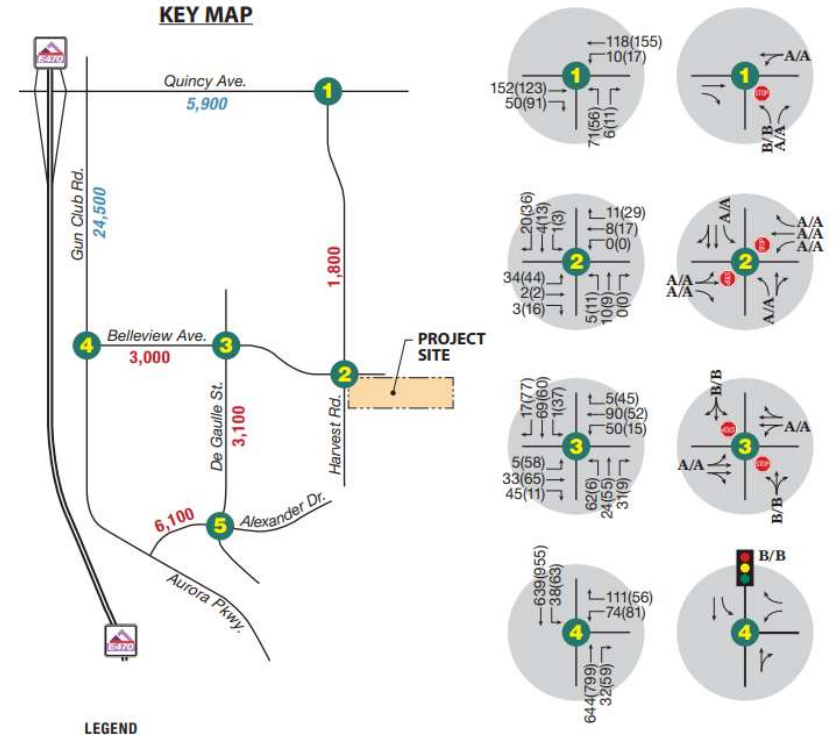
- NEATS Refresh (2018)
- SEATS (2012)
- Currently Developing a City-wide Multi-Modal Transportation Master Plan (Connecting Aurora)
 - engageaurora.org/connectingaurora



Development Review



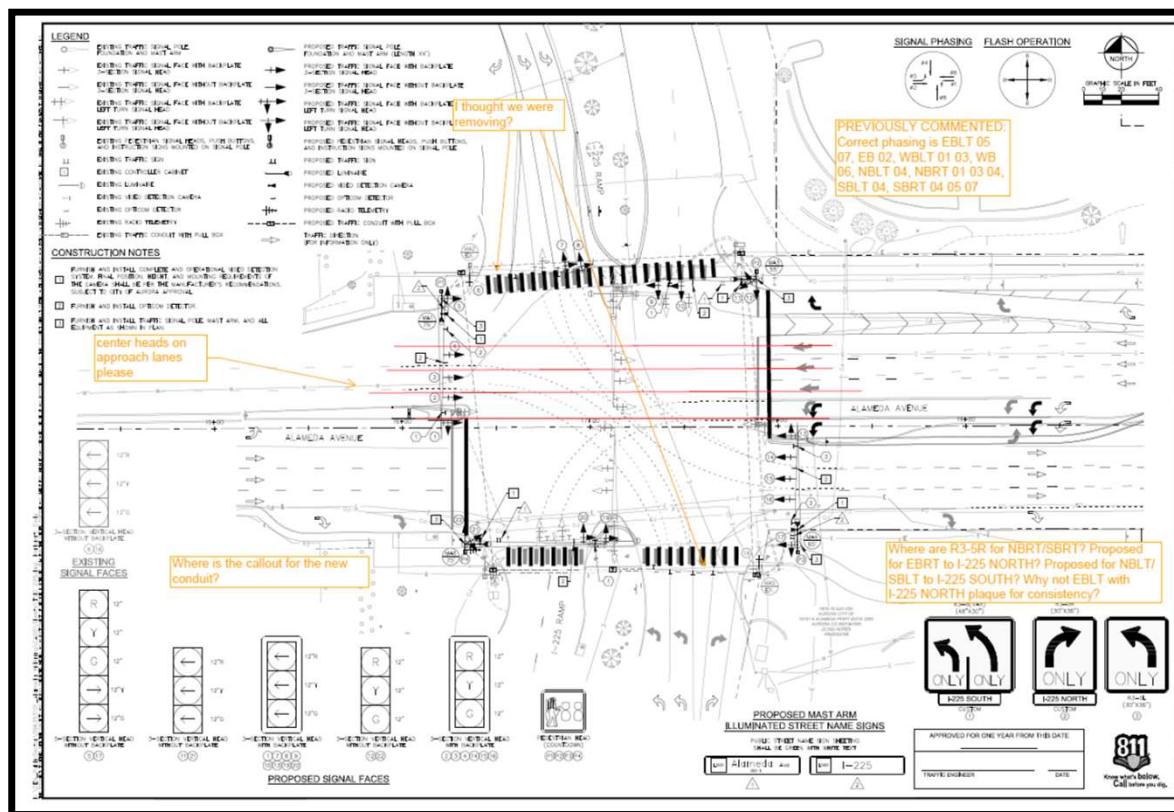
- New Construction
- Site Plans
- Traffic Impact Studies
- Make sure TIS are consistent with City's planning studies (NEATS, SEATS, etc.)



Civil Plan Review



- Signing & Striping
- Traffic Signals
- Confirm access control & locations



Cross-Jurisdictional Coordination



- State Highways within City
 - Havana (SH 30)
 - Gun Club (SH 30)
 - **Jewell & Gun Club, Hampden & Gun Club are CDOT's signals and not the City's for maintenance and operation**
- Parker (SH 83)
- Colfax (US 40 - 287)
- 6th Ave (SH 30)

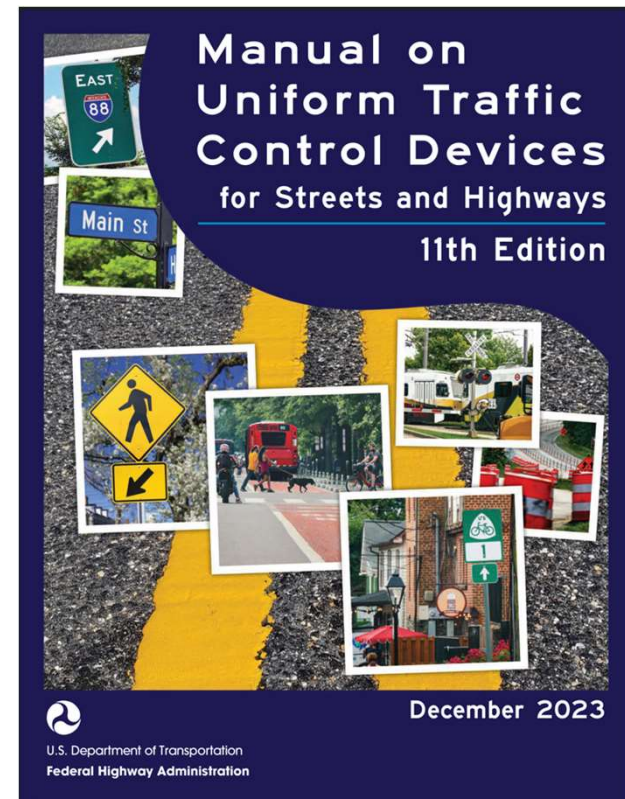


Traffic Control Devices



Traffic Signal Development/Planning

- Warrant Analysis Purpose
- Standardization
- Efficiency
- Evolving with periodic updates by national committee
- Mutcd.fhwa.gov



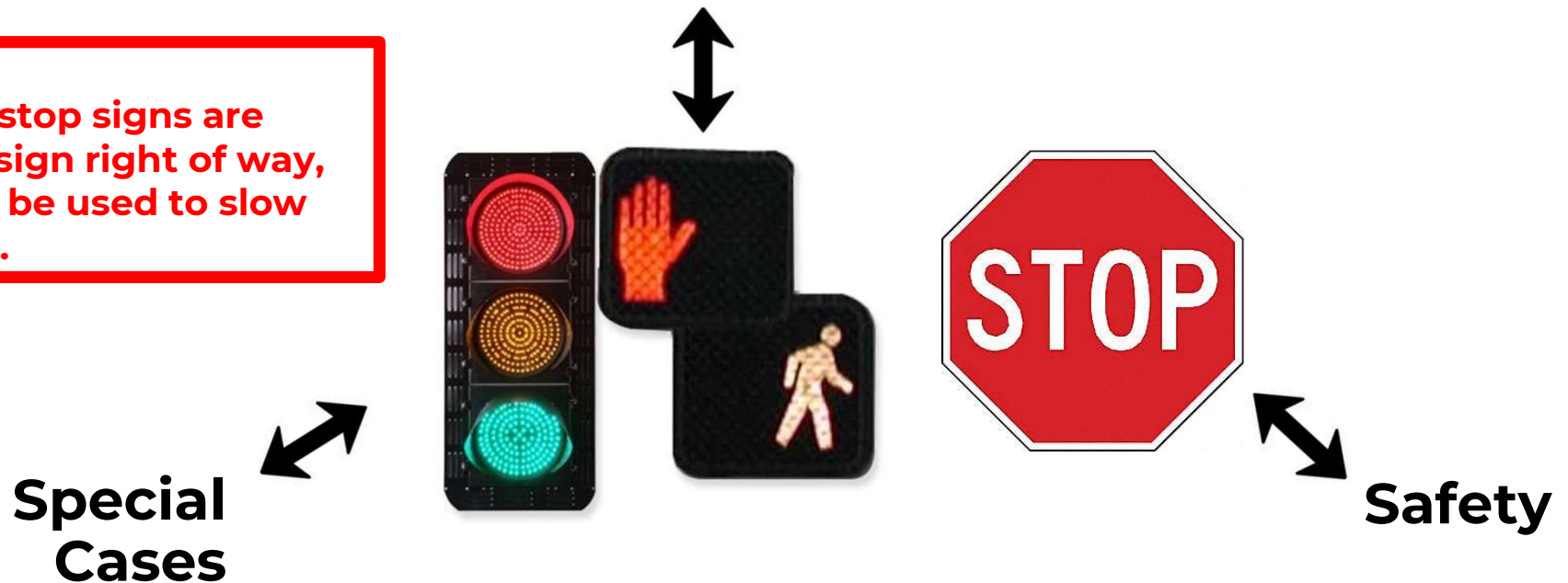
Intersection Control Evaluations



- Criteria for Evaluation

Traffic Volumes

Note:
Signals and stop signs are meant to assign right of way, they cannot be used to slow down traffic.



Traffic Signal Construction



- Planning
- Design
- Construction Management



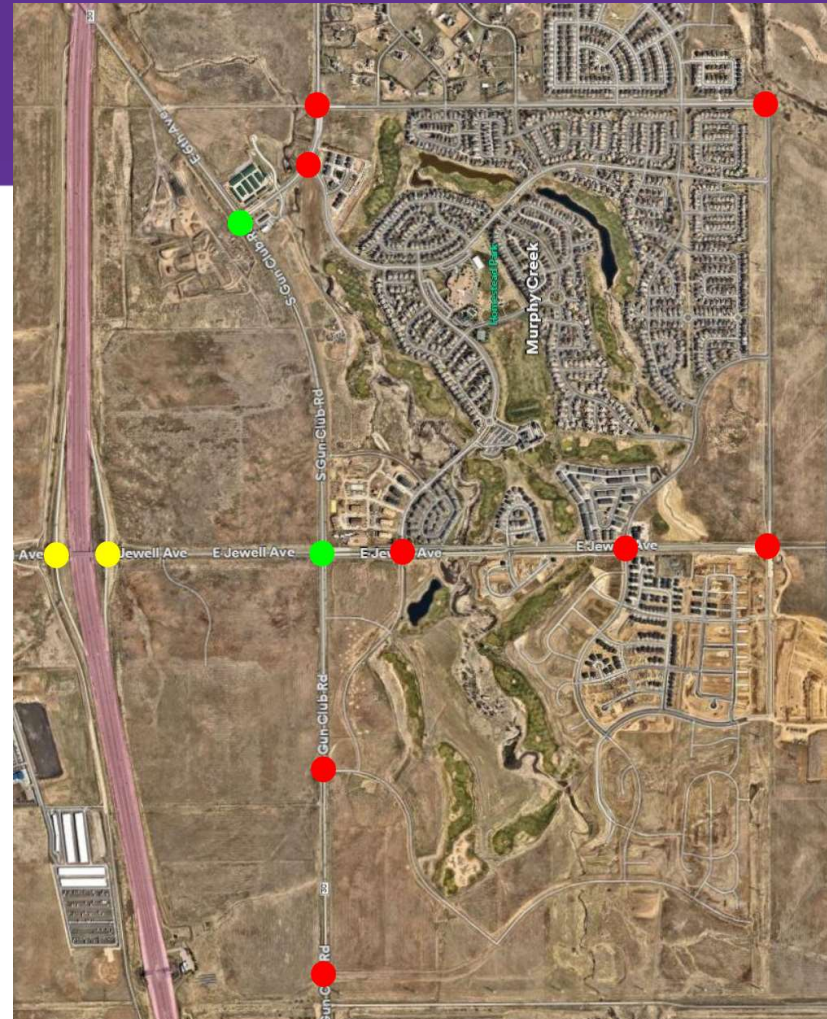
Planned Signals

Signalization plans based on traffic projections

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- Existing signals (maintained by CDOT)
- Aurora signals pending construction 2025
- Future signalization pending further study*

*Future signalizations as indicated by preliminary studies of anticipated traffic levels. Actual signalization timeline to be determined by warrant study as development occurs.



Gun Club Rd and Jewell Ave

Gun Club Rd - SH 30 to Quincy

- CDOT jurisdiction
- Signals owned and operated by CDOT
- All Murphy Creek-adjacent portions of Gun Club Rd are maintained/permitted through CDOT

Jewell Ave

- City of Aurora permitting and maintenance obligations
- Infrastructure projects are development funded/driven

Intersection of Gun Club Rd/Jewell Ave is maintained and operated by CDOT

- Inquiries to operations are deferred to CDOT
- Emergency outages/maintenance request also are deferred to CDOT



Gun Club Rd and Jewell Ave

Infrastructure Improvements

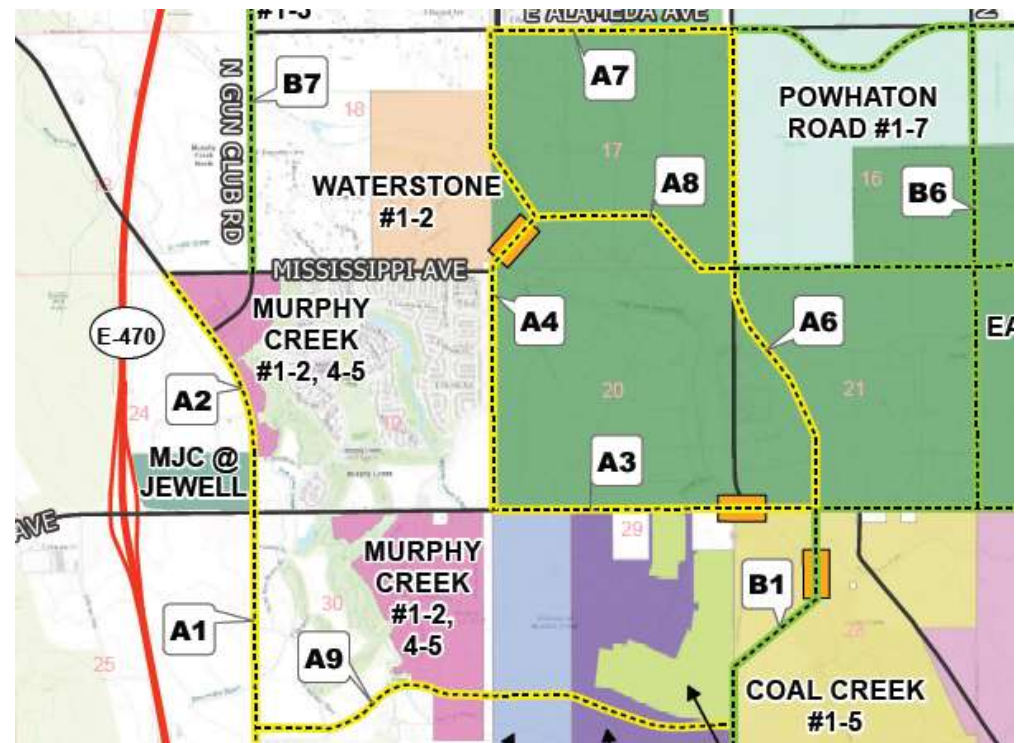
- Gun Club widening/additional infrastructure is driven by adjacent development
- Signal improvements at Gun Club Rd are tied to additional improvements to widen both the Gun Club Rd and Jewell Ave approaches to the intersection
- Jewell Ave widening/additional infrastructure (between E470 ramps and Gun Club Rd) is driven by adjacent development
- **Specific development information is provided in next few slides**

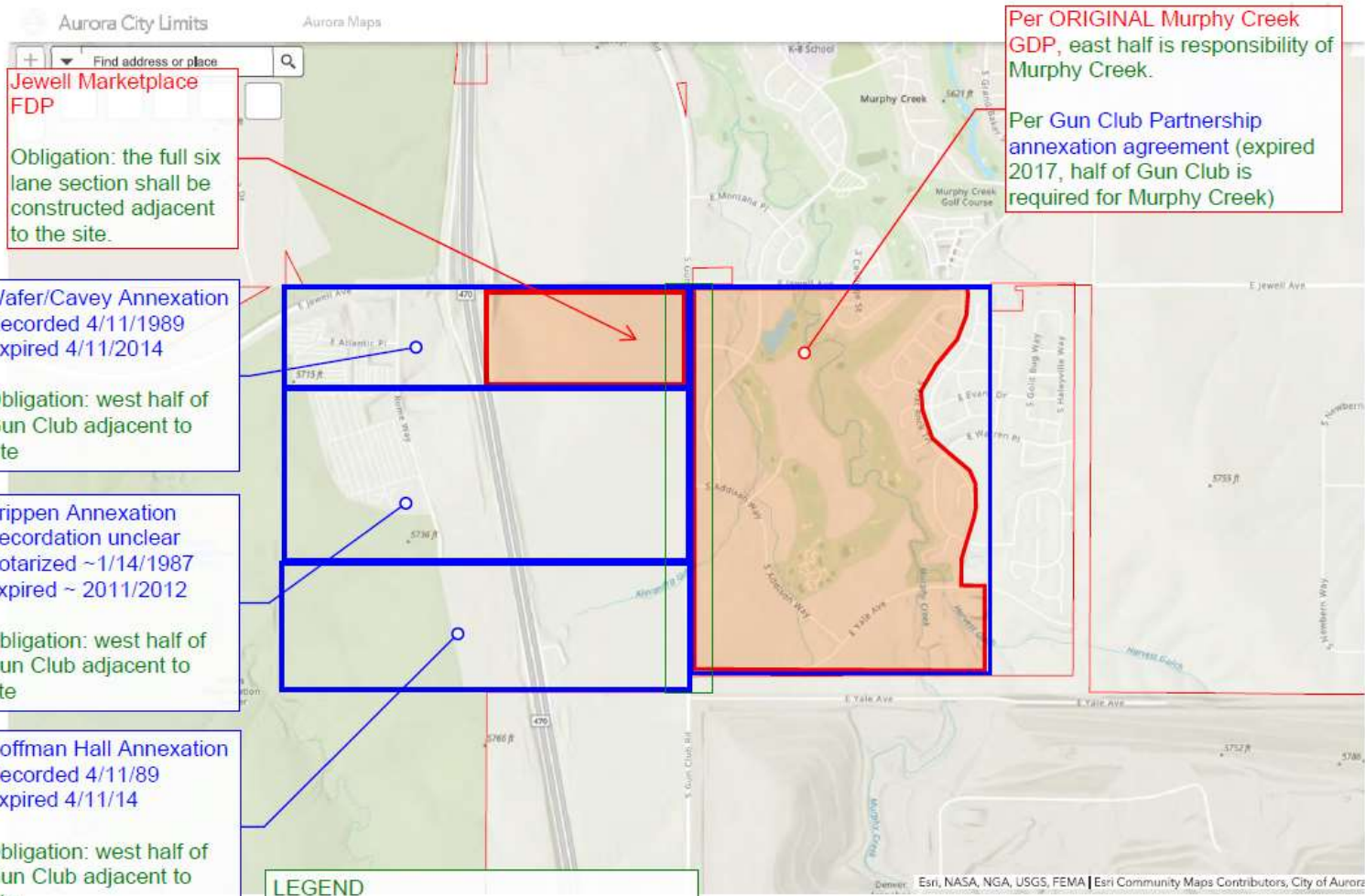


Gun Club Rd and Jewell Ave Improvement Plans



Infrastructure Improvement Location	PHASE	ID
Gun Club Rd (Quincy to Jewell)	A	1
Gun Club Rd (Jewell to north edge of Murphy Creek)	A	2
Jewell Ave (Harvest to Powhatan) incl. Bridge	A	3
Harvest Rd (Jewell to Alameda) incl. Bridge	A	4
Hogan Pkwy (E470 to Picadilly)	A	5
Powhatan Rd (Jewell to Alameda)	A	6
Alameda Ave (Harvest to Powhatan)	A	7
Mississippi Ave (Harvest to Powhatan)	A	8
Yale Ave (Gunclub to Powhatan)	A	9
1st Ave (Jamestown to Powhatan)	A	10
Powhatan Rd (Yale to Jewell) incl. Bridge	B	1
Jewell Ave (Powhatan to Hayesmount)	B	2
Alameda Ave (Powhatan to Hayesmount)	B	3
Hayesmount Rd (Jewell to Alameda)	B	4
Mississippi Ave (Powhatan to Hayesmount)	B	5
Monaghan Rd (Jewell to Alameda)	B	6
Gun Club Rd (Mississippi to 6th)	B	7
6th Pkwy (Gun Club to Powhatan)	B	8





Jewell Marketplace FDP

Obligation: the full six lane section shall be constructed adjacent to the site.

Per ORIGINAL Murphy Creek GDP, east half is responsibility of Murphy Creek.

Per Gun Club Partnership annexation agreement (expired 2017, half of Gun Club is required for Murphy Creek)

Wafer/Cavey Annexation
Recorded 4/11/1989
Expired 4/11/2014

Obligation: west half of Gun Club adjacent to site

Crippen Annexation
Recordation unclear
Notarized ~1/14/1987
Expired ~ 2011/2012

Obligation: west half of Gun Club adjacent to site

Hoffman Hall Annexation
Recorded 4/11/89
Expired 4/11/14

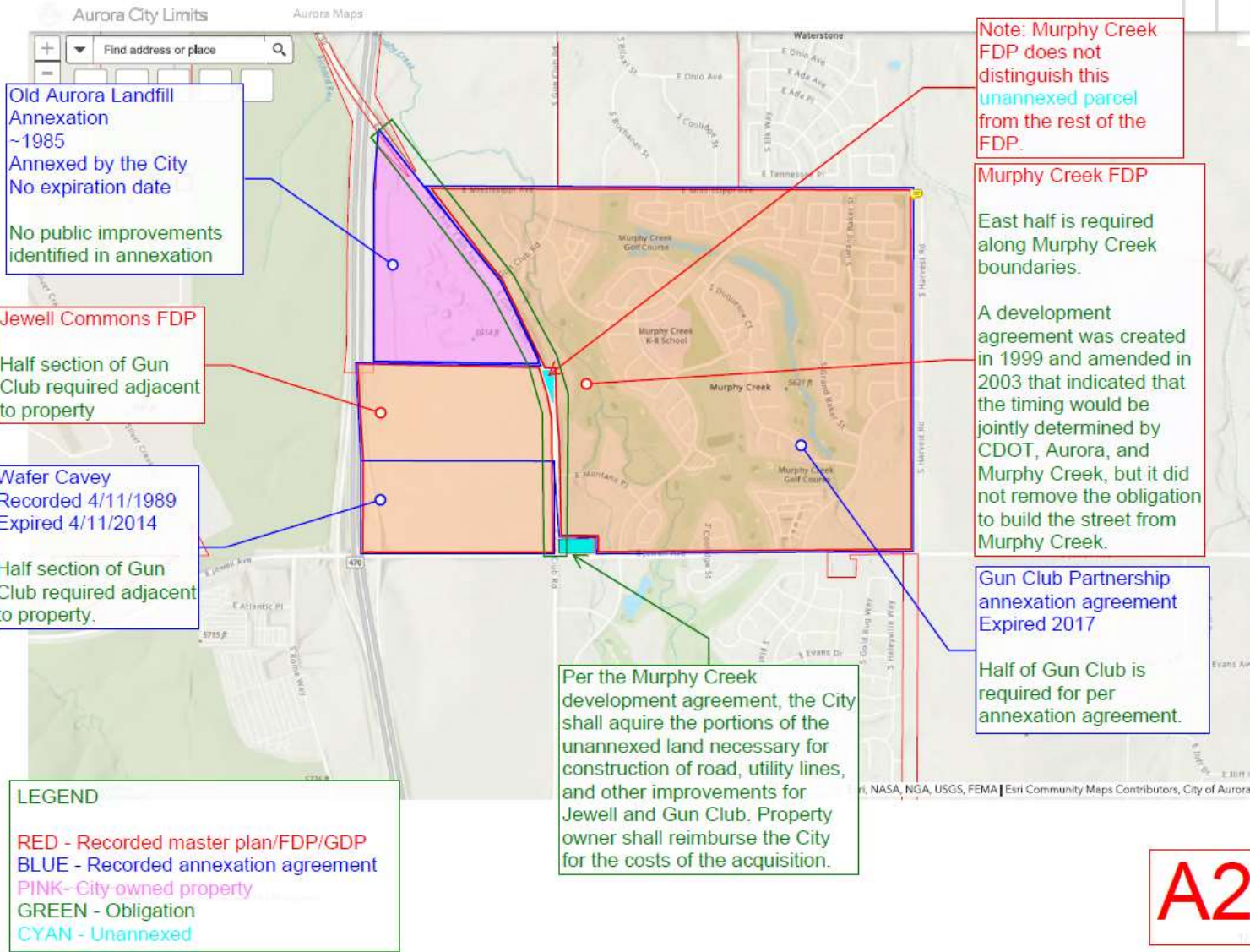
Obligation: west half of Gun Club adjacent to site

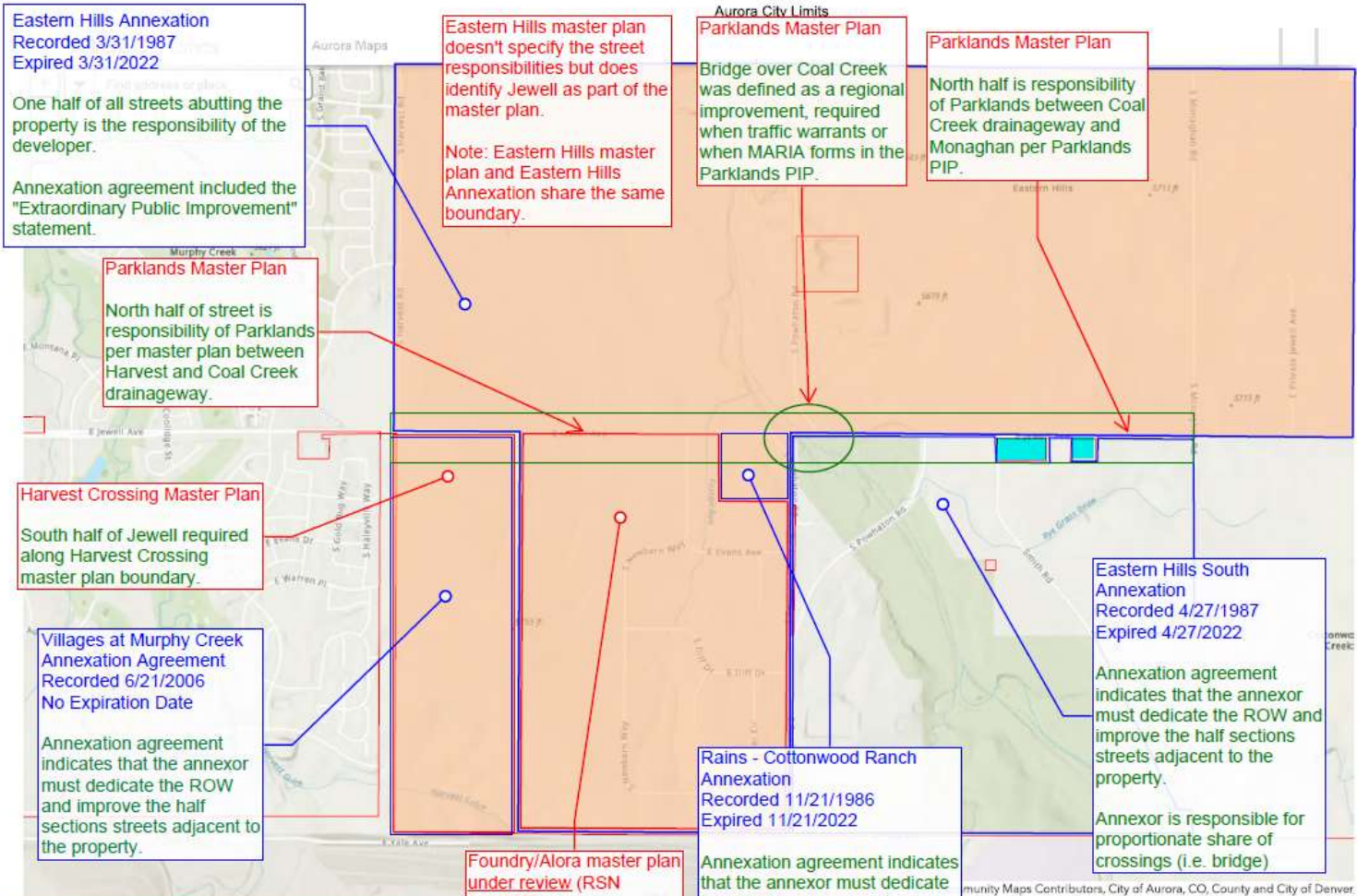
LEGEND

RED - Recorded master plan/FDP/GDP
 BLUE - Recorded annexation agreement
 PINK - City owned property
 GREEN - Obligation
 CYAN - Unannexed

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Aurora City Limits





Eastern Hills Annexation
 Recorded 3/31/1987
 Expired 3/31/2022

One half of all streets abutting the property is the responsibility of the developer.

Annexation agreement included the "Extraordinary Public Improvement" statement.

Eastern Hills master plan doesn't specify the street responsibilities but does identify Jewell as part of the master plan.

Note: Eastern Hills master plan and Eastern Hills Annexation share the same boundary.

Aurora City Limits
Parklands Master Plan

Bridge over Coal Creek was defined as a regional improvement, required when traffic warrants or when MARIA forms in the Parklands PIP.

Parklands Master Plan

North half is responsibility of Parklands between Coal Creek drainageway and Monaghan per Parklands PIP.

Parklands Master Plan

North half of street is responsibility of Parklands per master plan between Harvest and Coal Creek drainageway.

Harvest Crossing Master Plan

South half of Jewell required along Harvest Crossing master plan boundary.

Villages at Murphy Creek Annexation Agreement
 Recorded 6/21/2006
 No Expiration Date

Annexation agreement indicates that the annexor must dedicate the ROW and improve the half sections streets adjacent to the property.

Rains - Cottonwood Ranch Annexation
 Recorded 11/21/1986
 Expired 11/21/2022

Eastern Hills South Annexation
 Recorded 4/27/1987
 Expired 4/27/2022

Annexation agreement indicates that the annexor must dedicate the ROW and improve the half sections streets adjacent to the property.

Annexor is responsible for proportionate share of crossings (i.e. bridge)

Foundry/Alora master plan under review (RSN 1616875).

Indicates south half of Jewell as a responsibility between Kewaunee (Harvest Crossing) and Rains property.

Annexation agreement indicates that the annexor must dedicate the ROW and improve the half sections streets adjacent to the property.

Annexor is responsible for proportionate share of crossings (i.e. bridge)

LEGEND

RED - Recorded master plan/FDP/GDP
 BLUE - Recorded annexation agreement
 GREEN - Obligation
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Community Maps Contributors, City of Aurora, CO, County and City of Denver.

Questions

How to contact the City

- City Website with Access Aurora:
 - https://www.auroragov.org/city_hall/contact_us
- Access Aurora App on a Smart Phone
- Call Access Aurora at 303.739.7000
- Carl Harline (charline@auroragov.org)
- Josh Hoffmann (jhoffman@auroragov.org)
- Carlie Campuzano (ccampuza@auroragov.org)