

UPPER VILLAGE TRAFFIC STUDY PRESENTATION VILLAGE OF CROTON-ON-HUDSON SEPTEMBER 23, 2019



7 SKYLINE DRIVE, SUITE 120
HAWTHORNE, NEW YORK 10532
(914) 592 – 4040
WWW.PDERESULTS.COM

GRAND STREET

OLD POST ROAD S

EXISTING DUMMY SIGNAL

SCALE: 1" = 100'

Provident
design engineering

UPPER CROTON VILLAGE
CROTON, NY

AERIAL

[illegible][illegible]UPPER CROTON VILLAGE
Croton, NY[illegible]

AERIAL

Serial	Task No.	Start Date	End Date	Duration	Priority	Status	Assigned To	Comments
1	1	01/01/2023	01/01/2023	1	High	Completed	John Doe	Task completed successfully.
2	2	01/02/2023	01/02/2023	1	Medium	In Progress	Jane Smith	Task is currently in progress.
3	3	01/03/2023	01/03/2023	1	Low	Pending	John Doe	Task is pending approval.
4	4	01/04/2023	01/04/2023	1	High	Not Started	Jane Smith	Task has not yet started.
5	5	01/05/2023	01/05/2023	1	Medium	On Hold	John Doe	Task is on hold due to resource availability.

Study Methodology

Traffic Counts performed during following time periods:

- Weekday AM Commuter Period
- Weekday Midday Period
- Weekday PM Commuter Period
- Saturday Midday Period
- Sunday Midday Period

Intersection Capacity Analysis run for three scenarios:

- Signalized intersection control
- Roundabout
- All-Way Stop Control

Concept Plans prepared per analysis results and discussion with Village Officials

Level of Service Results

OVERALL LEVELS OF SERVICE - GRAND STREET & OLD POST ROAD			
TIME PERIOD	2019 EXISTING	2019 UNSIGNALIZED	2019 ROUNDBABOUT
	LOS DELAY (sec)	LOS DELAY (sec)	LOS DELAY (sec)
PEAK AM HOUR (7:30 - 8:30)	B 16.2	B 10.3	A 6.4
PEAK MIDDAY HOUR (12:00 - 1:00)	B 12.7	A 8.5	A 4.9
PEAK PM HOUR (5:15 - 6:15)	B 14.1	A 9.4	A 5.7
PEAK SAT HOUR (11:45 - 12:45)	B 14.6	B 10.6	A 6.4
PEAK SUN HOUR (11:45 - 12:45)	B 14.5	A 9.5	A 5.9

Traffic Simulation Models

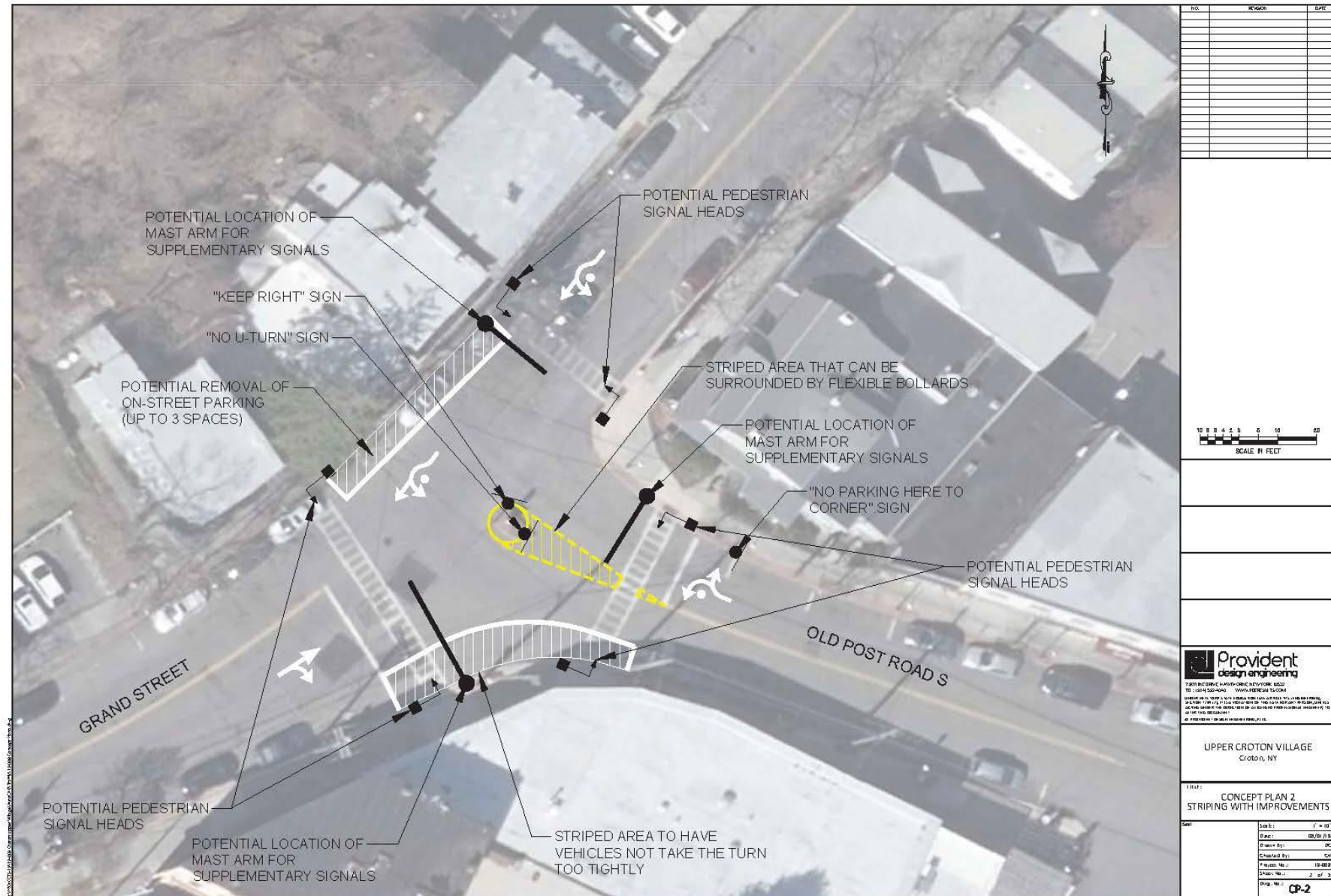
Concept Plan No. 1 – Striping Modifications

- Striping Improvements
- Maintain “Dummy” Signal As-Is
- Non-standard Signal Condition
Safety Concern
- Loss of up to 3 Parking Spaces
- \$10,000 to \$20,000



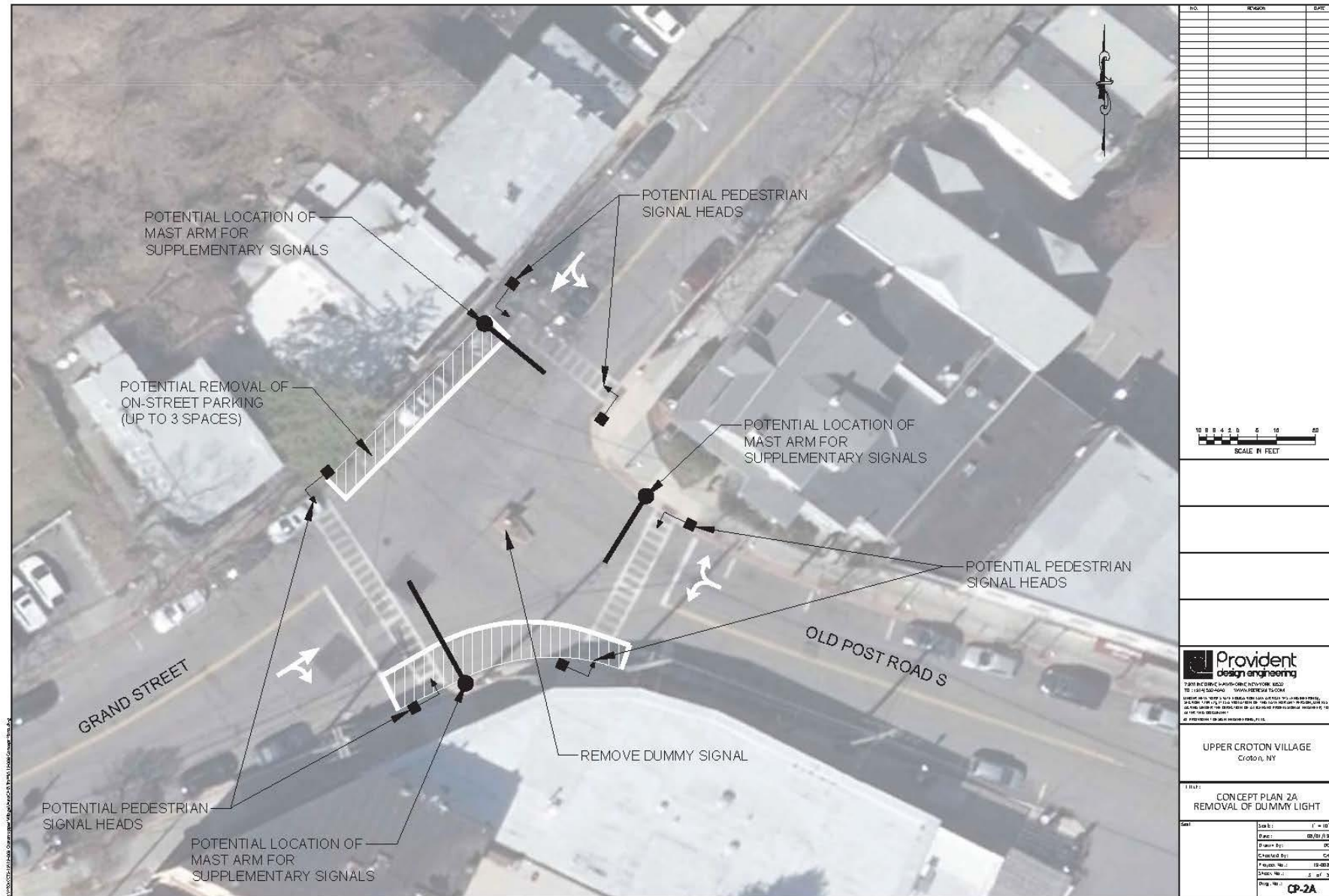
Concept Plan No. 2 – Striping with Traffic Signal Improvement

- Striping Improvements
- Upgraded Signal System
- Maintain “Dummy” Signal As-Is
- Pedestrian Signal Heads
- Loss of up to 3 Parking Spaces
- \$150,000 to \$250,000



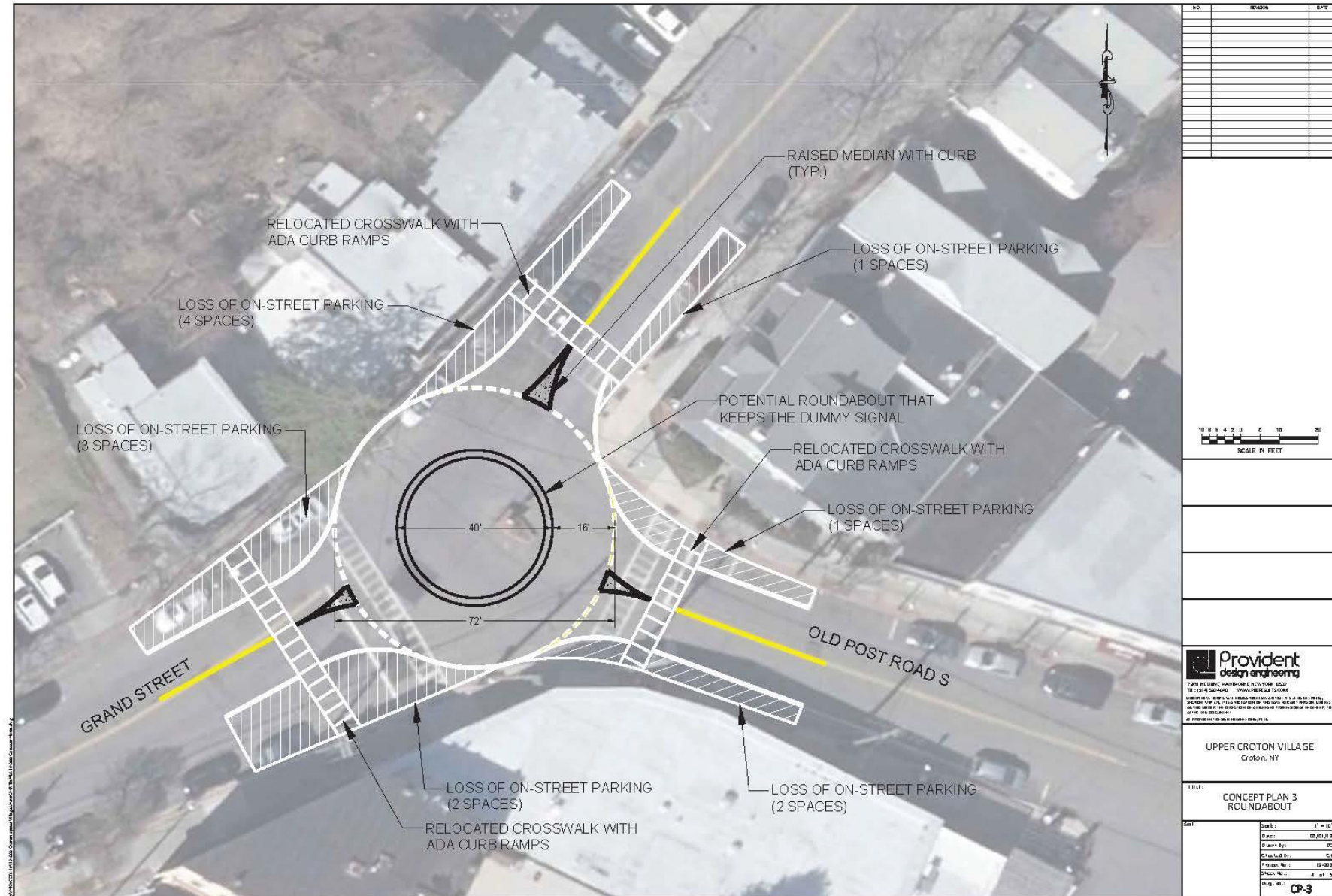
Concept Plan No. 2A – Removal of “Dummy” Signal

- Striping Improvements
- Upgraded Signal System
- Remove “Dummy” Signal
- Pedestrian Signal Heads
- Loss of up to 3 Parking Spaces
- \$200,000 to \$300,000



Concept Plan No. 3 - Roundabout

- Install Roundabout
- Traffic Meters Itself
- Low Speed Movements
- “Dummy” Maintained But Dark
- Crosswalks Away from Intersection
- Loss of up to 13 Parking Spaces
- \$500,000 to \$750,000



Concept Plan No. 4 – All-Way Stop Control (Preferred Alternative)

- Striping Improvements
- All-Way Stop Control
- Maintain “Dummy” Signal Flash Red
- All Traffic Must Stop
- Loss of up to 1 Parking Space
- \$10,000 to \$25,000



THANK YOU

Carlito Holt – Managing Partner/Senior Project Manager

Phone: 914.367.0204

Email: cholt@pderesults.com

Danny Cuya – Engineer

Phone: 914.367.0020

Email: dcuya@pderesults.com