



Community Task Force

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in calendar invite*

Department of Community Services
Transportation Division

April 27, 2020

Agenda

1. Welcome, Introductions & Housekeeping
2. Public Comment
3. Project Update
4. Technical Report Findings – Key Differentiators
5. Next Steps & Closing Remarks



Introductions and Roll Call

- **Art Graves**, Multnomah County Bike and Pedestrian Citizen Advisory Committee
- **Cameron Hunt**, Portland Spirit
- **Dan Lenzen**, Old Town Community Association
- **Ed Wortman**, Community Member
- **Frederick Cooper**, Laurelhurst Neighborhood Emergency Team
- **Gabe Rahe**, Burnside Skate Park
- **Howie Bierbaum**, Portland Saturday Market
- **Jackie Tate**, Community Member
- **Paul Leitman**, Oregon Walks
- **Jennifer Stein**, Central City Concern
- **Robert McDonald**, American Medical Response
- **Marie Dodds**, AAA of Oregon
- **Kiley Wilson**, Portland Business Alliance
- **Neil Jensen**, Gresham Area Chamber of Commerce
- **Peter Finley Fry**, Central Eastside Industrial Council
- **Sharon Wood Wortman**, Community Member
- **Stella Funk Butler**, Coalition of Gresham Neighborhood Associations
- **Susan Lindsay**, Buckman Community Association
- **Tesia Eisenberg**, Mercy Corps
- **Timothy Desper**, Portland Rescue Mission
- **William Burgel**, Portland Freight Advisory Committee





Project Update

Timeline and Process

2019	2020												2021	
	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	JAN	FEB
CTF		CTF CTF		CTF	CTF	CTF			CTF					
SASG			SASG	WORKSHOP	TAC	SASG			SASG					
COMMUNITY								COMMUNITY					COMMUNITY	
PG										PG				

- Legend:**
- PA Preferred Alternative
 - DEIS Draft Environmental Impact Statement
 - CTF Community Task Force
 - SASG Senior Agency Staff Group
 - PG Policy Group
 - TAC Technical Advisory Committee



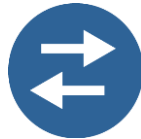
Alternatives Evaluation Process

- Developed **criteria** to represent stakeholder values
- Developed **measures** to rate the performance of an alternative in delivering on those values
- Developed **value weights** to each of the criteria to reflect their relative importance
- Next step: calculate a score for each alternative based on **performance rating** developed by technical staff and **value weights** developed by CTF

<i>Criterion</i>		<i>Rating x Weight = Score</i>		
1	SEISMIC RESILIENCY	1	10	10
2	COMMUNITY QUALITY OF LIFE	2	5	10
3	EQUITY & ENVIRONMENTAL JUSTICE	3	10	30
4	CRIME REDUCTION & PERSONAL	1	-	-



Alternatives Evaluation Process



Exploring key differentiators among alternatives

KEY DIFFERENTIATORS BRIDGE ALTERNATIVES		 Enhanced Seismic Retrofit	 Replacement: Short Span	 Replacement: Long Span	 Replacement: Couch Extension
SEISMIC RESILIENCY		More (8) supports in Geotechnical Hazard Zone (GHZ) = highest risk from soil movement during an earthquake	More (5) supports in GHZ = risk from soil movement during an earthquake	Fewest supports (1) in GHZ = least risk from soil movement during an earthquake	Most (6) supports in GHZ = risk from soil movement during an earthquake Highest potential for damage to bridge from adjacent falling structures
COMMUNITY QUALITY OF LIFE		Most supports (5) in Waterfront Park = least light, space and opportunity for activities under the bridge	More supports (2) in Waterfront Park = less light, space, and opportunity for activities under bridge	Fewest supports (1) in Waterfront Park = most light, space, and opportunity for activities under bridge	More supports (2) in Waterfront Park = less light, space, and opportunity for activities under bridge
EQUITY & ENVIRONMENTAL JUSTICE		Requires 2-3 month closure of existing accessways to Portland Rescue Mission (PRM) Longer closures of Skidmore MAX station during construction	Maintains all existing accessways to PRM throughout construction Shorter closures of Skidmore MAX station during construction	Maintains all existing accessways to PRM throughout construction Shorter closures of Skidmore MAX station during construction	Maintains all existing accessways to PRM throughout construction Shorter closures of Skidmore MAX station during construction
CRIME REDUCTION & PERSONAL SAFETY		Most supports = limited open space, visibility & sightlines	More supports = limited open space, visibility & sightlines	Fewest supports = increased open space, visibility and sightlines	More supports = limited open space, visibility & sightlines
BUSINESS & ECONOMICS		Shortest construction duration = shorter duration of disruption to business access via river crossing	More supports (2) in Waterfront Park = less light, space, and opportunity for activities under bridge	Shortest duration closure/relocation of Saturday Market = shortest disruption of events and related revenue	Displaces one additional business compared to the short or long span replacement bridges Permanent access impacts from changes in sidewalk and street elevations on 3rd Avenue
PARKS & RECREATION		Most supports (5) in Waterfront Park = least light, space and opportunity for activities under the bridge Demolishes the Burnside Skatepark, disrupting physical activity in the short term and reducing social cohesion-related health benefits in the long term.	Preserves historic Burnside Skatepark and Harbor Seawall Demolishes historic Burnside Bridge	Fewest supports (1) in Waterfront Park = most light, space, and opportunity for activities under bridge Shortest duration closure of Waterfront Park, Skatepark and Esplanade	More supports (2) in Waterfront Park = less light, space, and opportunity for activities under bridge Preserves historic Burnside Skatepark and Harbor Seawall Demolishes historic Burnside Bridge
HISTORICAL RESOURCES		Preserves limited portions of historic Burnside Bridge Demolishes historic Burnside Skatepark and part of Harbor Seawall	Maintains existing views	Maximum impact to existing views Greatest opportunities for new visual experience above and below deck	Maintains existing views Medium footprint in river = medium potential impact to water quality, fish, floodplain.
VISUAL & AESTHETICS		Largest footprint in river = greatest potential impact to water quality, fish, floodplain. Generates lower GHG emissions due to shorter construction and use of fewer new construction materials	Medium footprint in river = medium potential impact to water quality, fish, floodplain.	Smallest footprint in river = smallest potential impact to water quality, fish, floodplain.	Wider bikelped facilities Increased safety with crash barrier Lower exposure to air pollution for people walking & biking More out-of-direction travel to Esplanade disincentivizes physical activity and make travel more difficult for people with disabilities.
NATURAL RESOURCES, CLIMATE CHANGE & SUSTAINABILITY		Least opportunity for improved bikelped facilities	Wider bikelped facilities Increased safety with crash barrier Lower exposure to air pollution for people walking & biking	Wider bikelped facilities Increased safety with crash barrier Lower exposure to air pollution for people walking & biking	Smoothen access for large westbound trucks and vehicles Improves operations for potential future streetcar Improves visibility and eliminates potential vulnerability for transit collisions through Couch "S" curve.
PEDESTRIANS, BICYCLISTS & PEOPLE WITH DISABILITIES					Highest construction cost due to greater material needs, geotechnical hazard mitigation, and ROW acquisition Highest long term maintenance cost due to increased bridge area, structural members, and difficult access
MOTOR VEHICLES, FREIGHT & TRUCKS				Lowest construction cost due to minimizing geotechnical hazard mitigation, utility relocation, and foundation work	



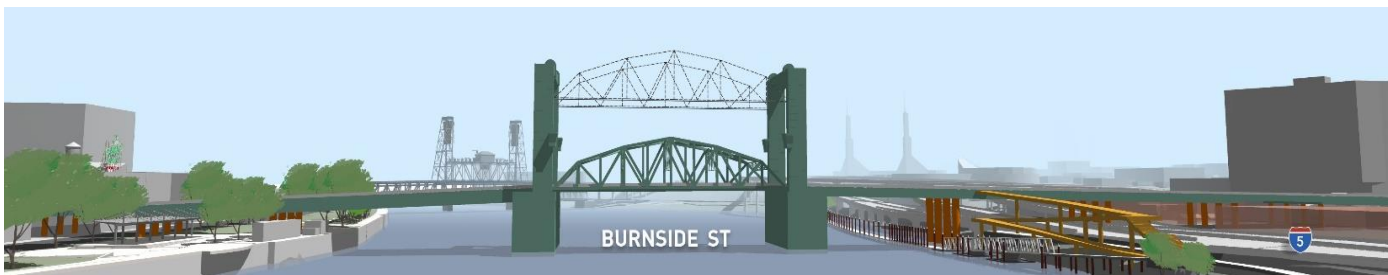
Technical Report Findings

Bridge Alternatives – Key Differentiators

Enhanced Seismic Retrofit



**Replacement:
Short Span**



**Replacement:
Long Span**



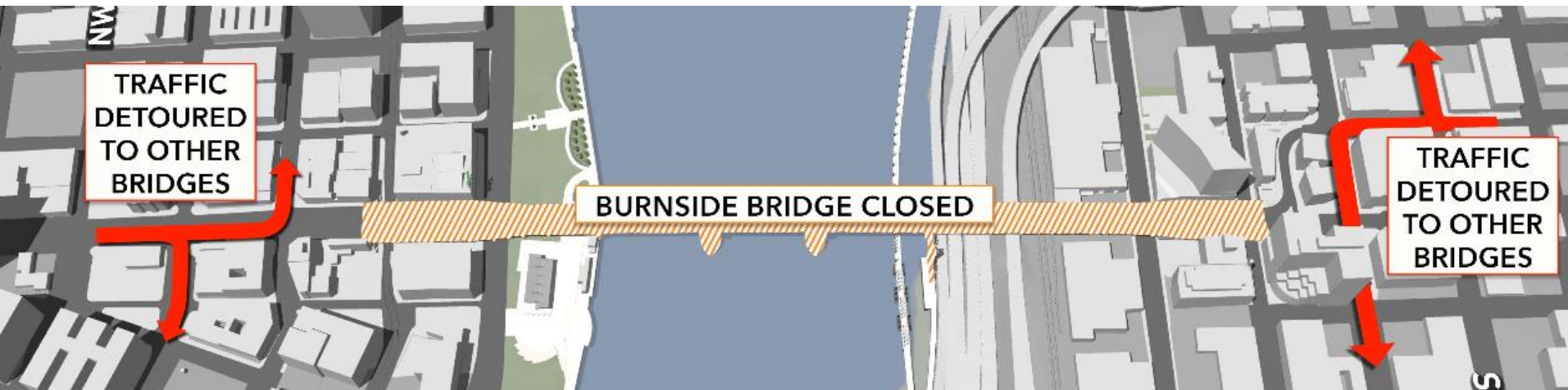
**Replacement:
Couch Extension**



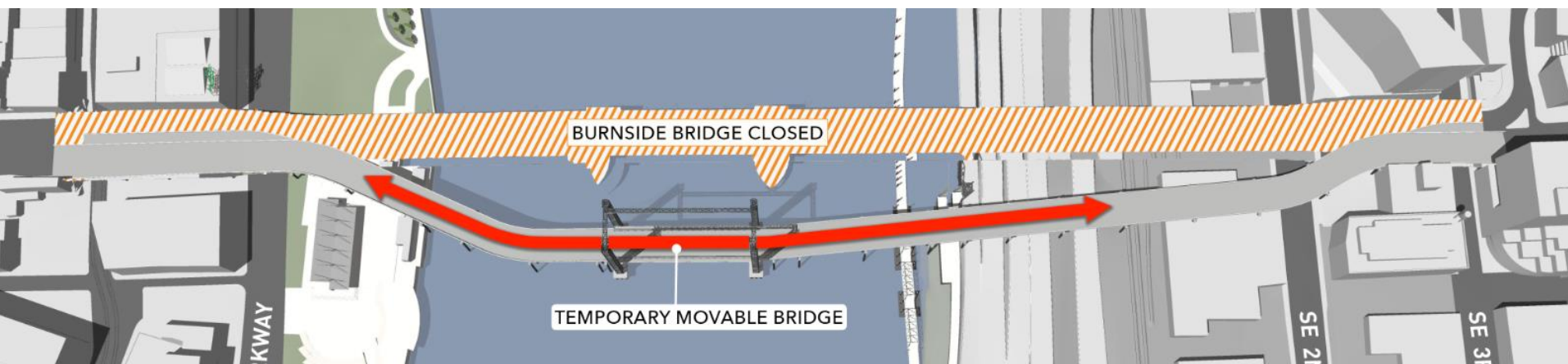
Technical Report Findings

Traffic Options During Construction – Key Differentiators

Full Bridge Closure



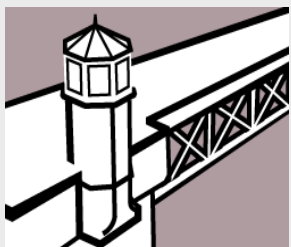
Temporary Bridge



Bridge Alternatives Key Differentiators



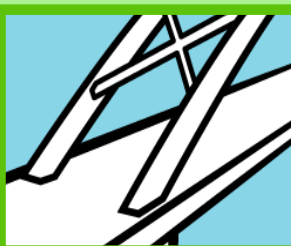
ALTERNATIVES:



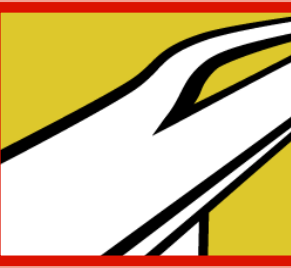
RETROFIT



SHORT SPAN



LONG SPAN



COUCH EXTENSION

KEY

The icons at left represent the four bridge alternatives being studied.

Green callout boxes show positive key differentiators

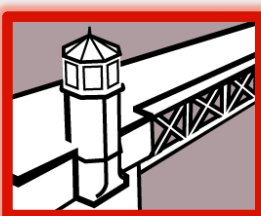
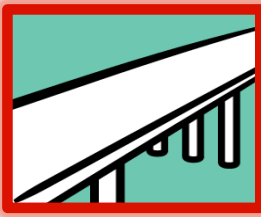


Red callout boxes show negative key differentiators

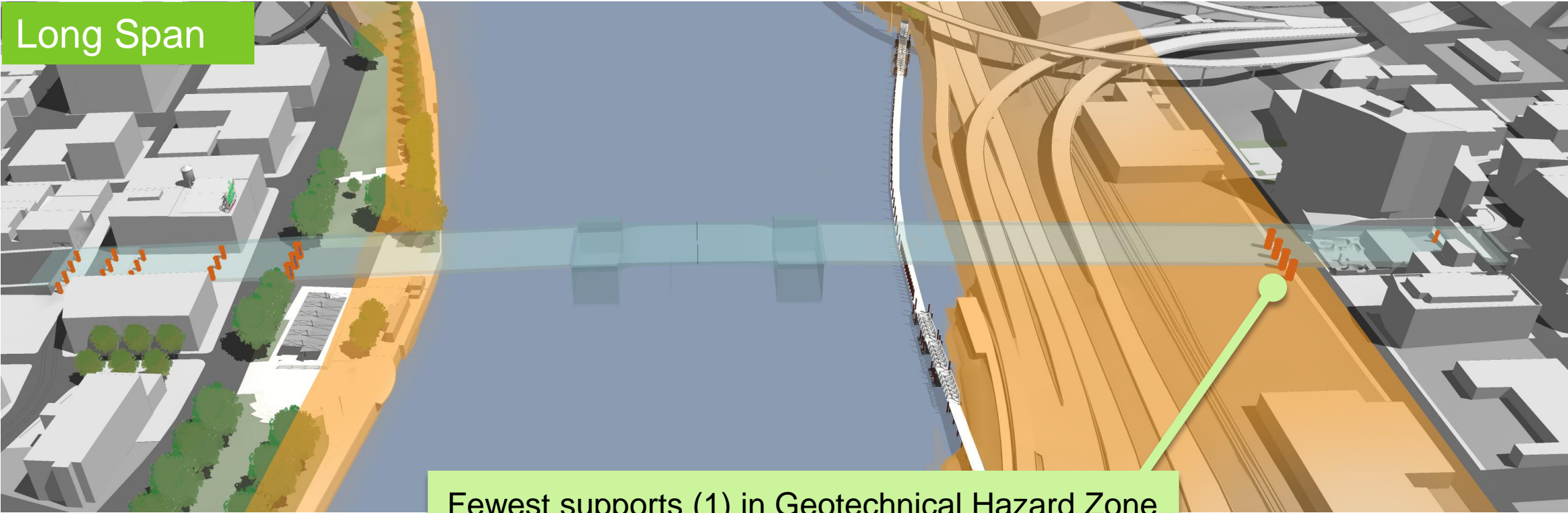
A green highlight around a bridge alternative indicates a positive differentiator for that bridge.

A red highlight around a bridge alternative indicates a negative differentiator for that bridge.

Bridge graphic concepts are examples only.

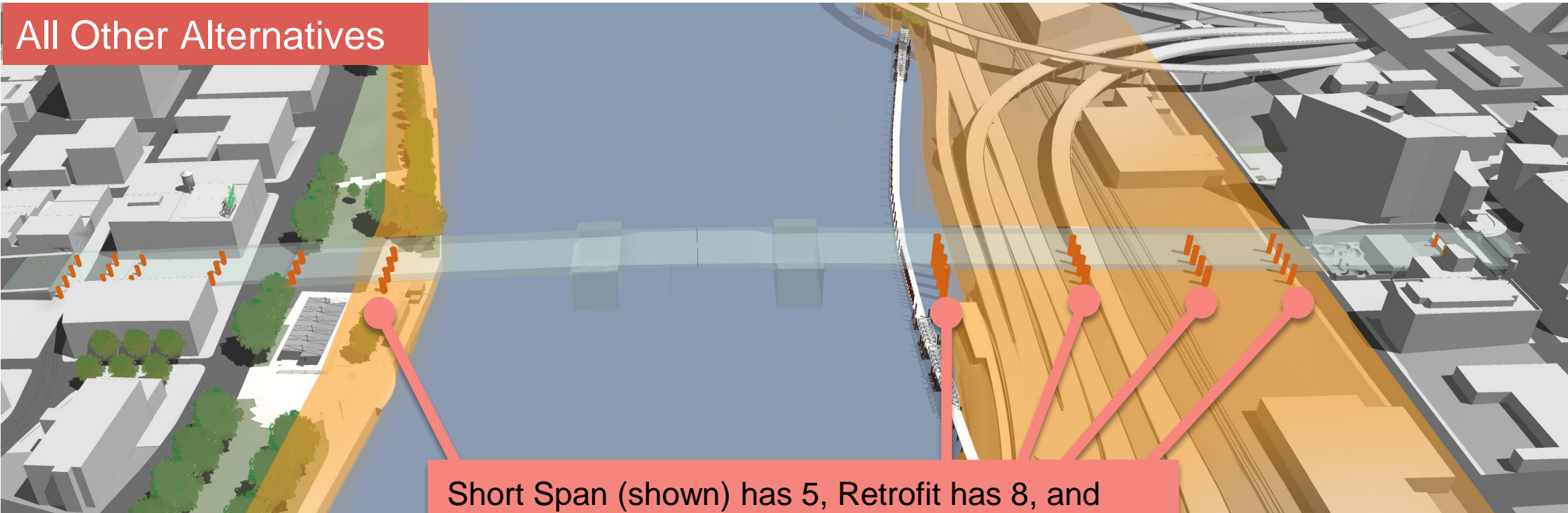
ALTERNATIVES:

-  RETROFIT
-  SHORT SPAN
-  LONG SPAN
-  COUCH EXTENSION



Long Span

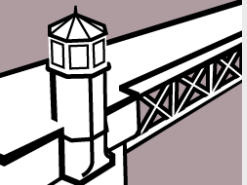

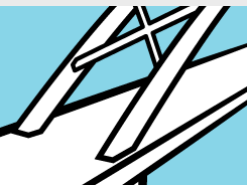

Fewest supports (1) in Geotechnical Hazard Zone (GHZ) = least risk from soil movement during an earthquake

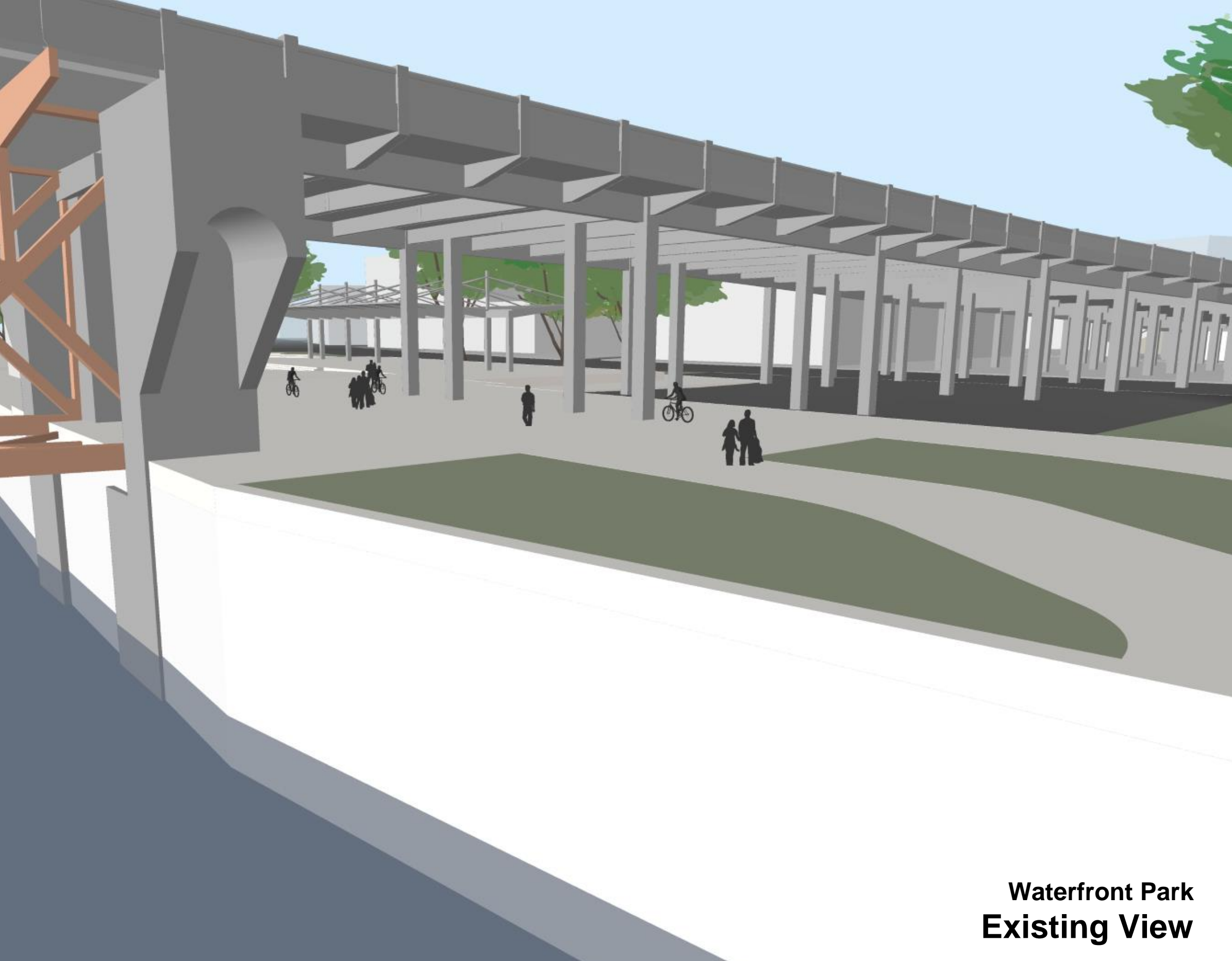


All Other Alternatives

Short Span (shown) has 5, Retrofit has 8, and Couch Extension has 9 supports in GHZ

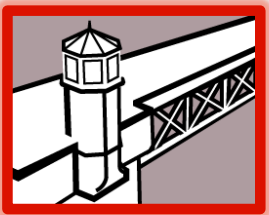
ALTERNATIVES:

- 
RETROFIT
- 
SHORT SPAN
- 
LONG SPAN
- 
COUCH
EXTENSION



**Waterfront Park
Existing View**

ALTERNATIVES:



RETROFIT



SHORT SPAN

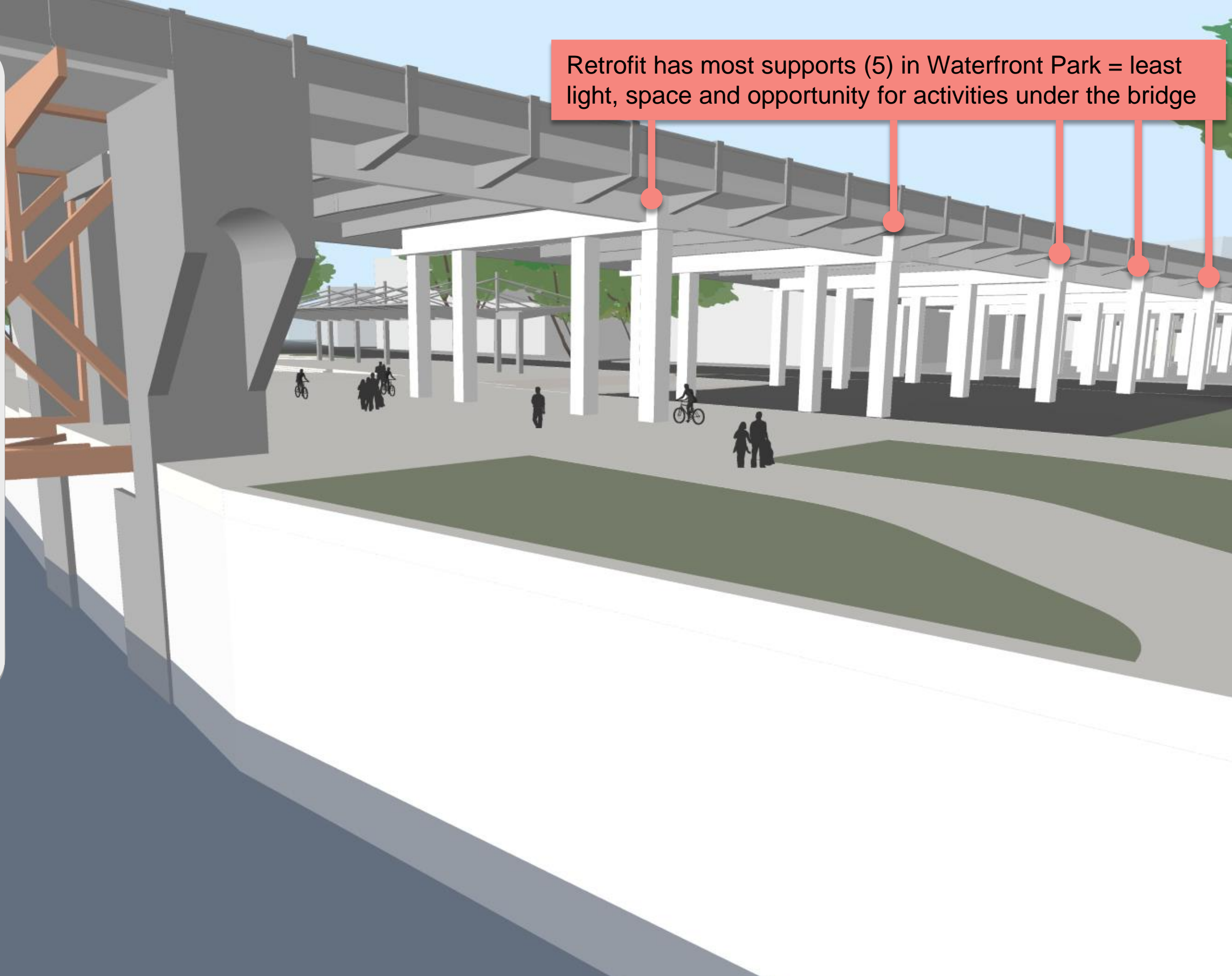


LONG SPAN

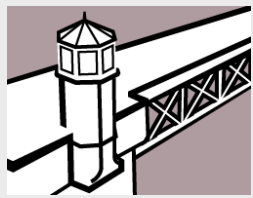


COUCH EXTENSION

Retrofit has most supports (5) in Waterfront Park = least light, space and opportunity for activities under the bridge



ALTERNATIVES:



RETROFIT



SHORT SPAN

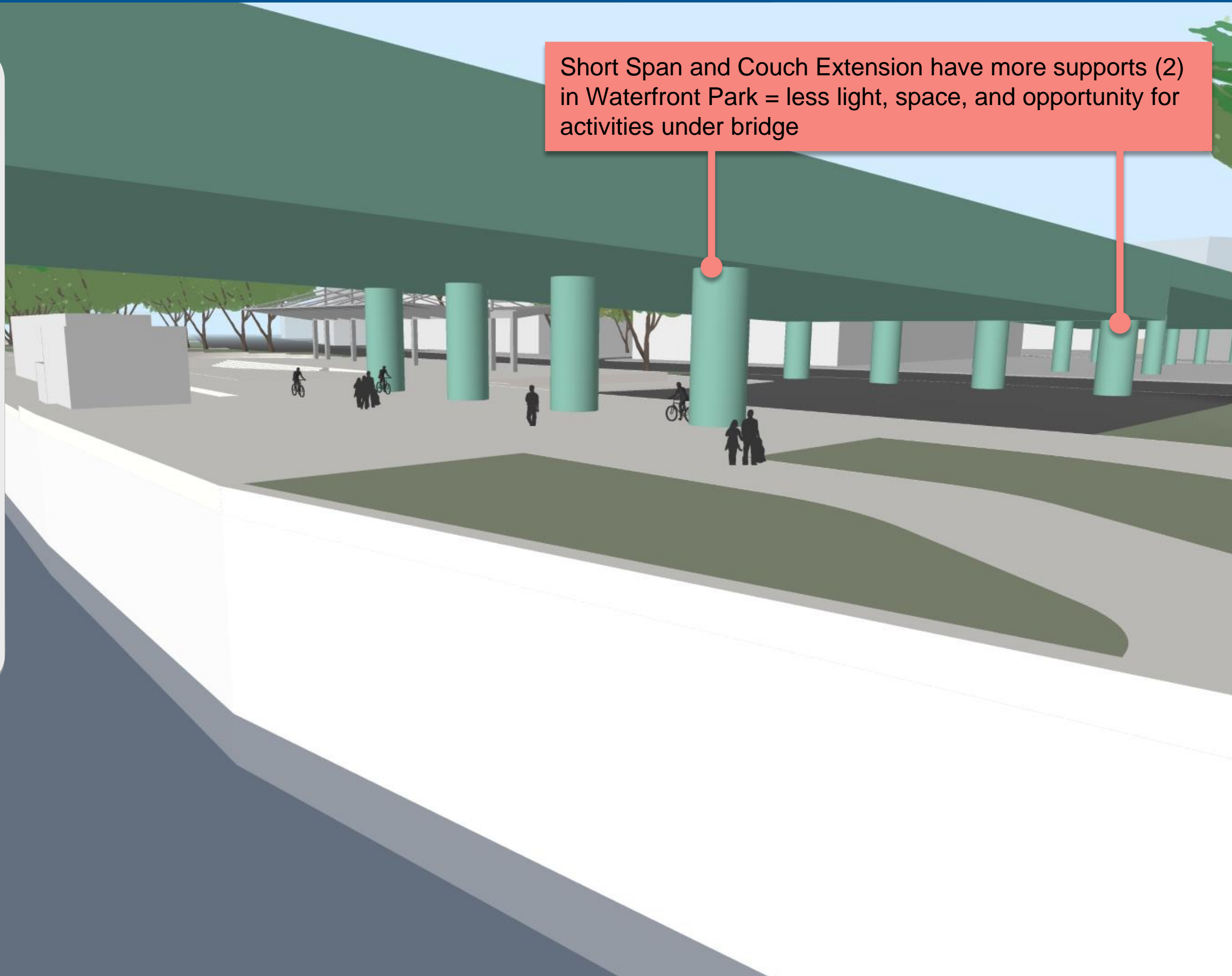


LONG SPAN

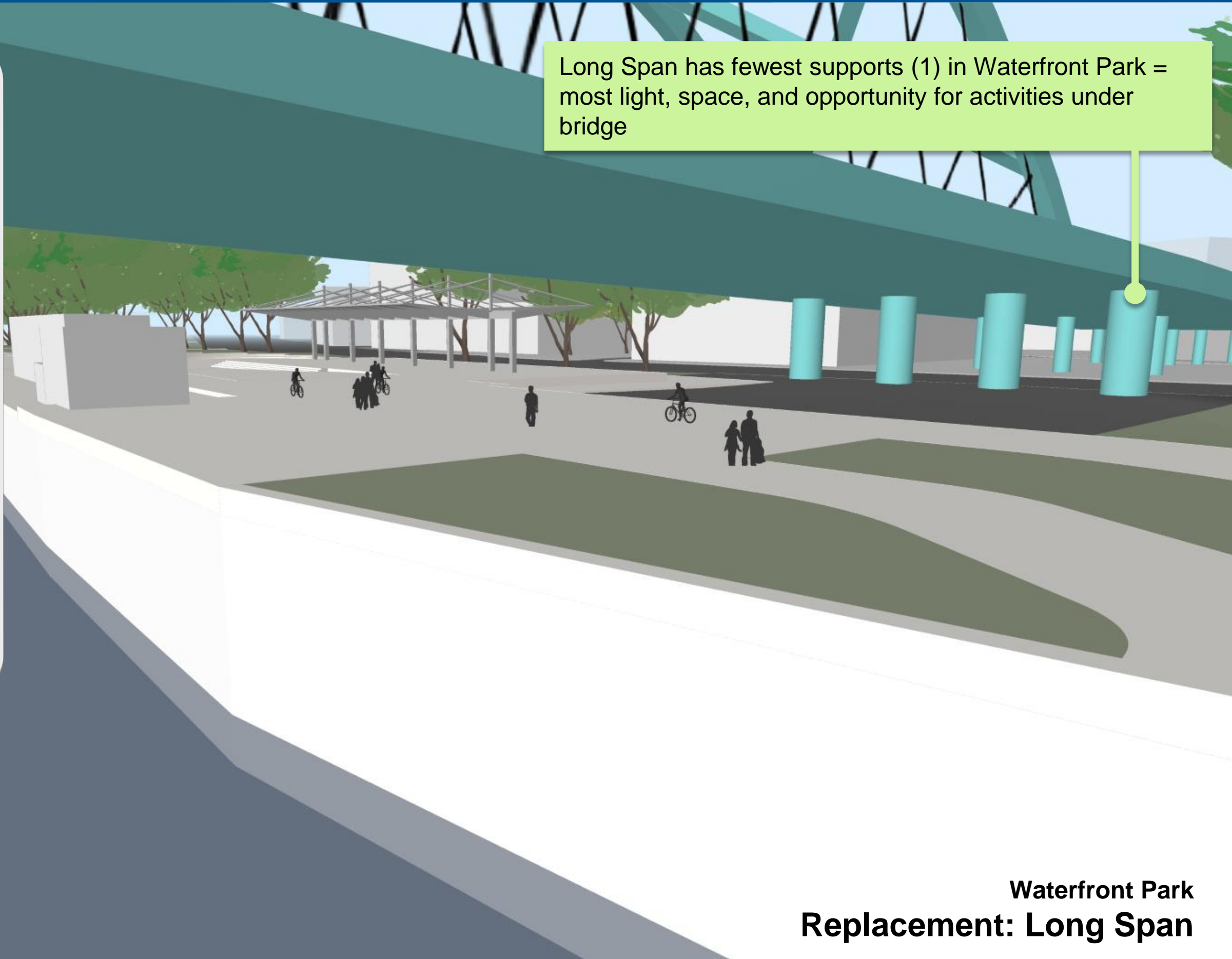


COUCH EXTENSION

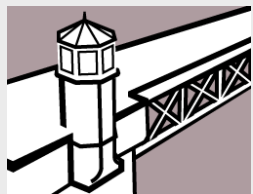
Short Span and Couch Extension have more supports (2) in Waterfront Park = less light, space, and opportunity for activities under bridge



Long Span has fewest supports (1) in Waterfront Park = most light, space, and opportunity for activities under bridge



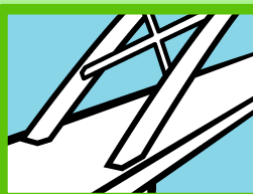
ALTERNATIVES:



RETROFIT



SHORT SPAN

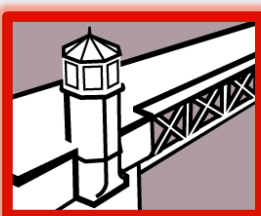

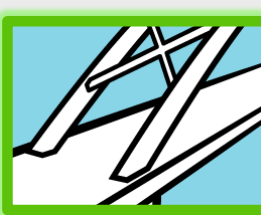



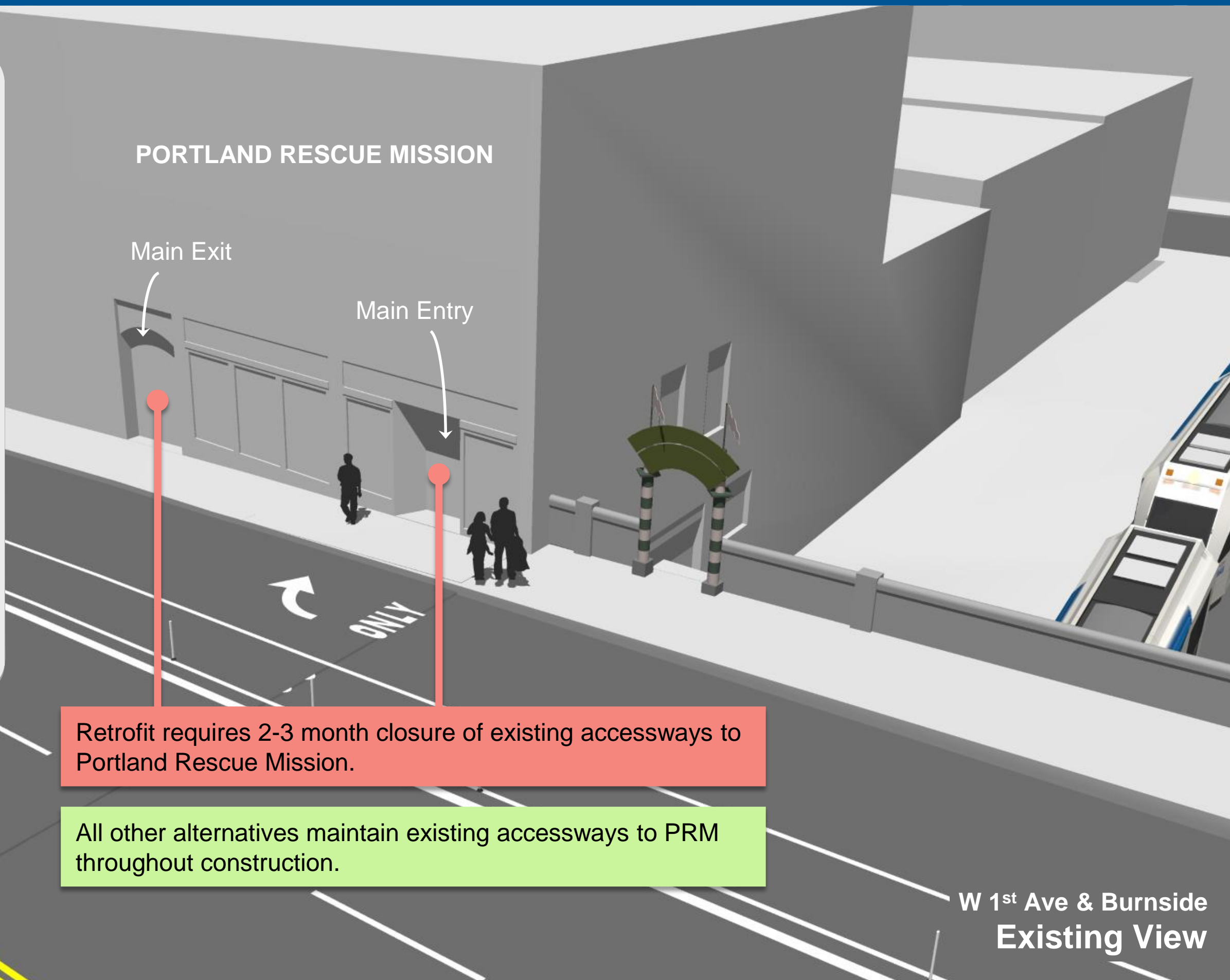
LONG SPAN



COUCH EXTENSION

ALTERNATIVES:

-  RETROFIT
-  SHORT SPAN
-  LONG SPAN
-  COUCH EXTENSION

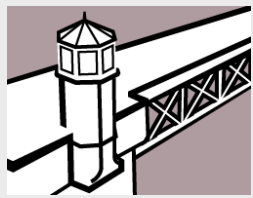


Retrofit requires 2-3 month closure of existing accessways to Portland Rescue Mission.

All other alternatives maintain existing accessways to PRM throughout construction.

W 1st Ave & Burnside
Existing View

ALTERNATIVES:



RETROFIT



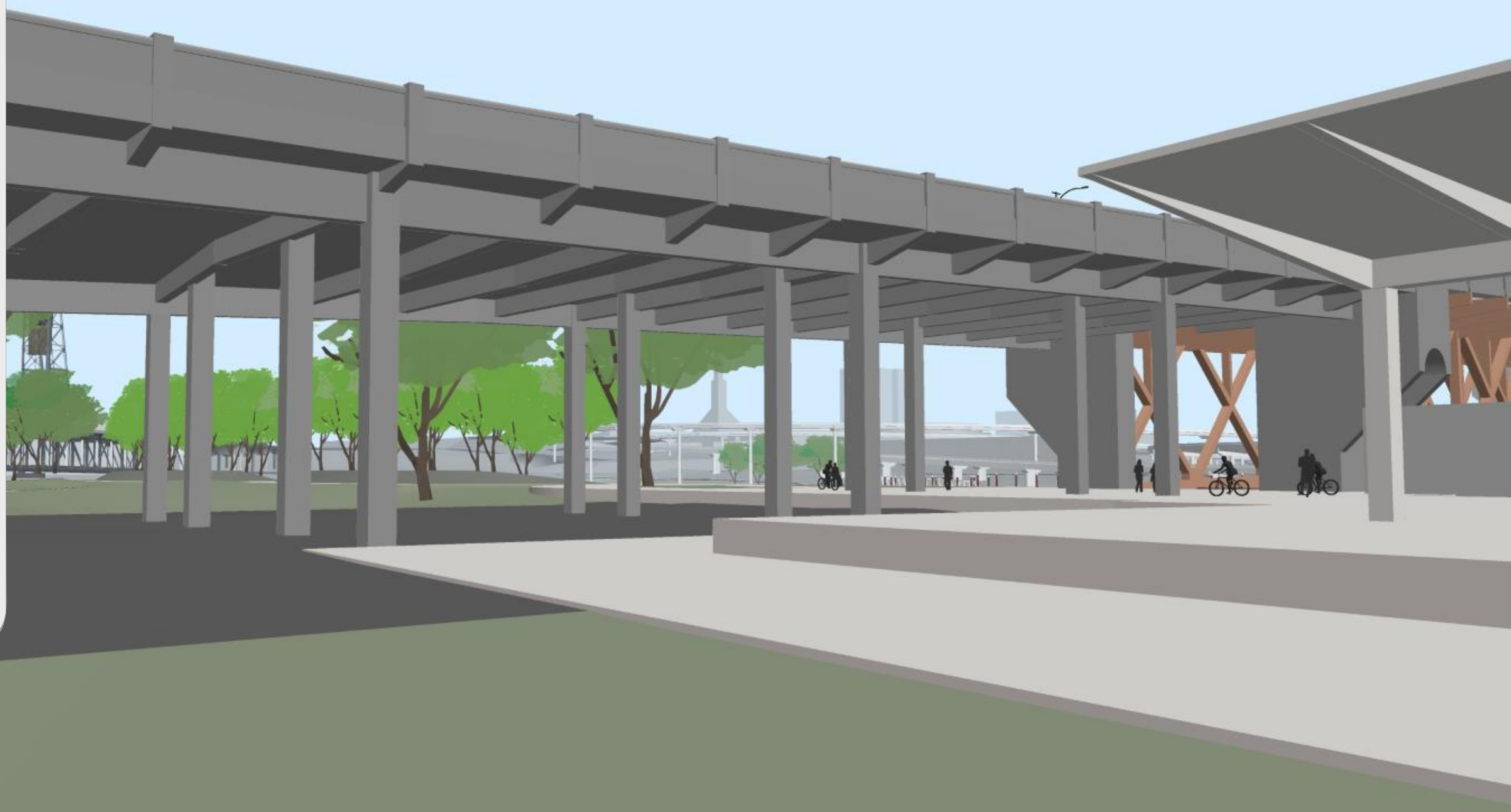
SHORT SPAN



LONG SPAN

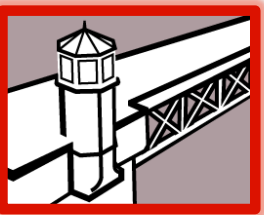


COUCH EXTENSION



Naito Parkway
Existing View

ALTERNATIVES:



RETROFIT



SHORT SPAN



LONG SPAN



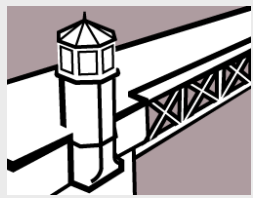
COUCH
EXTENSION



Most supports = limited open space, visibility and sightlines

Naito Parkway
Retrofit

ALTERNATIVES:



RETROFIT



SHORT SPAN



LONG SPAN



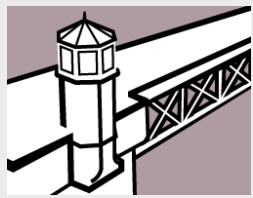
COUCH
EXTENSION



More supports = limited open space, visibility and sightlines

Naito Parkway Short Span Replacement and Couch Extension

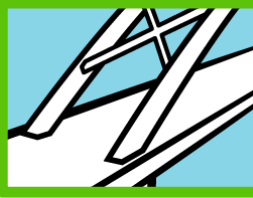
ALTERNATIVES:



RETROFIT



SHORT SPAN



LONG SPAN



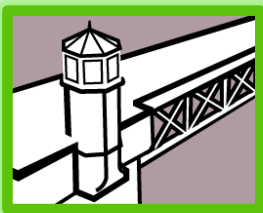
COUCH EXTENSION



Fewest supports = increased open space, visibility and sightlines

Naito Parkway
Long Span

ALTERNATIVES:



RETROFIT



SHORT SPAN



LONG SPAN

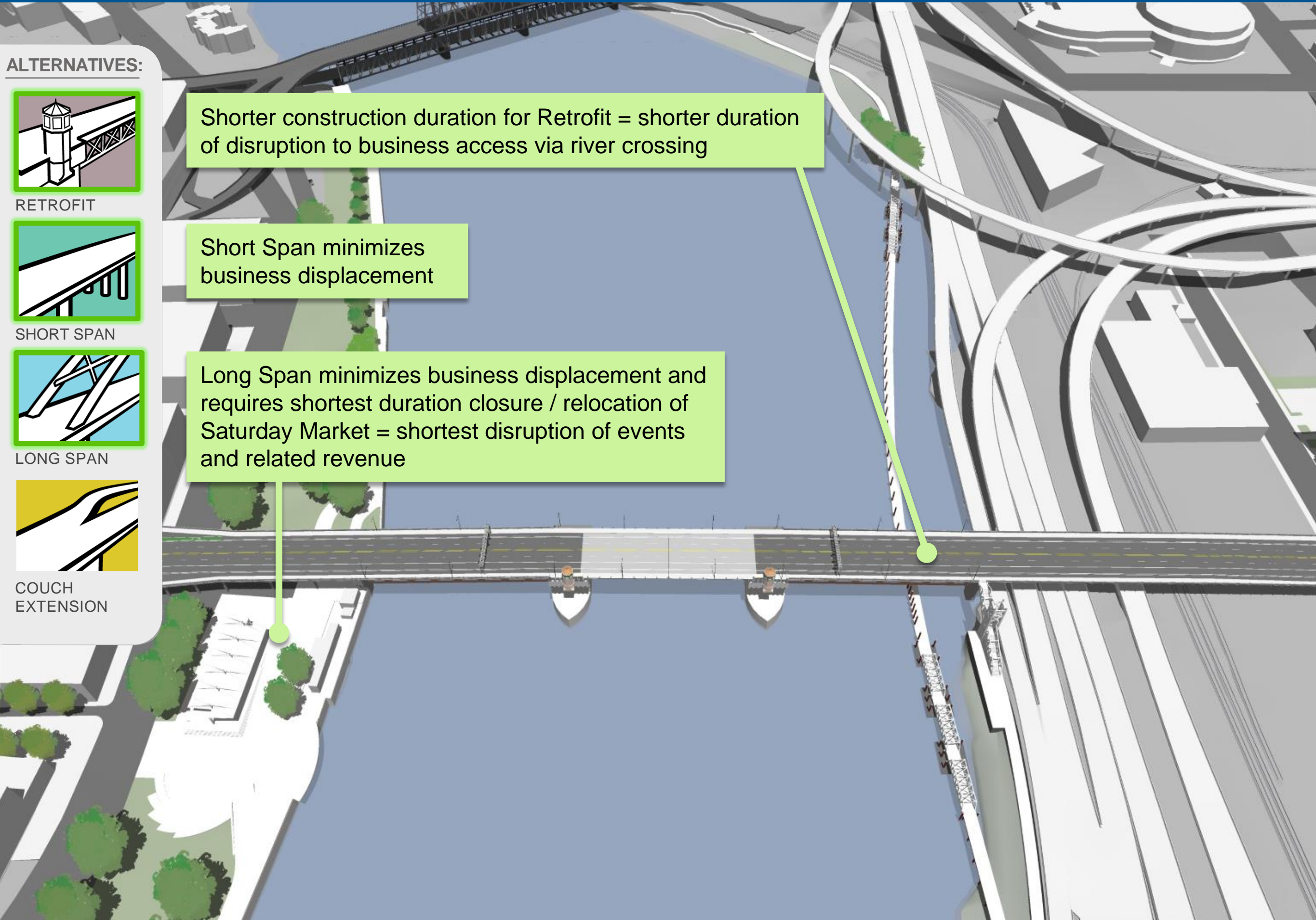


COUCH EXTENSION

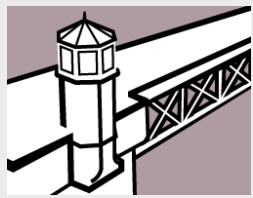
Shorter construction duration for Retrofit = shorter duration of disruption to business access via river crossing

Short Span minimizes business displacement

Long Span minimizes business displacement and requires shortest duration closure / relocation of Saturday Market = shortest disruption of events and related revenue



ALTERNATIVES:



RETROFIT



SHORT SPAN



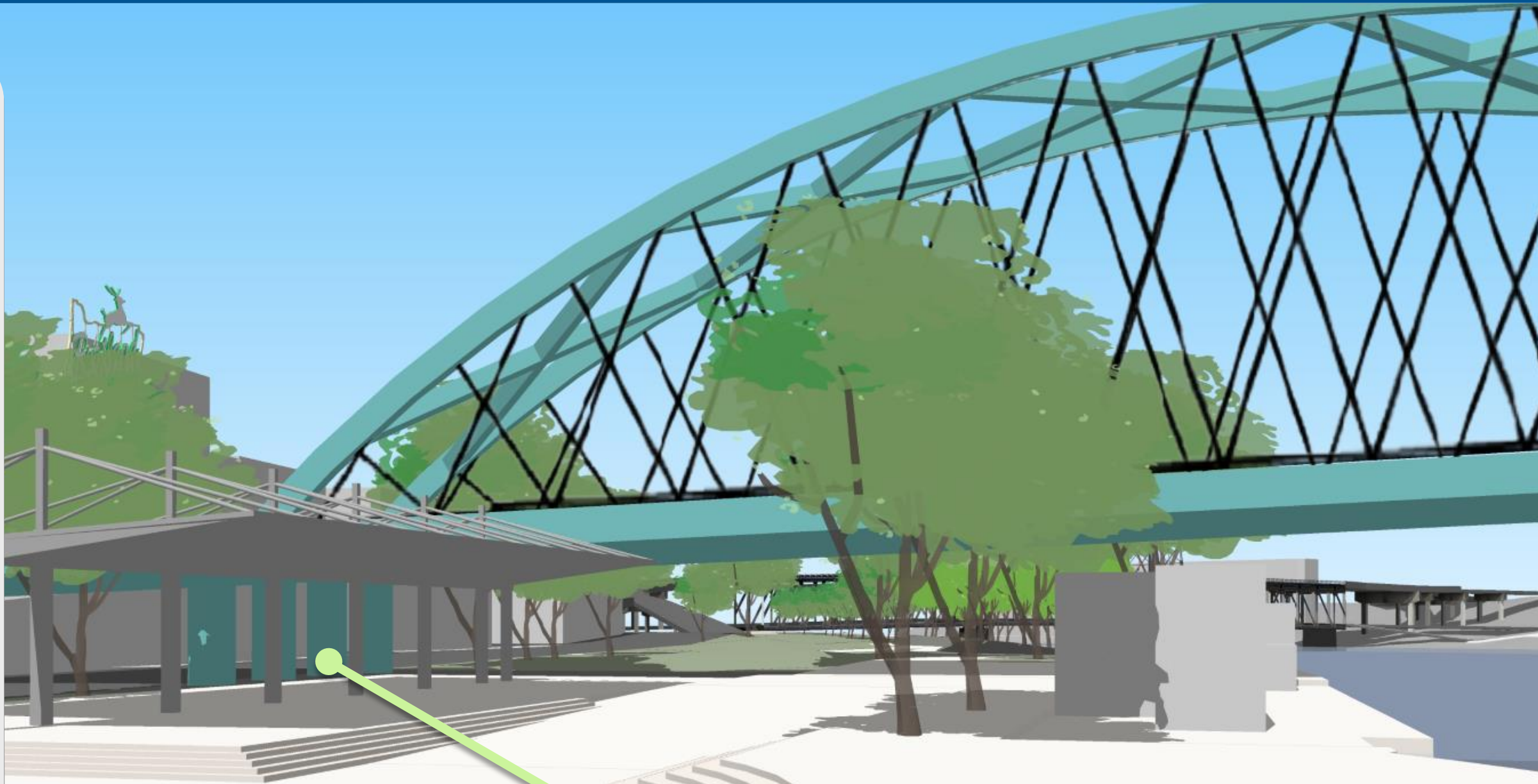
LONG SPAN



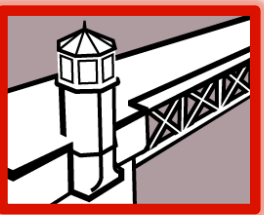
COUCH EXTENSION



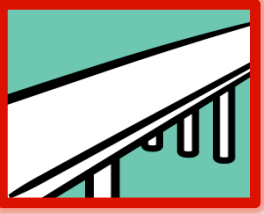
Couch Extension displaces one additional business compared to Short or Long Span, and has permanent access impacts from changes in sidewalk and street elevations on 3rd Avenue



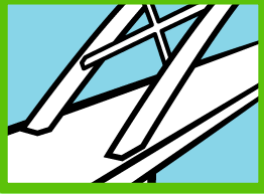
ALTERNATIVES:



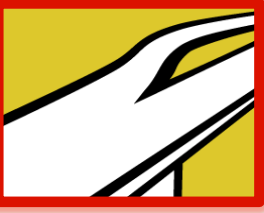
RETROFIT



SHORT SPAN



LONG SPAN

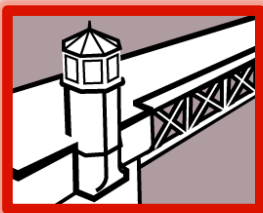


COUCH EXTENSION

Long Span has fewest supports (1) in Waterfront Park = most light, space, and opportunity for activities under bridge.
Long Span also has shortest duration of closure of Waterfront Park, Skatepark and Esplanade

Short Span (2), Couch Extension and Retrofit (5) have more supports = less light, space, and opportunity for activities under bridge.
These options would also require longer park closure.

ALTERNATIVES:



RETROFIT



SHORT SPAN

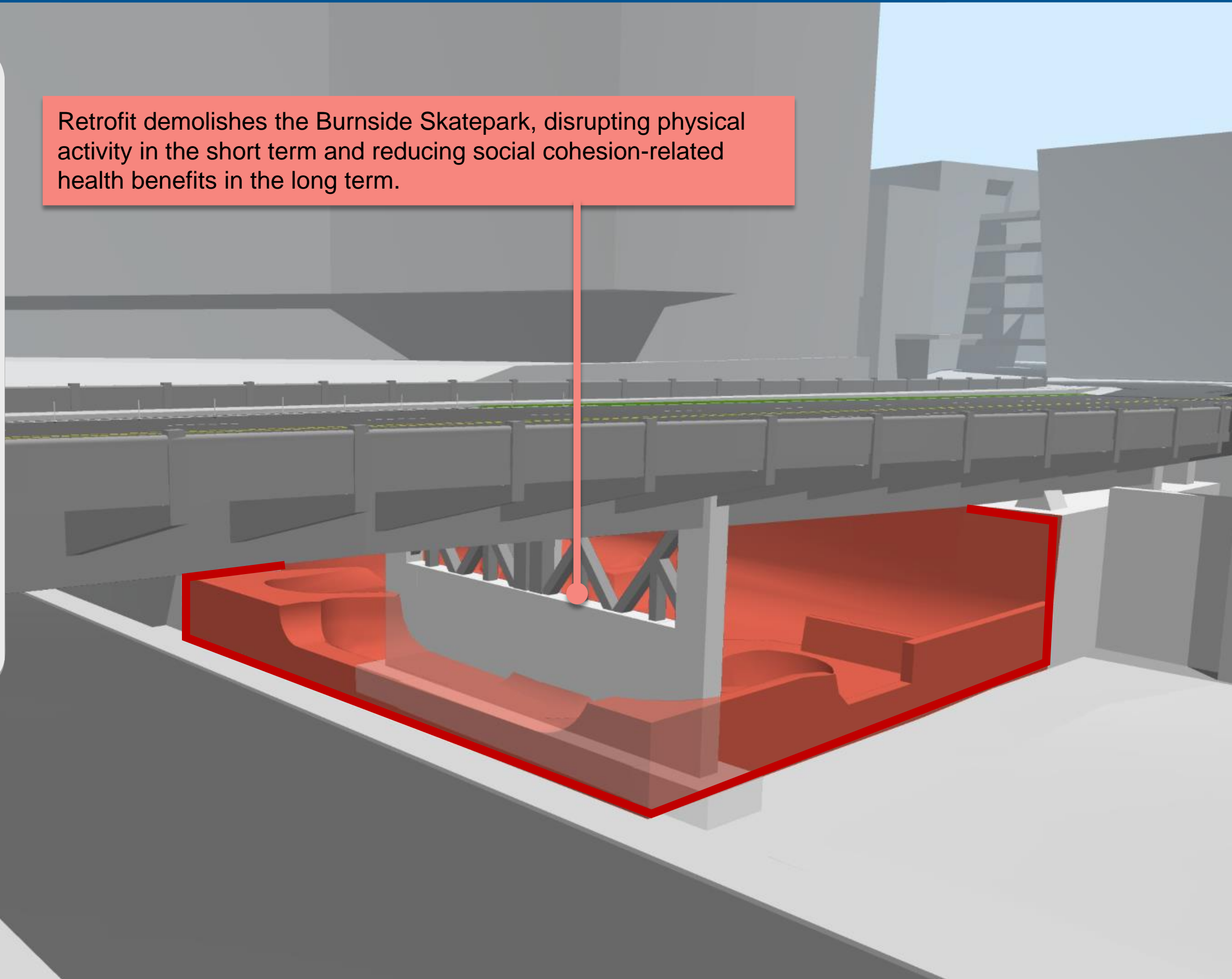


LONG SPAN

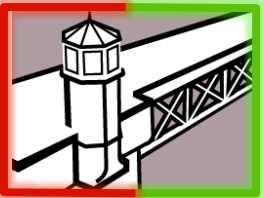


COUCH
EXTENSION

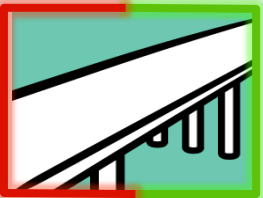
Retrofit demolishes the Burnside Skatepark, disrupting physical activity in the short term and reducing social cohesion-related health benefits in the long term.



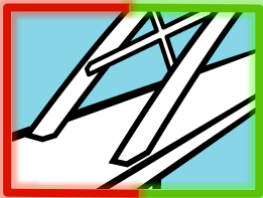
ALTERNATIVES:



RETROFIT



SHORT SPAN



LONG SPAN



COUCH
EXTENSION



Photo: Multnomah County

Retrofit preserves limited portions of the historic Burnside Bridge.

Replacement options demolish the historic Burnside Bridge.

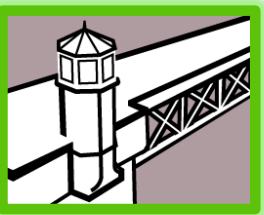


Photo: Wikipedia user Bentzleyc

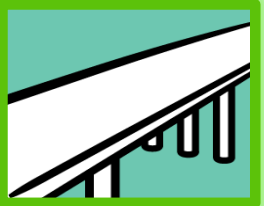
Retrofit demolishes Burnside Skatepark (shown) and part of harbor seawall (not shown).

Replacement options preserve the harbor seawall and the historic Burnside Skatepark

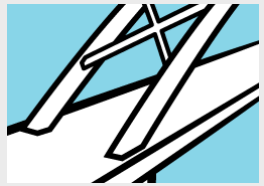
ALTERNATIVES:



RETROFIT



SHORT SPAN



LONG SPAN

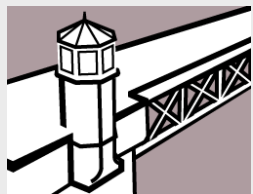


COUCH
EXTENSION

Short Span, Couch Extension and Retrofit maintain existing views for the most part.



ALTERNATIVES:



RETROFIT



SHORT SPAN



LONG SPAN

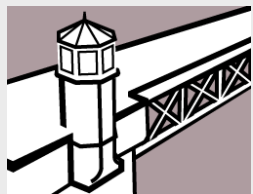


COUCH EXTENSION

Long Span has greatest opportunities for new visual experiences above and below deck



ALTERNATIVES:



RETROFIT



SHORT SPAN



LONG SPAN

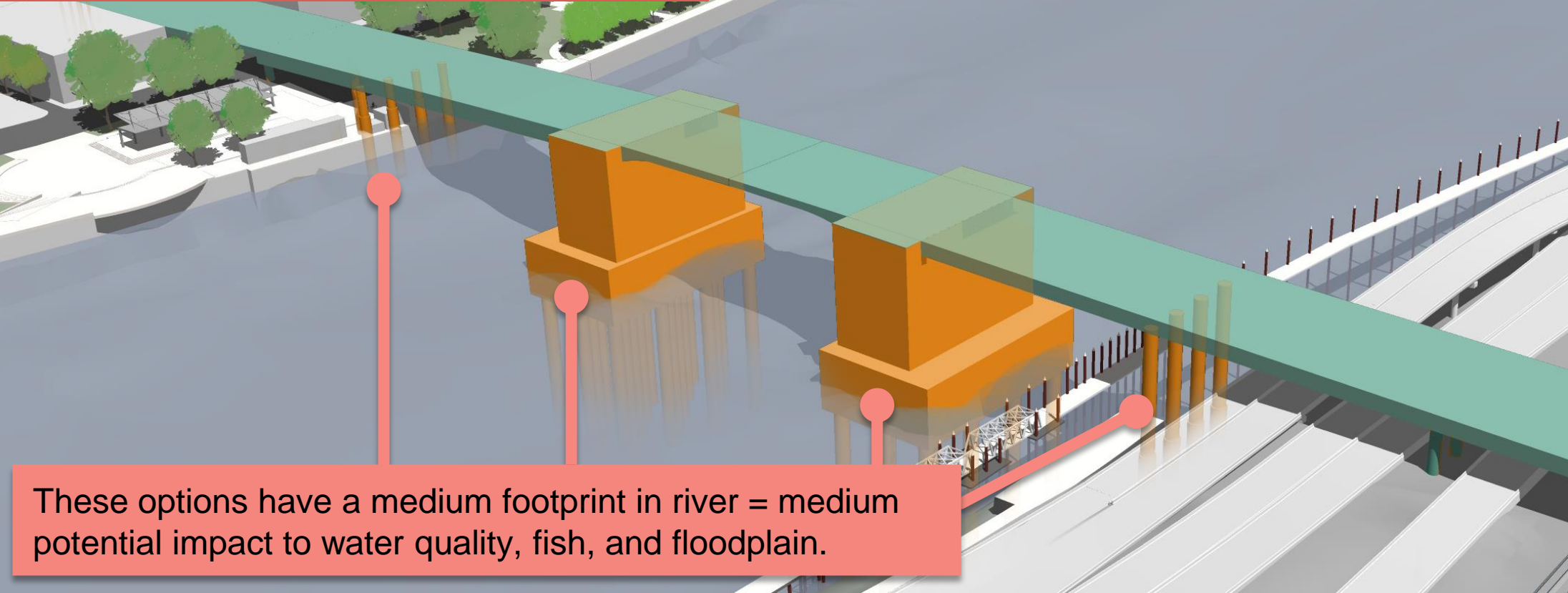


COUCH EXTENSION

However, Long Span also has a maximum impact to existing views

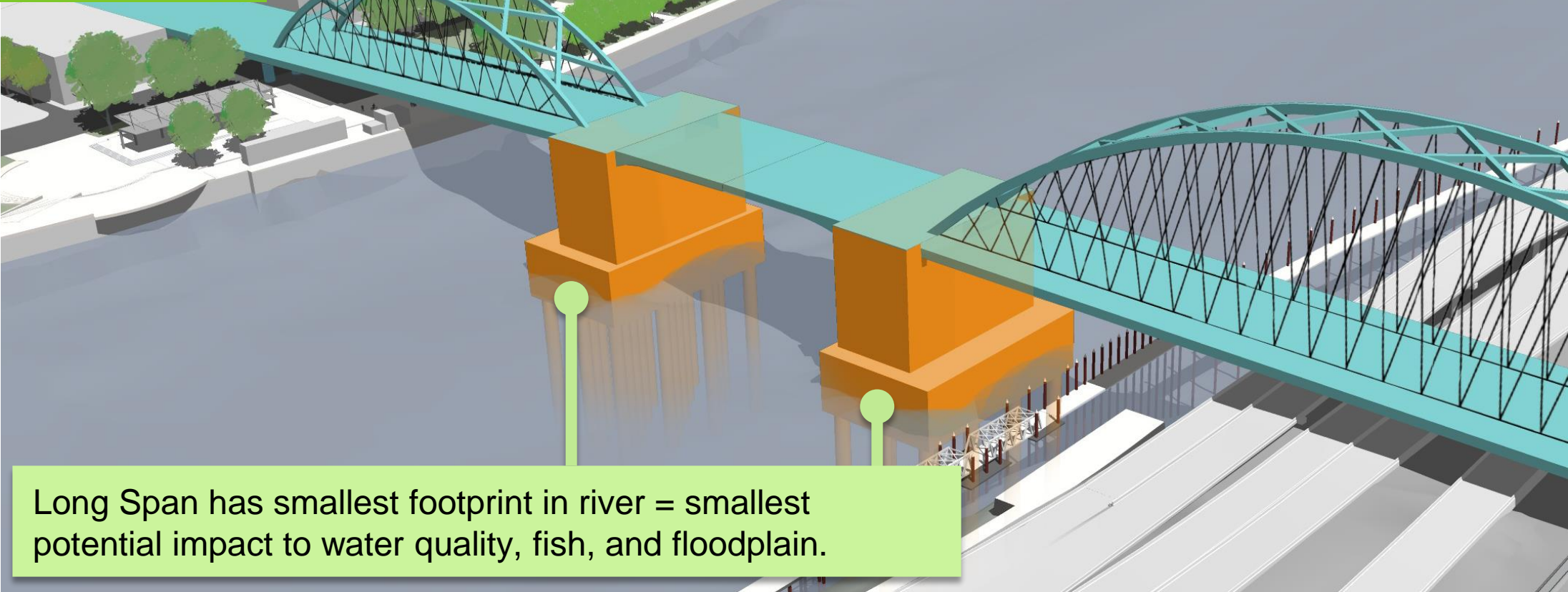


Short Span and Couch Extension



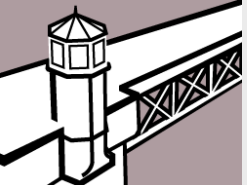



These options have a medium footprint in river = medium potential impact to water quality, fish, and floodplain.

Long Span

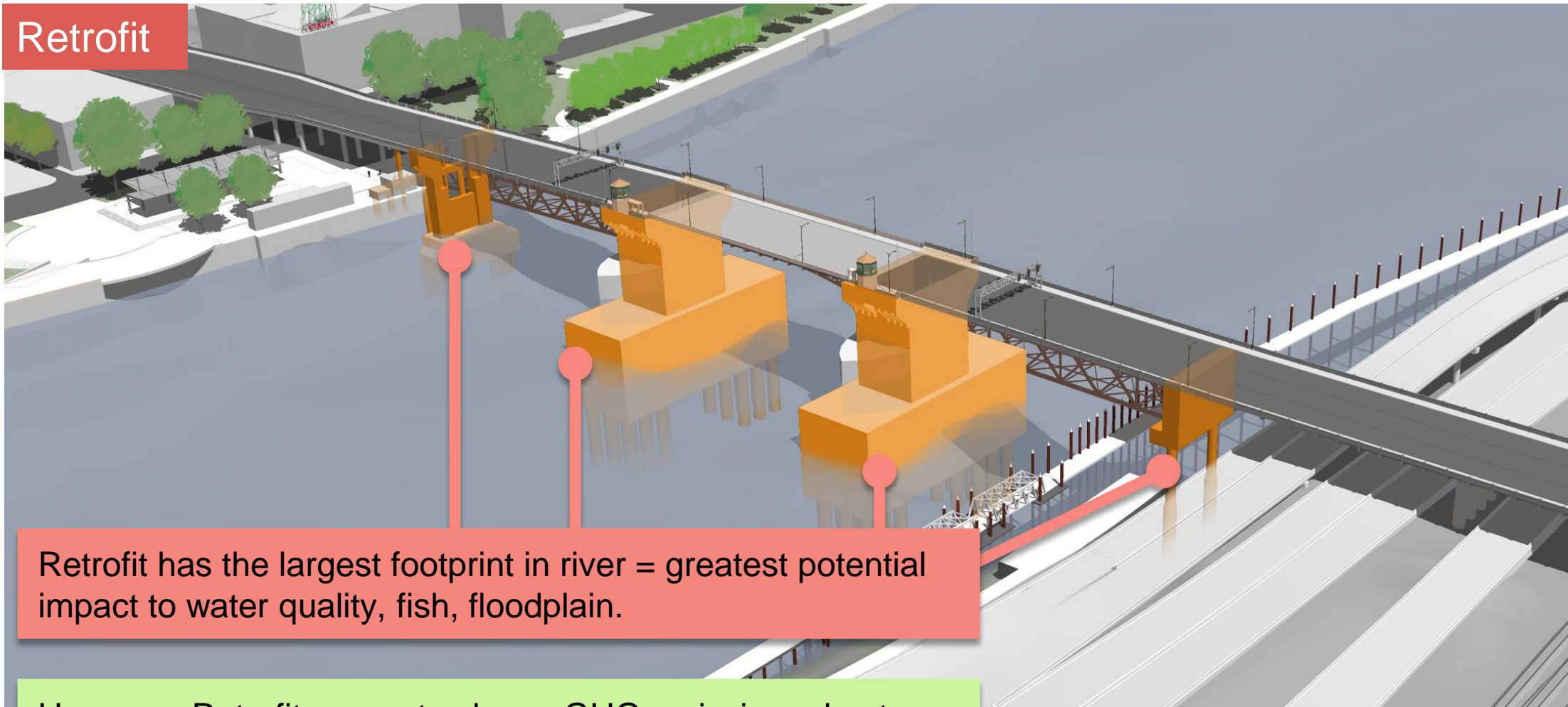


Long Span has smallest footprint in river = smallest potential impact to water quality, fish, and floodplain.

ALTERNATIVES:

-  RETROFIT
-  SHORT SPAN
-  LONG SPAN
-  COUCH EXTENSION

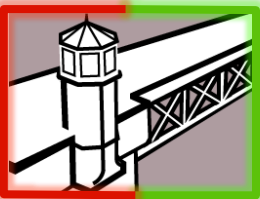

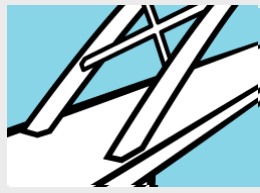

Retrofit



Retrofit has the largest footprint in river = greatest potential impact to water quality, fish, floodplain.

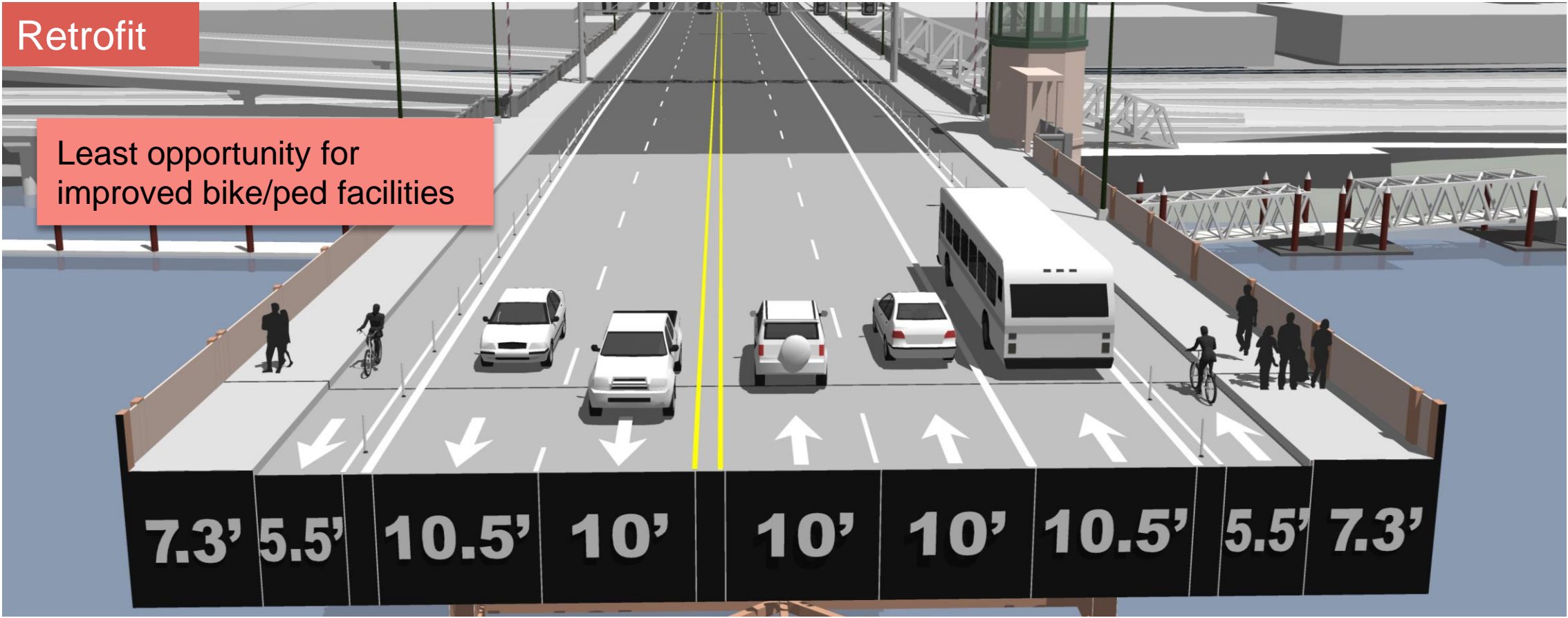
However, Retrofit generates lower GHG emissions due to shorter construction and use of fewer new construction materials.

ALTERNATIVES:

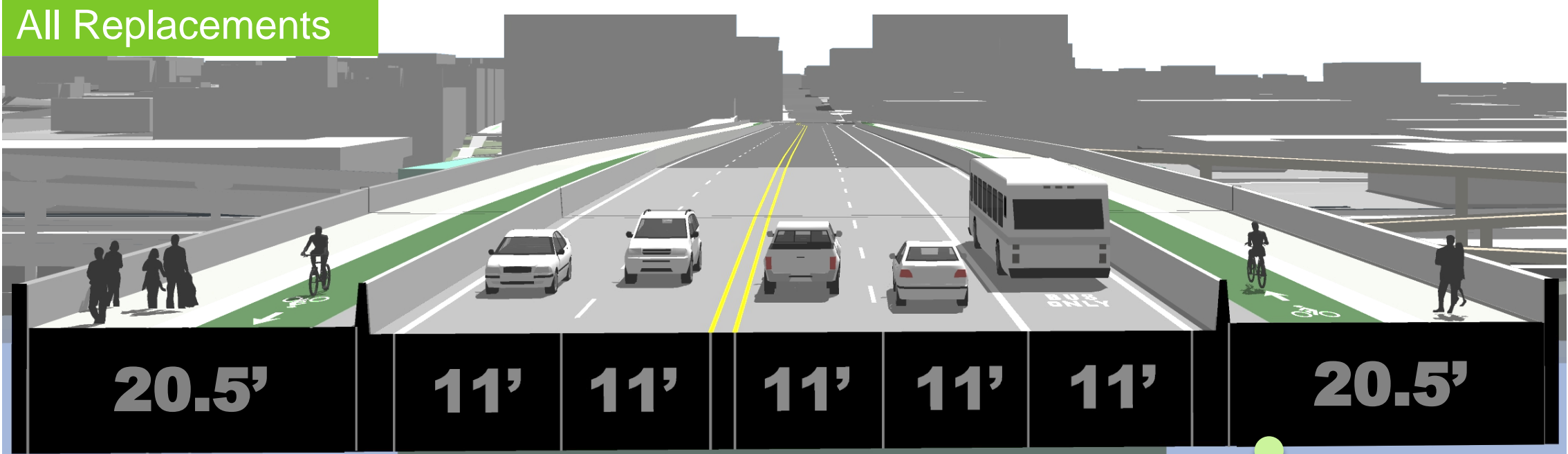
-  RETROFIT
-  SHORT SPAN
-  LONG SPAN
-  COUCH EXTENSION

Retrofit

Least opportunity for improved bike/ped facilities

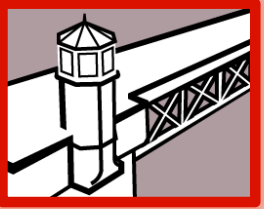

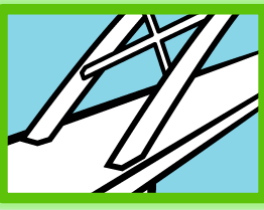



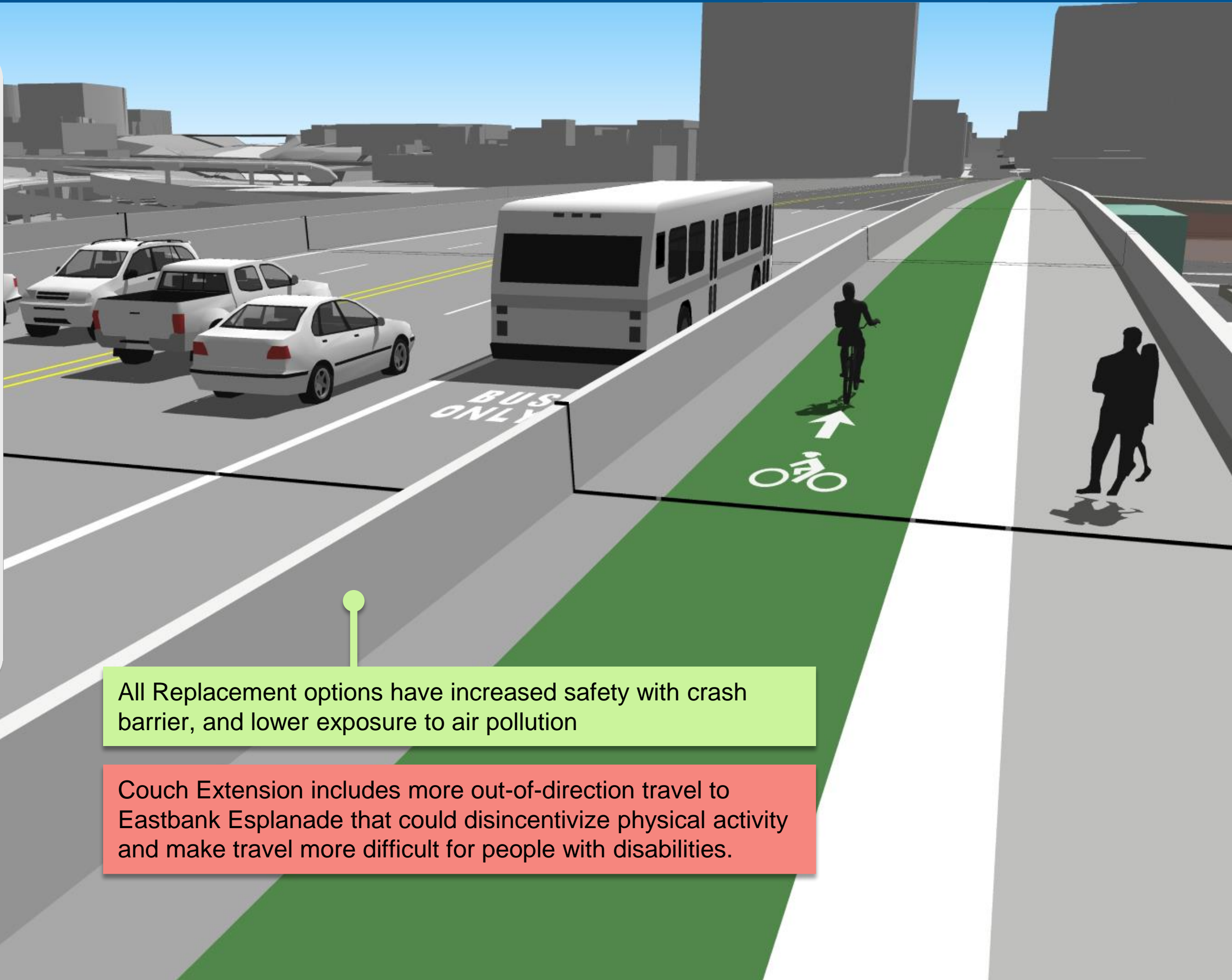
All Replacements



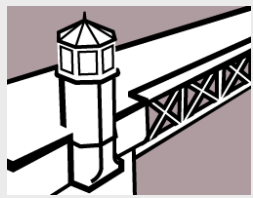
Replacements add approximately 8' to width of bike/ped facilities on each side of bridge

ALTERNATIVES:

-  RETROFIT
-  SHORT SPAN
-  LONG SPAN
-  COUCH EXTENSION



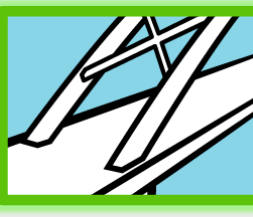
ALTERNATIVES:



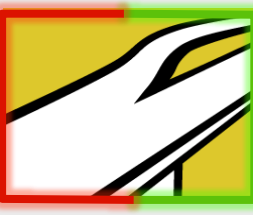
RETROFIT



SHORT SPAN



LONG SPAN

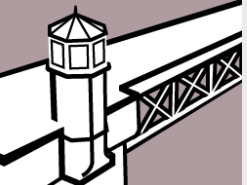

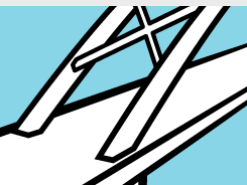



COUCH EXTENSION

All Replacement options have increased safety with crash barrier, and lower exposure to air pollution

Couch Extension includes more out-of-direction travel to Eastbank Esplanade that could disincentivize physical activity and make travel more difficult for people with disabilities.

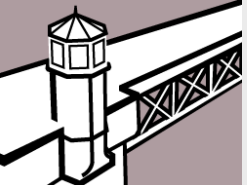
ALTERNATIVES:

- 
RETROFIT
- 
SHORT SPAN
- 
LONG SPAN
- 
COUCH EXTENSION


Smoother access for large westbound trucks and vehicles.



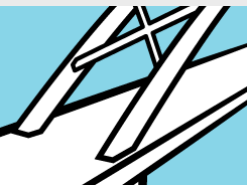
ALTERNATIVES:




RETROFIT



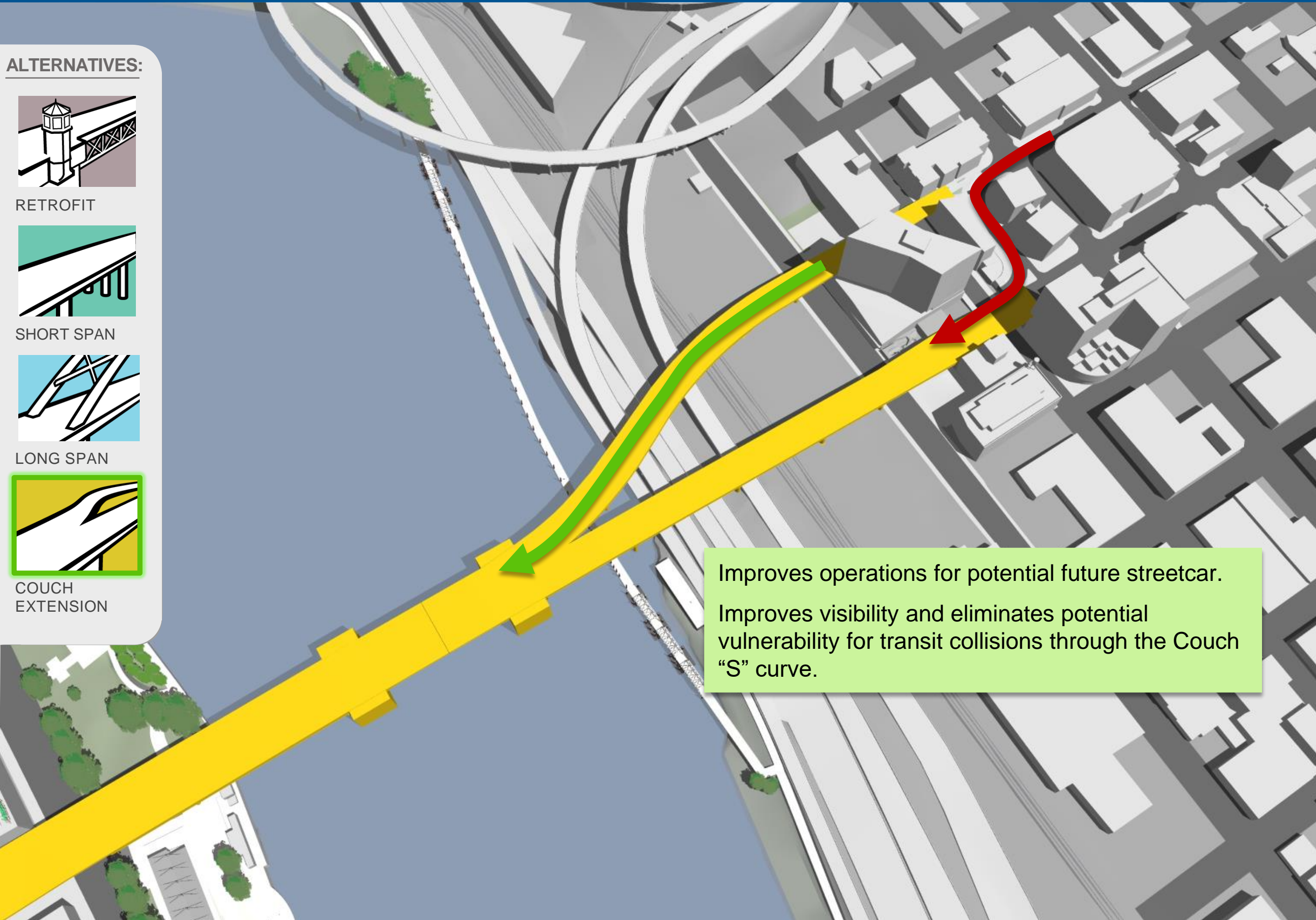
SHORT SPAN



LONG SPAN

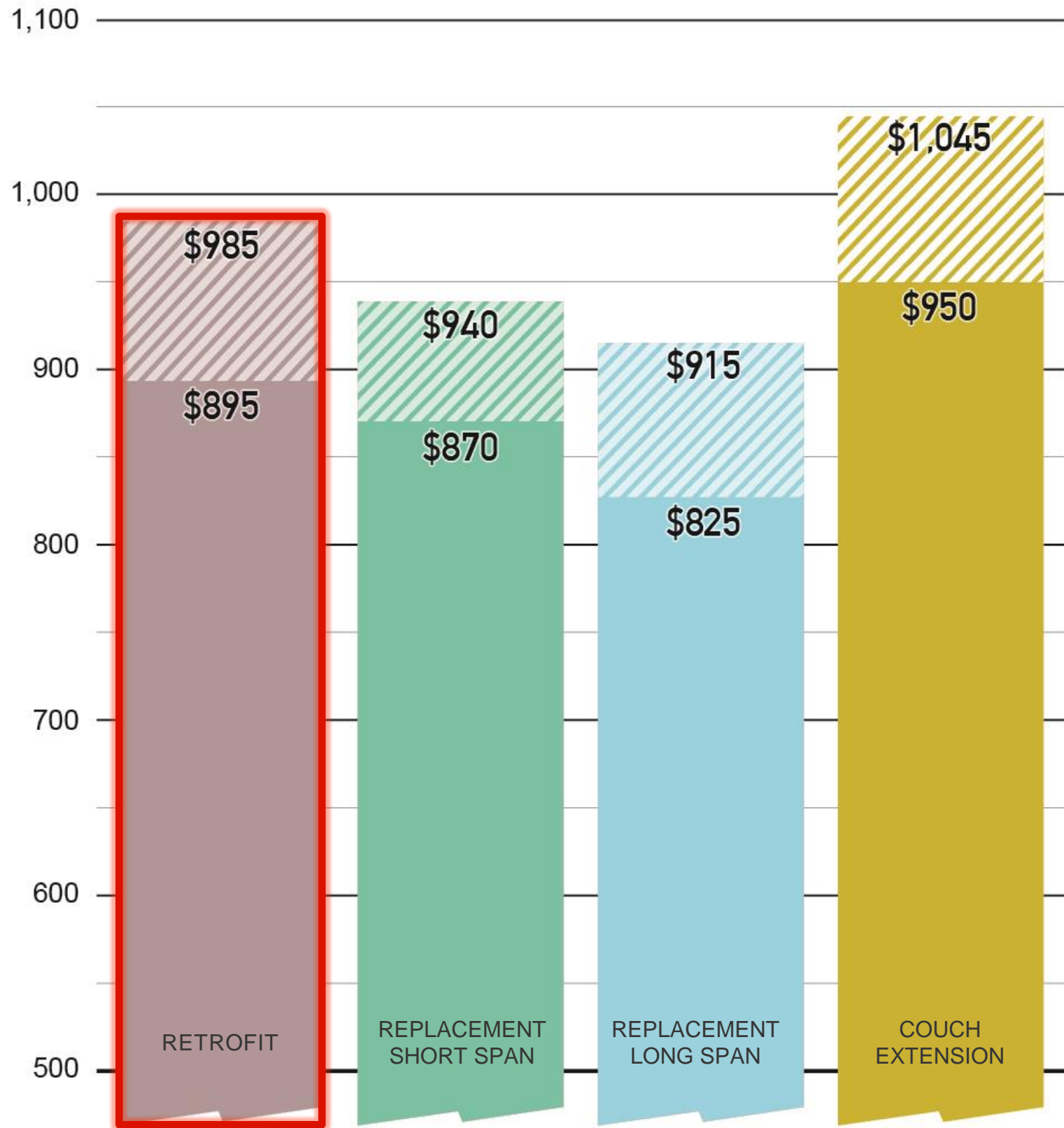


COUCH
EXTENSION



Improves operations for potential future streetcar.
Improves visibility and eliminates potential vulnerability for transit collisions through the Couch "S" curve.

PROJECT COST (Million USD)

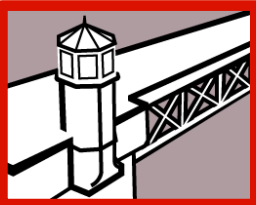


Retrofit construction cost comparable to Short Span Replacement due to extensive retrofit work to meet seismic standards.


Highest maintenance cost due to age of bridge.

 = Add'l cost for Temporary Bridge During Construction
Numbers shown represent high end of range for Temp bridge options


ALTERNATIVES:




RETROFIT



SHORT SPAN

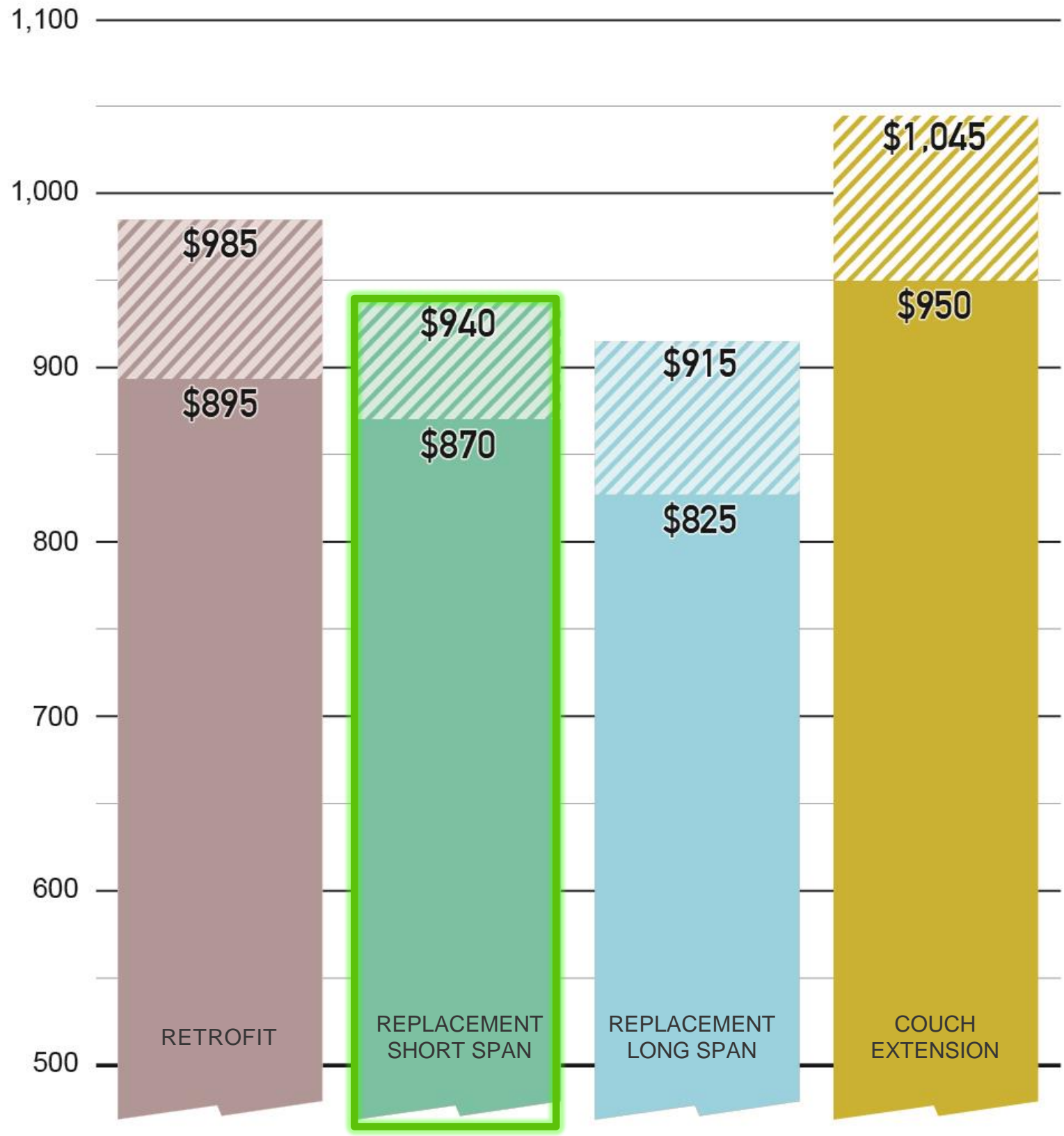


LONG SPAN



COUCH EXTENSION

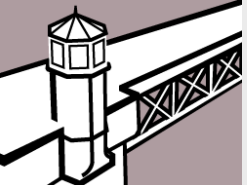

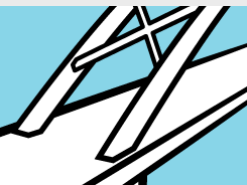

PROJECT COST (Million USD)



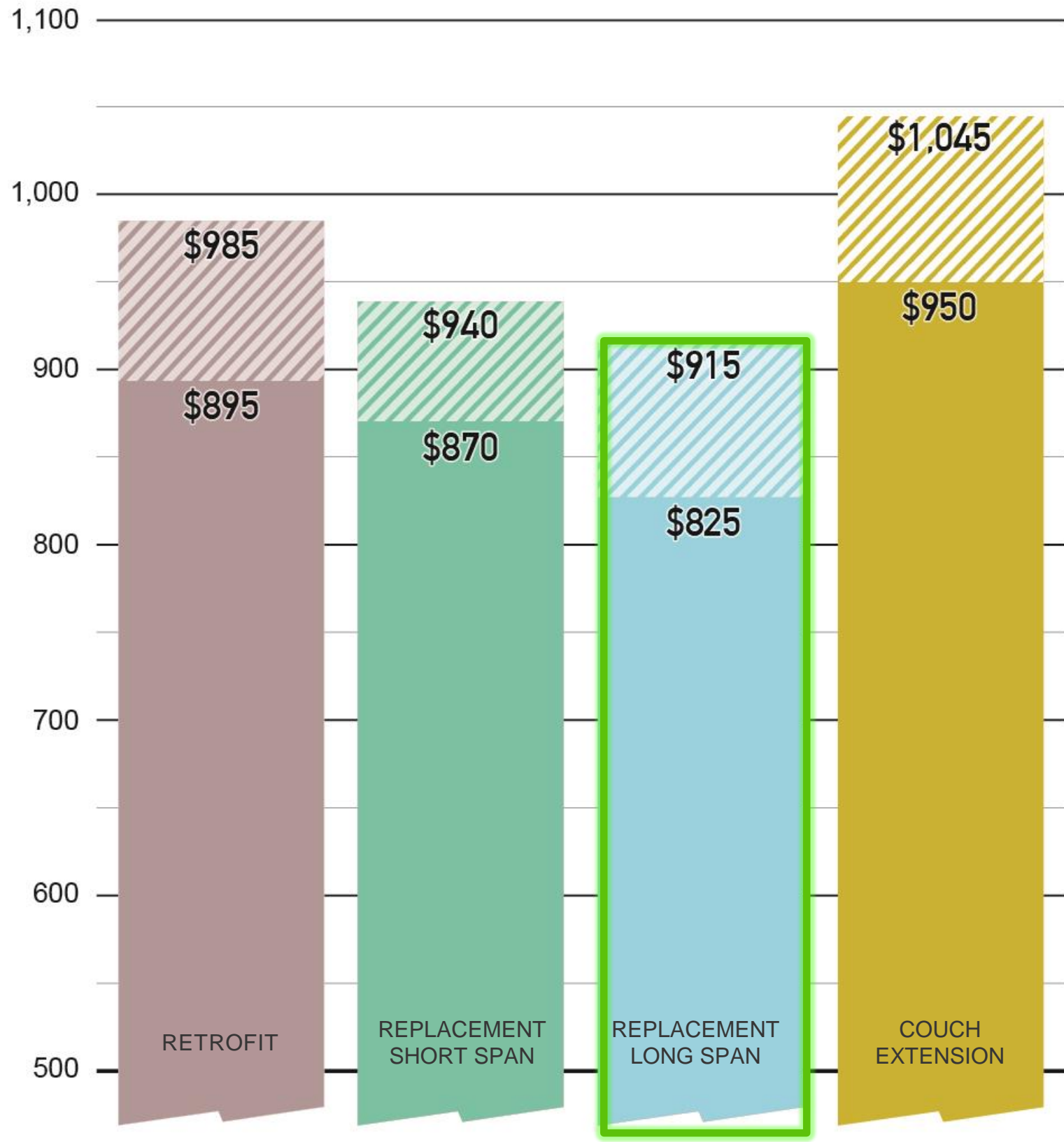
Short Span replacement has least long term maintenance cost.

 = Add'l cost for Temporary Bridge During Construction
Numbers shown represent high end of range for Temp bridge options

ALTERNATIVES:

-  RETROFIT
-  SHORT SPAN
-  LONG SPAN
-  COUCH EXTENSION

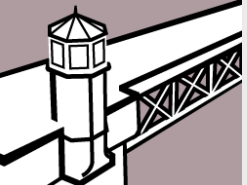



PROJECT COST (Million USD)



Long Span replacement has lowest construction cost due to minimizing geotechnical hazard mitigation, utility relocation, and foundation work

 = Add'l cost for Temporary Bridge During Construction
Numbers shown represent high end of range for Temp bridge options

ALTERNATIVES:

-  RETROFIT
-  SHORT SPAN
-  LONG SPAN
-  COUCH EXTENSION

PROJECT COST (Million USD)

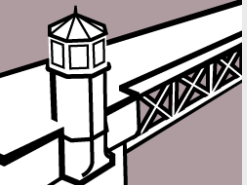


Couch Extension has highest construction cost due to greater material needs, geotechnical hazard mitigation, and ROW acquisition.


Also has highest long-term maintenance cost of the replacement options due to increased bridge area, structural members, and difficult access.

 = Add'l cost for Temporary Bridge During Construction
Numbers shown represent high end of range for Temp bridge options

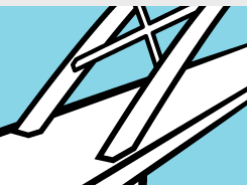
ALTERNATIVES:




RETROFIT



SHORT SPAN



LONG SPAN




COUCH EXTENSION


Traffic Options During Construction Key Differentiators



TRAFFIC DURING CONSTRUCTION:



FULL CLOSURE



TEMP. BRIDGE

KEY

The icons at left represent the traffic options being studied.

Green callout boxes show positive key differentiators

Red callout boxes show negative key differentiators

A green or red highlight around a traffic option indicates a positive or negative differentiator for that option.

Where applicable, these icons differentiate between the three types of temporary bridges reviewed:



ALL MODE
TEMP BRIDGE



BUS / PED / BIKE
ONLY



PED / BIKE
ONLY

Bridge graphic concepts are examples only.

TRAFFIC DURING CONSTRUCTION:



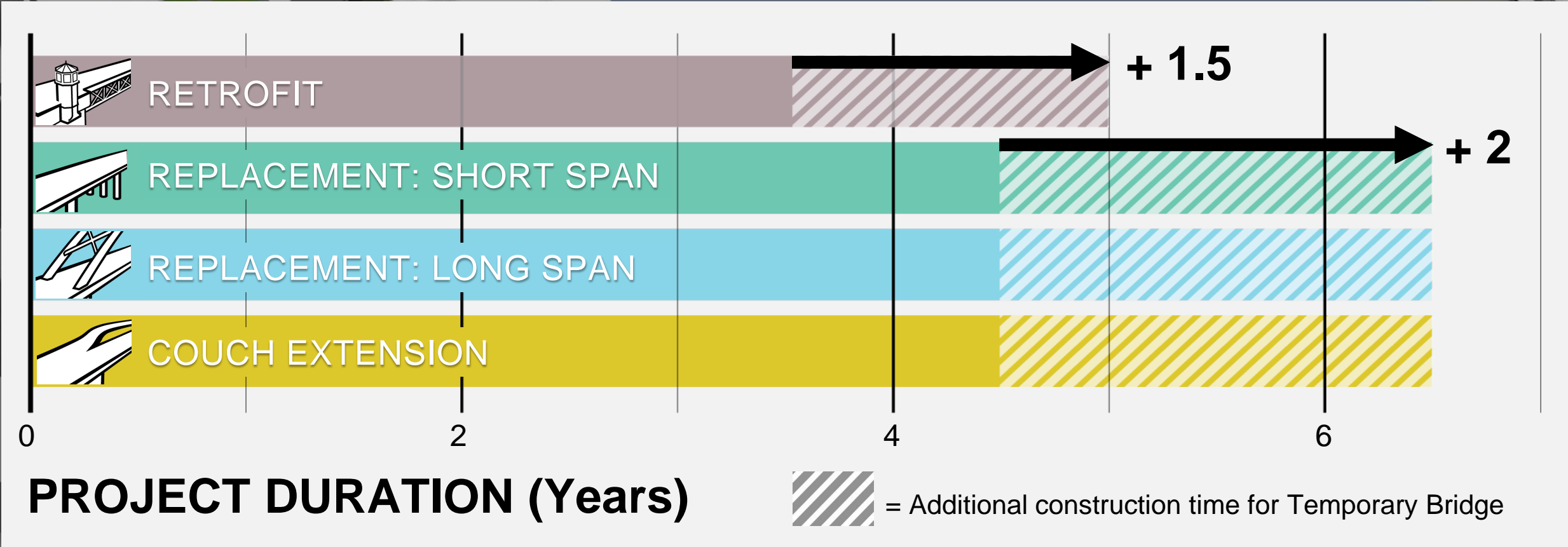
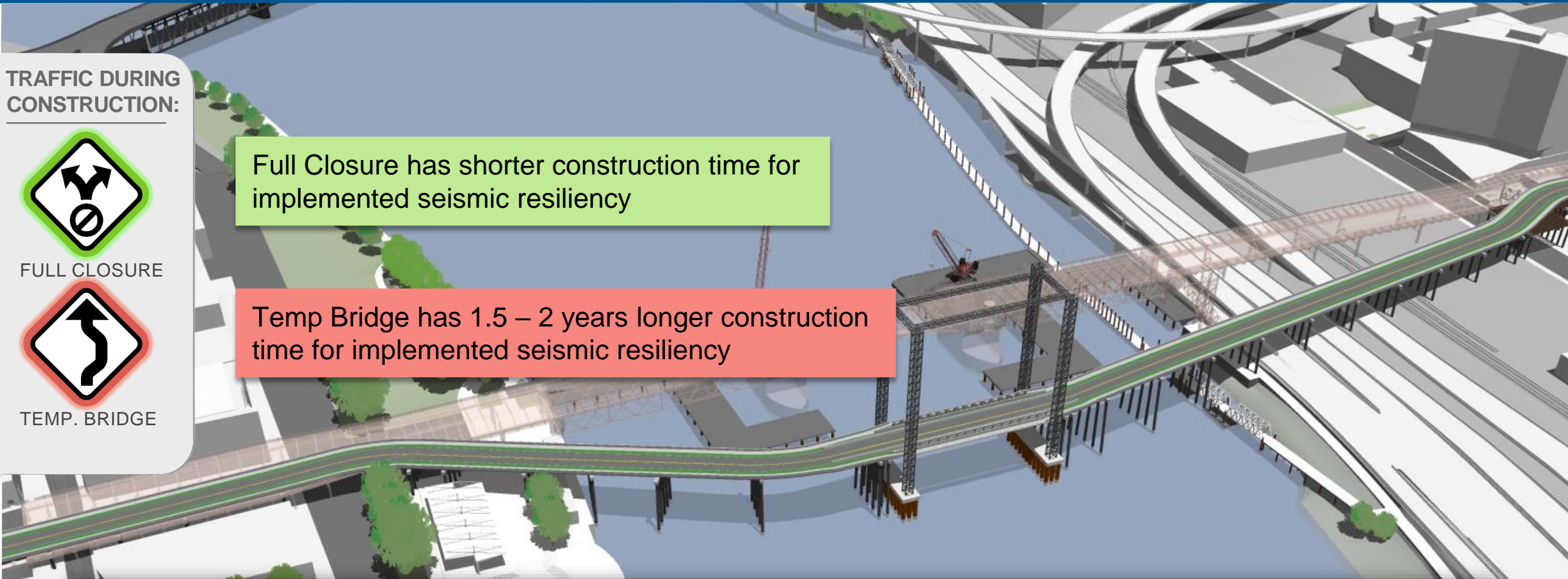
FULL CLOSURE




TEMP. BRIDGE

Full Closure has shorter construction time for implemented seismic resiliency


Temp Bridge has 1.5 – 2 years longer construction time for implemented seismic resiliency



TRAFFIC DURING CONSTRUCTION:



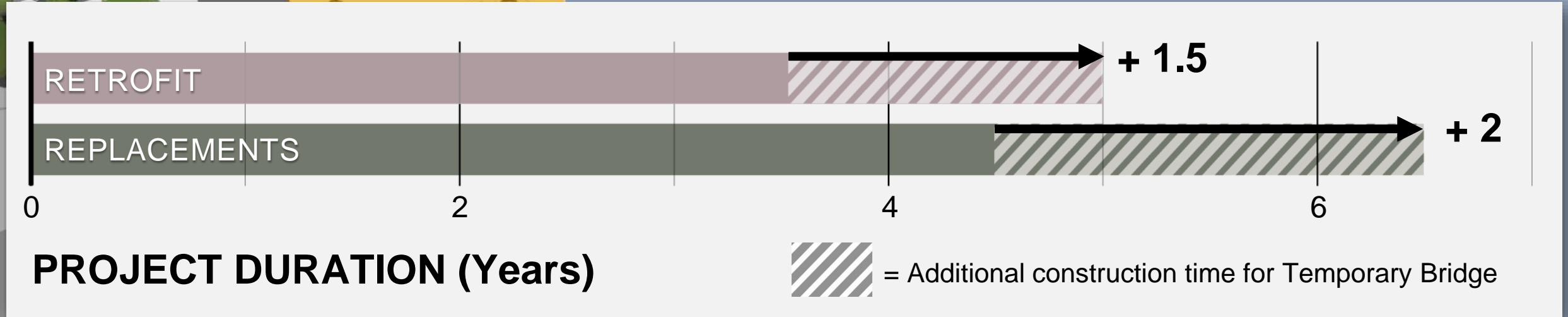
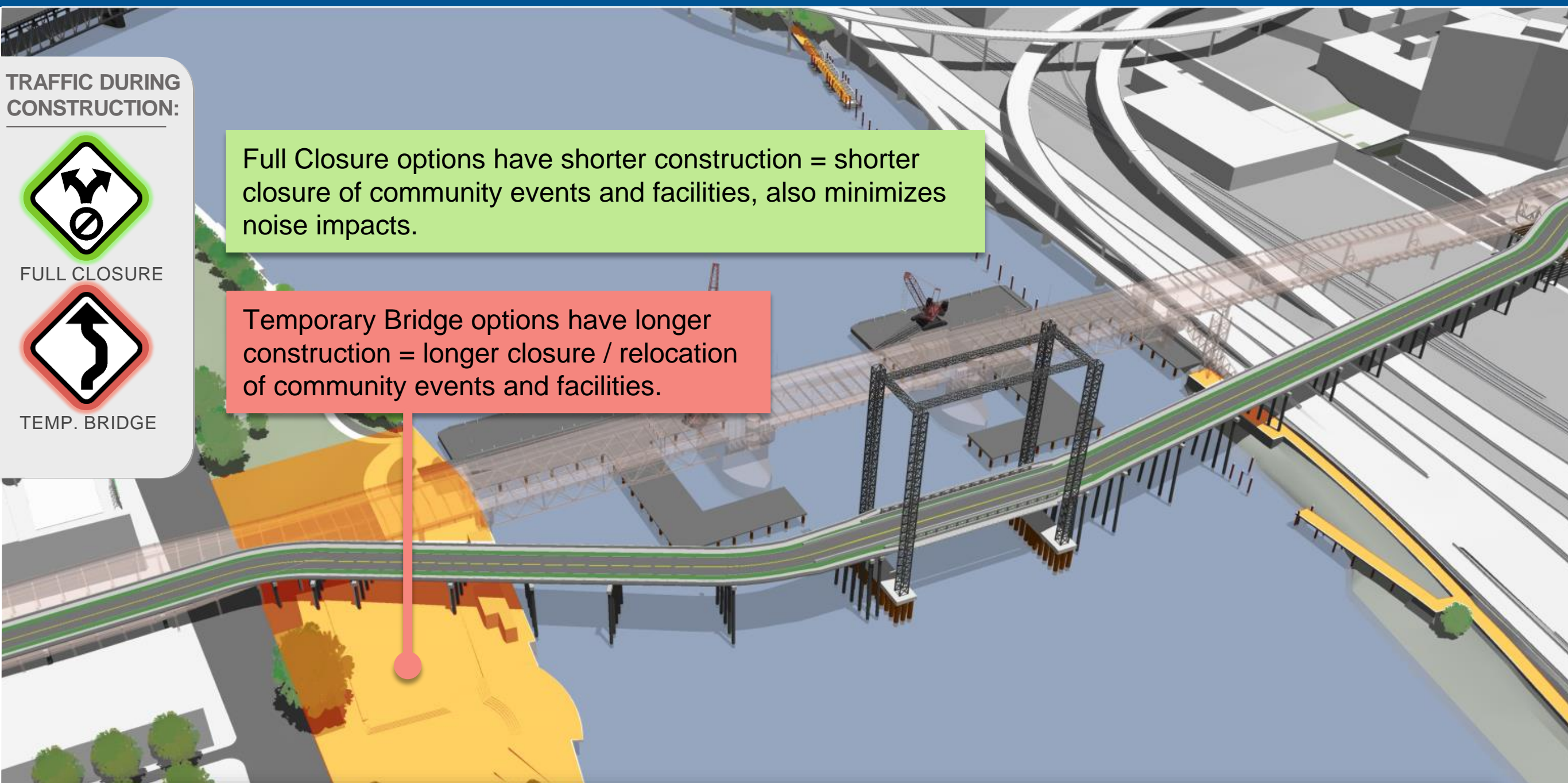
FULL CLOSURE



TEMP. BRIDGE

Full Closure options have shorter construction = shorter closure of community events and facilities, also minimizes noise impacts.

Temporary Bridge options have longer construction = longer closure / relocation of community events and facilities.



TRAFFIC DURING CONSTRUCTION:



FULL CLOSURE

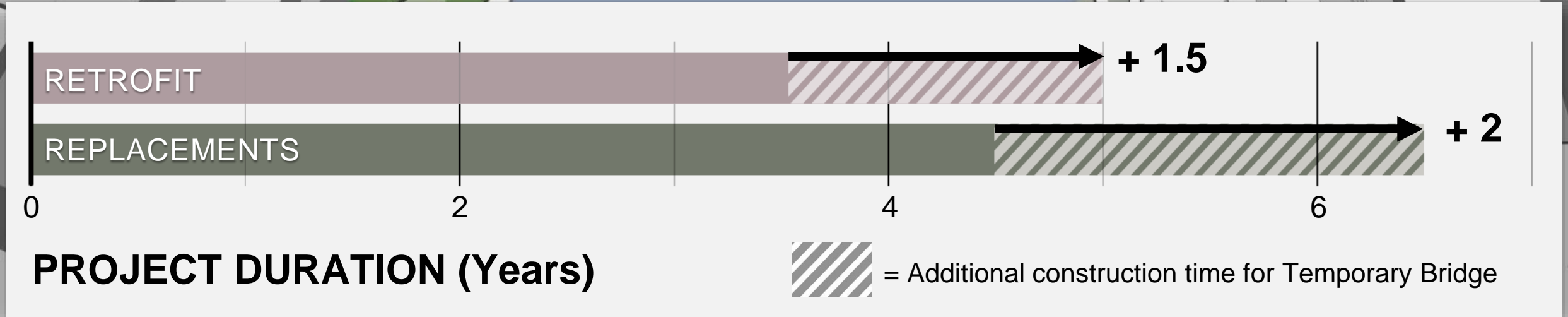
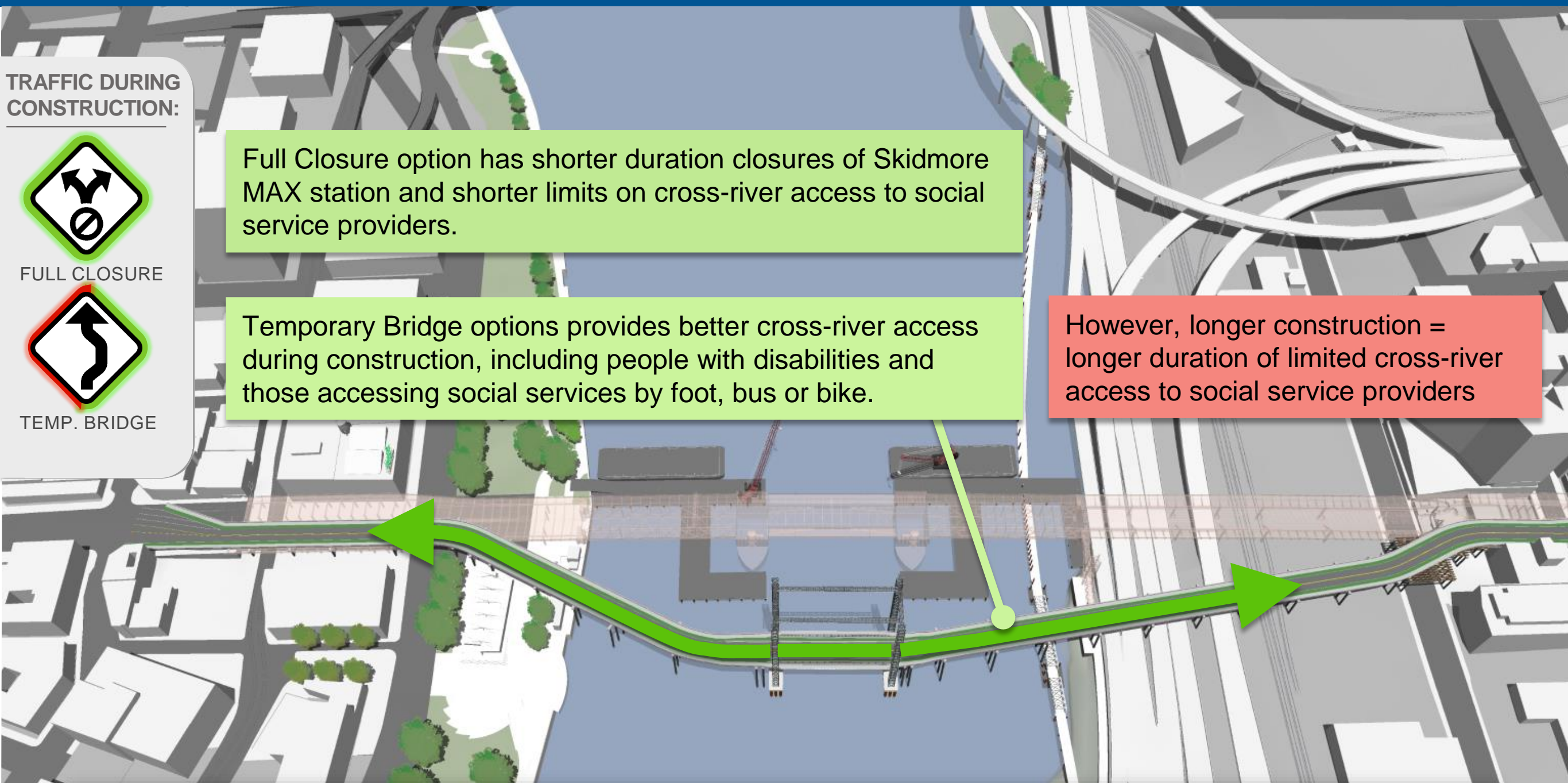


TEMP. BRIDGE

Full Closure option has shorter duration closures of Skidmore MAX station and shorter limits on cross-river access to social service providers.

Temporary Bridge options provides better cross-river access during construction, including people with disabilities and those accessing social services by foot, bus or bike.

However, longer construction = longer duration of limited cross-river access to social service providers



TRAFFIC DURING CONSTRUCTION:



FULL CLOSURE



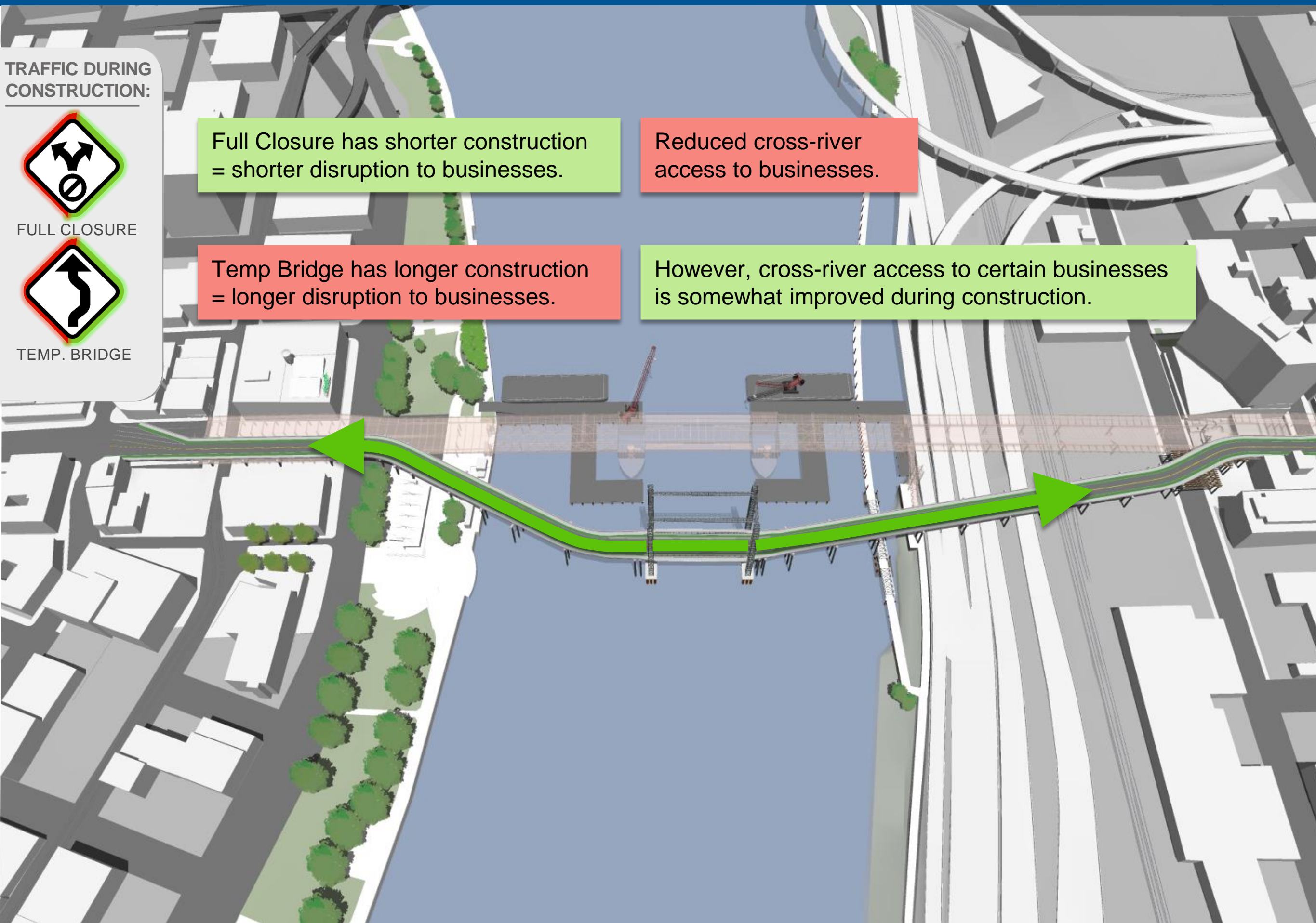
TEMP. BRIDGE

Full Closure has shorter construction = shorter disruption to businesses.

Reduced cross-river access to businesses.

Temp Bridge has longer construction = longer disruption to businesses.

However, cross-river access to certain businesses is somewhat improved during construction.



TRAFFIC DURING CONSTRUCTION:



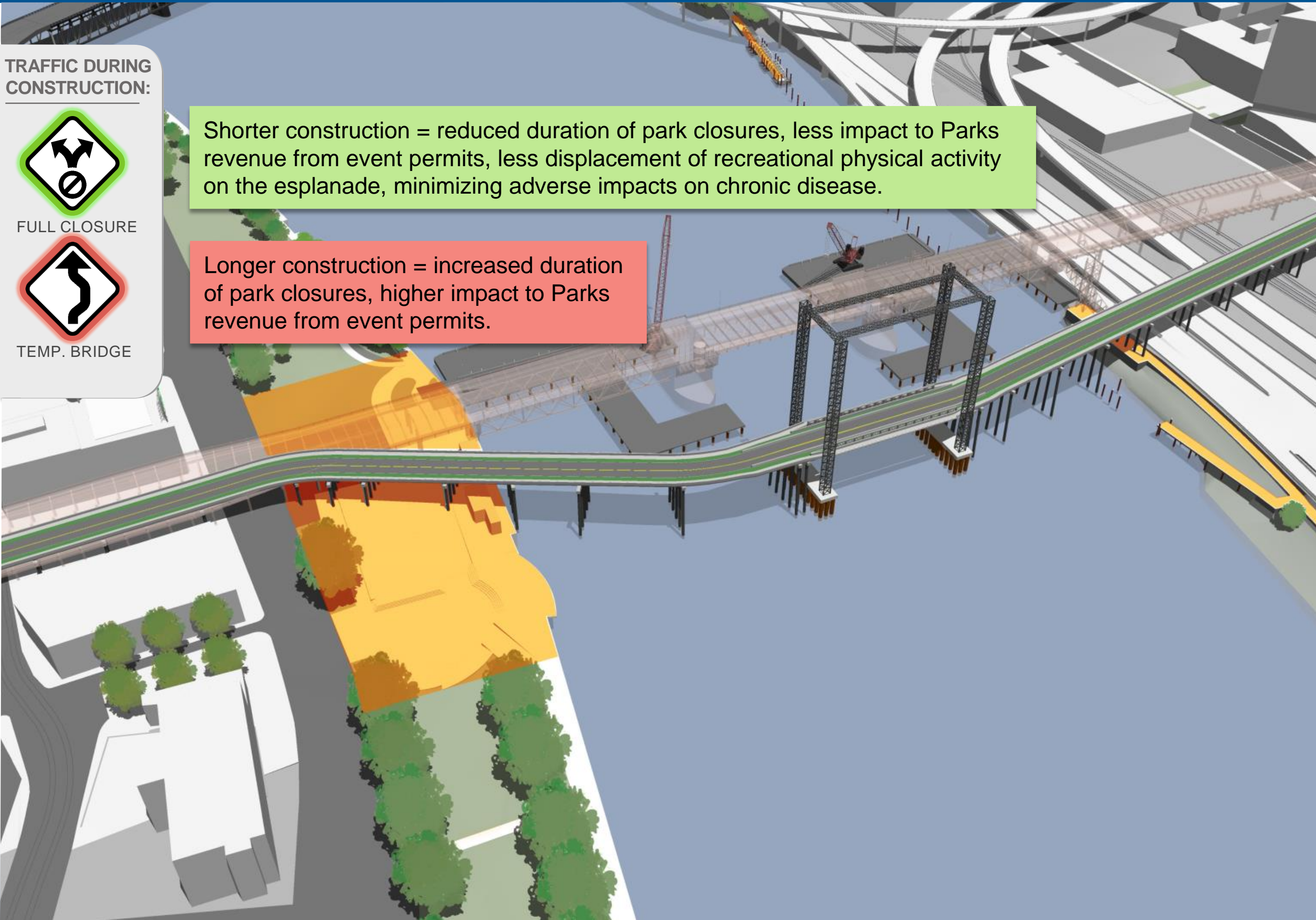
FULL CLOSURE



TEMP. BRIDGE

Shorter construction = reduced duration of park closures, less impact to Parks revenue from event permits, less displacement of recreational physical activity on the esplanade, minimizing adverse impacts on chronic disease.


Longer construction = increased duration of park closures, higher impact to Parks revenue from event permits.



TRAFFIC DURING CONSTRUCTION:



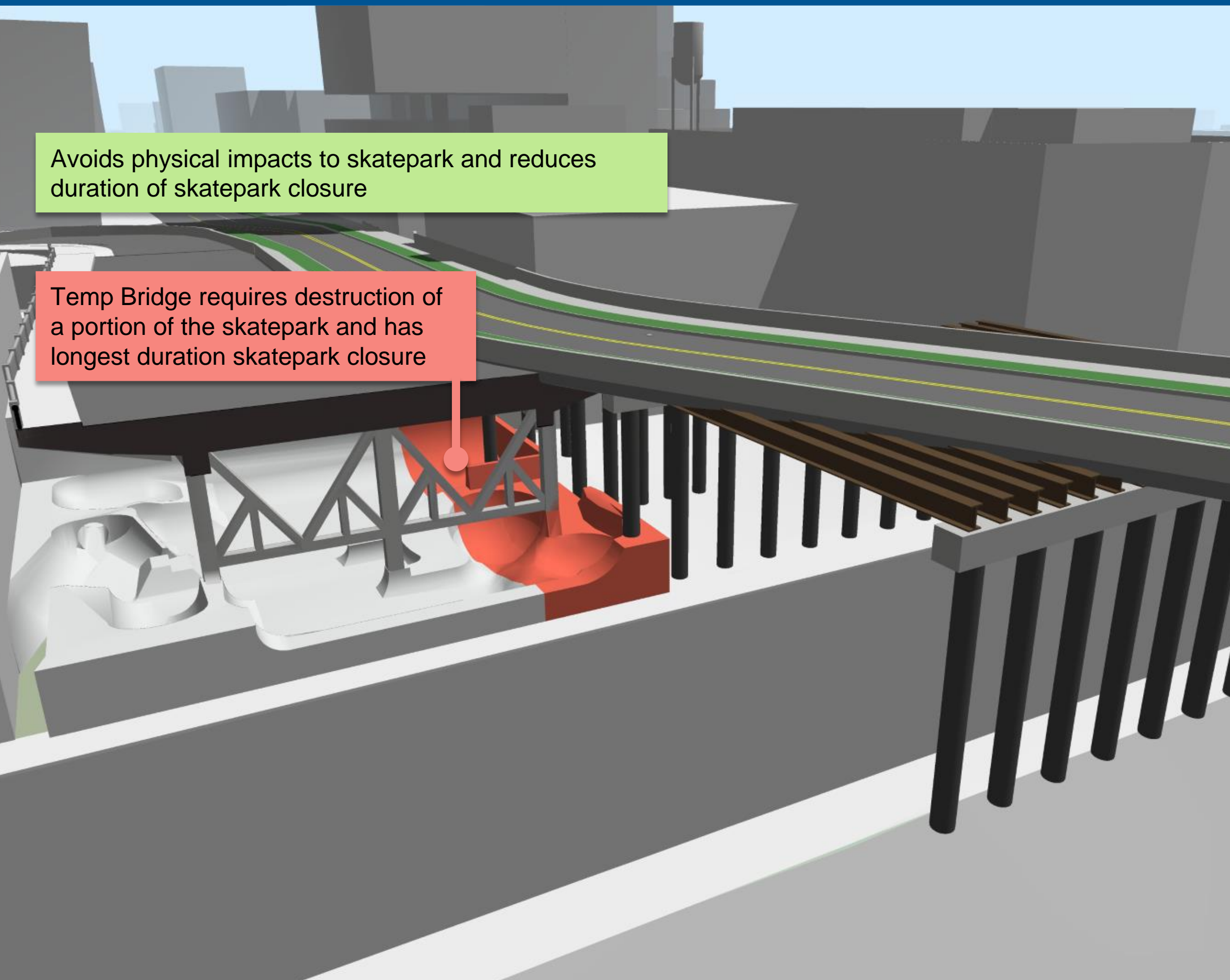
FULL CLOSURE



TEMP. BRIDGE

Avoids physical impacts to skatepark and reduces duration of skatepark closure

Temp Bridge requires destruction of a portion of the skatepark and has longest duration skatepark closure



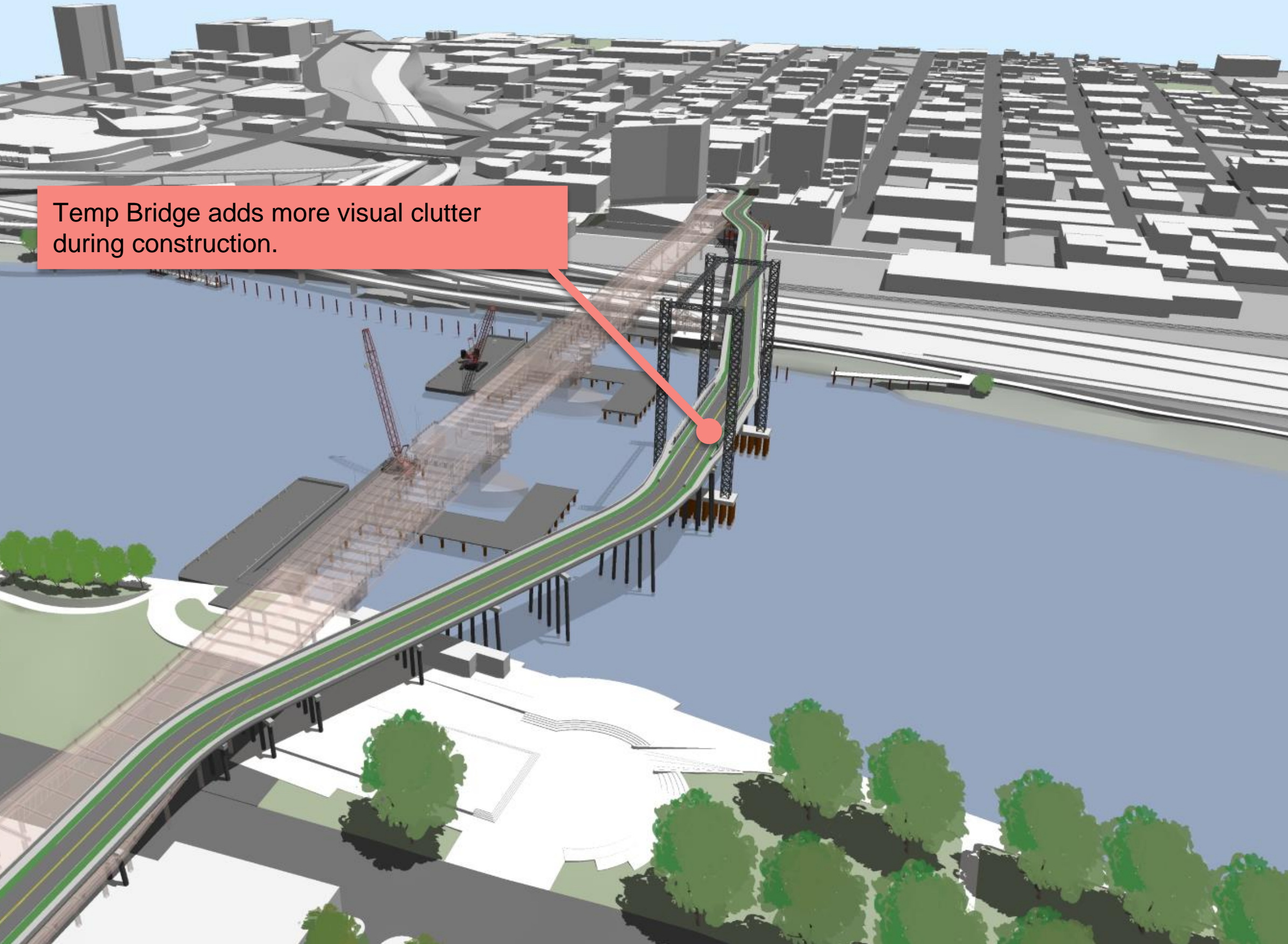
TRAFFIC DURING CONSTRUCTION:



FULL CLOSURE



TEMP. BRIDGE



Temp Bridge adds more visual clutter during construction.

TRAFFIC DURING CONSTRUCTION:



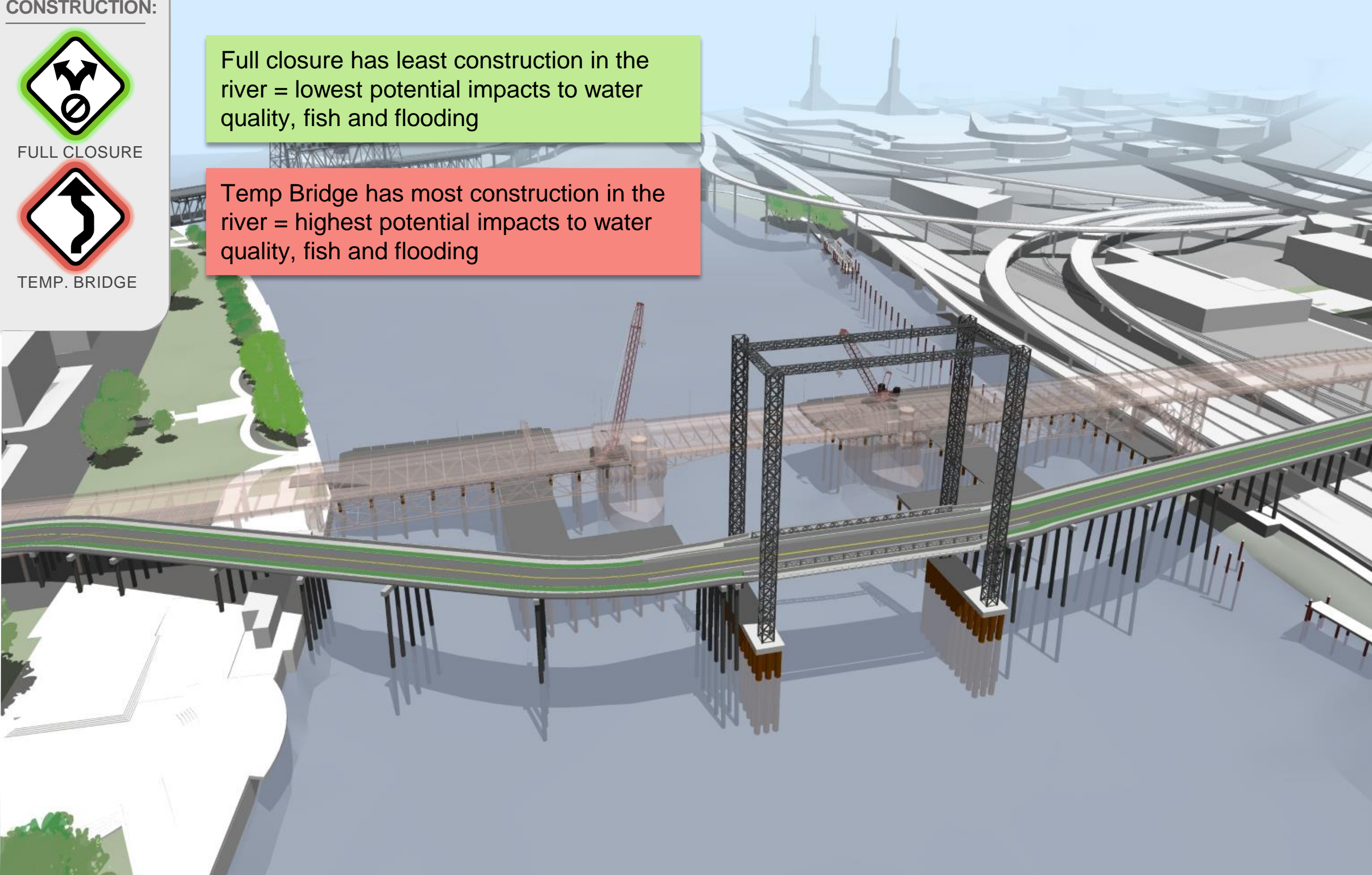
FULL CLOSURE



TEMP. BRIDGE

Full closure has least construction in the river = lowest potential impacts to water quality, fish and flooding

Temp Bridge has most construction in the river = highest potential impacts to water quality, fish and flooding



TRAFFIC DURING CONSTRUCTION:



FULL CLOSURE



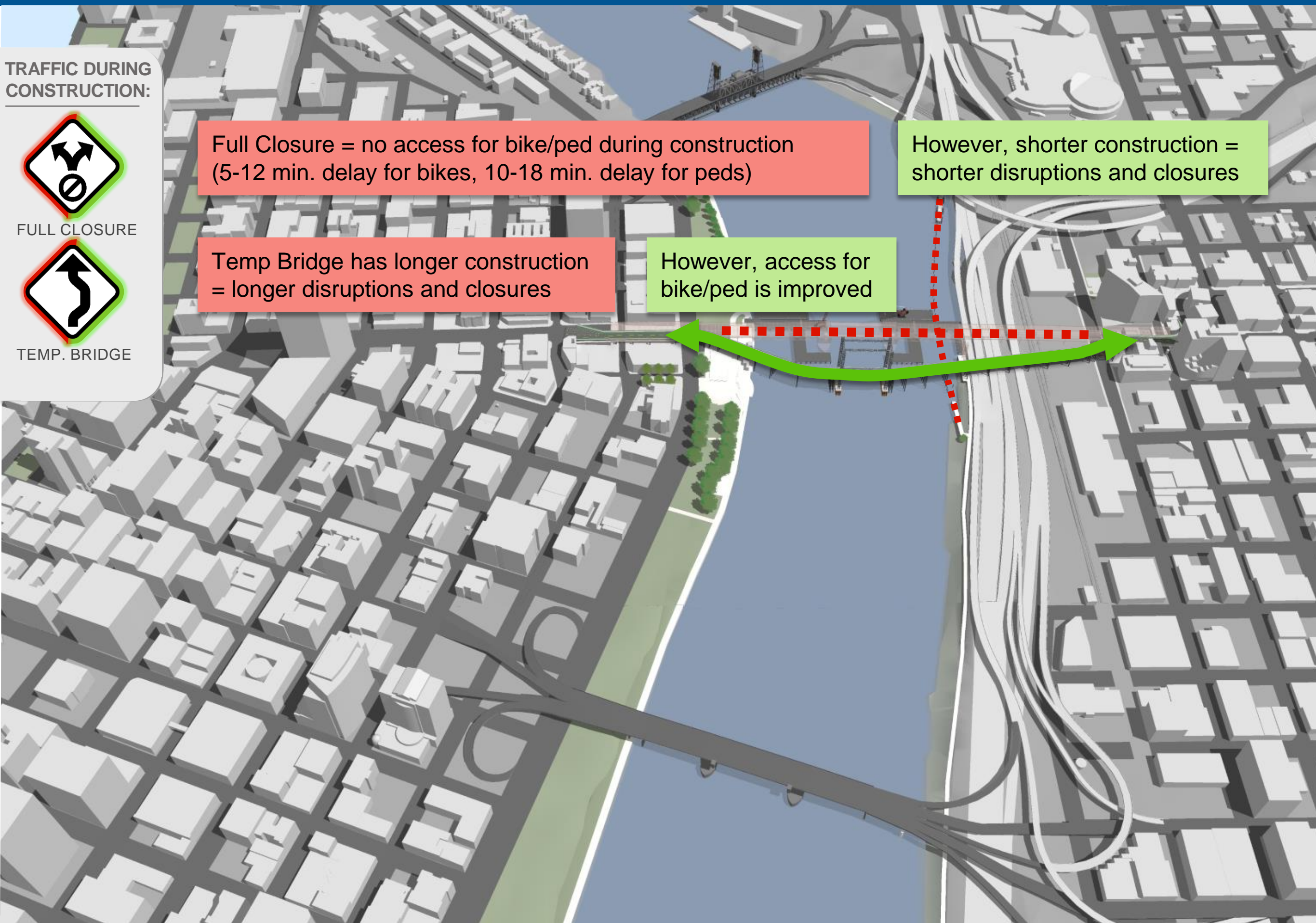
TEMP. BRIDGE

Full Closure = no access for bike/ped during construction (5-12 min. delay for bikes, 10-18 min. delay for peds)

However, shorter construction = shorter disruptions and closures

Temp Bridge has longer construction = longer disruptions and closures

However, access for bike/ped is improved



TRAFFIC DURING CONSTRUCTION:



FULL CLOSURE



TEMP. BRIDGE



ALL MODES



BUS / PED / BIKE



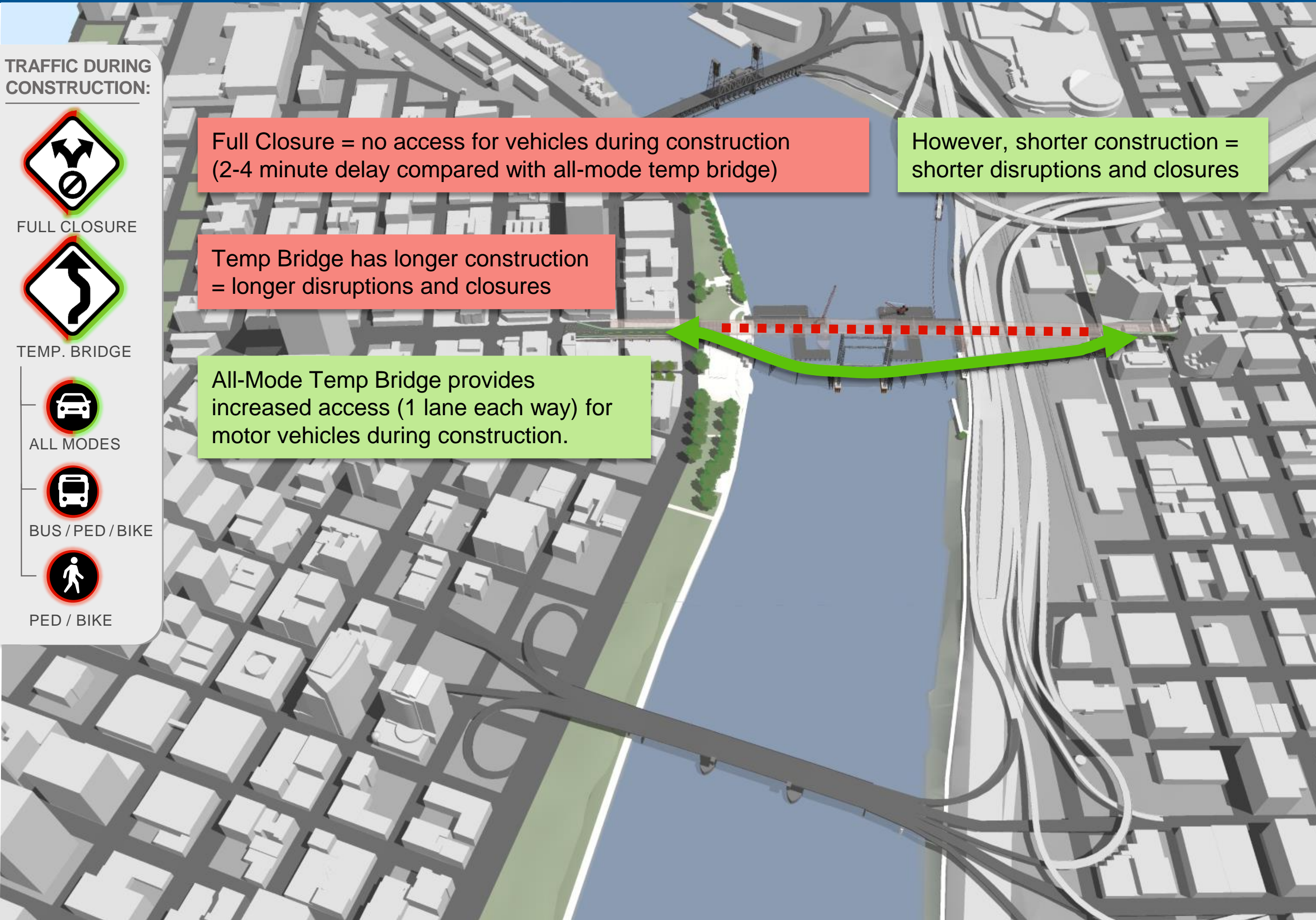
PED / BIKE

Full Closure = no access for vehicles during construction (2-4 minute delay compared with all-mode temp bridge)

However, shorter construction = shorter disruptions and closures

Temp Bridge has longer construction = longer disruptions and closures

All-Mode Temp Bridge provides increased access (1 lane each way) for motor vehicles during construction.



TRAFFIC DURING CONSTRUCTION:



FULL CLOSURE



TEMP. BRIDGE



ALL MODES



BUS / PED / BIKE



PED / BIKE

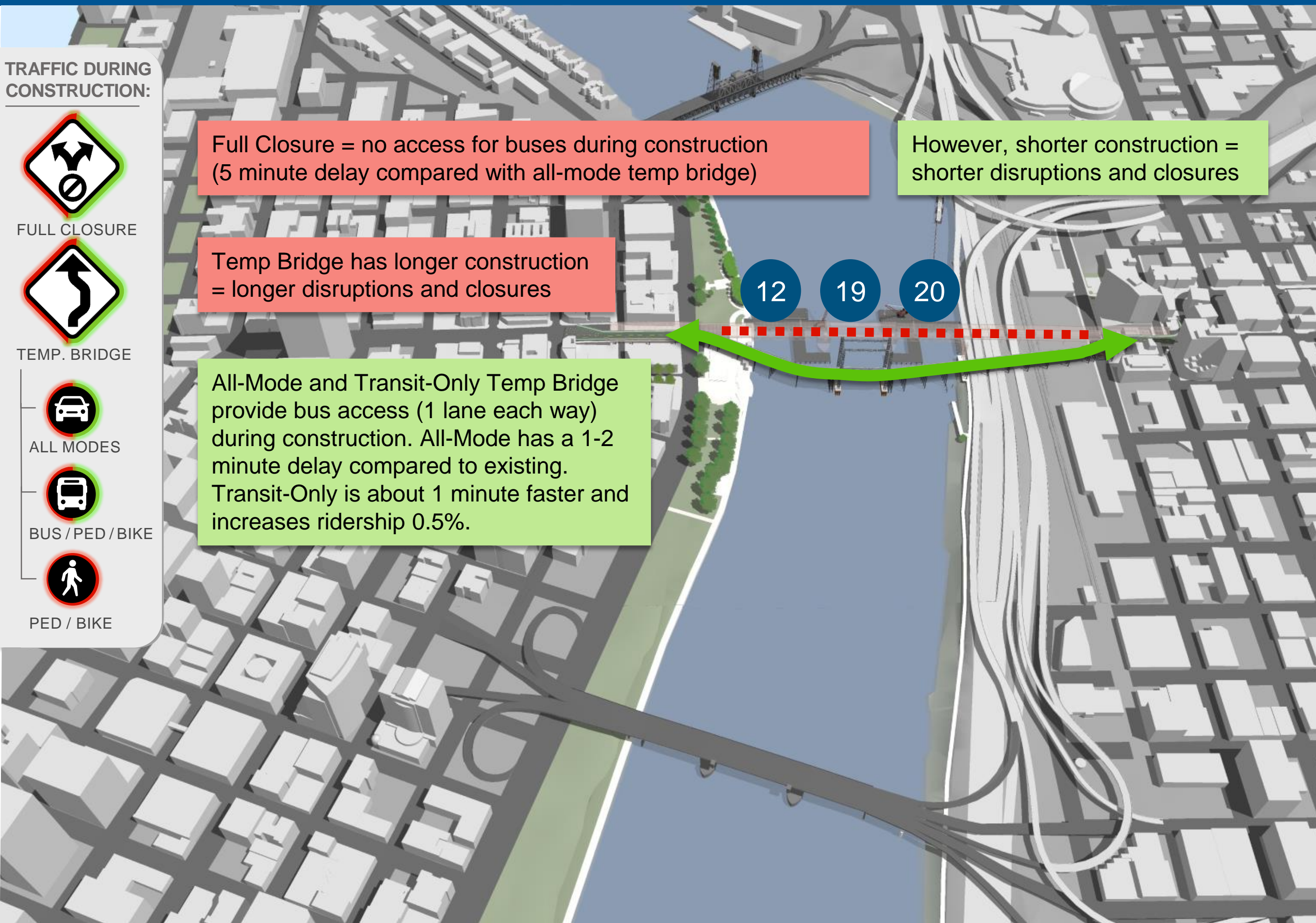
Full Closure = no access for buses during construction (5 minute delay compared with all-mode temp bridge)

However, shorter construction = shorter disruptions and closures

Temp Bridge has longer construction = longer disruptions and closures

12 19 20

All-Mode and Transit-Only Temp Bridge provide bus access (1 lane each way) during construction. All-Mode has a 1-2 minute delay compared to existing. Transit-Only is about 1 minute faster and increases ridership 0.5%.



PROJECT COST (Million USD)

TRAFFIC DURING CONSTRUCTION:



FULL CLOSURE



TEMP. BRIDGE



Full closure is least expensive option.

Temp Bridge adds:
\$60M for bike/ped option
\$90M for full-width options.

 = Add'l cost for Temporary Bridge During Construction
Numbers shown represent high end of range for Temp bridge options

Next Steps

Upcoming Meetings

- May 18, alternatives evaluation results
- June 15, recommendation on Preferred Alternative
- June – SASG
- August – Public Outreach on recommended PA
- October – Policy Group



Thank you!

