Plan View with Promenade Segments

WHERE ONLY ONE SEGMENT IS SHOWN, ALL OTHER PROMENADE OPTIONS MATCH ALIGNMENT

SCHUSTER PROMENADE
REQUIREMENTS
- ADA GRADE GOAL LESS THAN 5%
- AT GROUND SURFACE AT 4TH STREET BRIDGE
- AT GROUND SURFACE ACROSS GARFIELD GULCH
- AT GROUND SURFACE INTO OLD TOWN
- BNSF REQUIREMENT MSE WALLS WILL REQUIRE VARIANCE
- BNSF CLEARANCE FOR OVERCROSSINGS 24 FEET ABOVE TRACKS

PRELIMINARY GEOTECHNICAL GUIDELINES
- MINIMIZE CUTS ALONG SLOPE IN STADIUM WAY SEGMENT
- 1H:1V TEMPORARY CUT ALLOWABLE FOR WALL CONSTRUCTION
- MAXIMUM SLOPE LENGTH WITHOUT BENCH SIMILAR TO EXISTING
- ASSUME PLANNED CUTS NO STEEPER THAN EXISTING
- MAINTAIN SIMILAR FACTOR OF SAFETY FOR SLOPE STABILITY
Elevated Causeway Option

EXISTING
STADIUM SECTION

PROPOSED
STADIUM SECTION

EXISTING
FLOUR MILL SECTION

PROPOSED
FLOUR MILL SECTION

EXISTING
OLD TOWN

PROPOSED
OLD TOWN

EXCAVATED SOIL VOLUME 2,925 TRUCKS OR 4.3 FEET IN TACOMA DOME
IMPORTED SOIL VOLUME 3,425 TRUCKS OR 5.1 FEET IN TACOMA DOME

PROMENADE ALIGNMENT LEGEND
- Elevated Causeway Option
- At Grade Option
- Spur Line Option

Wall height ranges approximately 4' to 15'

Railroad car height

4' shoulder & wall zone

2' shoulder

4' ditch

10' promenade

11' drive lane

12' drive lane

4' sidewalk

10' promenade

11' drive lane

12' drive lane

4' sidewalk

10' promenade

11' drive lane

12' drive lane

4' sidewalk

10' promenade

11' drive lane

12' drive lane

4' sidewalk

10' promenade

11' drive lane

12' drive lane

4' sidewalk

10' promenade

11' drive lane

12' drive lane
At-Grade Option

**EXISTING**

**STADIUM SECTION**

- 4' sidewalk
- 5' drive lane
- 12' drive lane
- 12' left turn lane
- 4' St. Bridge/median planter/ jersey barrier

**PROPOSED**

**STADIUM SECTION**

- 4' ditch
- 10' promenade
- 2' shoulder & wall zone
- 3' shoulder
- 11' drive lane
- 11' drive lane
- 1' left turn lane
- 4' St. Bridge/median planter/jersey barrier

**EXISTING**

**FLOUR MILL SECTION**

- 4' ditch
- 10' promenade
- 2' shoulder & barrier zone
- 9' median planter
- 11' drive lane
- 11' drive lane
- 9' median planter
- 4' height

**PROPOSED OPTION 1**

**FLOUR MILL SECTION - CUT SLOPE OPTION**

- 4' ditch
- 10' promenade
- 2' shoulder & barrier zone
- 11' drive lane
- 11' drive lane
- 9' median planter
- 4' height

**PROPOSED OPTION 2**

**FLOUR MILL SECTION - WALL OPTION**

- 4' ditch
- 10' promenade
- 3' shoulder
- 11' drive lane
- 11' drive lane
- 9' median planter
- 4' height

**PROMENADE ALIGNMENT LEGEND**

- Elevated Causeway Option
- At Grade Option
- Spur Line Option

EXCAVATED SOIL VOLUME 1,975 TO 6,525 TRUCKS OR 4.3 TO 9.6 FEET IN TACOMA DOME

IMPORTED SOIL VOLUME 1,270 TRUCKS OR 2 FEET IN TACOMA DOME

Old Town section same as elevated Causeway proposed section
Old Spur Line Option

EXCAVATED SOIL VOLUME 4,870 TRUCKS OR 7.2 FEET IN TACOMA DOME
IMPORTED SOIL VOLUME 1,448 TRUCKS OR 2.2 FEET IN TACOMA DOME

EXISTING
STADIUM SECTION

PROPOSED
STADIUM SECTION

EXISTING
FLOUR MILL SECTION

PROPOSED
FLOUR MILL SECTION

PROMENADE ALIGNMENT LEGEND
- Elevated Causeway Option
- At Grade Option
- Spur Line Option

Old Town section same as elevated Causeway proposed section
Example Photos
STADIUM SEGMENT NOTES:

ALL ALTERNATIVE ALIGNMENTS INCLUDE:
- Requirement to be at existing grade at SE 4th St.
- No impact to existing roadway to maintain left turn lane and 2 through lanes at SE 4th Street.
- No impacts to existing slope stability.
- Utilize two areas where existing sidewalk is separated from road.
- Access to lower stadium bowl area is impacted. New access feasible at station 31.

ELEVATED ALTERNATIVE
- North of station 18 elevated promenade up to about 14 feet in height.

AT-GRADE ALTERNATIVE
- Configuration is same as elevated alternative up to station 31 due to landslide, soil creep and drainage concerns.
- Beyond station 31 tied back soldier pile wall, height up to 32 feet.

ROAD DIET ALTERNATIVE (16-Feet Lane)
- Begins after station 18.
- Minimal impacts to existing slope.

SPUR LINE ALTERNATIVE
- Begins after station 31.
- Similar to elevated alternative but increases in height up to spur line bench after station 31.
- Shoring wall required in some narrow areas, height up to 20 feet.
- Spur line bench after station 31.
Flour Mill Segment

**FLOUR MILL SEGMENT NOTES:**

**ALL ALTERNATIVE ALIGNMENTS INCLUDE:**
- Mid-slope surface drainage improvements to address drainage.
- Slope regrading recommended to address vertical slopes between 47 to 53+50.
- Requirement to be at grade at Garfield Gulch.
- No impacts to existing slope stability.

**ELEVATED ALTERNATIVE**
- Wall heights up to about 12 to 20 feet, could be reduced by about half if median is reconfigured and lanes narrowed between 43 to 62.
- With wall heights below 20 feet it is still difficult to see over train car.
- Wall height required to support future cross over to waterfront about 28 feet high for clearance.

**AT-GRADE ALTERNATIVE INCLUDES TWO OPTIONS:**
- Slope cut – regrade slope to 3H:1V, mid slope bench, and 1H:1V slope above.
- Tied back shoring wall high enough to create 10-foot wide bench behind top of wall for drainage, erosion control, catchment, and facilitate access for maintenance. Wall height up to 32 feet.
- Wall heights can be reduced if median is reconfigured and lanes narrowed between 43 to 62.
- Road diet alternative (16-feet lane)
- Only feasible up to station 53+50 to accommodate merge for N. 30th Street and Ruston Way.

**SPUR LINE ALTERNATIVE**
- Utilizes spur line bench where it is still present, shoring walls and grading required.
- Promenade surface slopes up to elevation 80 at station 56 then slopes down to Garfield Gulch.
- Existing road is at about elevation 12.
- No impacts to existing lower slope road between station 37 and station 56.
- Requires tied back shoring wall between stations 41 to 47 at narrow section.
- North of station 56 slope cut is required to establish bench for promenade down to Garfield Gulch.
- Promenade elevation would support future cross over to waterfront near station 67.
- Spur line alternative ends at Garfield Gulch (station 71).
Old Town Segment

OLD TOWN SEGMENT NOTES:

- All alignment alternatives are the same and fit within the reconfigured improved row.
- Existing road is reconfigured, speed reduced (narrowed from 16-feet wide to 11-feet).
- Elevating a few feet would allow for wider catchment ditch.
- Without road reconfiguration, significant cost impacts for required shoring walls.

PROMENADE ALIGNMENT LEGEND
- Elevated Causeway Option
- At Grade Option
- Spur Line Option
At-Grade Option - Road Diet/Lane Conversion

EXISTING
STADIUM SECTION
4' sidewalk 12' drive lane 12' drive lane

EXISTING
FLOUR MILL SECTION
4' sidewalk 12' drive lane 12' drive lane 9' median planter 12' drive lane

PROPOSED
STADIUM SECTION
4' ditch 10' promenade 2' shoulder & barrier zone 16' drive lane

PROPOSED
FLOUR MILL SECTION
4' ditch 10' promenade 2' shoulder & barrier zone 16' drive lane 9' median varies drive lane

PROMENADE ALIGNMENT LEGEND
- Elevated Causeway Option
- At Grade Option
- Spur Line Option

EXCAVATED SOIL VOLUME 3,404 TRUCKS OR 5.0 FEET IN TACOMA DOME
IMPORTED SOIL VOLUME 254 TRUCKS OR 0.4 FEET IN TACOMA DOME

Old Town section same as elevated Causeway proposed section