

Caltech Seismology Lab Tour

Associated with 2023 GAGE/SAGE Community Science Workshop

Wednesday March 29 – 1:30 pm Tour

- 12:00 pm – GAGE/SAGE Workshop ends at Pasadena Convention Center (PCC)
- Make your way to Caltech, having lunch as needed (details below)
- 1:20 pm - Meet at the corner of California & Wilson outside the Seismo Lab Building (see campus map)
- 1:30 pm – Tour start

Getting there

Caltech's Seismology Lab is located ~1.4 miles southeast of the PCC.

- Route 10 bus – departs from north side of PCC approximately 12:05, 12:35, 1:05 pm (75c; \$1 also ok but no change given)
- Metro Micro On-Demand Bus – need to book ahead with the app <https://micro.metro.net/>
- Walk (~1.4 miles)
- Lyft/Uber
- Drive – recommended to park in underground lot south of Seismo Lab (see campus map)

Lunch options

- PCC area
- Bus to Lake St then walk on to Seismo Lab
- Bus to Del Mar & Holliston and then eat at Caltech cafeteria (see campus map)

Please call Beth Pratt-Sitaula (509-899-3480) if you have any questions or accessibility needs.

Route 10 Bus (there are other stops between time points)



Map Notes

Routes	Rail	Time Points	Points of Interest
10	M	A Green & Terrace Dr	1 Norton Simon Museum
20	METRO L (Gold) Line Station	B Colorado & Raymond	2 Ambassador Auditorium
40		C Lake & Colorado	3 Old Pasadena
51 52		D Lake & Del Mar	4 Pasadena Senior Center
51 Sat. Only		E Del Mar & Bonnie	5 Central Library
60		F Allen & Corson	6 City Hall
			7 Paseo Colorado/Pasadena Conference Center
			8 Playhouse District
			9 South Lake Business District
			10 California Institute of Technology (Caltech)
			11 Pasadena City College (PCC)
			12 Huntington Memorial Hospital

California Institute of Technology



GAGE/SAGE Conference Tour March 29, 2023

1:30 – 2:30pm

Agenda

Time	Location	Speaker – Topic
1:30	Group meets in courtyard outside main entrance double glass doors on the northeast corner of Wilson Ave and California Blvd (see campus map)	Welcome Dr. Michael Gurnis – Director Seismo Lab
1:35	First floor earthquake exhibit	Dr. Joann Stock/Margaret Vinci – History of the Seismo Lab; local seismicity; trenching and earthquake risk
1:50	Second Floor and Media Center	Dr. Allen Husker – monitoring earthquakes in SoCal (SCSN); Earthquake Tools including Earthquake Early Warning; current research
2:15	Basement Operations	Rayo Bhadha – maintenance and monitoring the health of the seismic stations; equipment, calibration, telemetry
2:30	End of tour	
2:30 – 3:00	Option to extend tour for those with questions or additional information	

Bus Stop

Bus Stop

Caltech
Cafeteria
Take bus to
Holliston

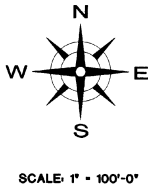
Entrance to
underground
parking

Seismology Laboratory
Northeast corner of Wilson and
California Blvd.
Meet outside here ~1:20pm.
Tour starts 1:30pm.
There is handicapper access

California Institute of Technology

Seismo Lab Address
535 S. Wilson Ave., Pasadena, CA 91106

Any problems or questions please contact:
Margaret Vinci 626-840-3005
vinci@caltech.edu



Restaurant options along Lake Street

1. Jersey Mikes, 122 S Lake (sandwiches)
2. Lemonade Restaurant, 146 S. Lake (east side below Green St) Health Food
3. Veggie Grill, 200 S Lake (Vegan)
4. Urbane Café, 218 S Lake (farm to table)
5. Urban Plates, 269 S Lake Ave (new American)
6. Granville, 270 S Lake (N/E corner Lake & Del Mar) (American)
7. Corner Bakery, 345 S Lake (near S/W corner of Del Mar and Lake)
8. CAVA, 345 S Lake Ave (Mediterranean)
9. San Sai, 350 S Lake (in the shops on Lake) Japanese
10. NODA, 546 S Lake (near corner of Lake & California) Japanese
11. Jersey Mikes

There are all kinds of restaurants on Lake Street between Green Street and California. Caltech Cafeteria is also open to visitors on the campus of Caltech (see campus map).

From Lake Avenue attendees can walk East down Del Mar Blvd., San Pasqual or California Blvd. (whichever closer to the restaurant they are at) to the Caltech campus 3 blocks to Wilson Ave and go South to California Blvd. If taking California just walk East 3 blocks.

How Transfers Work

- All transfers are exclusively on TAP. If you need to transfer to another bus line or the Metro L (Gold) Line be sure to load Stored Value onto your TAP card. No paper transfers will be issued or accepted.
- **Pasadena Transit Routes:** Pay your fare with TAP Stored Value to receive unlimited TAP boardings on Pasadena Transit within 2.5 hours.
- **Transfers Between Agencies:** Pay with TAP on the first boarding of your trip and TAP again when you transfer to another bus or the Metro L (Gold) Line. Your transfer fare will be deducted automatically from your Stored Value if made within 2.5 hours. Transfers are NOT valid for a return trip or for a continued trip on the same bus line.

Cómo hacer transbordo

- Todos las transbordos se realizan exclusivamente en TAP. Si necesita realizar un transbordo a otra línea de autobús o Metro L (Gold) Line, asegúrese de cargar el valor almacenado en su tarjeta TAP. No se emitirán ni aceptarán boletos de correspondencia “transfers” de papel.
- **Rutas de Pasadena Transit:** Pague su tarifa con TAP para recibir abordajes ilimitados en Pasadena Transit durante 2.5 horas a partir del primer abordaje.
- **Transbordos entre agencias de transporte público:** Pague con TAP al abordar y nuevamente cuando haga el transbordo a otro autobús o Metro L (Gold) Line. Su tarifa de transbordo se deducirá automáticamente de su valor almacenado si se realiza durante las 2.5 horas a partir del inicio del primer abordaje. No se permite transbordar a una ruta dos veces en ninguna de las dos direcciones.

Title VI - Notice to Beneficiaries

The City of Pasadena Transit Division, responsible for the planning and operation of Pasadena Transit and Pasadena Dial-A-Ride, is committed to ensuring that no person is excluded from participation in, or denied the benefits of, its service on the basis of race, color or national origin under Title VI of the Civil Rights Act of 1964. In addition to Title VI of the Civil Rights Act of 1964, the City of Pasadena Transit Division also prohibits discrimination based on sex, age, disability, religion, medical condition, marital status or sexual orientation. To obtain more information or to fill out a complaint form, visit http://www.cityofpasadena.net/Transportation/Public_Transit/ or call (626) 744-4055.

La División de Transporte Público de la Ciudad de Pasadena, responsable de la planificación y operación del Pasadena Transit y el Pasadena Dial-A-Ride, se ha comprometido en velar porque ninguna persona sea excluida de participar ni se le nieguen los beneficios de los servicios que se ofrecen, por motivos de raza, color u origen nacional en virtud de las disposiciones del Título VI de la Ley de Derechos Civiles de 1964. Además de las disposiciones del Título VI de la Ley de Derechos Civiles de 1964, la División de Transporte Público de la Ciudad de Pasadena prohíbe también la discriminación basada en género, edad, discapacidad, religión, problema médico, estado civil u orientación sexual. Para obtener más información o para llenar un formulario de quejas, visite http://www.cityofpasadena.net/Transportation/Public_Transit/ o llame al (626) 744-4055.

Fares (Cash & TAP Stored Value)	CASH FARE	30 DAY PASS
Regular	75 cents	\$15.00
Youth (K-12)	50 cents	\$10.00
Senior (60+)	35 cents	\$7.00
Disabled	35 cents	\$7.00
Up to two children five years and younger ride free with a fare paying adult.		

Required Identification (May Include Reduced Fare TAP Card)

- Youth in Grades 8-12 must present Student ID
- Seniors must provide proof of age
- Disabled must show ID (e.g., Medicare or Metro ID)

Passes Accepted on Pasadena Transit

EZ Transit Pass* Access Services ID

Metrolink Pass/Tickets

* For information on how to purchase an EZ Transit Pass contact Metro at (323) GOMETRO, {(323) 466-3876} or www.metro.net. The EZ Transit Pass is good for unlimited local travel on many public transit carriers in LA County

Transfers onto Pasadena Transit

Local (Pasadena Transit Buses Only)..... free
Full/Youth Inter-agency 25 cents
Senior/Disabled Inter-agency 10 cents
• Metro Buses & Metro L (Gold) Line, Foothill Transit

No Pasadena Transit service on the following holidays

New Year’s Day	Labor Day
Memorial Day	Thanksgiving Day
Independence Day (July 4th)	Christmas Day



PASADENA TRANSIT

Pasadena Transit Schedule and Real Time Information
Call 511/Go511.com

Administrative Office Transit Division
Department of Transportation
City of Pasadena
221 East Walnut Street, Suite 210
Pasadena, CA 91101
(626) 744-4055 • www.pasadenatransit.net



PASADENA TRANSIT

10

Route 10 Schedule & Map

Service Between

Allen Station
Pasadena City College (PCC)
Caltech
Old Pasadena

Metro L (Gold) Line Stations

Allen Station
Memorial Park Station

SATURDAY & SUNDAY SERVICE

Effective July 2022



Call 511/Go511.com For Real Time Transit Information



TAP Cards Accepted



All Buses Equipped With Bike Racks



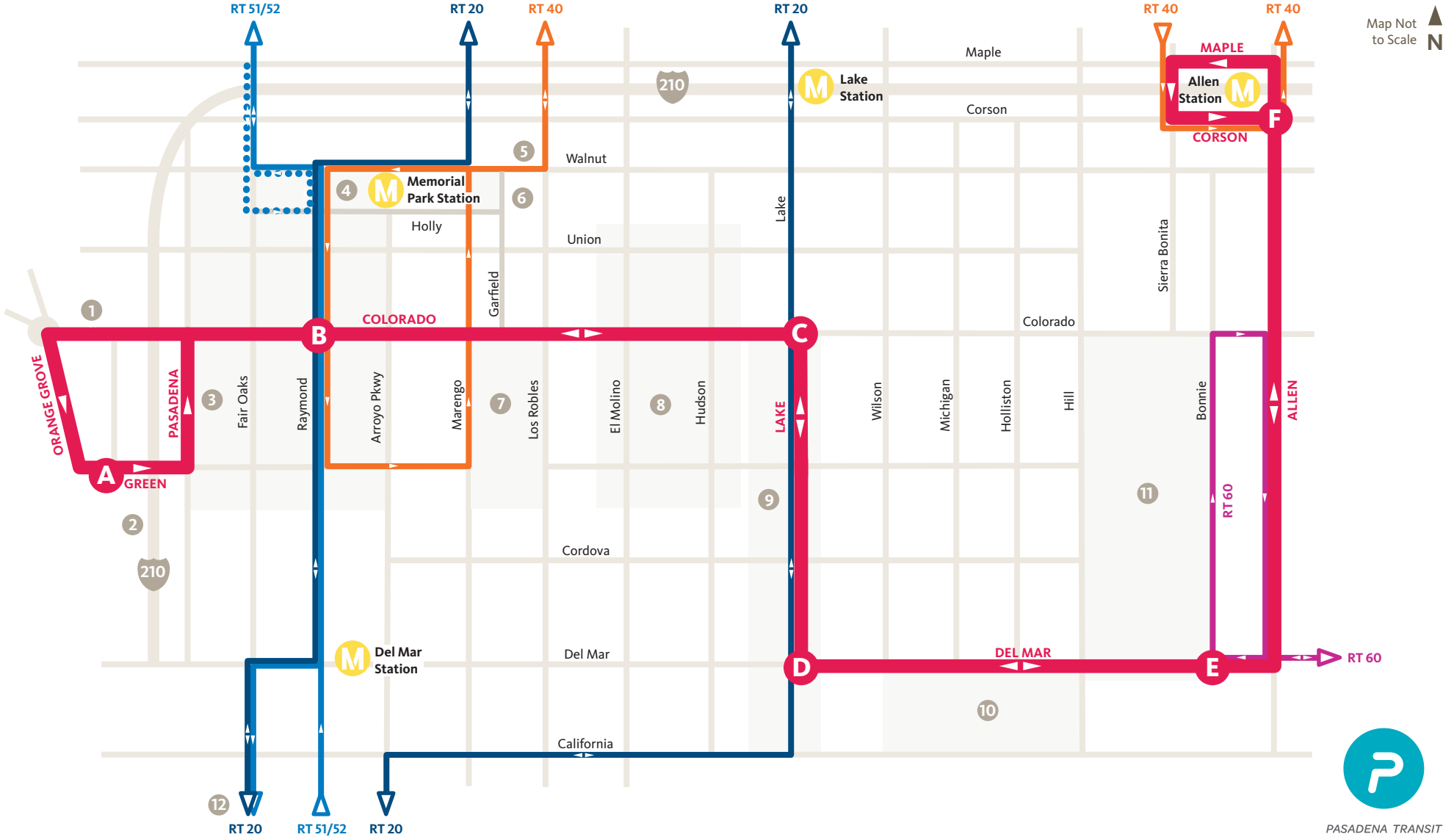
Access Is Available



No Smoking In Bus Zones PMC 8.78.071 (A)



PASADENA TRANSIT



Map Notes

Routes	Rail
10	M
20	METRO L (Gold) Line Station
40	
51 52	
51 Sat. Only	
60	

Time Points

A	Green & Terrace Dr
B	Colorado & Raymond
C	Lake & Colorado
D	Lake & Del Mar
E	Del Mar & Bonnie
F	Allen & Corson

Points of Interests

1	Norton Simon Museum
2	Ambassador Auditorium
3	Old Pasadena
4	Pasadena Senior Center
5	Central Library
6	City Hall

7	Paseo Colorado/Pasadena Conference Center
8	Playhouse District
9	South Lake Business District
10	California Institute of Technology (Caltech)
11	Pasadena City College (PCC)
12	Huntington Memorial Hospital

East

TO PASADENA CITY COLLEGE - ALLEN L (GOLD) LINE STATION

West

TO PASADENA CITY COLLEGE - OLD PASADENA

MONDAY THROUGH FRIDAY SCHEDULE

Green & Terrace	Colorado & Raymond	Lake & Colorado	Lake & Del Mar	Del Mar & Bonnie	Allen & Corson
A	B	C	D	E	F
5:47 A	5:50 A	5:54 A	5:56 A	5:59 A	6:05 A
6:12 A	6:16 A	6:20 A	6:22 A	6:25 A	6:31 A
6:37 A	6:41 A	6:45 A	6:47 A	6:50 A	6:56 A
7:03 A	7:07 A	7:12 A	7:14 A	7:17 A	7:24 A
7:30 A	7:34 A	7:39 A	7:41 A	7:44 A	7:51 A
7:59 A	8:03 A	8:08 A	8:10 A	8:13 A	8:20 A
8:29 A	8:33 A	8:38 A	8:40 A	8:43 A	8:50 A
8:59 A	9:04 A	9:10 A	9:12 A	9:15 A	9:22 A
9:29 A	9:34 A	9:40 A	9:42 A	9:45 A	9:52 A
9:59 A	10:04 A	10:11 A	10:13 A	10:16 A	10:22 A
10:29 A	10:34 A	10:41 A	10:43 A	10:46 A	10:52 A
10:59 A	11:04 A	11:11 A	11:13 A	11:16 A	11:23 A
11:29 A	11:34 A	11:41 A	11:43 A	11:46 A	11:53 A
11:59 A	12:04 P	12:11 P	12:13 P	12:16 P	12:23 P
12:29 P	12:34 P	12:41 P	12:43 P	12:46 P	12:53 P
12:59 P	1:04 P	1:11 P	1:13 P	1:16 P	1:23 P
1:29 P	1:34 P	1:41 P	1:43 P	1:46 P	1:53 P
1:59 P	2:04 P	2:11 P	2:13 P	2:17 P	2:24 P
2:29 P	2:34 P	2:41 P	2:43 P	2:46 P	2:53 P
2:59 P	3:04 P	3:11 P	3:13 P	3:16 P	3:23 P
3:29 P	3:34 P	3:41 P	3:43 P	3:46 P	3:53 P
3:59 P	4:04 P	4:10 P	4:12 P	4:15 P	4:22 P
4:29 P	4:34 P	4:40 P	4:42 P	4:45 P	4:52 P
4:59 P	5:04 P	5:10 P	5:12 P	5:15 P	5:22 P
5:29 P	5:34 P	5:40 P	5:42 P	5:45 P	5:52 P
5:59 P	6:04 P	6:10 P	6:12 P	6:15 P	6:22 P
6:29 P	6:34 P	6:41 P	6:44 P	6:48 P	6:55 P
6:59 P	7:04 P	7:11 P	7:14 P	7:18 P	7:25 P
7:25 P	7:30 P	7:36 P	7:38 P	7:41 P	7:47 P

Allen & Corson	Del Mar & Bonnie	Lake & Del Mar	Colorado & Lake	Colorado & Raymond	Green & Terrace
F	E	D	C	B	A
5:51 A	5:54 A	5:57 A	5:58 A	6:02 A	6:06 A
6:15 A	6:18 A	6:21 A	6:23 A	6:27 A	6:31 A
6:41 A	6:44 A	6:47 A	6:49 A	6:53 A	6:57 A
7:06 A	7:09 A	7:13 A	7:15 A	7:20 A	7:24 A
7:34 A	7:38 A	7:42 A	7:44 A	7:49 A	7:53 A
8:04 A	8:08 A	8:12 A	8:14 A	8:19 A	8:24 A
8:33 A	8:37 A	8:41 A	8:43 A	8:48 A	8:53 A
9:00 A	9:04 A	9:08 A	9:10 A	9:15 A	9:20 A
9:32 A	9:36 A	9:40 A	9:42 A	9:48 A	9:53 A
10:02 A	10:06 A	10:10 A	10:12 A	10:18 A	10:23 A
10:32 A	10:36 A	10:40 A	10:42 A	10:48 A	10:52 A
11:02 A	11:06 A	11:10 A	11:12 A	11:18 A	11:22 A
11:33 A	11:36 A	11:40 A	11:42 A	11:48 A	11:53 A
12:03 P	12:06 P	12:10 P	12:12 P	12:18 P	12:23 P
12:33 P	12:36 P	12:40 P	12:43 P	12:49 P	12:54 P
1:03 P	1:06 P	1:10 P	1:13 P	1:19 P	1:24 P
1:33 P	1:36 P	1:40 P	1:43 P	1:49 P	1:54 P
2:06 P	2:09 P	2:13 P	2:15 P	2:21 P	2:26 P
2:37 P	2:40 P	2:44 P	2:46 P	2:52 P	2:57 P
3:03 P	3:06 P	3:10 P	3:12 P	3:18 P	3:23 P
3:33 P	3:36 P	3:40 P	3:42 P	3:48 P	3:53 P
4:03 P	4:07 P	4:11 P	4:13 P	4:19 P	4:24 P
4:32 P	4:36 P	4:40 P	4:42 P	4:48 P	4:53 P
5:02 P	5:06 P	5:10 P	5:12 P	5:18 P	5:23 P
5:32 P	5:35 P	5:39 P	5:41 P	5:47 P	5:52 P
6:02 P	6:05 P	6:09 P	6:11 P	6:17 P	6:22 P
6:32 P	6:35 P	6:39 P	6:41 P	6:47 P	6:52 P
7:05 P	7:08 P	7:12 P	7:14 P	7:20 P	7:25 P
7:35 P	7:38 P	7:42 P	7:44 P	7:50 P	7:55 P
7:57 P	8:00 P	8:04 P	8:06 P	8:12 P	8:17 P

East

TO PASADENA CITY COLLEGE - ALLEN L (GOLD) LINE STATION

West

TO PASADENA CITY COLLEGE - OLD PASADENA

East

TO PASADENA CITY COLLEGE - ALLEN L (GOLD) LINE STATION

West

TO PASADENA CITY COLLEGE - OLD PASADENA

SATURDAY SCHEDULE

Green & Terrace	Colorado & Raymond	Lake & Colorado	Lake & Del Mar	Del Mar & Bonnie	Allen & Corson	Allen & Corson	Del Mar & Bonnie	Lake & Del Mar	Colorado & Lake	Colorado & Raymond	Green & Terrace
A	B	C	D	E	F	F	E	D	C	B	A
10:46 A	10:51 A	10:56 A	10:58 A	11:01 A	11:07 A	11:22 A	11:25 A	11:28 A	11:30 A	11:36 A	11:41 A
11:16 A	11:21 A	11:27 A	11:29 A	11:32 A	11:38 A	11:51 A	11:54 A	11:57 A	11:59 A	12:05 P	12:10 P
11:46 A	11:51 A	11:57 A	11:59 A	12:02 P	12:08 P	12:21 P	12:24 P	12:28 P	12:30 P	12:36 P	12:41 P
12:16 P	12:22 P	12:28 P	12:30 P	12:33 P	12:39 P	12:52 P	12:55 P	12:59 P	1:01 P	1:07 P	1:12 P
12:46 P	12:52 P	12:58 P	1:00 P	1:03 P	1:09 P	1:22 P	1:25 P	1:28 P	1:30 P	1:37 P	1:42 P
1:16 P	1:22 P	1:28 P	1:30 P	1:33 P	1:39 P	1:52 P	1:55 P	1:58 P	2:00 P	2:07 P	2:13 P
1:46 P	1:52 P	1:58 P	2:00 P	2:03 P	2:09 P	2:23 P	2:26 P	2:29 P	2:31 P	2:38 P	2:44 P
2:16 P	2:22 P	2:28 P	2:30 P	2:33 P	2:40 P	2:52 P	2:55 P	2:58 P	3:00 P	3:07 P	3:13 P
2:46 P	2:52 P	2:58 P	3:00 P	3:03 P	3:10 P	3:23 P	3:26 P	3:29 P	3:31 P	3:38 P	3:44 P
3:16 P	3:22 P	3:28 P	3:30 P	3:33 P	3:39 P	3:52 P	3:55 P	3:58 P	4:00 P	4:07 P	4:13 P
3:46 P	3:52 P	3:58 P	4:00 P	4:03 P	4:09 P	4:22 P	4:25 P	4:28 P	4:30 P	4:37 P	4:43 P
4:16 P	4:22 P	4:28 P	4:30 P	4:33 P	4:39 P	4:52 P	4:55 P	4:58 P	5:00 P	5:07 P	5:13 P
4:46 P	4:52 P	4:58 P	5:00 P	5:03 P	5:09 P	5:22 P	5:25 P	5:28 P	5:30 P	5:37 P	5:43 P
5:16 P	5:22 P	5:28 P	5:30 P	5:33 P	5:40 P	5:53 P	5:56 P	5:59 P	6:01 P	6:08 P	6:14 P
5:46 P	5:52 P	5:57 P	5:59 P	6:02 P	6:09 P	6:22 P	6:25 P	6:28 P	6:30 P	6:37 P	6:43 P
6:16 P	6:22 P	6:27 P	6:29 P	6:32 P	6:39 P	6:52 P	6:55 P	6:58 P	7:00 P	7:07 P	7:12 P
6:46 P	6:52 P	6:57 P	6:59 P	7:02 P	7:08 P	7:21 P	7:24 P	7:27 P	7:29 P	7:36 P	7:41 P
7:16 P	7:22 P	7:27 P	7:29 P	7:32 P	7:38 P	7:51 P	7:54 P	7:57 P	7:59 P	8:06 P	8:11 P
7:45 P	7:51 P	7:56 P	7:58 P	8:00 P	8:06 P						

SUNDAY SCHEDULE

Green & Terrace	Colorado & Raymond	Lake & Colorado	Lake & Del Mar	Del Mar & Bonnie	Allen & Corson	Allen & Corson	Del Mar & Bonnie	Lake & Del Mar	Colorado & Lake	Colorado & Raymond	Green & Terrace
A	B	C	D	E	F	F	E	D	C	B	A
8:16 A	8:21 A	8:26 A	8:28 A	8:31 A	8:37 A	8:25 A	8:28 A	8:31 A	8:33 A	8:39 A	8:44 A
8:46 A	8:51 A	8:56 A	8:58 A	9:01 A	9:07 A	8:52 A	8:55 A	8:58 A	9:00 A	9:06 A	9:11 A
9:16 A	9:21 A	9:26 A	9:28 A	9:31 A	9:37 A	9:20 A	9:23 A	9:26 A	9:28 A	9:34 A	9:39 A
9:46 A	9:51 A	9:56 A	9:58 A	10:01 A	10:07 A	9:50 A	9:53 A	9:56 A	9:58 A	10:04 A	10:09 A
10:15 A	10:20 A	10:25 A	10:27 A	10:30 A	10:36 A	10:20 A	10:23 A	10:26 A	10:28 A	10:34 A	10:39 A
10:45 A	10:50 A	10:55 A	10:57 A	11:00 A	11:06 A	10:49 A	10:52 A	10:55 A	10:57 A	11:03 A	11:08 A
11:15 A	11:20 A	11:26 A	11:28 A	11:31 A	11:37 A	11:19 A	11:22 A	11:25 A	11:27 A	11:33 A	11:38 A
11:45 A	11:50 A	11:56 A	11:58 A	12:01 P	12:07 P	11:51 A	11:54 A	11:57 A	11:59 A	12:05 P	12:10 P
12:15 P	12:20 P	12:26 P	12:28 P	12:31 P	12:37 P	12:19 P	12:22 P	12:25 P	12:27 P	12:33 P	12:38 P
12:44 P	12:50 P	12:56 P	12:58 P	1:01 P	1:07 P	12:50 P	12:53 P	12:56 P	12:58 P	1:04 P	1:09 P
1:14 P	1:20 P	1:26 P	1:28 P	1:31 P	1:37 P	1:20 P	1:23 P	1:26 P	1:28 P	1:35 P	1:40 P
1:44 P	1:50 P	1:56 P	1:58 P	2:01 P	2:08 P	1:50 P	1:53 P	1:56 P	1:58 P	2:05 P	2:10 P
2:14 P	2:20 P	2:26 P	2:28 P	2:31 P	2:38 P	2:21 P	2:24 P	2:27 P	2:29 P	2:36 P	2:41 P
2:44 P	2:50 P	2:56 P	2:58 P	3:01 P	3:07 P	2:51 P	2:54 P	2:57 P	2:59 P	3:06 P	3:12 P
3:14 P	3:20 P	3:26 P	3:28 P	3:31 P	3:37 P	3:20 P	3:23 P	3:26 P	3:28 P	3:35 P	3:41 P
3:44 P	3:50 P	3:56 P	3:58 P	4:01 P	4:07 P	3:50 P	3:53 P	3:56 P	3:58 P	4:05 P	4:11 P
4:14 P	4:20 P	4:26 P	4:28 P	4:31 P	4:37 P	4:20 P	4:23 P	4:26 P	4:28 P	4:35 P	4:41 P
4:44 P	4:50 P	4:56 P	4:58 P	5:01 P	5:08 P	4:50 P	4:53 P	4:56 P	4:58 P	5:05 P	5:11 P

Important Tips for Catching the Bus

- Arrive at the bus stop five to ten minutes early.
- Wait on the sidewalk by the bus stop sign, away from the curb.
- Signal the bus operator to stop for you by waving at the bus as it approaches the stop.

Safety Tips

- Use handrails when boarding and when walking to your seat.
- Remain seated while the bus is in motion.
- Smoking, drinking and eating are prohibited on all buses.

- 1

The bus will go out of service at Colorado & De Lacey at 7:40 pm
- 2

The bus will go out of service at Colorado & De Lacey at 8:02 pm

Time Points

A

- Time points show when the bus will depart from a designated stop along the route.
- Time points show only some of the stops on the bus route. There are other bus stops for the route that are not shown on this schedule.

- 3

The bus will go out of service at Colorado & De Lacey at 7:51 pm
- 4

The bus will go out of service at Colorado & De Lacey at 8:08 pm

