Deliverance Dr./Reuben Dr.

Reuben Dr. Closure

February 6th, 2020

Tim Roberts

Erin Purcell

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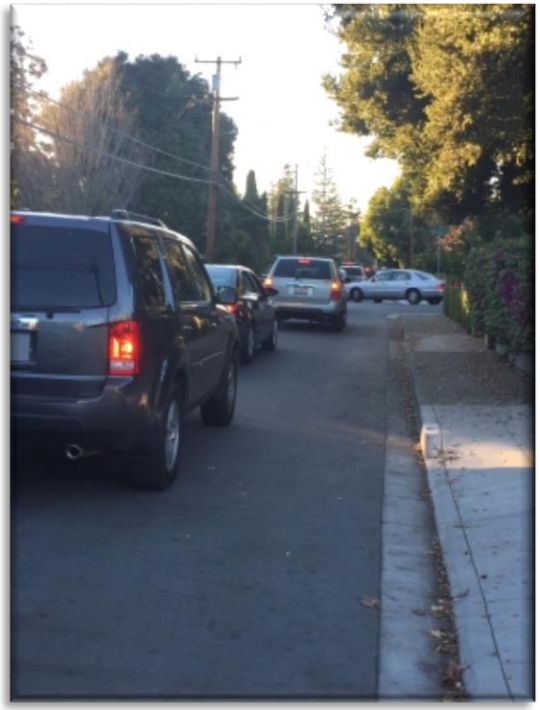
NTMP Process

- **Traffic Engineering Contact**
- **Discuss Concerns/Determine Process**
  - Does roadway meet criteria for a study?
    - Not an arterial roadway
    - Cut-Through Route
- **Traffic Condition Assessment/Decision Point**
  - 24hr Speed/Volume Data Collected on Reuben Dr. and Deliverance Dr.
  - Reuben Dr. Closure most effective measure
- **Public Process (TBD)**
  - 1st Neighborhood Meeting held April 22nd, 2019
- **Implementation Plan**
  - Collect preliminary data on Dublin Blvd. and key neighborhood roadways
- **Installation**
  - Initial 6 month "temporary closure"
- **Assessment of Effectiveness**
  - 6 Month Follow-Up Data

Neighborhood Concerns

- **Traffic Volumes**
  - Cut-Through to Avoid Dublin Blvd.



- **Traffic Safety**
  - Excessive Speeds
  - Numerous Accidents
  - Excessive Property Damage

Neighborhood Overview

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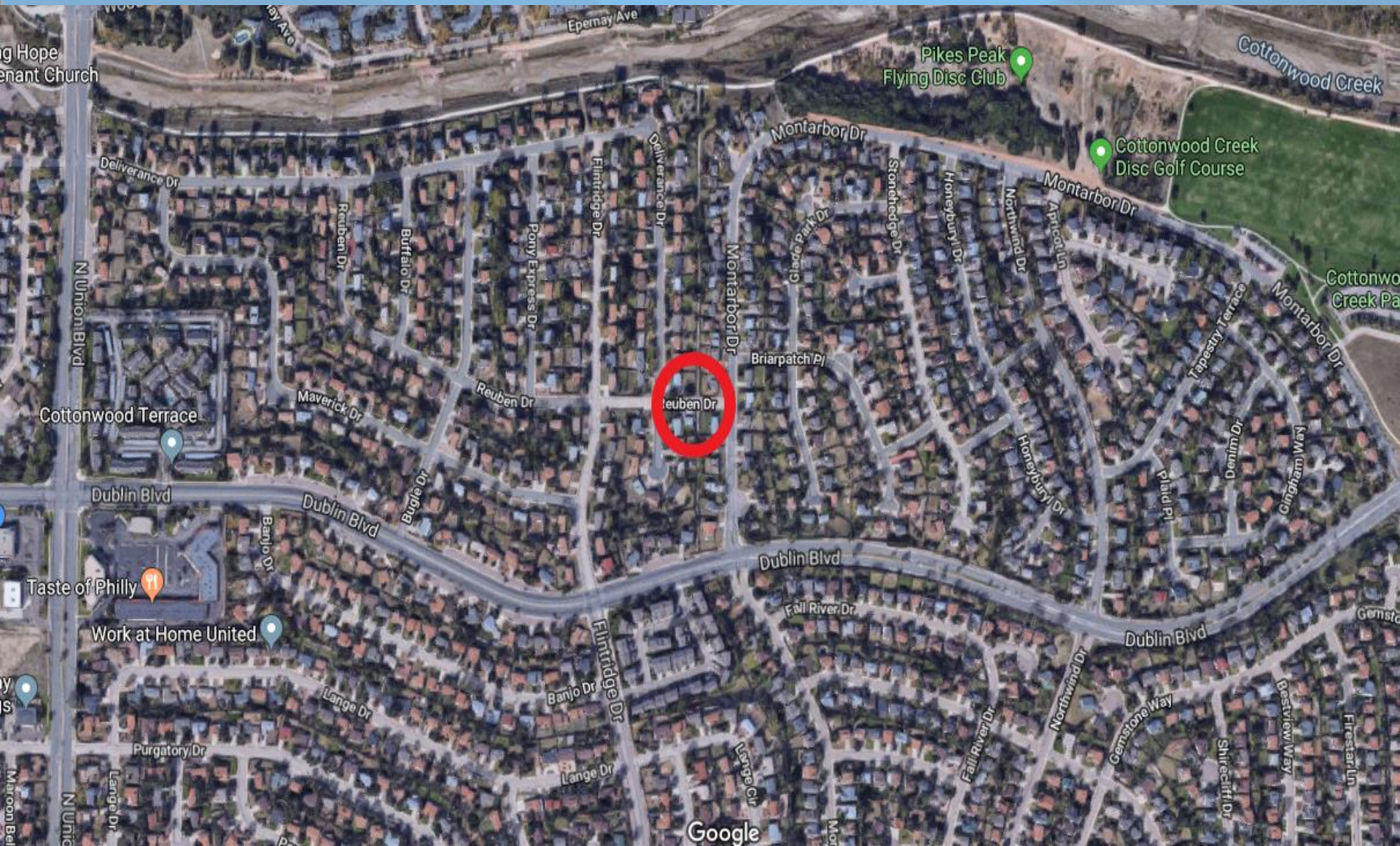

Initial Data Collection

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Reuben Dr. (Between Montarbor Dr. and Deliverance Dr.) – 10/17/2017

Roadway Width: 32' **# of Homes:** 1 Garage **Speed Limit:** 25mph

DATA TYPE	EB	WB	AVG./TOTAL
ADT Volumes	230	201	431
Average Speeds	21mph	21mph	21mph
85th Percentile Speeds	24mph	24mph	24mph

Deliverance Dr. (W of Reuben Dr.) – 4/10/2018

Roadway Width: 35' **# of Homes:** 75 Homes **Speed Limit:** 25mph

DATA TYPE	EB	WB	AVG./TOTAL
ADT Volumes	475	544	1,019
Average Speeds	30mph	30mph	30mph
85th Percentile Speeds	35mph	36mph	35mph

Qualifying Criteria

- Average speeds equal 10mph+ over posted speed limit and/or
- Volumes > 45% above expected and/or
  - Per FHWA standard of 8.2 vehicle trips per household
- Active crash history

Deliverance Dr. Analysis

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❖ Volumes

- 1,019 Vehicles Per Day (475 EB/544 WB)
- 245 Homes in Neighborhood
- 75 Homes on Deliverance Dr./Deliverance Ct.
- Volumes 65% Above Standard*

❖ Speeds

- Average Speed = 30mph
- 406 Vehicles/Day Exceeding 30mph (~40%)
  - 170/EB (Majority 3-5PM)
  - 236/WB (Majority 7-9AM)

❖ Accident History

- 7 Speed-Related Accidents Reported (5 yrs.)
- Many Unreported Hit and Run
- Damage to Parked Vehicles and Property

*Based on FHWA standard of 8.2 vehicle trips per household.

Traffic Calming Tool Box

- ❖ Increased Enforcement
- ❖ Neighborhood Entry Features
- ❖ Lane Narrowing
- ❖ Roadway Diet
- ❖ Traffic Control Signage
- ❖ Chicanes
- ❖ Roadway Medians/Islands
- ❖ Traffic Circle/Roundabout
- ❖ Roadway Dip (limited)
- ✓ Road Closure

Neighborhood Response

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- **Initial Survey of Deliverance Dr. Residents (Jan. 2019)**
  - **Total Surveyed - 97**
    - **In Favor = 84 (86%)**
    - **Opposed = 1**
    - **More Info Needed/No Participation = 8**
    - **No Contact = 4**

- **Resident Concerns (Neighborhood Meeting Apr. 2019)**
  - **Emergency Service Access**
    Coordination with CSFD – No Issues Found (5 Access Points on Dublin Blvd.)
  - **Snow Removal (Flintridge Dr.)**
    School Bus Route - Coordination with Operations and Maintenance
  - **Dublin Blvd./Union Blvd.**
    Dangerous and Congested
  - **Dublin Blvd./Flintridge Dr.**
    Poor Sight Distance vs. High Speeds on Dublin
  - **Montarbor Dr. – Neighborhood Specific Issues**

Area-Wide Data Collection

Dublin Blvd. – 9/12/2019

E of Bugle Dr.

DATA TYPE	EB	WB	AVG./TOTAL
ADT Volumes	7,236	7,224	14,460
Average Speeds	40mph	40mph	40mph
85th Percentile Speeds	45mph	44mph	45mph

E of Northwind Dr.

DATA TYPE	EB	WB	AVG./TOTAL
ADT Volumes	6,828	6,726	13,554
Average Speeds	40mph	39mph	40mph
85th Percentile Speeds	44mph	45mph	45mph

E of Montarbor Dr.

DATA TYPE	EB	WB	AVG./TOTAL
ADT Volumes	7,134	7,014	14,148
Average Speeds	37mph	39mph	38mph
85th Percentile Speeds	40mph	43mph	42mph

Area-Wide Data Collection

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Montarbor Dr. Neighborhood – 9/12/2019

Montarbor Dr. (E of Apricot Ln.)

DATA TYPE	EB	WB	AVG./TOTAL
ADT Volumes	485	640	1,125
Average Speeds	28mph	25mph	27mph
85th Percentile Speeds	36mph	32mph	34mph

Montarbor Dr. (N of Briarpatch Pl.)

DATA TYPE	EB	WB	AVG./TOTAL
ADT Volumes	321	529	850
Average Speeds	30mph	30mph	30mph
85th Percentile Speeds	36mph	36mph	36mph

Northwind Dr. (S of Shadeland St.)

DATA TYPE	EB	WB	AVG./TOTAL
ADT Volumes	33	81	114
Average Speeds	25mph	27mph	26mph
85th Percentile Speeds	35mph	33mph	34mph

Area-Wide Data Collection

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Deliverance Dr. Neighborhood – 7/16/2019

Flintridge Dr. (N of Dublin Blvd.

DATA TYPE	EB	WB	AVG./TOTAL
ADT Volumes	233	219	452
Average Speeds	28mph	26mph	27mph
85th Percentile Speeds	33mph	30mph	32mph

Bugle Dr. (N of Dublin Blvd.

DATA TYPE	EB	WB	AVG./TOTAL
ADT Volumes	262	275	537
Average Speeds	26mph	24mph	25mph
85th Percentile Speeds	32mph	30mph	31mph

Reuben Dr. (E of Bugle Dr.) 6/5/2018

DATA TYPE	EB	WB	AVG./TOTAL
ADT Volumes	94	82	176
Average Speeds	22mph	22mph	22mph
85th Percentile Speeds	27mph	25mph	26mph

Crash History (Area-Wide)

- **Dublin Blvd./Union Blvd.**
  - Total = 64
  - WB Right Turn = 4
  - SB Left Turn = 6
- **Dublin Blvd./Flintridge Dr.**
  - Total = 26
  - Ran Red Light = 6
  - Speed Related = 2
- **Dublin Blvd./Northwind Dr.**
  - Total = 14
  - SB Left Turn = 3
  - SB Right Turn = 0
- **Union Blvd./Deliverance Dr.**
  - Total = 17
  - SB = 3
- **Dublin Blvd./Montarbor Dr.**
  - Total = 19
  - SB = 2
- **Montarbor Dr. (Roadway)**
  - Total = 4
  - Speed Related = 2

Implementation Plan

- **Gather Relevant Preliminary Data**
  - **24HR Speed/Volume Data:**
    Dublin Blvd., Flintridge Dr., Bugle Dr., Montarbor Dr., Northwind Dr.
  - **Turning Movement Counts (AM/PM Peak Hour):**
    Dublin Blvd./Union Blvd.

- **Coordinate with Operations & Maintenance**
  - **Flintridge Dr. Snow Removal**

- **Install Initial "Temporary" Closure (6 mos.)**
  - **Type III Barricades Across Reuben Dr.**
    Location at Drainage Culvert

- **Analyze Evaluation Period Data**

- **Coordinate with Traffic Signals Dept.**
  - **Signal Timing/Operations Improvements Where Needed**
    Dublin Blvd./Union Blvd., Dublin Blvd./Flintridge Dr., Dublin Blvd./Montarbor Dr.

- **Determine Other Necessary Measures**

Permanent Closure

Traffic Engineering Proposals:

- Install Curb/Gutter with Xeriscape

Resident Suggestions:

- Concrete Bollards
- "Make it ugly!"

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