

# Memorandum

ARUP

To Barrow Emerson, SamTrans

Date  
July 31, 2014

Copies Melissa Reggiardo, SamTrans

Reference number  
[Click here to enter text.](#)

From Corey Wong, Arup  
Steve Crosley, Fehr & Peers

File reference  
[Click here to enter text.](#)

Subject Stop Selection for Hybrid Rapid Service Options

## Background

This memo briefly describes how stops were selected for the Hybrid Rapid service options as part of SamTrans's El Camino Real Bus Rapid Transit (BRT) Phasing Study. This memo builds on the *January 27, 2014 SamTrans ECR BRT Phasing Plan – Rapid Station Selection Memo* as well as the *April 20, 2014 SamTrans ECR BRT Phasing Plan – Truncated Rapid Station Selection Memo*.

## Rapid Service Options

As part of the Phasing Study, several Rapid service options (i.e., limited stop service with transit signal priority and other amenities to improve service over the existing ECR) for the near-term were developed to enhance service on the Corridor and to increase ridership. These include:

**Table 1: Rapid Service Option Description and Number of Stops Served**

#	Service	Description	# of Stops Served <sup>A</sup>
1	Full Rapid	<ul style="list-style-type: none"><li>The Full Rapid would overlay the existing ECR and operate along the corridor from Daly City BART to Palo Alto Caltrain.</li><li>The Full Rapid would serve 37 stops selected based on high demand (125 combined daily ons/offers in one direction), transit connectivity, location relative to important land uses, and would have stops spaced no more than one-mile apart.</li><li>ECR would continue to operate along the entire corridor at 15-minute headways.</li></ul>	37
2	Truncated Rapid	<ul style="list-style-type: none"><li>Truncated Rapid would overlay the existing ECR and operate along a portion of the corridor to improve productivity and remove low productivity segments at the end(s) of the El Camino Real Corridor (i.e., Daly City or San Bruno BART to Redwood City Caltrain).</li><li>The Truncated Rapid between Daly City BART and Redwood City</li></ul>	23 or 32 (depending on concept)

# Memorandum

#	Service	Description	# of Stops Served <sup>A</sup>
		<p>Caltrain would serve 32 stops. A San Bruno BART to Redwood City variant would serve 23 stops.</p> <ul style="list-style-type: none"> <li>• ECR would continue to operate along the entire corridor at 15-minute headways.</li> </ul>	
3	Peak Rapid	<ul style="list-style-type: none"> <li>• Peak Rapid would operate similar to the Full Rapid (i.e., from Daly City BART to Palo Alto Caltrain), except only during peak demand hours in the morning and afternoon.</li> <li>• Peak Rapid would serve 37 stops.</li> <li>• ECR would continue to operate along the entire corridor at 15-minute headways.</li> </ul>	37
4	Hybrid Rapid Concept A	<ul style="list-style-type: none"> <li>• Hybrid Rapid would be a variant of the Full Rapid and operate from Daly City BART to Palo Alto Caltrain. However, no local ECR overlay would operate. Therefore, the Hybrid Rapid would be the only route operating on the length of the El Camino Corridor.</li> <li>• In busier, higher demand segments, the Hybrid Rapid would operate similar to a local service to provide greater access and mobility in these areas. Outside of these higher demand segments, the Hybrid Rapid would stop in selected locations due to high demand, transit connectivity, location relative to important land uses, and minimal one-mile coverage.</li> <li>• The Hybrid Rapid would serve 76 of the 102 ECR stops.</li> </ul>	76

Notes:

<sup>A</sup> ECR currently serves 102 stops.

## Hybrid Rapid Concept A

As part of the modeling exercise to forecast demand, two service variants of Hybrid Rapid Concept A were tested (i.e., with 10- and 12-minute headways, respectively), each with 76 stops as follows:

- All 37 stops served by the Full Rapid would also be served by the Hybrid Rapid.
- An additional 39 stops would be served in the “high demand” segment between Brentwood Drive (just north of San Bruno BART) to Center Street (south of Redwood City Caltrain). All ECR stops within this segment would be served by the Hybrid Rapid. It is noted that these 39 additional stops have varying levels of demand (ranging from moderate to low), provide access to civic facilities and institutional uses, and provide minimal coverage.

Combined, the 76 Hybrid Rapid Concept A stops over the length of the corridor equates to a stop every 0.33 miles, which is nearly half of the average stop spacing of the Full Rapid service (with 37 stops,

# Memorandum

equating to a stop every 0.69 miles).<sup>1</sup> The Hybrid Rapid Concept A would have a stop spacing that is 50% longer than that of the existing ECR (with 102 stops, equating to a stop spacing of 0.25 miles).

The 76 Hybrid Rapid Concept A stops are identified in Table 2 below, with the average number of existing weekday ons/offers on Route ECR from October and November 2013 (for the northbound and southbound directions):

**Table 2: Hybrid Rapid Concept A**

SB #	Southbound Stop	NB #	Northbound Stop	SB Ons/Offs	NB Ons/Offs	Avg. NB & SB Ons/Offs	Full Rapid Stop	Hybrid Rapid Concept A Stop
1	Daly City BART	76	Daly City BART	208	128	168	X	X
2	Mission St. & San Jose St.	75	Mission St. & San Jose St.	473	0	237	X	X
3	Mission St & School St	74	Mission St & Price St	217	216	216	X	X
4	Mission St & San Pedro Rd.	73	Mission St. & East Market	151	99	125	X	X
5	Colma BART	72	Colma BART	363	368	365	X	X
6	South San Francisco BART (El Camino Real & McClellan Dr)	71	South San Francisco BART (El Camino Real & McClellan Dr)	59	154	106	X	X
7	El Camino Real & Arroyo Dr/SSF	70	El Camino Real & Arroyo Dr/SSF	187	156	172	X	X
8	El Camino Real & W Orange Ave	69	El Camino Real & W Orange Ave	151	171	161	X	X
9	El Camino Real & Brentwood Dr	68	El Camino Real & Spruce Ave	163	144	154	X	X
10	El Camino Real & Sneath Lane	67	El Camino Real & Sneath Lane	388	405	396	X	X
11	El Camino Real & Hwy 380	66	El Camino Real & Hwy 380	53	0	27		X
12	El Camino Real & San Bruno Ave W	65	El Camino Real & San Bruno Ave W	203	220	212	X	X
13	El Camino Real & Angus Ave W	64	El Camino Real & Angus Ave W	79	76	77		X
14	El Camino Real & Jenevein Ave	63	El Camino Real & Jenevein Ave	116	132	124	X	X
15	El Camino Real & Crystal Springs Rd	62	El Camino Real & Taylor Ave	94	83	88		X
16	El Camino Real & San Felipe Ave	61	El Camino Real & San Felipe Ave	76	56	66		X
17	El Camino Real & Park Pl	60	El Camino Real & Santa Inez Ave	149	149	149	X	X
18	El Camino Real & Capuchino Dr	59	El Camino Real & Millwood Dr	56	67	61		X
19	El Camino Real & Center St/Millbrae	58	El Camino Real & Center St/Millbrae	68	46	57		X

<sup>1</sup> For the Full Rapid, local ECR would still operate. In total, the combined stop spacing of both the Rapid and ECR would be about 0.19 miles (with 139 total stops).

# Memorandum

SB #	Southbound Stop	NB #	Northbound Stop	SB Ons/Offs	NB Ons/Offs	Avg. NB & SB Ons/Offs	Full Rapid Stop	Hybrid Rapid Concept A Stop
20	El Camino Real & Meadow Glen Ave	57	El Camino Real & Meadow Glen Ave	53	55	54		X
21	El Camino Real & Silva Ave	56	El Camino Real & Silva Ave	140	158	149	X	X
22	El Camino Real & Taylor Ave	55	El Camino Real & Hillcrest Blvd	92	70	81		X
23	El Camino Real & Chadbourne Ave	54	El Camino Real & Linden Ave	318	260	289	X	X
24	El Camino Real & Murchison Dr	53	El Camino Real & Murchison Dr	132	87	110		X
25	El Camino Real & Trousdale Dr	52	El Camino Real & Trousdale Dr	104	102	103	X	X
26	El Camino Real & Ray Dr	51	El Camino Real & Rosedale Ave	18	21	19		X
27	El Camino Real & Adeline Dr	50	El Camino Real & Adeline Dr	16	16	16		X
28	El Camino Real & Hillside Dr	49	El Camino Real & Hillside Dr	38	38	38		X
29	El Camino Real & Easton Dr	48	El Camino Real & Easton Dr	21	18	20		X
30	El Camino Real & Broadway/Burlingame	47	El Camino Real & Broadway/Burlingame	140	131	135	X	X
31	El Camino Real & Sanchez Ave	46	El Camino Real & Sanchez Ave	30	32	31		X
32	El Camino Real & Arc Way	45	El Camino Real & Palm Dr	10	15	13		X
33	El Camino Real & Oak Grove Ave	44	El Camino Real & Oak Grove Ave	39	33	36		X
34	El Camino Real & Bellevue Ave	43	El Camino Real & Bellevue Ave	41	21	31		X
35	El Camino Real & Burlingame Ave	42	El Camino Real & Burlingame Ave	120	93	107	X	X
36	El Camino Real & Howard Ave	41	El Camino Real & Howard Ave	86	151	118		X
37	N El Camino Real & Warren Rd	40	N El Camino Real & State St	67	60	63		X
38	N El Camino Real & W Bellevue Ave	39	N El Camino Real & Grand Blvd	60	47	53		X
39	N El Camino Real & W Poplar Ave	38	N El Camino Real & W Poplar Ave	124	127	126	X	X
40	N El Camino Real & El Cerrito Ave	37	N El Camino Real & Tilton Ave	148	148	148	X	X
41	S El Camino Real & W 2nd Ave	36	S El Camino Real & E 2nd Ave	213	222	217	X	X
42	S El Camino Real & W 4th Ave	35	S El Camino Real & E 5th Ave	217	250	234	X	X
43	S El Camino Real &	34	S El Camino Real &	81	69	75		X

# Memorandum

SB #	Southbound Stop	NB #	Northbound Stop	SB Ons/Offs	NB Ons/Offs	Avg. NB & SB Ons/Offs	Full Rapid Stop	Hybrid Rapid Concept A Stop
	W 9th Ave		E 9th Ave					
44	S El Camino Real & Hobart Ave	33	S El Camino Real & 12th Ave	51	45	48		X
45	S El Camino Real & 17th Ave	32	S El Camino Real & 17th Ave	123	137	130	X	X
46	S El Camino Real & W 20th Ave	31	S El Camino Real & W 20th Ave	147	163	155	X	X
47	S El Camino Real & W 25th Ave	30	S El Camino Real & W 25th Ave	143	132	137	X	X
48	S El Camino Real & 27th Ave	29	S El Camino Real & 27th Ave	57	55	56		X
49	S El Camino Real & W 31st Ave	28	S El Camino Real & E 31st Ave	236	131	184		X
50	S El Camino Real & W Hillsdale Blvd	27	S El Camino Real & W Hillsdale Blvd	318	354	336	X	X
51	S El Camino Real & 37th Ave	26	S El Camino Real & 37th Ave	102	120	111		X
52	S El Camino Real & W 39th Ave	25	S El Camino Real & W 39th Ave	50	46	48		X
53	S El Camino Real & W 41st Ave	24	S El Camino Real & 42nd Ave	87	113	100	X	X
54	S El Camino Real & 43rd Ave	23	S El Camino Real & 43rd Ave	38		38		X
55	El Camino Real & Davey Glen Rd	22	El Camino Real & Davey Glen Rd	57	55	56		X
56	El Camino Real & Ralston Ave	21	El Camino Real & Ralston Ave	256	259	258	X	X
57	El Camino Real & Harbor Blvd	20	El Camino Real & Harbor Blvd	83	80	81		X
58	El Camino Real & 5th Ave/Belmont	19	El Camino Real & 5th Ave/Belmont	37	52	45		X
59	El Camino Real & Hull Dr	18	El Camino Real & Hull Dr	38	30	34		X
60	El Camino Real & San Carlos Ave	17	El Camino Real & San Carlos Ave	182	219	201	X	X
61	El Camino Real & Arroyo Ave/San Car	16	El Camino Real & Arroyo Ave/San Car	39	41	40		X
62	El Camino Real & Brittan Ave	15	El Camino Real & Brittan Ave	86	76	81	X	X
63	El Camino Real & Belmont Ave	14	El Camino Real & Belmont Ave	61	55	58		X
64	El Camino Real & Eaton Ave	13	El Camino Real & Saint Francis Wy	20	22	21		X
65	El Camino Real & Edgewood Rd	12	El Camino Real & Edgewood Rd	54	51	53	X	X
66	El Camino Real & Hopkins Ave	11	El Camino Real & Hopkins Ave	29	37	33		X

# Memorandum

SB #	Southbound Stop	NB #	Northbound Stop	SB Ons/Offs	NB Ons/Offs	Avg. NB & SB Ons/Offs	Full Rapid Stop	Hybrid Rapid Concept A Stop
67	El Camino Real & Brewster Ave	10	El Camino Real & Brewster Ave	99	91	95		X
68	El Camino Real & James Ave	9	El Camino Real & James Ave	2	74	38	X	X
69	Redwood City Caltrain Station	8	Redwood City Caltrain Station	403	375	389		X
70	El Camino Real & Jefferson Ave	7	El Camino Real & Jefferson Ave	85	156	121		X
71	El Camino Real & Lincoln Ave	6	El Camino Real & Cedar St	131	181	156	X	X
72	El Camino Real & Oak Ave	5	El Camino Real & Main St	145	130	138		X
73	El Camino Real & Center St	4	El Camino Real & Charter St	110	114	112	X	X
74	El Camino Real & 5th Ave	3	El Camino Real & 5th Ave	89	92	90	X	X
75	El Camino Real & Santa Cruz Ave	2	El Camino Real & Ravenswood Ave	76	36	56	X	X
76	Palo Alto Caltrain	1	Palo Alto Caltrain	162	362	262	X	X
Total Stops							37	76

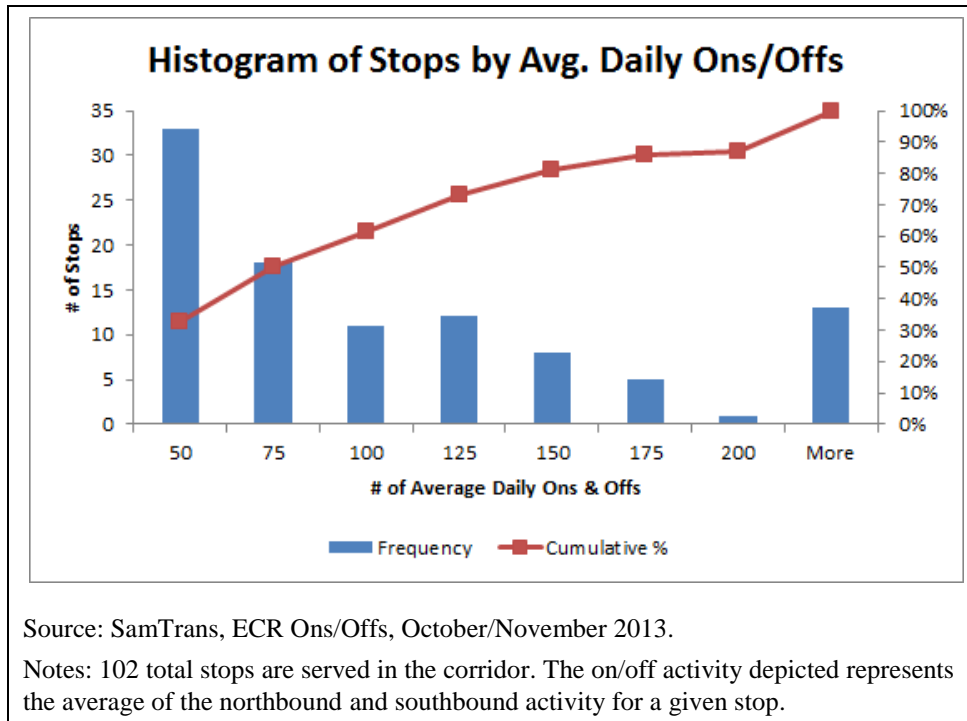
## Hybrid Rapid Concept B

As noted, the 39 additional stops included in the Hybrid Rapid Concept A within the “high demand” segments have varying levels of ridership demand, ranging from moderate to low. Reducing low productivity stops could improve travel time.

Thus, to improve operating speed and reduce travel time for the Hybrid Rapid option, a second concept (Hybrid Rapid Concept B) was proposed with fewer stops in the “high demand” segment between Brentwood Drive and Center Street between the cities of South San Francisco and Redwood City. Based on an analysis of existing on-off activity from the ECR (from October and November 2013), approximately half of all 102 stops served by the current ECR generates an average of at least 75 combined daily ons/offs as shown in Figure 1 **Error! Reference source not found.**

# Memorandum

**Figure 1: Histogram of Stops by Avg. Daily Ons/Offs**



Assuming that all 37 Rapid stops would continue to be served, applying a threshold of 75 combined daily ons/offers within the “high demand” segment between Brentwood Drive and Center Street increased the number of stops by 13 stops to 50 stops. This would equate to a stop spacing of 0.51 miles/stop compared to 0.25 miles/stop for the existing ECR and 0.69 miles/stop for the proposed Full Rapid, respectively.

If the average activity threshold was increased to 100 combined daily ons/offers, the number of stops within the “high demand” segment would be increased from the Rapid case by 8 stops for a total of 45 stops. This would equate to a stop spacing of 0.57 miles/stop.

Based on these results and to more clearly delineate between the Full Rapid and Hybrid Rapid service, an activity threshold of 75 combined daily ons/offers was selected. Again, this equates to 50 total stops served or a stop spacing of 0.51 miles/stop as opposed to 0.33 miles/stop under the Hybrid Rapid Concept A. Proposed stops for Hybrid Rapid Concept B are presented in the table below:

# Memorandum

**Table 3: Hybrid Rapid Concept B Stops**

SB #	Southbound Stop	NB #	Northbound Stop	SB Ons/Offs	NB Ons/Offs	Avg. NB & SB Ons/Offs	Full Rapid Stop	Hybrid Rapid Concept A Stop	Hybrid Rapid Concept B Stop
1	Daly City BART	76	Daly City BART	208	128	168	X	X	X
2	Mission St. & San Jose St.	75	Mission St. & San Jose St.	473	0	237	X	X	X
3	Mission St & School St	74	Mission St & Price St	217	216	216	X	X	X
4	Mission St & San Pedro Rd.	73	Mission St. & East Market	151	99	125	X	X	X
5	Colma BART	72	Colma BART	363	368	365	X	X	X
6	South San Francisco BART	71	South San Francisco BART	59	154	106	X	X	X
7	El Camino Real & Arroyo Dr/SSF	70	El Camino Real & Arroyo Dr/SSF	187	156	172	X	X	X
8	El Camino Real & W Orange Ave	69	El Camino Real & W Orange Ave	151	171	161	X	X	X
9	El Camino Real & Brentwood Dr	68	El Camino Real & Spruce Ave	163	144	154	X	X	X
10	El Camino Real & Sneath Lane	67	El Camino Real & Sneath Lane	388	405	396	X	X	X
11	El Camino Real & Hwy 380	66	El Camino Real & Hwy 380	53	0	27		X	
12	El Camino Real & San Bruno Ave W	65	El Camino Real & San Bruno Ave W	203	220	212	X	X	X
13	El Camino Real & Angus Ave W	64	El Camino Real & Angus Ave W	79	76	77		X	X
14	El Camino Real & Jenevein Ave	63	El Camino Real & Jenevein Ave	116	132	124	X	X	X
15	El Camino Real & Crystal Springs Rd	62	El Camino Real & Taylor Ave	94	83	88		X	X
16	El Camino Real & San Felipe Ave	61	El Camino Real & San Felipe Ave	76	56	66		X	
17	El Camino Real & Park Pl	60	El Camino Real & Santa Inez Ave	149	149	149	X	X	X
18	El Camino Real & Capuchino Dr	59	El Camino Real & Millwood Dr	56	67	61		X	
19	El Camino Real & Center St/Millbrae	58	El Camino Real & Center St/Millbrae	68	46	57		X	
20	El Camino Real & Meadow Glen Ave	57	El Camino Real & Meadow Glen Ave	53	55	54		X	
21	El Camino Real & Silva Ave	56	El Camino Real & Silva Ave	140	158	149	X	X	X
22	El Camino Real & Taylor Ave	55	El Camino Real & Hillcrest Blvd	92	70	81		X	X
23	El Camino Real & Chadbourne Ave	54	El Camino Real & Linden Ave	318	260	289	X	X	X
24	El Camino Real & Murchison Dr	53	El Camino Real & Murchison Dr	132	87	110		X	X
25	El Camino Real &	52	El Camino Real &	104	102	103	X	X	X



# Memorandum

SB #	Southbound Stop	NB #	Northbound Stop	SB Ons/Offs	NB Ons/Offs	Avg. NB & SB Ons/Offs	Full Rapid Stop	Hybrid Rapid Concept A Stop	Hybrid Rapid Concept B Stop
	Trousdale Dr		Trousdale Dr						
26	El Camino Real & Ray Dr	51	El Camino Real & Rosedale Ave	18	21	19		X	
27	El Camino Real & Adeline Dr	50	El Camino Real & Adeline Dr	16	16	16		X	
28	El Camino Real & Hillside Dr	49	El Camino Real & Hillside Dr	38	38	38		X	
29	El Camino Real & Easton Dr	48	El Camino Real & Easton Dr	21	18	20		X	
30	El Camino Real & Broadway/Burlingame	47	El Camino Real & Broadway/Burlingame	140	131	135	X	X	X
31	El Camino Real & Sanchez Ave	46	El Camino Real & Sanchez Ave	30	32	31		X	
32	El Camino Real & Arc Way	45	El Camino Real & Palm Dr	10	15	13		X	
33	El Camino Real & Oak Grove Ave	44	El Camino Real & Oak Grove Ave	39	33	36		X	
34	El Camino Real & Bellevue Ave	43	El Camino Real & Bellevue Ave	41	21	31		X	
35	El Camino Real & Burlingame Ave	42	El Camino Real & Burlingame Ave	120	93	107	X	X	X
36	El Camino Real & Howard Ave	41	El Camino Real & Howard Ave	86	151	118		X	X
37	N El Camino Real & Warren Rd	40	N El Camino Real & State St	67	60	63		X	
38	N El Camino Real & W Bellevue Ave	39	N El Camino Real & Grand Blvd	60	47	53		X	
39	N El Camino Real & W Poplar Ave	38	N El Camino Real & W Poplar Ave	124	127	126	X	X	X
40	N El Camino Real & El Cerrito Ave	37	N El Camino Real & Tilton Ave	148	148	148	X	X	X
41	S El Camino Real & W 2nd Ave	36	S El Camino Real & E 2nd Ave	213	222	217	X	X	X
42	S El Camino Real & W 4th Ave	35	S El Camino Real & E 5th Ave	217	250	234	X	X	X
43	S El Camino Real & W 9th Ave	34	S El Camino Real & E 9th Ave	81	69	75		X	X
44	S El Camino Real & Hobart Ave	33	S El Camino Real & 12th Ave	51	45	48		X	
45	S El Camino Real & 17th Ave	32	S El Camino Real & 17th Ave	123	137	130	X	X	X
46	S El Camino Real & W 20th Ave	31	S El Camino Real & W 20th Ave	147	163	155	X	X	X
47	S El Camino Real & W 25th Ave	30	S El Camino Real & W 25th Ave	143	132	137	X	X	X
48	S El Camino Real & 27th Ave	29	S El Camino Real & 27th Ave	57	55	56		X	

# Memorandum

SB #	Southbound Stop	NB #	Northbound Stop	SB Ons/Offs	NB Ons/Offs	Avg. NB & SB Ons/Offs	Full Rapid Stop	Hybrid Rapid Concept A Stop	Hybrid Rapid Concept B Stop
49	S El Camino Real & W 31st Ave	28	S El Camino Real & E 31st Ave	236	131	184		X	X
50	S El Camino Real & W Hillsdale Blvd	27	S El Camino Real & W Hillsdale Blvd	318	354	336	X	X	X
51	S El Camino Real & 37th Ave	26	S El Camino Real & 37th Ave	102	120	111		X	X
52	S El Camino Real & W 39th Ave	25	S El Camino Real & W 39th Ave	50	46	48		X	
53	S El Camino Real & W 41st Ave	24	S El Camino Real & 42nd Ave	87	113	100	X	X	X
54	S El Camino Real & 43rd Ave	23	S El Camino Real & 43rd Ave	38		38		X	
55	El Camino Real & Davey Glen Rd	22	El Camino Real & Davey Glen Rd	57	55	56		X	
56	El Camino Real & Ralston Ave	21	El Camino Real & Ralston Ave	256	259	258	X	X	X
57	El Camino Real & Harbor Blvd	20	El Camino Real & Harbor Blvd	83	80	81		X	X
58	El Camino Real & 5th Ave/Belmont	19	El Camino Real & 5th Ave/Belmont	37	52	45		X	
59	El Camino Real & Hull Dr	18	El Camino Real & Hull Dr	38	30	34		X	
60	El Camino Real & San Carlos Ave	17	El Camino Real & San Carlos Ave	182	219	201	X	X	X
61	El Camino Real & Arroyo Ave/San Car	16	El Camino Real & Arroyo Ave/San Car	39	41	40		X	
62	El Camino Real & Brittan Ave	15	El Camino Real & Brittan Ave	86	76	81	X	X	X
63	El Camino Real & Belmont Ave	14	El Camino Real & Belmont Ave	61	55	58		X	
64	El Camino Real & Eaton Ave	13	El Camino Real & Saint Francis Wy	20	22	21		X	
65	El Camino Real & Edgewood Rd	12	El Camino Real & Edgewood Rd	54	51	53	X	X	X
66	El Camino Real & Hopkins Ave	11	El Camino Real & Hopkins Ave	29	37	33		X	
67	El Camino Real & Brewster Ave	10	El Camino Real & Brewster Ave	99	91	95		X	X
68	El Camino Real & James Ave	9	El Camino Real & James Ave	2	74	38	X	X	X
69	Redwood City Caltrain Station	8	Redwood City Caltrain Station	403	375	389		X	X
70	El Camino Real & Jefferson Ave	7	El Camino Real & Jefferson Ave	85	156	121		X	X
71	El Camino Real & Lincoln Ave	6	El Camino Real & Cedar St	131	181	156	X	X	X
72	El Camino Real &	5	El Camino Real &	145	130	138		X	X

# Memorandum

SB #	Southbound Stop	NB #	Northbound Stop	SB Ons/Offs	NB Ons/Offs	Avg. NB & SB Ons/Offs	Full Rapid Stop	Hybrid Rapid Concept A Stop	Hybrid Rapid Concept B Stop
	Oak Ave		Main St						
73	El Camino Real & Center St	4	El Camino Real & Charter St	110	114	112	X	X	X
74	El Camino Real & 5th Ave	3	El Camino Real & 5th Ave	89	92	90	X	X	X
75	El Camino Real & Santa Cruz Ave	2	El Camino Real & Ravenswood Ave	76	36	56	X	X	X
76	Palo Alto Caltrain	1	Palo Alto Caltrain	162	362	262	X	X	X
Total Stops							37	76	50