



for the City of Beverly Hills

August 2006

Prepared for:

City of Beverly Hills **Mass Transit Committee**

Prepared by:



OUTLINE

SUBWAY DESIGN BASICS

ALIGNMENT OPTIONS FOR THE RED LINE EXTENSION

CHARACTERISTICS OF POTENTIAL STATIONS

- LAND USES WITHIN ¼ MILE RADIUS
- EXISTING TRAFFIC AND TRANSIT CONDITIONS

OTHER ISSUES

- ECONOMIC IMPACTS
- CONSTRUCTION
- SECURITY

SUBWAY DESIGN BASICS

- Stations are generally 1 mile apart.
- 2 stations are likely in Beverly Hills.
- \$250 to 300 million per mile construction cost. (includes 1 station)
- Should locate where transit ridership potential is highest.
- Nearest anticipated stations outside of Beverly Hills:

Fairfax & Wilshire to the east (assuming a Wilshire alignment)
West Hollywood to the northeast (assuming a Santa Monica BI &
San Vicente alignment)

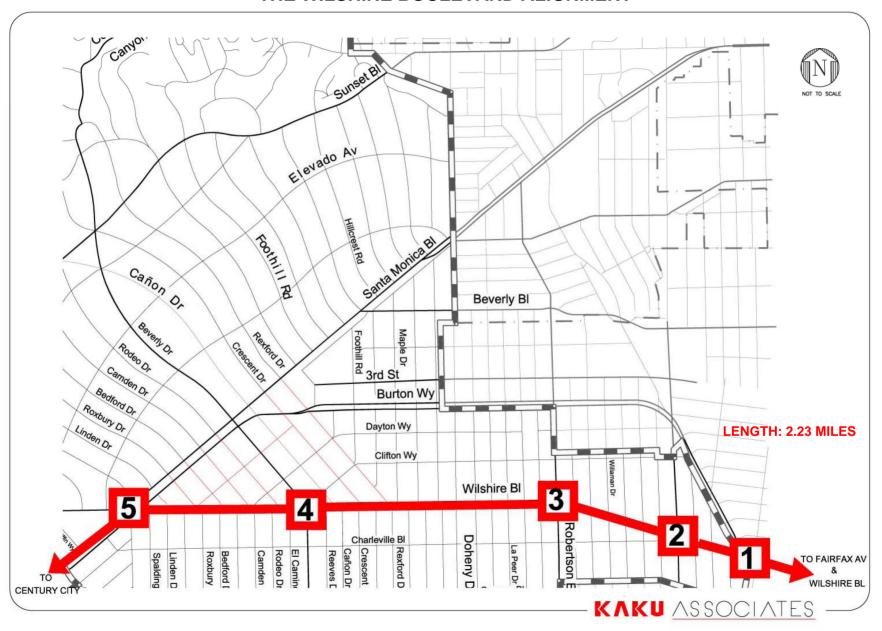
Century City to the west (assuming all alignments)

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The Wilshire Boulevard Alignment:

- From Wilshire BI & Western Ave
- Potential Stations in Beverly Hills:
 - San Vicente Boulevard & Wilshire Boulevard
 La Cienega Boulevard & Wilshire Boulevard
 or
 - 3. Robertson Boulevard & Wilshire Boulevard AND
 - 4. Beverly/Rodeo Drives & Wilshire Boulevard or
 - 5. Santa Monica Boulevard & Wilshire Boulevard

OPTION A THE WILSHIRE BOULEVARD ALIGNMENT



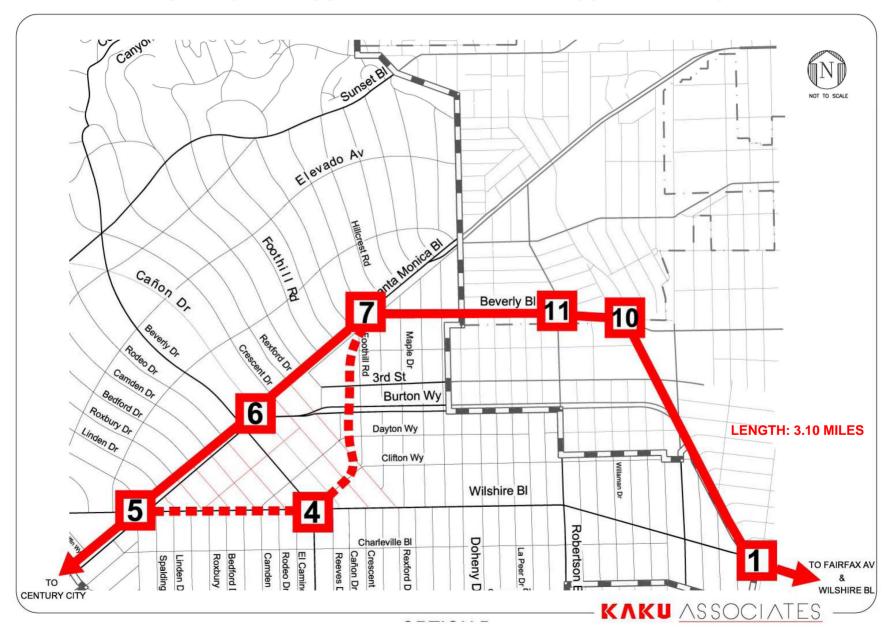
OPTION B.

The San Vicente Boulevard and Beverly Boulevard Alignment:

- From Wilshire BI & Western Ave
- Potential Stations:

 San Vicente Boulevard & Wilshire Boulevard 	or
10. San Vicente Boulevard & Beverly Boulevard	or
11. Robertson Boulevard & Beverly Boulevard	or
7. Beverly Boulevard & Santa Monica Boulevard	
AND	
4. Beverly/Rodeo Drives & Wilshire Boulevard	or
6. Beverly/Rodeo Drives & Santa Monica Boulevard	or
5. Santa Monica Boulevard & Wilshire Boulevard	

OPTION B
THE SAN VICENTE BOULEVARD AND BEVERLY BOULEVARD ALIGNMENT



OPTION C.

The San Vicente Boulevard and Santa Monica Boulevard Option:

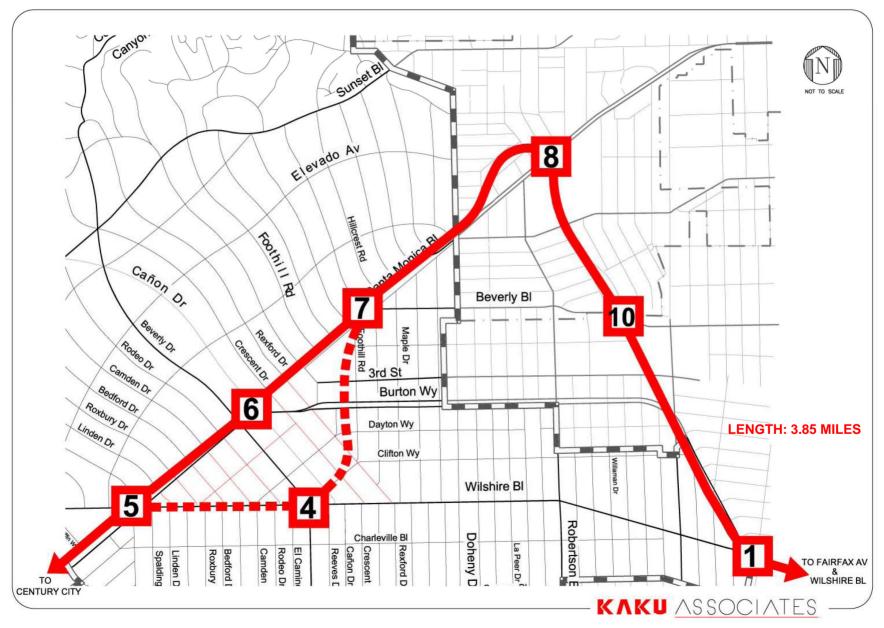
- From Wilshire BI & Western Ave
- Potential Stations:
 - San Vicente Boulevard & Wilshire Boulevard or
 San Vicente Boulevard & Beverly Boulevard or
 San Vicente Boulevard & Santa Monica Boulevard or
 Beverly Boulevard & Santa Monica Boulevard AND
 Beverly/Rodeo Drives & Wilshire Boulevard or

or

6. Beverly/Rodeo Drives & Santa Monica Boulevard

Santa Monica Boulevard & Wilshire Boulevard

OPTION C
THE SAN VICENTE BOULEVARD AND SANTA MONICA BOULEVARD ALIGNMENT

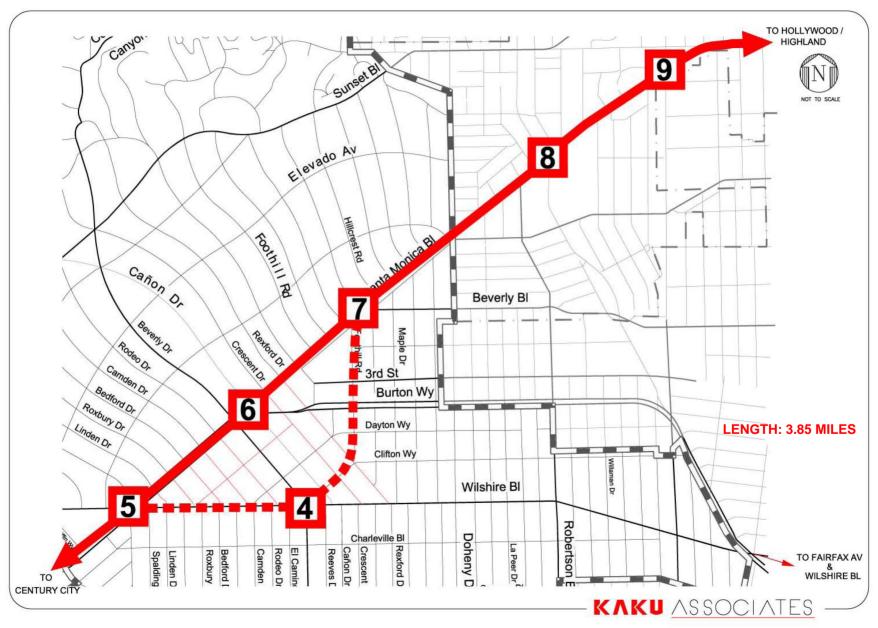


OPTION D.

The Santa Monica Boulevard Option:

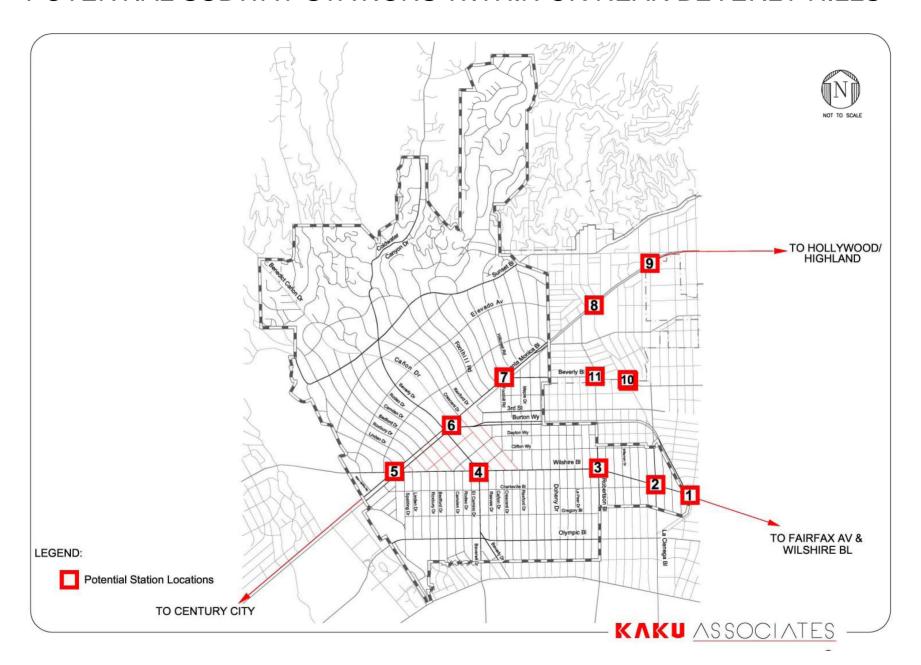
- From Hollywood Bl & Highland Ave
- Potential Stations:
 - La Cienega Boulevard & Santa Monica Boulevard or
 San Vicente Boulevard & Santa Monica Boulevard or
 Beverly Boulevard & Santa Monica Boulevard AND
 - 4. Beverly/Rodeo Drives & Wilshire Boulevard or
 - 6. Beverly/Rodeo Drives & Santa Monica Boulevard or
 - Santa Monica Boulevard & Wilshire Boulevard

OPTION D
THE SANTA MONICA BOULEVARD ALIGNMENT



CHARACTERISTICS OF POTENTIAL STATIONS

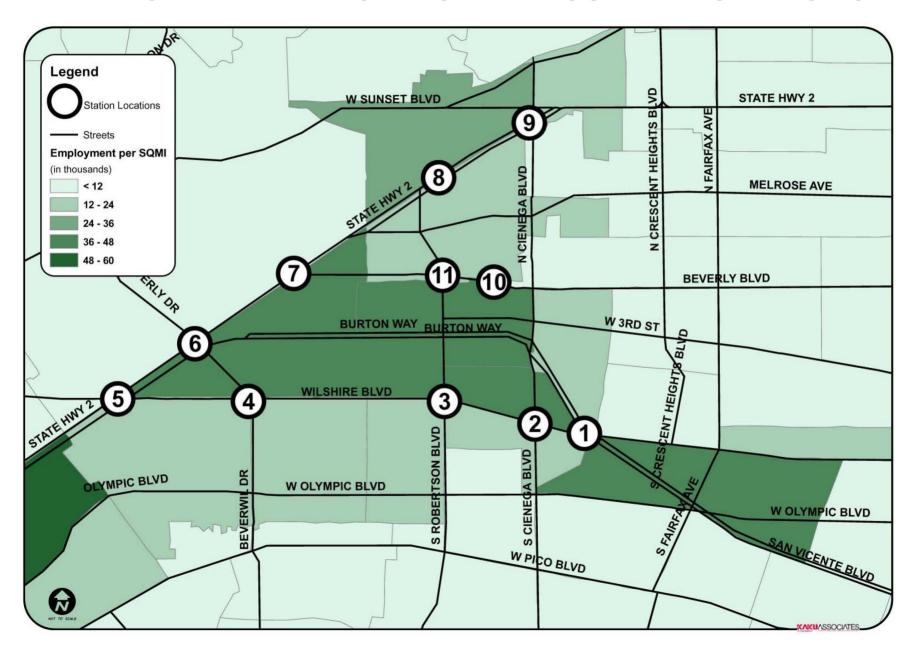
POTENTIAL SUBWAY STATIONS WITHIN OR NEAR BEVERLY HILLS



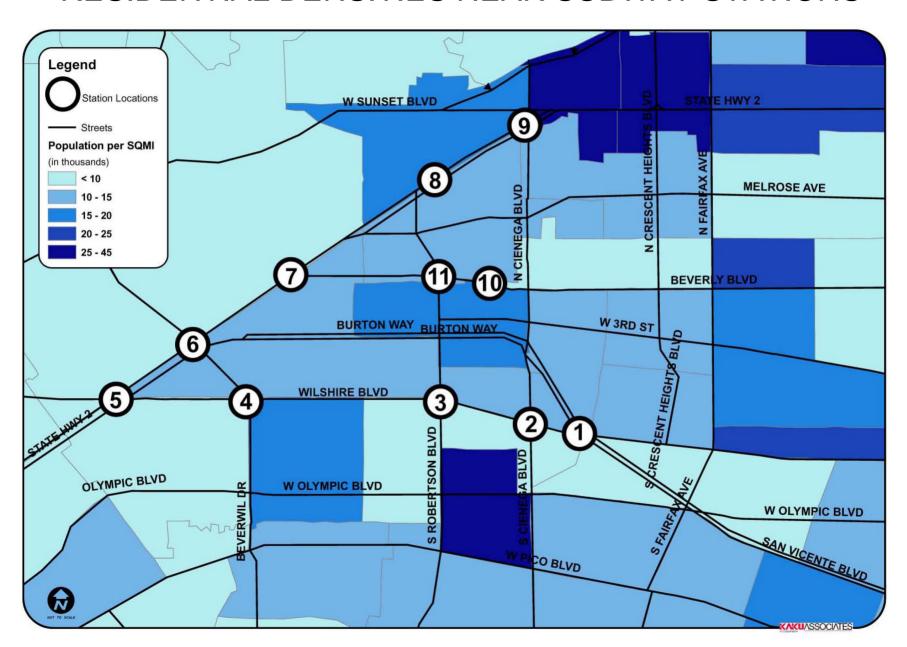
DISTANCES BETWEEN STATION LOCATIONS

	FAIRFAX & WILSHIRE	1. San Vicente & Wilshire	2. La Cienega & Wilshire	3. Robertson & Wilshire	4. Beverly Dr & Wilshire	5. Santa Monica & Wilshire	6. Beverly Dr & Santa Monica	7. Beverly BI & Santa Monica	8. San Vicente 9 & Santa Monica). La Cienega & Santa Monica	10. San Vicente & Beverly Bl	11. Robertson & Beverly Bl	CENTURY CITY
FAIRFAX & WILSHIRE	0	0.6	1	1.3	2.2	3	2.5	2.2	2	2	1.25	1.6	3.3
1. San Vicente & Wilshire	0.6	0	0.4	0.7	1.6	2.4	2	1.6	1.6	1.8	1	1.1	2.7
2. La Cienega & Wilshire	1	0.4	0	0.3	1.2	2	1.6	1.4	1.4	1.7	0.8	1	2.3
3. Robertson & Wilshire	1.3	0.7	0.3	0	1	1.7	1.2	1	1.2	1.6	0.7	0.7	2
4. Beverly Dr & Wilshire	2.2	1.6	1.2	1	0	0.6	0.4	0.7	1.5	2	1.3	1.2	1.1
5. Santa Monica & Wilshire	3	2.4	2	1.7	0.6	0	0.5	1.1	2	2.5	2	1.5	0.6
6. Beverly Dr & Santa Monica	2.5	2	1.6	1.2	0.4	0.5	0	0.6	1.4	2	1.4	1.2	1.1
7. Beverly BI & Santa Monica	2.2	1.6	1.4	1	0.7	1.1	0.6	0	0.8	1.4	1	0.7	1.7
8. San Vicente & Santa Monica	2	1.6	1.4	1.2	1.5	2	1.4	0.8	0	0.5	0.6	0.5	2.6
9. La Cienega & Santa Monica	2	1.8	1.7	1.6	2	2.5	2	1.4	0.5	0	1	1	3.1
10. San Vicente & Beverly Bl	1.25	1	0.8	0.7	1.3	2	1.4	1	0.6	1	0	0.25	2.5
11.Robertson & Beverly Bl	1.6	1.1	1	0.7	1.2	1.5	1.2	0.6	0.5	1	0.25	0	2.3
CENTURY CITY	3.3	2.7	2.3	2	1.1	0.6	1.1	1.7	2.6	3.1	2.5	2.3	0

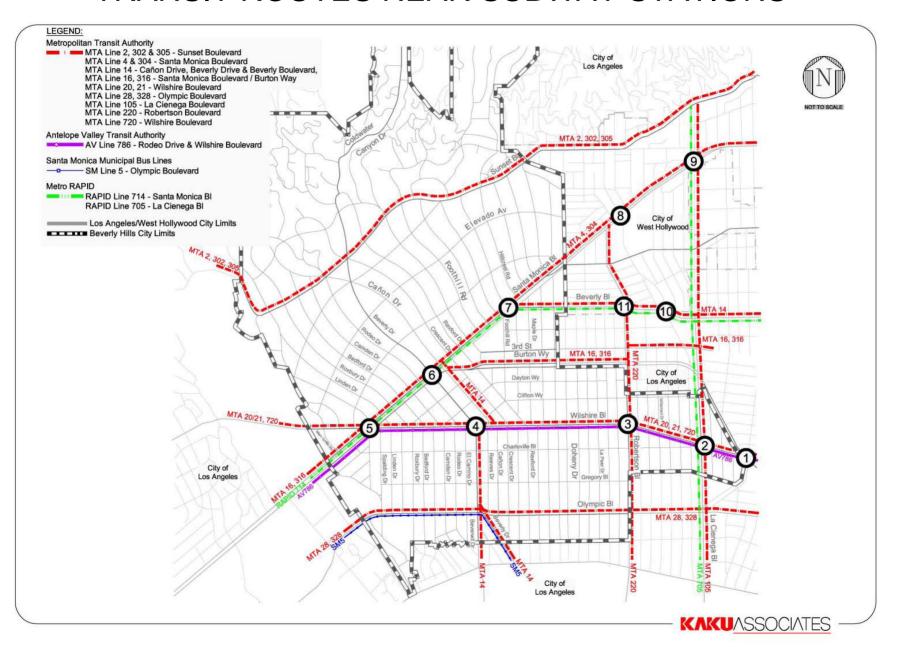
EMPLOYMENT DENSITIES NEAR SUBWAY STATIONS



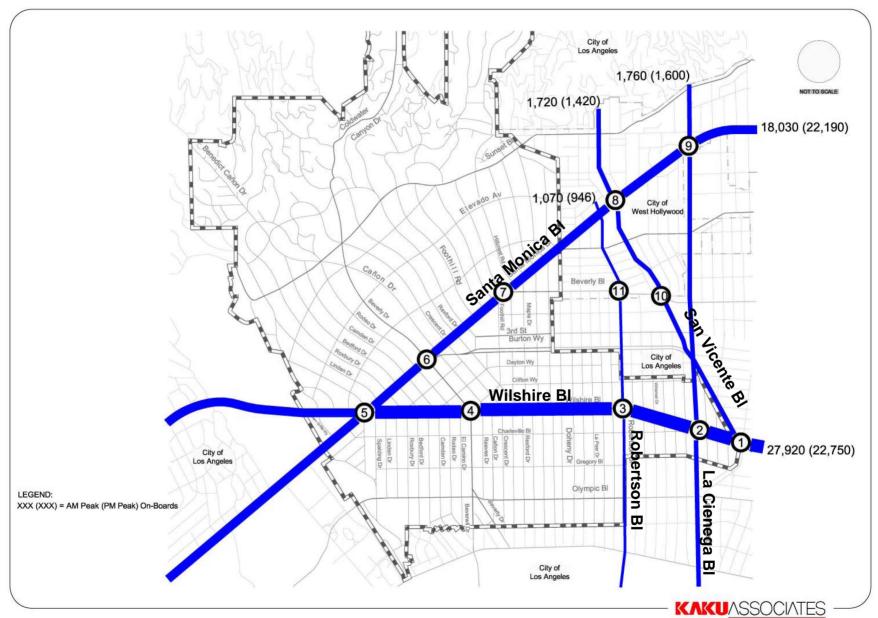
RESIDENTIAL DENSITIES NEAR SUBWAY STATIONS



TRANSIT ROUTES NEAR SUBWAY STATIONS



EXISTING TRANSIT RIDERSHIP BY MAJOR STREET



EXISTING TRANSIT RIDERSHIP BY STATION LOCATIONS

STATION LOCATIONS	AM PEAK ON-BOARDS [a]	PM PEAK ON-BOARDS		
San Vicente Boulevard & Wilshire Boulevard	836	891		
2. La Cienega Boulevard & Wilshire Boulevard	5,908	5,029		
3. Robertson Boulevard & Wilshire Boulevard	5,637	4,614		
4. Beverly/Rodeo Drives & Wilshire Boulevard	10,013	8,130		
5. Santa Monica Boulevard & Wilshire Boulevard	4,869	4,483		
6. Beverly/Rodeo Drives & Santa Monica Boulevard	5,694	7,080		
7. Beverly Boulevard & Santa Monica Boulevard	1,706	2,025		
8. San Vicente Boulevard & Santa Monica Boulevard	4,350	5,132		
9. La Cienega Boulevard & Santa Monica Boulevard	1,210	1,494		
10. San Vicente Boulevard & Beverly Boulevard	3,043	2,671		
11. Robertson Boulevard & Beverly Boulevard	996	1,006		

On-boards are counts of the number of passengers on the bus at stops along the route.

Because many passengers are double-counted, the figures here only provide relative transit use measures.

[[]a] Data include passengers on board for all bus stops within a 1/4 mile radius of the potential station.

STATION 1 SAN VICENTE BOULEVARD AND WILSHIRE BOULEVARD



- •Less than half the ¼ mile radius includes lines of Beverly Hills and Los
- Onlyvo!6 high from Fantaxtiave.
- Currently ill-suited for pedestrians and •3/4 mile/frem Beverly Center
- & Cedars-Sinai. Vehicle LOS good
- •Wideomightspeed intersection.
- METRO 20, 21, & 720 along Wilshire •III-suited for pedestrians.
- •Vehicle LOS is good.
- •Feeder buselong Wilshire Bl
 - Metro 20, 21, & 720 along Wilshire BI
 - Metro 305, 550 along San Vicente Bl
 - AV 786 along Wilshire Bl
- AM Peak On-Boards: 836
- •PM Peak On-Boards: 891

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STATION 1 SAN VICENTE BOULEVARD AND WILSHIRE BOULEVARD



Bank of America & northwest pedestrian island



Southeast pedestrian crossing



View of northeast & San Vicente



Low density to the northeast



View of north corner from east



View of northwest side of intersection



North pedestrian crossing



View of north



STATION 2 LA CIENEGA BOULEVARD AND WILSHIRE BOULEVARD



- •Approximately 1 mile from Fairfax Ave.
- . Restaurant Row to north along La
- •3/4 Miles South of Cedars-Sinai
- & Beverly Center.
- Multiple family dwelling units to north
- •Restatible of to north along La
- Cienega Bl.

 Single family dwelling units to south of
- •Multiple family dwelling units to north of Wilshire BI & single family dwelling
 Small commercial buildings & two
- •Commercialianoffice buildings school to southeast on Charleville BI •Horace Mann Elementary School to
- southerast on Charleville Reekdays between 7 & 9 AM, 4 & 6 PM, and on
- Velvietek e.Q.S. poedweenweek 6a78/1. between 7 and 9 AM, 4 and 6 PM, & on weekends between 4 and 6 PM.
- •Feeder buses 20, 21, & 720 along ฟ้าไร้ก็เกีย BI •Metro 20, 21, & 720 along
 - ₩世钟時 時5 along La Cienega BI •Metro 105 along La Cienega BI
 - ANV78862410099WWishingeBBI

•AM Peak On-Boards: 5,908 •PM Peak On-Boards: 5,029

Source: 2005 Google

STATION 2 LA CIENEGA BOULEVARD AND WILSHIRE BOULEVARD



Eastern View of La Cienega



Northeast view & entrance to restaurant row





North view of intersection



Nearby residential area to west



South pedestrian crossing & the Flynt publishing building Westerly view of Wilshire & pedestrian activity



Northeast corner office buildings



Residential area just south of Wilshire



STATION 3 ROBERTSON BOULEVARD AND WILSHIRE BOULEVARD



- •34 mile south of Cedars-Sinai & Beverly Center.
- Small retail along Robertson to north
 - •1.3 miles from Fairfax & Wilshire.
- Horace Mann Elementary School to the
- south on Charleville Bl •Small retail along Robertson to
- Wentele LOS is fair
- Feeder buses:
 •Bus service is not as good as on La METRO & BP1, & 720 along Wilshire BI
 - METRO 220 along Robertson BI
- •Horace Mann Elementary School to the south on Charleville Bl.
- Vehicle LOS is fair.
- •Feeder buses:
 - •Metro 20, 21, & 720 along Wilshire
 - •Metro 220 along Robertson Bl
 - •AV 786 along Wilshire Bl

•AM Peak On-Boards: 5,637

•PM Peak On-Boards: 4,614



STATION 3 ROBERTSON BOULEVARD AND WILSHIRE BOULEVARD



Easterly View on Wilshire BI



Vehicle storage on NE corner



View south of intersection



View south of Robertson BI



Westerly view on Wilshire BI



STATION 4 BEVERLY/RODEO DRIVE AND WILSHIRE BOULEVARD



- •1.1 mile to Century City station.
- · On the south edge of business triangle
- Serves South Beverly Dr.
 Pedestrian-oriented
- •Subway riders likely to walk urther beyond ¼ mi radius in
- plaestrident reach business triangle triangle.
- Rodeo Dr and Via Rodeo one block west
- Noting resilide it customers /
- employees can reach business triangle.
- Feeder buses:
- Vehicle Co, is fair 720 along Wilshire BI
- Q14 from Beverly BI, through N. a Bl & Canon Dr south to , 21, & 720 along
 - AV-Medical of a driving Beverely BI, through N. Santa Monica Bl and Canon Dr south to Beverly Dr •AV 786 along Wilshire BI

•AM Peak On-Boards: 10,013 •PM Peak On-Boards: 8,130

Source: 2005 Google



STATION 4 BEVERLY/RODEO DRIVE AND WILSHIRE BOULEVARD



Business Triangle at Beverly Dr & Dayton Wy



Development at Beverly Dr & Wilshire BI



Easterly view of Wilshire BI



Pedestrian crossings in Business Triangle at Dayton Wy



Via Rodeo just one block from Beverly Dr on Wilshire BI



View south of Wilshire BI



Westerly pedestrian environment along Wilshire BI



South Beverly Dr commercial area



STATION 5 SANTA MONICA BOULEVARD AND WILSHIRE BOULEVARD



- On the western edge of the business triangle
- 1/4 Onile radius 1/2 aprilleres dials includes business a strictal portion of business triangle.
- •Only 0.6 mile to anticipated Century City station. •Potential link to Robinson's-May site.
- · Complexintersestion
- Vacant railroad right-of-way on southwest corner.
 Electric West corner.

- •El Rodeo Elementary School to northwest. •▼Erlere icos yotai weektatys setweener and 9 AM, 4 and 6 PM, & on weekends between 4 on
- •Feeder buses:
- Vehindretro 2000211, were volument of the behalf of the state of the behalf of the state of the behalf of the behal
- Feeder buses: BI
 - Metro Rapid 104 plannad from down to Santa Monica via Santa Monica Via Santa Monica via Santa Monica
 - Metro 16 from N. Santa Monica to
 - RHETERO Rapid 704 planned from downtown Live Mangalet Albanta Mangalet MAChita6Ballong Wilshire Bl to N. Santa Monica BI
- •AMTP PART BOARDS 164 FROM N. Santa Monica to •PM Peak On-Boards: 4,483
 - METRO 4, 304 along N. Santa Monica Bl
 - AV 786 along Wilshire BI to N. Santa Monica BI

Source: 2005 Google



STATION 5 SANTA MONICA BOULEVARD AND WILSHIRE BOULEVARD



Early view of N Santa Monica BI



Robinson's-May parking structures on SW Corner



Northeast view of intersection



Northerly view of S Santa Monica BI



Northerly view & Fountain



Northwesterly view & Trader Vic's restaurant



Southerly view on S Santa Monica Bl & Starbucks



View northeast of S Santa Monica BI & pedestrian island



View of Wilshire extending North



View southeast at S Santa Monica BI



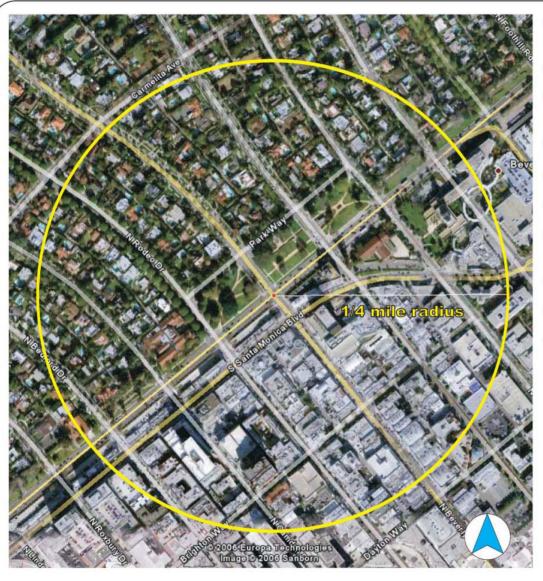
West



Robinson's -May site



STATION 6 BEVERLY DRIVE AND SANTA MONICA BOULEVARD



Source: 2005 Google

- Beverly Garden Park facilities & administrative
- •Suffice Pridershikely to walk beyond 1/4 mi
- •radius in pedestrian-oriented business ent park triangle.
- •1Plankileittoa@ehburtyw@etynstatfoamta Monica BI &
- Overtham the indeation of reduces low-density
- •single-family residences •Serves the Civic Center.
- •Bever transfer than demonstrated facilities on north.
- Non-resident transit riders may frequent park.
 Subway patrons likely to walk further
 Non-resident customers / employees can
- •reach-besithestschaloghers / employees can reach
- Albustine by divanced eparking structures on south.
- Vehicle LOS poor weekdays from 4 to 6 PM.
 Abuts City-owned parking structures on south
 Feeder buses:
- Vehichetrost 6031 60 freholdly stanta Moonic & BI
- to Burton Wy
 Feeder buses:
 Metro 14 from Beverly BI, through N.
 - Santa Rionica Bi anico Calvo Santa dutonica BEVERIB DOTON Wy
 - Metro Rapid 3714 from Nr. Santa Monica BI BI to Beverly BI
 - METORAPH FOR PRAYER FUNTH OUGH N. de Wille Me Lies Angeles 10 Barta Michilea

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 METORAPH FOR PRAYER WILLIAM TO THE MICHILEA

 METORAPH FOR PRAYER FOR PRAYER WILLIAM TO THE MICHILEA

 METORAPH FOR PRAYER WILLIAM TO T via Santa Monica Bl
 - METRO Rapid 714 from N. Santa
- AM Peak Oin Boat of Se5 694 Bl
- •PM Peak On-Boards: 7,080 Planned from downtown Los Angeles to Santa Monica via Santa Monica Bl

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6. BEVERLY DRIVE AND SANTA MONICA BOULEVARD

STATION 6 BEVERLY DRIVE AND SANTA MONICA BOULEVARD



Beverly garden park



Southwesterly view of intersection



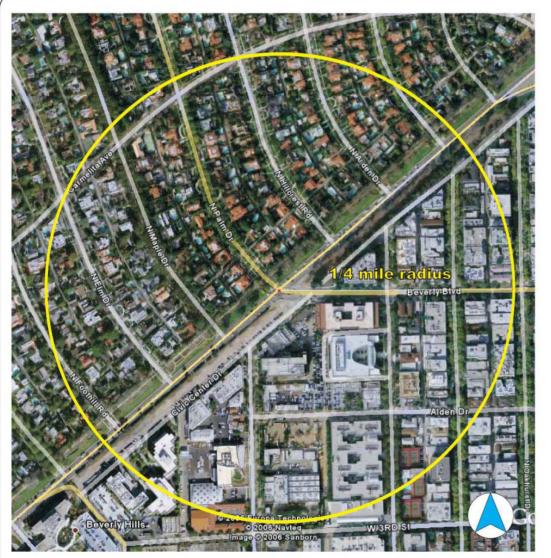
View of Business Triangle to South



View of Santa Monica BI to southwest



STATION 7 BEVERLY BOULEVARD AND SANTA MONICA BOULEVARD



- Desirking etvip the busines Strategler to Beverly Bl along Civic Center Dr to south
- •Parking strip to Beverly Bl along Civic Center ூர் இத்தூழ்துள்ளார்
- Haffamerly निर्वापक महाविश्व करां प्रविश्व के निर्वापक विश्व करां प्रविश्व के निर्वापक विश्व करां प्रविश्व के निर्वापक विश्व करां प्रविश्व के निर्वापक करां प्रविश्व करां प्रव करां प्रविश्व करां प्रव करां प्रविश्व करां प्रव कर
- *BeVeniy Bil beconstsiales actività N. Palm Dr.
- Miffmal Fedestran activity.
- •Feeder buses: Rapid 714 from N. Santa Monica BI to Beverly BI
 - Metre Baridp7d4fgamlan Seath Monica อิปร์ด คืองครับ อิปร Angeles to Santa
 Metre สิจผู้ปรัฐสามาติกาศย์สายท downtown Los Angeles to
 - Mathra Montarovia Benter Montal Blugh
 Metranta totom i Beverly Blattorough N.
 South Mobies elly and Canon Dr south to Beverly Dr

AM Peak On-Boards: 1,706PM Peak On-Boards: 2,025

Source: 2005 Google

0 330' 660'



STATION 7 BEVERLY BOULEVARD AND SANTA MONICA BOULEVARD



Northeast



South



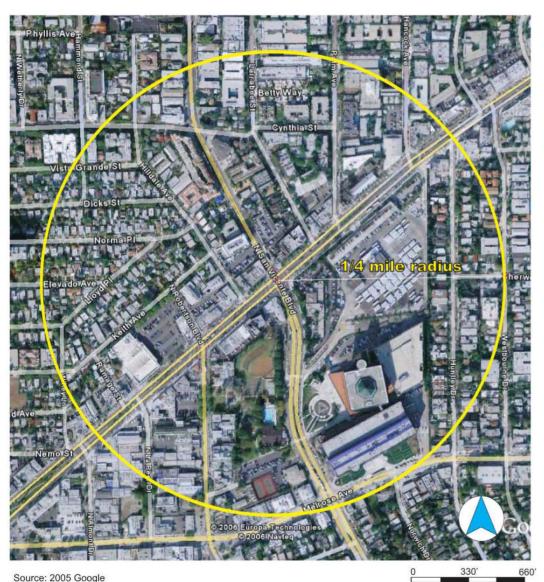
Southeast



View of residential area to the north



STATION 8 SAN VICENTE BOULEVARD AND SANTA MONICA BOULEVARD



- · 1hew-Density ollywood
- HYSTORTH WESTVEST HIGH RESIGNATION OF THE PROPERTY OF THE PR
- Pedestrian-oriented
- •Residential area separates ¼ mile • Bike Path radius and Beverly Hills limits.
- Residential area separates ¼ mile radius and Beverly Hills limits
 Pedestrian-oriented.
- · Feeder buses:
- Junten Perit Hills
- METRO Rapid 704 will replace 304
- Feeder buses
 METRO 305, 550 along San Vicente BI
 Metro 4, 304 along Santa

Monica Bl into Beverly Hills

- Metro Rapid 704 will replace 304
- •Metro 305, 550 along San Vicente Bl
- •AM Peak On-Boards: 4,350
- •PM Peak On Boards 500 € FTES



STATION 8 SAN VICENTE BOULEVARD AND SANTA MONICA BOULEVARD





Northeasterly view of Santa Monica BI

Pedestrian crossing



Pedestrian crossing between intersections



Pedestrian environment along Santa Monica Bl



View to the north

STATION 9 SANTA MONICA BOULEVARD AND LA CIENEGA BOULEVARD



- Low-Density.
- · In City of West Hollywood
- •In-Citymen West Hollywood.
- •Pedestrian-oriented.
- Residential area to northwest
- •Heavy through traffic.
- Feeder busses:
 - Metro 4,3604 along Santaa
 Mother Blantills Beverly Hills
 - Materio 7304 will weptace 304
 - Metro 1095 RAPID a 705 La along de la Cienega BI

•AM Peak On-Boards: 1,210

•PM Peak On-Boards: 1,494

Source: 2005 Google

0 330' 660



STATION 9 SANTA MONICA BOULEVARD AND LA CIENEGA BOULEVARD



Santa Monica BI W of La Cienega BI



View east on Santa Monica BI



View south of La Cienega BI



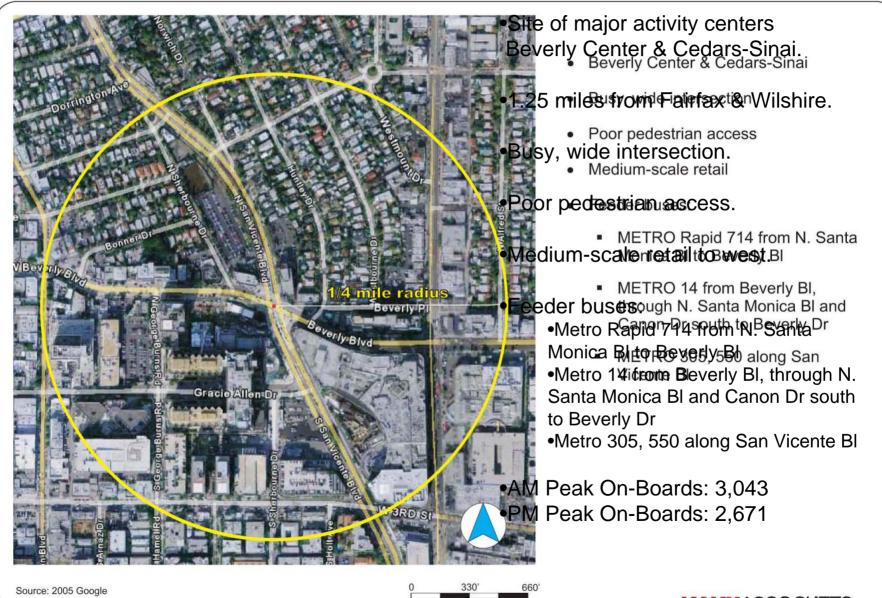
View west on Santa Monica BI



West pedestrian crossing



STATION 10 SAN VICENTE BOULEVARD AND BEVERLY BOULEVARD



STATION 10 SAN VICENTE BOULEVARD AND BEVERLY BOULEVARD







Beverly Center

Cedars-Sinai & Beverly Center

Southeast pedestrian crossing

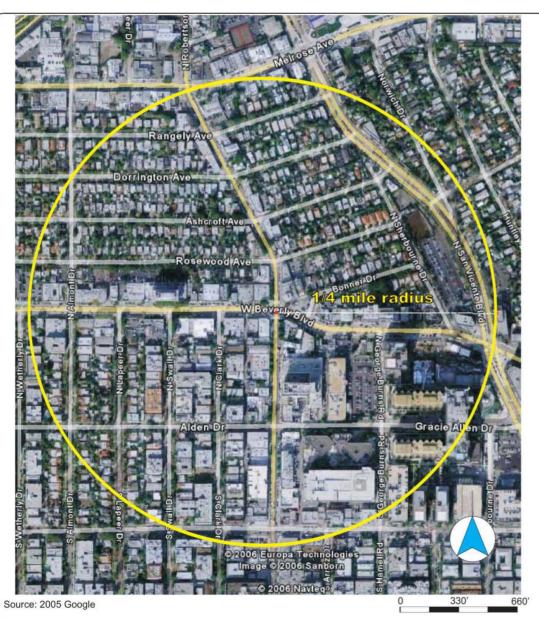


View south on San Vicente BI



Westerly view on Beverly BI

STATION 11 BEVERLY BOULEVARD AND ROBERTSON BOULEVARD



- •1/4 mile radius captures Cedars-Sinai.
- •Beverly Center is over ¼ mi to East.
 - · At City of Los Angeles & West
- •1.6 miles to Fairfax & Wilshire.
- Pleasant pedestrian environment
- •Not in Beverly Hills, at lines of Los Angered Extribed and BI
- Beverly Center & Cedars-Sinai over 1/4

 Pleasant pedestrian environment.
- ·Smansideatialorg Robettsen BI.
- Problems with parking in residential
 Lowardensity residential area to northwest.
 - Feeder buses:
- •Feeder թեկութ S: Rapid 714 from N. Santa •Metrica Rapid Be1/4 riyom N. Santa
 - Monica Bl to Beverly Bl
 - through IN Samta Moning BI and Canon Dr south to Beverly Dr
 - •METR 223 ald no Robertson Bu
- •AM Peak On-Boards A96OCIATES
- •PM Peak On-Boards: 1,006



STATION 11 BEVERLY BOULEVARD AND ROBERTSON BOULEVARD



Residential neighborhood near intersection



Retail between Wilshire & Beverly BI on Robertson BI



View north on Robertson BI



View south on Robertson BI



View west on Beverly BI



EXISTING TRAFFIC AND TRANSIT CONDITIONS

- The Wilshire route (Metro Lines 20, 21, 22, 720) combined is the heaviest-used bus line in Southern California.¹
- La Cienega Bl is the only designated north-south arterial through Beverly Hills and has very heavy traffic. This is projected to increase regardless of roadway improvements.

[1] Circulation Element of the Beverly Hills General Plan Update White Paper Series, Kaku Associates, Inc., February 2006.