

Appendix J: 10% Plans and Cost Estimate



STORY-KEYES CORRIDOR COMPLETE STREETS STUDY

10% CONCEPT DESIGN PLANS

GENERAL NOTES:

1. THIS PLAN SET IS DRAWN BASED ON CURB LINE DATA, PROPERTY LINE DATA AND AERIAL IMAGERY PROVIDED BY THE CITY OF SAN JOSE. THE CURB LINE DATA AND PROPERTY LINE DATA WAS MODIFIED IN LOCATIONS WHERE IT DIFFERED FROM THE AERIAL IMAGERY OR NOTES MADE DURING THE WALK AUDIT. IN FINAL DESIGN, A THOROUGH SURVEY WOULD BE REQUIRED TO DETERMINE THE DETAILED LOCATION OF CURBS AND PROPERTY LINES.
2. THIS PLAN SET REPRESENTS THE 10% CONCEPTUAL DESIGN OF THE PREFERRED ALTERNATIVE FOR THE STORY-KEYES CORRIDOR, INCLUDING PROPOSED CHANGES TO CURB LINE, STRIPING, AND STREET TREES AND IDENTIFICATION OF OPPORTUNITY AREAS FOR ADDITIONAL STREETScape ENHANCEMENTS.
3. TURNING RADII TO BE REFINED IN FINAL DESIGN WITH PROPER DESIGN VEHICLES PER THE SAN JOSE COMPLETE STREETS DESIGN GUIDELINES, CONSIDERING GENERAL PLAN STREET TYPOLOGY AND TRUCK ROUTE STATUS. ON STORY ROAD, DESIGN ASSUMES GRAND BOULEVARD TYPOLOGY.
4. FINAL BIKEWAY STRIPING AND USE OF GREEN PAINT SHOULD INCORPORATE SAN JOSE BIKE LANE DESIGN GUIDELINES AND MUTCD GUIDANCE. NOTE, THAT CLASS IV GUIDANCE MAY NOT BE PROVIDED BY THESE DOCUMENTS. RESOLVE CLASS IV STRIPING AND USE OF GREEN IN THE 35% DESIGN PHASE.
5. DETAILS AND LOCATIONS OF WAYFINDING SIGNS, LIGHTING, BICYCLE RACKS, BUS STOP AMENITIES, STREET FURNISHINGS, CURB RAMPS, AND SIMILAR DETAILS TO BE RESOLVED IN FUTURE DESIGN PHASES WITH ADDITIONAL TECHNICAL STUDY (E.G. PHOTOMETRIC STUDIES, SURVEY, ETC) AND COMMUNITY ENGAGEMENT.
6. IN FINAL DESIGN, SOME EXISTING DRIVEWAYS MAY REQUIRE CONSOLIDATION OR ELIMINATION FOR SAFETY AND SIGHT DISTANCE.
7. FINAL TREE PLACEMENT TO BE REFINED DURING 35% DESIGN.

LEGEND

CURB - EXISTING	BUS STOP - RECONFIGURED IN EXISTING LOCATION	PROPOSED STREET TREE IN NEW TREE WELL	EXISTING STREET TREE IN TREE WELL	OPPORTUNITY FOR LANDSCAPING (MAY INCLUDE SOME PAVING)	OPPORTUNITY FOR RAISED HARDSCAPE/ LANDSCAPE TREATMENT OF BIKEWAY BUFFER (WHERE BUFFER >=4')
CURB - PROPOSED	BUS STOP - RECONFIGURED IN NEW LOCATION	PROPOSED STREET TREE IN EXISTING PLANTER STRIP	EXISTING STREET TREE IN PLANTER STRIP	RAISED PAVED BUFFER ALONG PARKING	OPPORTUNITY FOR RAISED HARDSCAPE TREATMENT OF BIKEWAY BUFFER (WHERE BUFFER <4')
RIGHT OF WAY - EXISTING	BUS STOP - REMOVED	PROPOSED STREET TREE IN EXISTING TREE WELL	UPGRADE EXISTING SIGNAL WITH SEPARATE PHASE FOR BIKE/PEDESTRIAN FROM RIGHT TURNS. ADD TRANSIT SIGNAL PRIORITY. REQUIRES OPERATIONAL ANALYSIS	MAJOR OPPORTUNITY AREA FOR LANDSCAPE/ HARDSCAPE TREATMENTS	OPPORTUNITY FOR GREEN INFRASTRUCTURE AND/OR LANDSCAPING AND STREET TREE PLANTING (FEASIBILITY AND EXTENT TO BE DETERMINED DURING LATER DESIGN STAGES)
RIGHT OF WAY - PROPOSED	BUS STOP ISLAND - PROPOSED				
SIDEWALK EASEMENT NEEDED					

STORY-KEYES CORRIDOR
COMPLETE STREETS STUDY

10% Concept Design Plans

CONCEPTUAL - NOT FOR CONSTRUCTION
DETAILED ENGINEERING ANALYSIS AND DESIGN REQUIRED

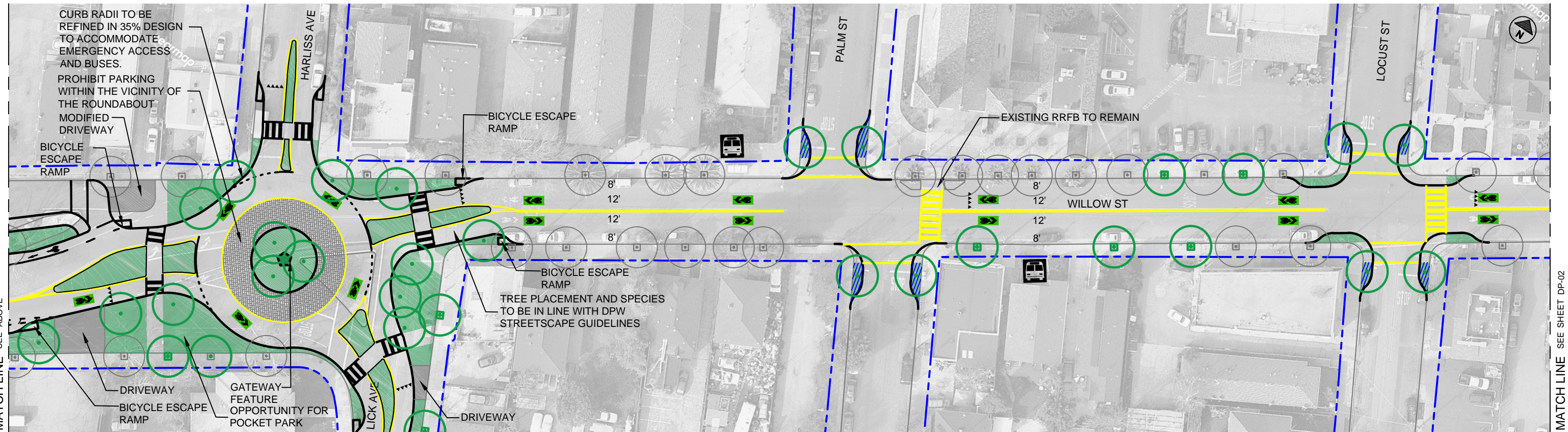
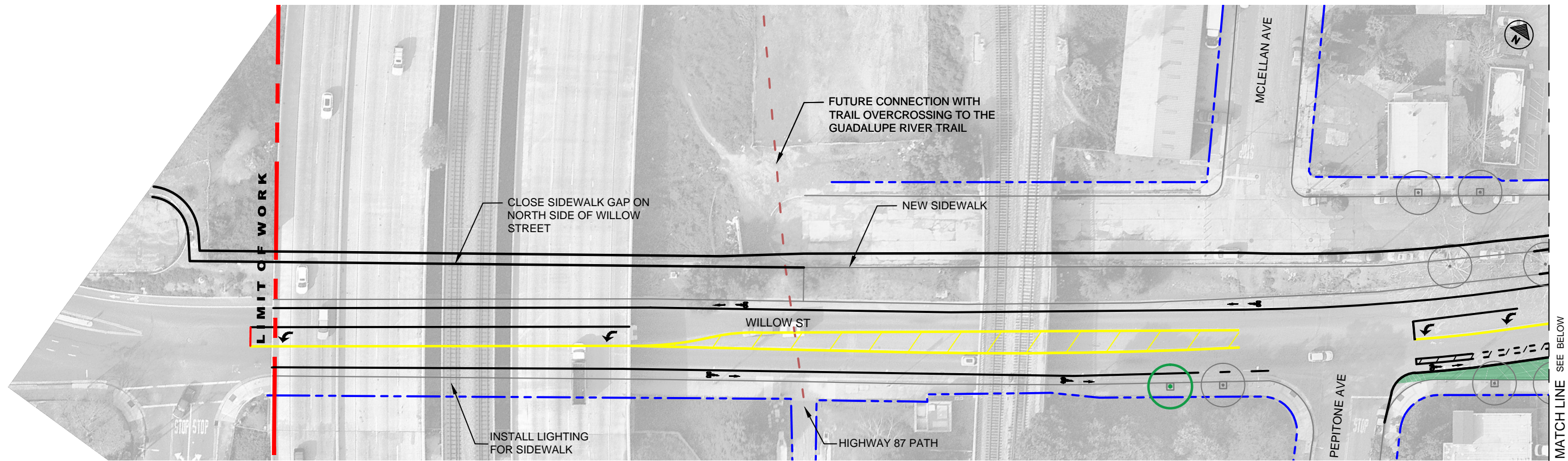
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Story-Keyes 10% Design_v2 - 02ds

DATE
02/23/2018

SCALE
1" = 60' (Half-Size)

VTA PROJECT NO.

SHEET NO.
DP-00



MATCH LINE SEE ABOVE

MATCH LINE SEE SHEET DP-02

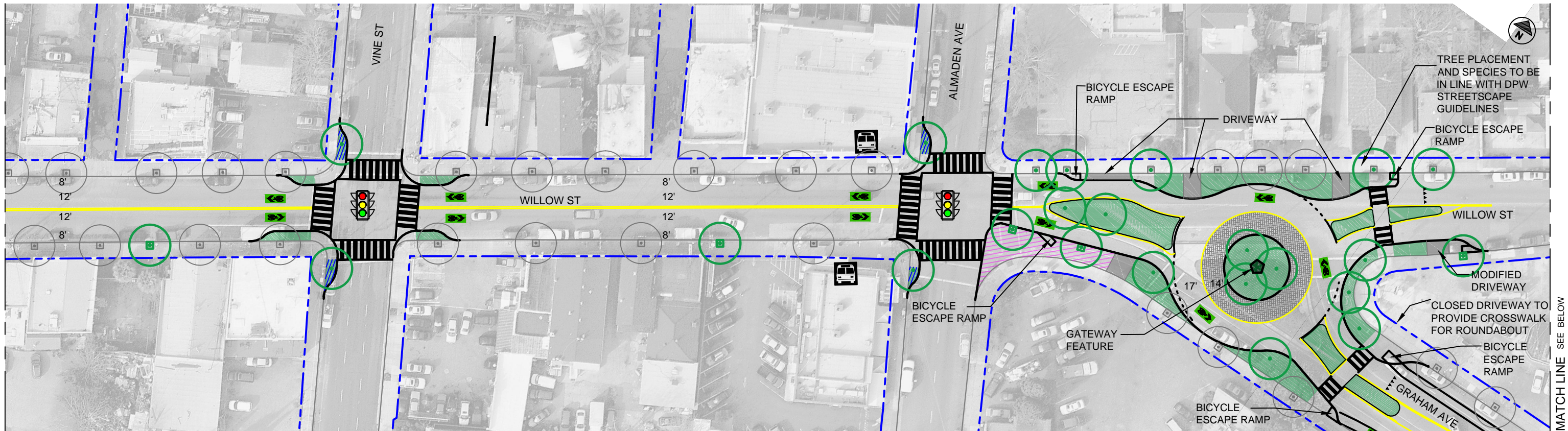
LEGEND	
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	CURB - PROPOSED
	RIGHT OF WAY - EXISTING
	RIGHT OF WAY - PROPOSED
	SIDEWALK EASEMENT NEEDED
	BUS STOP - RECONFIGURED IN EXISTING LOCATION
	BUS STOP - RECONFIGURED IN NEW LOCATION
	BUS STOP - REMOVED
	BUS STOP ISLAND - PROPOSED
	PROPOSED STREET TREE IN NEW TREE WELL
	PROPOSED STREET TREE IN EXISTING PLANTER STRIP
	PROPOSED STREET TREE IN EXISTING TREE WELL
	EXISTING STREET TREE IN TREE WELL
	EXISTING STREET TREE IN PLANTER STRIP
	EXISTING SIGNAL TO REMAIN
	OPPORTUNITY FOR LANDSCAPING (MAY INCLUDE SOME PAVING)
	RAISED PAVED BUFFER ALONG PARKING
	MAJOR OPPORTUNITY AREA FOR LANDSCAPE/HARDSCAPE TREATMENTS
	OPPORTUNITY FOR RAISED HARDSCAPE/ LANDSCAPE TREATMENT OF BIKEWAY BUFFER (WHERE BUFFER >=4')
	OPPORTUNITY FOR RAISED HARDSCAPE TREATMENT OF BIKEWAY BUFFER (WHERE BUFFER <4')
	OPPORTUNITY FOR GREEN INFRASTRUCTURE AND/OR LANDSCAPING AND STREET TREE PLANTING (FEASIBILITY AND EXTENT TO BE DETERMINED DURING LATER DESIGN STAGES)

**STORY-KEYS CORRIDOR
COMPLETE STREETS STUDY**

10% Concept Design Plans
CONCEPTUAL - NOT FOR CONSTRUCTION
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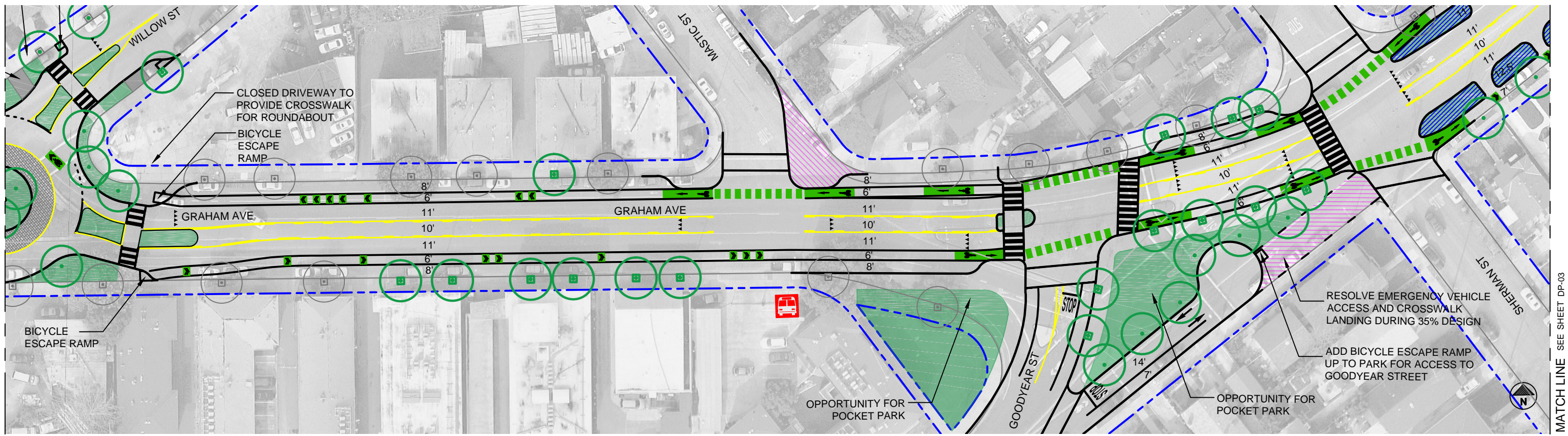
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DATE 02/23/2018	SCALE 1" = 60' (Half-Size)
VTA PROJECT NO.	
SHEET NO. DP-01	

MATCH LINE SEE SHEET DP-01



MATCH LINE SEE BELOW

MATCH LINE SEE ABOVE



MATCH LINE SEE SHEET DP-03

<p>LEGEND</p> <p>— CURB - EXISTING</p> <p>— CURB - PROPOSED</p> <p>--- RIGHT OF WAY - EXISTING</p> <p>--- RIGHT OF WAY - PROPOSED</p> <p>XXXX SIDEWALK EASEMENT NEEDED</p> <p> BUS STOP - RECONFIGURED IN EXISTING LOCATION</p> <p> BUS STOP - RECONFIGURED IN NEW LOCATION</p> <p> BUS STOP - REMOVED</p> <p> BUS STOP ISLAND - PROPOSED</p> <p> PROPOSED STREET TREE IN NEW TREE WELL</p> <p> PROPOSED STREET TREE IN EXISTING PLANTER STRIP</p> <p> PROPOSED STREET TREE IN EXISTING TREE WELL</p> <p> EXISTING STREET TREE IN TREE WELL</p> <p> EXISTING STREET TREE IN PLANTER STRIP</p> <p> EXISTING SIGNAL TO REMAIN</p> <p> OPPORTUNITY FOR LANDSCAPING (MAY INCLUDE SOME PAVING)</p> <p> RAISED PAVED BUFFER ALONG PARKING</p> <p> MAJOR OPPORTUNITY AREA FOR LANDSCAPE/HARDSCAPE TREATMENTS</p>	<p> OPPORTUNITY FOR RAISED HARDSCAPE/ LANDSCAPE TREATMENT OF BIKEWAY BUFFER (WHERE BUFFER >=4')</p> <p> OPPORTUNITY FOR RAISED HARDSCAPE TREATMENT OF BIKEWAY BUFFER (WHERE BUFFER <4')</p> <p> OPPORTUNITY FOR GREEN INFRASTRUCTURE AND/OR LANDSCAPING AND STREET TREE PLANTING (FEASIBILITY AND EXTENT TO BE DETERMINED DURING LATER DESIGN STAGES)</p>
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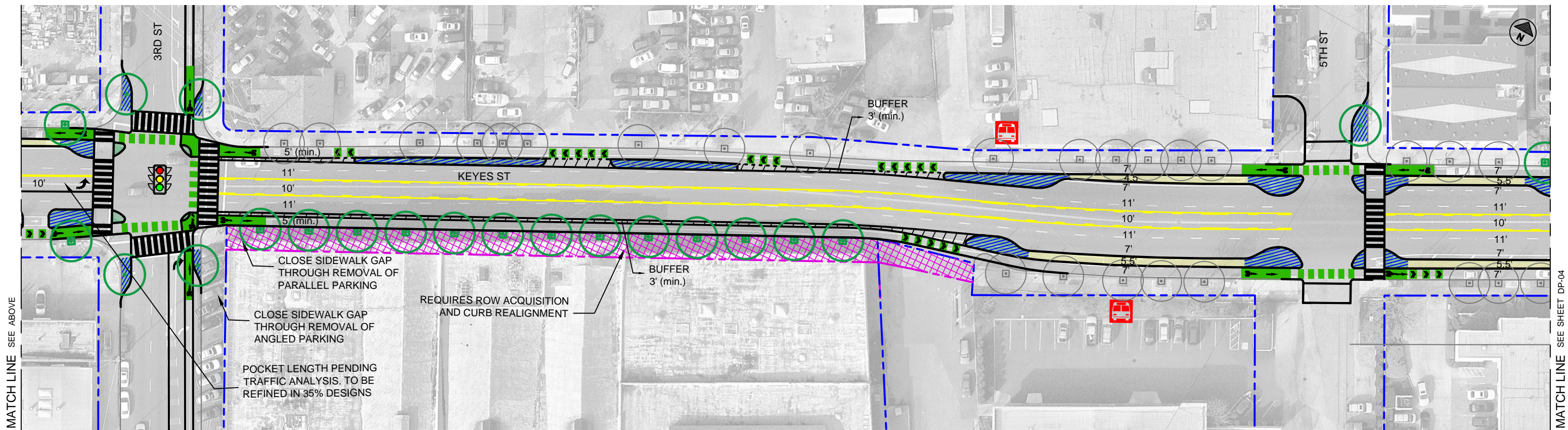
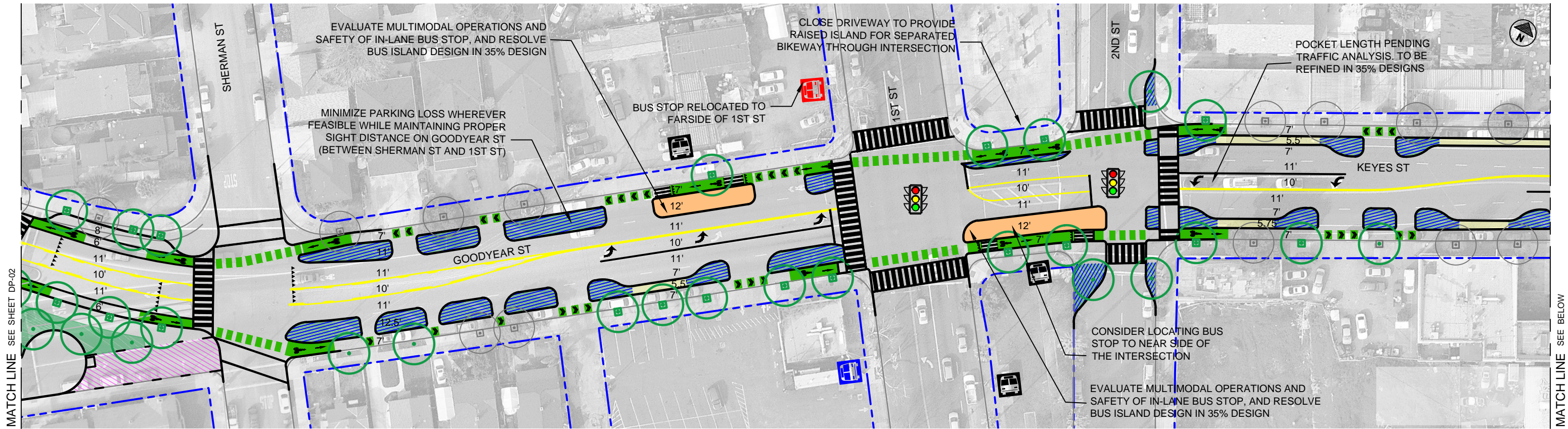
STORY-KEYS CORRIDOR COMPLETE STREETS STUDY

10% Concept Design Plans

CONCEPTUAL - NOT FOR CONSTRUCTION

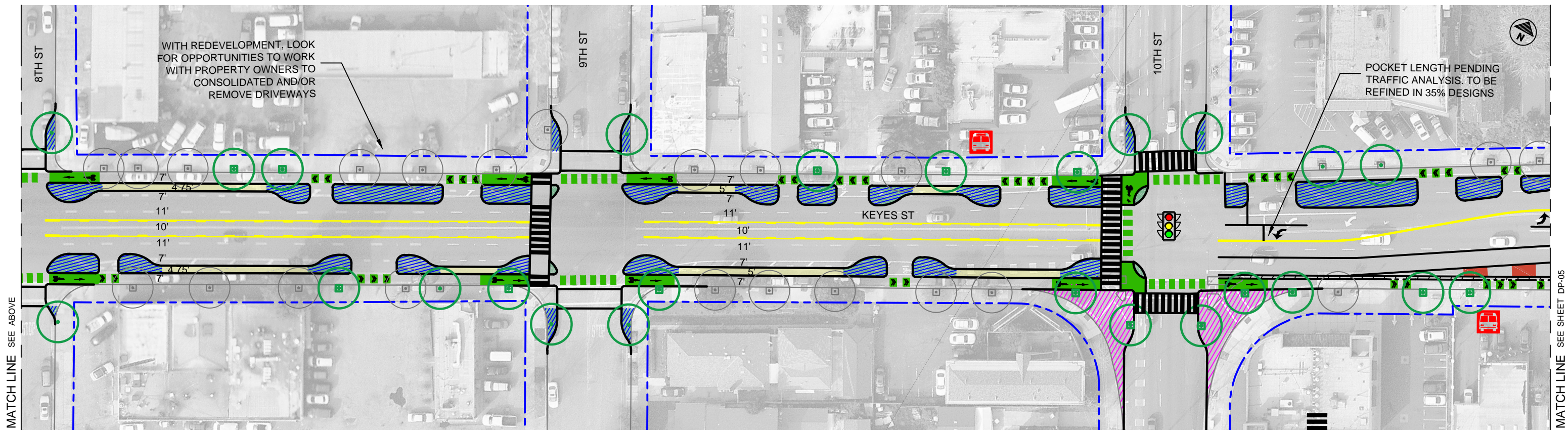
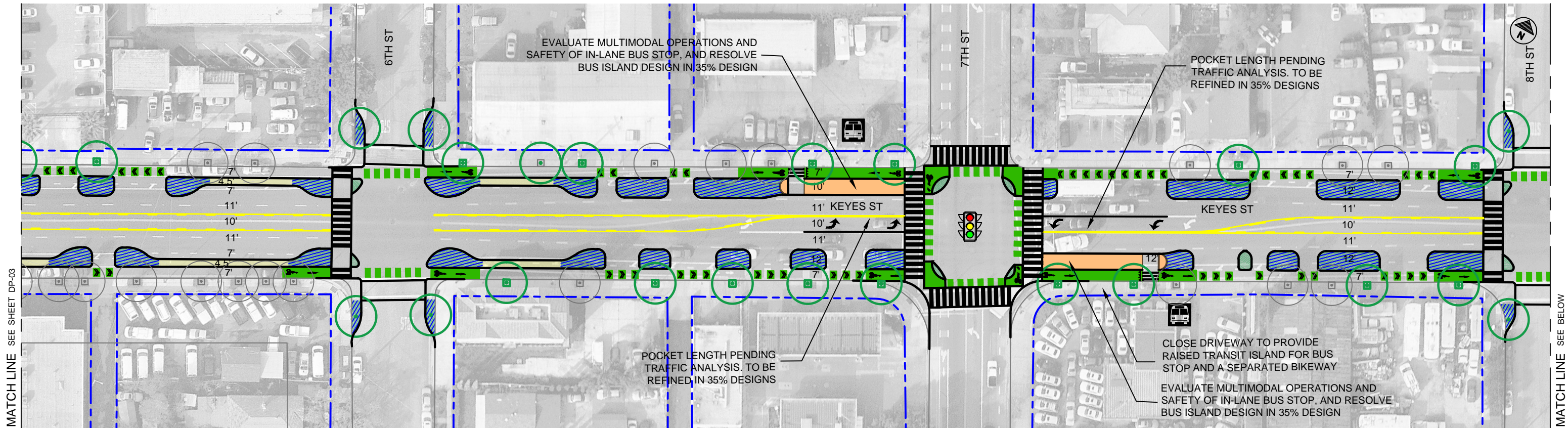
DETAILED ENGINEERING ANALYSIS AND DESIGN REQUIRED

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VTA PROJECT NO.	
SHEET NO.	DP-02



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STORY-KEYES CORRIDOR COMPLETE STREETS STUDY 10% Concept Design Plans CONCEPTUAL - NOT FOR CONSTRUCTION DETAILED ENGINEERING ANALYSIS AND DESIGN REQUIRED										CADD FILENAME Story-Keys 10% Design_v2 - 02.ds DATE 02/23/2018 VTA PROJECT NO.		SCALE 1" = 60' (Half-Size) 0' 30' 60' SHEET NO. DP-03	

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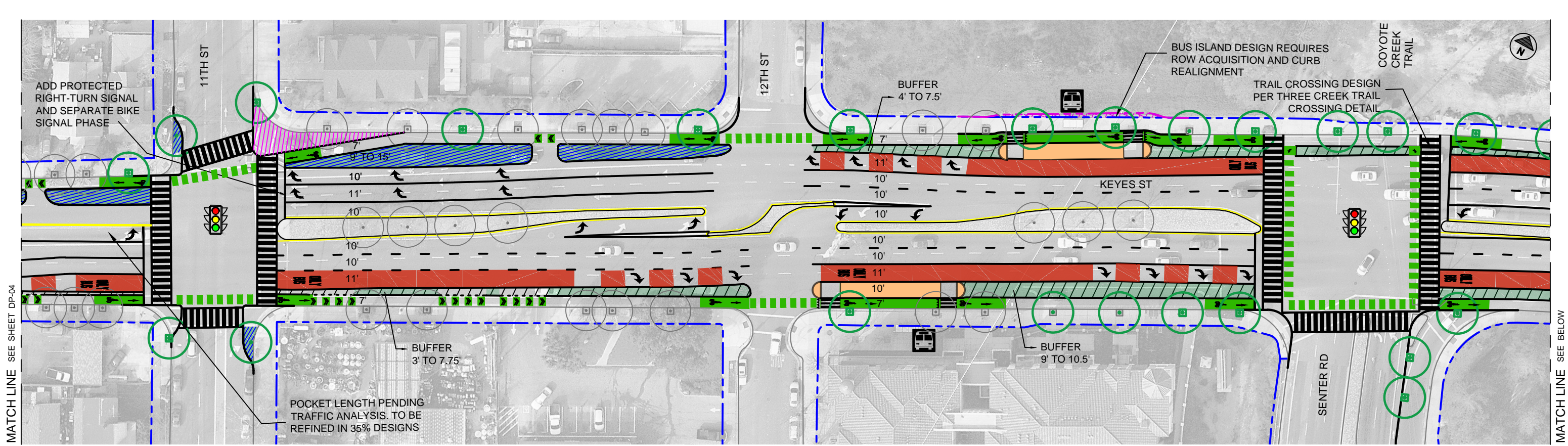


LEGEND					
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	CURB - PROPOSED		BUS STOP - RECONFIGURED IN NEW LOCATION		PROPOSED STREET TREE IN EXISTING PLANTER STRIP
	RIGHT OF WAY - EXISTING		BUS STOP - REMOVED		PROPOSED STREET TREE IN EXISTING TREE WELL
	RIGHT OF WAY - PROPOSED		BUS STOP ISLAND - PROPOSED		UPGRADE EXISTING SIGNAL WITH TRANSIT SIGNAL PRIORITY
	SIDEWALK EASEMENT NEEDED		OPPORTUNITY FOR LANDSCAPING (MAY INCLUDE SOME PAVING)		OPPORTUNITY FOR RAISED HARDSCAPE/ LANDSCAPE TREATMENT OF BIKEWAY BUFFER (WHERE BUFFER >=4')
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STORY-KEYES CORRIDOR COMPLETE STREETS STUDY

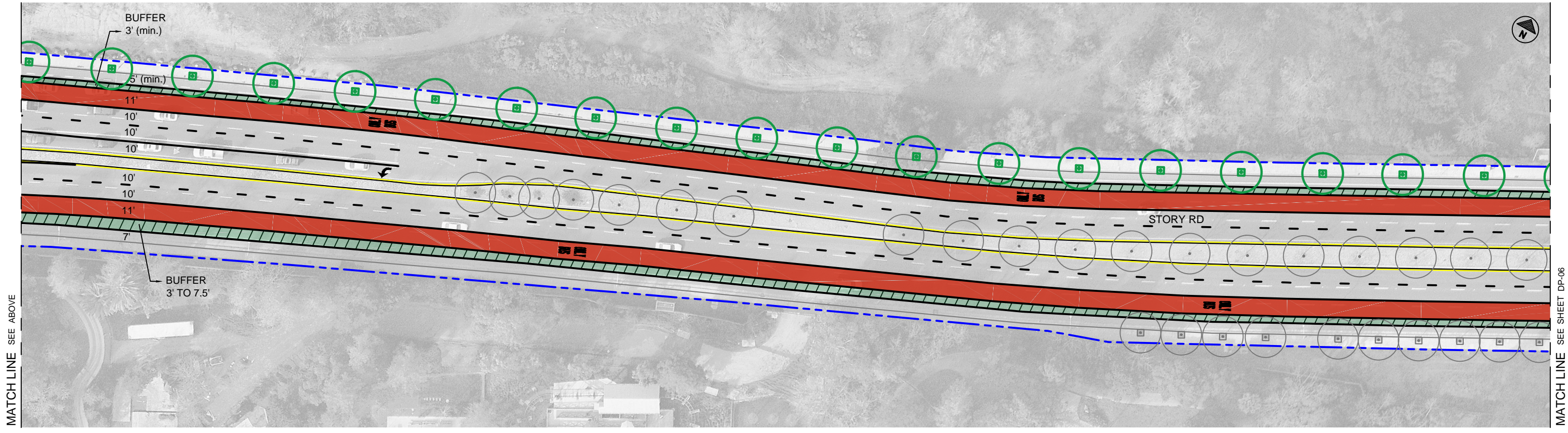
10% Concept Design Plans
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DATE 02/23/2018	SCALE 1" = 60' (Half-Size)
VTA PROJECT NO.	SHEET NO. DP-04



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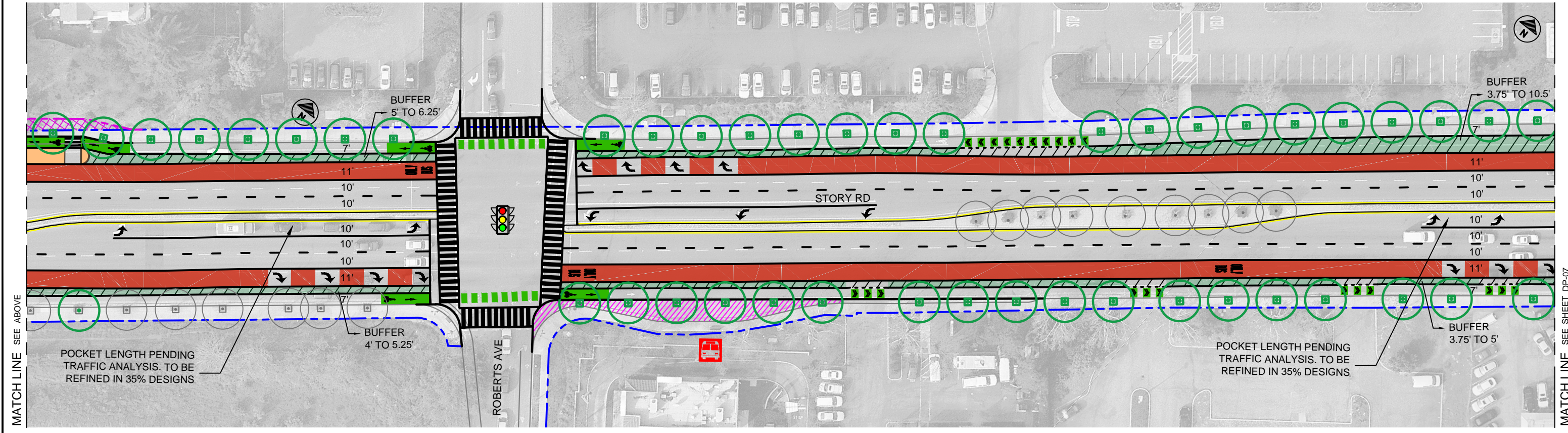
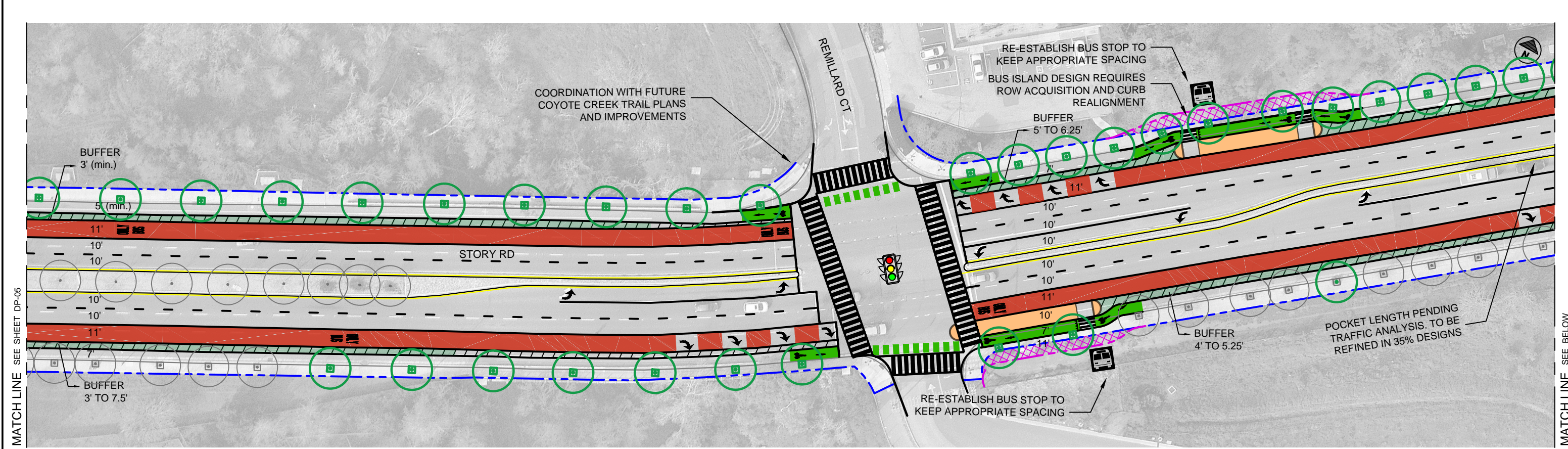


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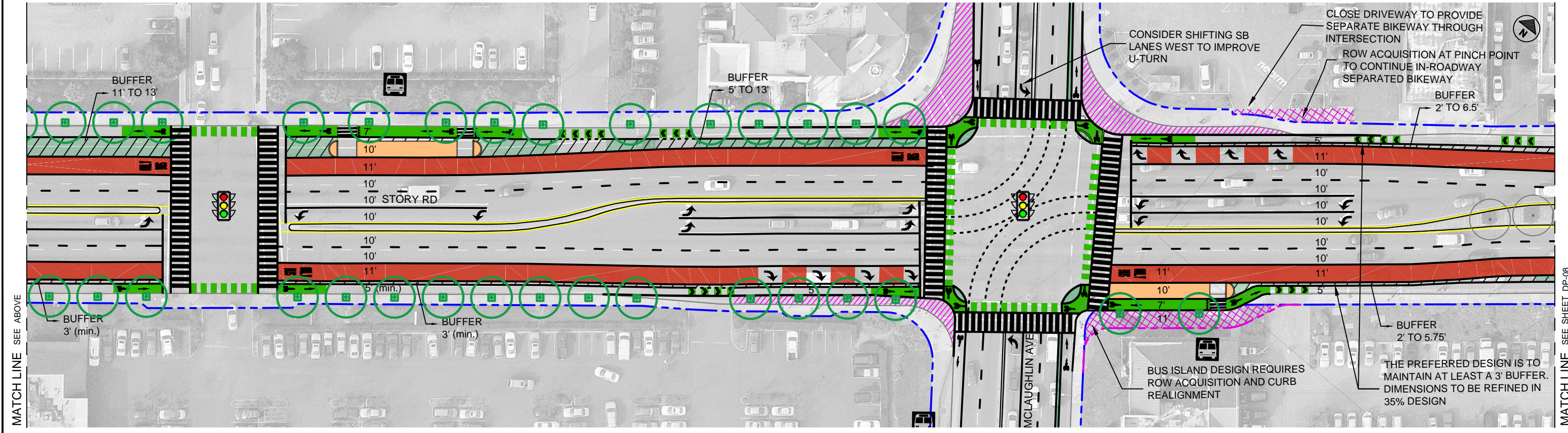
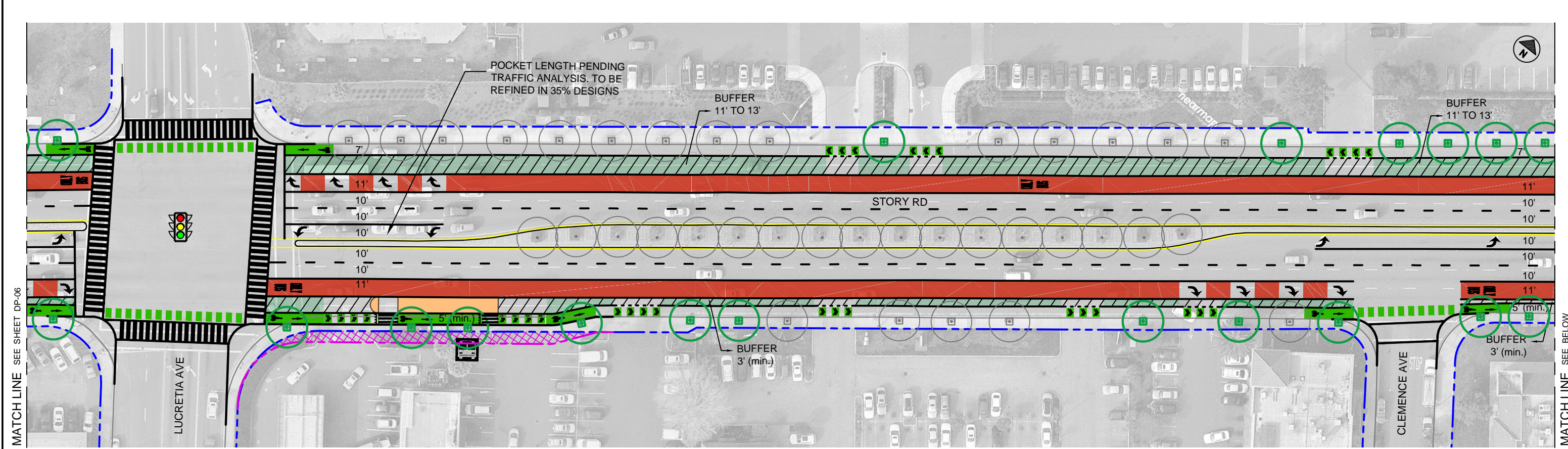
LEGEND CURB - EXISTING CURB - PROPOSED RIGHT OF WAY - EXISTING RIGHT OF WAY - PROPOSED SIDEWALK EASEMENT NEEDED		BUS STOP - RECONFIGURED IN EXISTING LOCATION BUS STOP - RECONFIGURED IN NEW LOCATION BUS STOP - REMOVED BUS STOP ISLAND - PROPOSED		PROPOSED STREET TREE IN NEW TREE WELL PROPOSED STREET TREE IN EXISTING PLANTER STRIP PROPOSED STREET TREE IN EXISTING TREE WELL		EXISTING STREET TREE IN TREE WELL EXISTING STREET TREE IN PLANTER STRIP UPGRADE EXISTING SIGNAL WITH SEPARATE PHASE FOR BIKE/PEDESTRIAN FROM RIGHT TURNS. ADD TRANSIT SIGNAL PRIORITY. REQUIRES OPERATIONAL ANALYSIS		OPPORTUNITY FOR LANDSCAPING (MAY INCLUDE SOME PAVING) RAISED PAVED BUFFER ALONG PARKING MAJOR OPPORTUNITY AREA FOR LANDSCAPE/HARDSCAPE TREATMENTS		OPPORTUNITY FOR RAISED HARDSCAPE/ LANDSCAPE TREATMENT OF BIKEWAY BUFFER (WHERE BUFFER >=4') OPPORTUNITY FOR RAISED HARDSCAPE TREATMENT OF BIKEWAY BUFFER (WHERE BUFFER <4') OPPORTUNITY FOR GREEN INFRASTRUCTURE AND/OR LANDSCAPING AND STREET TREE PLANTING (FEASIBILITY AND EXTENT TO BE DETERMINED DURING LATER DESIGN STAGES)		STORY-KEYES CORRIDOR COMPLETE STREETS STUDY 10% Concept Design Plans CONCEPTUAL - NOT FOR CONSTRUCTION DETAILED ENGINEERING ANALYSIS AND DESIGN REQUIRED		CADD FILENAME Story-Keys 10% Design_v2 - 02.ds DATE 02/23/2018 VTA PROJECT NO.		SCALE 1" = 60' (Half-Size) 0' 30' 60' SHEET NO. DP-05	
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LEGEND CURB - EXISTING CURB - PROPOSED RIGHT OF WAY - EXISTING RIGHT OF WAY - PROPOSED SIDEWALK EASEMENT NEEDED		BUS STOP - RECONFIGURED IN EXISTING LOCATION BUS STOP - RECONFIGURED IN NEW LOCATION BUS STOP - REMOVED BUS STOP ISLAND - PROPOSED		PROPOSED STREET TREE IN NEW TREE WELL PROPOSED STREET TREE IN EXISTING PLANTER STRIP PROPOSED STREET TREE IN EXISTING TREE WELL		EXISTING STREET TREE IN TREE WELL EXISTING STREET TREE IN PLANTER STRIP UPGRADE EXISTING SIGNAL WITH SEPARATE PHASE FOR BIKE/PEDESTRIAN FROM RIGHT TURNS. ADD TRANSIT SIGNAL PRIORITY. REQUIRES OPERATIONAL ANALYSIS		OPPORTUNITY FOR LANDSCAPING (MAY INCLUDE SOME PAVING) RAISED PAVED BUFFER ALONG PARKING MAJOR OPPORTUNITY AREA FOR LANDSCAPE/HARDSCAPE TREATMENTS		OPPORTUNITY FOR RAISED HARDSCAPE/ LANDSCAPE TREATMENT OF BIKEWAY BUFFER (WHERE BUFFER >=4') OPPORTUNITY FOR RAISED HARDSCAPE TREATMENT OF BIKEWAY BUFFER (WHERE BUFFER <4') OPPORTUNITY FOR GREEN INFRASTRUCTURE AND/OR LANDSCAPING AND STREET TREE PLANTING (FEASIBILITY AND EXTENT TO BE DETERMINED DURING LATER DESIGN STAGES)		STORY-KEYES CORRIDOR COMPLETE STREETS STUDY 10% Concept Design Plans CONCEPTUAL - NOT FOR CONSTRUCTION DETAILED ENGINEERING ANALYSIS AND DESIGN REQUIRED		CADD FILENAME Story-Keys 10% Design_v2 - 02ds DATE 02/23/2018 SCALE 1" = 60' (Half-Size) 0' 30' 60' VTA PROJECT NO. SHEET NO. DP-06	
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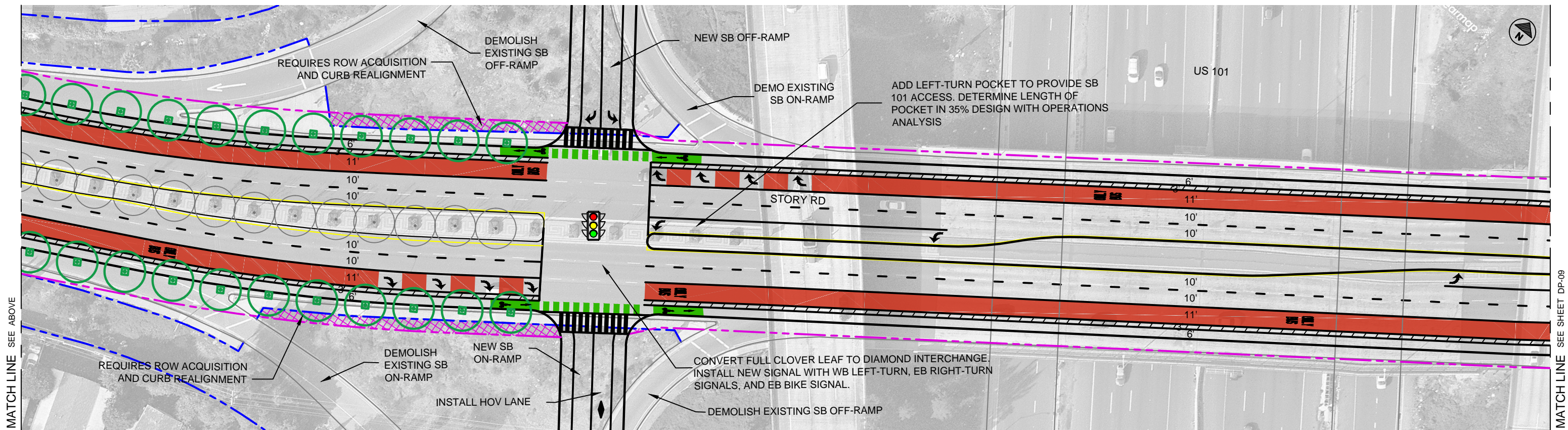
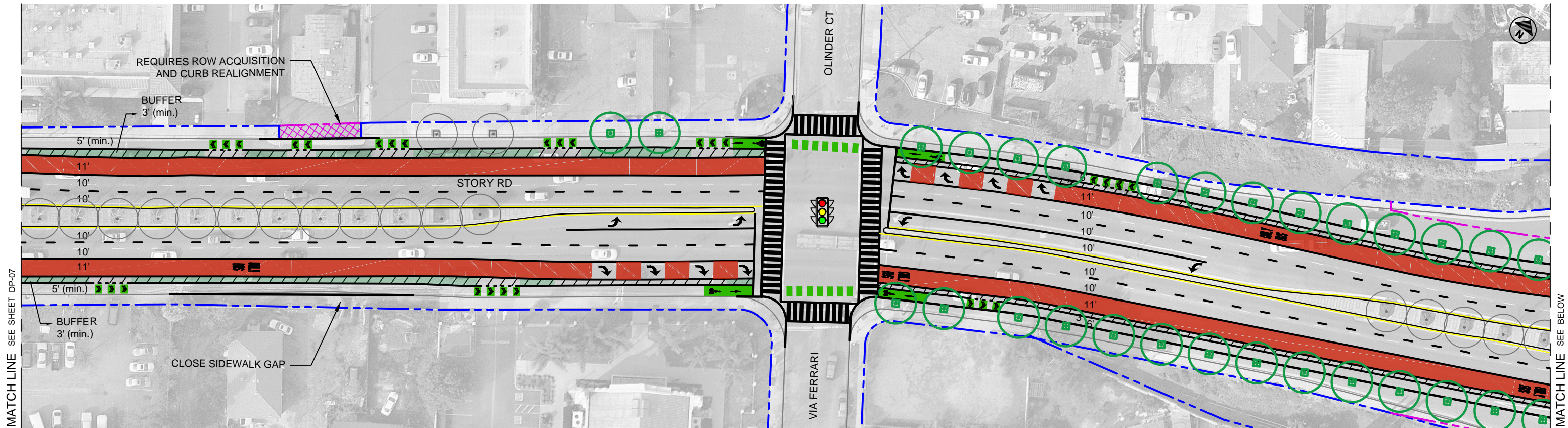
LEGEND	
	CURB - EXISTING
	CURB - PROPOSED
	RIGHT OF WAY - EXISTING
	RIGHT OF WAY - PROPOSED
	SIDEWALK EASEMENT NEEDED
	BUS STOP - RECONFIGURED IN EXISTING LOCATION
	BUS STOP - RECONFIGURED IN NEW LOCATION
	BUS STOP - REMOVED
	BUS STOP ISLAND - PROPOSED
	PROPOSED STREET TREE IN NEW TREE WELL
	PROPOSED STREET TREE IN EXISTING PLANTER STRIP
	PROPOSED STREET TREE IN EXISTING TREE WELL
	EXISTING STREET TREE IN TREE WELL
	EXISTING STREET TREE IN PLANTER STRIP
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CADD FILENAME Story-Keys 10% Design_v2 - 02.ds	
DATE 02/23/2018	SCALE 1" = 60' (Half-Size)
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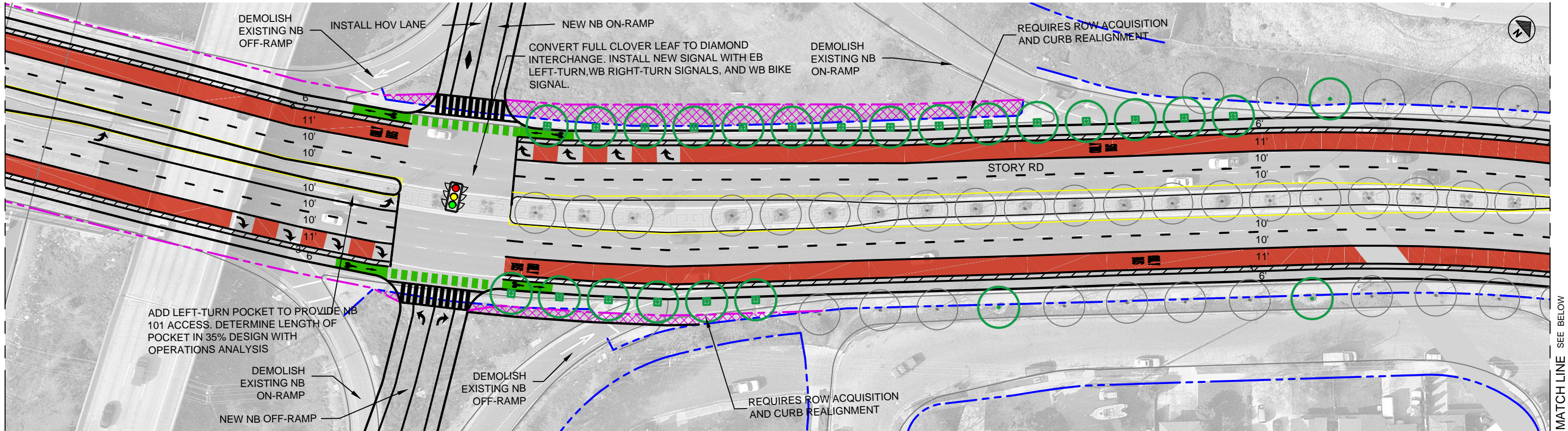


LEGEND	
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	CURB - PROPOSED
	RIGHT OF WAY - EXISTING
	RIGHT OF WAY - PROPOSED
	SIDEWALK EASEMENT NEEDED
	BUS STOP - RECONFIGURED IN EXISTING LOCATION
	BUS STOP - RECONFIGURED IN NEW LOCATION
	BUS STOP - REMOVED
	BUS STOP ISLAND - PROPOSED
	PROPOSED STREET TREE IN NEW TREE WELL
	PROPOSED STREET TREE IN EXISTING PLANTER STRIP
	PROPOSED STREET TREE IN EXISTING TREE WELL
	EXISTING STREET TREE IN TREE WELL
	EXISTING STREET TREE IN PLANTER STRIP
	UPGRADE EXISTING SIGNAL WITH SEPARATE PHASE FOR BIKE/PEDESTRIAN FROM RIGHT TURNS. ADD TRANSIT SIGNAL PRIORITY. REQUIRES OPERATIONAL ANALYSIS
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10% Concept Design Plans CONCEPTUAL - NOT FOR CONSTRUCTION DETAILED ENGINEERING ANALYSIS AND DESIGN REQUIRED		DATE 02/23/2018
SCALE 1" = 60' (Half-Size) 0' 30' 60'		VTA PROJECT NO.
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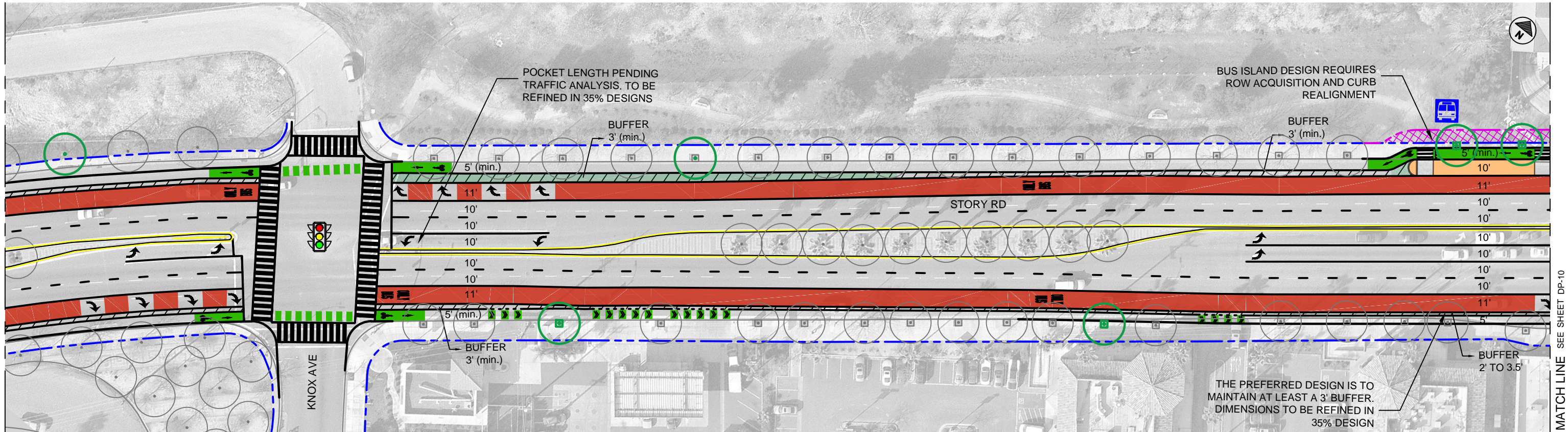
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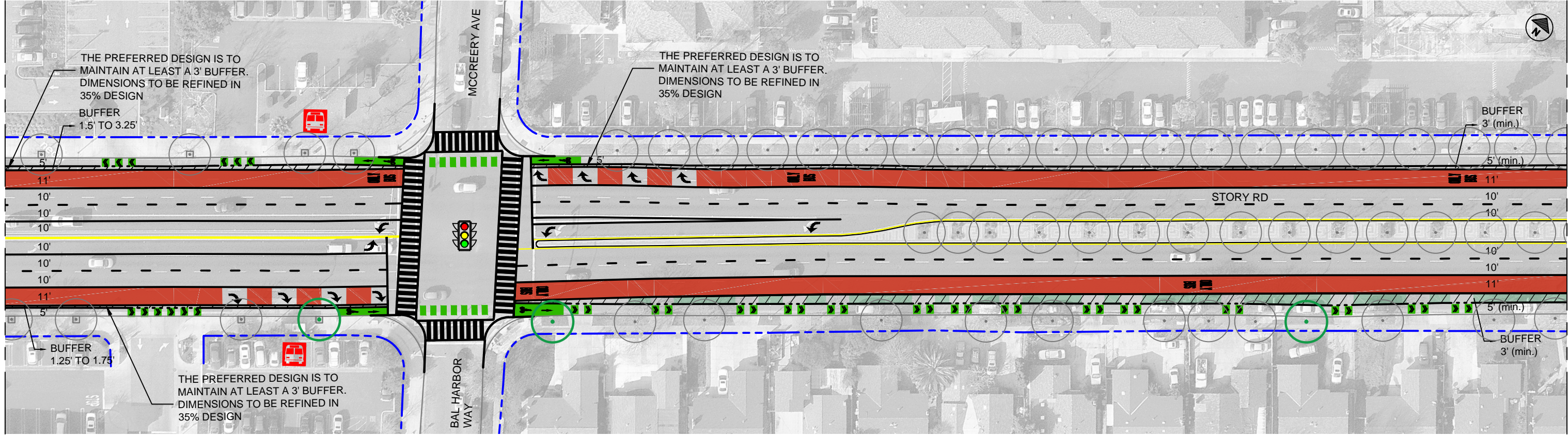
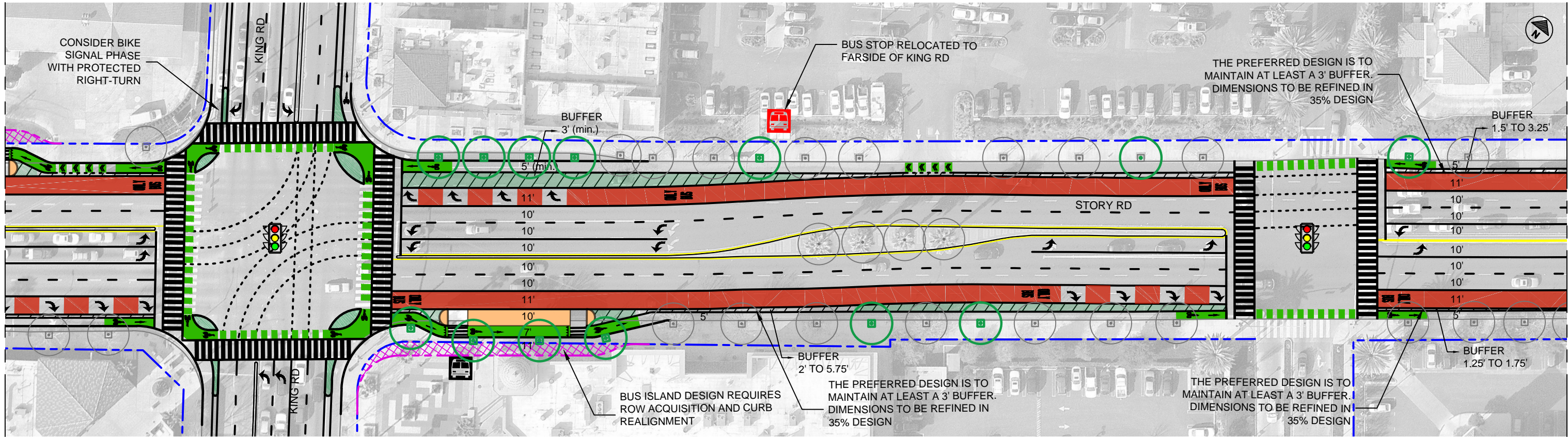
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MATCH LINE SEE SHEET DP-09

MATCH LINE SEE BELOW

MATCH LINE SEE ABOVE

MATCH LINE SEE SHEET DP-11

LEGEND	
	CURB - EXISTING
	CURB - PROPOSED
	RIGHT OF WAY - EXISTING
	RIGHT OF WAY - PROPOSED
	SIDEWALK EASEMENT NEEDED
	BUS STOP - RECONFIGURED IN EXISTING LOCATION
	BUS STOP - RECONFIGURED IN NEW LOCATION
	BUS STOP - REMOVED
	BUS STOP ISLAND - PROPOSED
	PROPOSED STREET TREE IN NEW TREE WELL
	PROPOSED STREET TREE IN EXISTING PLANTER STRIP
	PROPOSED STREET TREE IN EXISTING TREE WELL
	EXISTING STREET TREE IN TREE WELL
	EXISTING STREET TREE IN PLANTER STRIP
	UPGRADE EXISTING SIGNAL WITH SEPARATE PHASE FOR BIKE/PEDESTRIAN FROM RIGHT TURNS. ADD TRANSIT SIGNAL PRIORITY. REQUIRES OPERATIONAL ANALYSIS
	OPPORTUNITY FOR LANDSCAPING (MAY INCLUDE SOME PAVING)
	RAISED PAVED BUFFER ALONG PARKING
	MAJOR OPPORTUNITY AREA FOR LANDSCAPE/HARDSCAPE TREATMENTS
	OPPORTUNITY FOR RAISED HARDSCAPE/ LANDSCAPE TREATMENT OF BIKEWAY BUFFER (WHERE BUFFER >=4')
	OPPORTUNITY FOR RAISED HARDSCAPE TREATMENT OF BIKEWAY BUFFER (WHERE BUFFER <4')
	OPPORTUNITY FOR GREEN INFRASTRUCTURE AND/OR LANDSCAPING AND STREET TREE PLANTING (FEASIBILITY AND EXTENT TO BE DETERMINED DURING LATER DESIGN STAGES)

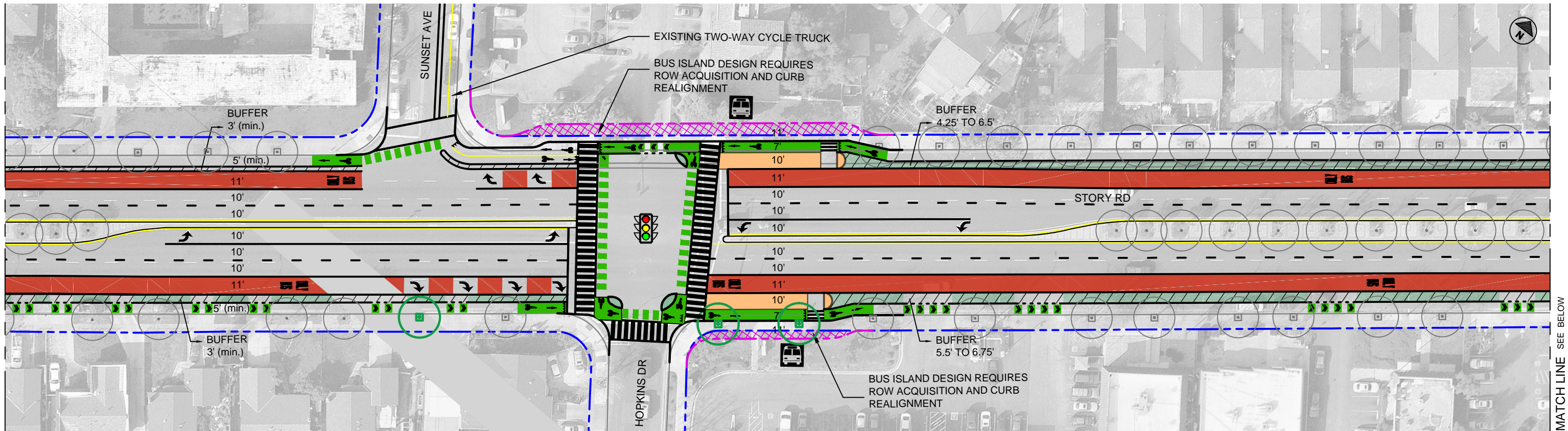
STORY-KEYES CORRIDOR COMPLETE STREETS STUDY

10% Concept Design Plans
 CONCEPTUAL - NOT FOR CONSTRUCTION
 DETAILED ENGINEERING ANALYSIS AND DESIGN REQUIRED

CADD FILENAME Story-Keys 10% Design_v2 - 02ds	
DATE 02/23/2018	SCALE 1" = 60' (Half-Size)
VTA PROJECT NO.	SHEET NO. DP-10

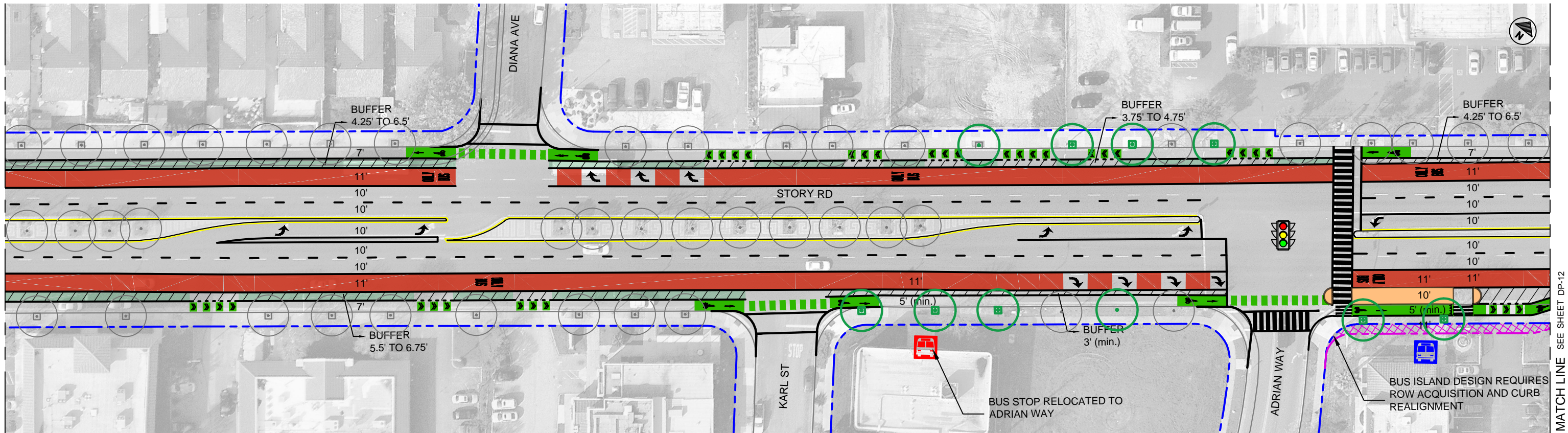
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MATCH LINE SEE SHEET DP-10



MATCH LINE SEE BELOW

MATCH LINE SEE ABOVE



MATCH LINE SEE SHEET DP-12

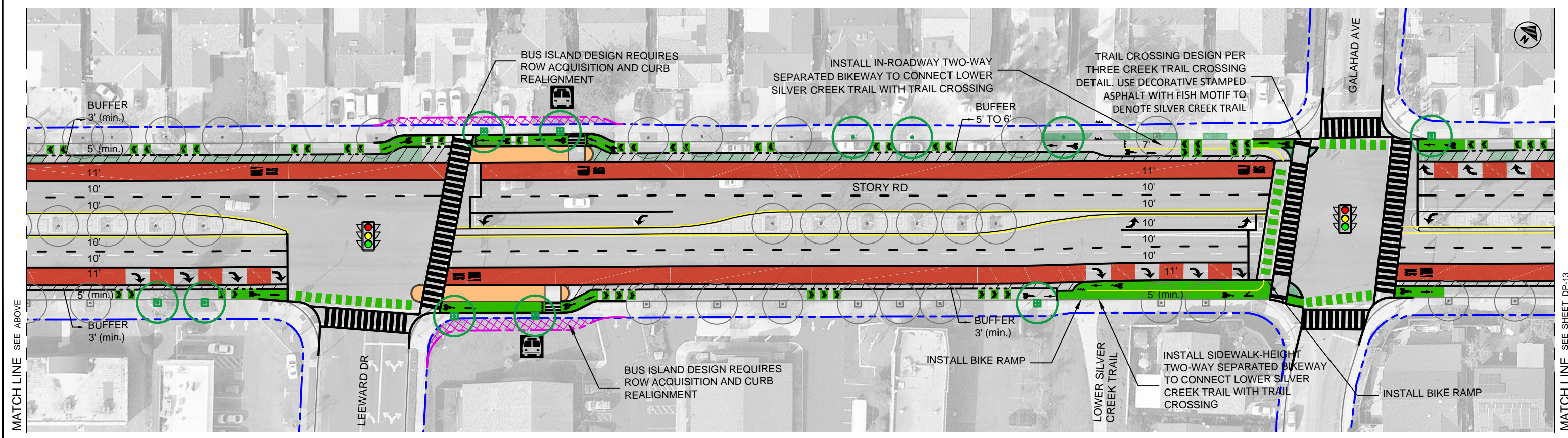
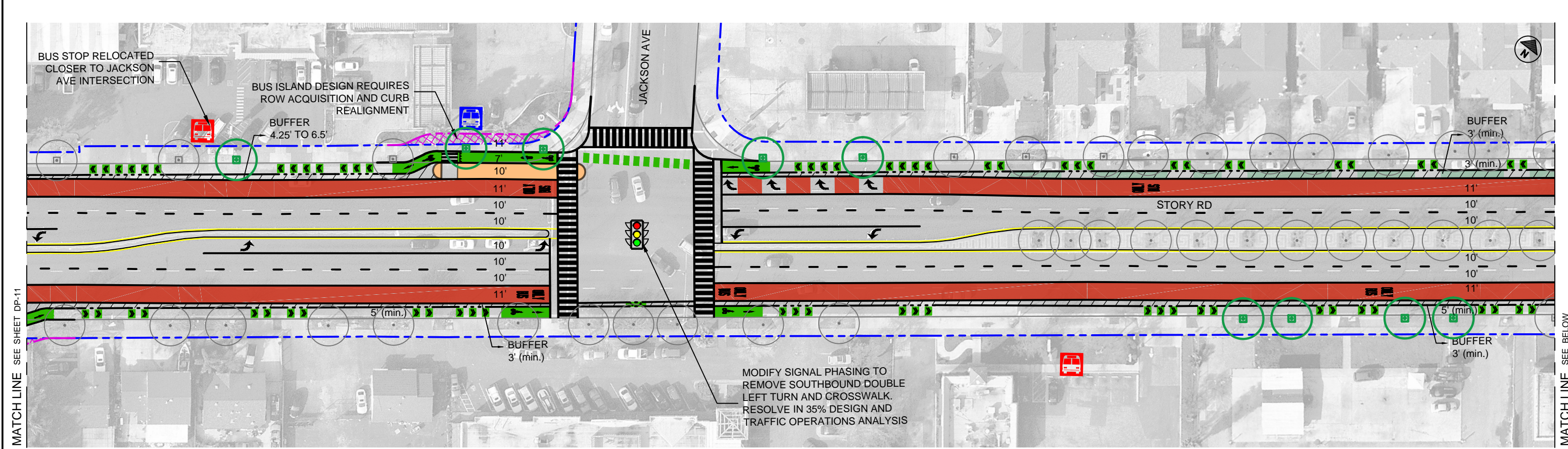
LEGEND	
	CURB - EXISTING
	CURB - PROPOSED
	RIGHT OF WAY - EXISTING
	RIGHT OF WAY - PROPOSED
	SIDEWALK EASEMENT NEEDED
	BUS STOP - RECONFIGURED IN EXISTING LOCATION
	BUS STOP - RECONFIGURED IN NEW LOCATION
	BUS STOP - REMOVED
	BUS STOP ISLAND - PROPOSED
	PROPOSED STREET TREE IN NEW TREE WELL
	PROPOSED STREET TREE IN EXISTING PLANTER STRIP
	PROPOSED STREET TREE IN EXISTING TREE WELL
	EXISTING STREET TREE IN TREE WELL
	EXISTING STREET TREE IN PLANTER STRIP
	UPGRADE EXISTING SIGNAL WITH SEPARATE PHASE FOR BIKE/PEDESTRIAN FROM RIGHT TURNS. ADD TRANSIT SIGNAL PRIORITY. REQUIRES OPERATIONAL ANALYSIS
	OPPORTUNITY FOR LANDSCAPING (MAY INCLUDE SOME PAVING)
	RAISED PAVED BUFFER ALONG PARKING
	MAJOR OPPORTUNITY AREA FOR LANDSCAPE/HARDSCAPE TREATMENTS
	OPPORTUNITY FOR RAISED HARDSCAPE/ LANDSCAPE TREATMENT OF BIKEWAY BUFFER (WHERE BUFFER >=4')
	OPPORTUNITY FOR RAISED HARDSCAPE TREATMENT OF BIKEWAY BUFFER (WHERE BUFFER <4')
	OPPORTUNITY FOR GREEN INFRASTRUCTURE AND/OR LANDSCAPING AND STREET TREE PLANTING (FEASIBILITY AND EXTENT TO BE DETERMINED DURING LATER DESIGN STAGES)

**STORY-KEYES CORRIDOR
COMPLETE STREETS STUDY**

10% Concept Design Plans
CONCEPTUAL - NOT FOR CONSTRUCTION
DETAILED ENGINEERING ANALYSIS AND DESIGN REQUIRED

CADD FILENAME Story-Keys 10% Design_v2 - 02ds	
DATE 02/23/2018	SCALE 1" = 60' (Half-Size)
VTA PROJECT NO.	
SHEET NO. DP-11	

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<p>LEGEND</p> <p>— CURB - EXISTING</p> <p>— CURB - PROPOSED</p> <p>--- RIGHT OF WAY - EXISTING</p> <p>--- RIGHT OF WAY - PROPOSED</p> <p>XXXXX SIDEWALK EASEMENT NEEDED</p>		<p> BUS STOP - RECONFIGURED IN EXISTING LOCATION</p> <p> BUS STOP - RECONFIGURED IN NEW LOCATION</p> <p> BUS STOP - REMOVED</p> <p> BUS STOP ISLAND - PROPOSED</p>		<p> PROPOSED STREET TREE IN NEW TREE WELL</p> <p> PROPOSED STREET TREE IN EXISTING PLANTER STRIP</p> <p> PROPOSED STREET TREE IN EXISTING TREE WELL</p>		<p> EXISTING STREET TREE IN TREE WELL</p> <p> EXISTING STREET TREE IN PLANTER STRIP</p> <p> UPGRADE EXISTING SIGNAL WITH SEPARATE PHASE FOR BIKE/PEDESTRIAN FROM RIGHT TURNS. ADD TRANSIT SIGNAL PRIORITY. REQUIRES OPERATIONAL ANALYSIS</p>		<p> OPPORTUNITY FOR LANDSCAPING (MAY INCLUDE SOME PAVING)</p> <p> RAISED PAVED BUFFER ALONG PARKING</p> <p> MAJOR OPPORTUNITY AREA FOR LANDSCAPE/HARDSCAPE TREATMENTS</p>		<p> OPPORTUNITY FOR RAISED HARDSCAPE/ LANDSCAPE TREATMENT OF BIKEWAY BUFFER (WHERE BUFFER >=4')</p> <p> OPPORTUNITY FOR RAISED HARDSCAPE TREATMENT OF BIKEWAY BUFFER (WHERE BUFFER <4')</p> <p> OPPORTUNITY FOR GREEN INFRASTRUCTURE AND/OR LANDSCAPING AND STREET TREE PLANTING (FEASIBILITY AND EXTENT TO BE DETERMINED DURING LATER DESIGN STAGES)</p>					
<p>STORY-KEYES CORRIDOR COMPLETE STREETS STUDY</p> <p>10% Concept Design Plans</p> <p>CONCEPTUAL - NOT FOR CONSTRUCTION</p> <p>DETAILED ENGINEERING ANALYSIS AND DESIGN REQUIRED</p>										<p>CADD FILENAME Story-Keys 10% Design_v2 - 02.ds</p> <p>DATE 02/23/2018</p> <p>VTA PROJECT NO.</p>		<p>SCALE 1" = 60' (Half-Size)</p> <p>0' 30' 60'</p>		<p>SHEET NO. DP-12</p>	

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SANTA CLARA VALLEY TRANSPORTATION AUTHORITY

STORY-KEYES CORRIDOR COMPLETE STREET STUDY

SUMMARY SHEET

PRELIMINARY ESTIMATE OF PROGRAM COSTS SUMMARY

SEGMENT	LENGTH (FT)	COST
WILLOW ST (BETWEEN ROUTE 87 AND GRAHAM AVE)	2,400	\$5,800,000
GRAHAM AVE (BETWEEN WILLOW ST AND 2ND ST)	1,300	\$4,900,000
KEYES ST (BETWEEN 2ND ST AND SENTER RD)	4,000	\$15,500,000
STORY ROAD (BETWEEN SENTER RD AND CAPITOL EXPY)	14,500	\$36,500,000
TOTAL COST	22,200	\$62,700,000

PRELIMINARY PROJECT COST ESTIMATE



**STORY-KEYES CORRIDOR COMPLETE STREETS STUDY
WILLOW STREET**

March 1, 2018

PROJECT DESCRIPTION:

Willow Street between Route 87 and Graham Avenue

I. ROADWAY ITEMS (Sections 1 - 5)

	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Cost</u>
Street Pavement (incl. Roadway Ex)	41,400	SF	\$12.50	\$517,500
AC Overlay (Depth Varies)	0	SF	\$2.00	\$0
Curb (Incl. Curb, Gutters and Dikes)	5,500	LF	\$50.00	\$275,000
Project Drainage	1	LS	\$120,000	\$120,000
Sidewalk	6,300	SF	\$10.00	\$63,000
Driveway	2,200	SF	\$14.00	\$30,800
Median Island Surfacing (Incl. Bus Island and Hardscape)	0	SF	\$15.00	\$0
Erosion Control, WPC and SWPPP	1	LS	\$50,000	\$50,000
Traffic Delineation and Signing	1	LS	\$80,000	\$80,000
Modify Traffic Signal	2	EA	\$200,000	\$400,000
Traffic Control Systems and TMP	1	LS	\$350,000	\$350,000
Bioretention Areas	1,100	SF	\$100	\$110,000
Bus Shelter	3	EA	\$20,000	\$60,000
Bus Only Pavement Marking	0	SF	\$8	\$0
Bike Lane Pavement Marking	0	SF	\$8	\$0
Trees (incl. Irrigation)	67	EA	\$2,000	\$134,000
Landscaping	16,800	SF	\$16.00	\$268,800
Temporary Railing (Type K)	2,400	LF	\$15.00	\$36,000
Pedestrian Scale Lighting	40	EA	\$6,000	\$240,000
Street Furnishings (Incl. Wayfinding Sign)	2,400	LF	\$35.00	\$84,000
				Subtotal
				\$2,820,000
Section 6: Minor Items (5% of Sections 1 - 5)	2,820,000	x 5%	\$141,000	
				Subtotal
				\$141,000
Section 7: Mobilization (10% of Sections 1 - 6)	2,961,000	x 10%	\$296,000	
Section 8: Supplemental Work (5% of Sections 1 - 6)	2,961,000	x 5%	\$148,000	
Section 9: Contingencies (25% of Sections 1 - 6)	2,961,000	x 25%	\$740,000	
				Subtotal
				\$1,184,000
				TOTAL ROADWAY ITEMS
				\$4,150,000

II. RIGHT-OF-WAY & UTILITIES

	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Cost</u>
Various Real Properties	0	SF	\$105.00	\$0
Utility Relocation Allowance	1	LS	\$400,000	\$400,000
				TOTAL RIGHT-OF-WAY AND UTILITIES ITEMS
				\$400,000

COST ESTIMATE SUMMARY:

TOTAL ROADWAY ITEMS (PART I)		\$4,150,000
SUBTOTAL CONSTRUCTION COSTS		\$4,150,000
SUPPORT COSTS:		
FINAL DESIGN PHASE - Use Approx. 15%		\$623,000
CONST. ADMIN. & DSDC - Use Approx. 15%		\$623,000
SUBTOTAL SUPPORT COSTS		\$1,246,000
TOTAL RIGHT-OF-WAY AND UTILITIES ITEMS (PART II)		\$400,000

TOTAL PROJECT COSTS	\$5,800,000
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PRELIMINARY PROJECT COST ESTIMATE



**STORY-KEYES CORRIDOR COMPLETE STREETS STUDY
GRAHAM AVENUE**

March 1, 2018

PROJECT DESCRIPTION: Graham Avenue between Willow Street and 2nd Street

I. ROADWAY ITEMS (Sections 1 - 5)

	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Cost</u>
Street Pavement (incl. Roadway Ex)	10,700	SF	\$12.50	\$133,750
AC Overlay (Depth Varies)	91,000	SF	\$2.00	\$182,000
Curb (Incl. Curb, Gutters and Dikes)	3,600	LF	\$50.00	\$180,000
Project Drainage	1	LS	\$150,000	\$150,000
Sidewalk	7,700	SF	\$10.00	\$77,000
Driveway	0	SF	\$14.00	\$0
Median Island Surfacing (Incl. Bus Island and Hardscape)	2,100	SF	\$15.00	\$31,500
Erosion Control, WPC and SWPPP	1	LS	\$50,000	\$50,000
Traffic Delineation and Signing	1	LS	\$35,000	\$35,000
Modify Traffic Signal	2	EA	\$200,000	\$400,000
Traffic Control Systems and TMP	1	LS	\$150,000	\$150,000
Bioretention Areas	4,900	SF	\$100	\$490,000
Bus Shelter	2	EA	\$20,000	\$40,000
Bus Only Pavement Marking	0	SF	\$8	\$0
Bike Lane Pavement Marking	5,500	SF	\$8	\$44,000
Trees (incl. Irrigation)	36	EA	\$2,000	\$72,000
Landscaping	8,800	SF	\$16.00	\$140,800
Temporary Railing (Type K)	2,800	LF	\$15.00	\$42,000
Pedestrian Scale Lighting	20	EA	\$6,000	\$120,000
Street Furnishings (Incl. Wayfinding Sign)	1,300	LF	\$35.00	\$45,500
				Subtotal \$2,380,000
Section 6: Minor Items (5% of Sections 1 - 5)	2,380,000	x 5%	\$119,000	
				Subtotal \$119,000
Section 7: Mobilization (10% of Sections 1 - 6)	2,499,000	x 10%	\$250,000	
Section 8: Supplemental Work (5% of Sections 1 - 6)	2,499,000	x 5%	\$125,000	
Section 9: Contingencies (25% of Sections 1 - 6)	2,499,000	x 25%	\$625,000	
				Subtotal \$1,000,000
				TOTAL ROADWAY ITEMS \$3,500,000

II. RIGHT-OF-WAY & UTILITIES

	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Cost</u>
Various Real Properties	0	SF	\$105.00	\$0
Utility Relocation Allowance	1	LS	\$300,000	\$300,000
				TOTAL RIGHT-OF-WAY AND UTILITIES ITEMS \$300,000

COST ESTIMATE SUMMARY:

TOTAL ROADWAY ITEMS (PART I)		\$3,500,000
SUBTOTAL CONSTRUCTION COSTS		\$3,500,000
SUPPORT COSTS:		
FINAL DESIGN PHASE - Use Approx. 15%		\$525,000
CONST. ADMIN. & DSDC - Use Approx. 15%		\$525,000
SUBTOTAL SUPPORT COSTS		\$1,050,000
TOTAL RIGHT-OF-WAY AND UTILITIES ITEMS (PART II)		\$300,000

TOTAL PROJECT COSTS	\$4,900,000
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PRELIMINARY PROJECT COST ESTIMATE



**STORY-KEYES CORRIDOR COMPLETE STREETS STUDY
KEYES STREET**

March 1, 2018

PROJECT DESCRIPTION:

Keyes Street between 2nd Street and Senter Road

I. ROADWAY ITEMS (Sections 1 - 5)

	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Cost</u>
Street Pavement (incl. Roadway Ex)	27,400	SF	\$12.50	\$342,500
AC Overlay (Depth Varies)	303,000	SF	\$2.00	\$606,000
Curb (Incl. Curb, Gutters and Dikes)	13,300	LF	\$50.00	\$665,000
Project Drainage	1	LS	\$250,000	\$250,000
Sidewalk	17,900	SF	\$10.00	\$179,000
Driveway	0	SF	\$14.00	\$0
Median Island Surfacing (Incl. Bus Island and Hardscape)	8,900	SF	\$15.00	\$133,500
Erosion Control, WPC and SWPPP	1	LS	\$100,000	\$100,000
Traffic Delineation and Signing	1	LS	\$80,000	\$80,000
Modify Traffic Signal	5	EA	\$300,000	\$1,500,000
Traffic Control Systems and TMP	1	LS	\$300,000	\$300,000
Bioretention Areas	27,200	SF	\$100	\$2,720,000
Bus Shelter	4	EA	\$20,000	\$80,000
Bus Only Pavement Marking	4,900	SF	\$8	\$39,200
Bike Lane Pavement Marking	23,000	SF	\$8	\$184,000
Trees (incl. Irrigation)	97	EA	\$2,000	\$194,000
Landscaping	1,100	SF	\$16.00	\$17,600
Temporary Railing (Type K)	8,000	LF	\$15.00	\$120,000
Pedestrian Scale Lighting	35	EA	\$6,000	\$210,000
Street Furnishings (Incl. Wayfinding Sign)	4,000	LF	\$35.00	\$140,000
				Subtotal \$7,860,000
Section 6: Minor Items (5% of Sections 1 - 5)	7,860,000	x 5%	\$393,000	
				Subtotal \$393,000
Section 7: Mobilization (10% of Sections 1 - 6)	8,253,000	x 10%	\$825,000	
Section 8: Supplemental Work (5% of Sections 1 - 6)	8,253,000	x 5%	\$413,000	
Section 9: Contingencies (25% of Sections 1 - 6)	8,253,000	x 25%	\$2,063,000	
				Subtotal \$3,301,000
				TOTAL ROADWAY ITEMS \$11,550,000

II. RIGHT-OF-WAY & UTILITIES

	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Cost</u>
Various Real Properties	0	SF	\$105.00	\$0
Utility Relocation Allowance	1	LS	\$500,000	\$500,000
				TOTAL RIGHT-OF-WAY AND UTILITIES ITEMS \$500,000

COST ESTIMATE SUMMARY:

TOTAL ROADWAY ITEMS (PART I)	\$11,550,000
SUBTOTAL CONSTRUCTION COSTS	\$11,550,000
SUPPORT COSTS:	
FINAL DESIGN PHASE - Use Approx. 15%	\$1,733,000
CONST. ADMIN. & DSDC - Use Approx. 15%	\$1,733,000
SUBTOTAL SUPPORT COSTS	\$3,466,000
TOTAL RIGHT-OF-WAY AND UTILITIES ITEMS (PART II)	\$500,000

TOTAL PROJECT COSTS	\$15,500,000
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PRELIMINARY PROJECT COST ESTIMATE



**STORY-KEYES CORRIDOR COMPLETE STREETS STUDY
STORY ROAD**

March 1, 2018

PROJECT DESCRIPTION:

Story Road between Senter Road and Capitol Expressway

I. ROADWAY ITEMS (Sections 1 - 5)

	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Cost</u>
Street Pavement (incl. Roadway Ex)	40,500	SF	\$12.50	\$506,250
AC Overlay (Depth Varies)	0	SF	\$2.00	\$0
Curb (Incl. Curb, Gutters and Dikes)	14,500	LF	\$50.00	\$725,000
Project Drainage	1	LS	\$150,000	\$150,000
Sidewalk	46,500	SF	\$10.00	\$465,000
Driveway	2,200	SF	\$14.00	\$30,800
Median Island Surfacing (Incl. Bus Island and Hardscape)	10,500	SF	\$15.00	\$157,500
Erosion Control, WPC and SWPPP	1	LS	\$100,000	\$100,000
Traffic Delineation and Signing	1	LS	\$50,000	\$50,000
Modify Traffic Signal	16	EA	\$300,000	\$4,800,000
Traffic Control Systems and TMP	1	LS	\$600,000	\$600,000
Bioretention Areas	0	SF	\$100	\$0
Bus Shelter	15	EA	\$20,000	\$300,000
Bus Only Pavement Marking	269,000	SF	\$8	\$2,152,000
Bike Lane Pavement Marking	110,000	SF	\$8	\$880,000
Trees (incl. Irrigation)	276	EA	\$2,000	\$552,000
Landscaping	0	SF	\$16.00	\$0
Temporary Railing (Type K)	15,000	LF	\$15.00	\$225,000
Pedestrian Scale Lighting	580	EA	\$6,000	\$3,480,000
Street Furnishings (Incl. Wayfinding Sign)	14,500	LF	\$35.00	\$507,500
Modify U.S. 101 Northbound & Southbound Ramp Intersections	1	LS	\$3,000,000	\$3,000,000
				Subtotal \$18,680,000
Section 6: Minor Items (5% of Sections 1 - 5)	18,680,000	x	5%	\$934,000
				Subtotal \$934,000
Section 7: Mobilization (10% of Sections 1 - 6)	19,614,000	x	10%	\$1,961,000
Section 8: Supplemental Work (5% of Sections 1 - 6)	19,614,000	x	5%	\$981,000
Section 9: Contingencies (25% of Sections 1 - 6)	19,614,000	x	25%	\$4,904,000
				Subtotal \$7,846,000
				TOTAL ROADWAY ITEMS \$27,460,000

II. RIGHT-OF-WAY & UTILITIES

	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Cost</u>
Various Real Properties	0	SF	\$105.00	\$0
Utility Relocation Allowance	1	LS	\$800,000	\$800,000
				TOTAL RIGHT-OF-WAY AND UTILITIES ITEMS \$800,000

COST ESTIMATE SUMMARY:

TOTAL ROADWAY ITEMS (PART I)		\$27,460,000
SUBTOTAL CONSTRUCTION COSTS		\$27,460,000
SUPPORT COSTS:		
FINAL DESIGN PHASE - Use Approx. 15%		\$4,119,000
CONST. ADMIN. & DSDC - Use Approx. 15%		\$4,119,000
SUBTOTAL SUPPORT COSTS		\$8,238,000
TOTAL RIGHT-OF-WAY AND UTILITIES ITEMS (PART II)		\$800,000
TOTAL PROJECT COSTS		\$36,500,000



SANTA CLARA VALLEY TRANSPORTATION AUTHORITY

STORY-KEYES CORRIDOR COMPLETE STREET STUDY

Notes and Assumptions

Assumptions

1. All curb and gutter works assumes a replacement of 24" of pavement reconstruction.
2. Construction of roundabouts at Willow/Harlist and Willow/Graham intersections will require detours, incl. temporary pavement, traffic control and construction area signs.
3. Pavement overlays are assumed where substantial curb work and/or striping modifications are necessary for construction.
4. No pavement overlays are assumed along Willow Street from Harlist Ave to Almaden Ave
5. No pavement overlays are assumed on Story Road.
6. The average spacing between ped-scale fixtures is assumed to be 50 feet.

Notes

1. This opinion of probable construction cost is a professional opinion, based upon HMMH's experience with the design of similar projects. It is prepared as a guide only, is based upon incomplete information and is subject to possible change. HMMH makes no warranty, either express or implied, that actual costs will not vary from these estimated costs and assumes no liability for such variances. This estimate was prepared based on the 10% Plans prepared by Fehr and Peers of the Story-Keyes Corridor Complete Streets Project dated January, 2018.
2. No property value assessment or research of Right of Way and Easement Costs was performed to develop this estimate. Formal consultation with a right-of-way acquisition expert is advised for any right-of-way acquisition.
3. Unit prices are based on the past experience of HMMH for similar construction items, or from discussion with other consultants, contractors or agency staff.
4. This estimate does not account for escalation or inflation.
5. Soil conditions have not been considered in any of the construction costs.
6. Costs associated with possible import or export and double handling of material is not included in this estimate.
7. This estimate does not include work associated with hazardous materials handling, testing, remediation and/or removal.
8. This estimate does not include any geotechnical work which may be necessary as a result of construction activities.
9. Accuracy of this estimate should be considered a Class 4 estimate consistent with the 10% level of development of project plans as defined by AACE Recommended Practice 18R-97.