



East Link - City of Bellevue Elevated Guideway Aesthetics

Citizens Advisory Committee

May 7, 2014



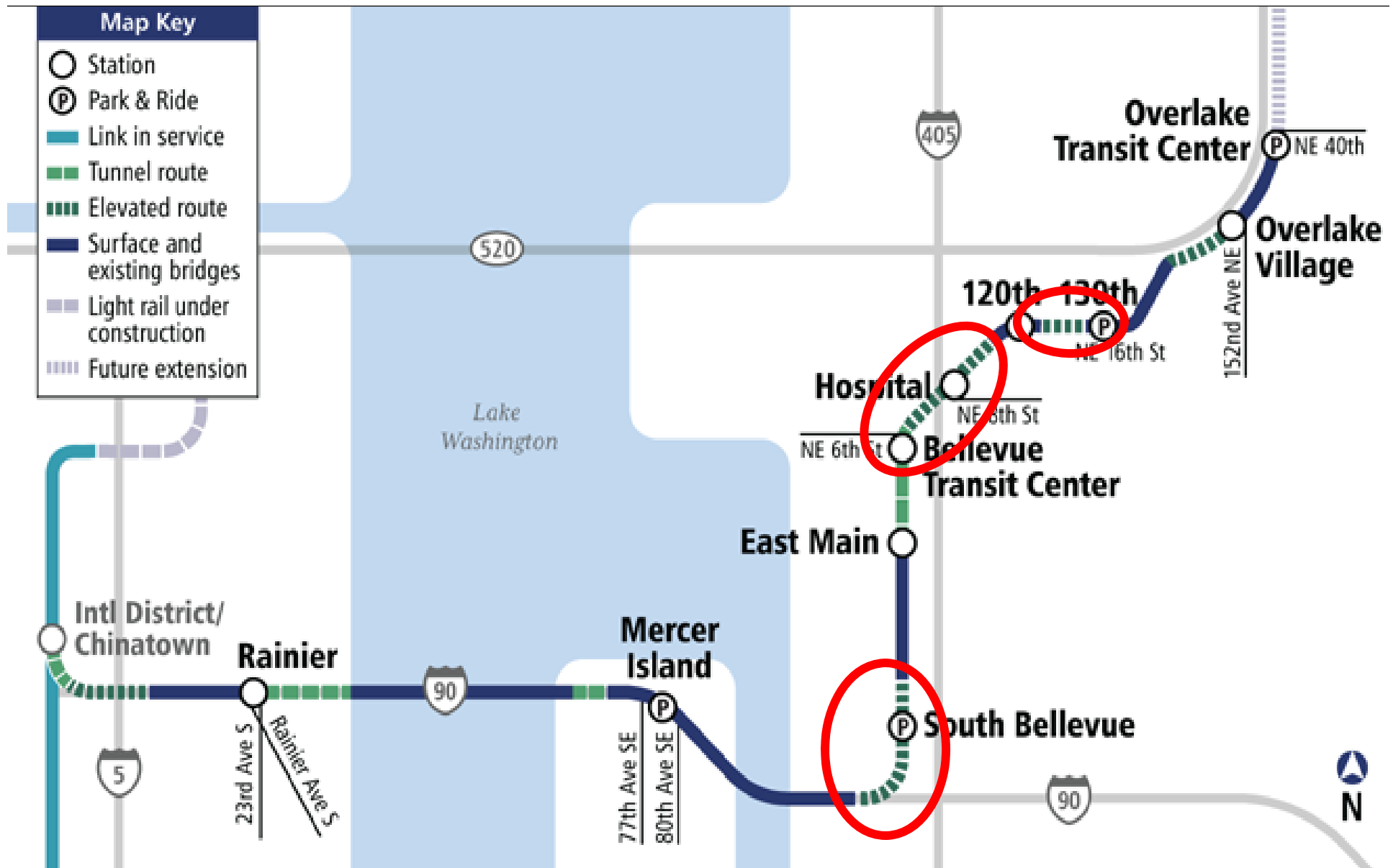




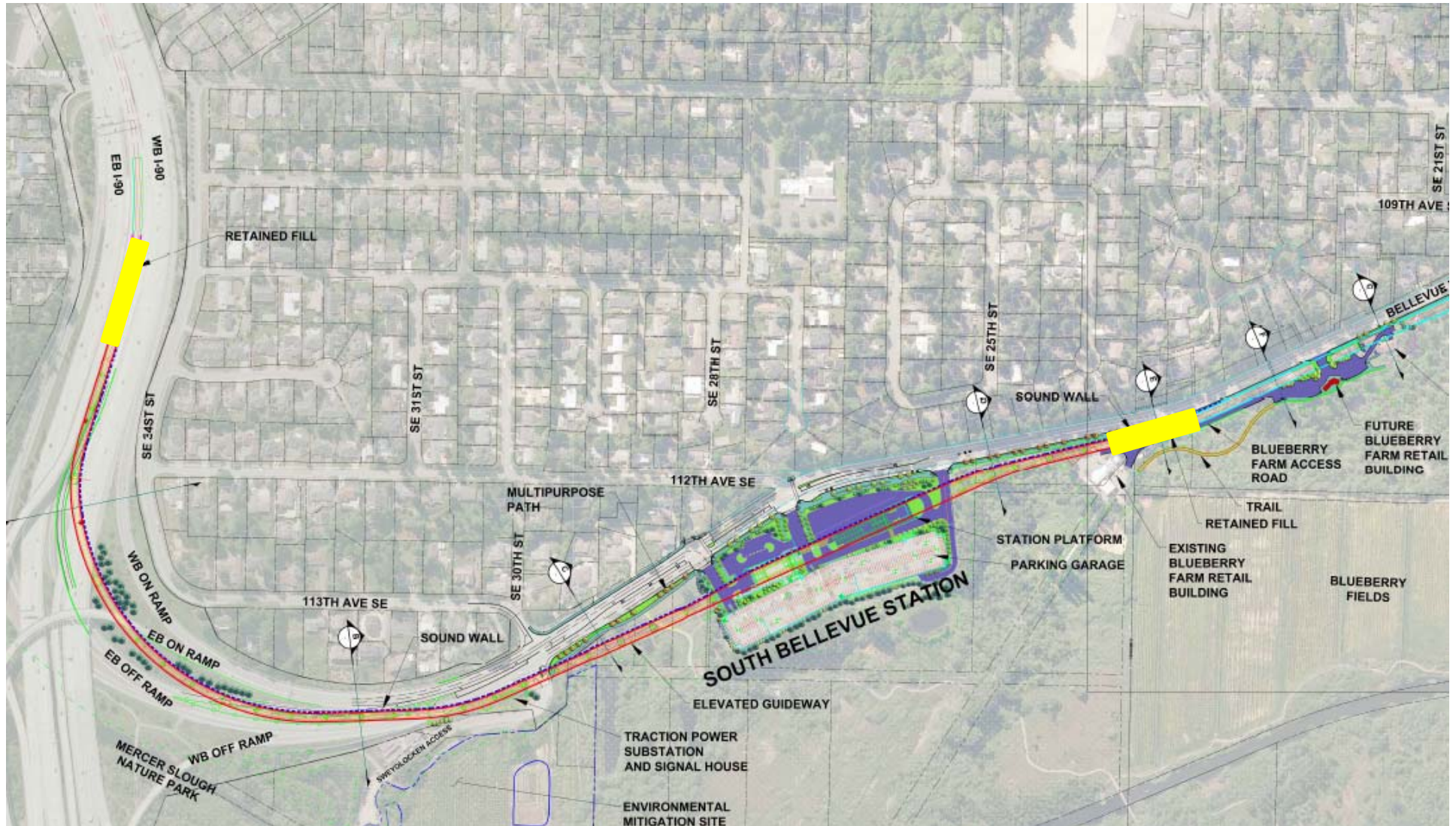




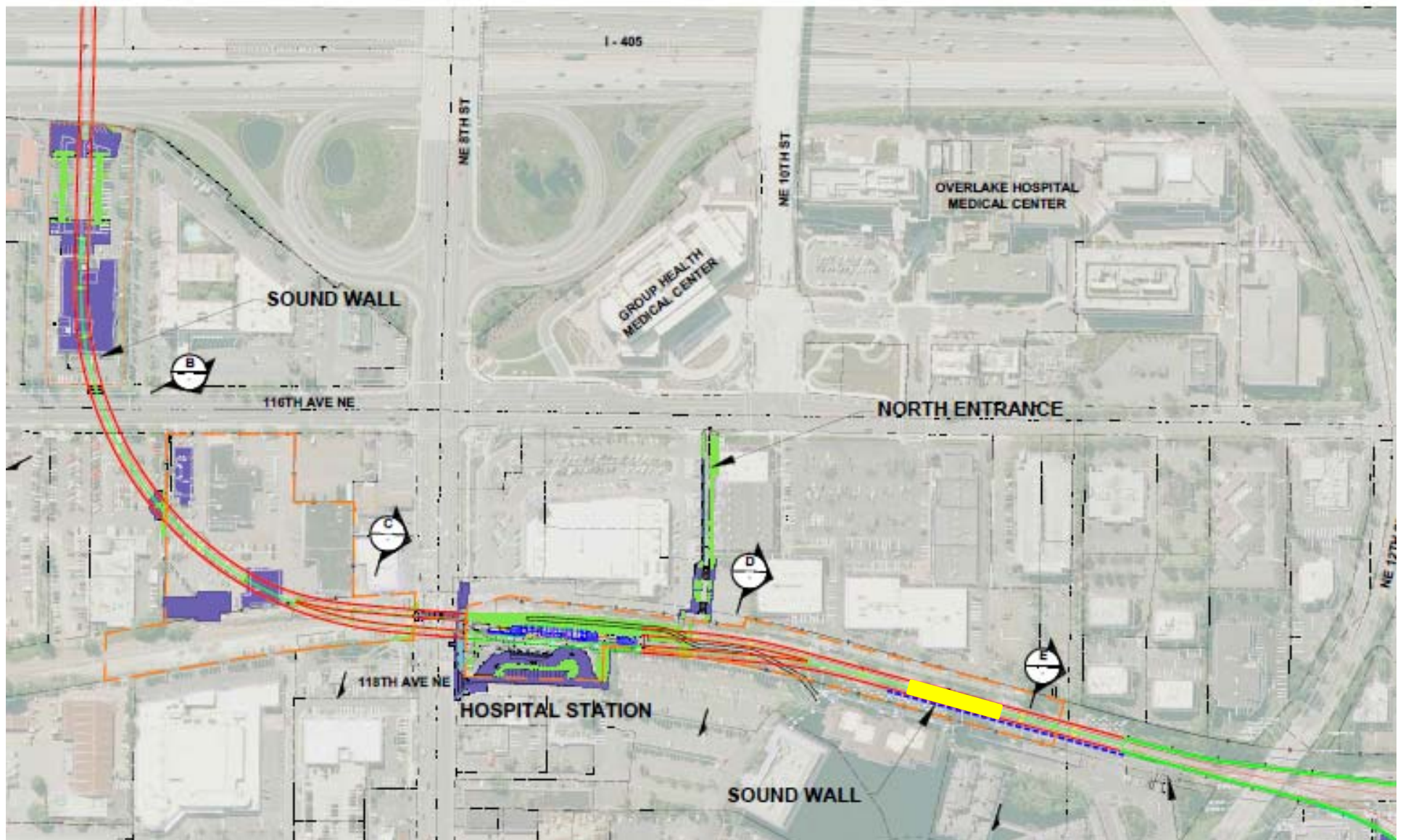
Elevated Guideway in Bellevue



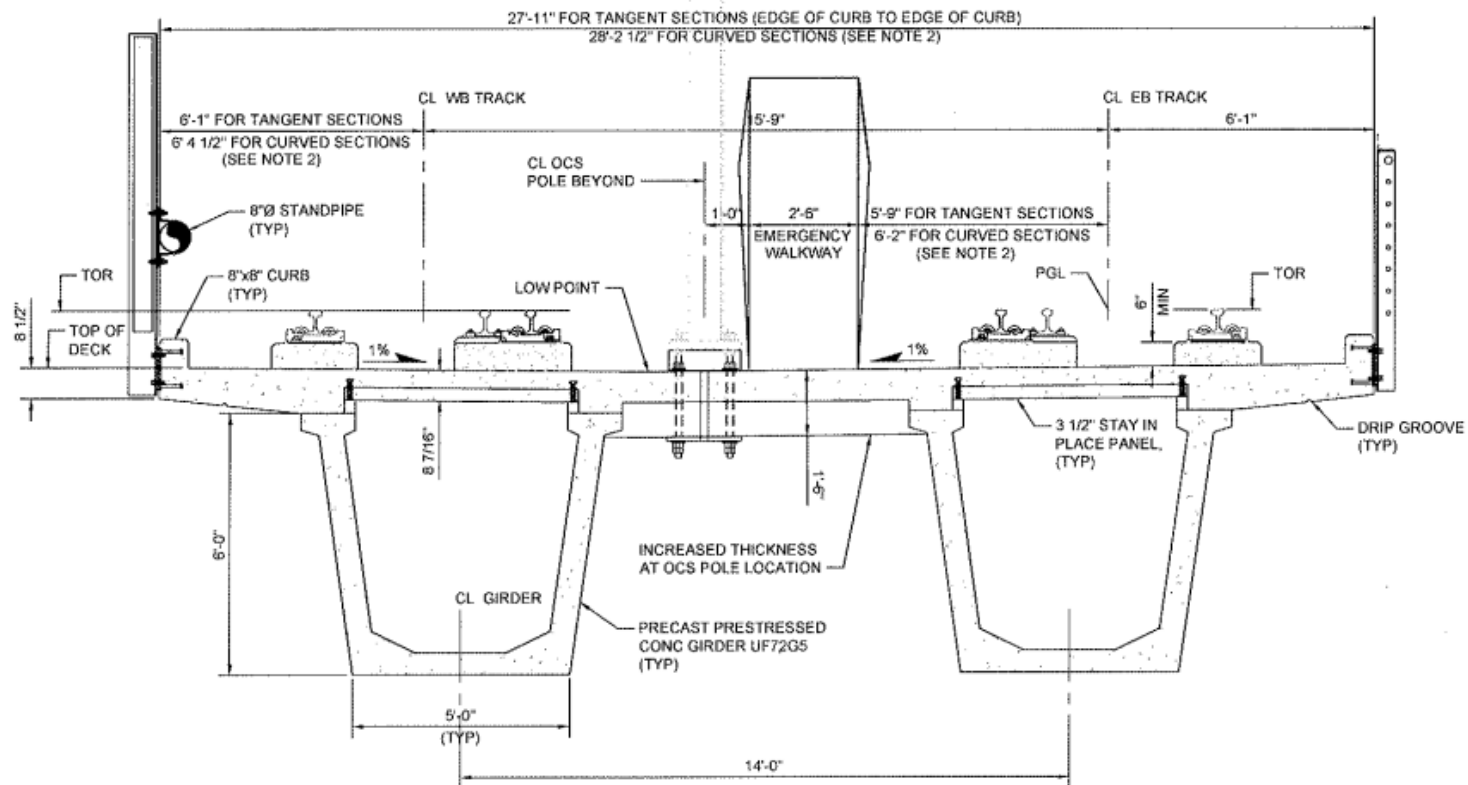
Alignment from I-90 to 112th



Alignment across I-405 to Hospital Station



Typical Double Box Guideway



TUB AT TYPICAL DUAL TRACK

SCALE: 1/2" = 1'-0"

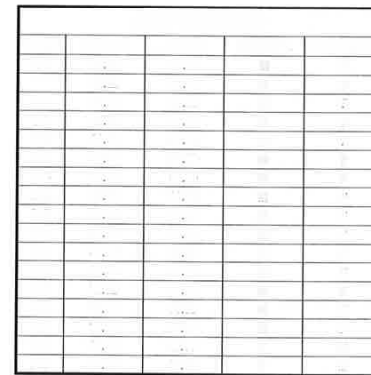
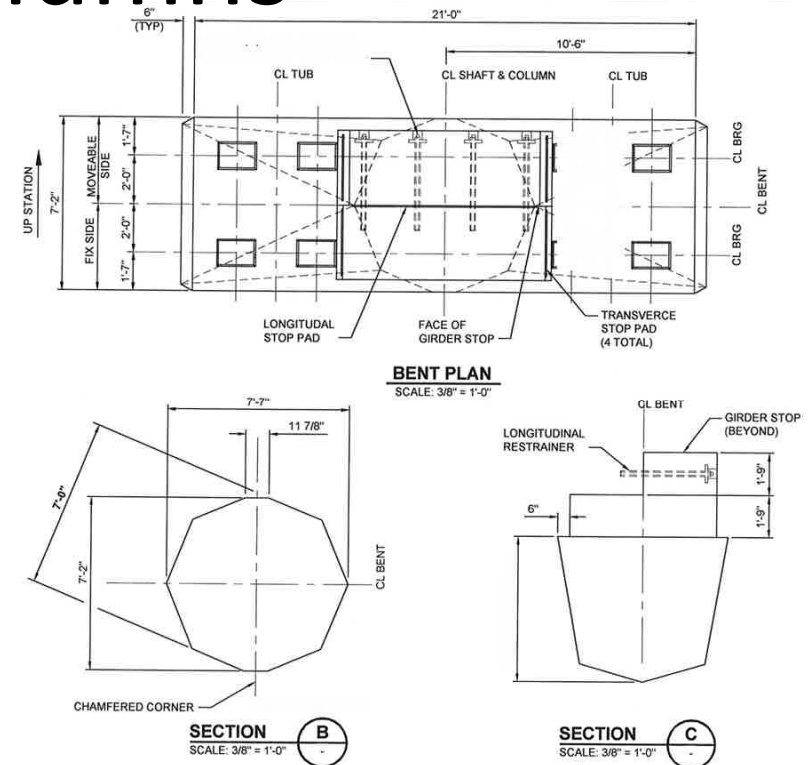
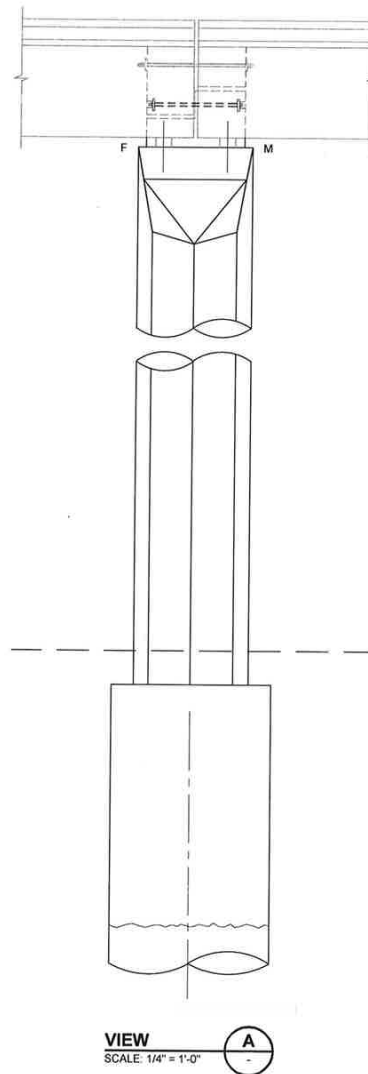
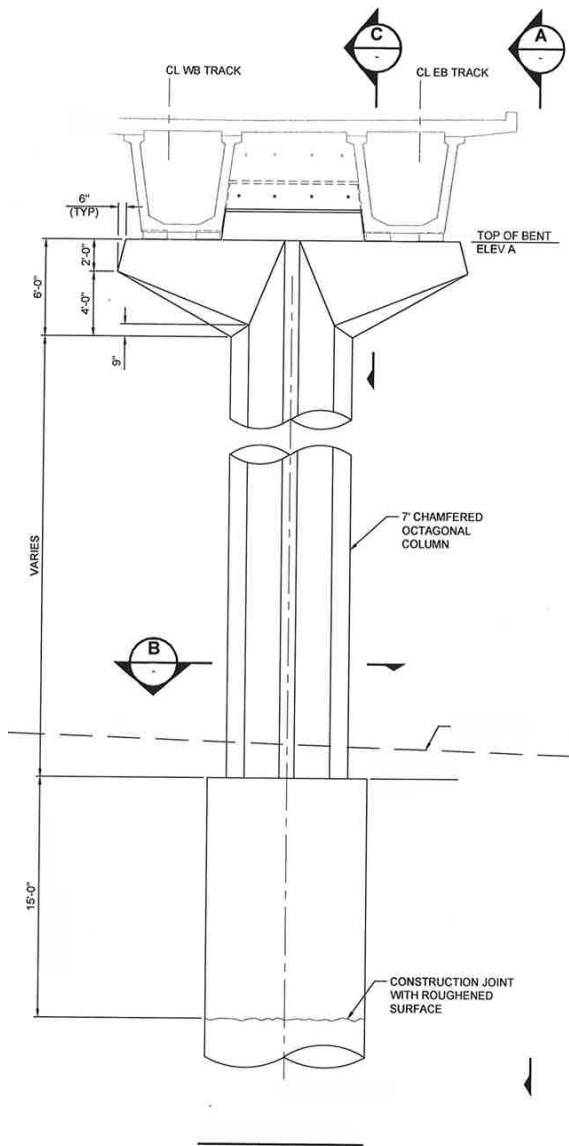
NOTE:

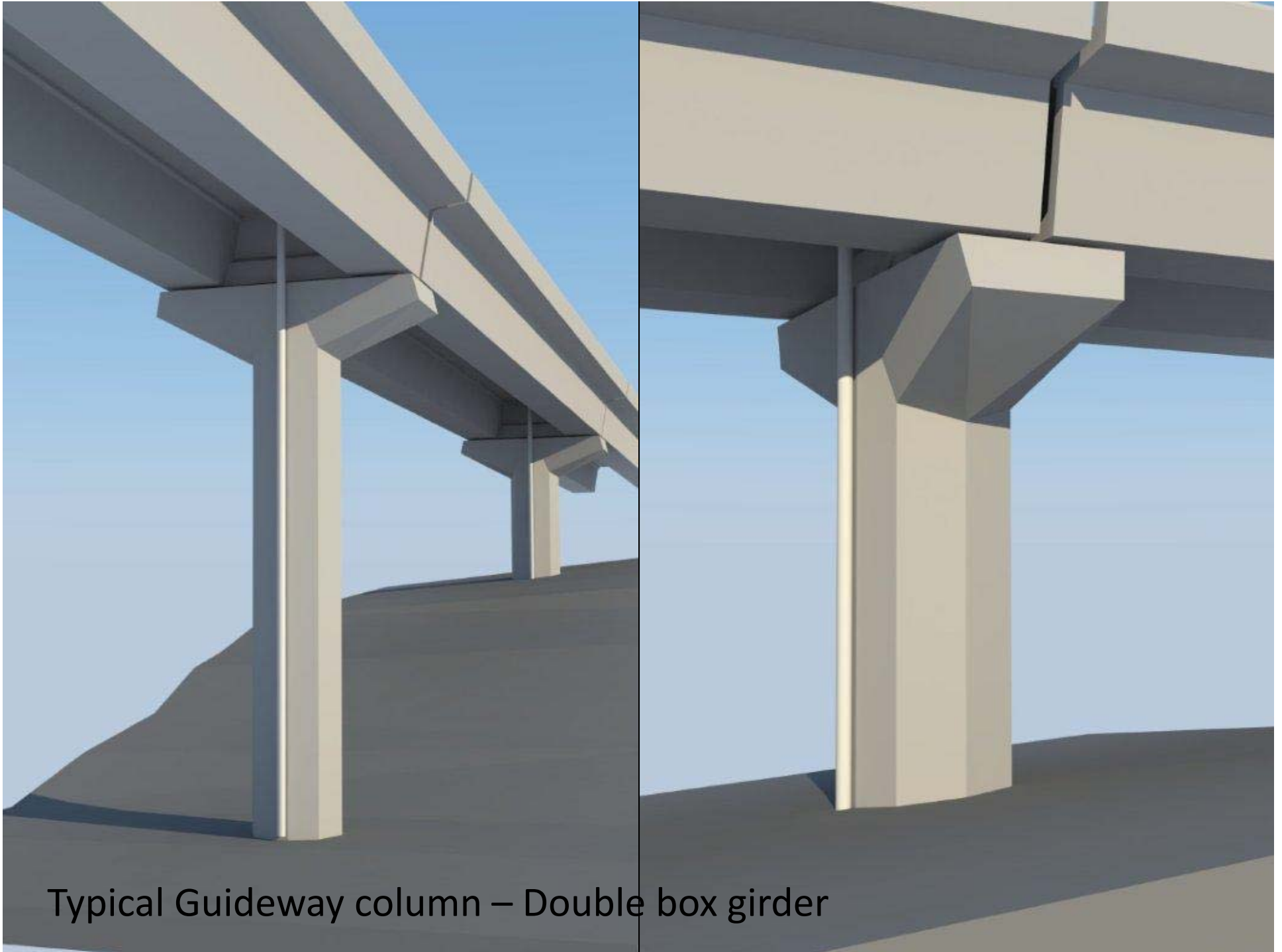
1. TUB GIRDERS ARE STRAIGHT SECTIONS.





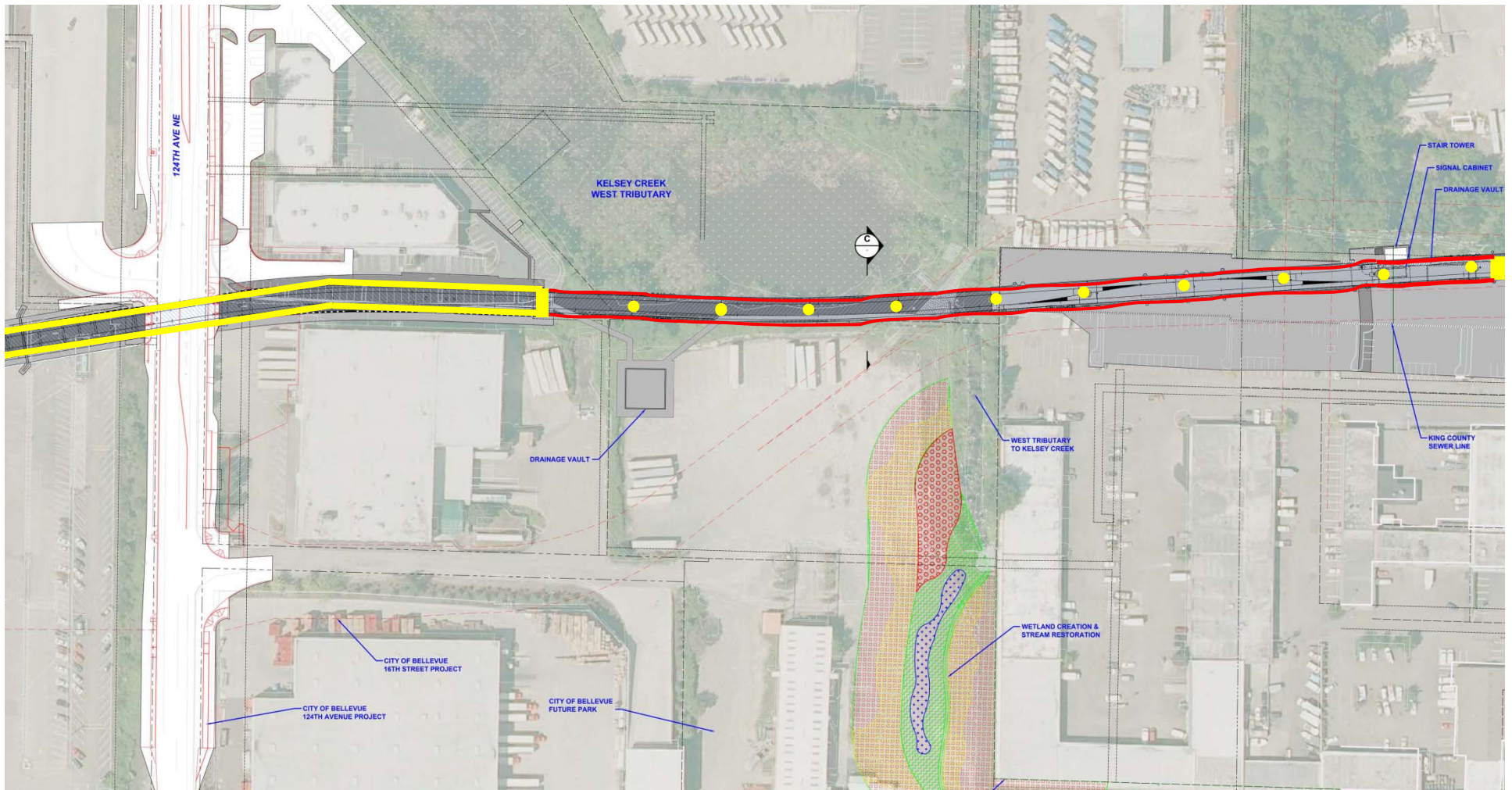
Standard columns



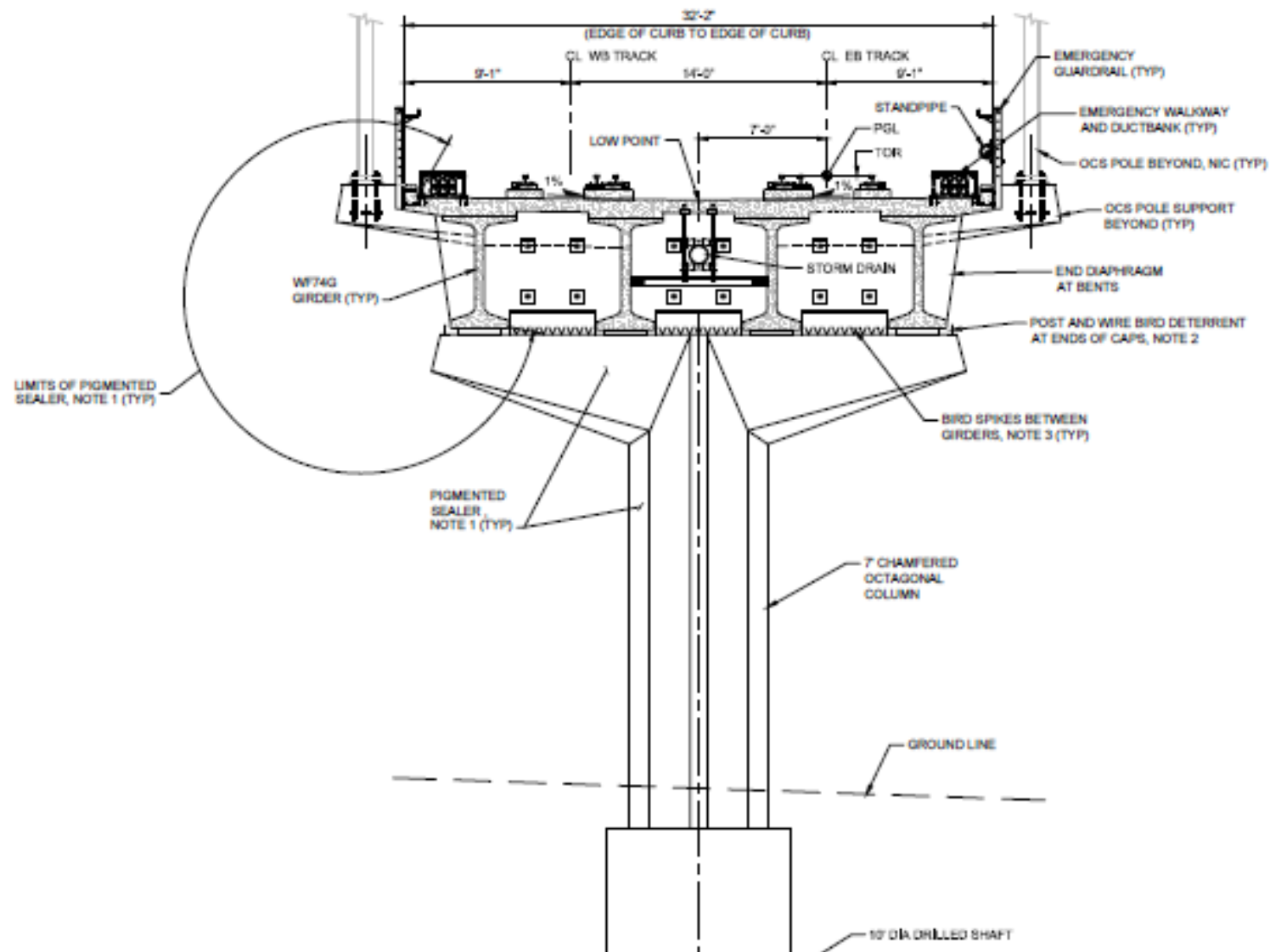


Typical Guideway column – Double box girder

Alignment along Kelsey Creek

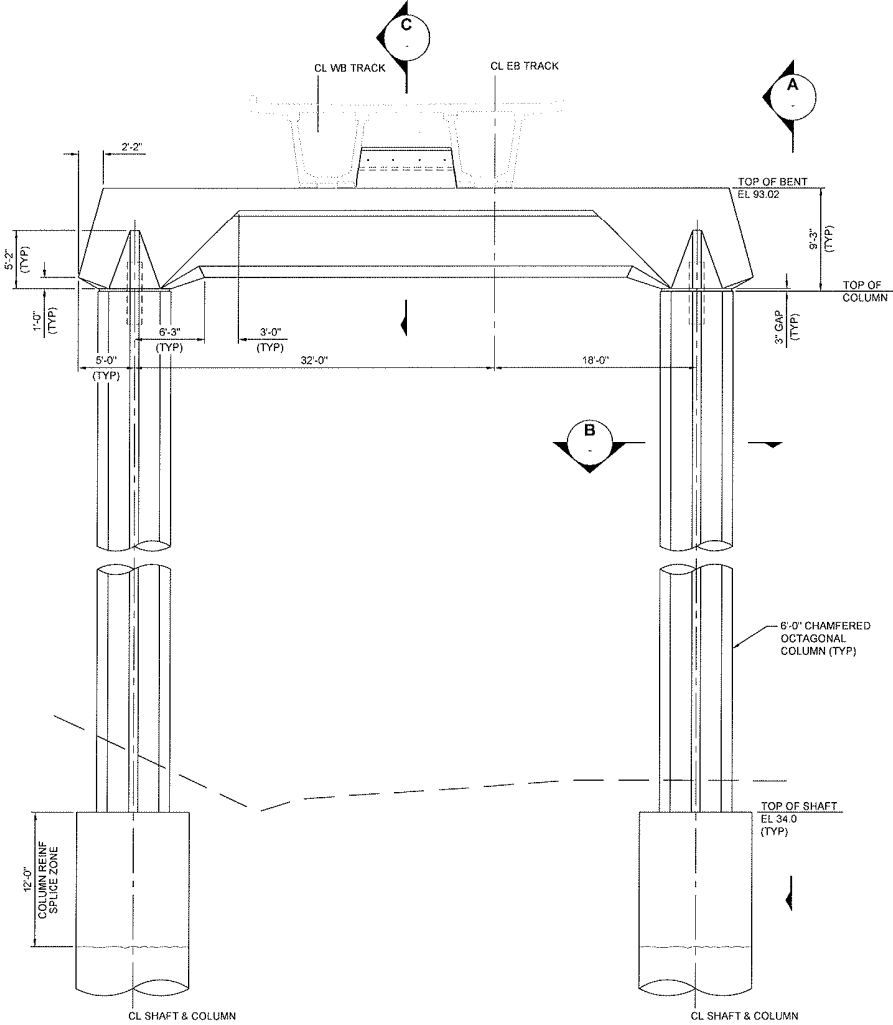


Kelsey Creek Guideway Beams

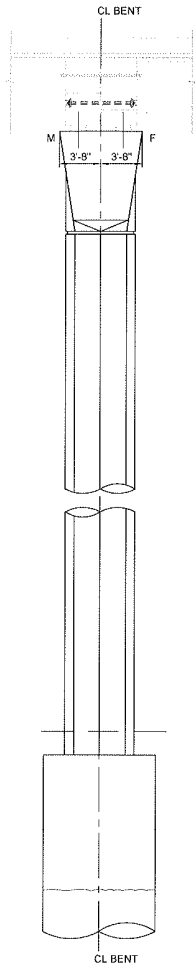




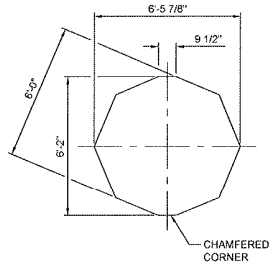
Straddle Bents



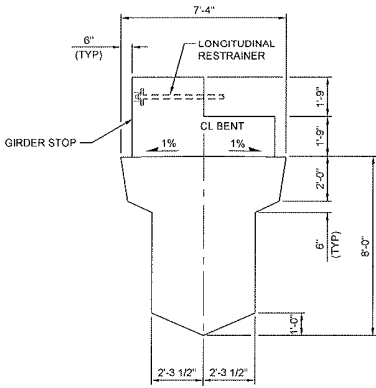
BENT ELEVATION
SCALE: 3/16" = 1'-0"



VIEW A
SCALE: 3/16" = 1'-0"

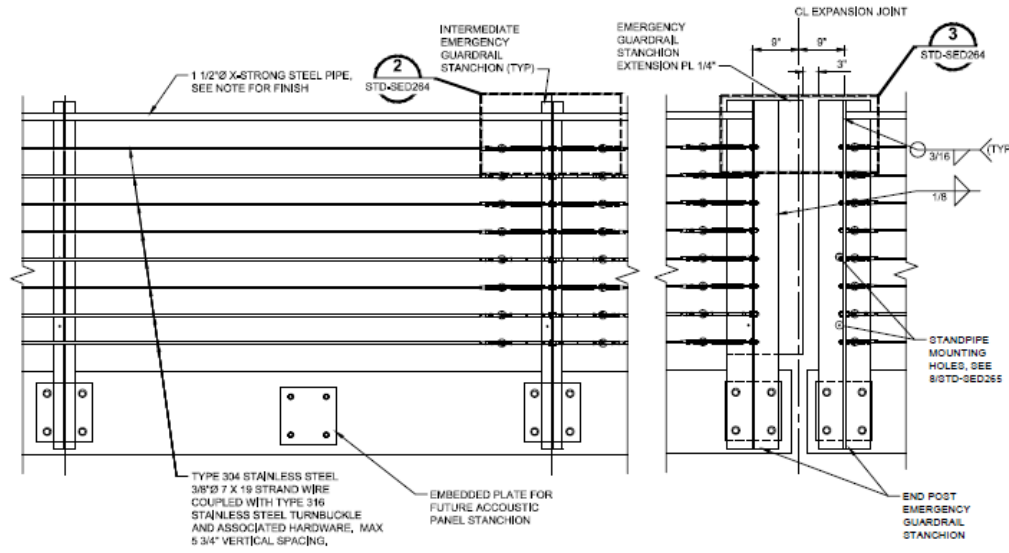
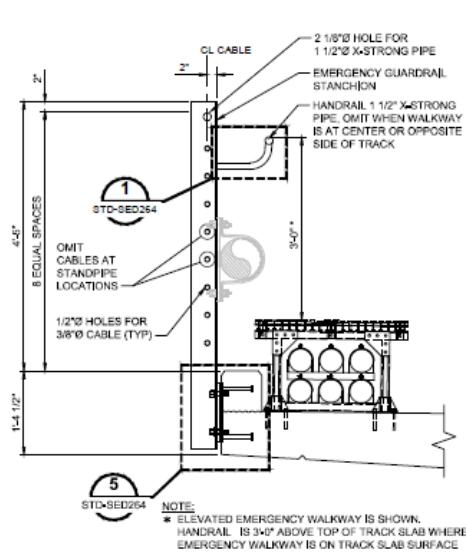


SECTION B
SCALE: 3/8" = 1'-0"

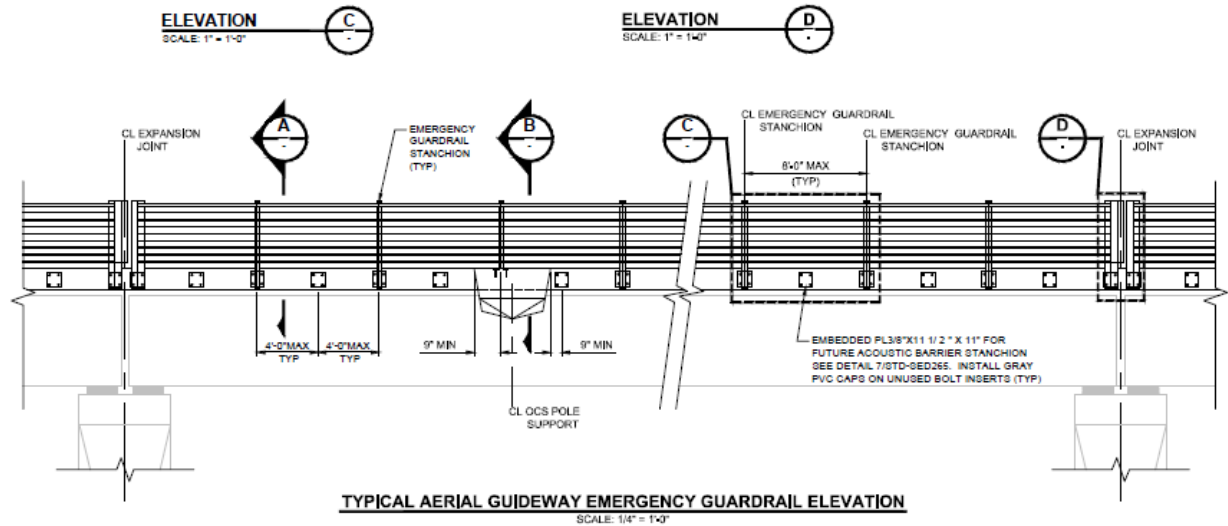
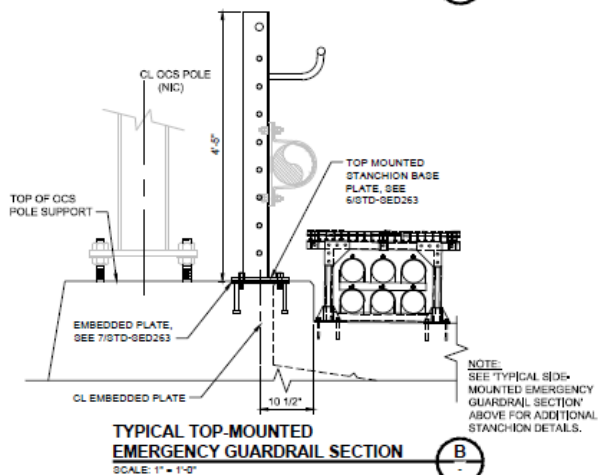


SECTION C
SCALE: 3/8" = 1'-0"

Railings

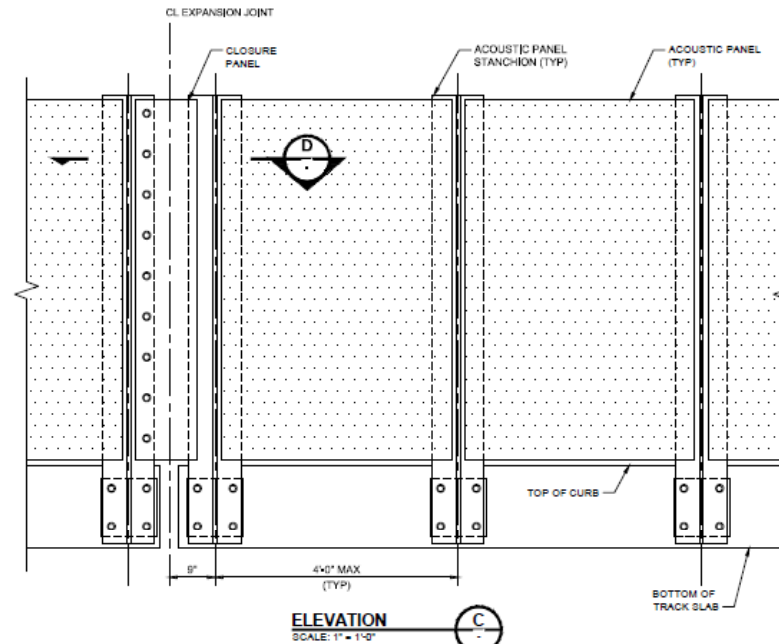
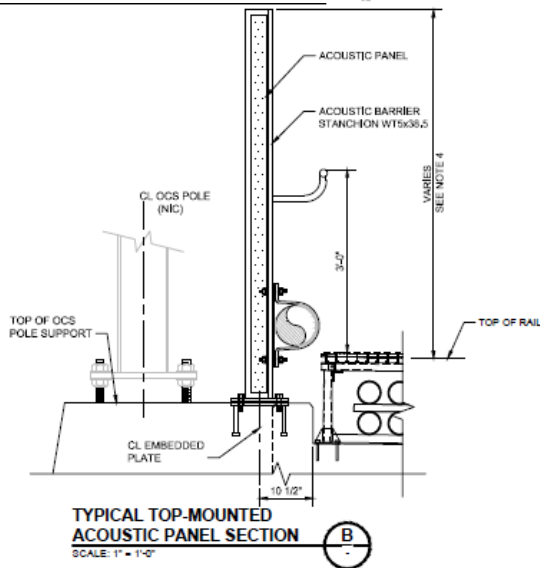
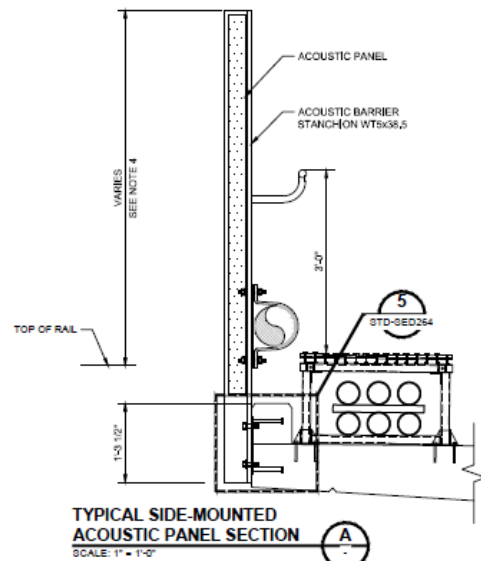


- NOTES:**
1. PROVIDE EMERGENCY GUARDRAIL AT ALL ELEVATED STRUCTURE PERIMETER LOCATIONS EXCEPT WHERE ACOUSTIC PANELS ARE REQUIRED (SEE STRUCTURAL GENERAL LAYOUT DWGS).
 2. THESE DETAILS ESTABLISH GENERAL CONFIGURATION FOR DESIGN OF EMERGENCY GUARDRAIL. THE DETAILS DO NOT ENCOMPASS GEOMETRY AT ALL LOCATIONS. IT HAS BEEN PROVIDED TO CONTRACTOR FOR GENERAL DETAILING INFORMATION ONLY.
 3. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF EMERGENCY GUARDRAIL LAYOUT/ CONFIGURATIONS FOR ITS FULL LENGTH.
 4. MAXIMUM SPACING OF EMERGENCY GUARDRAIL STANCHIONS SHALL BE 8'-0". ADJUST SPACING OF STANCHIONS AT EXPANSION JOINTS AND OCS POLE SUPPORTS.
 5. ALL VERTICAL ELEMENTS SHALL BE INSTALLED PLUMB. PROVIDE TURNBUCKLES AT A NOMINAL 60" SPACING.
 6. FOR STANDBY LOCATION AND MOUNTING DETAILS SEE MECHANICAL DRAWINGS.
 7. MAXIMUM SPACING OF EMERGENCY GUARDRAIL EXPANSION JOINTS SHALL BE 125'-0".
 8. ALL EXPOSED PLAIN STEEL SHALL BE PAINTED IN ACCORDANCE WITH CONTRACT SPECIFICATION 09 96 00.

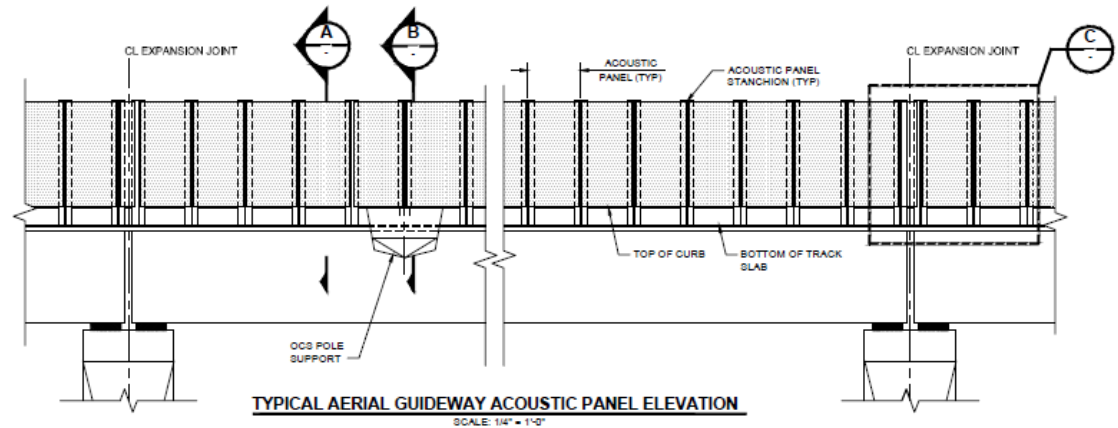
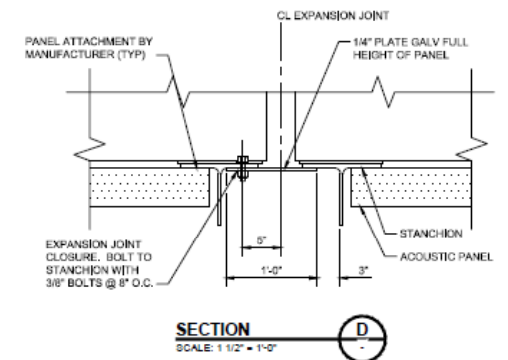




Acoustical Panels

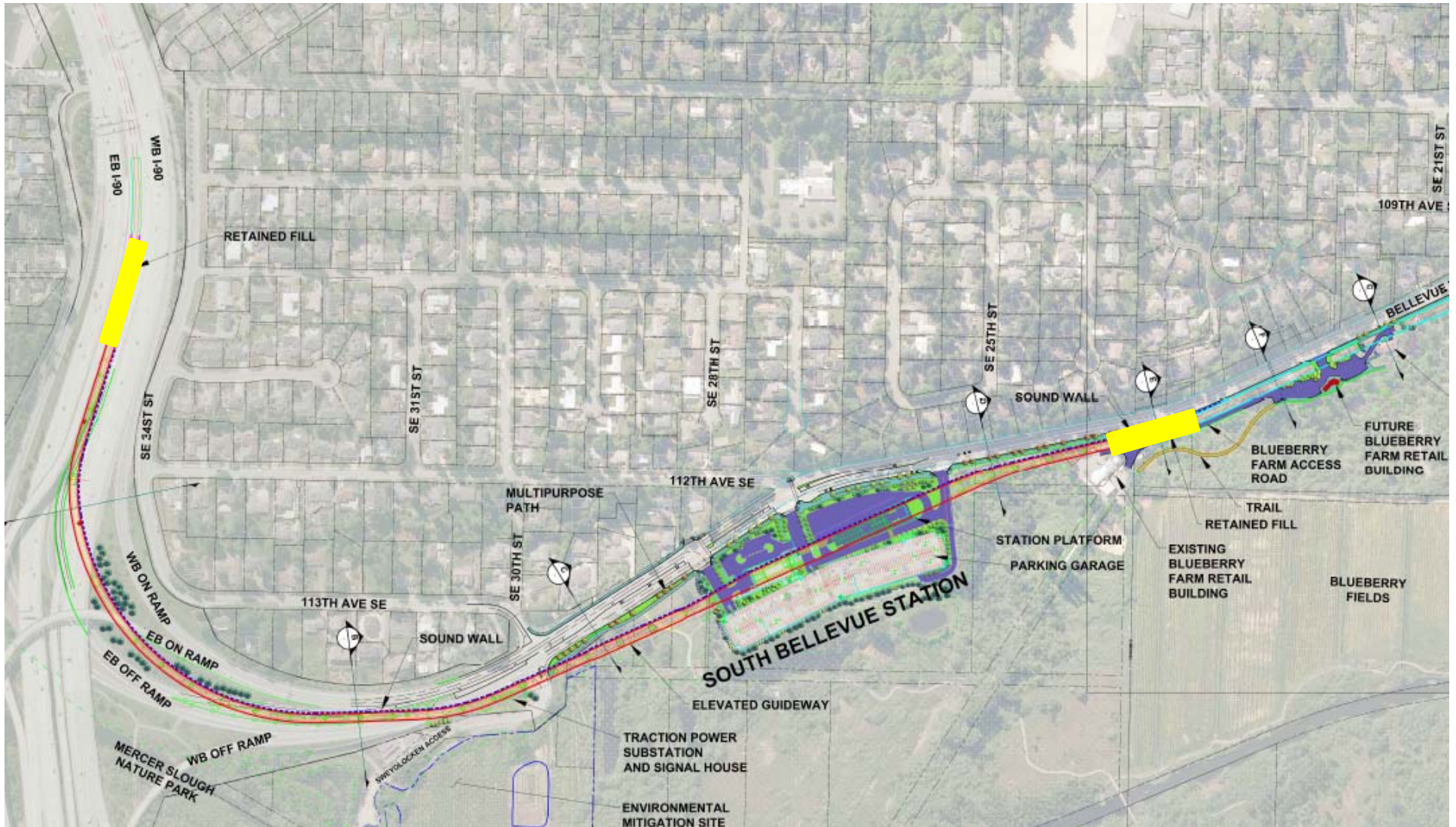


- NOTES:**
1. THESE DETAILS ESTABLISH GENERAL CONFIGURATION FOR DESIGN OF ACOUSTIC BARRIER. THE DETAILS DO NOT ENCOMPASS GEOMETRY AT ALL LOCATIONS. IT HAS BEEN PROVIDED TO CONTRACTOR FOR GENERAL DETAILING INFORMATION ONLY.
 2. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF ACOUSTIC BARRIER LAYOUT / CONFIGURATIONS FOR ITS FULL LENGTH.
 3. ALL ACOUSTIC PANEL STANCHIONS SHALL BE INSTALLED PLUMB.
 4. FOR LOCATION AND HEIGHT ABOVE TOP OF RAIL OF ACOUSTIC PANELS, SEE STRUCTURAL GENERAL LAYOUT DWGS.

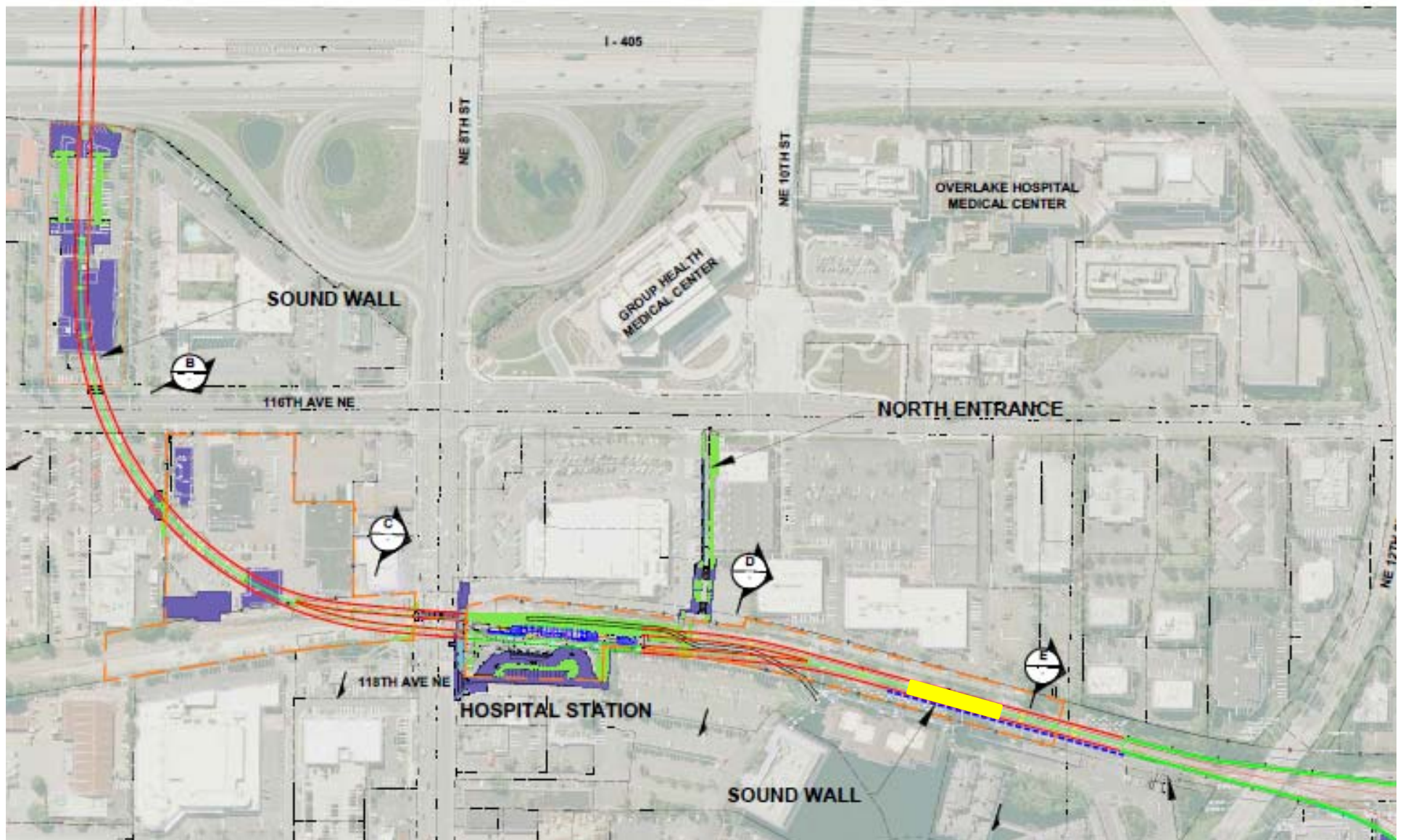


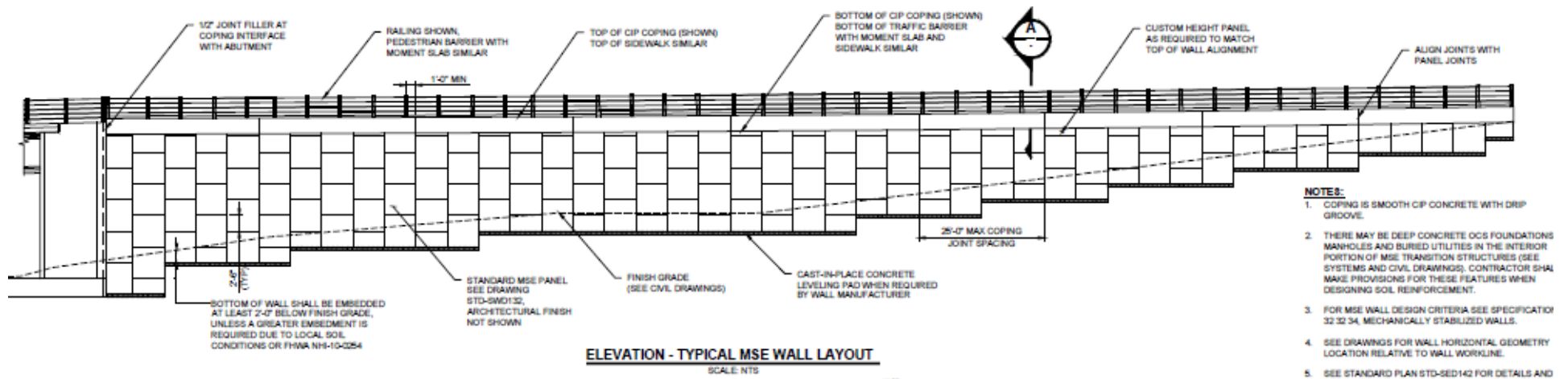


Transition Structures and Retaining Walls

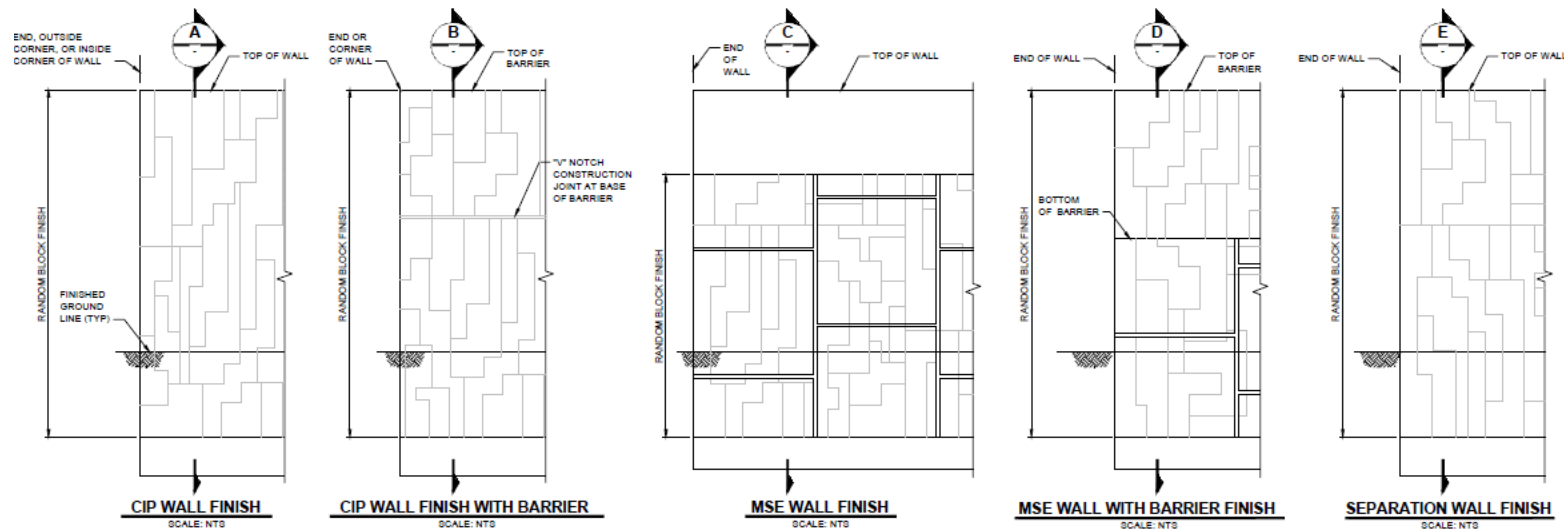


Transition Structures and Retaining Walls

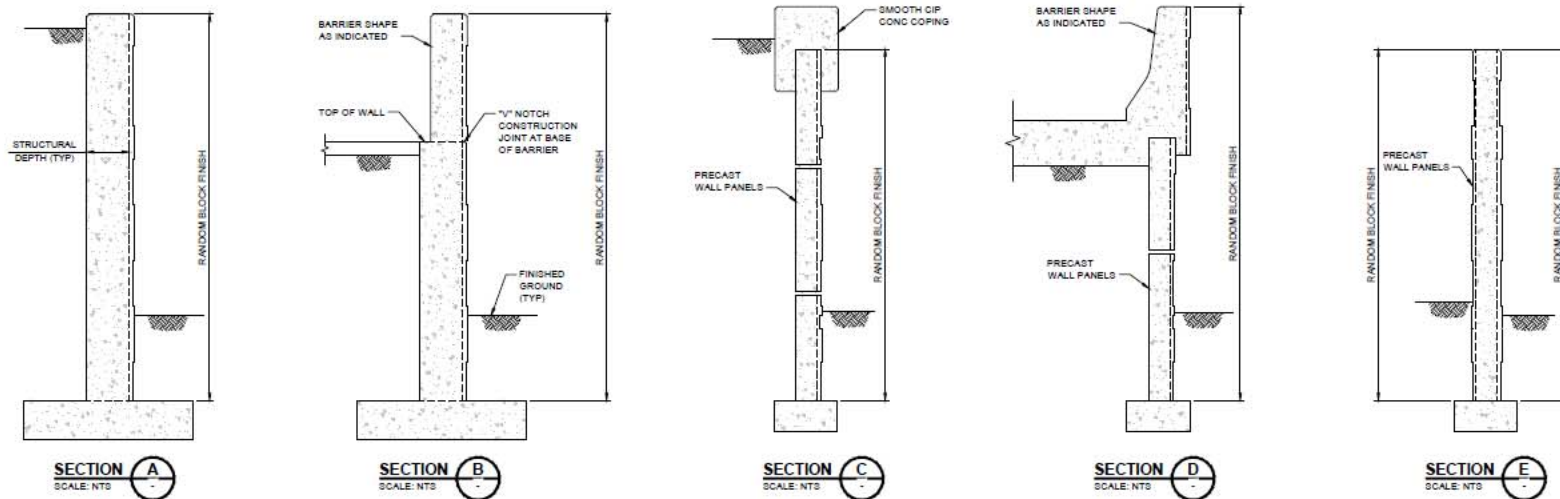




Transition Structures and Retaining Walls



NOTES:
1. SEE SPECIFICATIONS 03 11 00 FOR CONCRETE FINISHING DETAILS.





STANDARD CONCRETE WALL FORMLINER



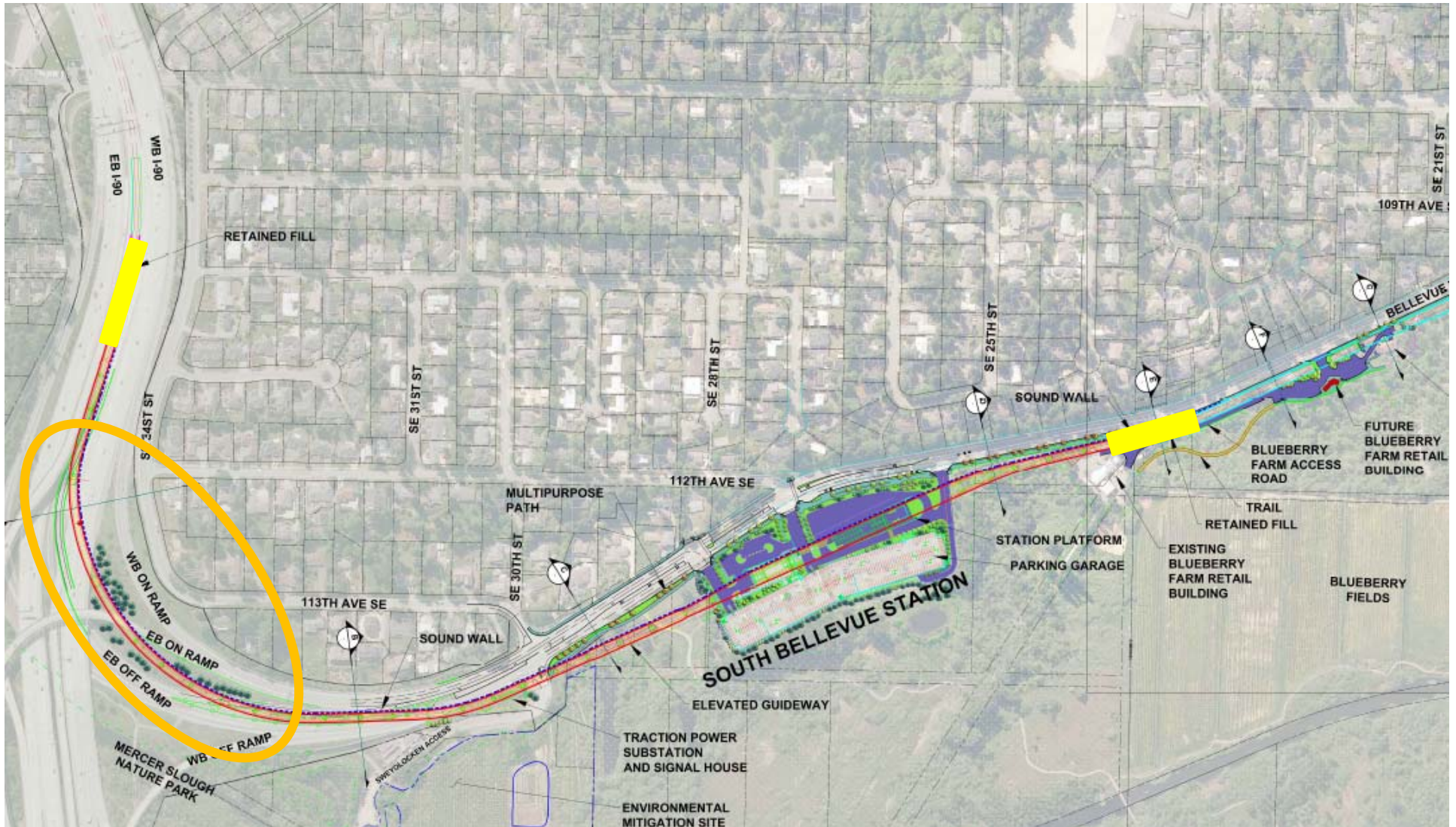
Longspan Structures

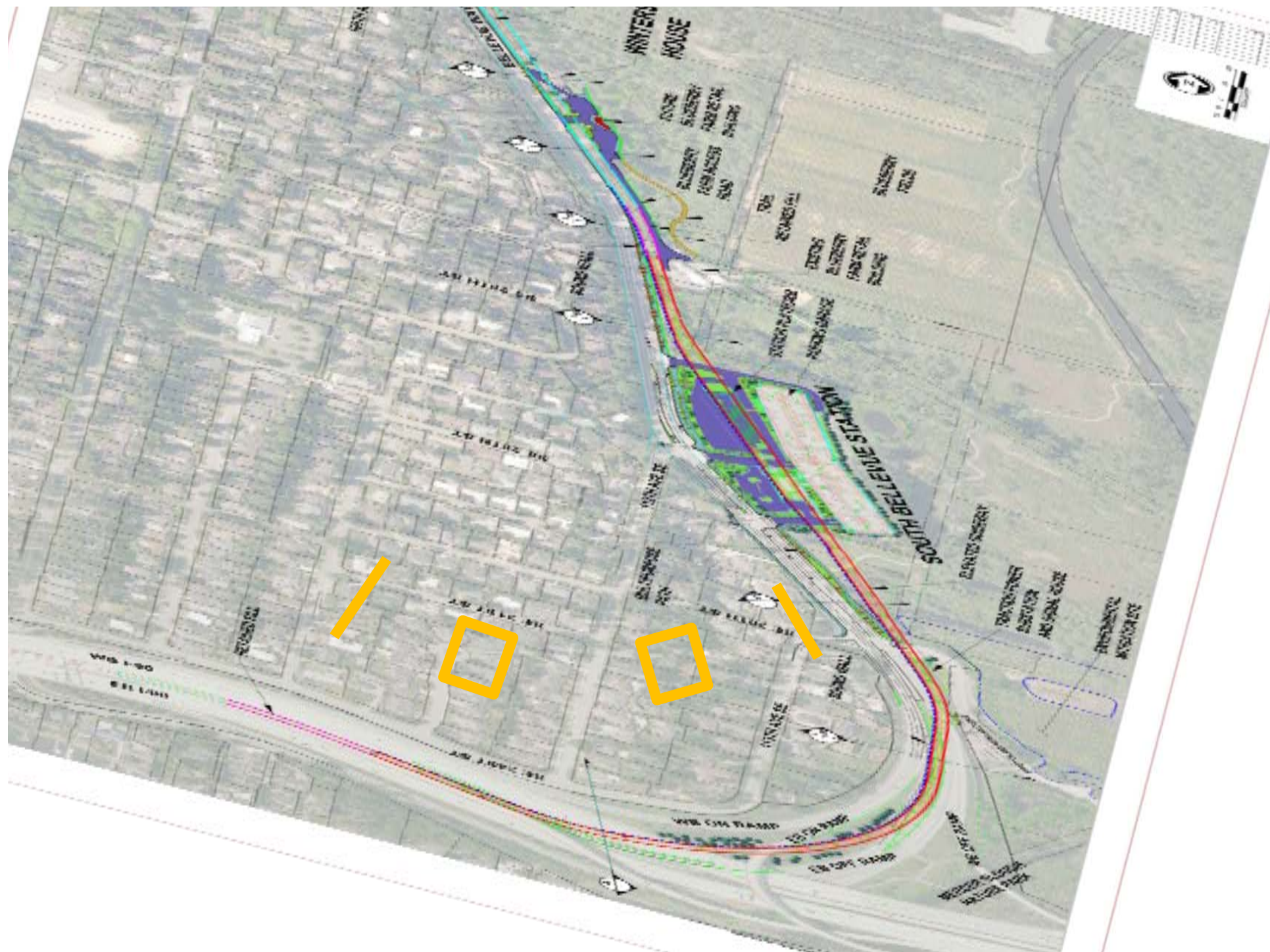




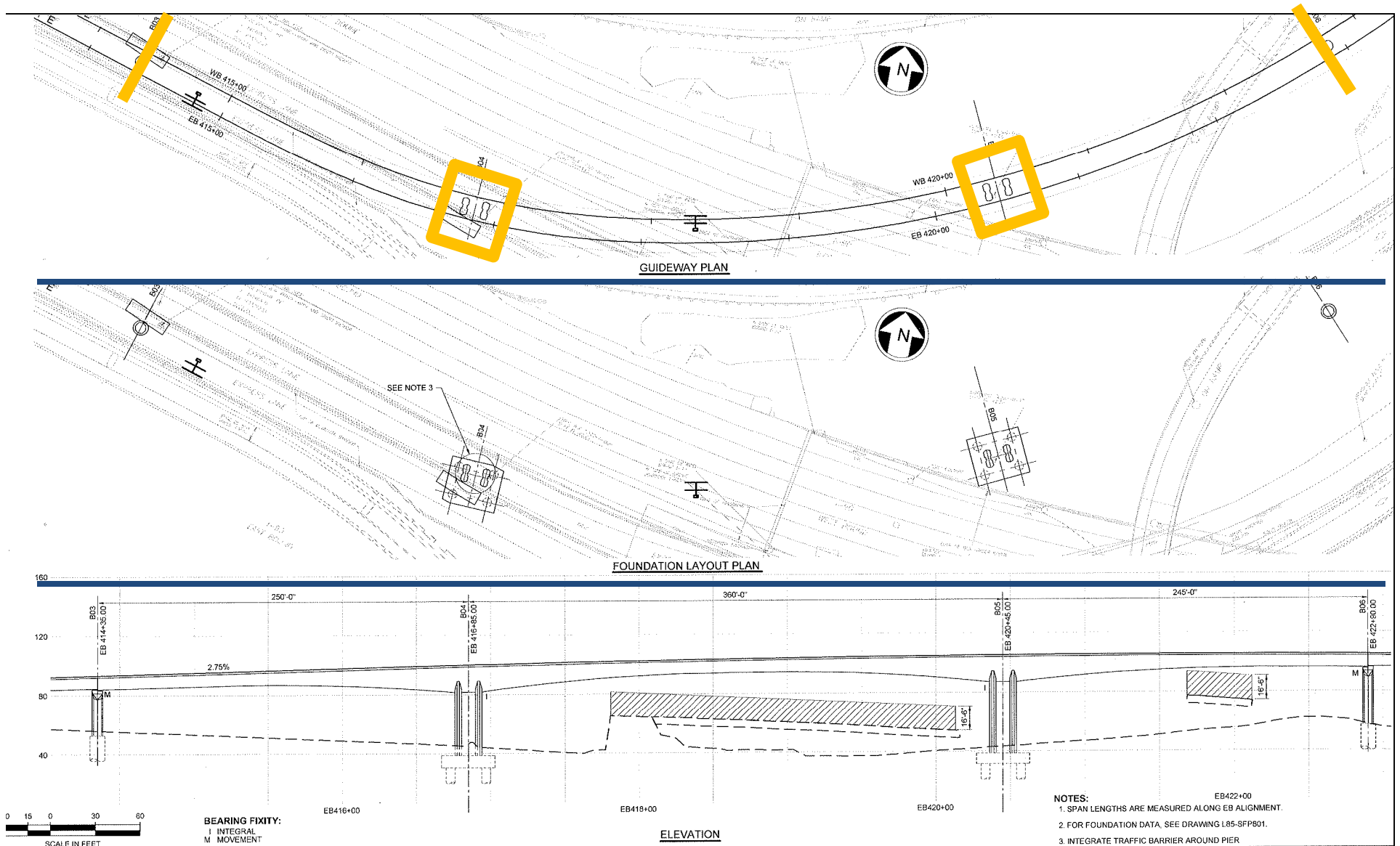


Longspan Structures at I-90



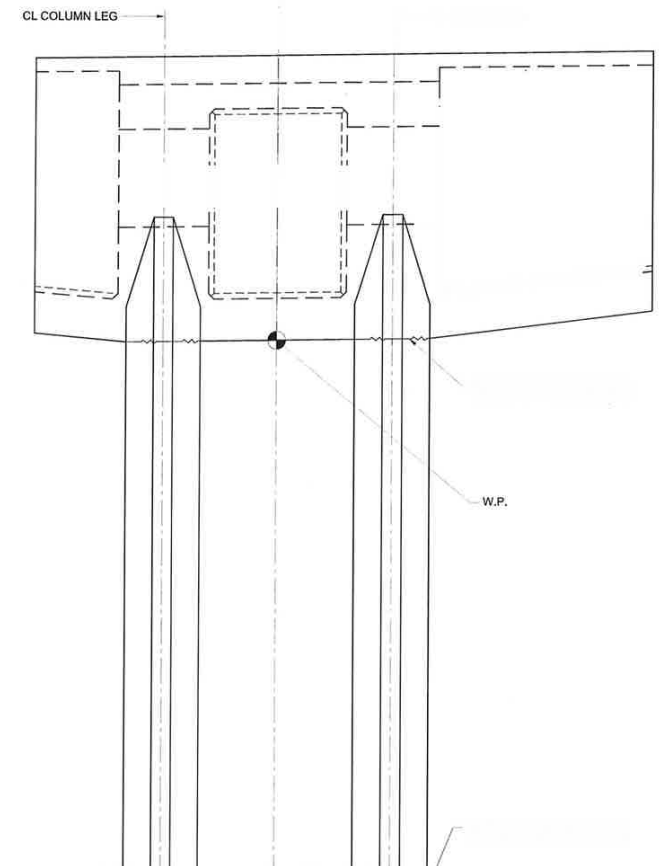
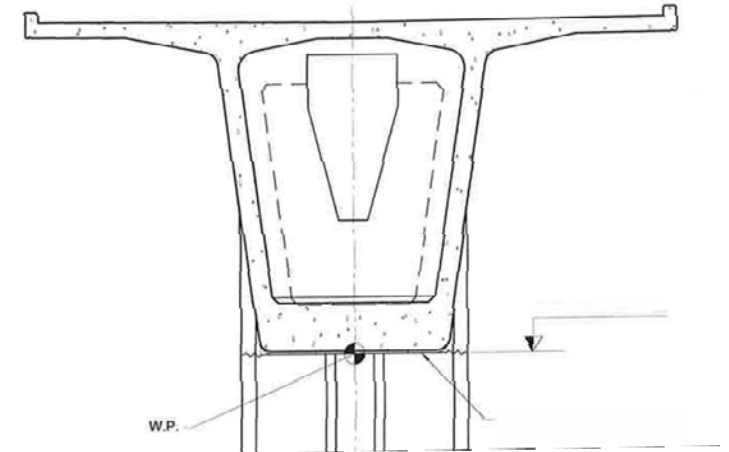


Longspan Structure at I-90

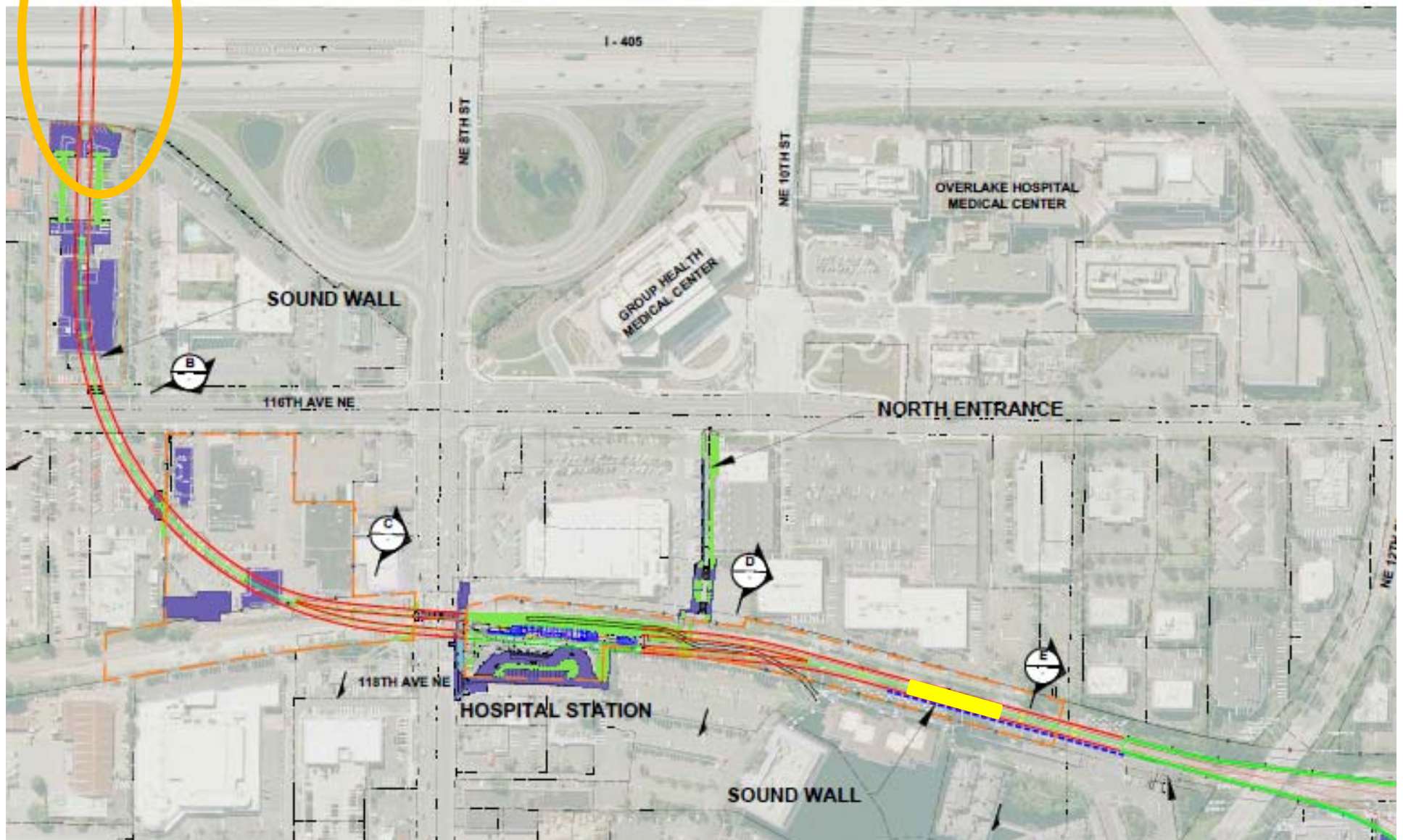


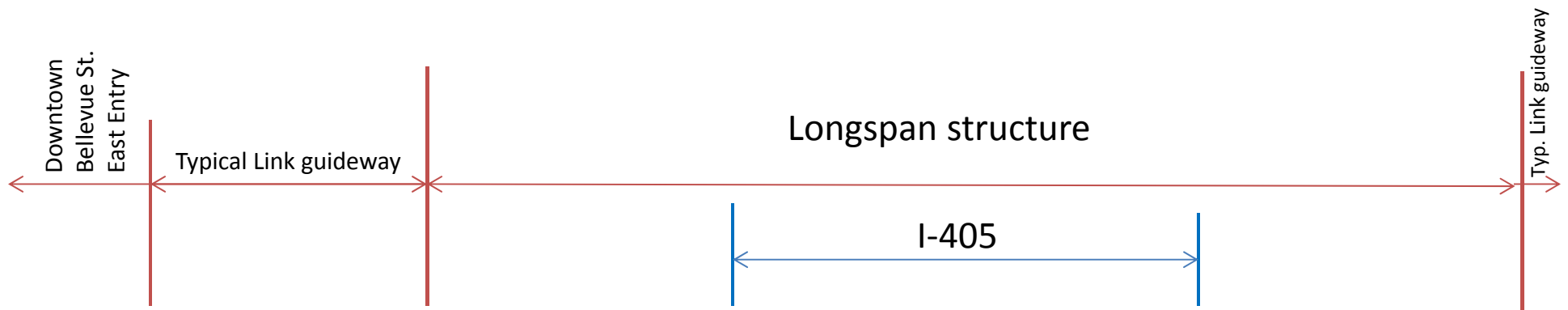


Typical Longspan column – Single box girder



Longspan Structure at I-405



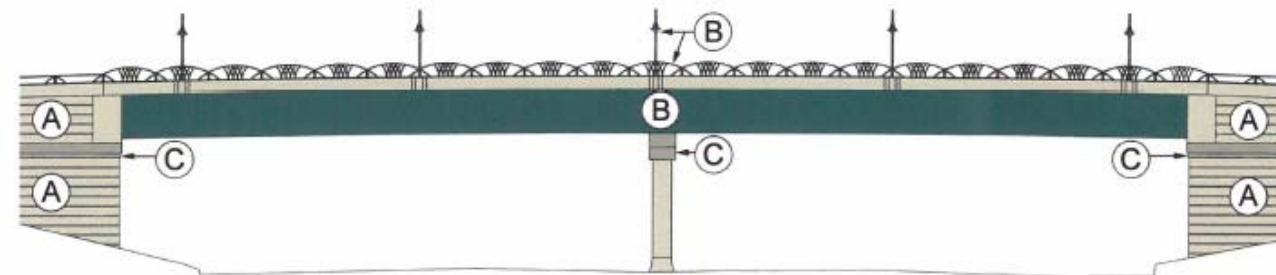


Typical Longspan over I-405

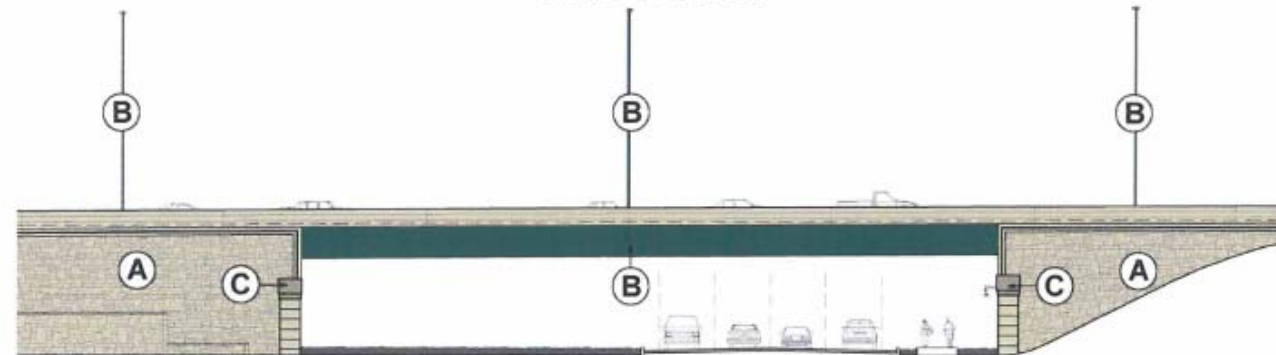
I-405 Urban Design Criteria

INTERSTATE 405 URBAN DESIGN CRITERIA

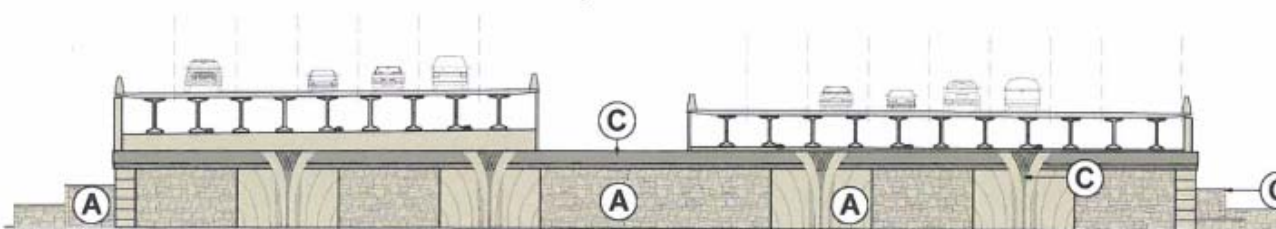
THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION



Overpass Elevation



Underpass Side Elevation



Underpass Section/Elevation

A

Color A:
WSDOT Standard Color:
'Mt. St. Helens'

Applications:
Base Color Throughout:
Barriers (Roadway, Bridge, Overpass, and Transitions)
Retaining Wall Cap (when used with Barrier)
Retaining Walls
Abutment Walls
Noise Walls
Columns

B

Color B:
WSDOT Standard Color:
'Cascade Green'

Applications:
Bridge Super-Structure including all sides of girders
All Metal Work:
Mainline Lighting
Under-bridge Lighting **-powder coat**
Pedestrian Lighting **-powder coat**
Pedestrian Fencing **-powder coat**
Sign Structures **-powder coat**
Signal Light Structures
ITS Equipment (poles, cabinets, etc.) **-powder coat**

C

Color C:
WSDOT Standard Color:
'Mt. Baker'

Applications:
Accent Areas:
Retaining Wall Cap (when used without Barrier)
Noise Wall Cap and Post
Abutment Cap
Abutment Medallion Inset
Pier Cap
Column Inset

All visible surfaces of listed elements shall be painted.

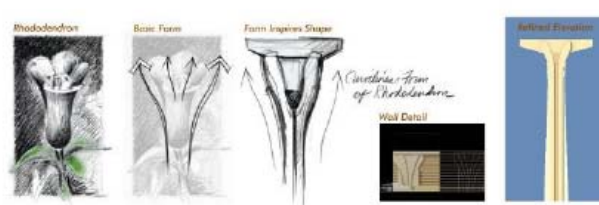
Utilities shall be painted to match the background surface color.

I-405 Urban Design Criteria

I 405 Column Designs

BRIDGE AND STRUCTURES OFFICE

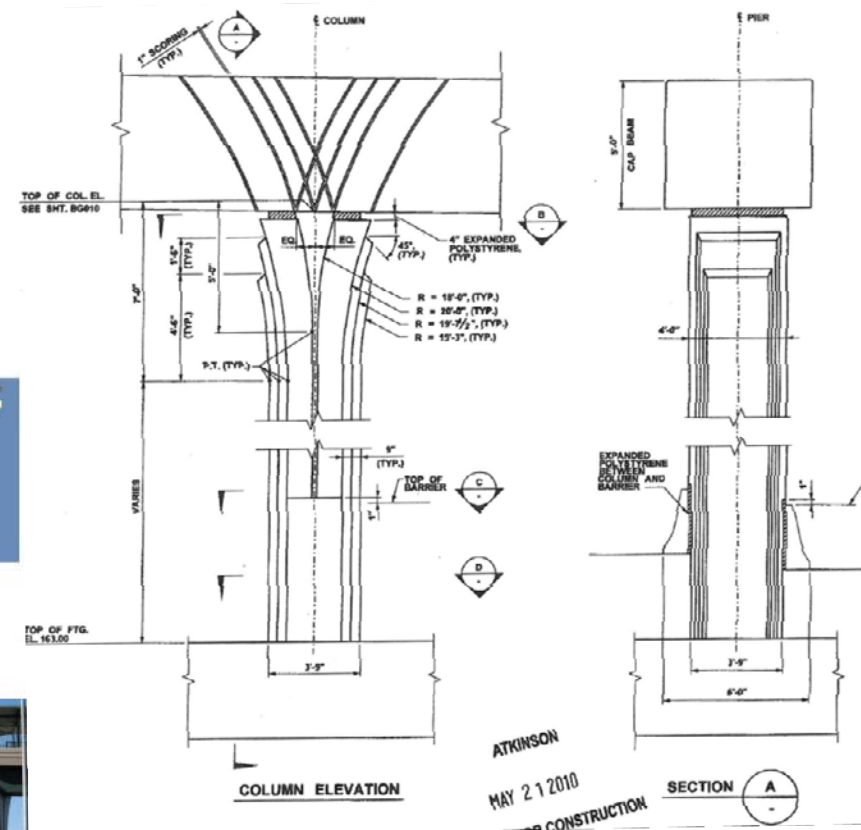
- Images shown are from the I405 Context Sensitive Design Master Plan.
- Also shown are preliminary sketches and built work at the Canyon Park Sound Transit stop. WSDOT Bridge Office provided this design in contract C6932 for Sound Transit.
- The images are shown to further the understanding of the ST crossing of I405 in Bellevue as it relates to the 405 corridor theme commitments.
- Note that WSDOT implements FHWA's Context Sensitive Design in the Interstate 405 Corridor. The designs are required to fulfill WSDOT commitments made to its stakeholders.



I 405 Context Sensitive Design Commitments.



Sound Transit Canyon Park Station implementing I 405 Context Sensitive Design. Construction documents by WSDOT Bridge Office.

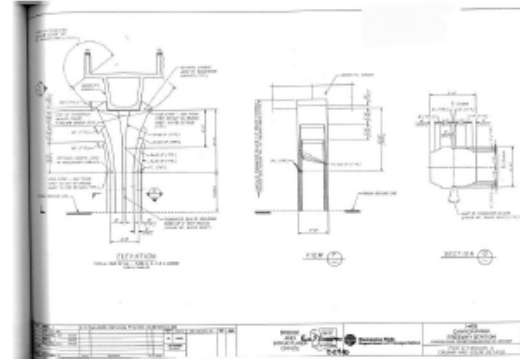




I 405 Column Designs & ST 405 Crossing

BRIDGE AND STRUCTURES OFFICE

- The Sound Transit column and superstructure interface provides a natural location to incorporate I 405 forms.
- The same approach was employed by Sound Transit when WSDOT designed the Canyon Park Station ten years ago.
- WSDOT proposes no major change in ST's basic column configuration. The focus of form is at the top of columns, not the structural scheme.



PAUL KINDERMAN PE AIA
WSDOT BRIDGE ARCHITECT

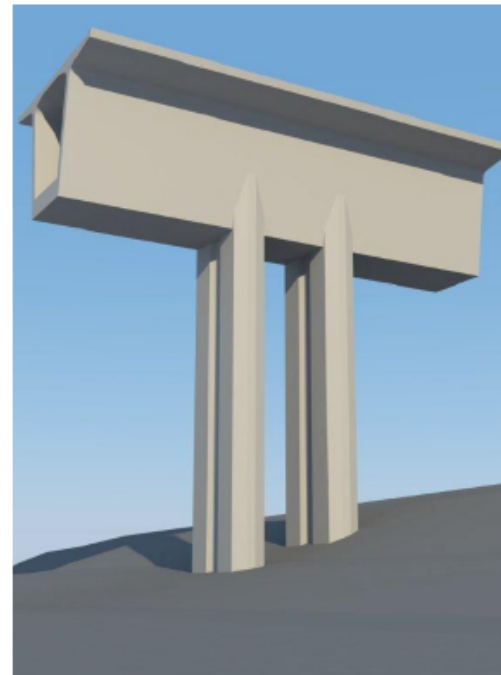
KIM HENRY PE
I 405 PROJECT DIRECTOR



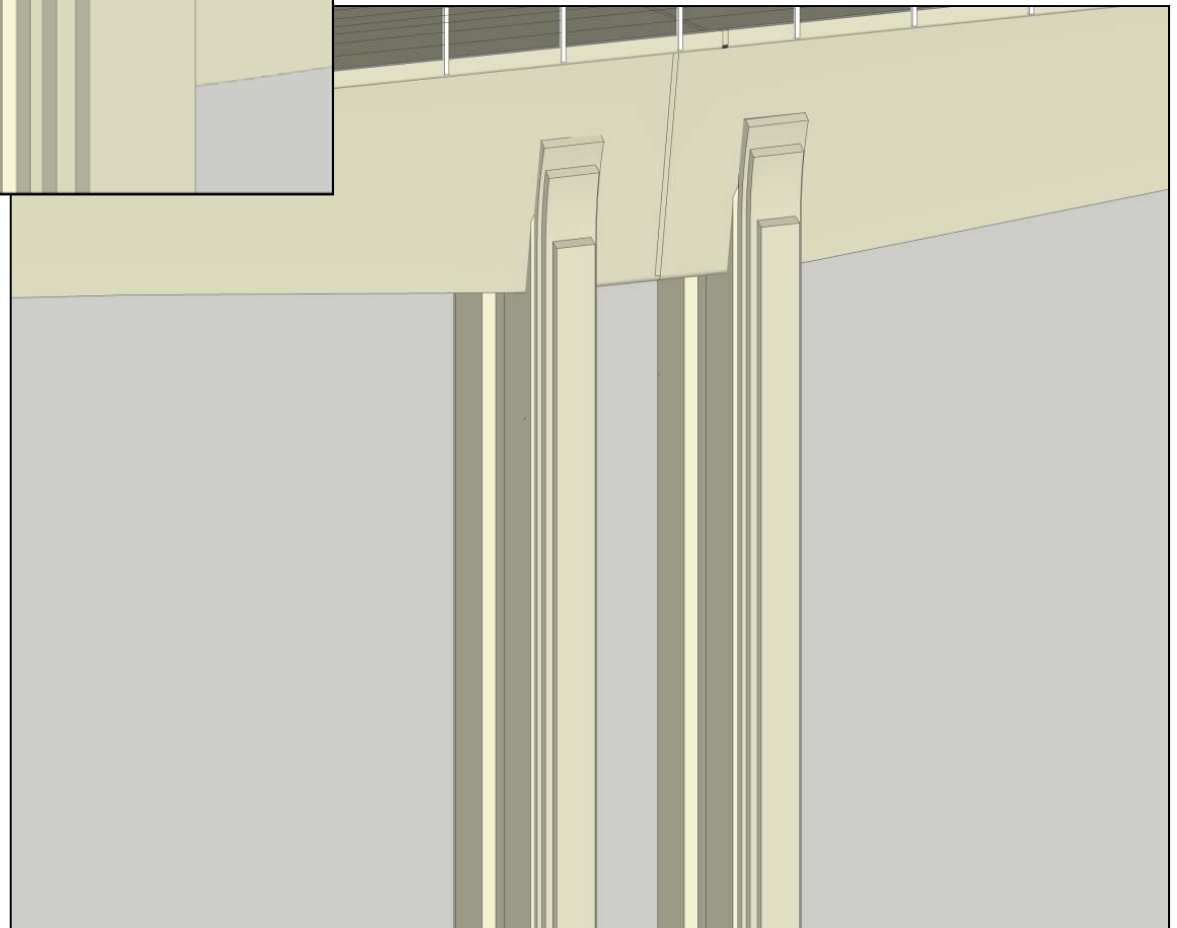
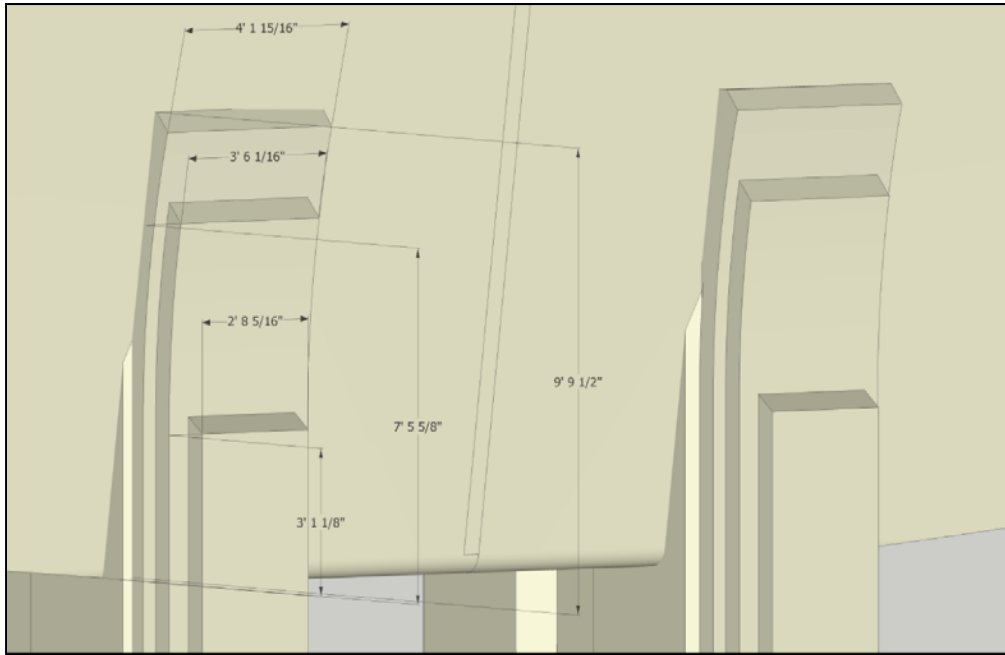
Sound Transit Canyon Park Station implementing
I 405 Context Sensitive Design.

Construction documents
by WSDOT Bridge Office.

Final design by P. Kinderman AIA
with B. Elrod ASLA circa 2004.



Sound Transit structural configuration remains
unchanged at I 405 crossing.





Comments or Questions?

