



SWEDISH FIRST HILL MEDICAL CENTER

SDC - SKYBRIDGE

07 APRIL 2016

PERKINS+WILL | SiteWorkshop

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COMMISSION COMMENTS FROM 3/3 MEETING

1. Who uses the bridge, why?
2. Alternative routes at street level
3. Skybridge design
4. Effect on existing buildings
5. Skybridge design details: structure, glazing, width, height, etc.
6. Function: existing and proposed program
7. Public art, locate near or on the bridge

SEATTLE DESIGN COMMISSION

SKYBRIDGE REVIEW MERIT

As part of its review and recommendations, the Commission first considers the merit of installing the existing skybridge. For new skybridges, the Commission considers the following standards found in SMC 15.64:

- Adequacy of horizontal and vertical clearance
- View blockage
- Interruption or interference with existing streetscape or other street amenities
- Impacts due to reduction of natural light
- Reduction of and effect on pedestrian activity at street level
- Number of pedestrians that use the skybridge
- Effect on commerce and enjoyment of neighboring land uses
- Availability of reasonable alternatives
- Effect on traffic and pedestrian safety
- Accessibility for the elderly and handicapped

BACKGROUND

SWEDISH FIRST HILL



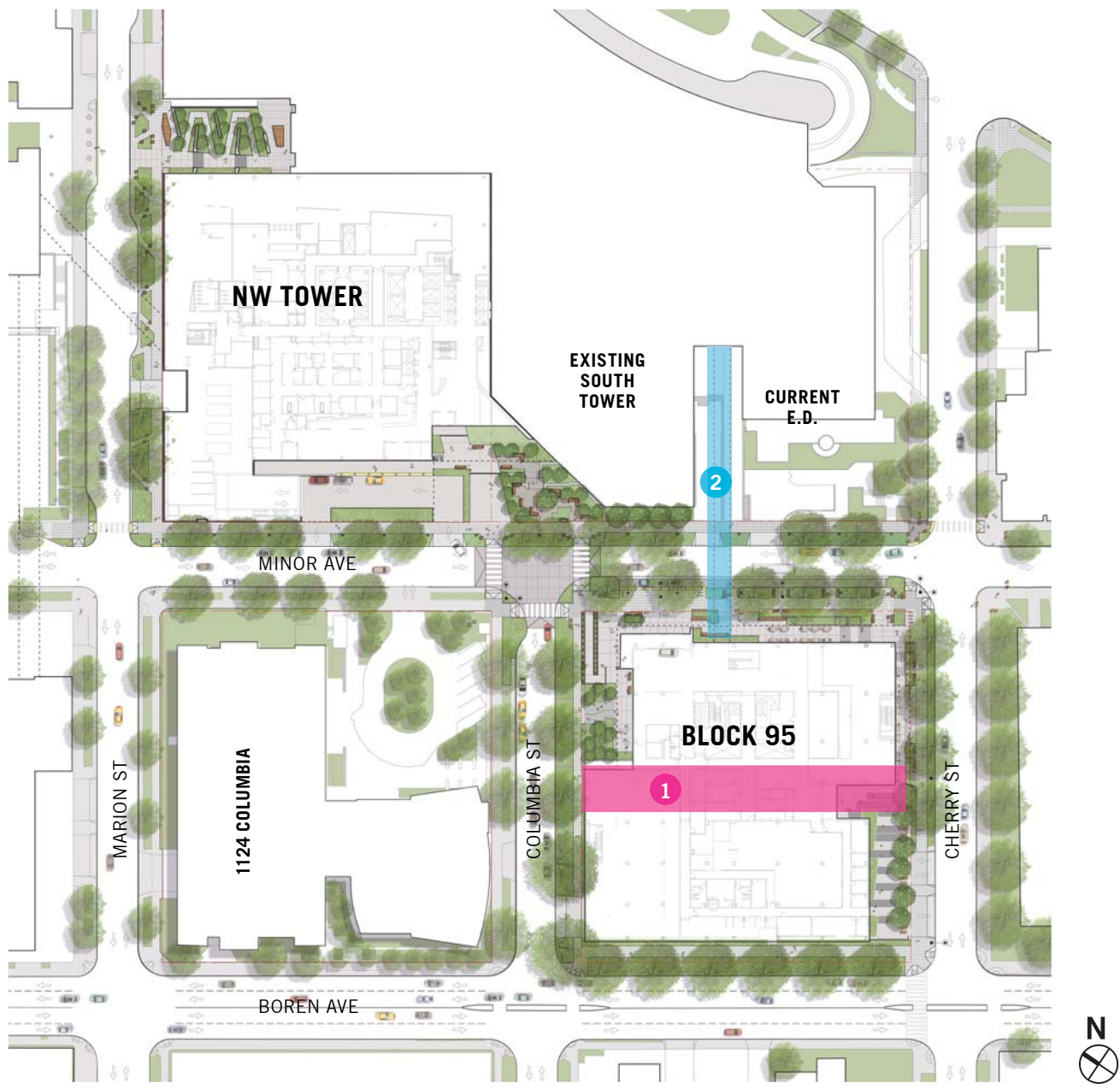
SWEDISH FIRST HILL



PROPOSED PETITIONS

SDOT PETITIONS

- 1 Block 95 Alley Vacation
- 2 Minor Skybridge



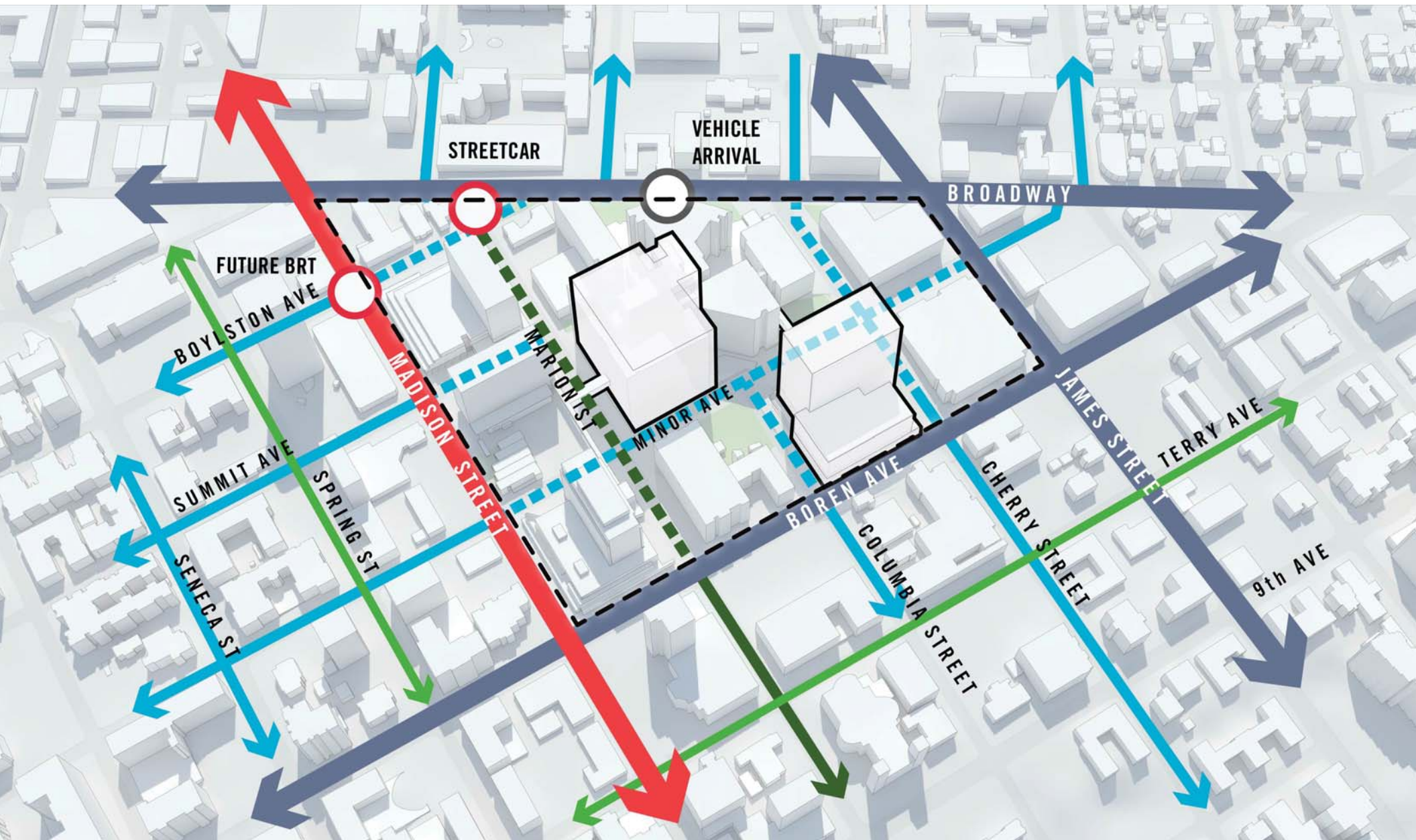
SKYBRIDGE SCHEDULE

REVIEW MEETINGS

19 December 2015	Skybridge Review Committee
08 February 2016	Skybridge Review Committee Response
09 February 2016	Prep for Seattle Design Commission
03 March 2016	Seattle Design Commission Briefing
08 March 2016	Skybridge Review Committee
18 March 2016	Prep for Seattle Design Commission
22 March 2016	Skybridge Review Committee
07 April 2016	Seattle Design Commission Review

- Shopping Street
- Arterial Street
- Green Street
- Neighborhood Greenway
- Neighborhood Street

SWEDISH FIRST HILL CONNECTIONS



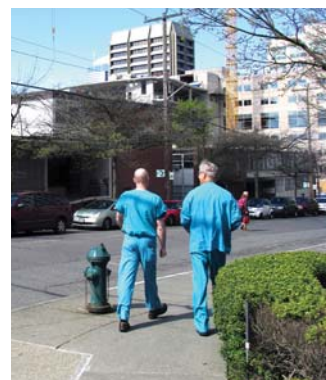
NEIGHBORHOOD LANDMARKS AND CHARACTER



St James



8th Ave Hill Climb



Healthcare Community



Frye Art Museum



Sports and Recreation



Versatile Transit



Jefferson Terrace



Community Gardens



Multi-family Housing



Harborview Medical



Town Hall



O'Dea High School

NEIGHBORHOOD EXISTING SKYBRIDGES



Existing Marion skybridge



Swedish Orthopedic skybridge



Harbor View skybridge



Existing Marion skybridge



East James way skybridge

SKYBRIDGE USERS

SKYBRIDGE NEED

PATIENTS:

Many patients in Block 95 will be high acuity, mobility-impaired (wheelchairs, walkers, shortness of breath, etc) and are often connected to support equipment such as oxygen tanks.

In Block 95, projected patient visits are over 2,000 per day. Of those, at least 10% (200 patients) will need to go directly to the hospital for a diagnostic evaluation, emergency visit, or procedure (stent, etc).

PROVIDERS:

Expect 230 procedure per year that interventionalists need to respond to from their office to the main hospital.

Anticipate approximately 3 code calls per month in Block 95.

Surgical physicians are called for urgent response between 4 and 6 times daily.

Patients with open chests expected 3 times per month.

SKYBRIDGE NEED

EQUIPMENT:

Medical technicians transport medical equipment (e.g. echocardiography cart) between Block 95 and the hospital, approximately 350 times per year. This equipment is very expensive (\$160,000), requires sensitive calibration, and cannot be transported outdoors. Cart is very heavy, requiring two people to transport it.



SKYBRIDGE PURPOSE - BUILDINGS FUNCTION / PROGRAM

NORTHWEST TOWER PROGRAM

Surgery
Intensive care unit
Emergency Department
Inpatient Imaging
Dining
Registration
Pharmacy
Hospital Retail
Connection to rest of campus

BLOCK 95 PROGRAM

Clinics
Lab
Imaging
Cafe
Parking
Loading
Materials Management
Kitchen



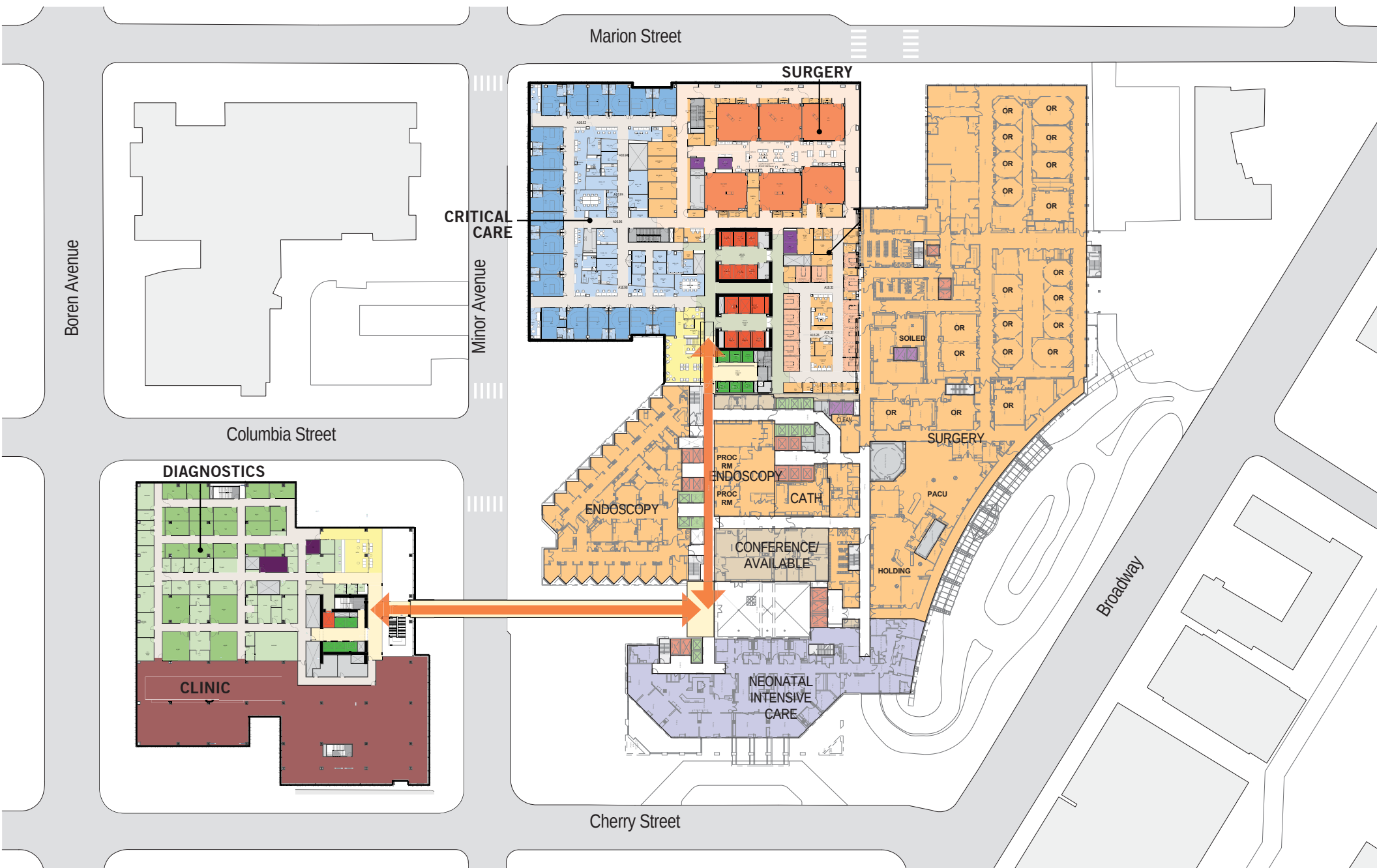
This architectural section drawing illustrates the vertical layout of the Northwest Tower. The building is divided into several functional zones:

- Floors 01-03:** Ground floor (01) includes a Restaurant, Lobby, and Lab. Floor 02 includes a Clinic and Lobby. Floor 03 includes a Clinic.
- Floors 04-05:** Floor 04 includes a Clinic. Floor 05 includes a Clinic and Mechanical room.
- Floors 06-16:** Floors 06 through 16 are designated as Clinic floors, each featuring a Mechanical room.
- Basement Levels:**
 - Level A:** Includes a Loading dock and Kitchen.
 - Levels B-G:** Designated as Parking levels, with Level B also serving as a Material Management area.

A prominent red arrow labeled "PARKING ELEVATORS" indicates the vertical circulation between the parking levels and the ground floor. To the right, a cross-section of the "TUNNEL BEYOND" is shown, with levels B, C, and D corresponding to the Emergency Department, Parking, and Materials Management/Parking areas, respectively. The drawing also shows the building's connection to Boren Ave and Minor Ave, and its proximity to the Northwest Tower.

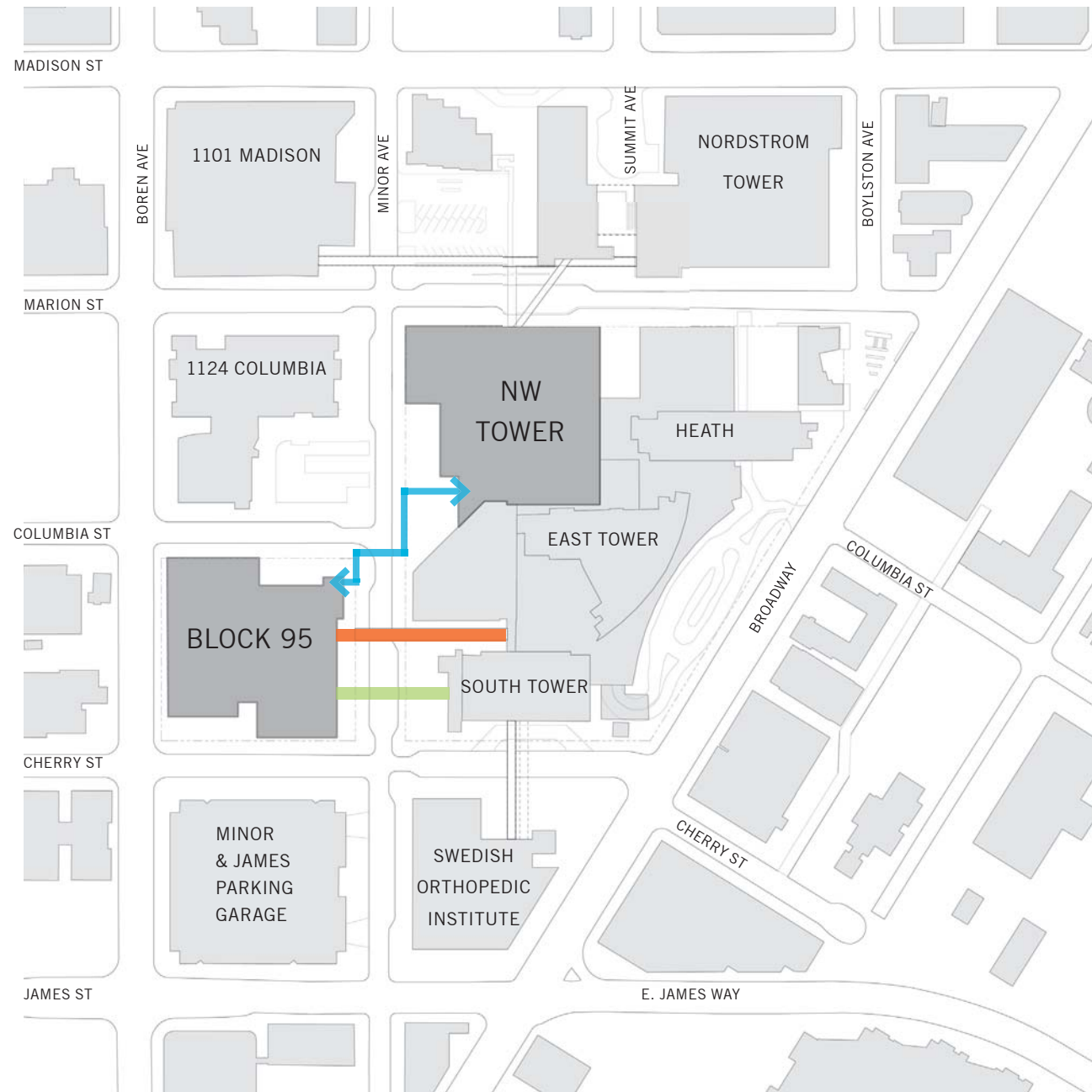
Seattle Design Commission | Skybridge Review | April.7.2016 | 17

SKYBRIDGE PURPOSE // TRAVEL ROUTE



SKYBRIDGE ALTERNATES

-  At grade
-  Below grade (tunnel)
-  Above grade (skybridge)



ALTERNATE TRAVEL ROUTES - AT GRADE

Adds ambulance circulation to street

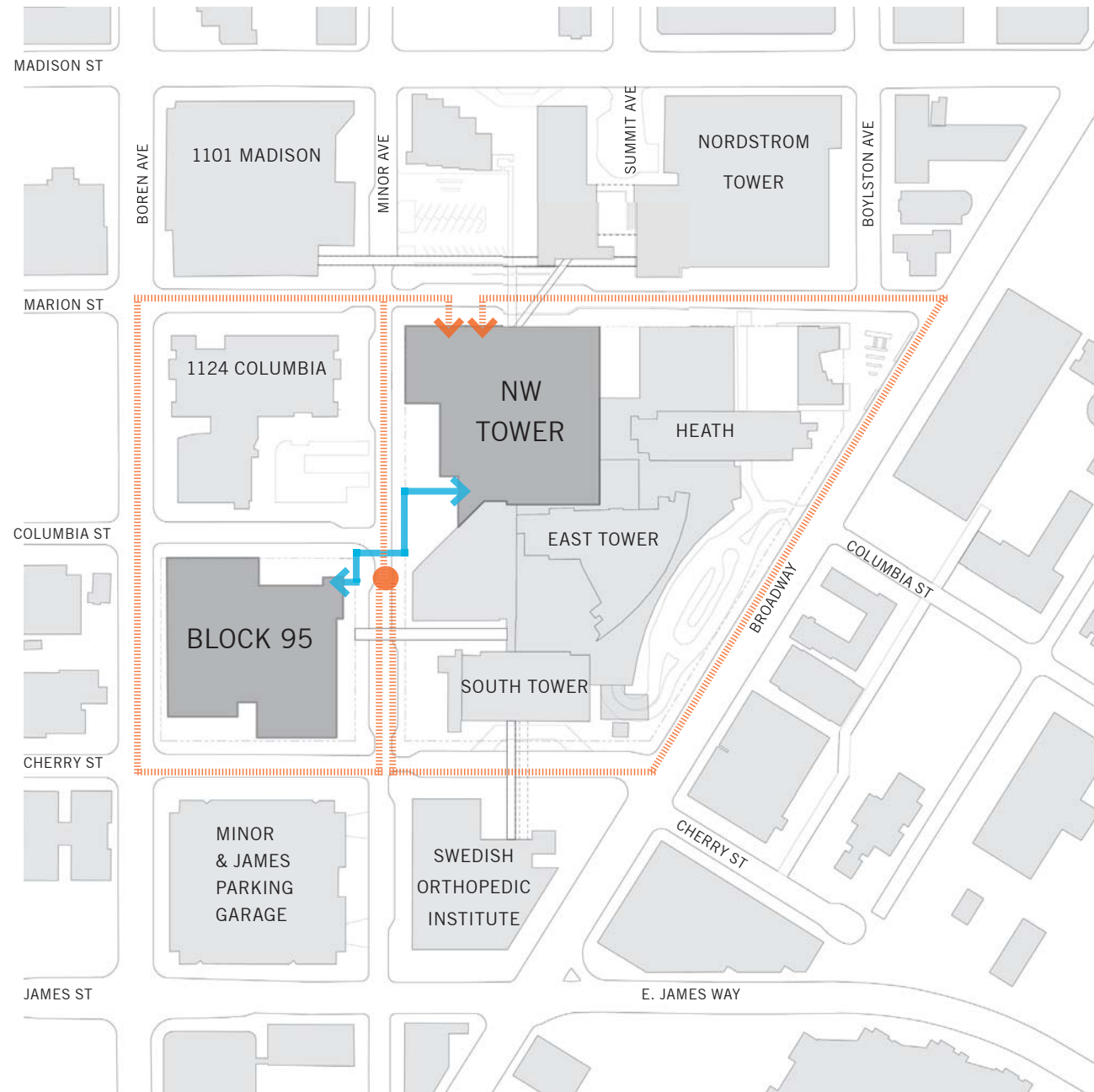
Effects pedestrian safety

Added time for patient to receive required care

Adds circulation for patients staff and visitors requiring time sensitive procedures

 Circulation with Street Crossing Alternative

 Ambulance Route (for patients who cannot use street crossing)

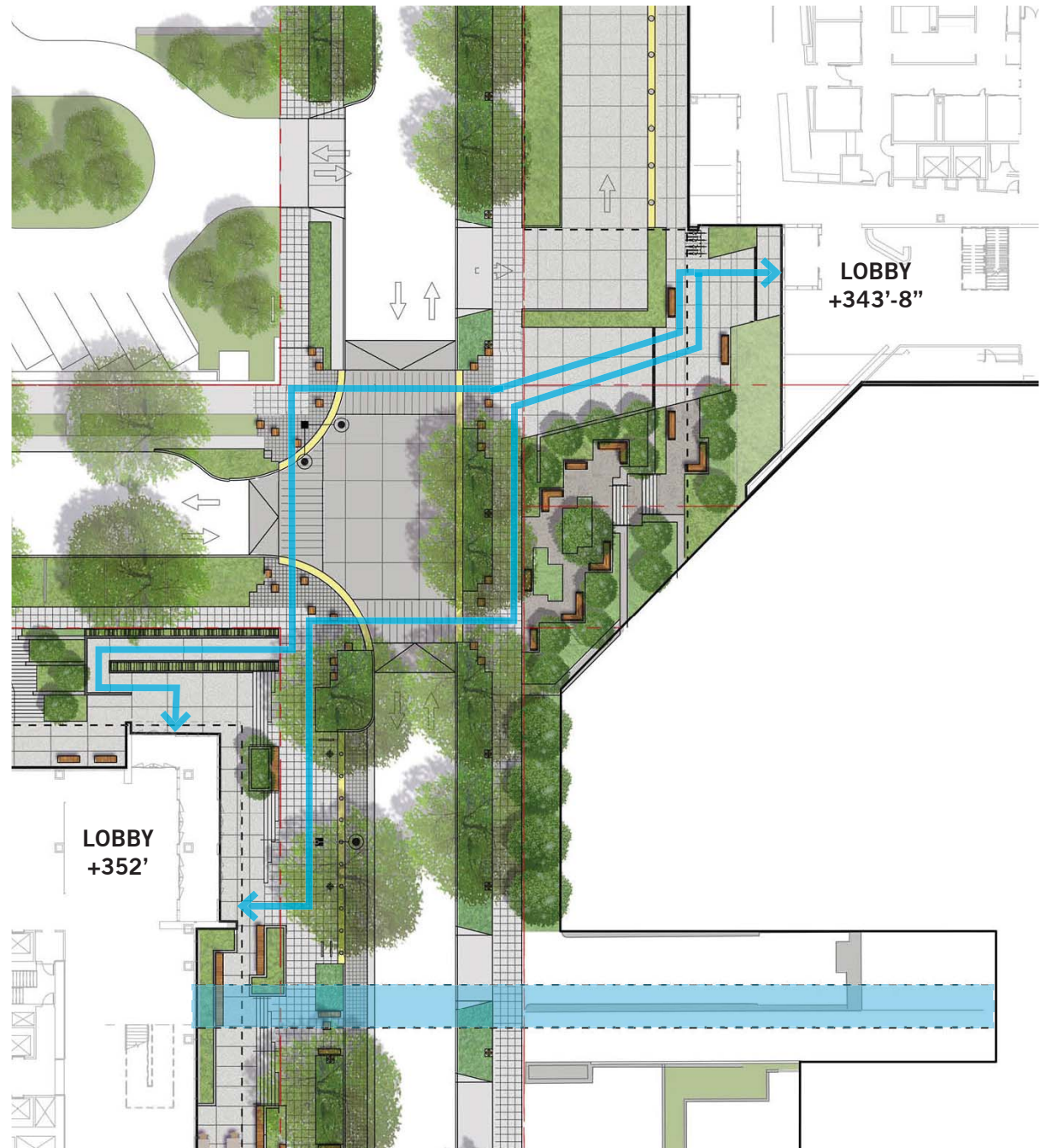


ALTERNATE TRAVEL ROUTES - AT GRADE

Requires mobility impaired patients to travel sloped and ramped surfaces, often in inclement weather

Sidewalks have a 6% slope on Minor Avenue

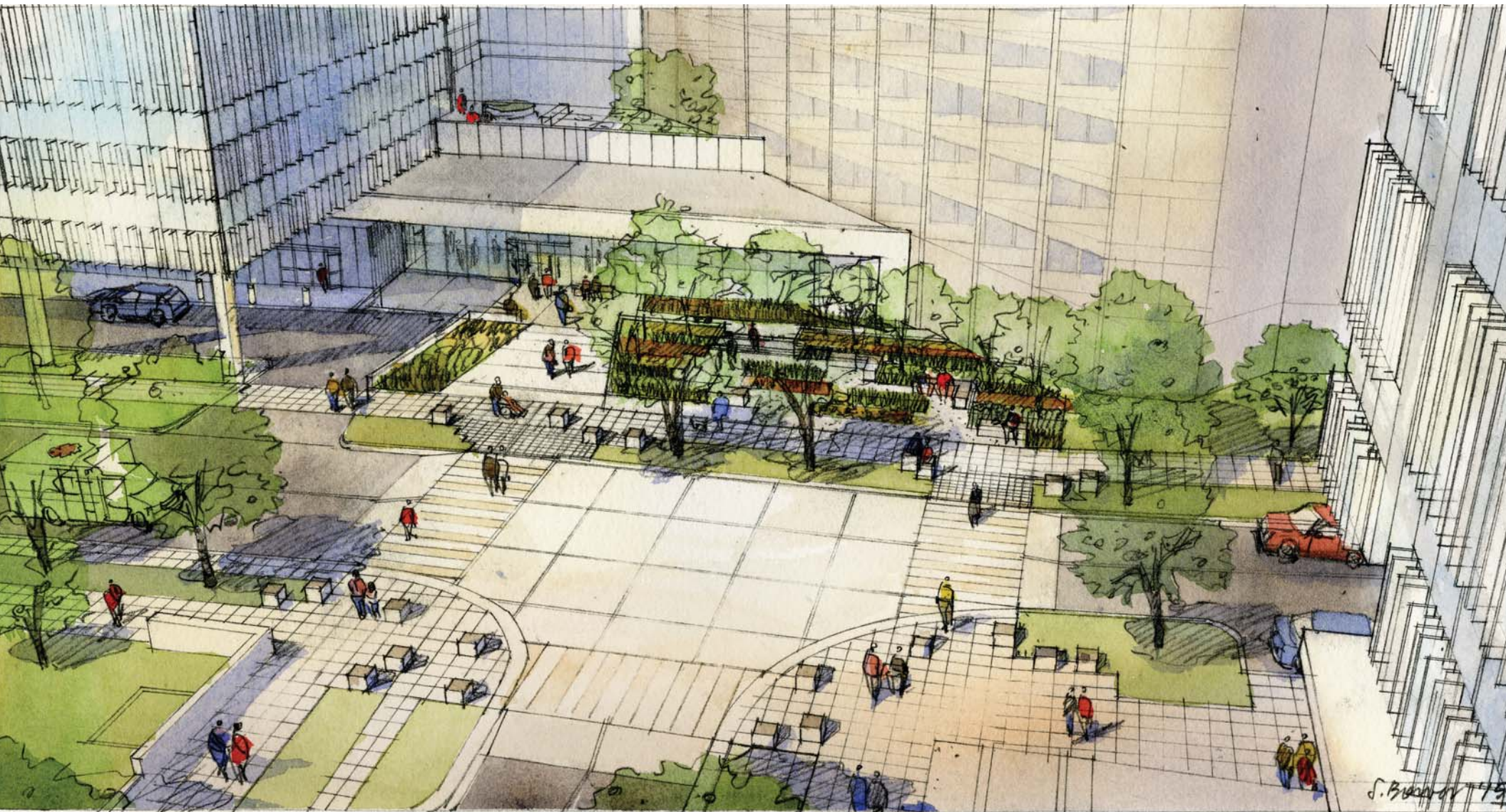
Some highly calibrated, sensitive, and expensive equipment cannot be exposed to inclement weather and uneven exterior sidewalk surfaces



GROUND LEVEL STREETSCAPE: BLOCK 95 ENTRY



GROUND LEVEL STREETSCAPE: NORTHWEST TOWER ENTRY

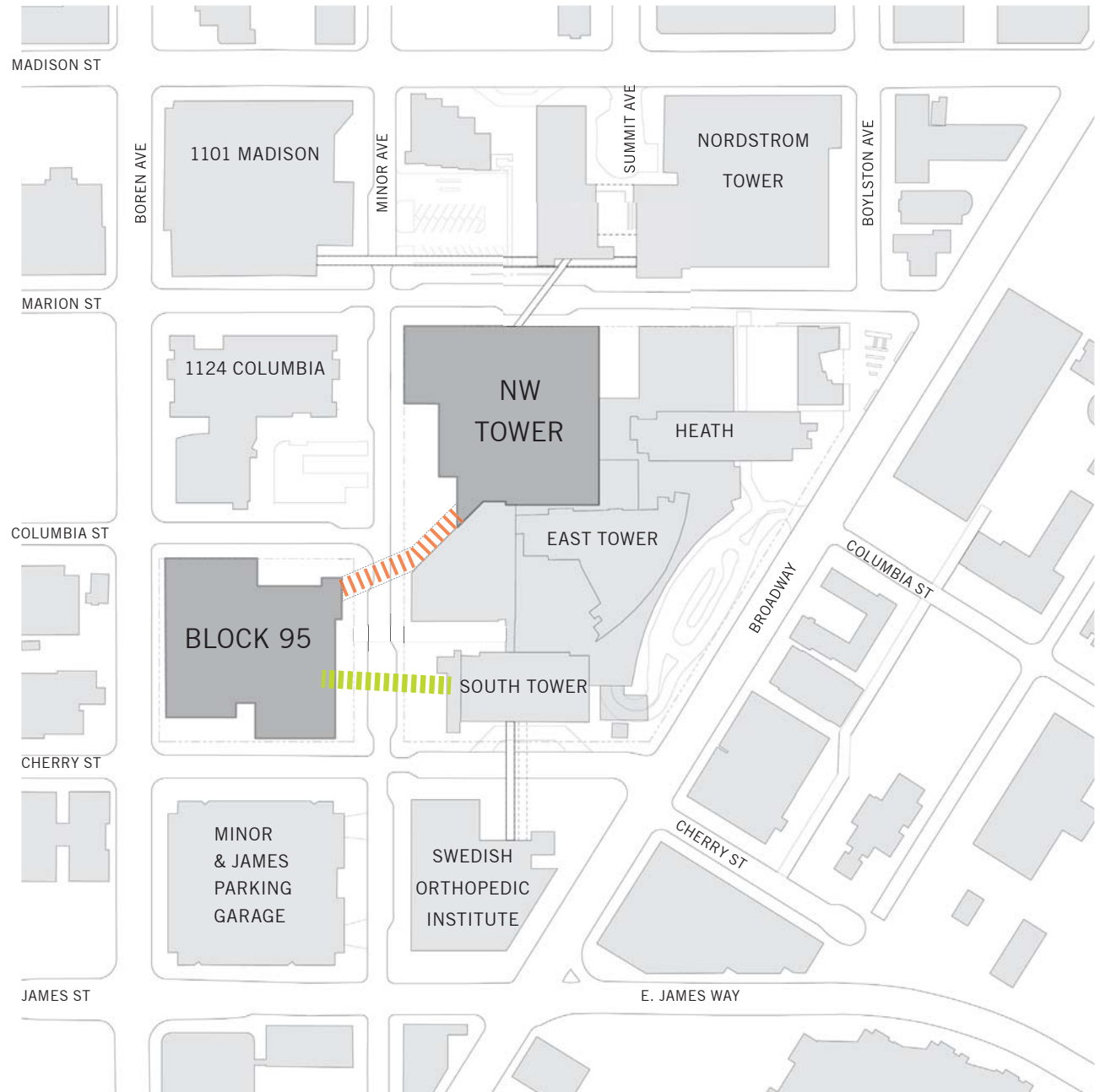


ALTERNATE TRAVEL ROUTES - BELOW GRADE

New service tunnel cannot accommodate pedestrian or patient traffic safely next to all of the service equipment that is required

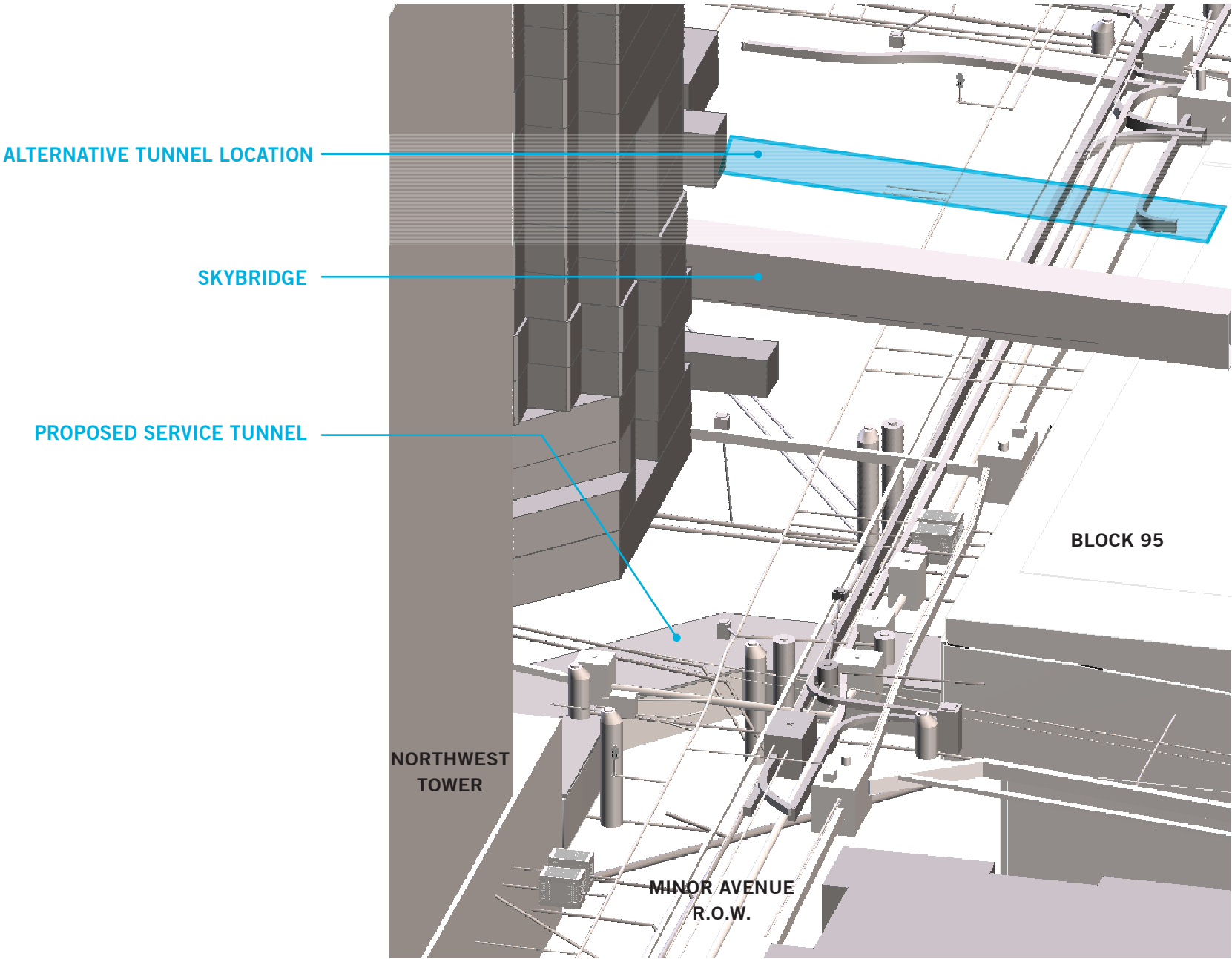
Patient experience is compromised by the need to use multiple additional elevator transfers and circulate through service and parking levels

Tunnel alternative at South Tower conflicts with essential surgery program

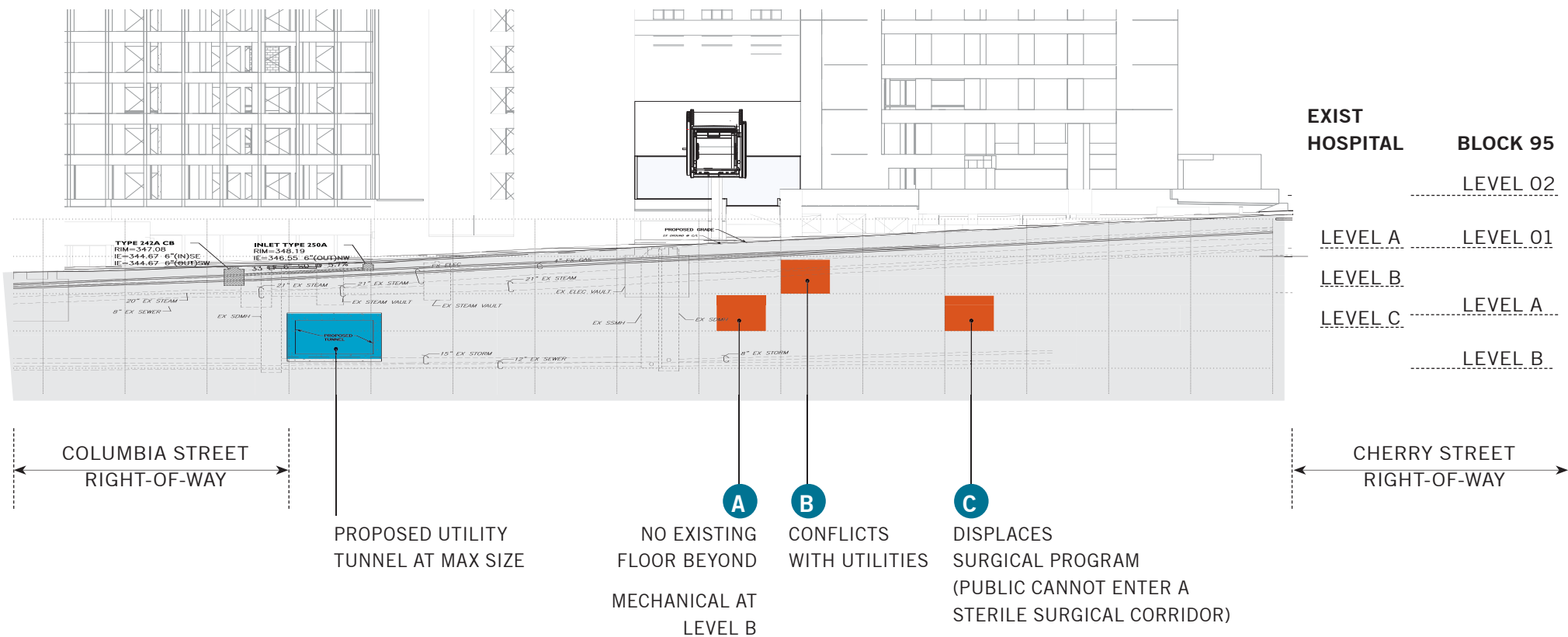


- Service Tunnel
- Circulation with Tunnel Alternative

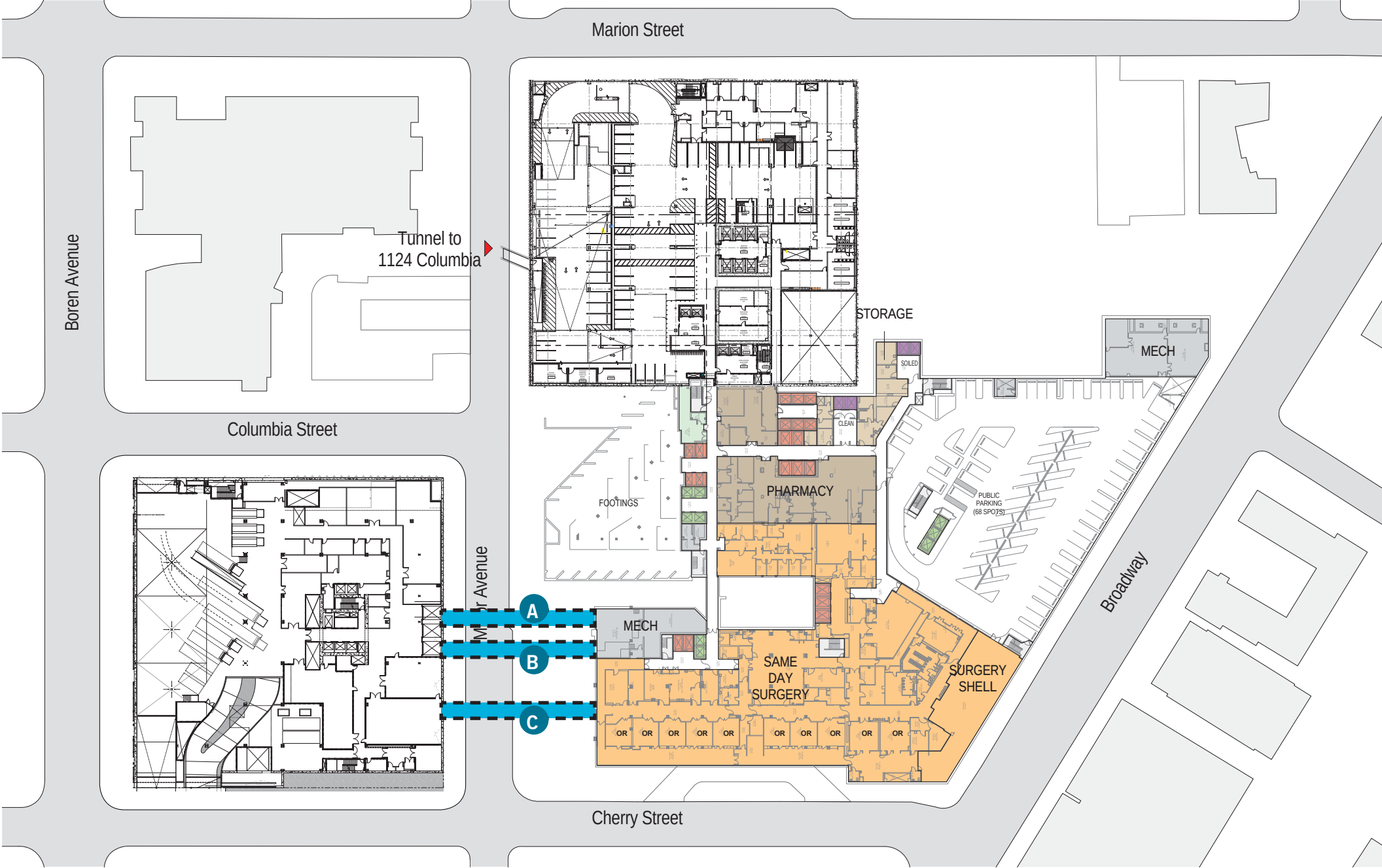
ALTERNATE TRAVEL ROUTES -BELOW GRADE UTILITIES



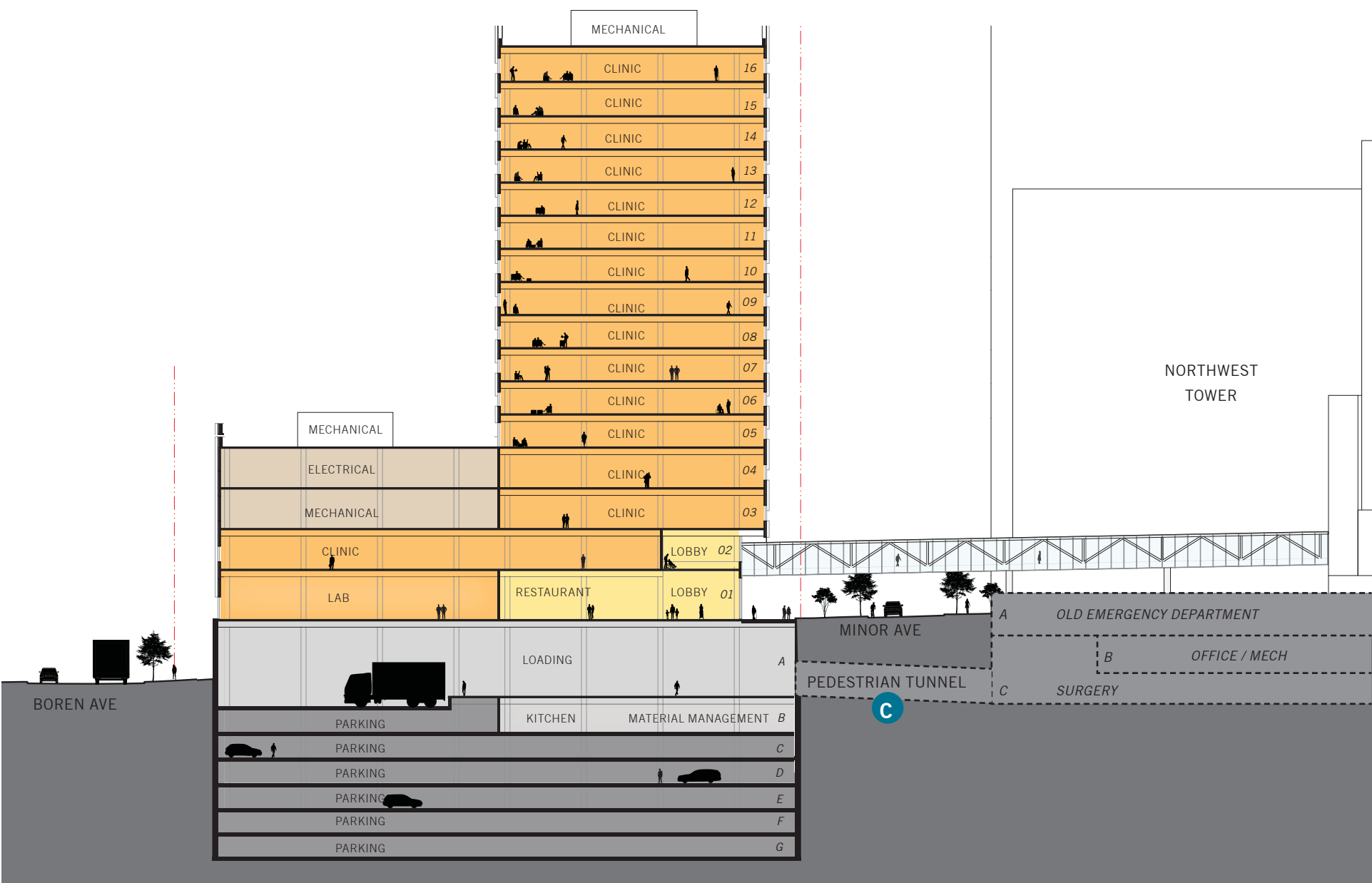
TUNNEL ALTERNATIVES



TUNNEL ALTERNATIVES // BLOCK 95 LEVEL A AND HOSPITAL LEVEL C

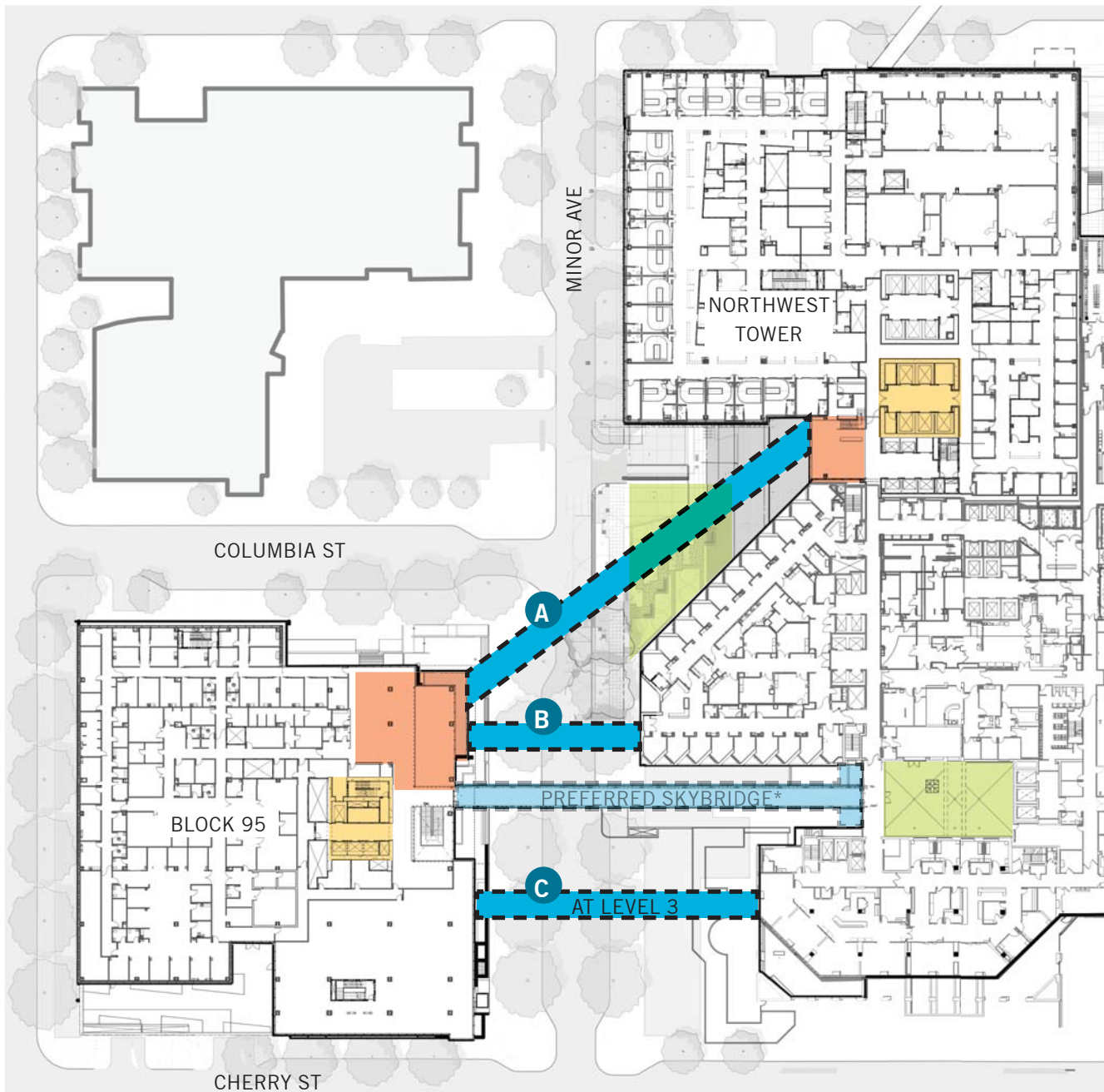


TUNNEL ALTERNATIVES



Building Section East-West Looking North

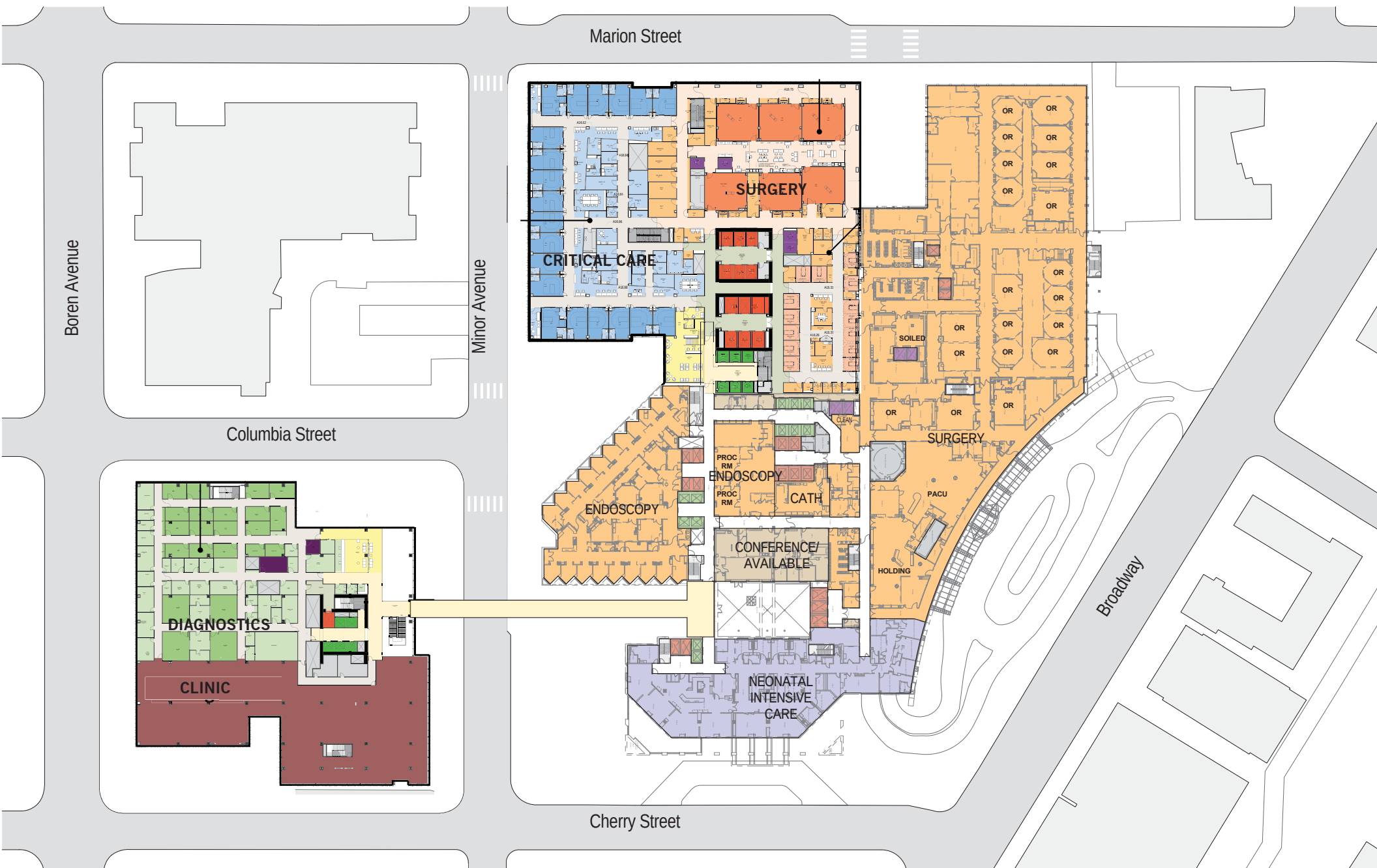
SKYBRIDGE ALTERNATIVES



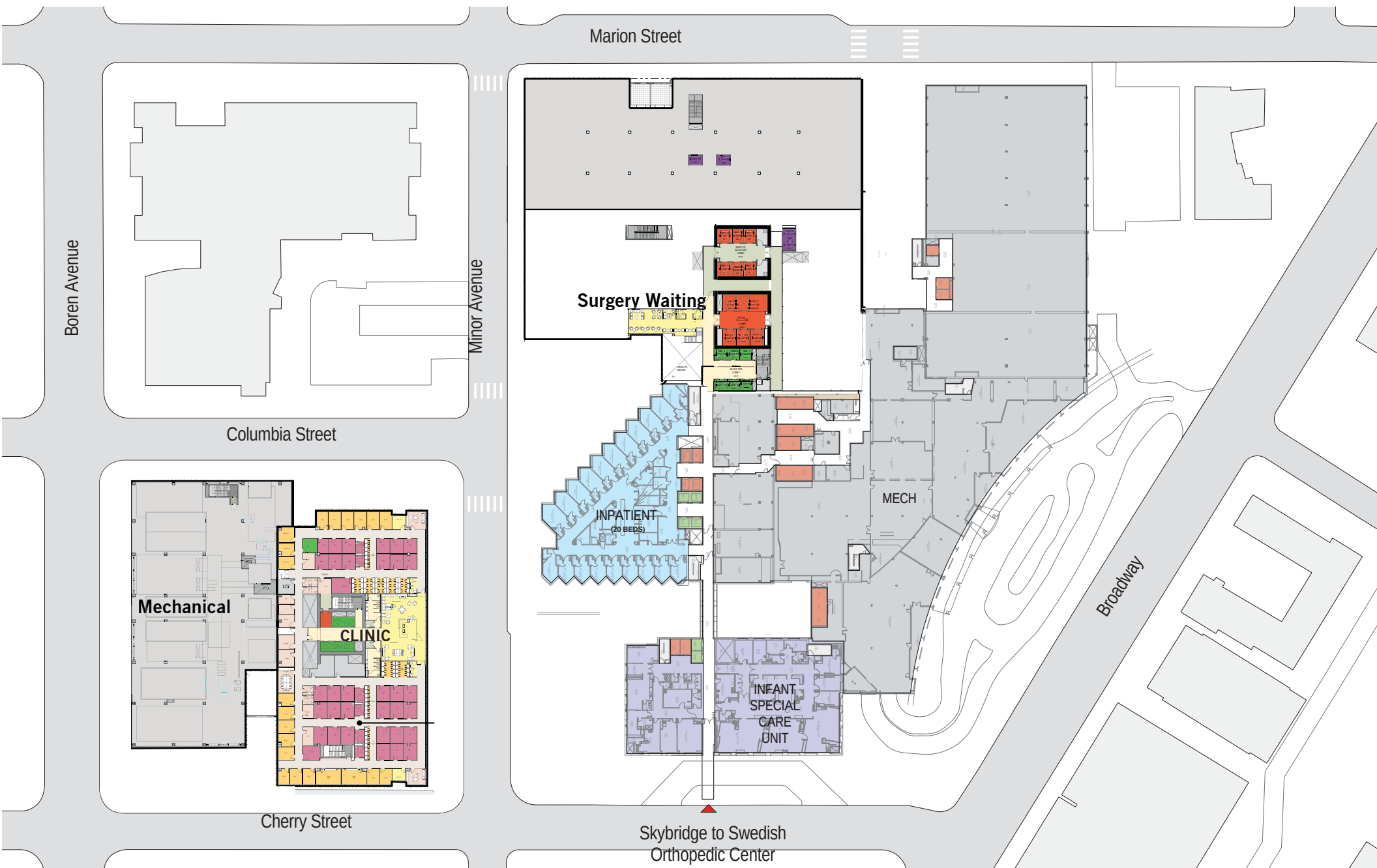
- A** Skybridge is too close to new critical care patient rooms, extra long, and above building entry and public garden
- B** Skybridge displaces entire Patient Care Unit, which is very expensive and premium space
- C** Grade requires skybridge to move up to level 03, displacing an Infant Care Unit, and creating a longer travel route between destinations, see level 03 plan

* Preferred location connects directly to main circulation routes and provide a clear sense of wayfinding

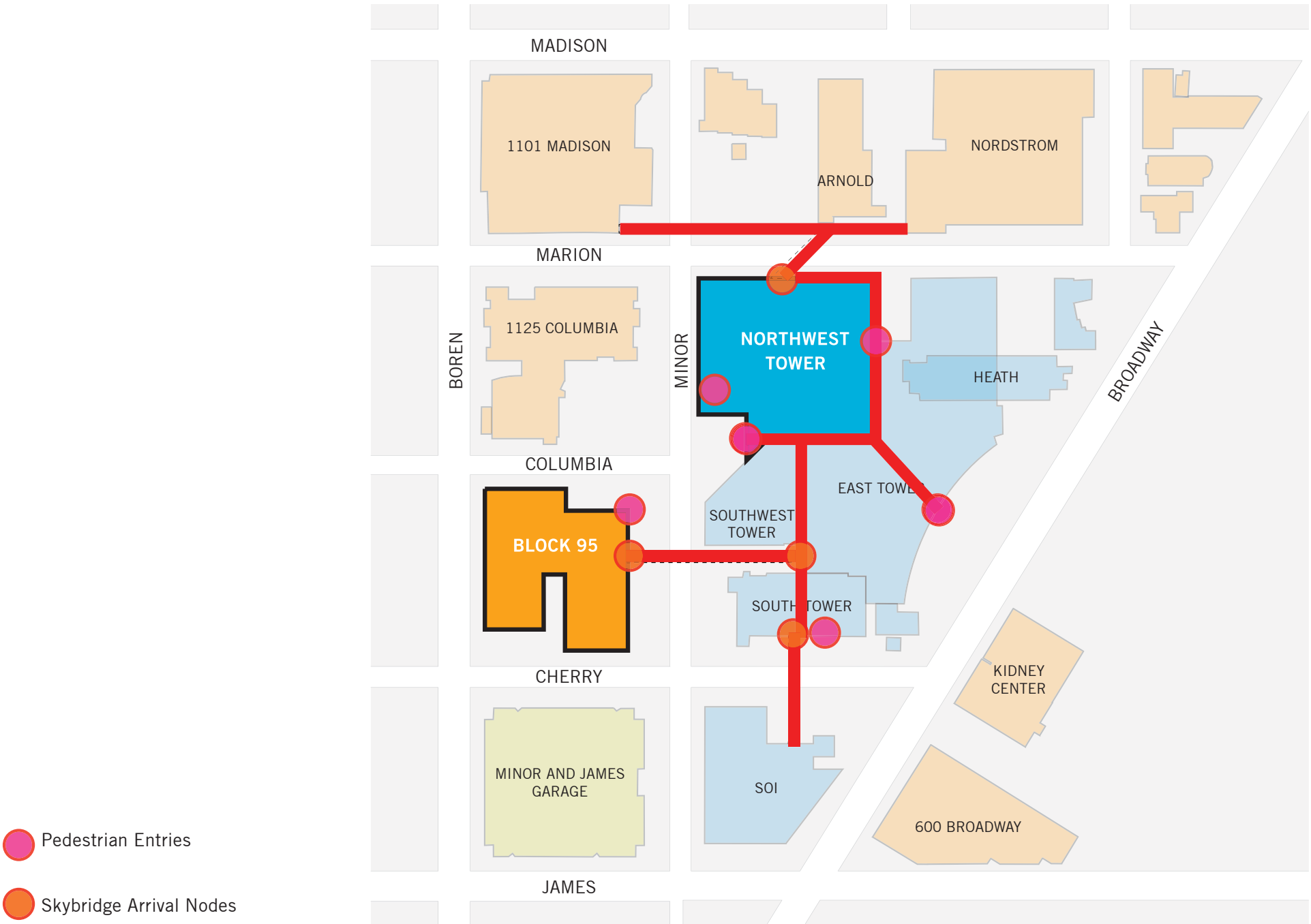
LEVEL 02 PLAN



LEVEL 03 PLAN



SKYBRIDGE WAYFINDING // LINKS AND NODES



EXISTING CONDITIONS AND REQUIREMENTS

EXISTING CONDITIONS

MINOR AVENUE



EXISTING SITE PHOTOS

MINOR AVENUE



Existing Structure

Existing Structure

Minor Avenue Elevation *East*



Minor Avenue Elevation *West*

SKYBRIDGE LOCATION

MINOR AVENUE



MINOR SKYBRIDGE - CODE REQUIREMENTS

Minor Avenue is a non-arterial street.

Minor Avenue is not a major truck route or freight corridor.

Bridge clearance requirements:

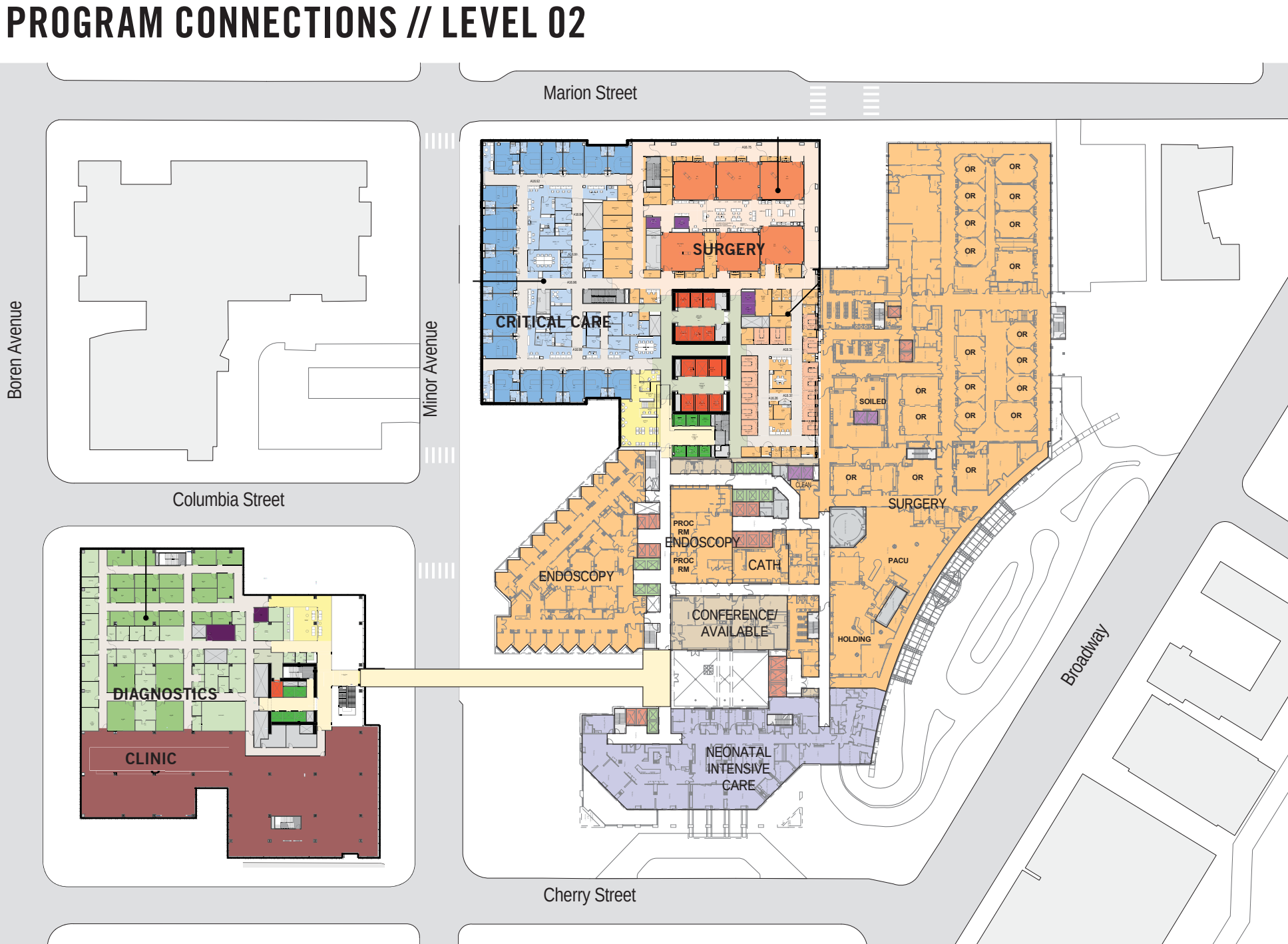
16.5 feet required from roadway surface to bottom of bridge.

Bridge will accommodate the largest truck serving the hospital, a WB-67 which has a standard height of 13'-6".

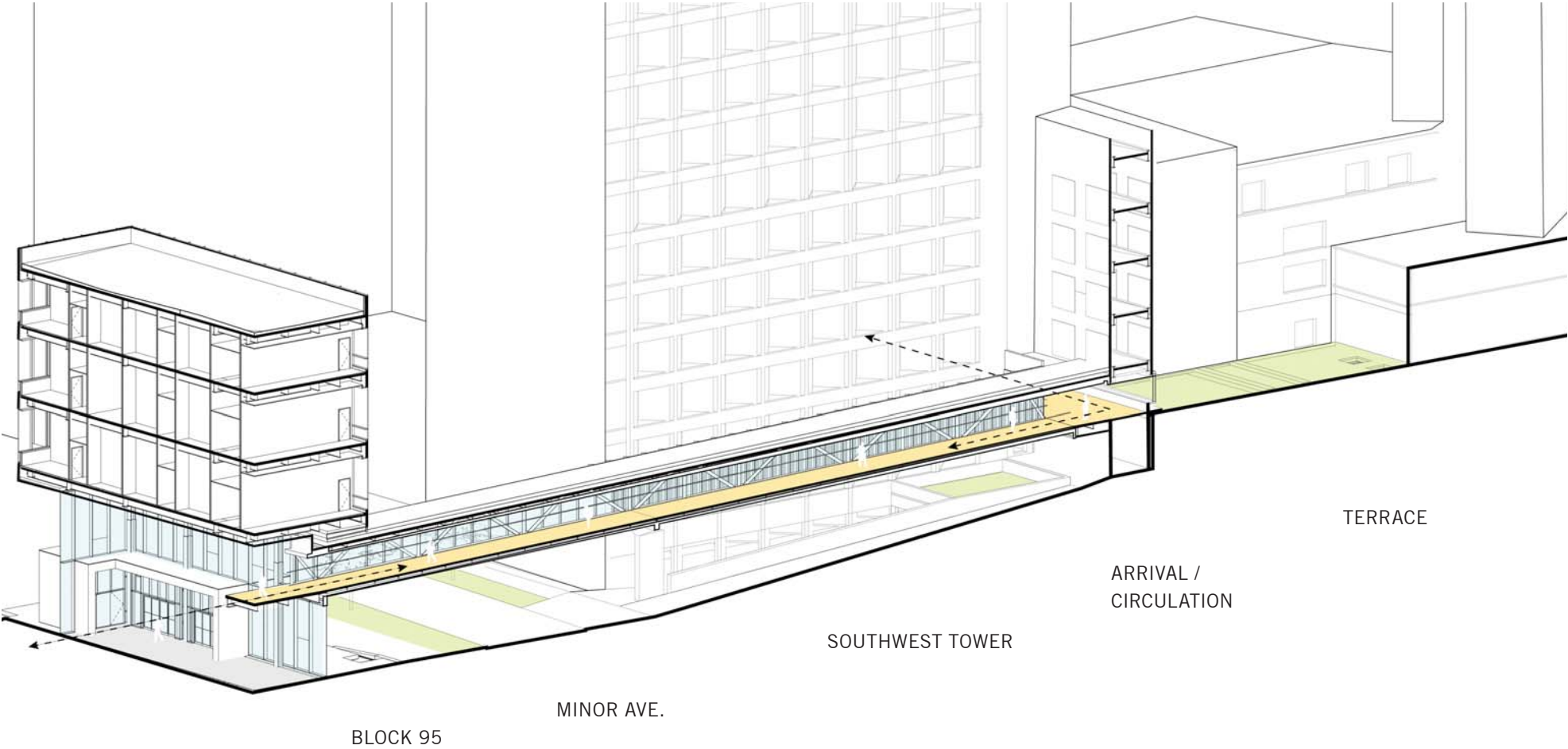
Bridge will accommodate the largest fire truck serving the hospital, a Duplex QS-100 which requires a vertical clearance of 11'-6".

SKYBRIDGE DESIGN

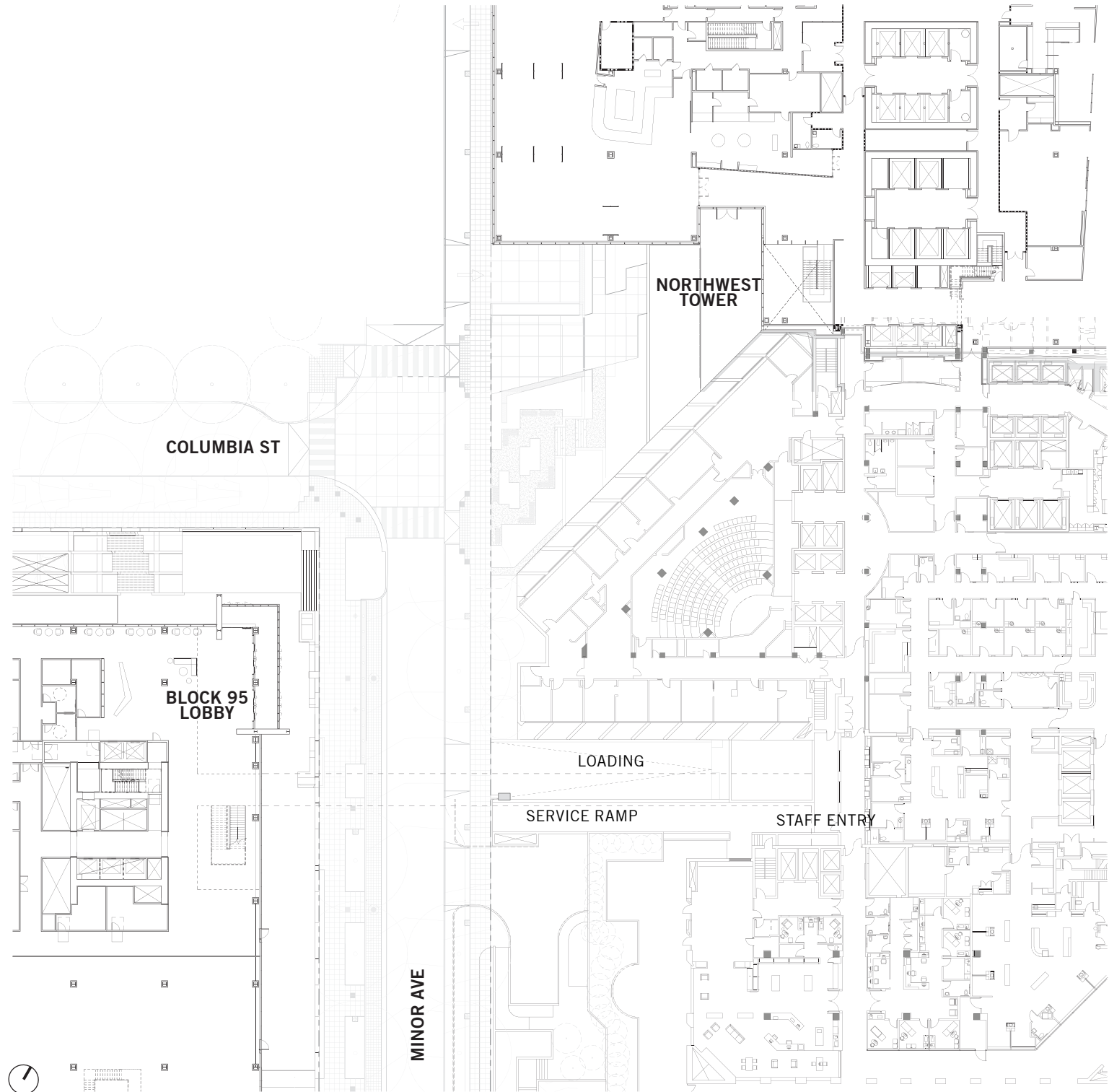
PROGRAM CONNECTIONS // LEVEL 02



CAMPUS CONNECTIONS

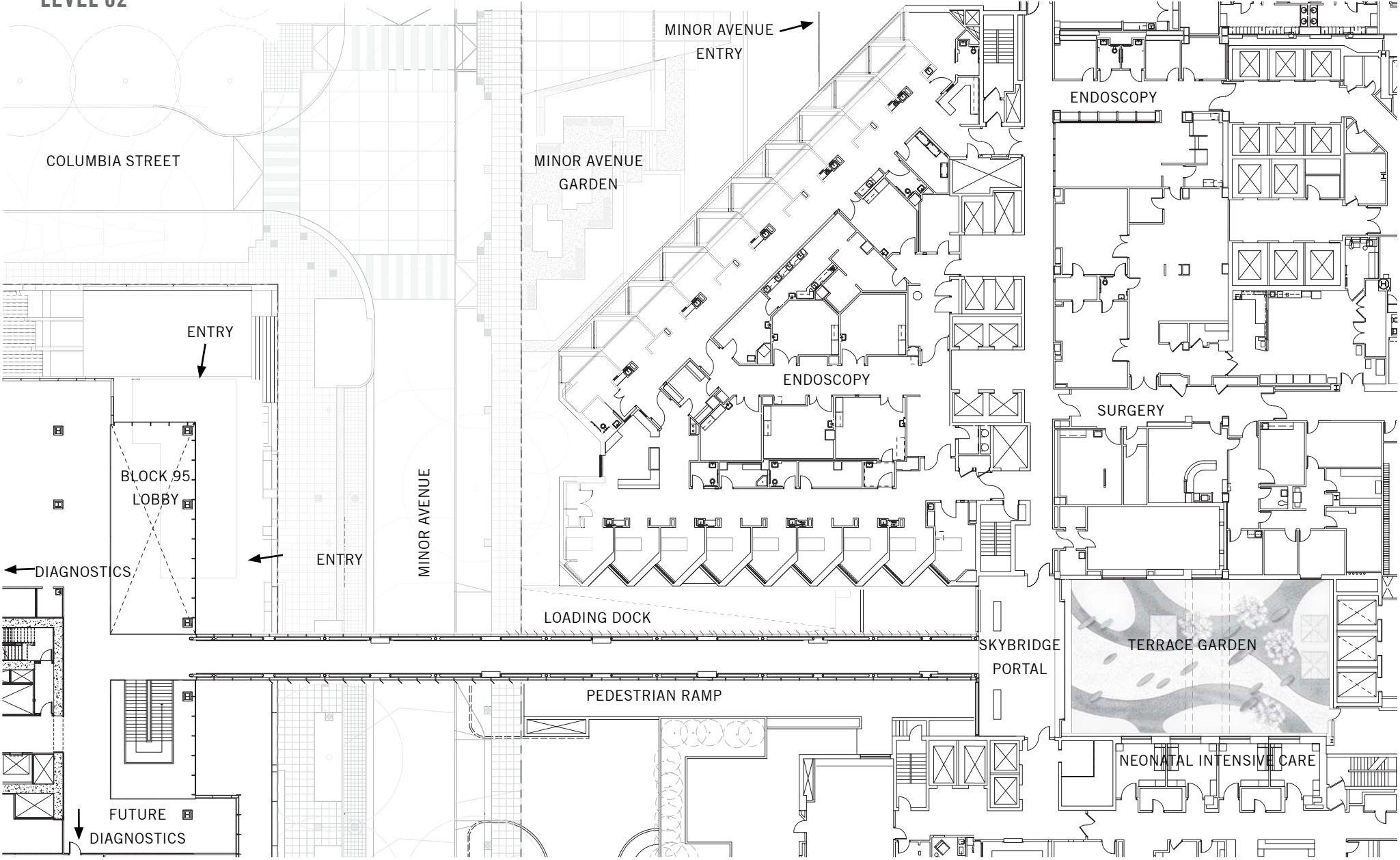


SITE PLAN
BELOW SKYBRIDGE



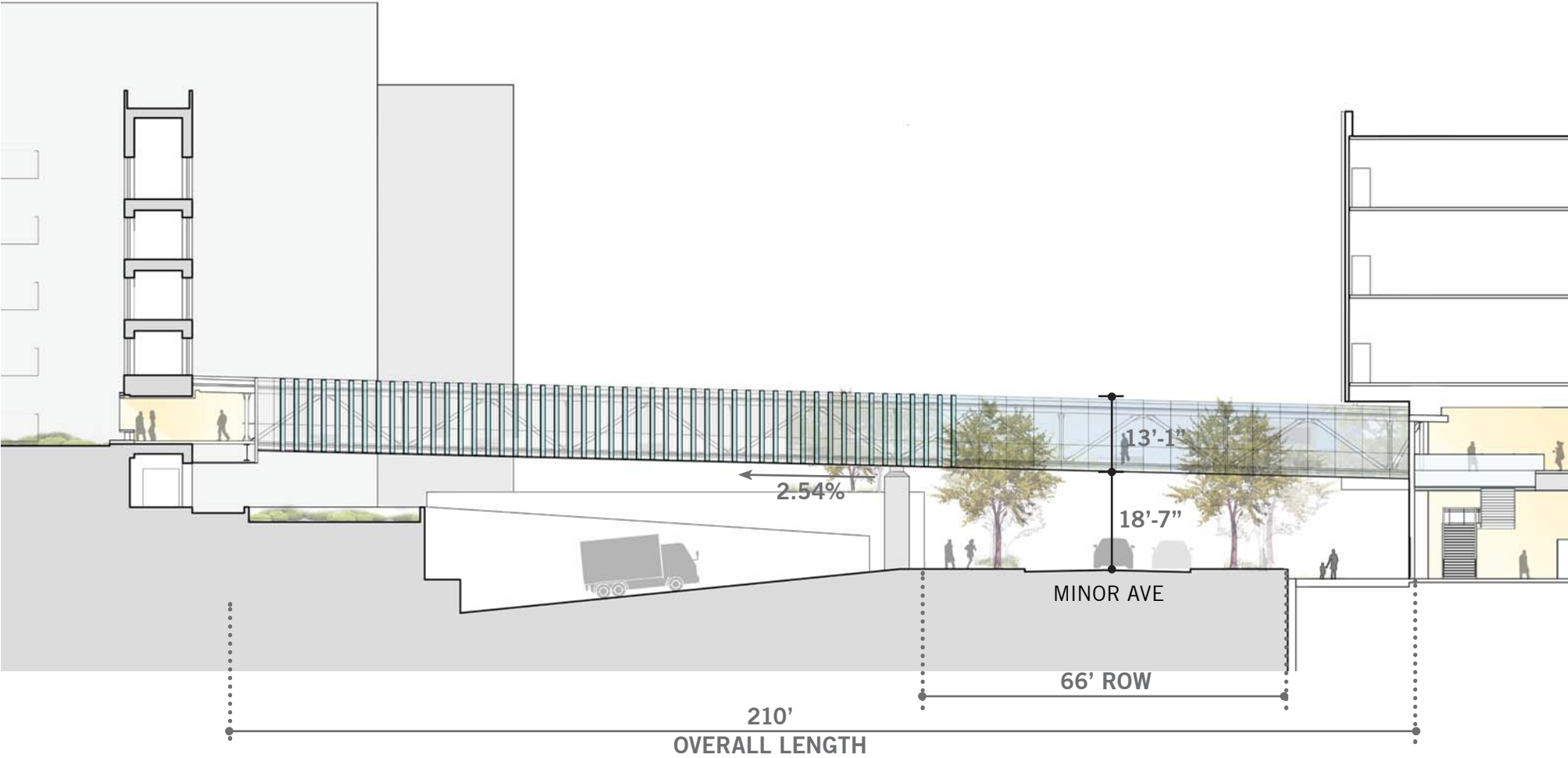
SKYBRIDGE PLAN

LEVEL 02



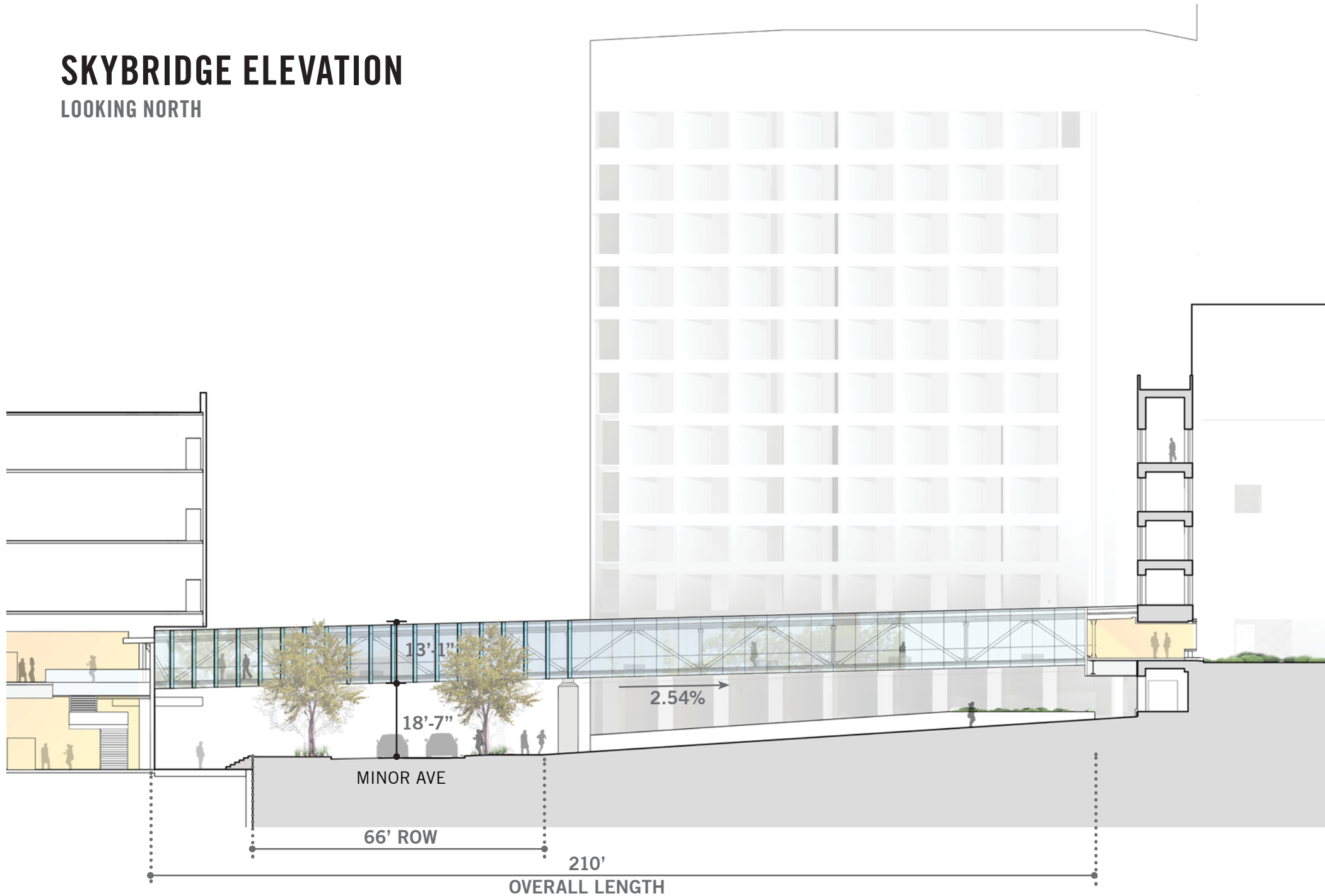
SKYBRIDGE ELEVATION

LOOKING SOUTH



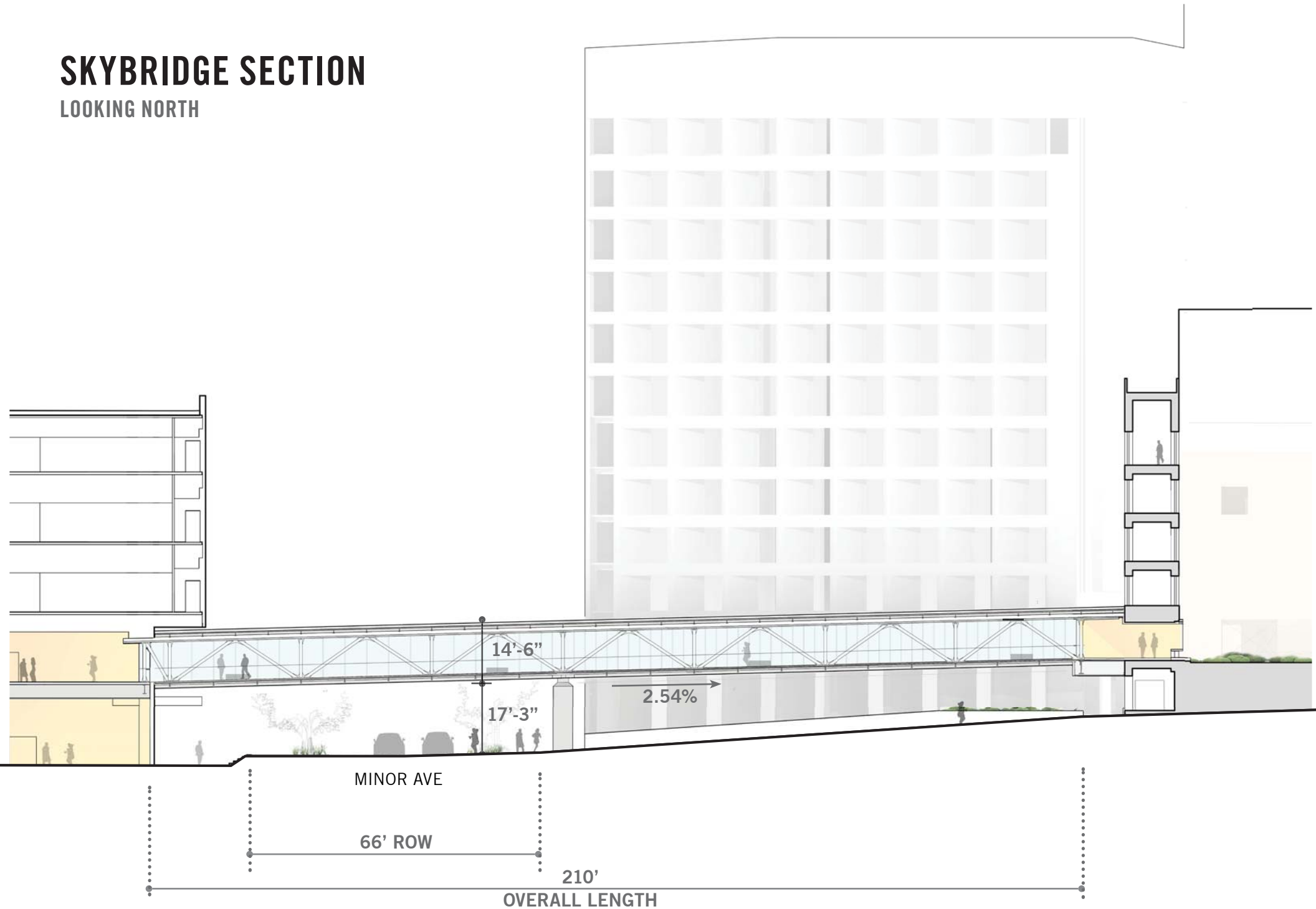
SKYBRIDGE ELEVATION

LOOKING NORTH



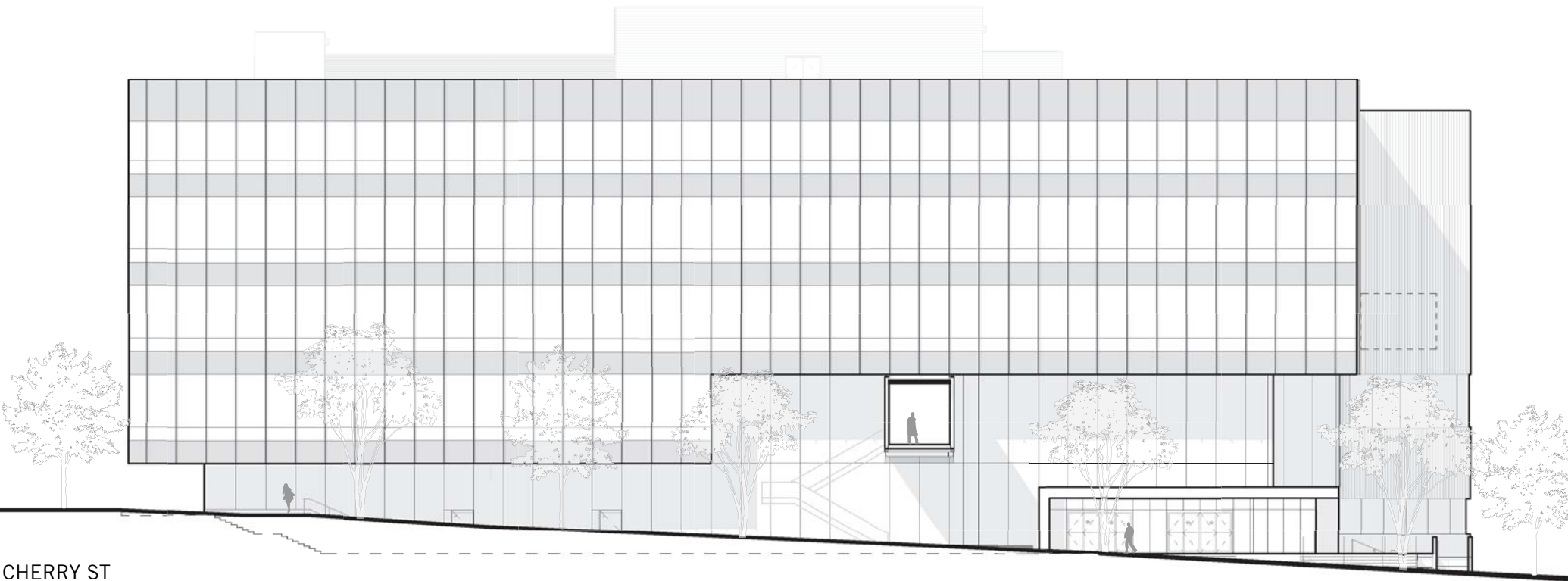
SKYBRIDGE SECTION

LOOKING NORTH



SKYBRIDGE SECTION

LOOKING WEST

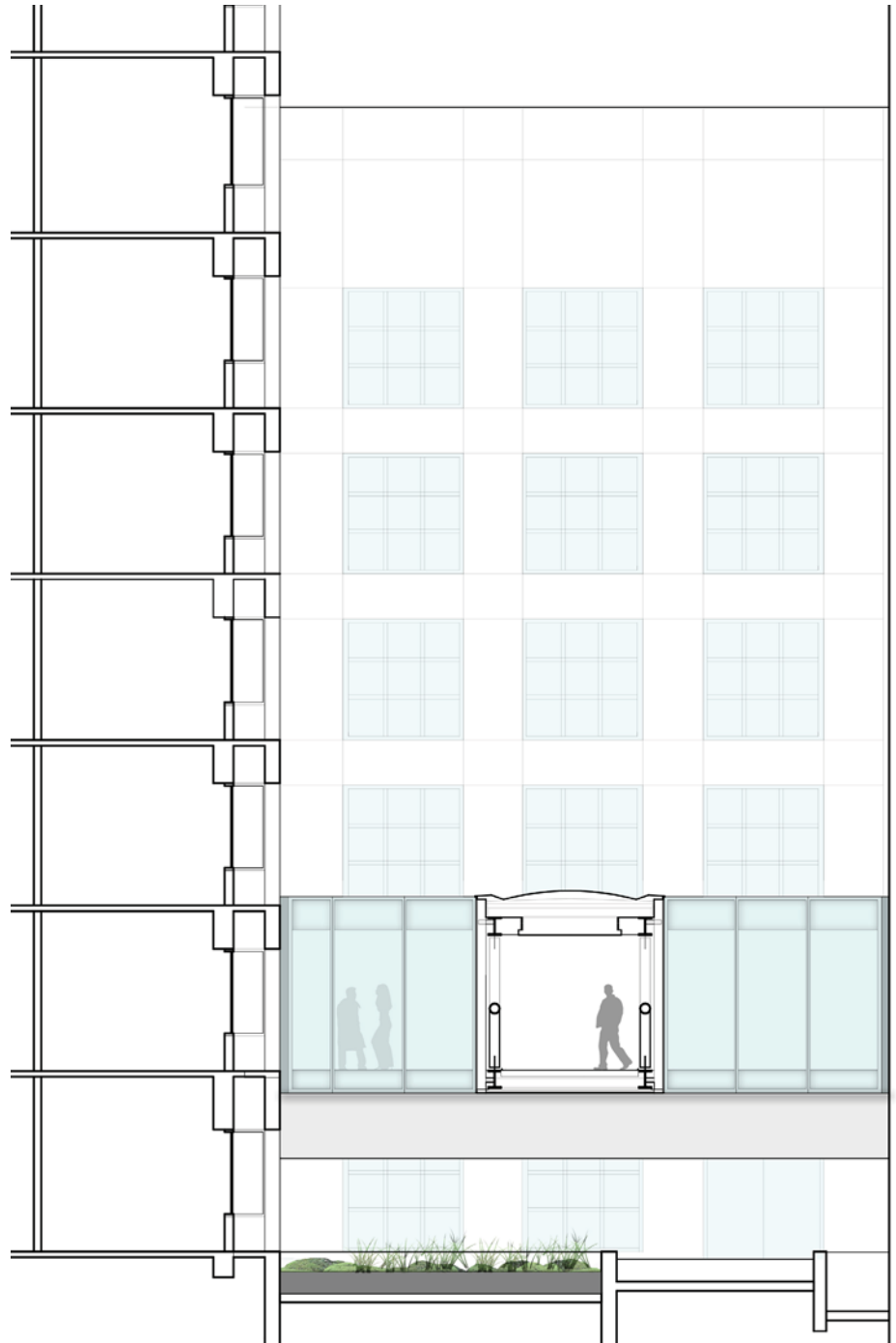


CHERRY ST

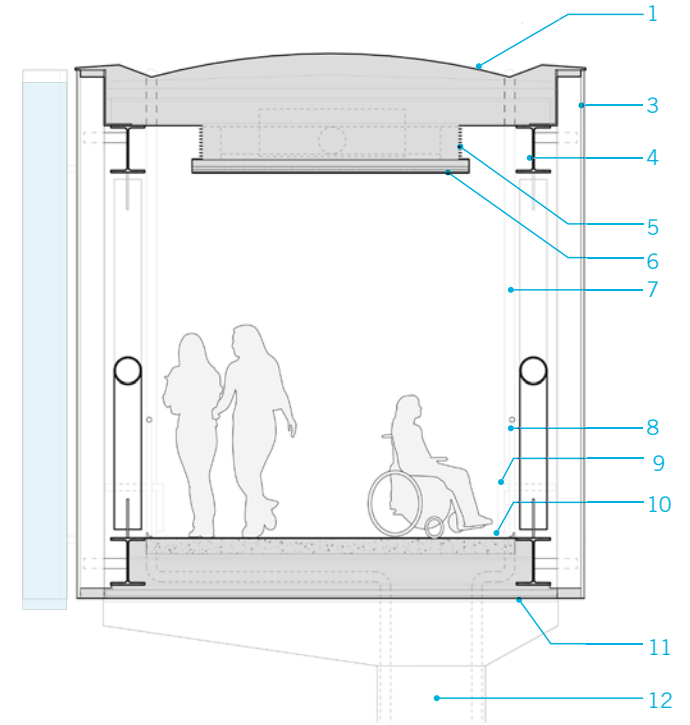
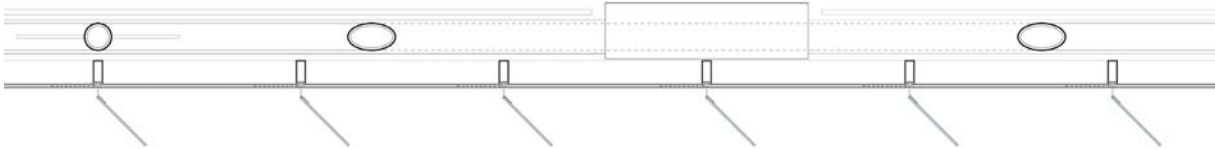
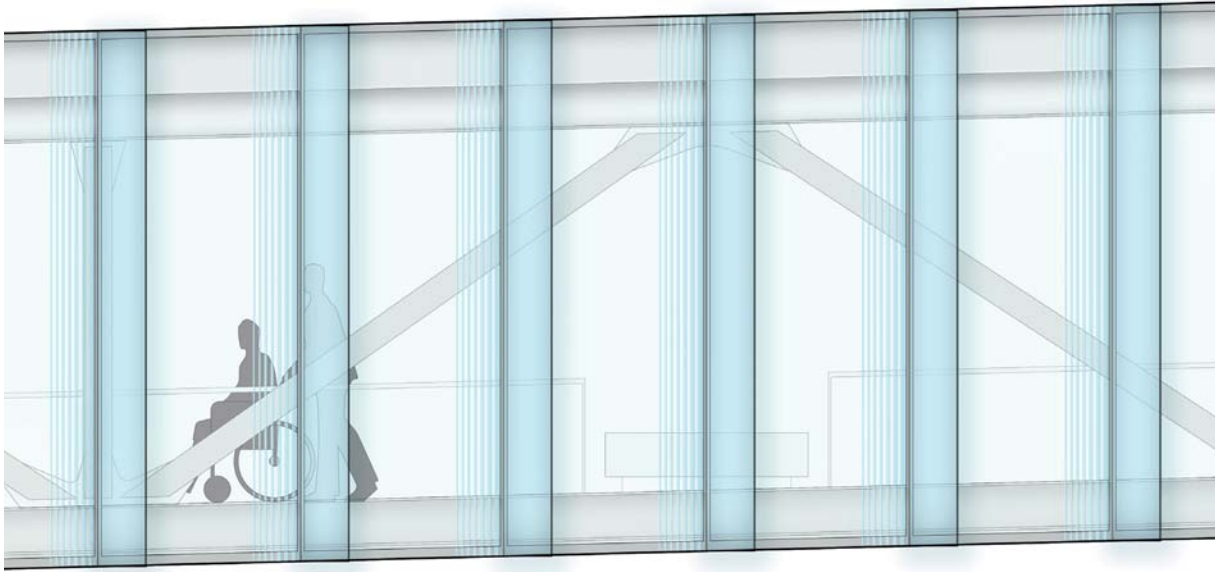
COLUMBIA ST

SKYBRIDGE ARRIVAL

AT EXISTING HOSPITAL

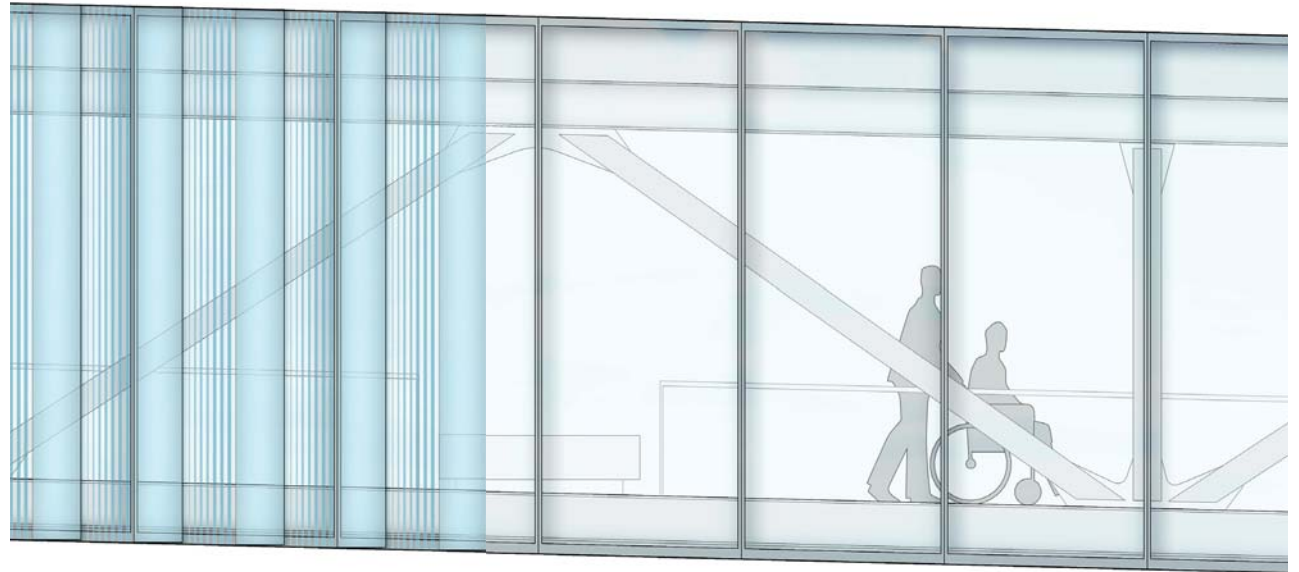
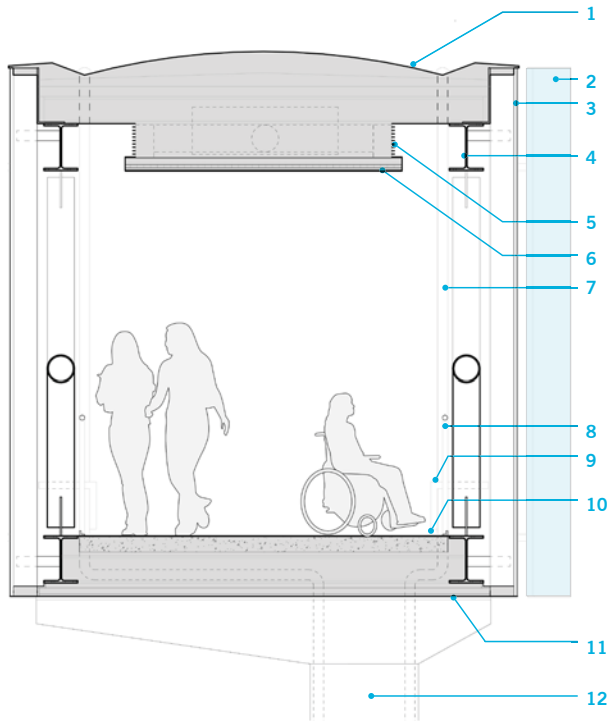


DETAIL SECTION / ENLARGED SOUTH ELEVATION

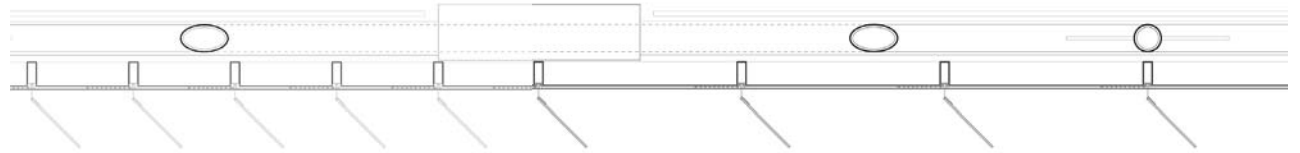


- 1 Metal Roof
- 2 Glass Fin
- 3 SSG Curtain Wall
- 4 Steel Truss
- 5 Mechanical Grill
- 6 Ceiling
- 7 Drain Beyond
- 8 Handrail
- 9 Bench
- 10 Terrazzo Floor
- 11 Luminous Soffit
- 12 Concrete Column

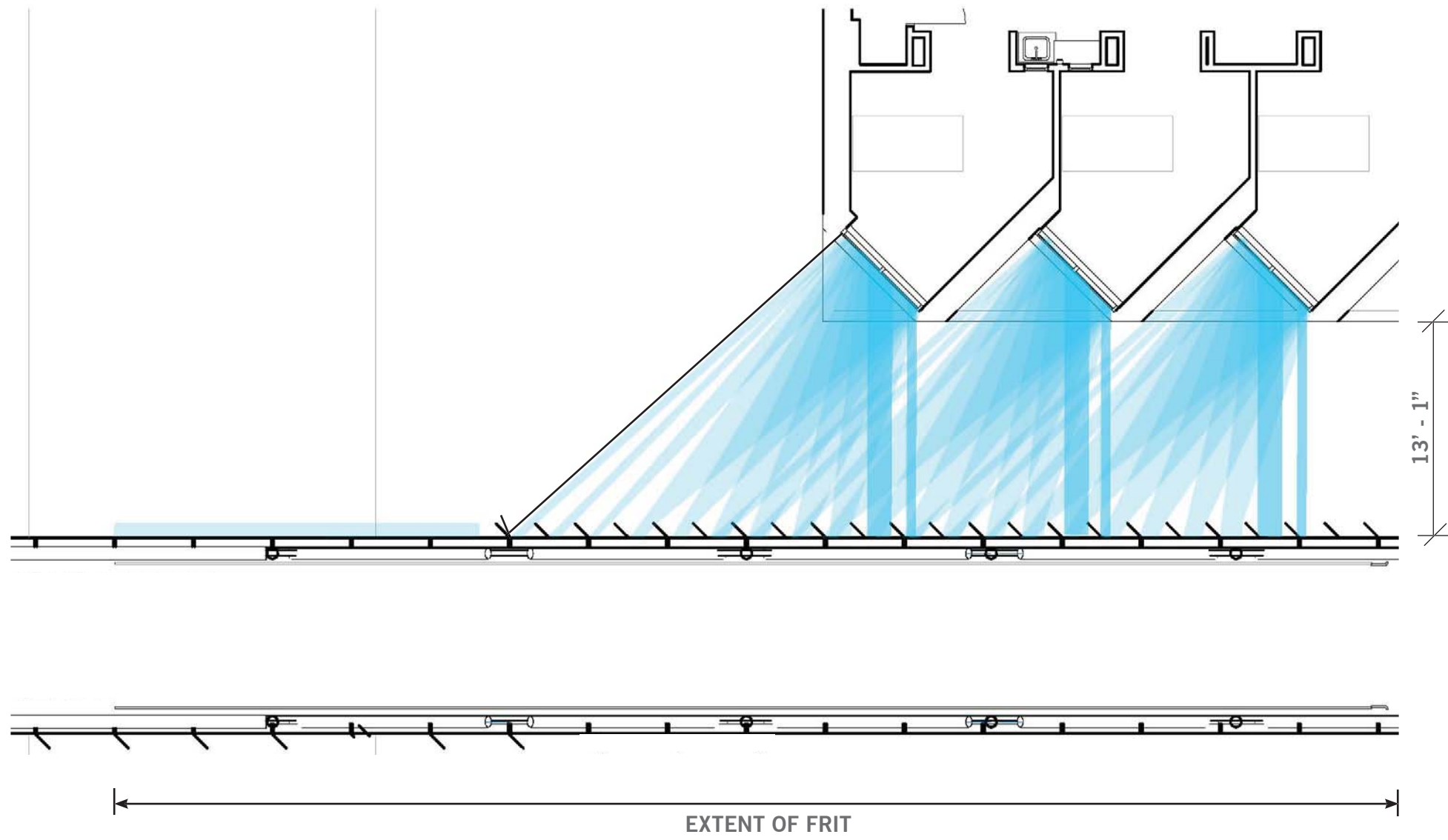
DETAIL SECTION / ENLARGED NORTH ELEVATION



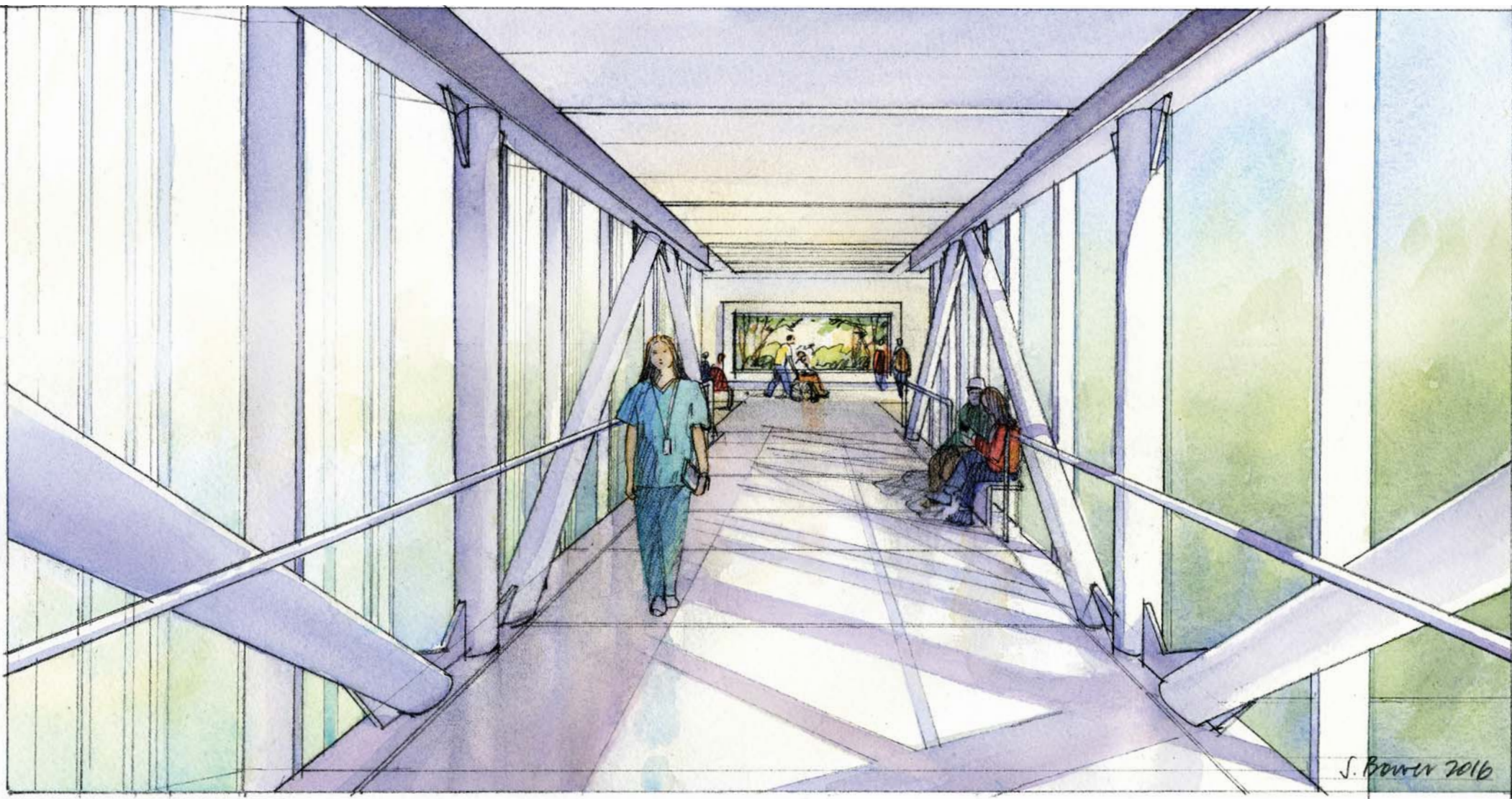
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BRIDGE VIEW STUDY



ON SKYBRIDGE // LOOKING EAST



SKYBRIDGE ARRIVAL // TERRACE PRECEDENTS

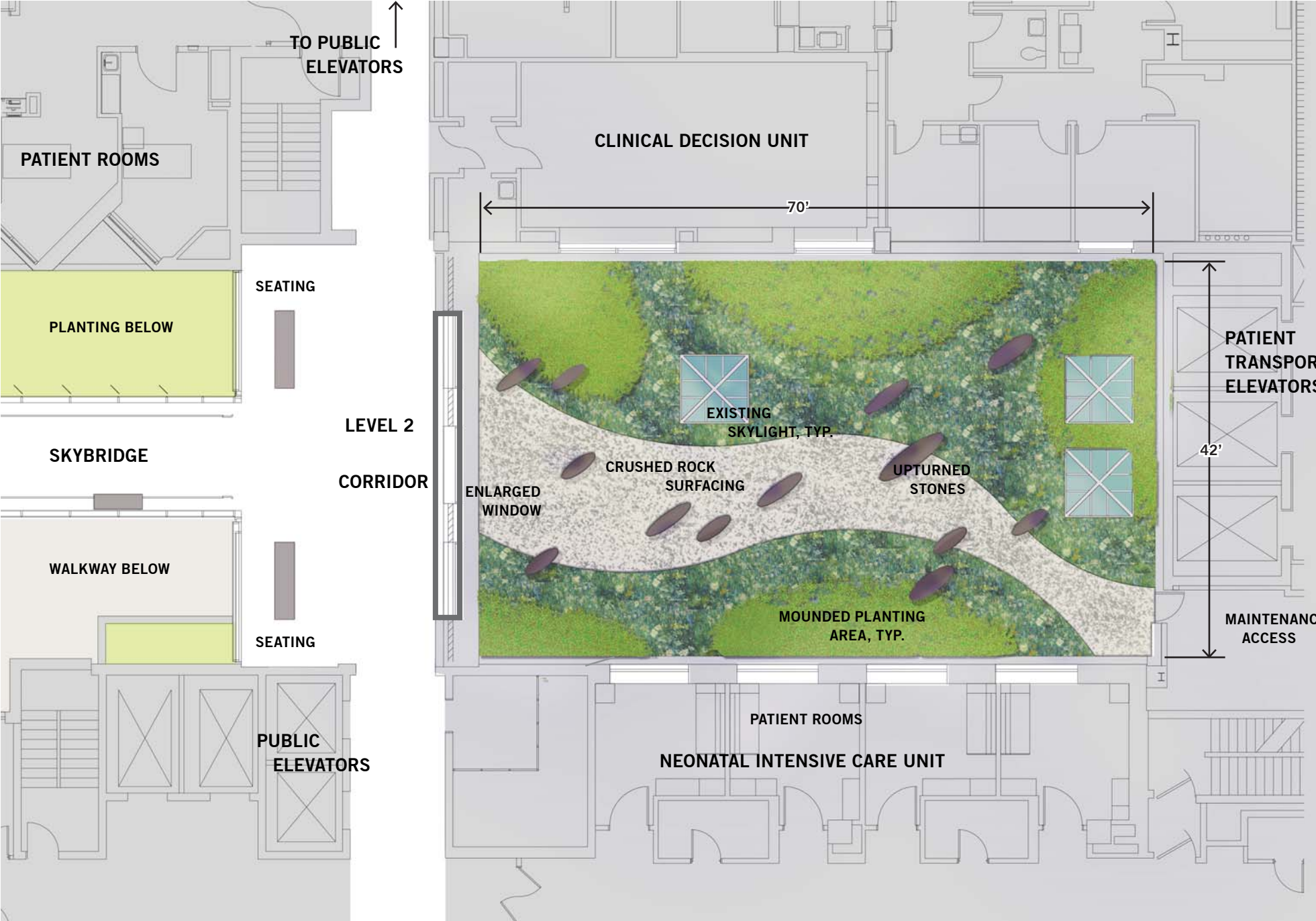


SKYBRIDGE ROOF GARDEN

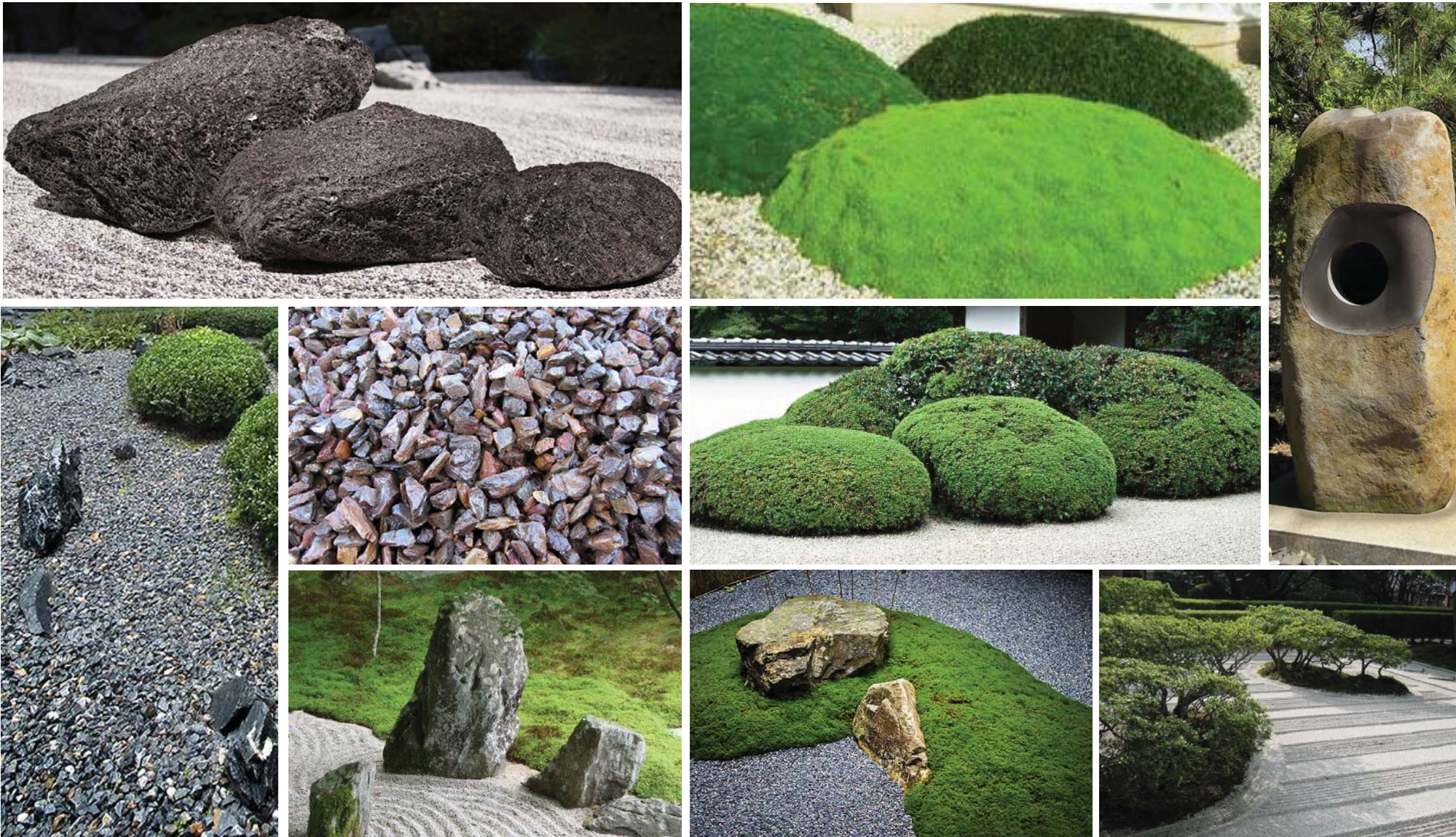
EXISTING CONDITIONS



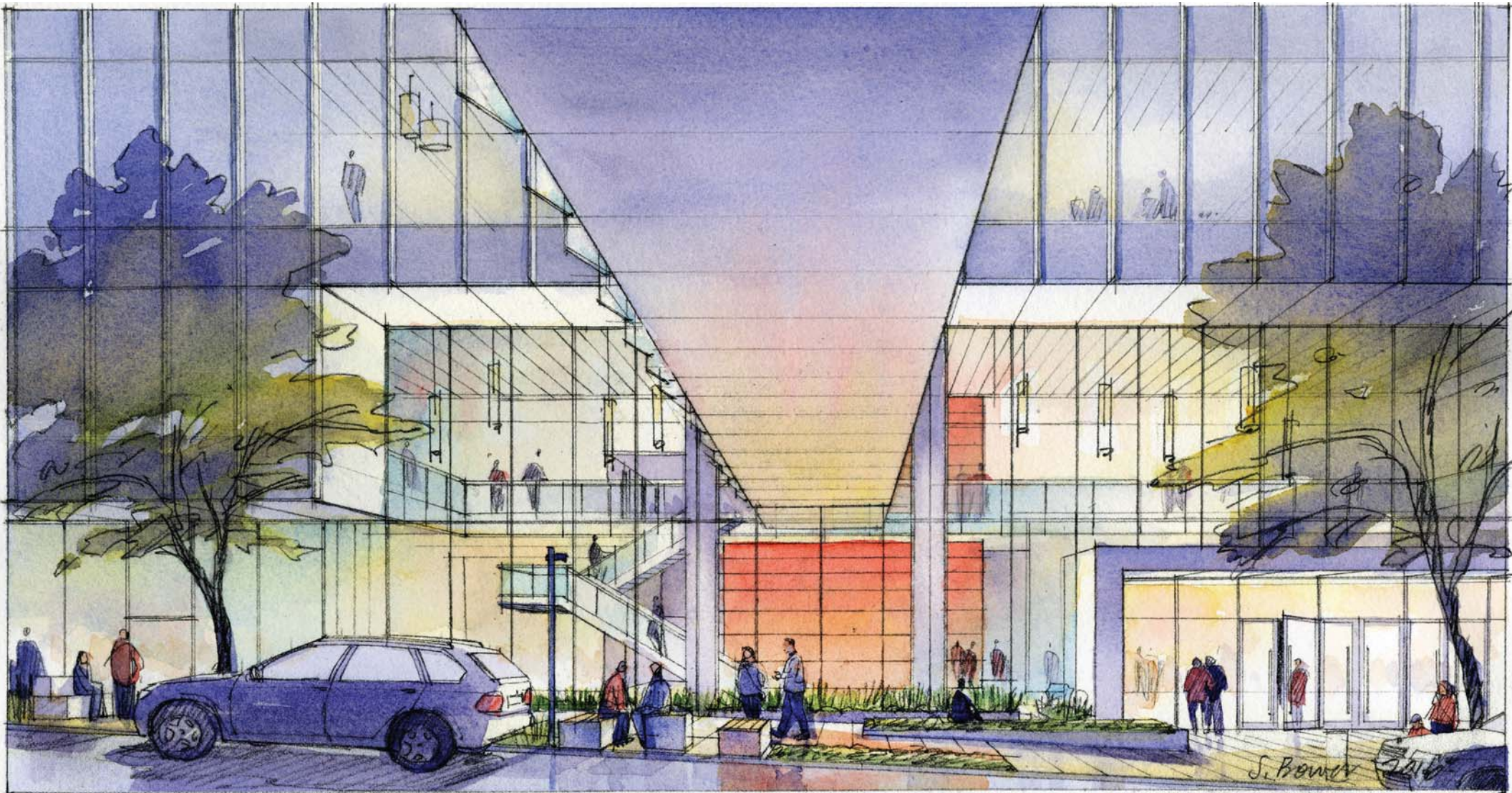
SKYBRIDGE ROOF GARDEN



SKYBRIDGE ROOF GARDEN MATERIALS



BELOW SKYBRIDGE // ON MINOR



LOOKING SOUTH ON MINOR AVENUE



PUBLIC BENEFITS

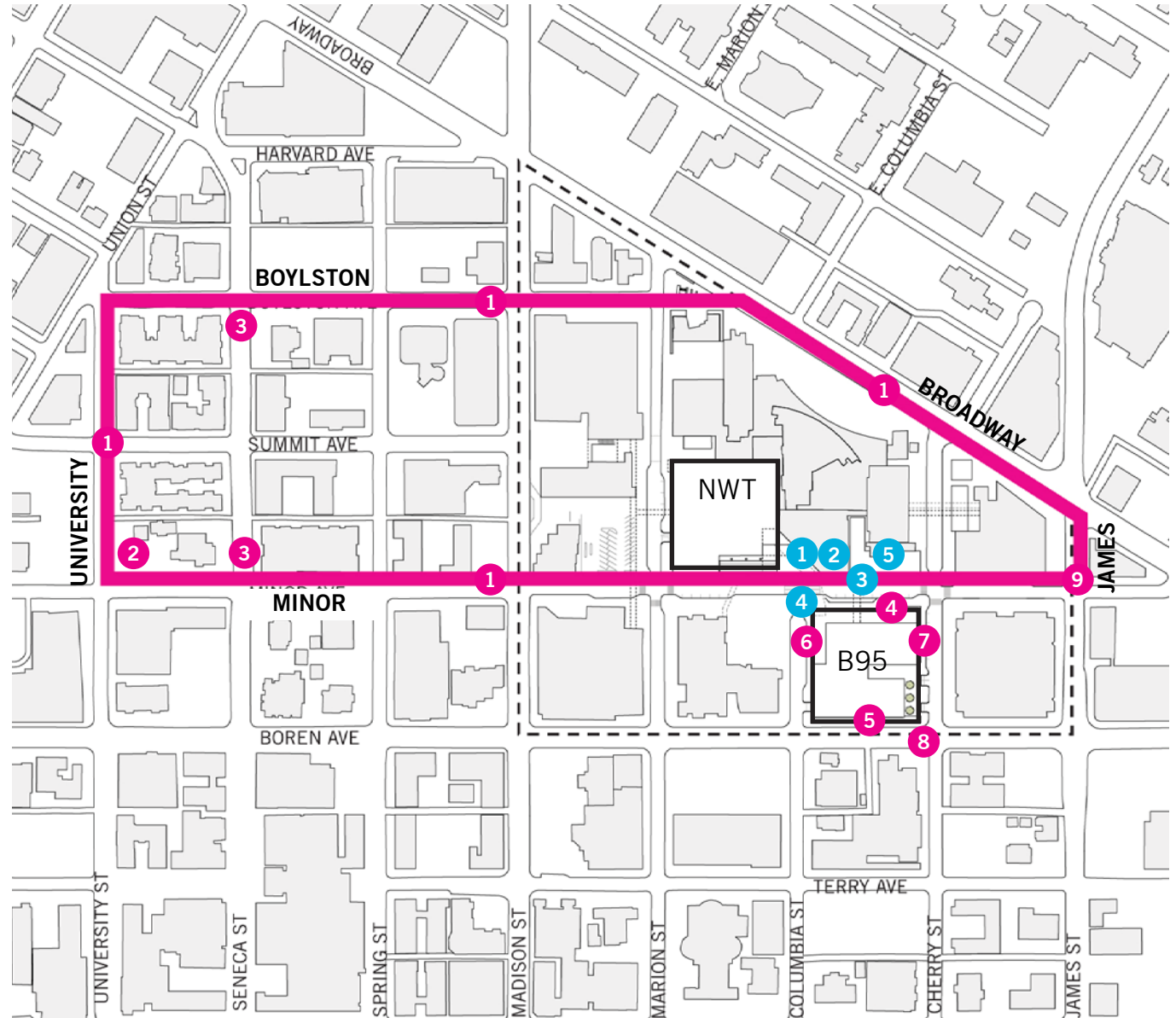
PUBLIC BENEFITS SUMMARY

MINOR AVE SKYBRIDGE

- 1 Minor Ave Garden
- 2 Public Art - Minor Ave Garden
- 3 Public Art - Skybridge
- 4 Minor & Columbia Raised Intersection
- 5 Minor Ave ROW Enhancements

BLOCK 95 ALLEY VACATION

- 1 The First Hill Mile
- 2 First Hill Park Funding
- 3 Public Art
- 4 Minor Ave Voluntary Setback
- 5 Boren Voluntary Setback
- 6 Columbia St ROW Enhancements
- 7 Cherry St ROW Enhancements
- 8 Boren & Cherry Ped Crossing
- 9 Minor & James Ped Crossing

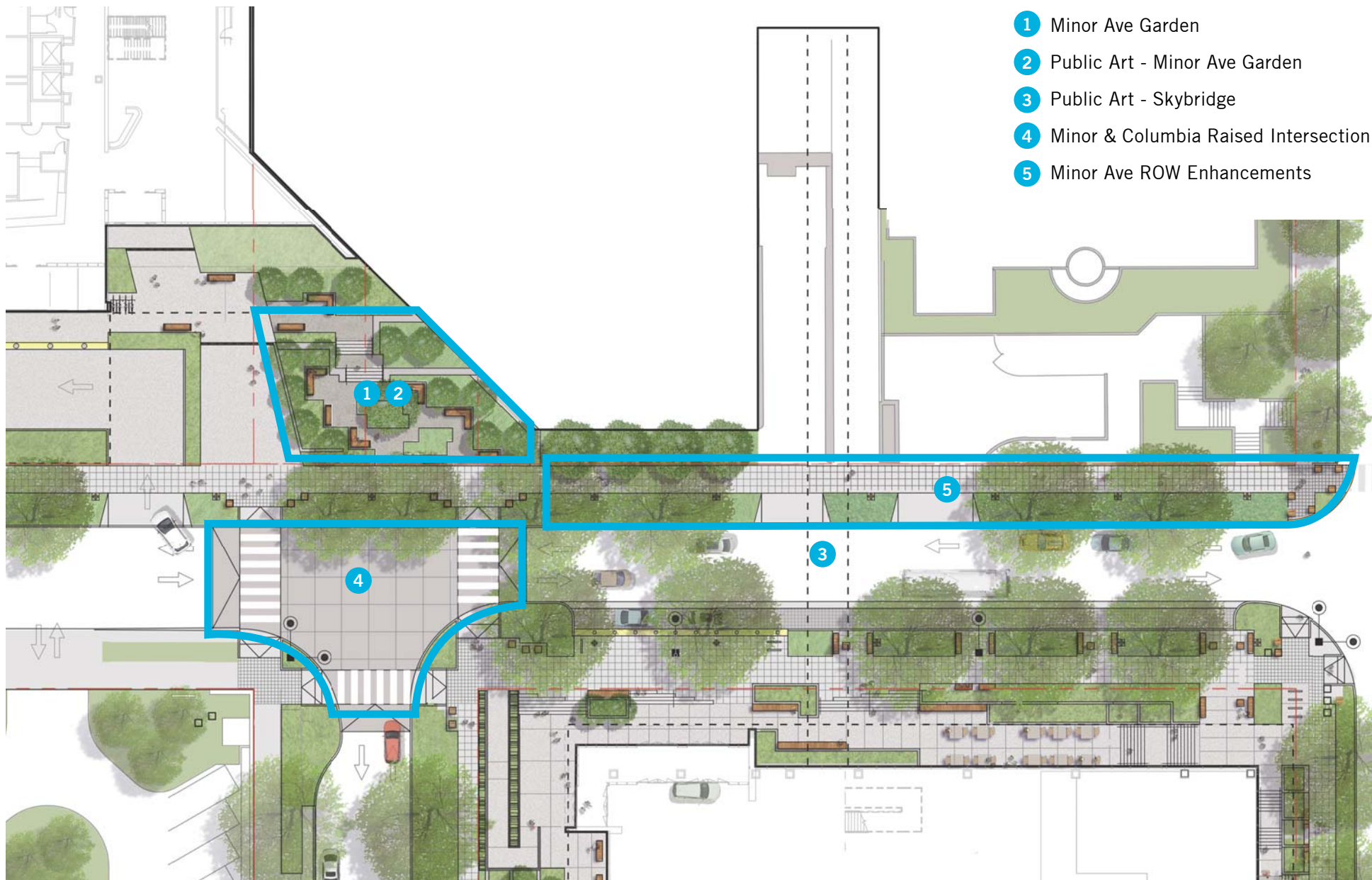


PUBLIC BENEFITS SUMMARY

COLOR, BRIDGE

MINOR AVE SKYBRIDGE

- 1 Minor Ave Garden
- 2 Public Art - Minor Ave Garden
- 3 Public Art - Skybridge
- 4 Minor & Columbia Raised Intersection
- 5 Minor Ave ROW Enhancements



PUBLIC BENEFITS MATRIX

PUBLIC BENEFIT	DESCRIPTION	QUANTITY (APPROX)	CODE REQ'D	MIMP REQ'D
1 - Minor Ave Garden	<i>3,200 SF of publicly accessible open space directly adjacent to Minor Ave</i>	<i>3,200 SF</i>	<i>None</i>	<i>None</i>
	<i>1,500 SF of planting area</i>			
	<i>100 LF of seating elements</i>			
	<i>Landscape pedestrian lighting to 1/2 fc</i>			
	<i>8 trees</i>			
2 - Publicly Accessible Art - Minor Ave Garden	<i>Curated outdoor sculpture collection located in Minor Ave Garden</i>	<i>Budget \$150K</i>	<i>None</i>	<i>None</i>
3 - Publicly Accessible Art - Minor Skybridge	<i>Work with selected artist on significant artwork element on Minor Ave Skybridge</i>	<i>Budget \$350K</i>	<i>None</i>	<i>None</i>
4 - Minor and Columbia Intersection	<i>Intersection and sidewalk improvements to enhance pedestrian safety</i>	<i>3,400 SF</i>	<i>None</i>	<i>None</i>
5 - Minor Ave Enhanced ROW	<i>Expanded pedestrian streetscape including street paving, curb, sidewalk and curb ramps, street trees, planting and pedestrian lights</i>	<i>3,700 SF</i>	<i>None</i>	<i>None</i>

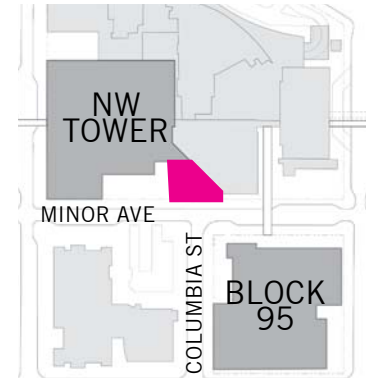
1 - MINOR AVE GARDEN

PROPOSAL

- Minor Ave Garden is located at the intersection of Columbia St and Minor Ave and takes advantage of the view west towards downtown
- The garden is universally accessible from Minor Ave and invites the public into a highly visible, safe and secure garden setting with abundant seating and curated with outdoor public art
- The planting concept for the garden will be based on medicinal plants to support wellness, healing and respite

PUBLIC BENEFIT SUMMARY

3,200 SF of Open Space



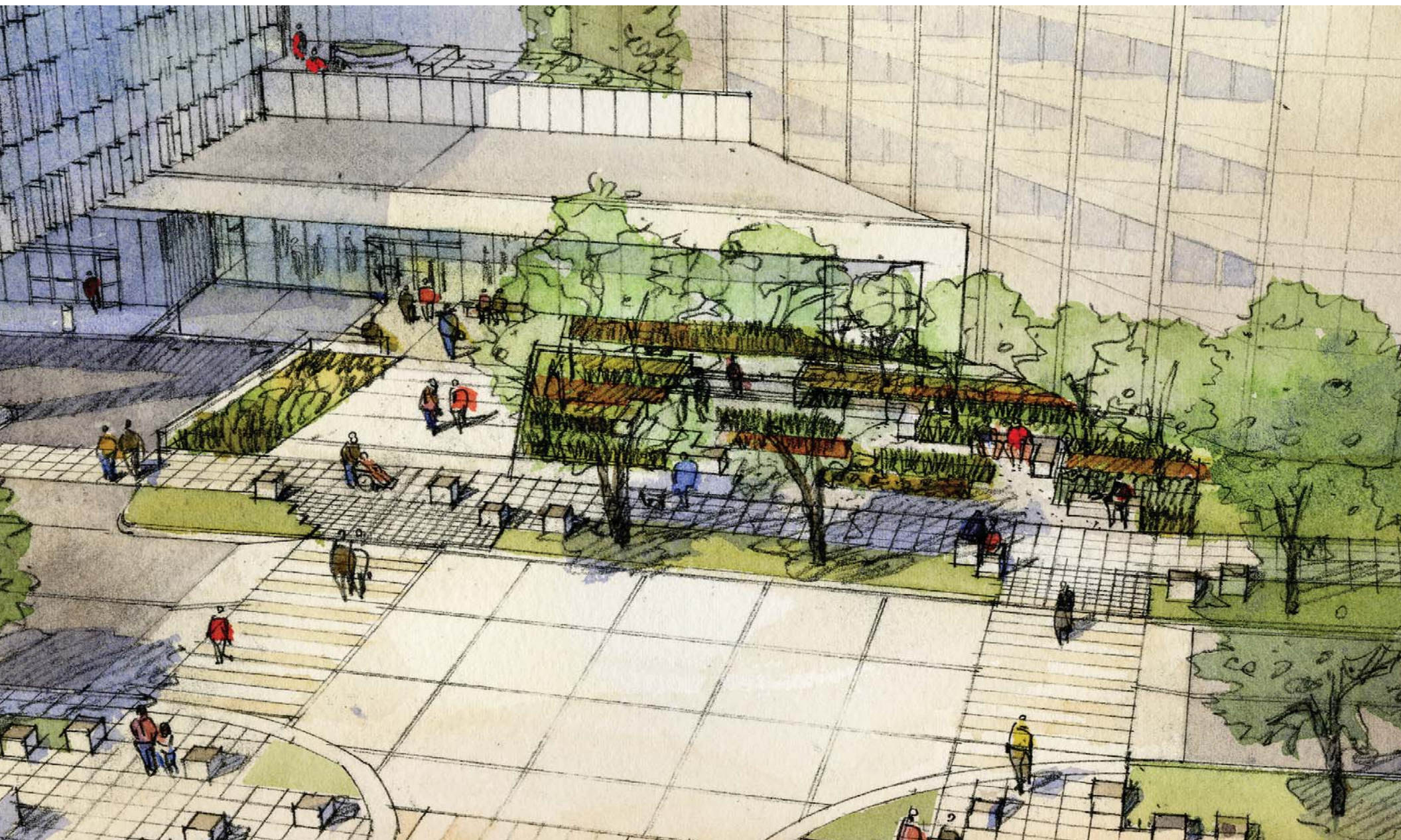
1- MINOR AVE GARDEN

SITE PLAN



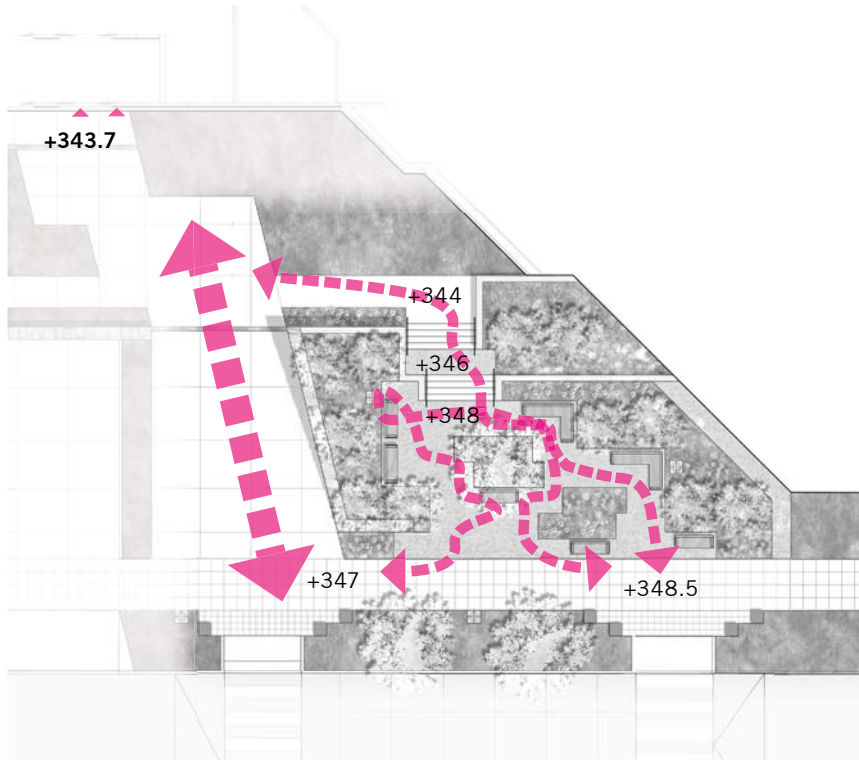
1- MINOR AVE GARDEN

RENDERING BY STEPHANIE BOWER

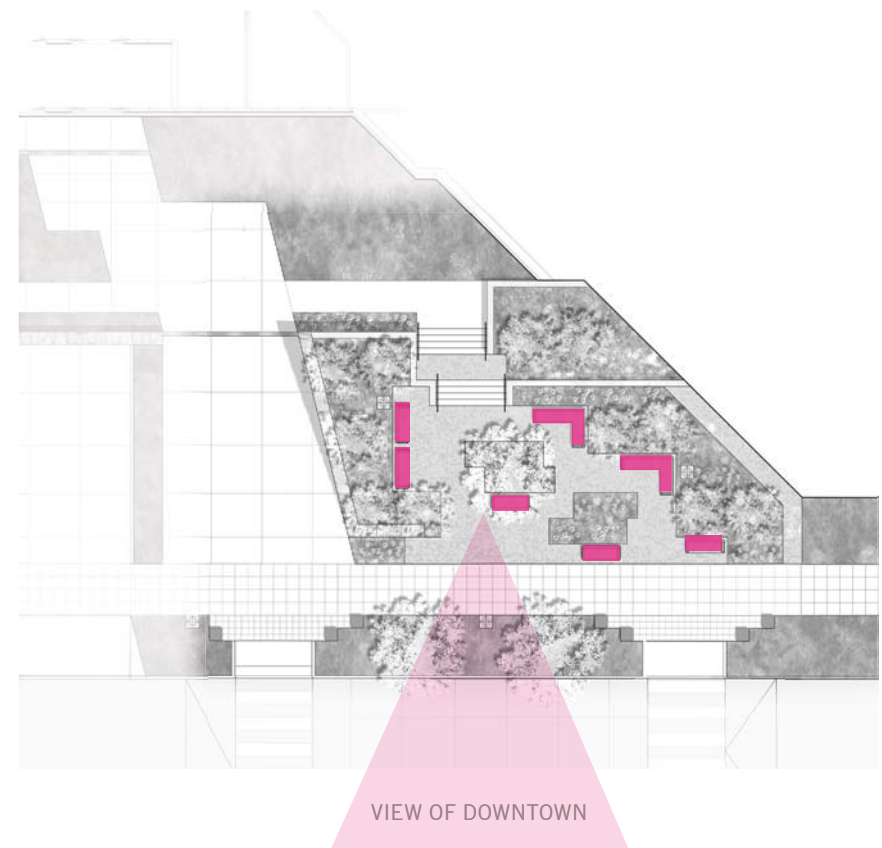
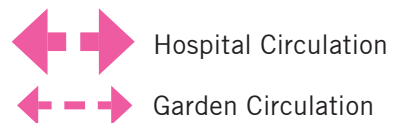


1- MINOR AVE GARDEN

IMPROVEMENTS



ENTRY AND CIRCULATION

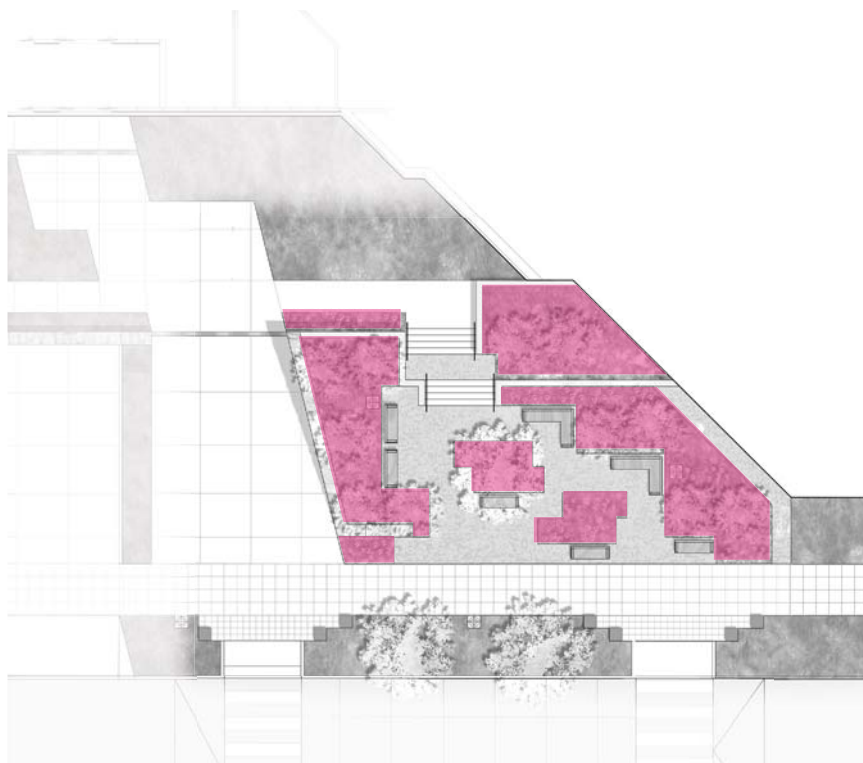


SEATING



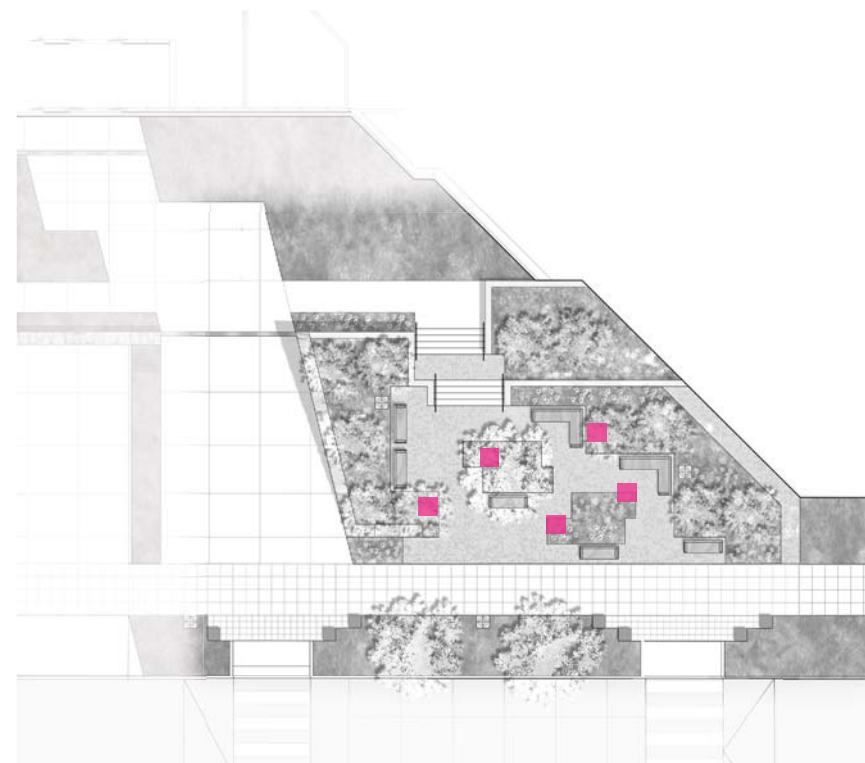
1- MINOR AVE GARDEN

IMPROVEMENTS



PLANTINGS

 Planting areas



ART

 Potential sculpture locations

1- MINOR AVE GARDEN

MATERIALS BOARD

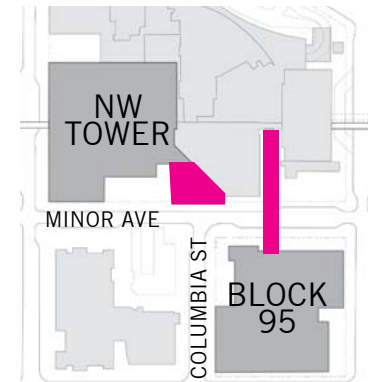


2 & 3 - PUBLIC ART

BACKGROUND

- The Swedish Public Art Program was initiated in the fall of 2015 and recently received approval by the Seattle Design Commission for the First Hill Mile art proposals (Block 95 Alley Vacation)
- The program is developed to be a transparent, thoughtful, and authentic process integrated with the City's art mandate while upholding the mission and values of Swedish's art collection
- 4Culture is engaged by Swedish to lead and manage the art program

- 2) Garden Budget: \$150k
- 3) Skybridge Budget: \$350k



CRITERIA

The Swedish Public Art Program will:

- Honor and carry forward the Swedish Art Collection, in outdoor public space
- Support wellness, healing and respite
- Connect with the First Hill neighborhood, its history and current context
- Spotlight Northwest artists

Artist selection is based on the following criteria:

- Quality and strength of past work as demonstrated in submitted application materials
- Consideration for visibility during the day and at night
- Demonstrated experience working on integrated and collaborative design team projects
- Experience with durable materials
- Availability to begin design work in 2Q 2106

THE PROPOSAL

2 & 3 - PUBLIC ART

- Swedish is proposing two separate public benefits for art
 - 1) **\$150K budget** for outdoor sculpture garden through direct purchase by Swedish of Northwest Artists' artwork to be located in Minor Ave Garden and accessible to the public
 - 2) **\$350K budget** to engage artist from the Pacific Northwest thru an invitational call to collaborate with the design team on the Minor Ave skybridge. The selection committee will be comprised of community, Swedish, design team and public artists.
- Swedish requests that the review of artist proposals and direct purchases be deferred to the Swedish Public Art Advisory Committee (SPAAC). The committee is comprised of community members, art professionals, Swedish staff, design team and **a member(s) from SDC**.
- Artist proposals will address all submittal requirements noted in the **SDC art policy documents**
- The **SDC member(s) will report back to SDC, SDOT Street vacations manager and SDCI** land use planner to confirm review and approval of the art concept plans per the requirements noted above



EXAMPLE: Beliz Brother, *Bridge*, 2008, Harborview Medical Center



EXAMPLE: Julie Speidel, *Articulation*, 2007, Swedish Orthopedic Institute

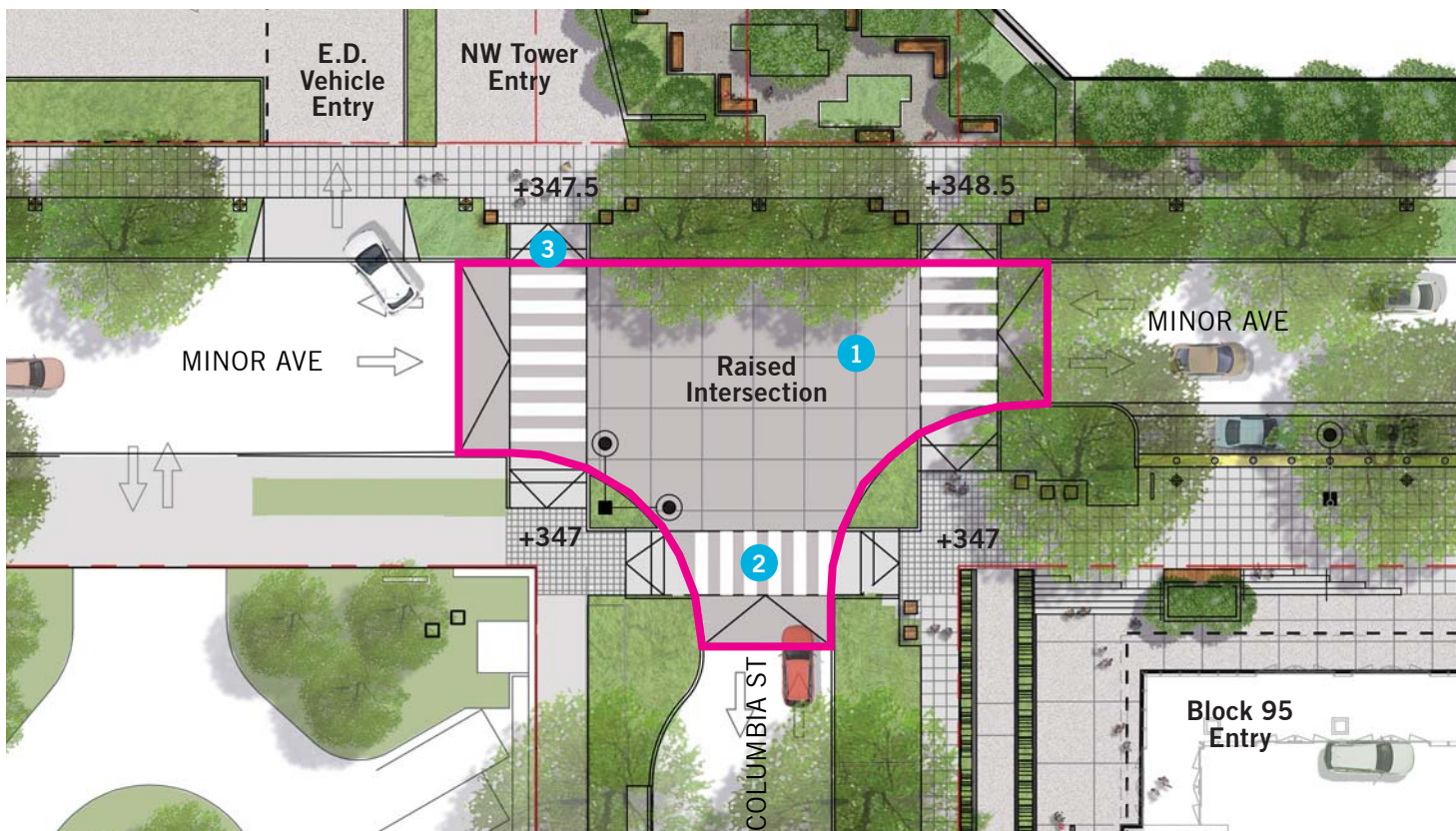
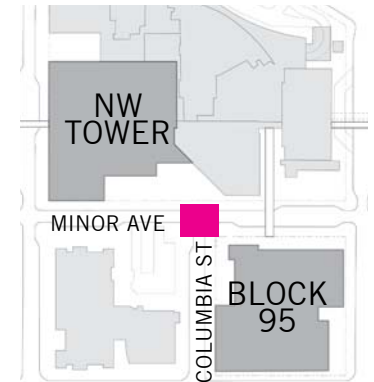
4 - MINOR & COLUMBIA RAISED INTERSECTION

PROPOSAL

- A partially raised intersection at Columbia St and Minor Ave
- The intersection was approved by SDOT SIP project manager (working with traffic operations, accessibility and urban design staff) to move to 60% design
- The intersection will be constructed of concrete raised 3" above street level with the remaining 3" handled with a pedestrian curb ramp. Standard finishes and crosswalk striping will be as approved by SDOT thru the SIP process

PUBLIC BENEFIT SUMMARY

3,400 SF of concrete intersection

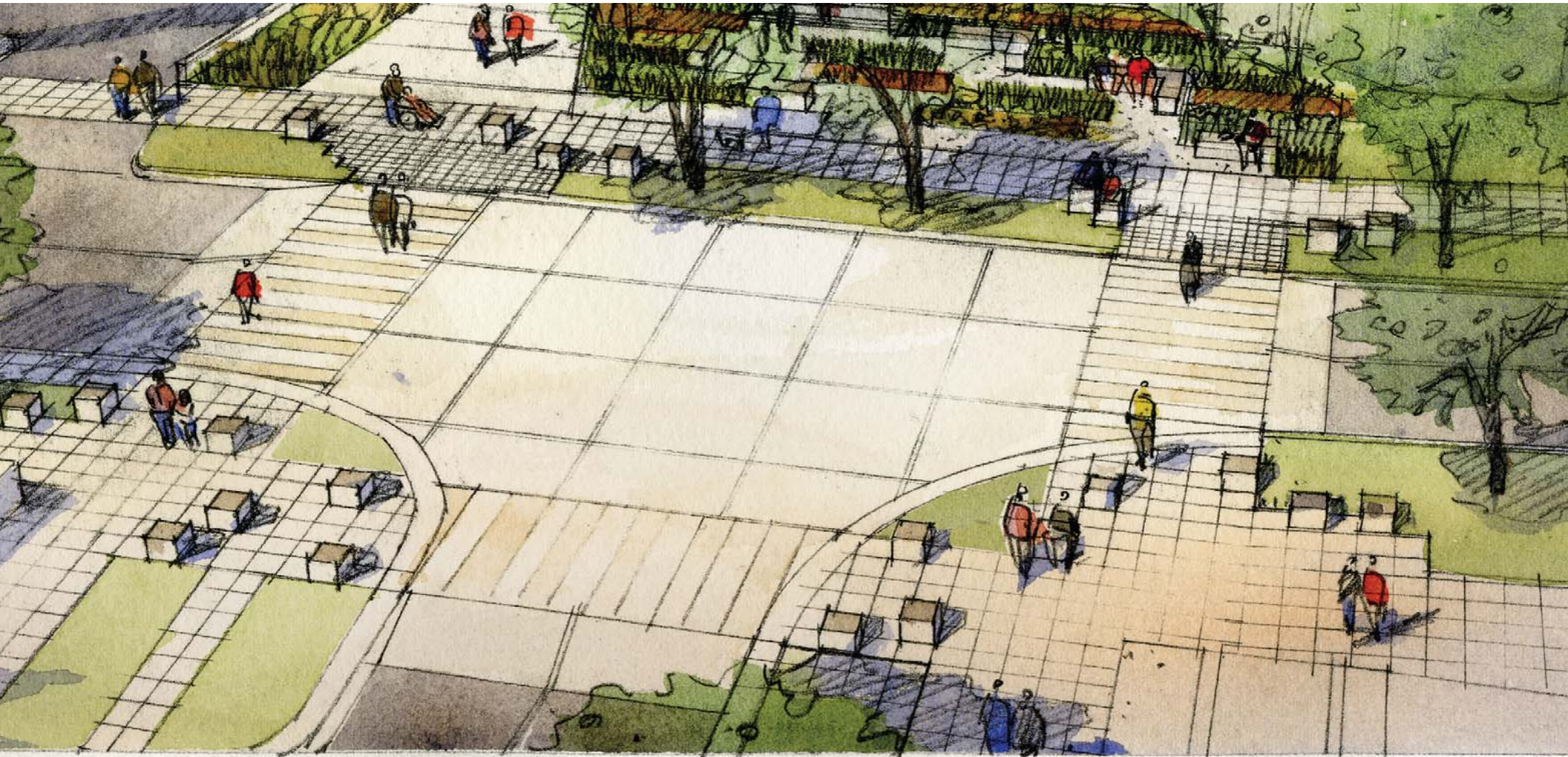


MATERIALS LEGEND

- 1 Concrete - Broom Finish
- 2 Crosswalk Striping
- 3 3" Curb Ramp

4 - MINOR & COLUMBIA RAISED INTERSECTION

RENDERING BY STEPHANIE BOWER



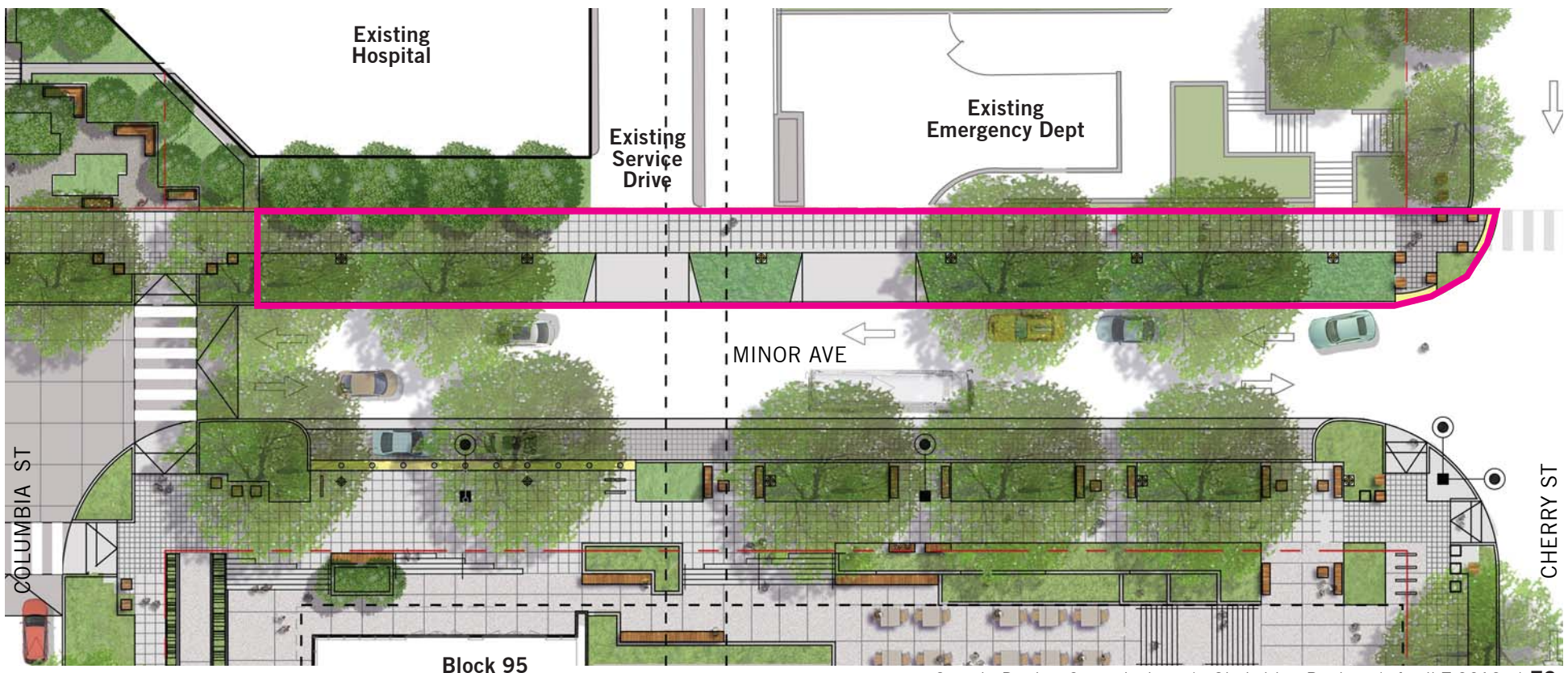
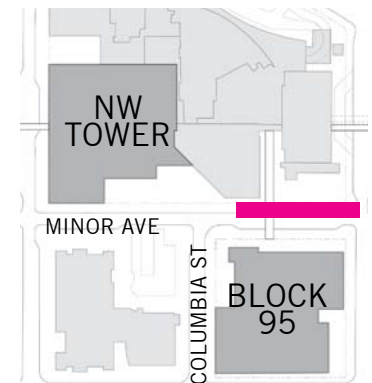
5 - MINOR AVE ROW IMPROVEMENTS

PROPOSAL

- Improve the east side of Minor Ave directly fronting the existing emergency department and not required by adjacent projects
- Improvements include new street paving, curb, sidewalk and curb ramps, street trees, plantings and pedestrian lights

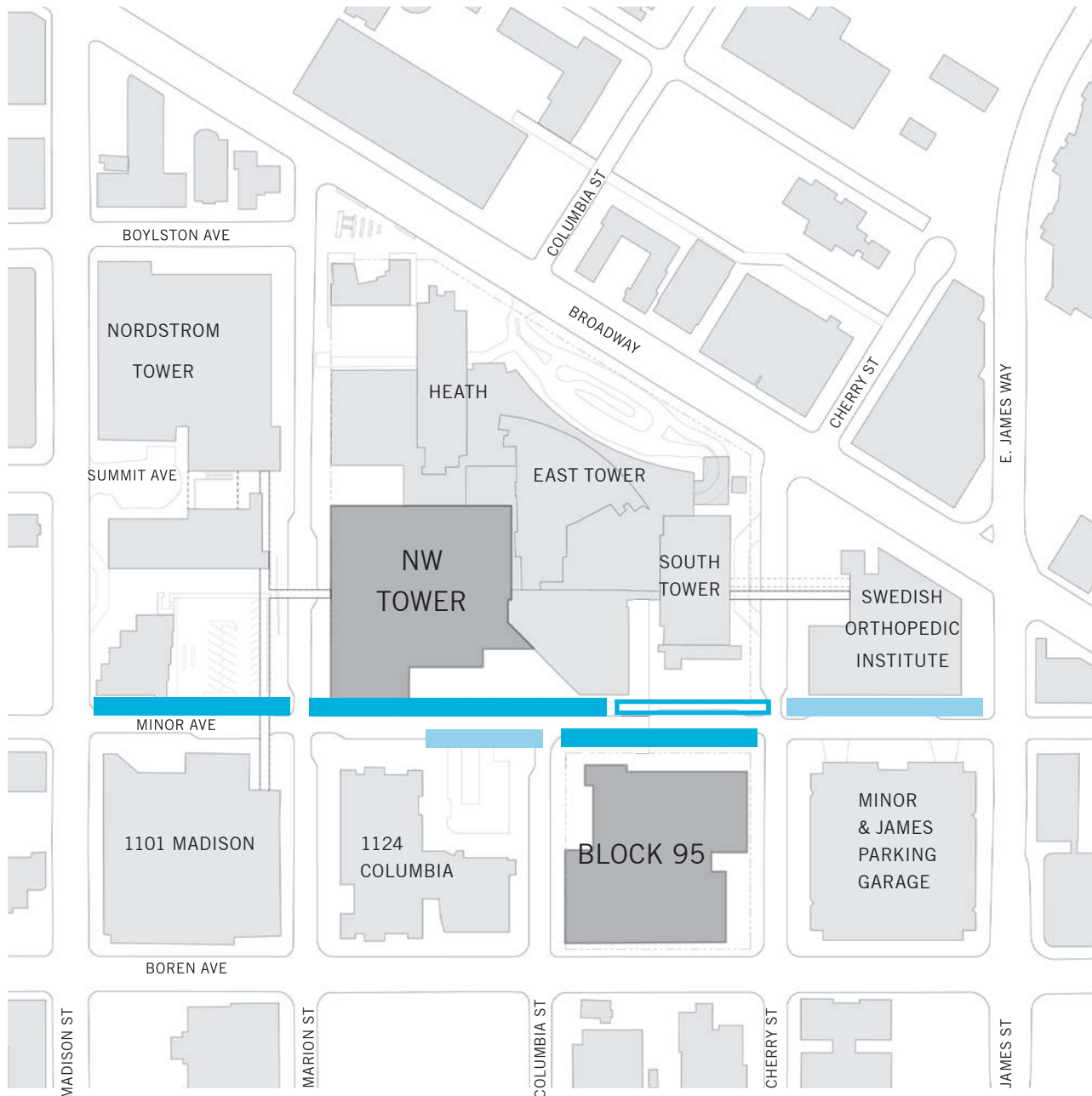
PUBLIC BENEFIT SUMMARY

4,100 SF of Open Space



5 - MINOR AVE ROW IMPROVEMENTS

CONTEXT



LEGEND

- Project Improvements
- Recent Improvements
- Minor Ave Enhanced ROW

5 - MINOR AVE ROW IMPROVEMENTS

MATERIALS BOARD



Ginkgo biloba / Ginkgo



Quercus coccinea / Scarlet Oak

