Large Infrastructure & Urban Context
review of human-scale perception & response

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"the belly of the beast"
changing use of urban lands
in a vehicle - on the ground
aesthetics . . or human functioning
Alaskan Way Viaduct, Seattle

Built in 1953; 110,000 ADT; 2001 earthquake

Replace structure or build tunnel?

Newspaper headlines!
Replace Structure!

- Two Options
  - double deck pre-stressed concrete girder
  - Extrados cable-stayed, concrete segmental
double deck
concrete girder

Extrados
cable-stayed
determine experiential spaces

Large Structures Design
human response & perceptions

1. physiology
quasi-experimental
measurable response
such as: heart rate, visual acuity, hearing capacity

paper 07-1842
Large Structures Design  
human response & perceptions  

2. perception  
self-report  
surveys, interviews, observations  
such as: comfort, safety, way-finding, affordances  

empirical evidence  
sound & noise - workers, children  
light & shadow - legibility, personal safety  
spatial configuration - wayfinding, spatial preference  
CPTED - crime prevention thru environmental design  
nature/tree benefits - stress, frustration, productivity
light & sound - WSDOT workshop sketch
place maker - WSDOT workshop sketch

place maker - Promenade Plantée, Paris
place maker - Holbeck, UK

companion uses - WSDOT workshop sketch
scale relationship - WSDOT workshop sketch

companion uses - Promenade Plantee, Paris
Pine St. Convention Center, Seattle
place & program
- Rotterdam, Netherlands
large structures & human context

place makers
experiential units or zones
physiological response
perceptual response
aesthetics of encounter AND structural aesthetics

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