California High-Speed Rail Authority

Palmdale to Burbank Project Section

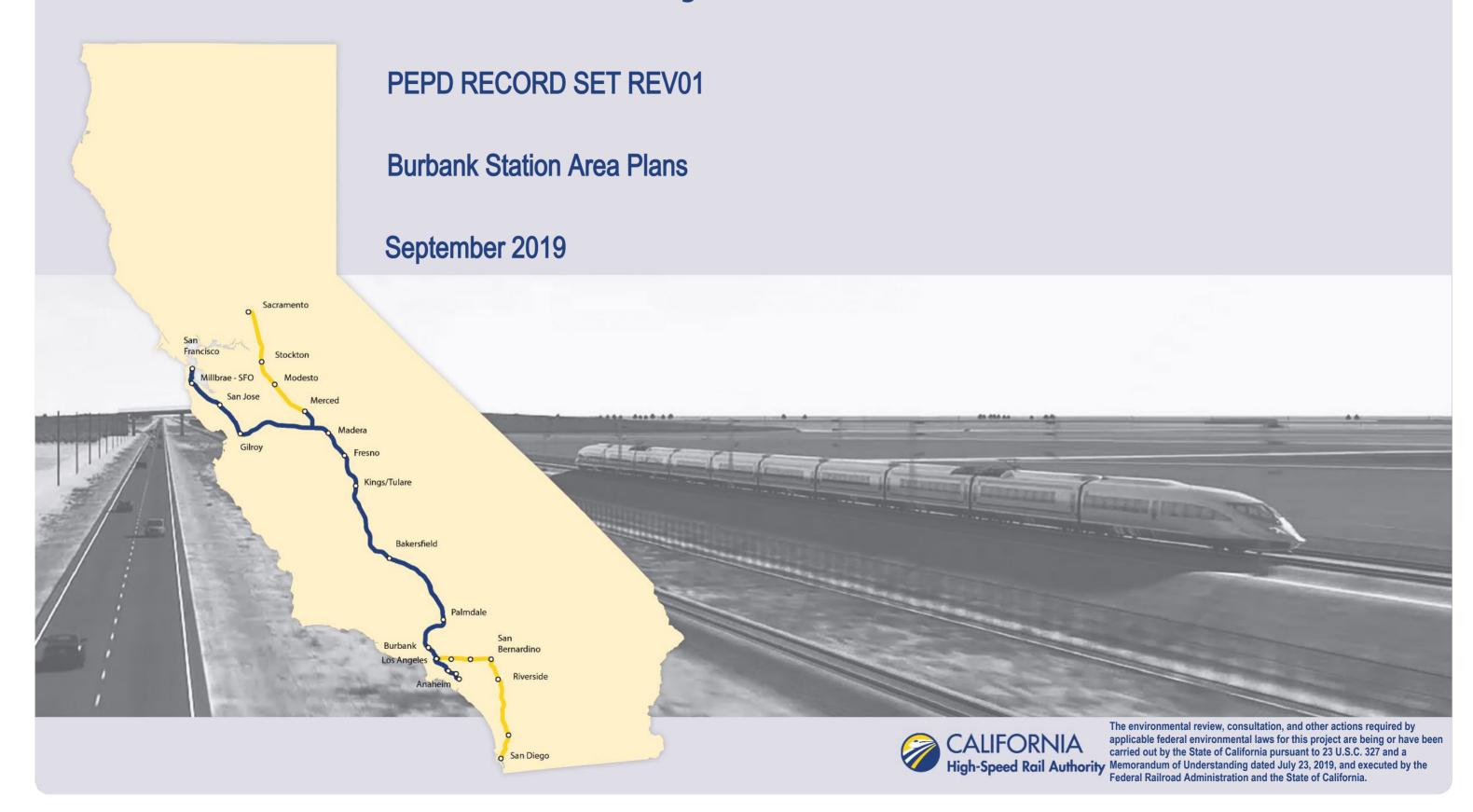
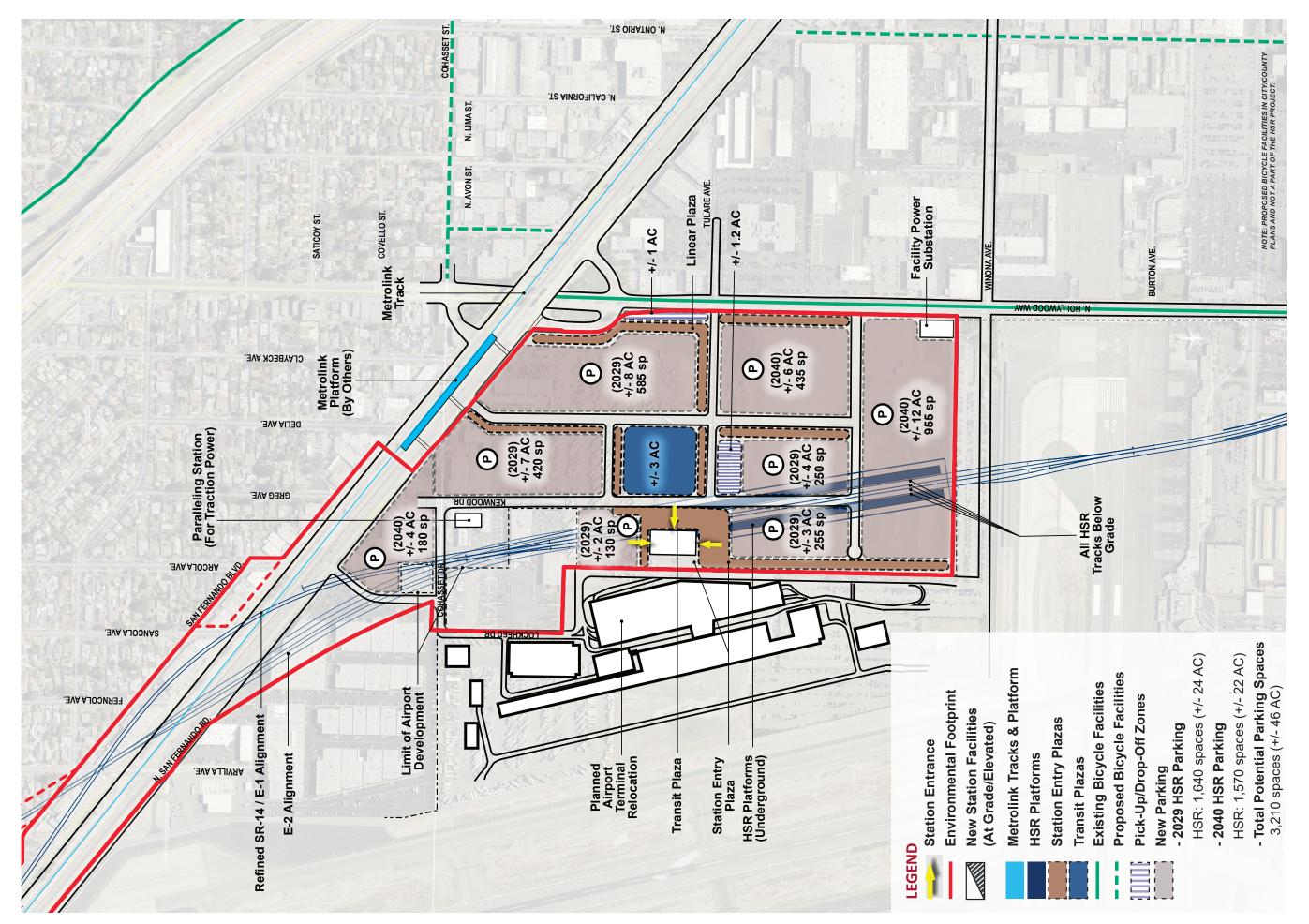
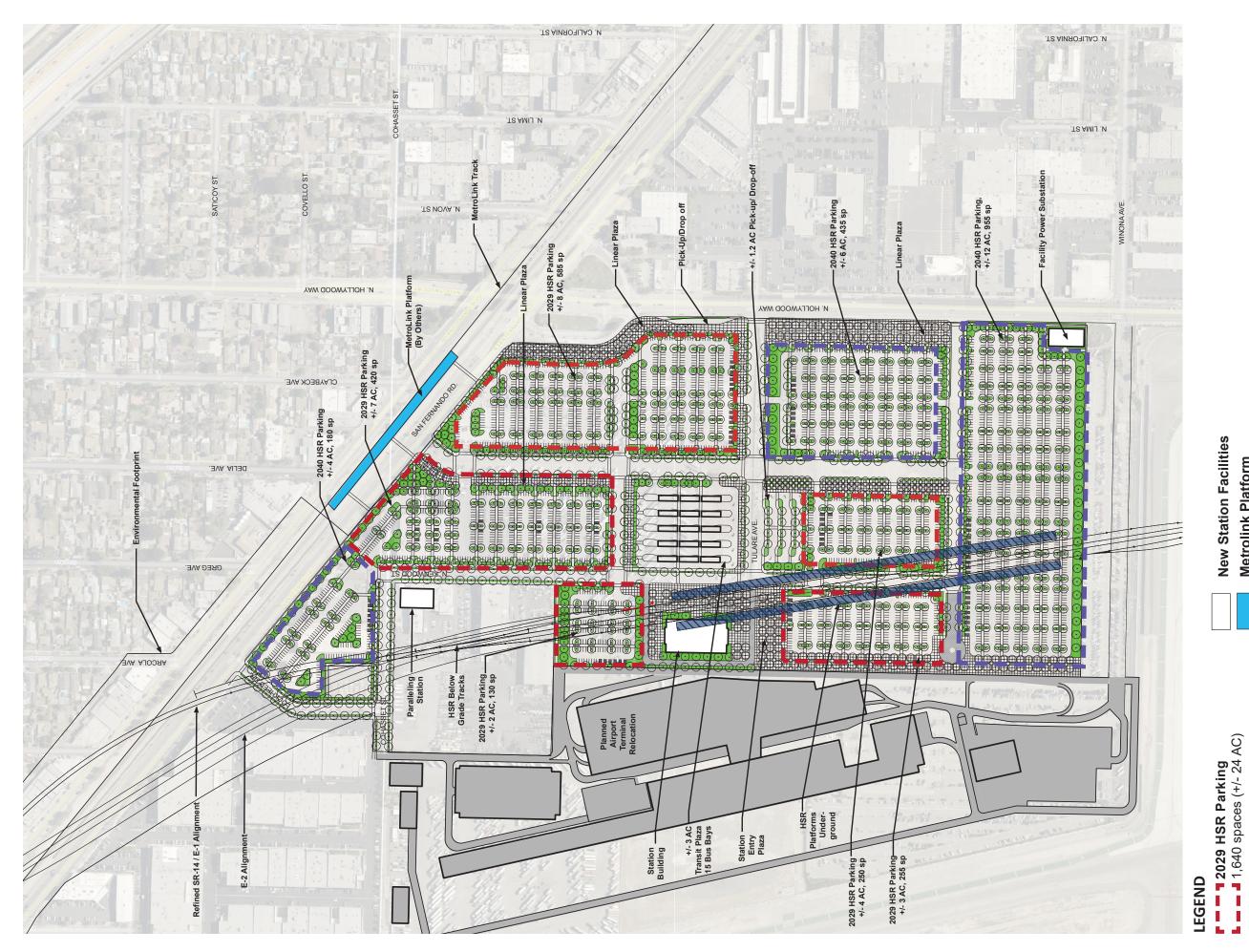


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Burbank Station General Site Plan



Burbank Station Detailed Site Plan

Planned Airport Terminal Relocation

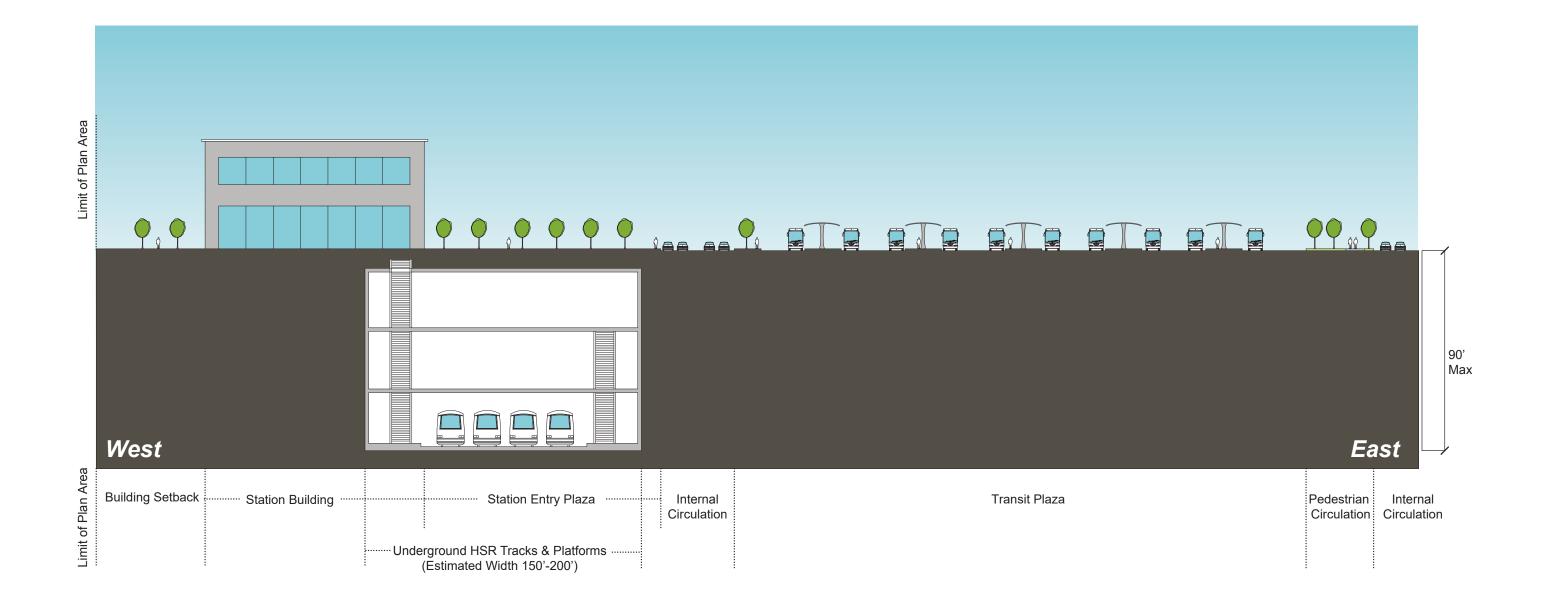
Landscaping

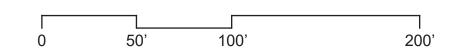
Total Potential Parking Spaces 3,210 spaces (+/- 46 AC)

12040 HSR Parking 11,570 spaces (+/- 22 AC)

HSR Platform (Underground)

Metrolink Platform

















Burbank Station Programmi	ing & Area Requirements Table			
Function Name	Description	Formula	Required Area (Net SF) Minimum	Comments
Burbank Daily Peak Ridership Boardings 2040	Long distance + Short Distance Boardings	12,800	12,800	CHSR 2016 Business Plan
P360B	Highest Daily Boardings X Conversation Factor for Boardings=6hour Boardings	Highest Daily Boardings x 0.67=P360B 12,800 x 0.67	8,576	
P360A	Peak 6 Hour Boardings X Conversation Factor for Alightings =6hour Alightings	P360B x 0.75=P360A 8576 x 0.75	6,432	
P60B	Peak 6 hour Boardings x Peak hour conversion Factor for Boardings=Peak Hour Boardings	P360B x 0.17=P60B 8576 X 0.17	1,458	
P60A	Peak Hour Boardings x Peak Hour Conversion Factor for Alightings=Peak Hour Alightings	P60B x 0.75=P60A 552 x 0.75	1,094	
P30B	Peak Hour Boardings /2 x Surge Factor = Peak 30-minute Boardings	(P60B /2) x 1.2=P30B (1458/2) x 1.2	875	
P30A	Peak 30-minute Boardings x Conversion Factor = Peak 30 minute Alightings	P30B x 0.075=P30A 875 x 0.75	656	
P15B	Peak Hour Boardings / 4 x Surge Factor = Peak 15- minute Boardings	(P60B / 4) x 1.3= P15B (1458 /4) x 1.3	474	
P15A	Peak 15-minute Boardings x Conversion Factor=Peak 15 minute Alightings	P15B x 0.75=P15A 474 x 0.75	356	California HSTP Design Criteria, Chapter 14-Stations, Oct 2015, Working Draft, Rev.2 Table 14-1 Passenger Ridership Assumptions
P5B	Peak Hour Boardings /12 x Surge Factor = Peak 5-minute Boardings	(P60B / 12) x 1.4= P5B (1458/12) x 1.4	170	Table 14-3 Concourse Circulation and Waiting Areas
P5A	Peak 5-minute Boardings x Conversion Factor = Peak 5-minute Alightings	P5B x 0.75=P5A 170 x 0.75	128	
P1B	Peak Hour Boardings /60 x Surge Factor=Peak 1 Minute Boardings	(P60B /60) x 1.5=P1B (1458 /60) x 1.5	36	
P1A	Peak 1-minute Boardings x Conversion Factor for Alightings=Peak 1 Minute Alightings	P1Bx0.75 36x0.75	27	
Cf	Unobstructed Net Concourse Free Public Area Circulation Width	(P15B+P15A)/(15x10 people/ft/min) or 16 ft min. (474+356)/(15x10 people/ft/min)	476	
Wf	Net Waiting Area in Concourse Free Public Area	((P15Bx1.1) + (P15Ax0.1))x 14 square feet ((474x1.1) +(356x0.1)) x 14	7,798	
Public Restrooms	Women + Men + Unisex accessible restroom for each group	(P15B+P15A) / 2 (474+356) /2	415	14.3.4 Public Restrooms
Passenger Amenity Space Allocation	Station Design Target Year Daily Boardings	More than 10,000	9,000	Table 14-7, Chapter 14 March 2016, corrected as directed Comment 45_3-09-2017
Ticket Windows	Station Quantity	P60B/600 638:600	2	Table 14-5: HST Ticket Sales Facilities
Ticket Vending Machines		P60B/280 638/280	3	
Value Added Machines	2 Per Platform Minimum			1
Fare Gates Intermediate		P1B /50 ppm 36/50 One additional gate to be provided if under 10	2	Table 14-6 Fare Gates
Emergency Gates			2	14.3.3.6
Side Platform Station	Peak- hour boarding and fully occupied train alighting	P60B + 900 p	2358	14.3.6.2
Sr	Seating at Concourse Free Waiting Area	((P15B x 1.1) + (P15A x 0.1)) x .25	139	Table 14-22: Station Seating

Burbank Station Facility Sizing Table Burbank Projected Daily Ridership (2040) 25,600 (12,800 Boardings + 12,800 Alightings), based on CHSR Authority 2016 Business Plan STATION TYPE: Intermediate, Full-Service, Large: based on Chapter 14 Stations Design Criteria, Table 14-3 Formula Chapter 14:Stations Comments **Function Name** Required Area (Net SF) Minimum Station Concourse (Free Area - Main Hall) 29,050 P15 x 35 SF/person 14.3.5.1 P15 = P15 B + P15 A = 474 + 356 = 830 ,use 35 SF/person 107 Ln.Ft. 14.3.5.2 Entrances (P60B x 1.1)/15 Ln.Ft. P60B=552, 15 ft width at least one entrance Mezzanine N/A tracks and platform underground Passenger Waiting Area 7,798 ((P15B x 1.1)+(P15Ax0.1)) 14.3.5.3.B.C California HSTP Design Criteria, Chapter 14-Stations, March 2016, Rev 2 and October 2015, Working draft, Rev 2. Table 14-1 Passenger x 14 SF Table 14-3 Ridership Assumptions, Table 14-3 Ticket Vending Machines (TVM) 72 P60B/280 Table 14-5, 14.3.5.6 P60B = 1458, 6 TVM, Minimum 2 required Public I 9,000 Concessionaire Table 14-7 More than 10,000 Boardings 14.3.5.7.C **Business Lounge** 600 14.3.5.4 **Public Restrooms** 1,100 CBC 2016, CPC 2016 P15 = 830 A-3 Assembly Occupancy, 415 Male, 415 Female: 8 Water Closets, 5 Lavatories (P15B + P15A)/2Male: 3 Water closets, 4 Urinal, 3 Lavatories Drinking Fountains: 3 100 14.3.5.4 1 Unisex (or family) accessible restroom for each group of restrooms **Unisex Restrooms** 60 14.3.7.1.D **Janitor Closets** 14.3.5.7A Minimum 1 required **Ticket Office Counter** 14.3.5.6.B **Ticket Office Window Quality** P60B/600 P60B = 552, Minimum 1 + 1 ADA accessible 14.3.5.7A 14.3.6.2.A 500 Police Office **Includes Lockers** 60 14.3.7.1.D Janitor Closets 144 14.3.6.2.B Security Guard Office 14.3.2.1 **HSR Platform** 14.3.2.1 Metrolink Platform Station Entry Plazas (Total Area) 14.4.4.8 Transit Plazas (Total Area) 14.4.2.4 Transit Plazas (Sizing Assumptions) 14.4.2.4 Pick-up Drop Off (Total Area) 14.4.2.5 Pick-up Drop Off (Sizing Assumptions) 14.4.2.5 2029 Parking Totals Sidewalks and landscaping are also included in parking area.

Sidewalks and landscaping are also included in parking area.

2040 Parking Totals

Burbank Station Facility Sizing Table Burbank Projected Daily Ridership (2040) 25,600 (12,800 Boardings + 12,800 Alightings), based on CHSR Authority 2016 Business Plan STATION TYPE: Intermediate, Full-Service, Large: based on Chapter 14 Stations Design Criteria, Table 14-3 Required Area Chapter 14:Stations Comments **Function Name** Formula (SF) Minimum 225 14.3.5.7.A **Ticket Sales Office** 75 SF per window, 3 ticket sales windows 260 Ticket Admin., Handling & Storage 14.3.5.6.B Ticket Administration Office 14.3.5.7 14.3.6.2.C-D 200 14.3.6.1E-F Lost & Found & First Aid Room 1,100 14.3.6.2.E Station Control Room (SCR) **SCR Dedicated Computer Room** 500 14.3.6.2.F 300 Temporary Incident Command Post (CP) 14.3.6.2.G Station Staff Only 1,100 SOR Workroom 14.3.6.2.H **SOR Dedicated Computer Room** 500 14.3.6.2.F-H 780 Staff Lockers, Showers, Restrooms 14.3.6.1.1 2016_ Business Plan Operations and Maintenance Cost Model, Table 20- Station Service Level C, Table 21, Table 24, Table 28. Assumed CBC 2016, CPC 2016 administration staff, police, security and cleaning personnel 27. B Business Occupancy, 14 Male, 14 Female. Female: 2 Watercloset, 1 Lavatory Male: 1 Watercloset, 1 Urinal, 1 Lavatory 2 Staff Shower Rooms adjacent to Locker rooms and Restrooms 60 14.3.7.1.C Janitor Closets 675 27/shift x 25SF 14.3.6.1G-H Staff Breakroom & Meeting Rooms 200 SF min or as reg to provide 25 SF /staff Station Manager Office 270 14.3.6.1A 270 SF 270 14.3.6.1C Facility Manager's Office Admin Office Space 270 14.3.6.1.B Facilities Maintenance Office 330 14.3.6.1.C 200 14.3.7.1.E Add 60 SF for misc. if required. Station General Storage Rooms 200 100 SF x (2) 14.3.6.2.1 OMB shall be provided on each platform, 2 platforms Platform Area Op. Mgt. Booth Mech., Elec. & Plumbing Rooms 1,000 14.3.7.2 **Battery Room** 400 200 SF x (2) 14.3.7.4.B Two rooms req, including one room at each end of station for LV batteries. **UPS Room** 1,800 900 SF x (2) 14.3.7.2.C Two rooms req., one at each end of station for low voltage (LV) distribution, transforming, EP and Fire Detection & Protection Rooms 100 14.3.7.2.C **Building Services** 14.3.7.2.E Train Control /Communications Room 1,915 Table 14-8 For the train control and communications equipment 240 14.3.7.2.E Entrance Facility Room Table 14-8 For entry of service cabling into the building. May be co-located with the TCC room. 120 14.3.7.2.E 3rd Party Telecom Room Table 14-8 390 130 SFx (3) 14.3.7.2.E Communications Closets Table 14-8 Number TBD. Locate close to center of each 10,000 SF of Station Floor Area

Renewable Energy/Stormwater

Burbank S	Burbank Station Facility Sizing Table								
Burbank Projected Daily Ridership (2040) 25,600 (12,800 Boardings + 12,800 Alightings), based on CHSR Authority 2016 Business Plan									
	STATION TYPE: Intermediate, Full-Service, Large: based on Chapter 14 Stations Design Criteria, Table 14-3								
	Function Name	Required Area (SF) Minimum	Formula	Chapter 14:Stations	Comments				
Maint. Support Areas	Main Station Building Recycling/Refuse	150		14.3.7.1.A					
	Secondary Station Building Recycling	60		14.3.7.1.C					
	Landscape Maintenance Room	100		14.3.7.1.F					
laint	Loading Zone and Service Entrance	800		14.3.7.1.G					
≥	Loading Dock	480	24 Ft wide x 20 Ft deep	14.3.7.1.H					
SUBTOTAL		70,977 SF							
Efficiency Factor		2							
TOTAL AREA- MAIN STATION BUILDING		141,954 SF							
TOTAL AREA-Substation:		10,000 SF							
	TOTAL:	151,954 SF							