



Downtown Transportation Plan Update

**TRANSPORTATION COMMISSION
JANUARY 10, 2013**

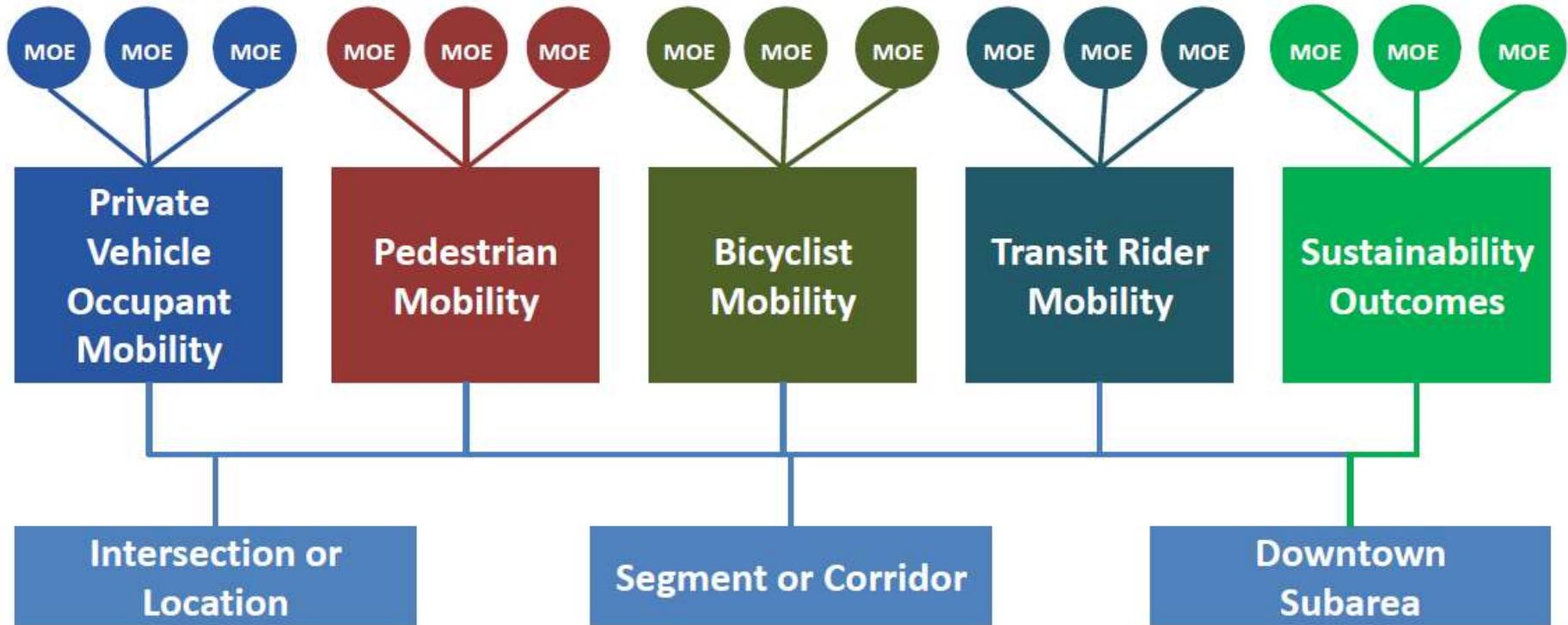
**TRANSIT SERVING DOWNTOWN
RESIDENTS, WORKERS, VISITORS**

Presentation and Discussion, January 10, 2013

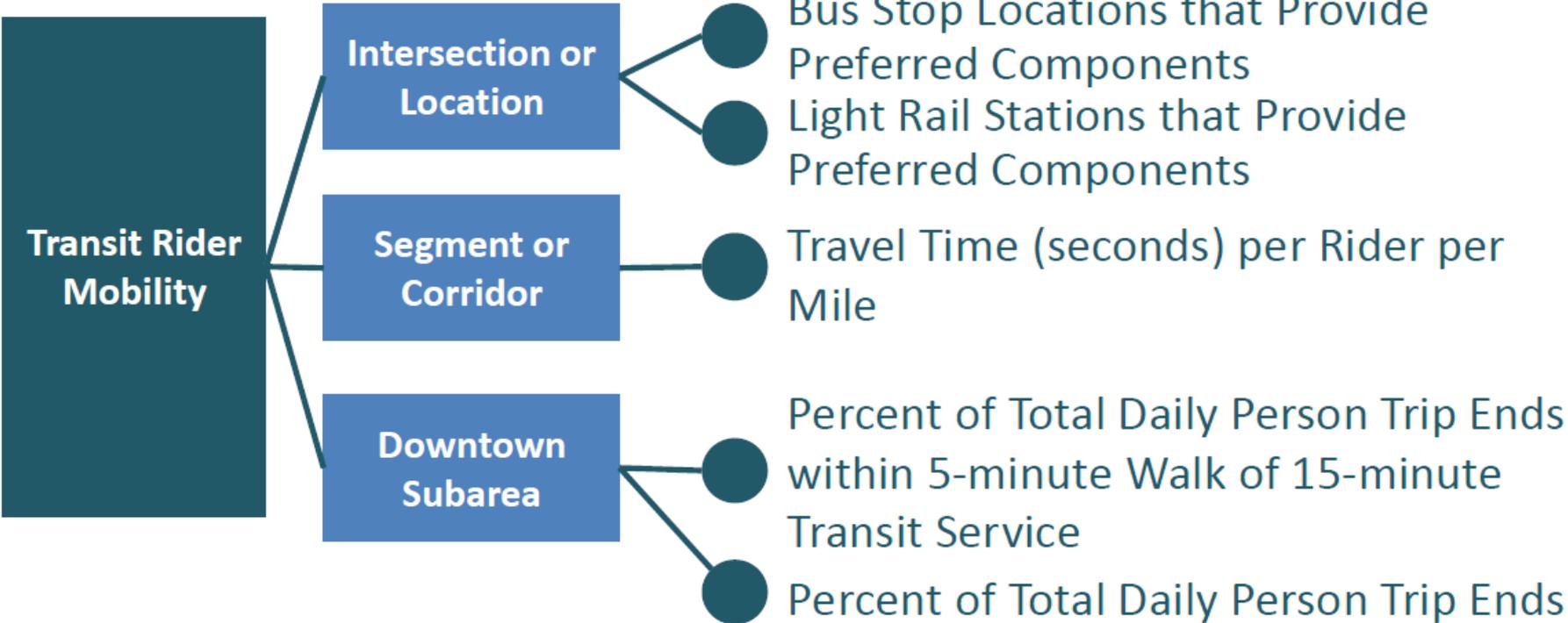
TRANSIT SERVING DOWNTOWN RESIDENTS, WORKERS, VISITORS

- Transit Rider Measures of Effectiveness
- Downtown Land Use
- Downtown Transit - Scope
- Downtown Transit – Coverage
- Next Steps

Measures of Effectiveness



Transit Rider Mobility – Approved MOEs



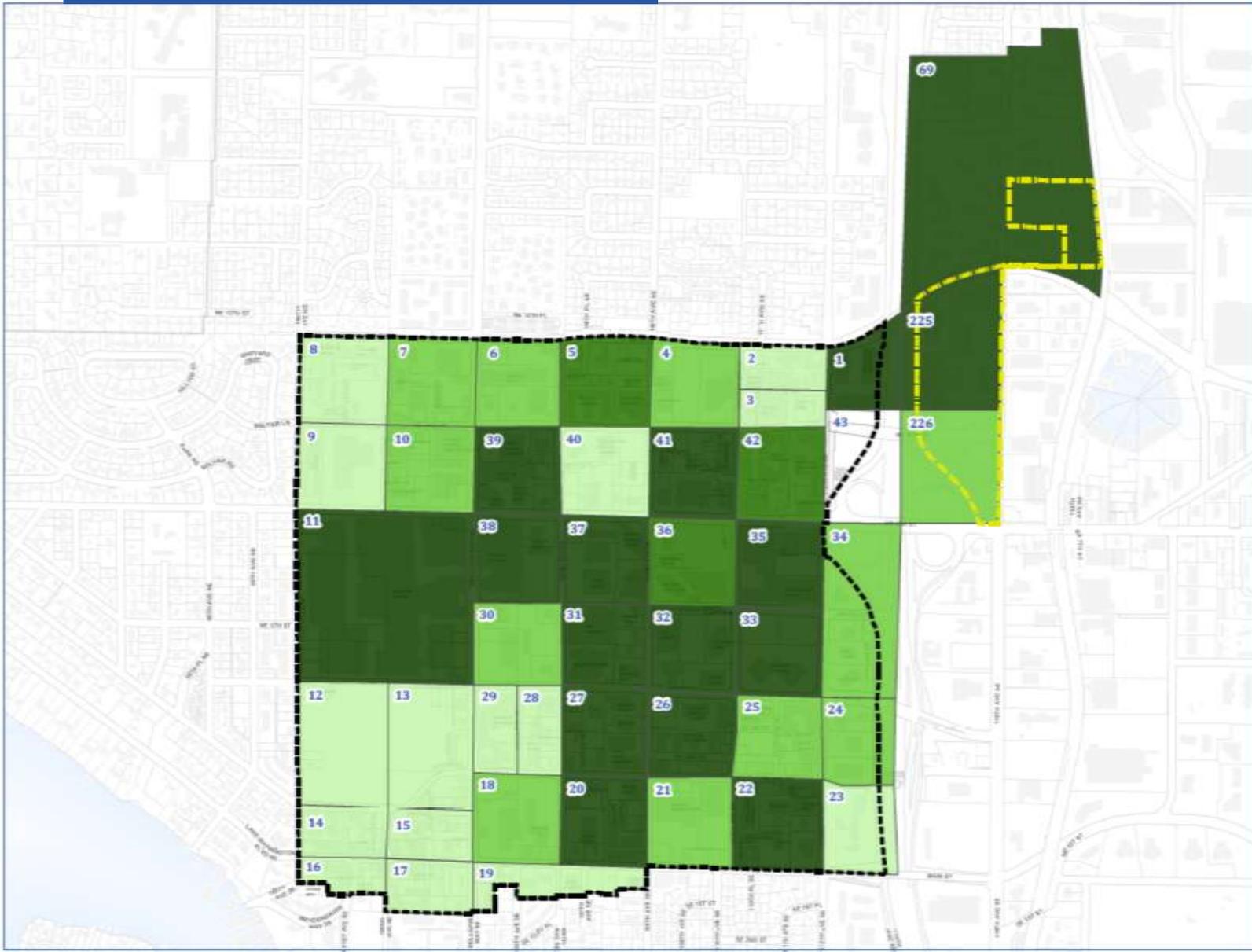
Downtown Land Use Forecast

	1990	2000	2010	2030	2010/2030 Growth
Employment	22,257	34,042	42,525	70,300	+27,775
Population	1,182	2,588	7,147	19,000	+11,853



Downtown 2010: Employment

Including Medical Institution District



Employment Totals by TAZ: Year 2010

Downtown Transportation Plan Update

Legend

Transportation Analysis Zone Number (TAZ)

Employment Totals

- No Jobs
- 1 to 250
- 251 to 500
- 501 to 1,000
- Over 1,000

Area Boundaries

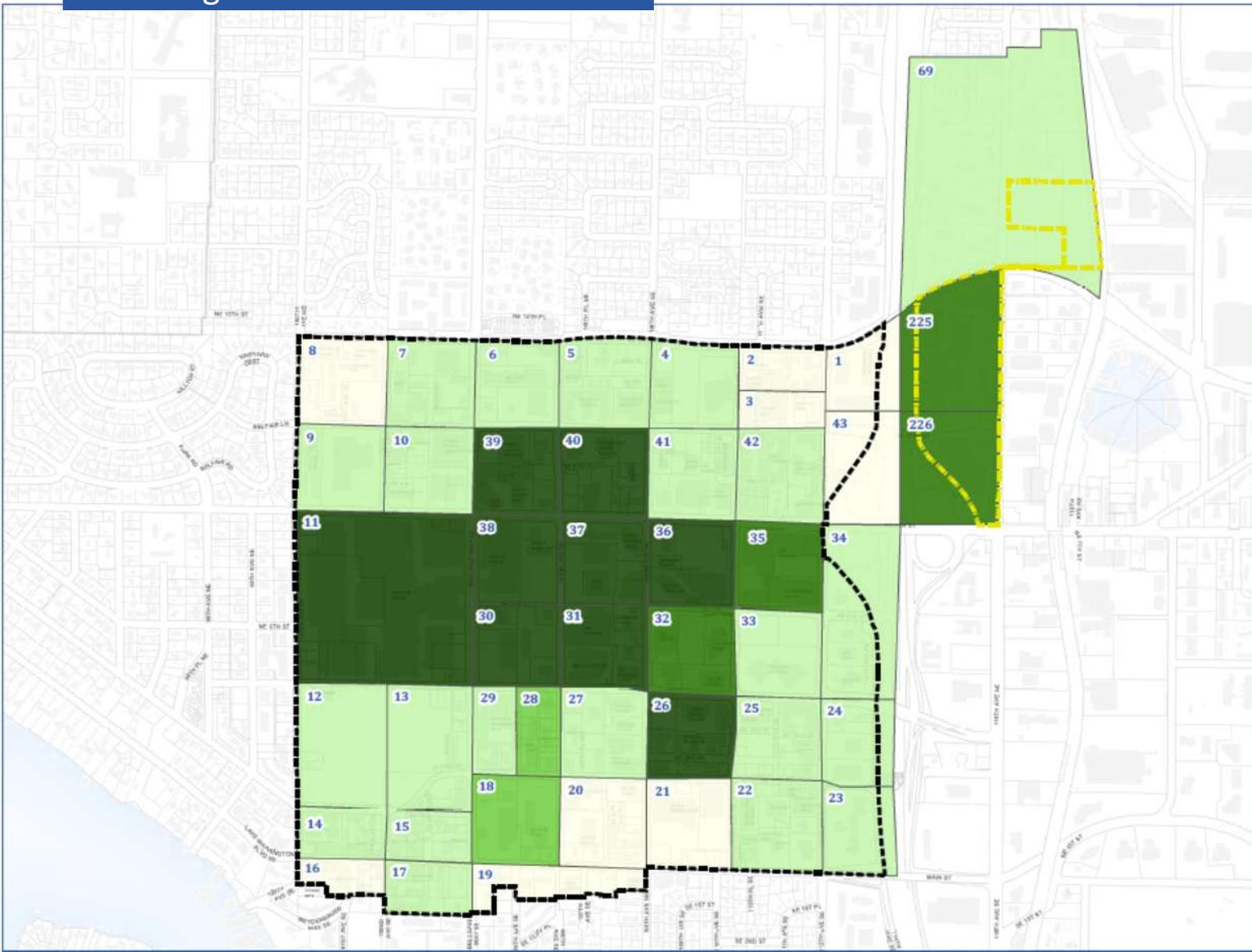
- Downtown Bellevue
- Medical Institution District



Source:
City of Bellevue
Building Department
Spring 2009

Downtown Employment Change

Including Medical Institution District



Employment Change by TAZ: 2010 to 2030
Downtown Transportation Plan Update

Legend

Change is calculated using 2010 and 2030 figures.

Transportation Analysis Zone Number (TAZ)

Employment Change

- 1 to -250
- No Change
- 1 to 250
- 251 to 500
- 501 to 1,000
- Over 1,000

Area Boundaries

- Downtown Bellevue
- Medical Institution District

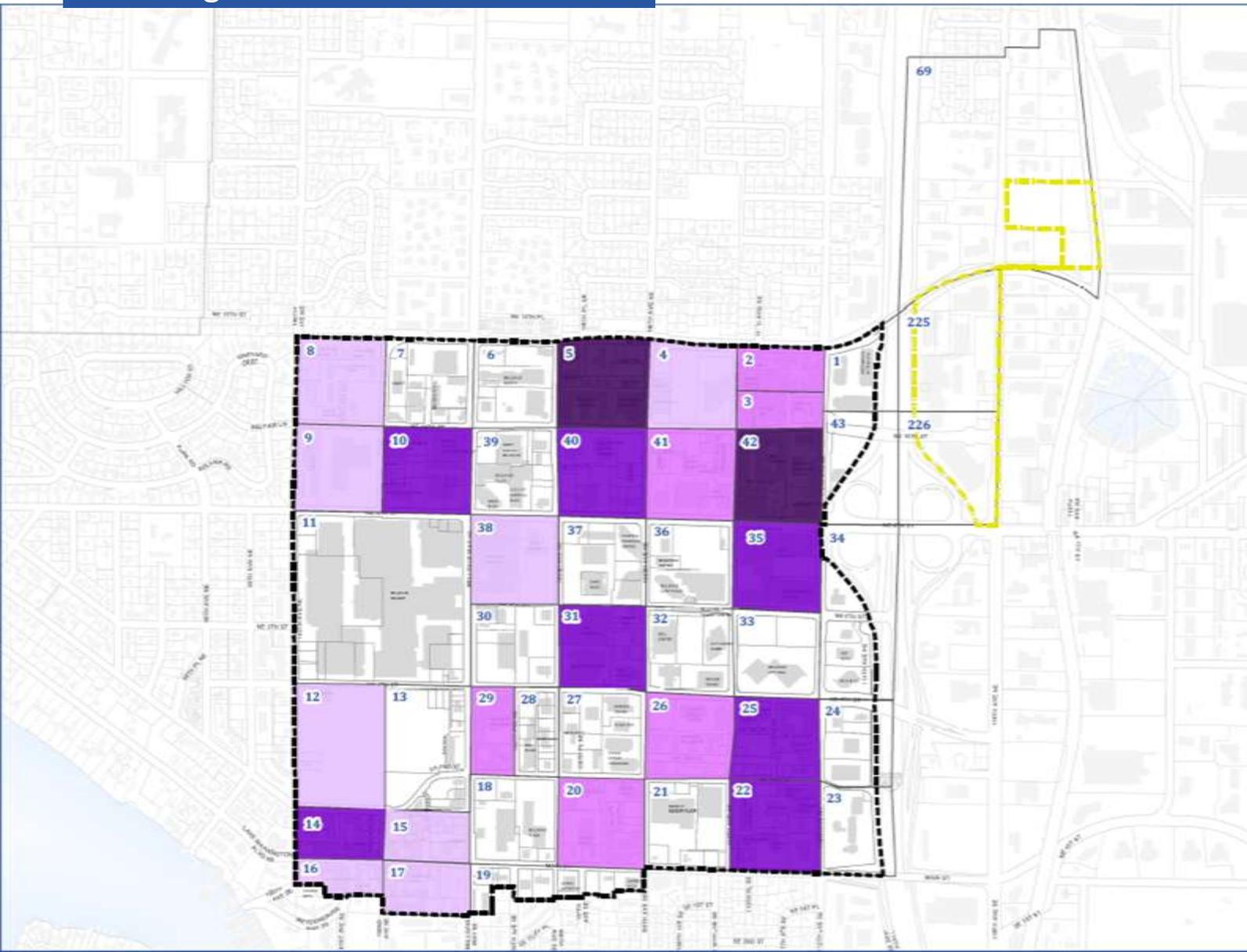


80,000
Feet

Source:
City of Bellevue
Building Footprints
Spring 2009

Downtown 2010: Population

Including Medical Institution District



Population Totals by TAZ: Year 2010
 Downtown Transportation Plan Update

Legend

- # Transportation Analysis Zone Number (TAZ)

Population Totals

- No Residents
- 1 to 250
- 251 to 500
- 501 to 1,000
- Over 1,000

Area Boundaries

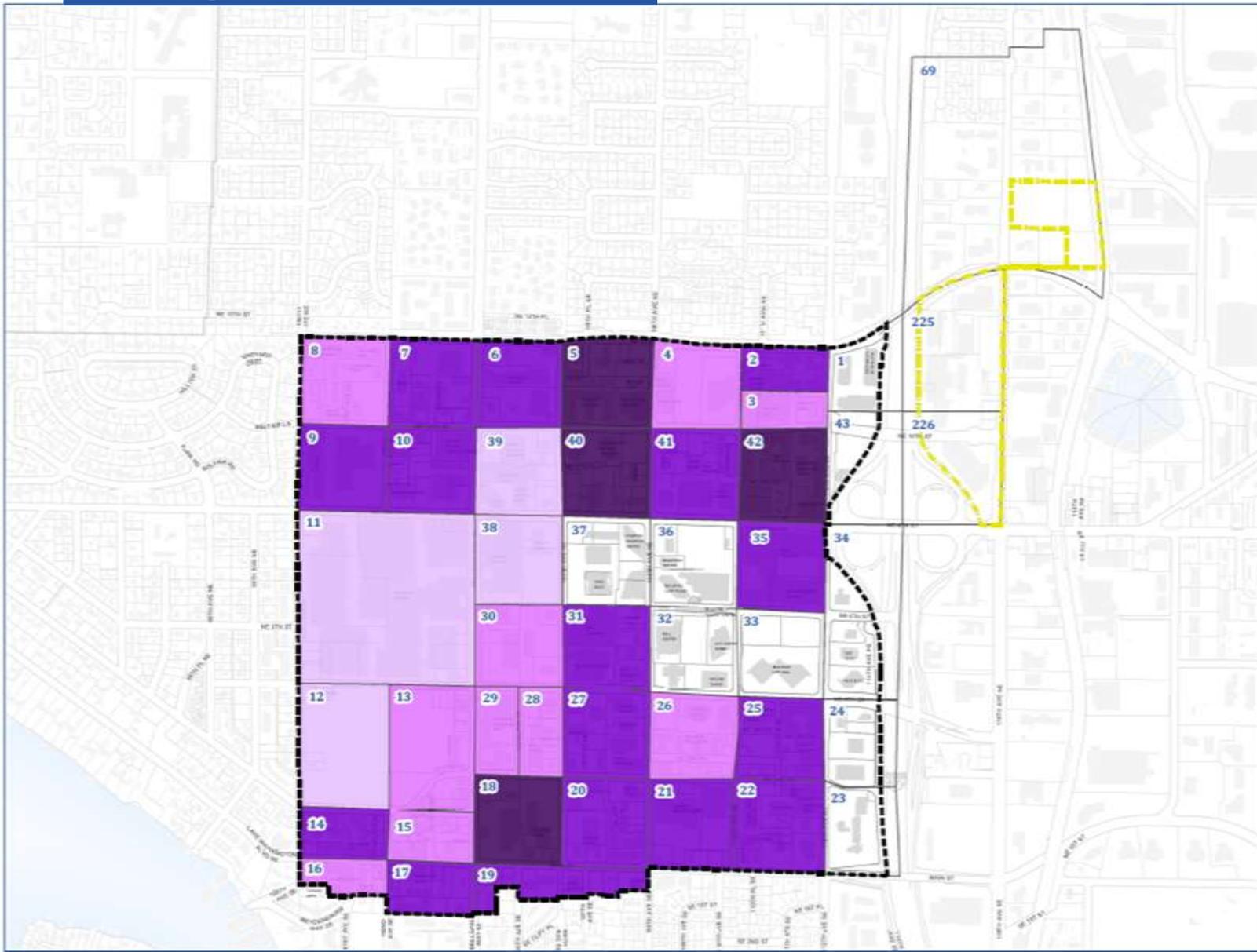
- Downtown Bellevue
- Medical Institution District



Source: City of Bellevue Building Department, Spring 2008

Downtown 2030: Population

Including Medical Institution District



Population Totals by TAZ: Year 2030

Downtown Transportation Plan Update

Legend

Transportation Analysis Zone Number (TAZ)

Population Totals

- No Residents
- 1 to 250
- 251 to 500
- 501 to 1,000
- Over 1,000

Area Boundaries

- Downtown Bellevue
- Medical Institution District

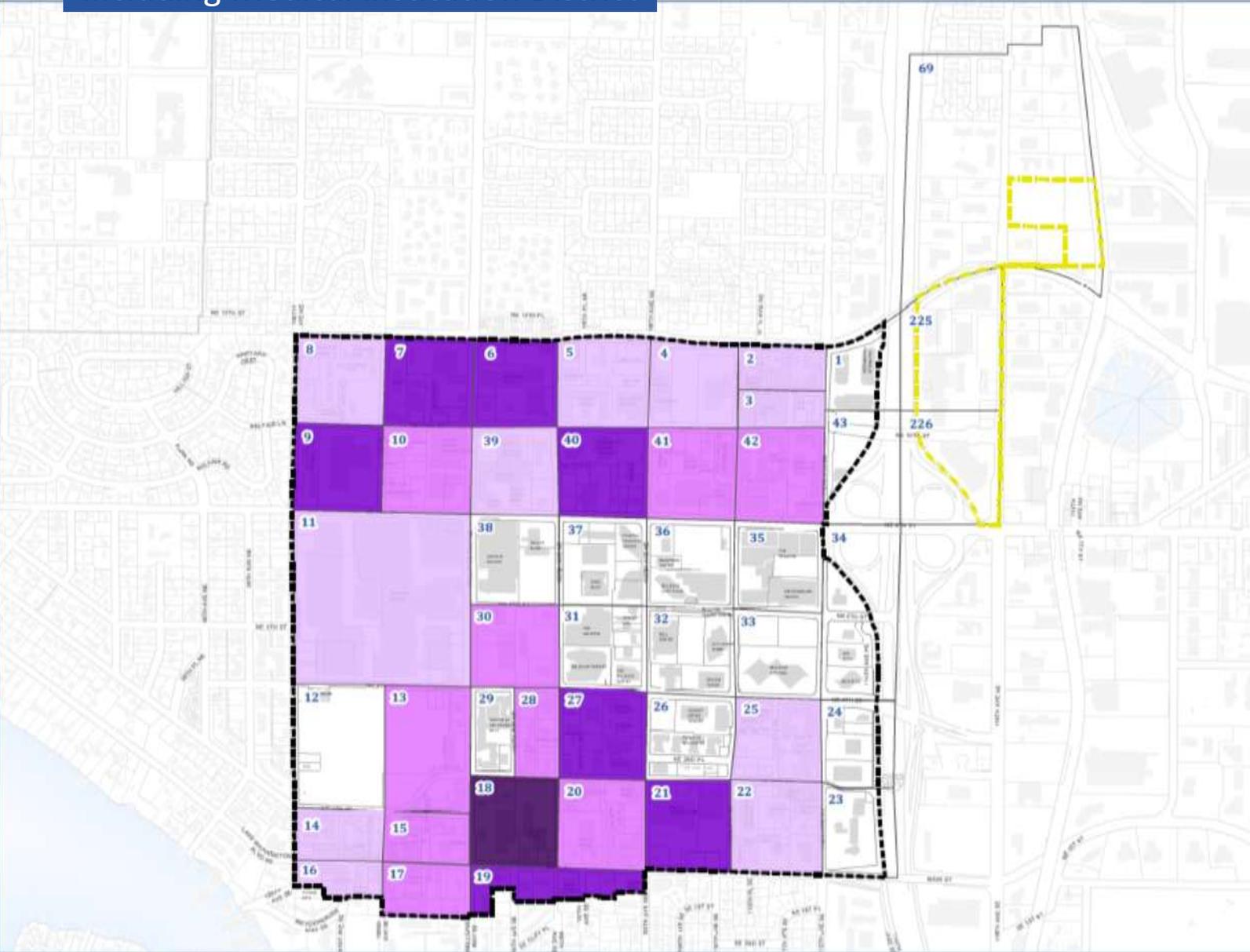


80,000 Feet

Source: City of Bellevue Building Footprints, Spring 2023

Downtown Population Change

Including Medical Institution District



Population Change by TAZ: 2010 to 2030
Downtown Transportation Plan Update

Legend
Change is calculated using 2010 and 2030 figures.

Transportation Analysis Zone Number (TAZ)

Population Change

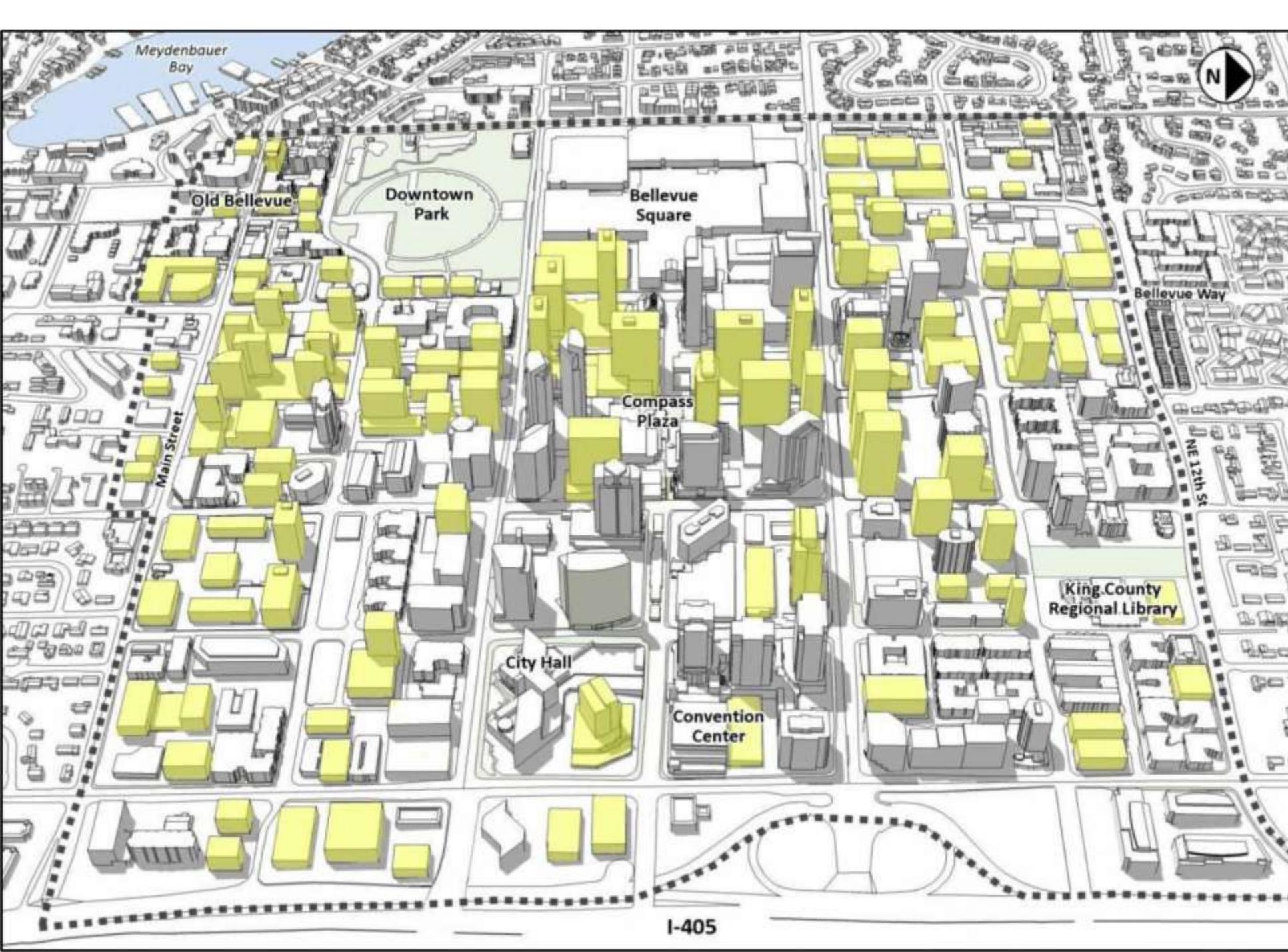
- No Change
- 1 to 250
- 251 to 500
- 501 to 1,000
- Over 1,000

Area Boundaries

- Downtown Bellevue
- Medical Institution District

80,000 Feet

Source: City of Bellevue Building Footprints Spring 2008



Meydenbauer Bay



Old Bellevue

Downtown Park

Bellevue Square

Bellevue Way

Main Street

Compass Plaza

NE 12th St

City Hall

King County Regional Library

Convention Center

I-405

Downtown Transit Mobility – Scope of Work

Coverage



Speed and Reliability



Capacity

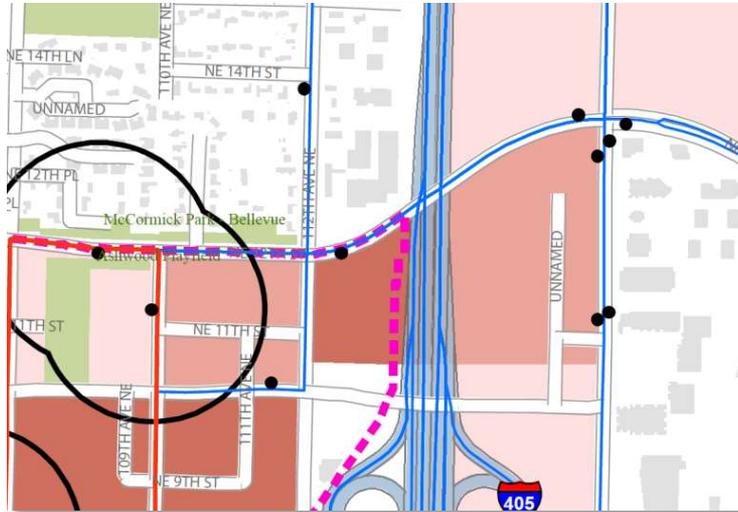


Comfort/Access/Information



Downtown Transit Mobility – Coverage

Coverage



Community Concerns

- All Day Frequent Transit service - routing and stop locations – needed to provide transit mobility to Downtown neighborhoods and employment centers
 - MOE: Residential and employment trips served within a 5-minute walk of 15-minute transit service
- All Day Frequent Transit service needed to the Medical Institution District east of I-405

DOWNTOWN BELLEVUE TRANSIT TRANSIT COVERAGE

Transportation Commission Comments 12/14/12

- Convenient bus stop spacing
- Accommodate smooth and convenient transfers
- Transfer opportunities other places than Transit Center
- Include hotels in coverage
- Cover residential density on the outside edges of Downtown
- How to accommodate all the needed buses on streets (*capacity*)
- Consider region-wide coverage (*TMP*)
- Coverage should mirror land use
- Consider span of service
- Hospital employees 24/7 + weekends
- OTHERS?

Coverage



Defining and Documenting Transit Coverage

- **Walkshed Metrics**

- Crow-flies radius (600-feet) from frequent transit service stop
- Frequent Transit Service operates at 15 minute, or better, frequency all day on weekdays for at least 14 hours and the total span of service is 20 hours minimum.

- **Residents Served**

- Residents in TAZs within the radius

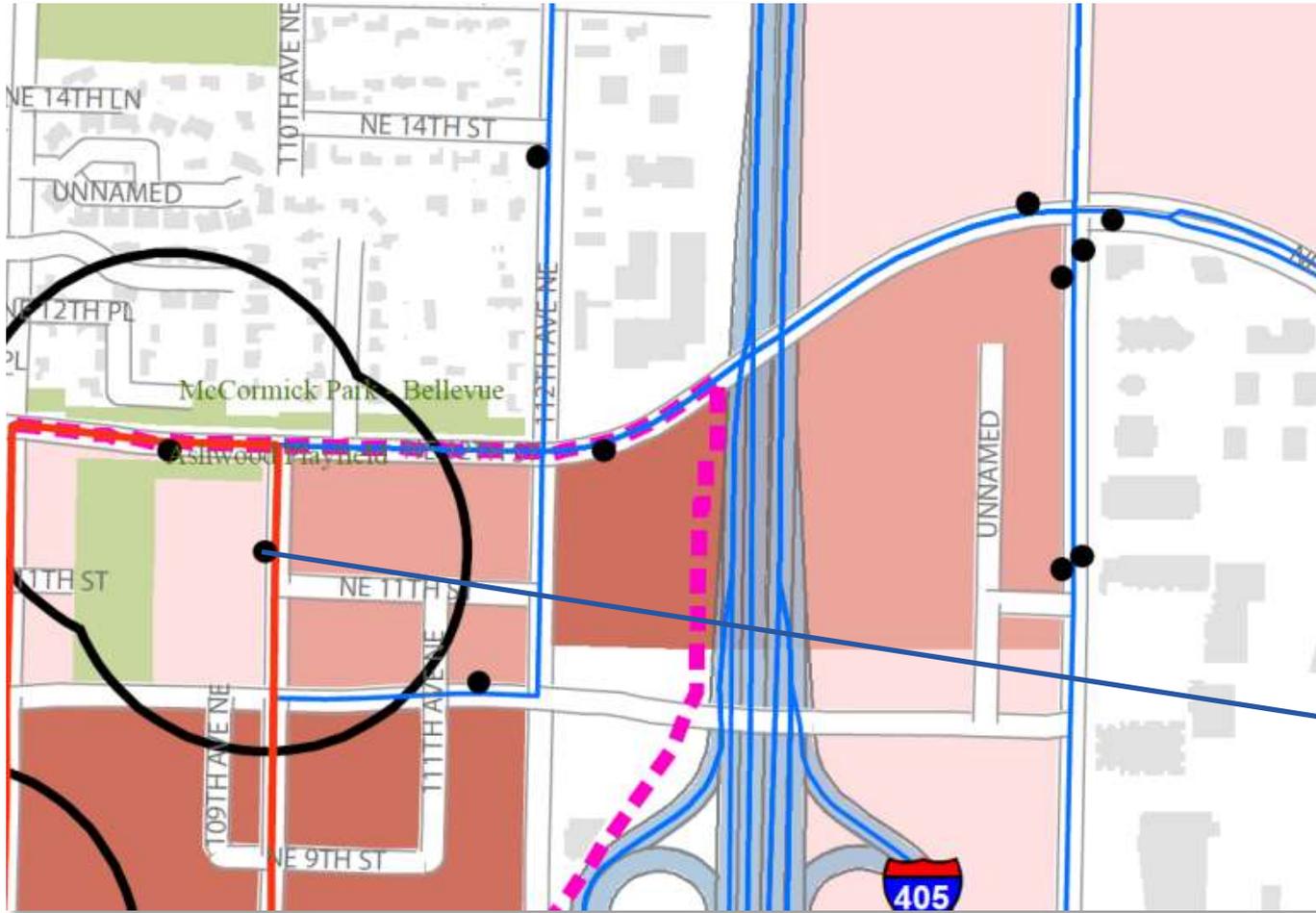
- **Employment Served**

- Employees in TAZs within the radius

- **Civic/Cultural/Services Attractions Served**

- Community interest – not a MOE

Crow-Fly Method



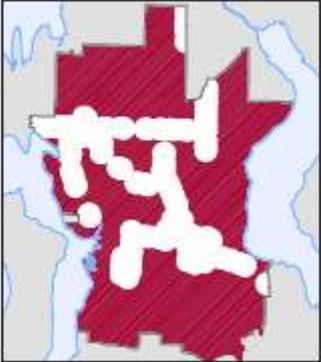
Fixed distance
around a
defined point

Walkshed Analysis - Transit Master Plan

Bellevue Citywide Crow-Fly Method

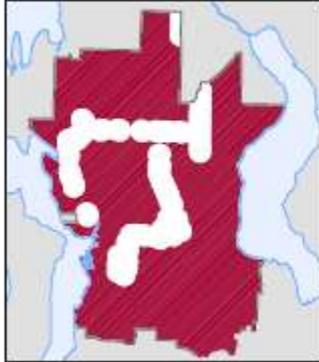
Areas in Bellevue lacking 15 min or Less Bus Service on Weekdays (Fall 2011)

AM Peak (05:00 – 09:00)



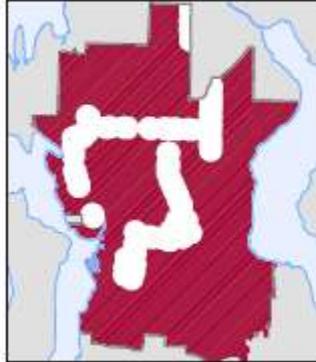
Residents Served: 37%

Base (09:00 – 15:00)



Residents Served: 29%

PM Peak (15:00 – 18:00)



Residents Served: 30%

Evening (18:00 – 22:00)



Residents Served: 13%

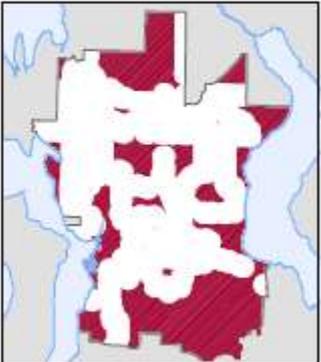
Night (22:00 – 01:00)



Residents Served: 0%

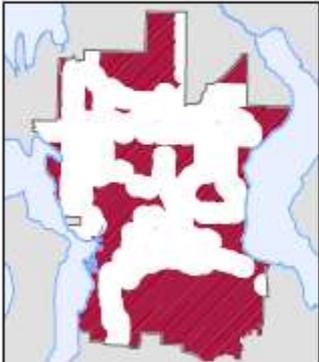
Areas in Bellevue lacking 30 min or Less Bus Service on Weekdays (Fall 2011)

AM Peak (05:00 – 09:00)



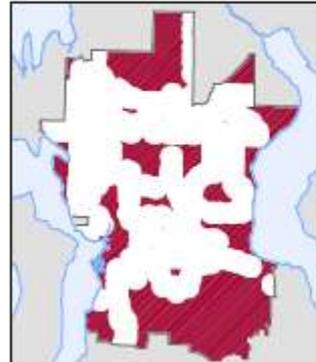
Residents Served: 72%

Base (09:00 – 15:00)



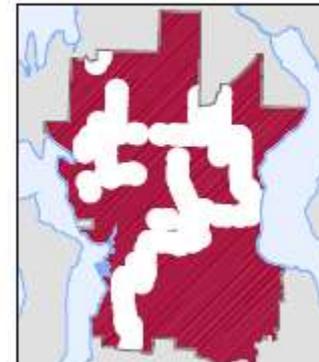
Residents Served: 67%

PM Peak (15:00 – 18:00)



Residents Served: 72%

Evening (18:00 – 22:00)



Residents Served: 40%

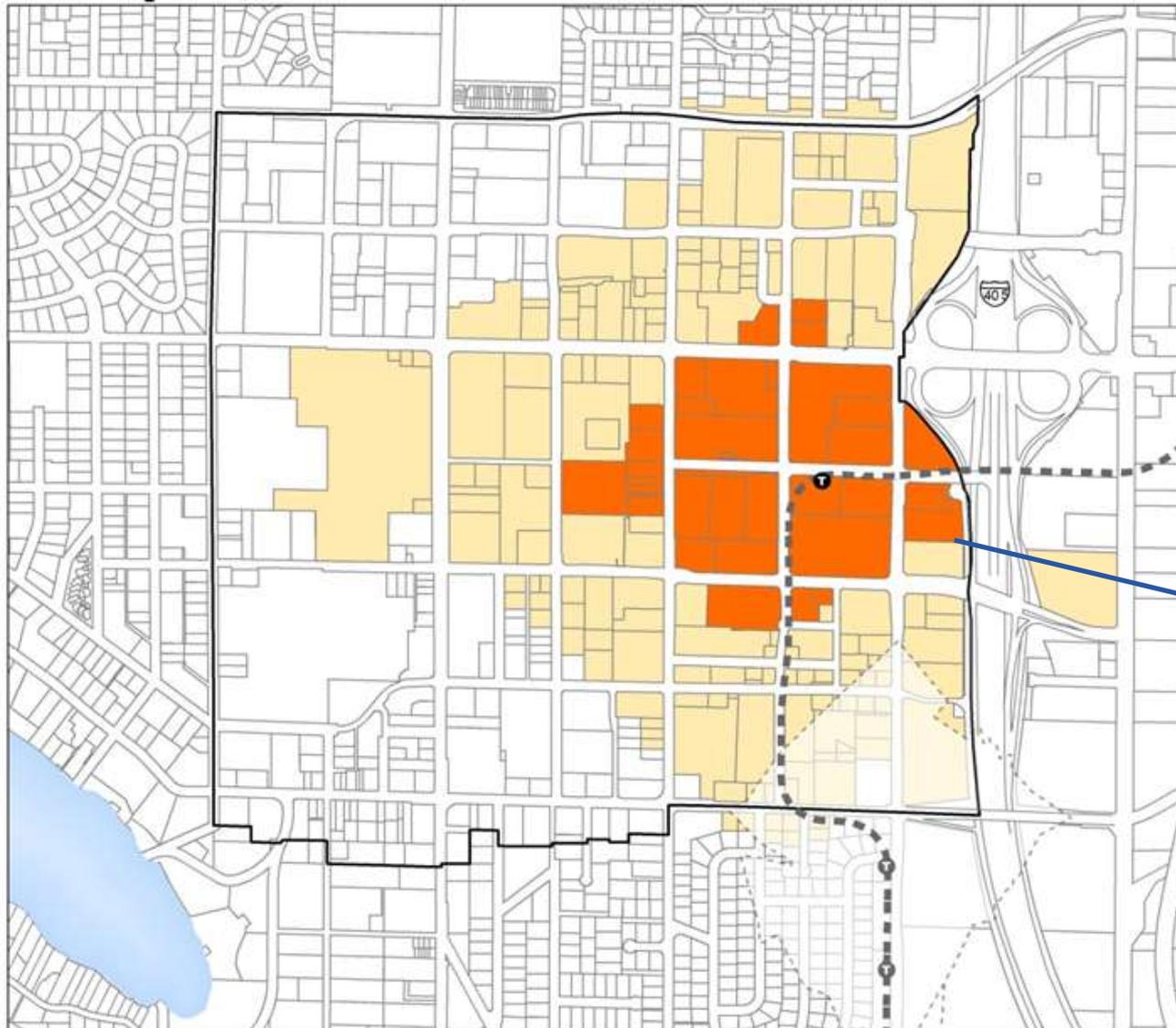
Night (22:00 – 01:00)



Residents Served: 27%

 Areas not served by transit during weekdays (i.e bus stop not within 1/4 mile or 15/30 minute or less service not provided)

Walkshed Analysis – Station Area Method

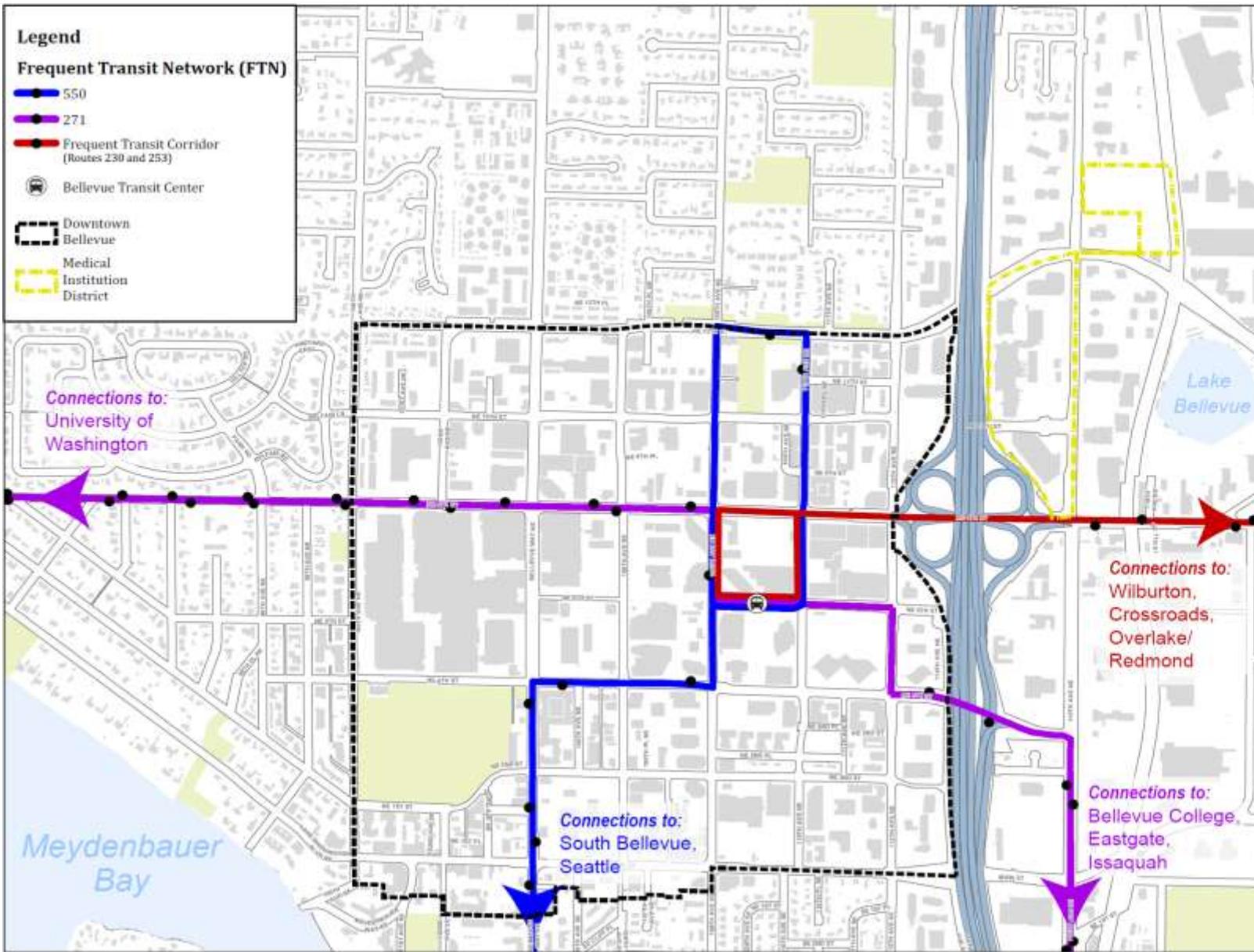


Calculated walk distance per time period

- Legend
- 3c Station Entrance
 - East Main 5 min Service Area (1320 ft.)
 - 3c 5 MIN PARCELS (1188 ft.)
 - 3c 10 MIN PARCELS (2508 ft.)

Downtown 2010

Transit



2010 Frequent Transit Coverage Downtown & Medical District

Downtown Transportation Plan Update

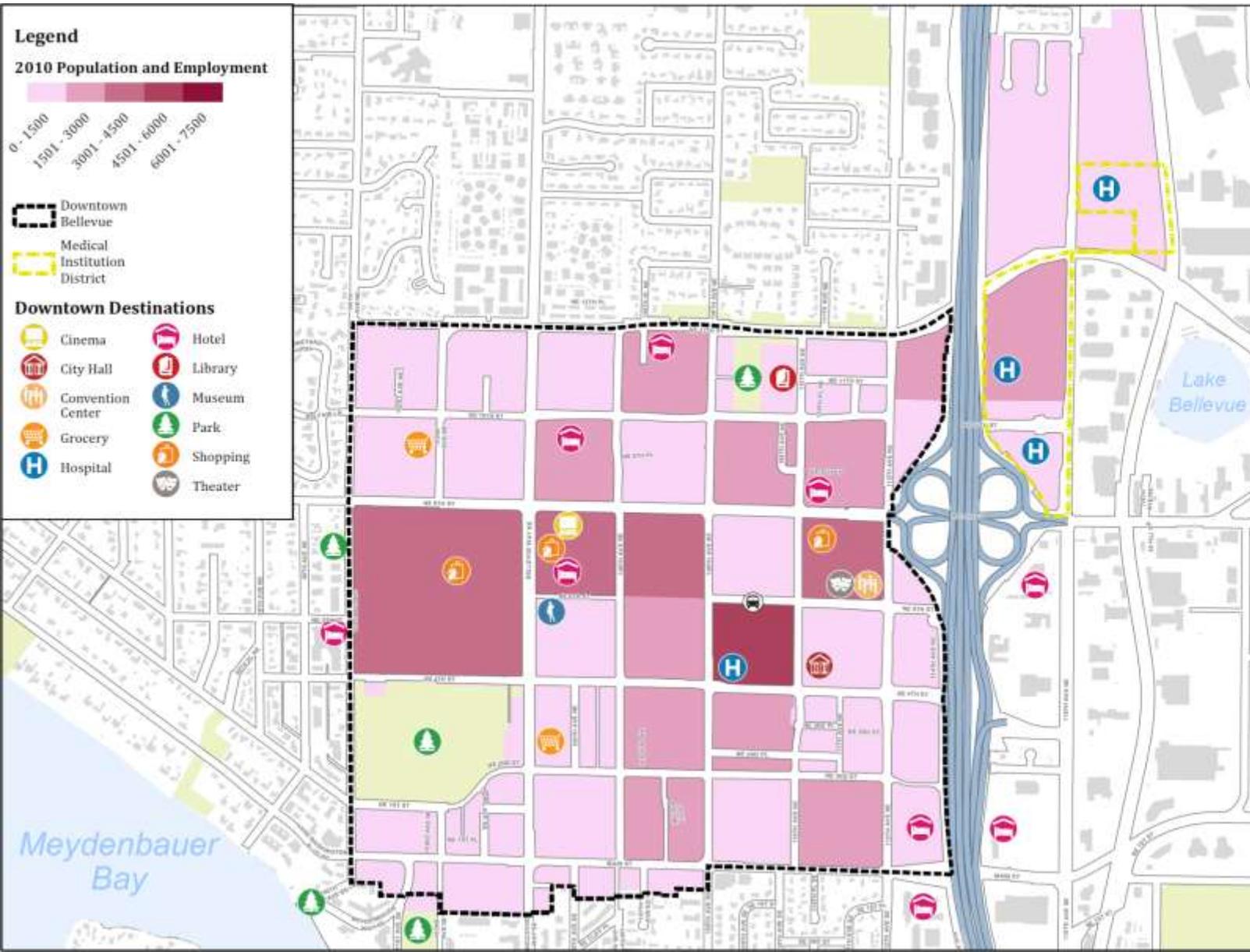
The City of Bellevue does not guarantee that the information on this map is accurate or complete. This data is provided on an "as is" basis and disclaims all warranties.
Coordinate System: State Plane, Washington North Zone
NAD83 NRSR2207 (Bellevue)



Source:
City of Bellevue
Building Footprints
Spring 2009

Downtown 2010

Land Use



Legend
2010 Population and Employment



- Downtown Bellevue
- Medical Institution District

Downtown Destinations

- Cinema
- City Hall
- Convention Center
- Grocery
- Hospital
- Hotel
- Library
- Museum
- Park
- Shopping
- Theater



2010 Population and Employment Downtown & Medical District

Downtown Transportation Plan Update

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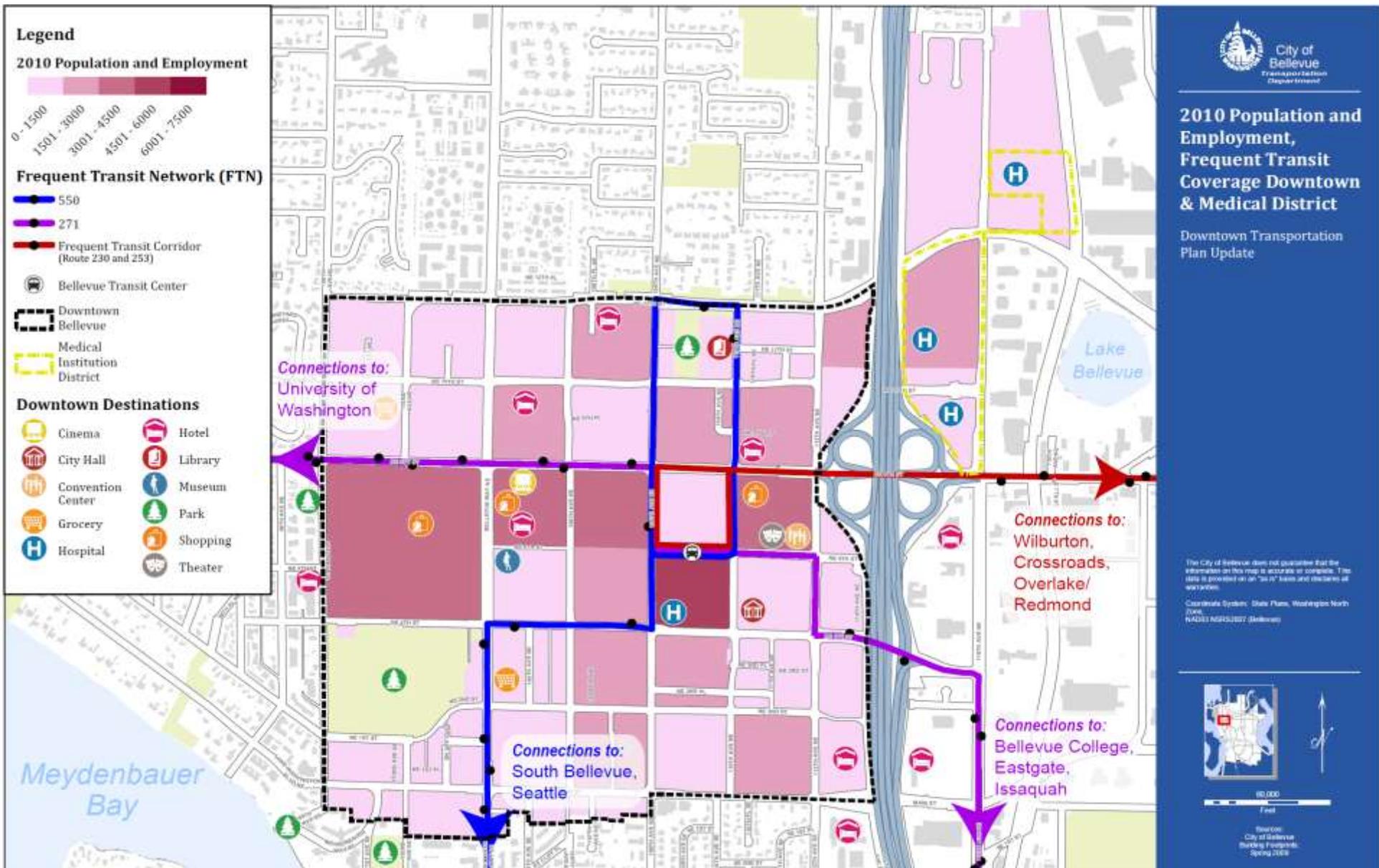
Coordinate System: State Plane, Washington North Zone, NAD83 5002307 (Bellevue)



Source: City of Bellevue, Building Footprints, Spring 2008

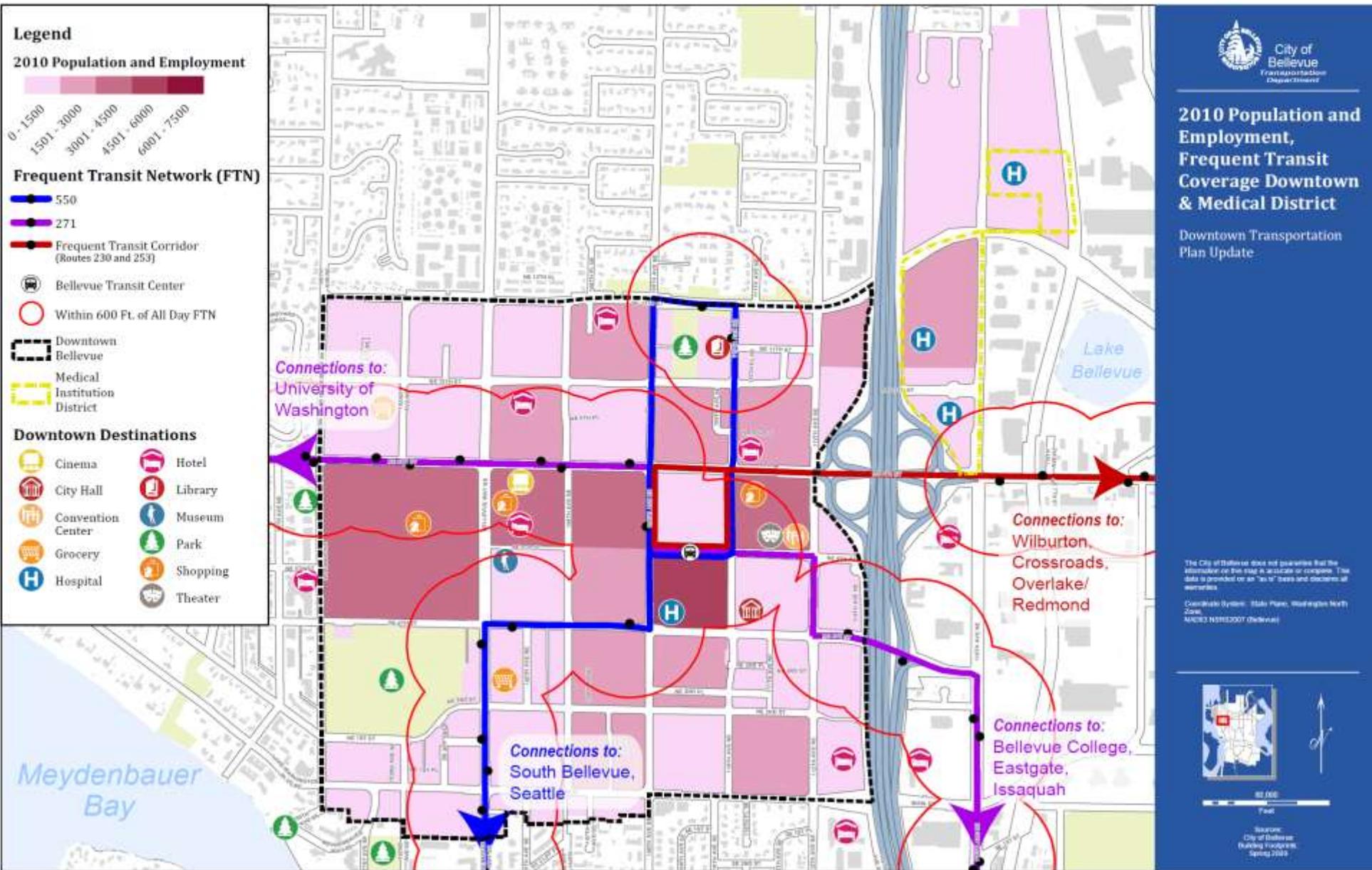
Downtown 2010

Transit + Land Use



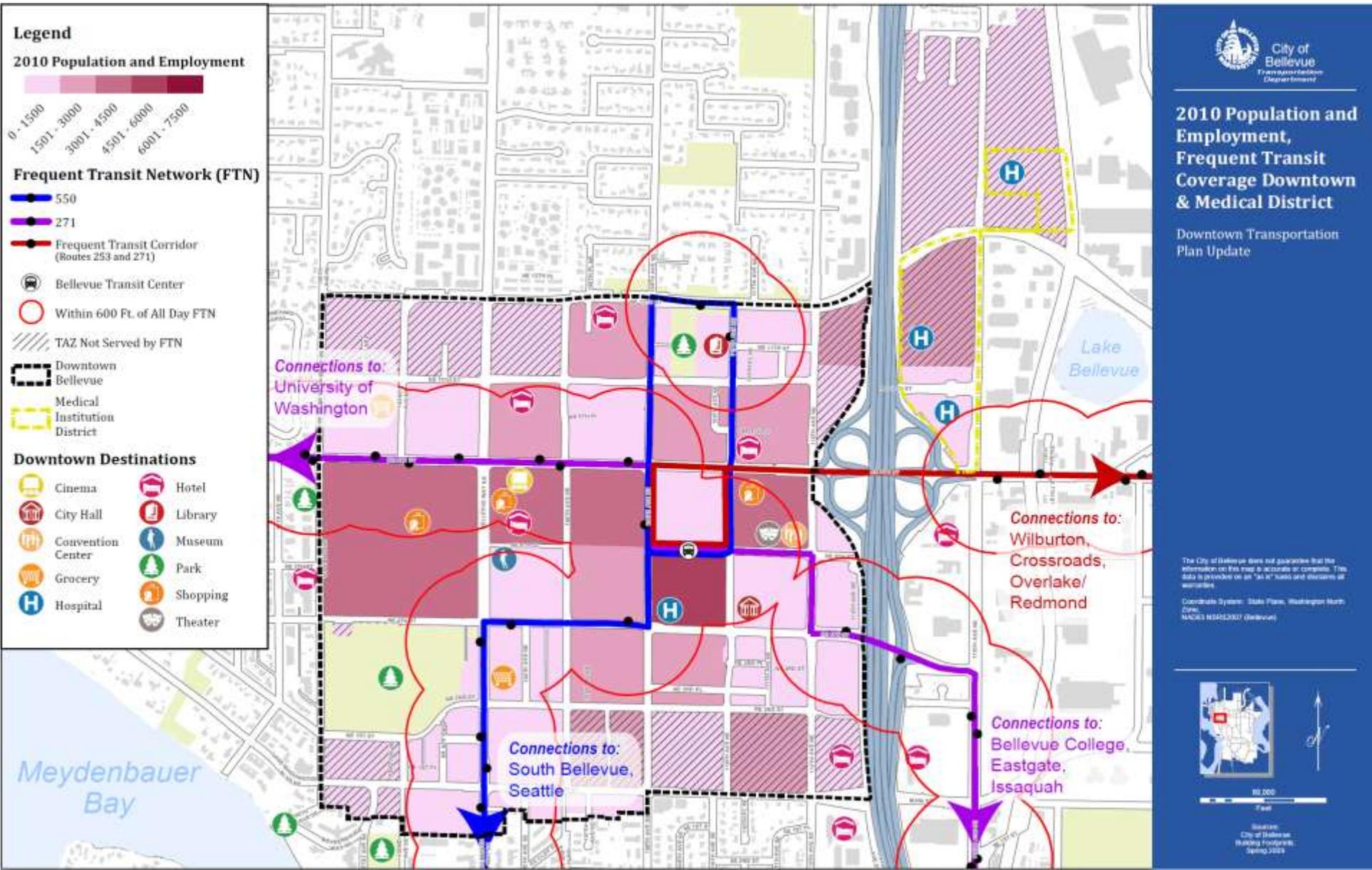
Downtown 2010

Transit + Land Use + 600' radius



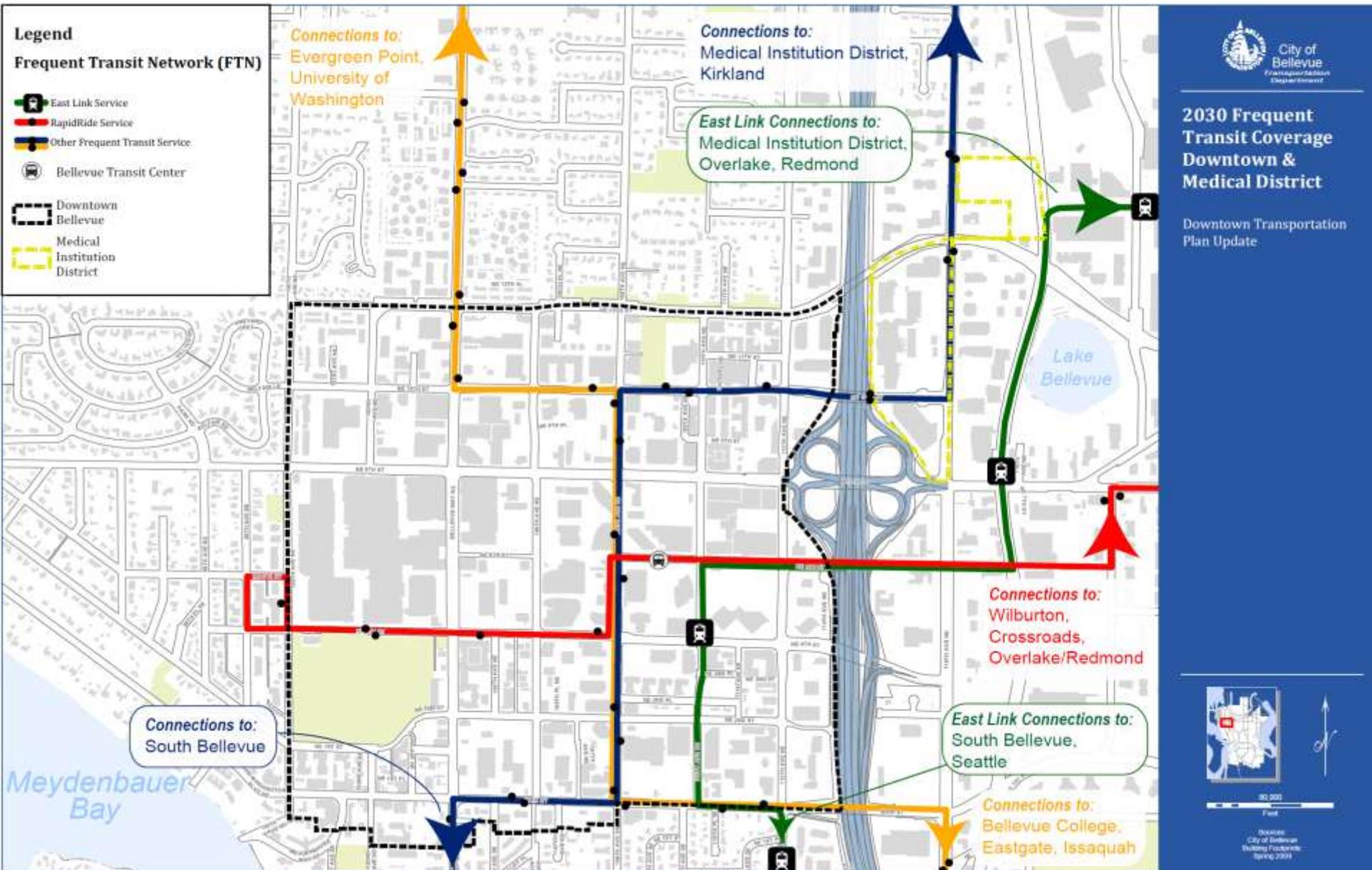
Downtown 2010

Transit + Land Use + 600' radius + Coverage



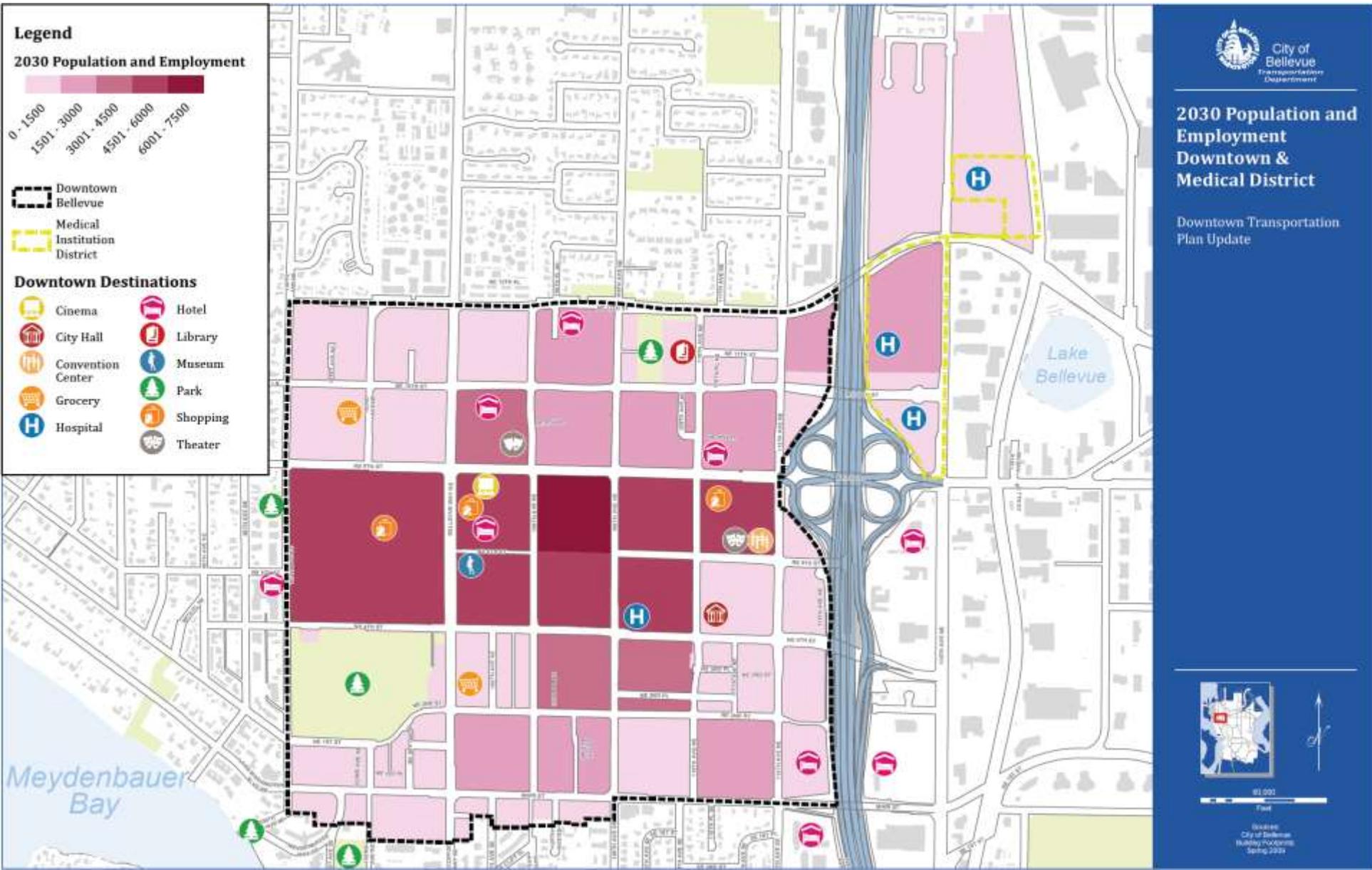
Downtown 2030

Transit



Downtown 2030

Land Use



2030 Population and Employment Downtown & Medical District

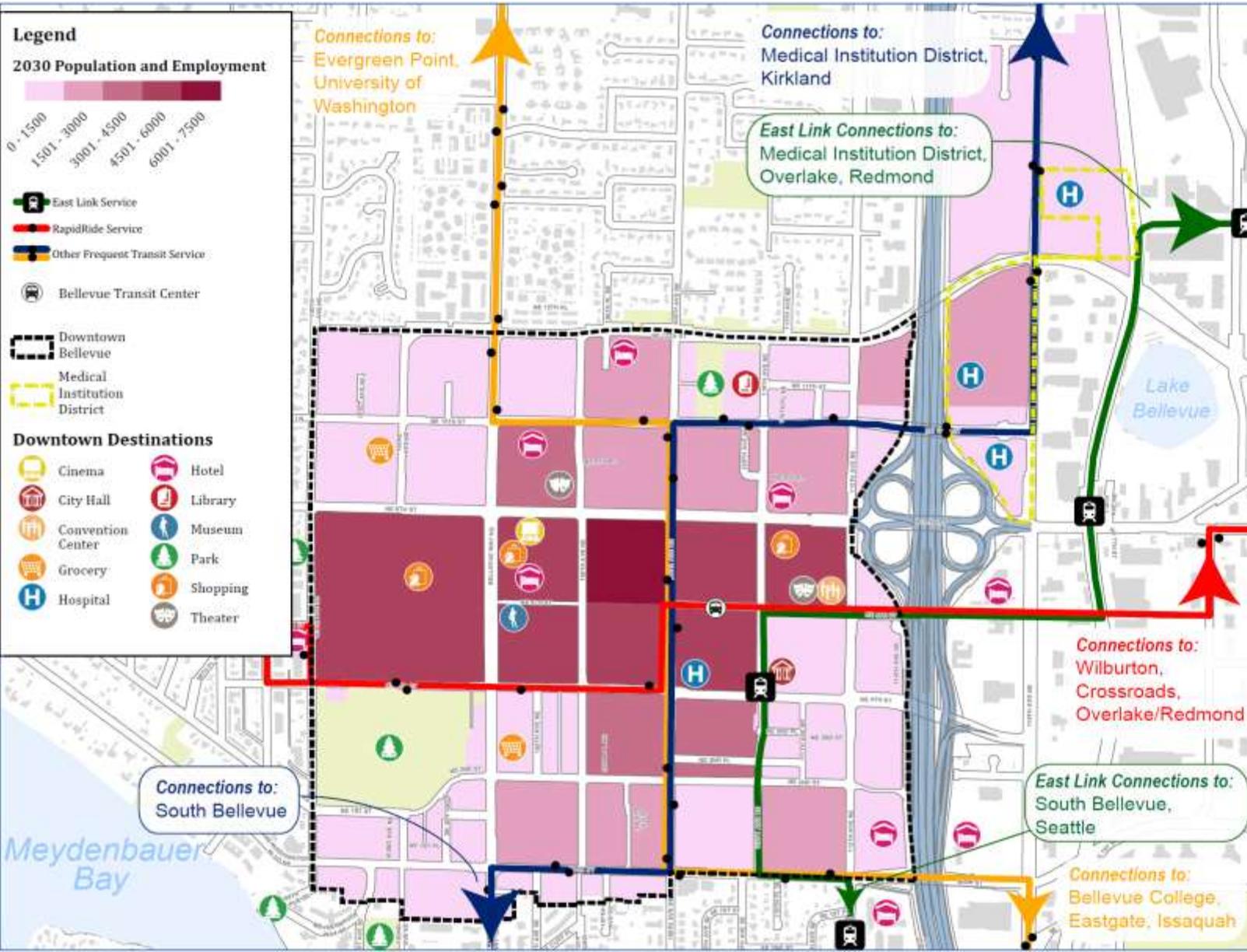
Downtown Transportation Plan Update



Source: City of Bellevue Building Programs Spring 2024

Downtown 2030

Transit + Land Use



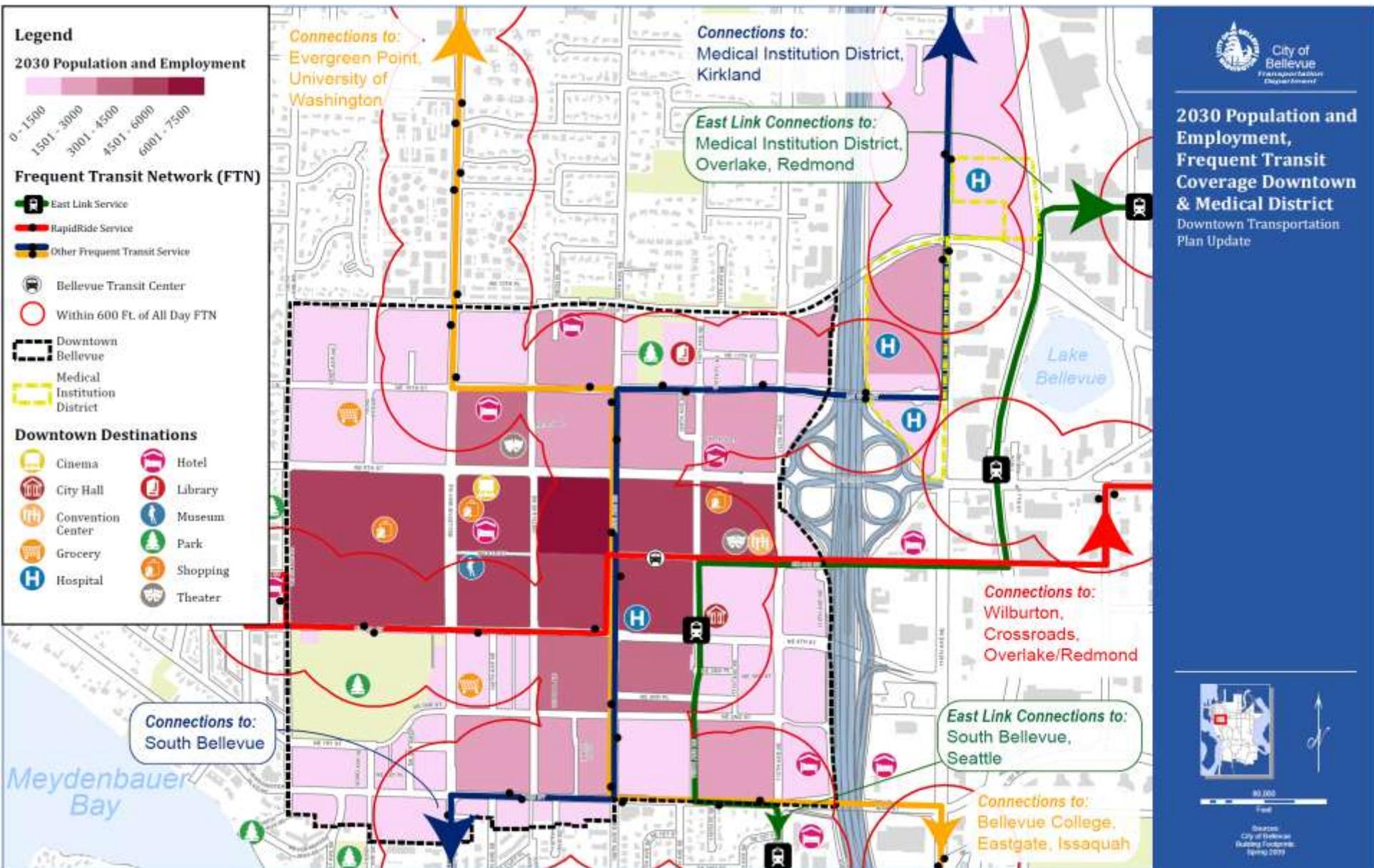
2030 Population and Employment, Frequent Transit Coverage Downtown & Medical District
 Downtown Transportation Plan Update



Source: City of Bellevue Building Footprints, Spring 2008

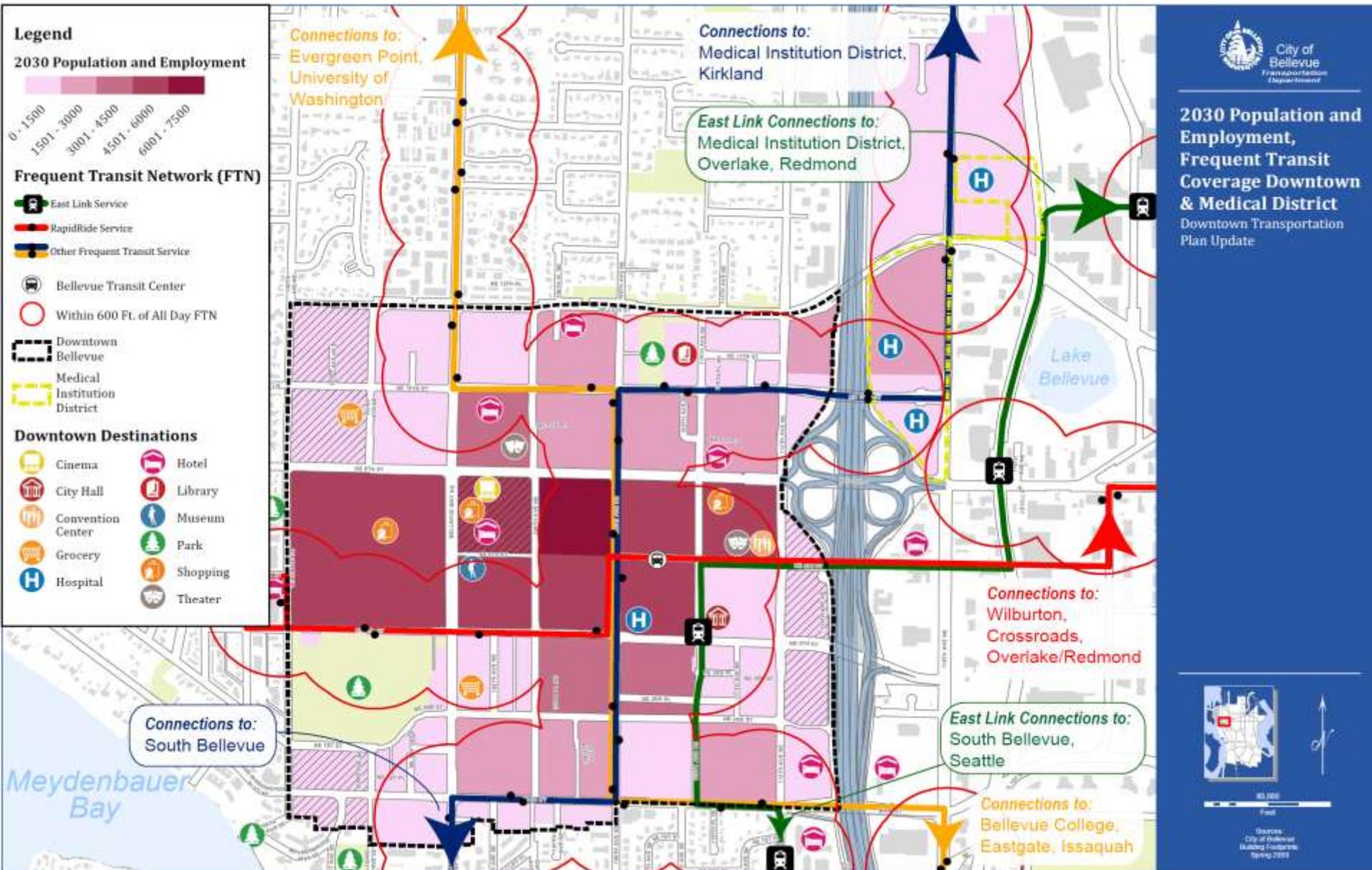
Downtown 2030

Transit + Land Use + 600' radius



Downtown 2030

Transit + Land Use + 600' radius + Coverage



Downtown Transit Coverage

By the Numbers

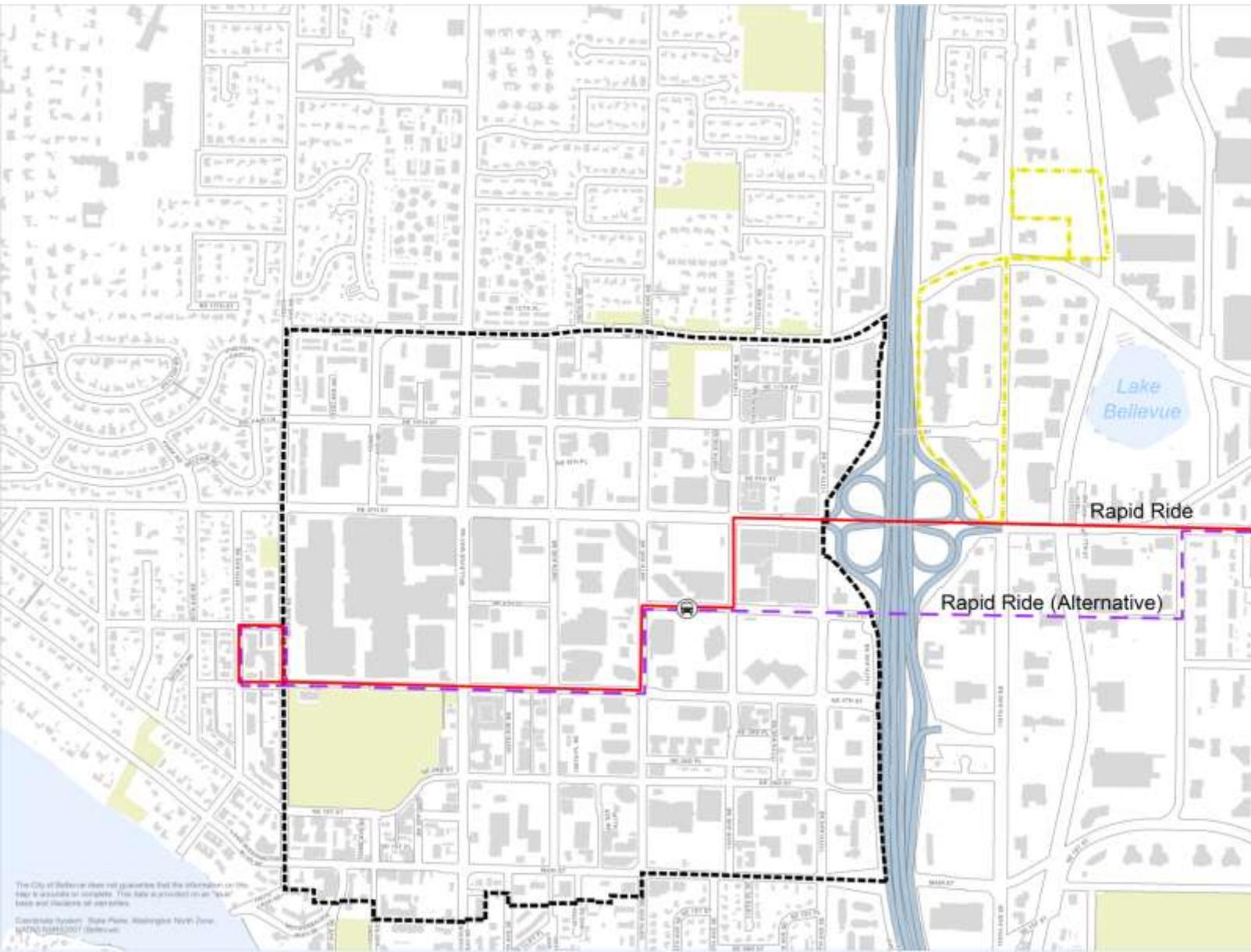
Downtown Residents and Employees in TAZs with access to frequent transit service (not including Medical Institution District)

- 2010 Residents and Employees: 86.4%
- 2030 Residents and Employees: 89.3%

Potential 2030 Transit Route Modifications

- 108th Avenue NE Transit Corridor
 - Explore further in speed and reliability analysis?
- Route 271: Use Bellevue Way, NE 10th St and Main Street?
- RapidRide: Extend west?, Use NE 6th St Extension?
- Other ideas???

Possible RapidRide Routes (TMP)



RapidRide Potential Routing Alternative Downtown & Medical District

Downtown Transportation
Plan Update

Rapid Ride

Rapid Ride (Alternative)



Source:
City of Bellevue
Building Footprints
Spring 2024

The City of Bellevue does not guarantee that the information on this map is accurate or complete. This data is provided on an "as-is" basis and does not constitute an offer.

Coordinate System: State Plane, Washington North Zone
NAD83 5000' GCS



Downtown Transportation Plan Update

Next Steps

Next (if time available): Review remaining transit components

February 14, 2013: Transportation Commission

- Downtown Transit – Capacity

March 14, 2013: Transportation Commission

- Downtown Transit – Speed and Reliability, Passenger Amenities

Downtown Transit Mobility – Capacity

- **Transit Center Capacity**
 - Passenger waiting space, boarding and alighting
 - Passenger circulation - transferring
 - Transit vehicle circulation capacity
 - Bus layover space
 - **Transit demand to Downtown Bellevue from the region and other Bellevue neighborhoods**
 - MOEs: Percent of Downtown residents and employees served and total Downtown transit trips per capita
 - Serve Medical Institution District
 - How to serve transit demand with Bus, BRT, LRT, other technology
- Capacity**



DOWNTOWN BELLEVUE TRANSIT

TRANSIT SERVICE CAPACITY

Transportation Commission Comments 12/14/12

- Transit Center capacity – passengers and vehicles
- Better distribution to reduce stress on Transit Center
- Streets – lots of bus traffic on congested streets
- Others?

DOWNTOWN BELLEVUE TRANSIT

TRANSIT SPEED AND RELIABILITY

Transportation Commission Comments 12/14/12

- If considering bus bulbs, also consider traffic impacts
- Transit priority corridors – emphasize dependable speed
- Right turning vehicles delayed due to pedestrians
- Layover space
- Bus vehicle size can reflect demand and purpose
- Others?

Downtown Transit Mobility – Comfort/Access/Information

- MOE: Preferred components for transit stops appropriate to the transit stop typology
 - Shelters with amenities
 - Passenger information – maps, electronic
- Wayfinding to/from neighborhood destinations
- Sidewalks and other access: crosswalks, mid-block crossings
- Bicycle facilities: on-street bicycling facilities and wayfinding, short-term and long-term bicycle parking near transit

Comfort/Access/Information



DOWNTOWN BELLEVUE TRANSIT TRANSIT PASSENGER COMFORT, ACCESS AND INFORMATION

Transportation Commission Comments 12/14/12

- Invite entrepreneurs – coffee and other vendors to adopt a bus stop
- Provide wifi at bus stops
- Information on restroom availability – wayfinding
- Maps
- Shelter is critical – rain
- Off-board fare payment
- Provide electronic transit information at bus stops also smart phone apps
- Safety - especially considering night service (lighting, phone, camera, etc)
- Others?



Downtown Transportation Plan Update

Thank you!

www.bellevuewa.gov/DowntownTransportationPlanUpdate