Inside Olympia — New I-5 Columbia River Bridge

https://tvw.org/2023/11/inside-olympia-new-i-5-columbia-river-bridge/



Program Administrator Greg Johnson was the guest on last night's "Inside Olympia" on @TVWnews, where he discussed the latest program updates with host @AustinJ_Reports.

Watch the full interview here:



Poor defense of IBR bridge

COMMON SENSE tells you that IBR's bridge with a -4% grade S-curve covered with rain, snow, or black ice will be deadly.

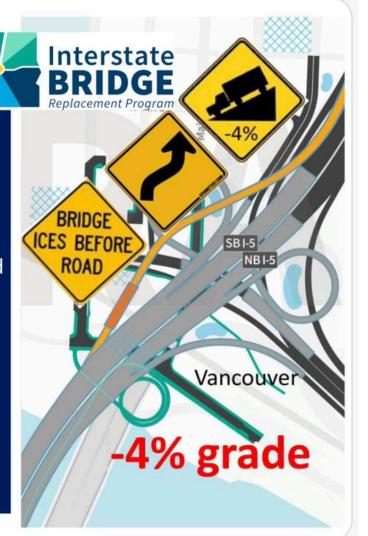
I don't believe IBR's claim that there are steeper Interstate bridges subject to ice.

Guidelines don't cancel laws of physics.

Inside Olympia Nov. 16, 2023

Greg Johnson, IBR Administrator

"One of the great things about DOT's is the there is a vast amount of experience across the country with ice and snow conditions. This will not be as some critics have said one of the steepest bridges in the country. They are many other bridges that are steeper than this. We will be building within Federal Administration design guidelines, so this will not be an exceptionally dangerous bridge because of the height."



IBR's false promise of a safe bridge

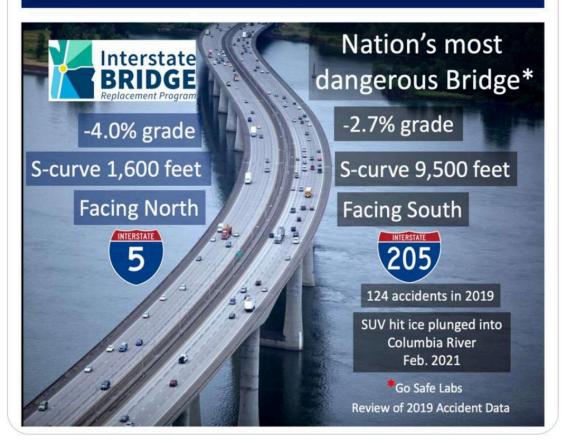
6 miles upriver the I-205 Bridge is the nation's most dangerous bridge. IBR's bridge will be more dangerous, steeper, with a tighter S-curve, and black ice that will frequent its north face.

Immersed Tunnel safer with environmental benefits



"We will be building within Federal Administration design guidelines, so this will not be an exceptionally dangerous bridge because of the height"

Inside Olympia Nov. 16, 2023



Bob Ortblad @BOrtblad · Nov 7

Letter Clark County Today: "This unnecessary deadly design is criminal negligence"

https://www.clarkcountytoday.com/opinion/letter-this-unnecessary-deadly-design-is-criminal-negligence/







Myth: The new bridge will be dangerously steep and unsafe for users.

Fact.

While the previous planning effort identified a grade of just under 4% for a 116-foot clearance bridge design, the IBR program has not reached that level of design and final road grades have not been confirmed. It is not unusual to have highway grades at 4% or steeper. In both Oregon and Washington there are stretches of interstate highway that feature grades steeper than 5%.

As designs progress, the program will ensure that any design accounts for the safety of all modes of travel and will meet or exceed all local, federal, and state safety and design standards.

IBR "Facts" are false and misleading

There are no Interstate Bridges with a 4% grade that experience snow and ice.

Highway grades steeper than 5% cannot be compared to a bridge grade. Bridges freeze before roads.

Design standards do not make a bridge safe.

Bob Ortblad @BOrtblad · Nov 4

Great question at yesterday's Bi-state Legislative Committee meeting. IBR did not have a good answer.

Does the IBR plan to build a station over the Hurley Tower?

Dozen elevators to serve 344 passage MAX car?

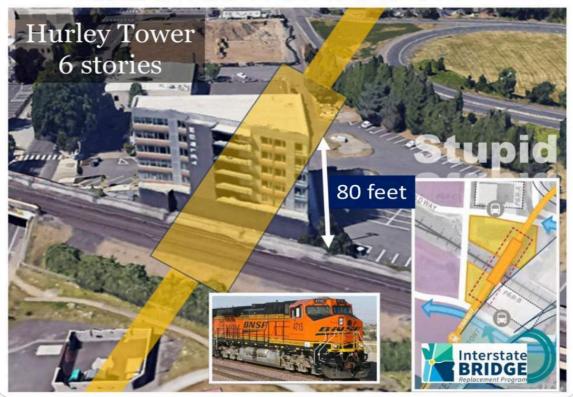
Elevators serve both sides of BNSF tracks, downtown & waterfront?



Bi-state Legislative Committee Meeting

Senator Lynda Wilson

"We have plans to build a transit station 80 feet in the air?"











The Urbanist @UrbanistOrg · Nov 4

Some unique Puget Sound transit planning ideas are being exported down to Vancouver via state transportation bodies.

Good point! I have not seen any 8 story high light rail station. A tunnel station would be so much easier/faster to access. Same applies to cycling lane.

Ryan Packer @typewriteralley · Nov 4

It's becoming even more clear how out-of-the loop Washington and Oregon legislators are about their own bistate megaproject.

...

History Repeats

Much of cost increase on the Abernethy Bridge is due to 6 in-water drilled shafts that require an expensive oscillator that can only work in a brief 6-month fish window.

IBR plans to drill 124 in-water shafts with only a 4- month fish window, will cost DOUBLE?



In 1958 a Fraser River immersed tunnel was opened.

B.C. is building a new tunnel that has less environmental impact & costs no more than a bridge.

A Columbia River immersed tunnel will protect the environment for both people & fish.

Demand this alternative in Supplemental EIS.

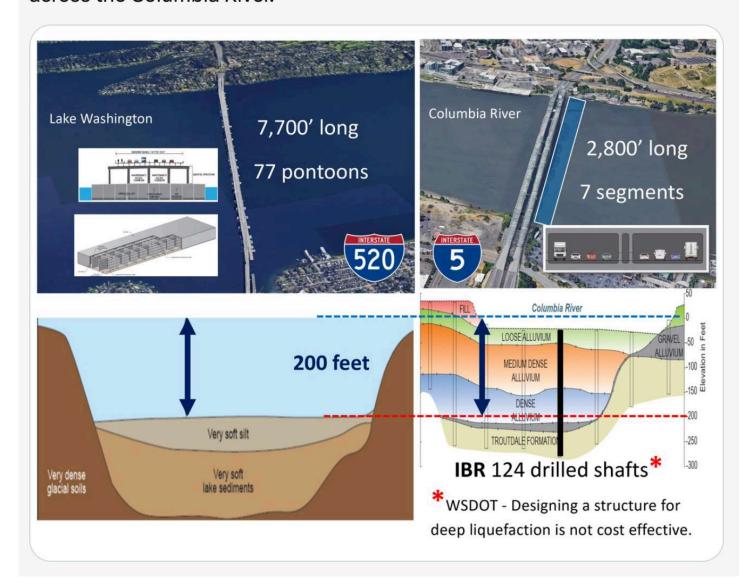


WSDOT's manual, not cost effective to design structures for deep liquefaction.

IBR plans shafts to overcome deep liquefaction.

77 pontoons float I-520 across Lake Washington.

7 sunken segments (similar to pontoons) can float (below river bottom) I-5 across the Columbia River.

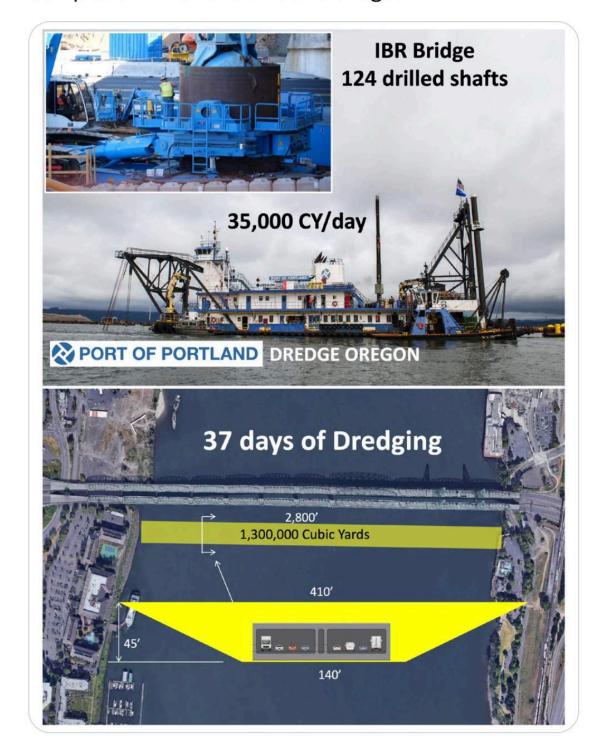


Bob Ortblad @BOrtblad · Nov 14

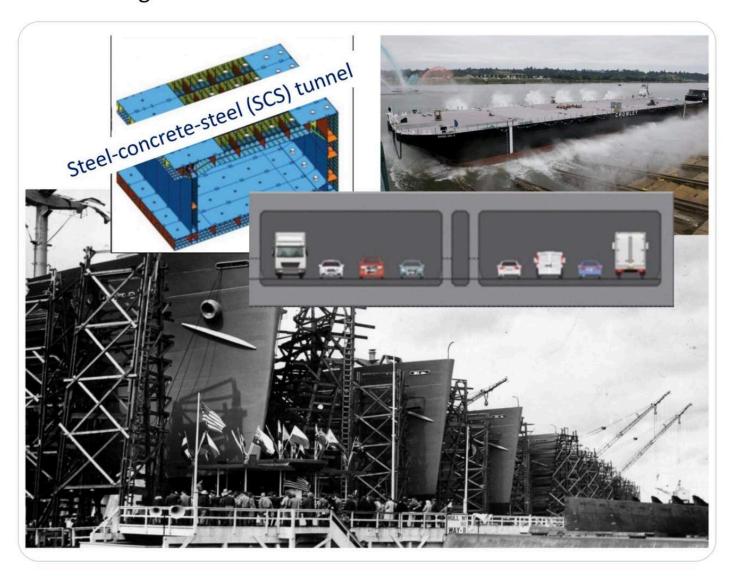
IBR's bridge needs 124 drilled shafts, risky, costly, extents construction from 10 to 16 years.

Buoyancy supports an immersed tunnel, no needs for shafts, dredging takes days.

About 7 tunnel segments can be built at multiple shipyards. Completion in half the time of a bridge.



Portland and Vancouver have a proud history of ship and barge building. An Immersed Tunnel will create hundreds of local shipyard jobs. The new S.F. Bay Bridge was fabricated in China and the new Tacoma Narrows Bridge was fabricated in Korea.





Myth vs. Fact

Myth: A tunnel can solve the Interstate Bridge transportation problems just as easily as a bridge.

Fact.

A tunnel cannot be feasibly built within the footprint of I-5 without eliminating important connections to Hayden Island, downtown Vancouver and SR-14. It also comes with significantly more operational, environmental and historical resource impacts, and would cost more than a replacement bridge.

For more information about the suitability of an immersed tube tunnel, view the Tunnel Concept Assessment [□].

IBR "Facts" are false and misleading

Immersed tunnel fits better than a than a bridge in I-5 footprint and makes better connection to SR-14, Hayden Island, and downtown Vancouver. It also has less historic and environmental impacts than a bridge.

IBR's "Tunnel Concept Assessment" is worthless, misleading by 4 million cubic yards.

\$60 billion maybe required to prevent salmon extinction.

IBR's large piers will provide hydraulic shadows plus a 90-yard-widebridge light shadow that is ideal for predatory fish that eat millions of juvenile salmon yearly.

No hydraulic or light shadows with an Immersed Tunnel.



https://www.seattletimes.com/seattle-news/times-watchdog/huge-spike-in-costs-to-help-salmon-could-derail-wa-transportation-budget/

Huge spike in costs to help salmon could derail WA transportation budget.

IBR's bridge shadow & pier eddies create an ideal environment for salmon predators.

Tribes & sport fishermen should support a free-flowing river & Immersed Tunnel.





IBR claims an Immersed Tunnel will be twice the cost of a High Bridge, \$1.64 - \$2.45 billion bridge & approaches.

Columbia River crossing is 2,700 feet.

Antwerp at 4,200 feet, 50% longer, is building a 6-lane & bike path Immersed Tunnel for \$680 million.

Right-size

@i5bridgenow





Suggest Sen. Marko Liias also visit Gothenburg, Sweden the worlds' most sustainable city and drive through the city's two immersed tunnels. An I–5 Columbia River immersed tunnel is the best IBR solution. Can be built rapidly, see video.

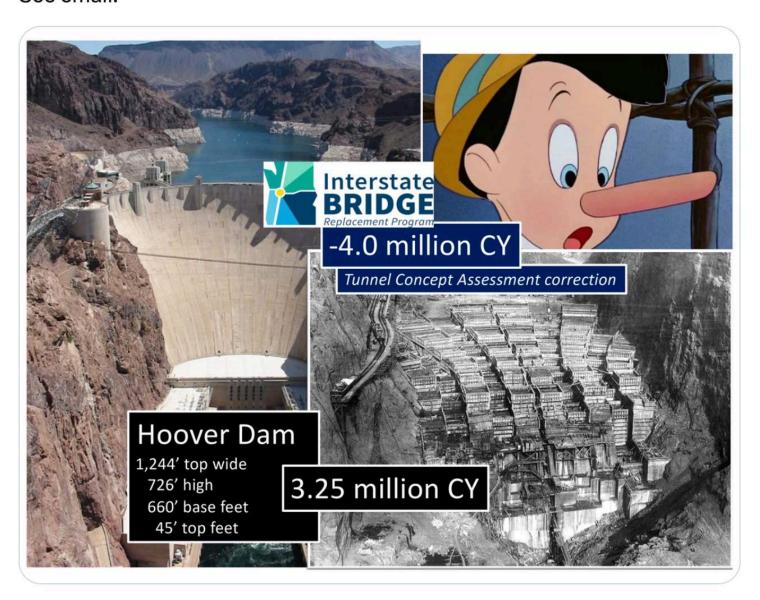
https://www.youtube.com/watch?v=JC4mRlgwXU0



IBR's Tunnel Concept Assessment correction

A Public Disclosure forced a correction of wildly inflated excavation estimate from 7.9 to 3.9 million CY. This 4 million CY correction is larger than the volume of Hoover Dam.

IBR denies deception, claims incompetence. See email.





IBR admits its immersed tunnel estimate of excavation & dredging 7.9 million CY is incorrect.

No small error, correct estimate could be much smaller, 2 million CY. Paid \$100,000, 17 engineers signed this report. Incompetence disqualified an immersed tunnel.

Email Sept. 8, 2023
Interstate Bridge Replacement Program Team the Public is stupid email
To: Robert Ortblad

Good afternoon,

Thank you for reaching out to the Interstate Bridge Replacement Program Team the Public is stupid email insulting email

Unbelievable insulting email

Thank you for reaching out to the Interstate Bridge Replacement Program Team the Public is stupid email

IBR thinks the Public is stupid email

Unbelievable insulting email

questions about the Cross Section areas. We are responding back to address your specific questions but want to be clear that this does not change that the tunnel still does not best address the needs of the I-5 bridge and the corridor.

Our team of engineers uses a variety of software tools, such as InRoads that you referenced. We have investigated your inquiry and were able to confirm an issue with the model. Duplication occurred in the model where some excavation quantities were counted more than once. We are working on making the correction in the report and uploading an updated version.

However, upon reviewing what you provided, it appears your representative diagram and excavation calculations at 87+00 do not account the construction need for laying back slopes during excavation (and the resulting surface property impacts), or the alternative to have temporary structural walls which come with an extremely high cost. As you know, one of these options must be accounted for to prevent the sides of the trench from caving in during construction of an ITT.

We conduct continuous quality checks and assurances to catch any errors that may arise with third party software and appreciate you flagging this. Quantity errors like this are not uncommon during the development of conceptual work. In a situation where plans are being constructed, the increasing level of detail completed as work advances would address potential calculation errors before moving to future steps.

As we have extensively detailed and documented, a tunnel still results in out-of-direction travel, cannot tie into existing connections, potentially causes safety concerns for active transportation, has significant environmental impacts, and has a higher estimated cost. While this error does result in a change in the quantity of excavation of material, it does not change the decision, reached with agency partners, not to pursue a tunnel as a solution for the I-5 corridor as the multiple factors considered remain true.

We appreciate your understanding.

Sincerely,

Interstate Bridge Replacement program

Communications Team

Tunnel Concept Assessment

Revision 2

Prepared by WSP USA and Parametrix Cost \$100,000

IBR's email explains their incompetence: Translation:

"Our team of engineers uses a variety of software tools ... errors that may arise with third party software .."

We don't know how our software works.

"Duplication occurred in the model where some excavation quantities were counted more than once."

We only doubled 4 million cubic yards to 8 million cubic yards.

"Quantity errors like this are not uncommon during the development of conceptual work."

We make errors all the time, no big deal.

"In a situation where plans are being constructed, the increasing level of detail completed as work advances would address potential calculation errors before moving to future steps."

We would have found the error in the distance future.

"While this error does result in a change in the quantity of excavation of material, it does not change the decision, reached.."

We are just going to ignore our massive error.

Transparency?

With "No Public Notice" the IBR just issued Revision 2 of "Tunnel Concept Assessment". Told for two years that excavation quantities were incorrect & misleading, the IBR admits a 100% & 4 million CY error.

Error is closer to 300% & 6 million CY

IBR retract report

Table 1. Preliminary Tunnel Excavation Quantities

Location	Upstream Alignment	Downstream Alignment	Tunnel
Hayden Island (on land)	1,800,000 yd³	2,200,000 yd³	Concept
Columbia River (in water)	3,800,000 yd³	4,000,000 yd³	Assessment
Vancouver (on land)	2,300,000 yd³	2,700,000 yd³	July 14, 2021
Total	7,900,000 yd -4,000,000 8,900,000 yd³ -4		000 correction
	200%	200%	

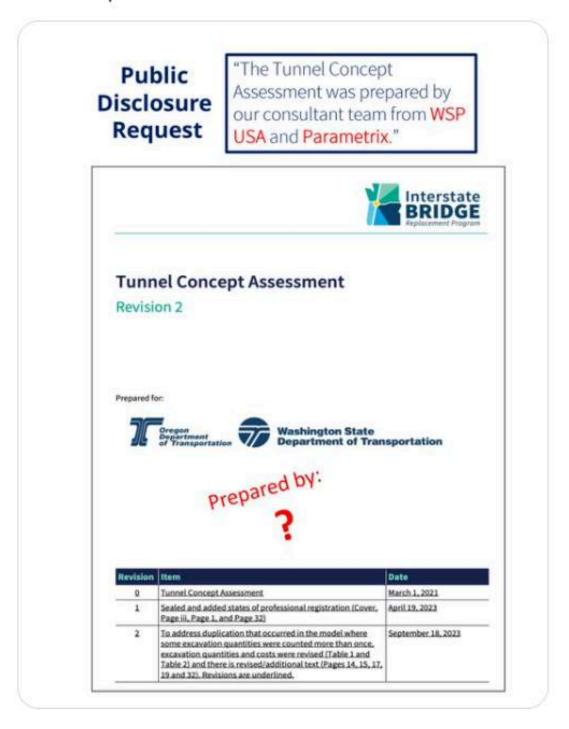
Table 1. Preliminary Tunnel Excavation Quantities

Location	Upstream Alignment	Downstream Alignment	Revision 2
Hayden Island (on land)	800,000 yd ³	1,000,000 yd ³	Notice
Columbia River (in water)	2,100,000 yd ³	2,300,000 yd³	C Moria
Vancouver (on land)	1,000,000 yd ³	1,100,000 yd ³	September 18, 2023
Total	3,900,000 yd³	4,400,000 yd³	•
	100%	100%	

Normally an engineering firm takes credit for its work.

Public Disclosure Request discovered that WSP & Parametrix prepared an incorrect and misleading "Tunnel Concept Report".

Report was issued three times without ether firm ever claiming authorship. Retract report & refund fee.



IBR's "Tunnel Concept Assessment" draft was unstamped and not legal for 21 months during which time it was used to disqualify an immersed tunnel alternative to eight cities and agencies.

Washington Administrative Code (WAC) 196-23-020 Preliminary documents must be stamped.



Not Legal for 21 months

Tunnel Concept Assessment

Issued

July 15, 2021

Draft - For Internal Review Only

Tunnel Concept Assessment

Stamped April 19, 2023

Revision 1

April 19, 2023





CONCEPTUAL - NOT FOR CONSTRUCTION

WAC 196-23-020

Preliminary documents must be stamped

Bob Ortblad @BOrtblad · Oct 31

IBR/WSDOT Accounting worse than Engineering?

After 45 days, WSDOT's cannot or will not give "Tunnel Concept Assessment" actual cost, or the number of hours billed by the P.E. that stamped the report.

Misleading report must be retracted and cost refunded.



WSDOT Public Disclosure Request

Sept 15, 2023

Cost of report?

Hours billed by Professional Engineer that stamped report?



"Billing to the state is provided as hours worked, and not per deliverable provided, so the cost for this specific report cannot be provided but was estimated at \$100K."



"There is no responsive record for specific hours" charged to the Tunnel Concept Assessment, Rob Turton's billing rate was \$411.59 at the time the assessment was released."

Bob Ortblad @BOrtblad · Oct 16

FTA want to fund affordable housing near transit stations.

IBR plans to build 1,270 parking spaces costing \$116,000,000.

These 6 acres better used for 900 apartments.

IBR's 1960's freeway & parking not attractive to Federal funding.



. . .

Bob Ortblad @BOrtblad · Nov 16

Outrage over destruction of the Seattle Hotel to build a parking garage saved historic Pioneer Square.

IBR's Parking Rides will add traffic & blight to downtown Vancouver. Land near transit is more valuable for commercial & residential development.

@FTA_DOT @USDOTFHWA @trimet

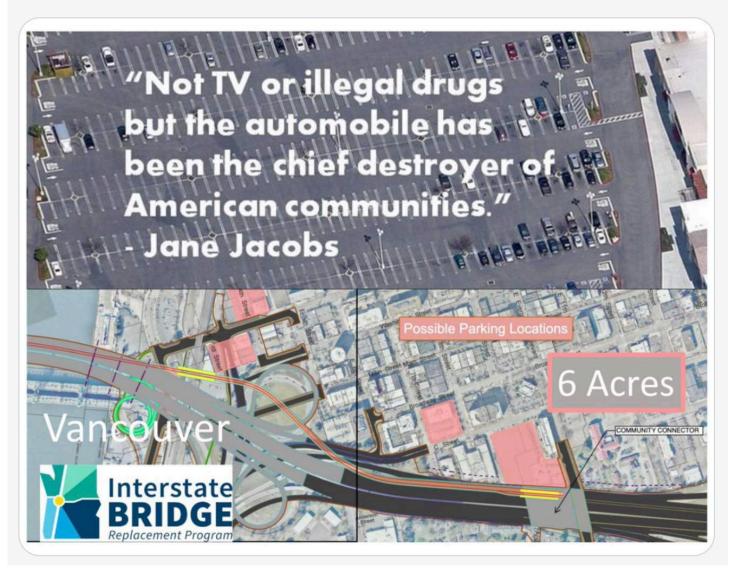


Vancouver should build a downtown for people, not cars.

IBR plans to build 1,270 parking spaces costing \$116,000,000.

These 6 acres better used for 900 apartments.

IBR's 1960's freeway & parking not attractive to Federal funding.



IBR's just submitted a USDOT Mega grant application.

Planned Vancouver parking lots are almost dumber than a high bridge with a -4% grade on an often-icy S-curve.

Immersed Tunnel, innovative, safe, with environmental benefits and more attractive for Federal funding.



"Yes, the planet got destroyed.

But the IBR built
lots of car parking"

1,270 Parking Spaces: \$116 million plus land

