



Comparison of Conceptual
Engineering and Preliminary
Engineering—
BART Extension Project
Plans and Profiles



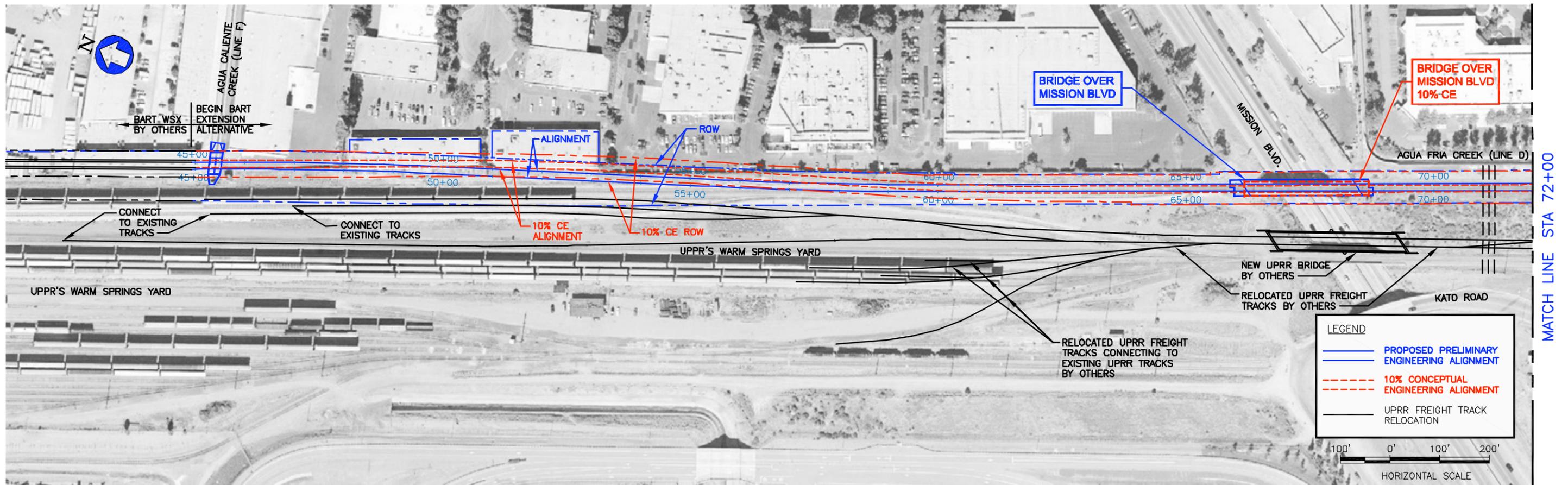
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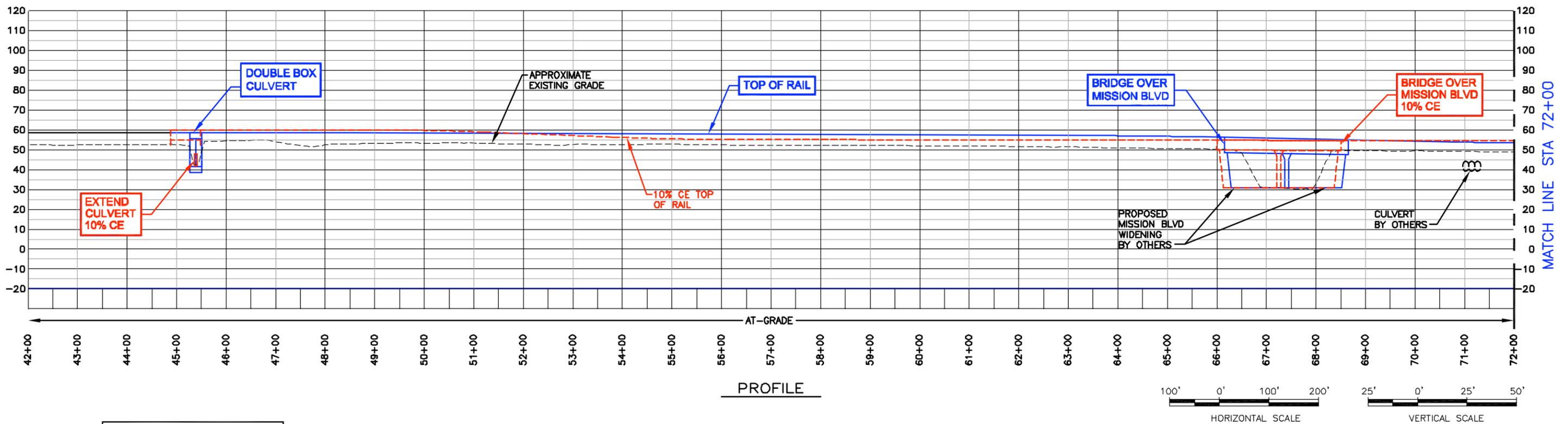
Figure B-1

APPENDIX B
COMPARISON OF CONCEPTUAL ENGINEERING AND PRELIMINARY ENGINEERING – BART EXTENSION PROJECT PLANS AND PROFILES
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PLAN

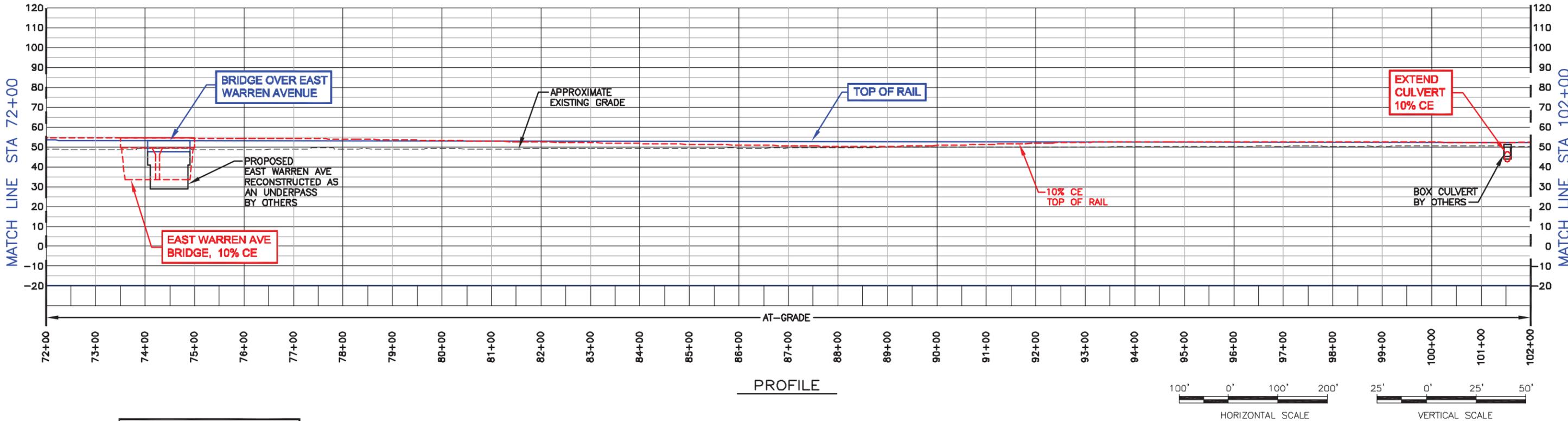
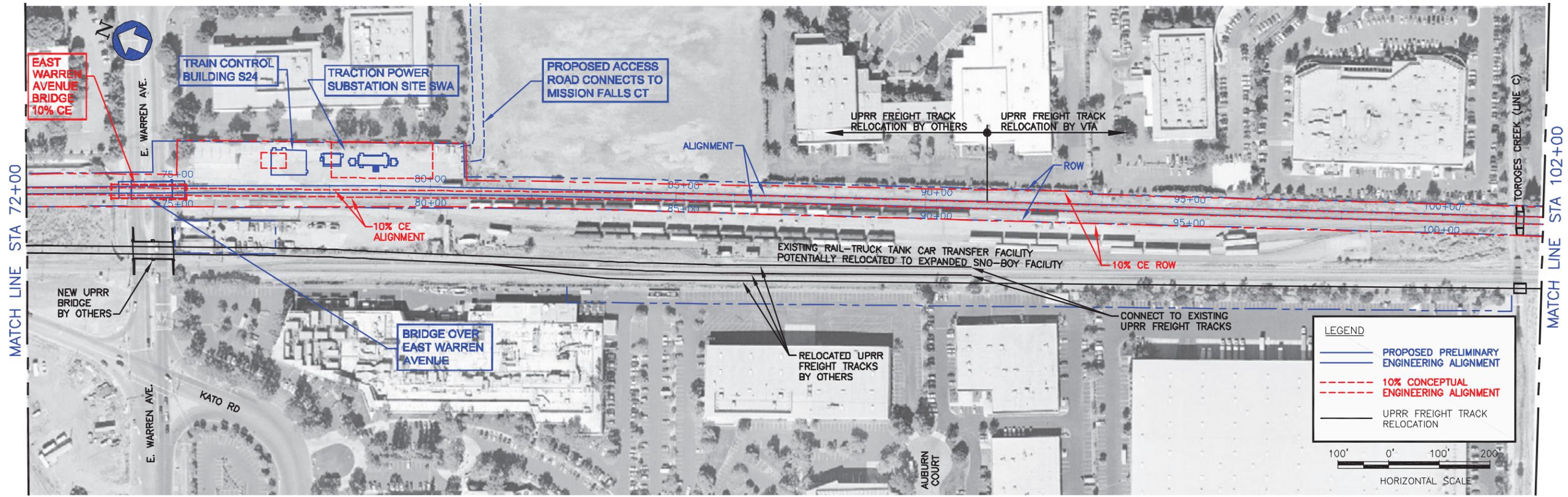


PROFILE

DRAWING IS SCHEMATIC AND FOR ALIGNMENT COMPARISON PURPOSES ONLY.

Figure B-3

BART EXTENSION PROJECT
 EAST WARREN AVENUE
 AT GRADE OPTION: SHEET 1 OF 2
 PLAN AND PROFILE
 STA 42+00 TO STA 72+00

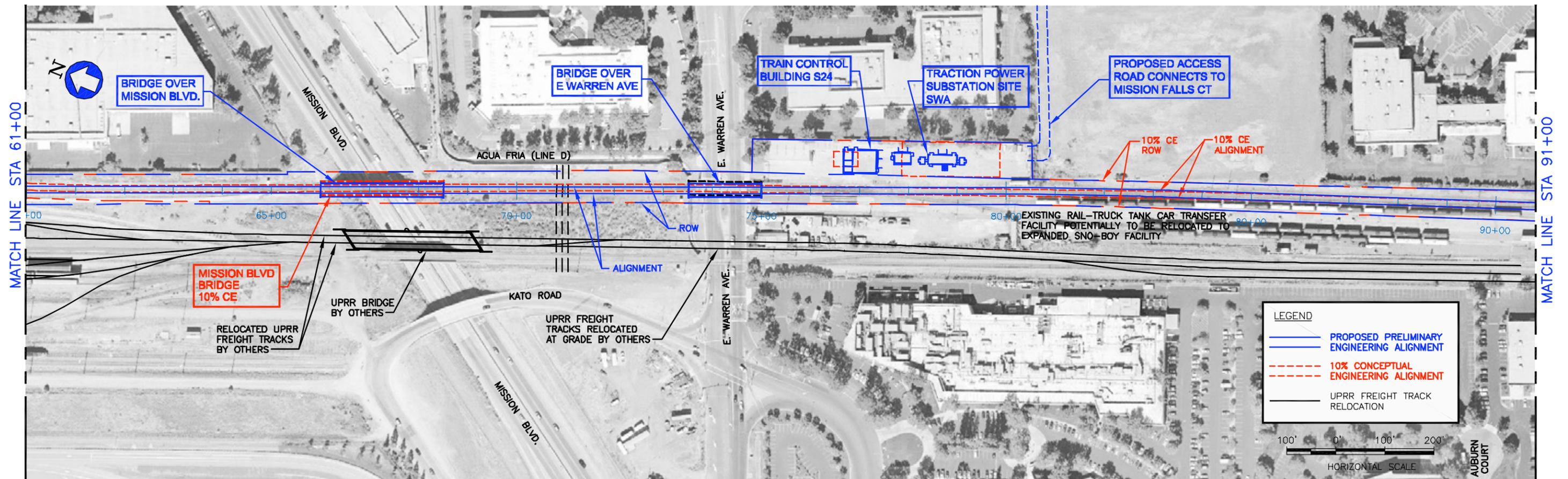


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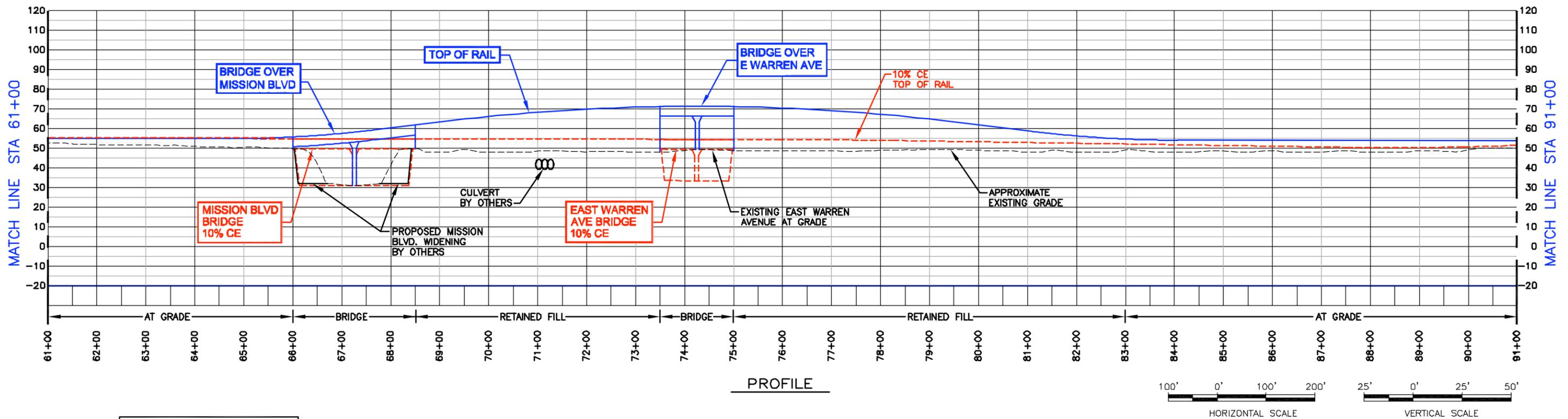
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BART EXTENSION PROJECT
 EAST WARREN AVENUE
 AT GRADE OPTION: SHEET 2 OF 2
 PLAN AND PROFILE
 STA 72+00 TO STA 102+00

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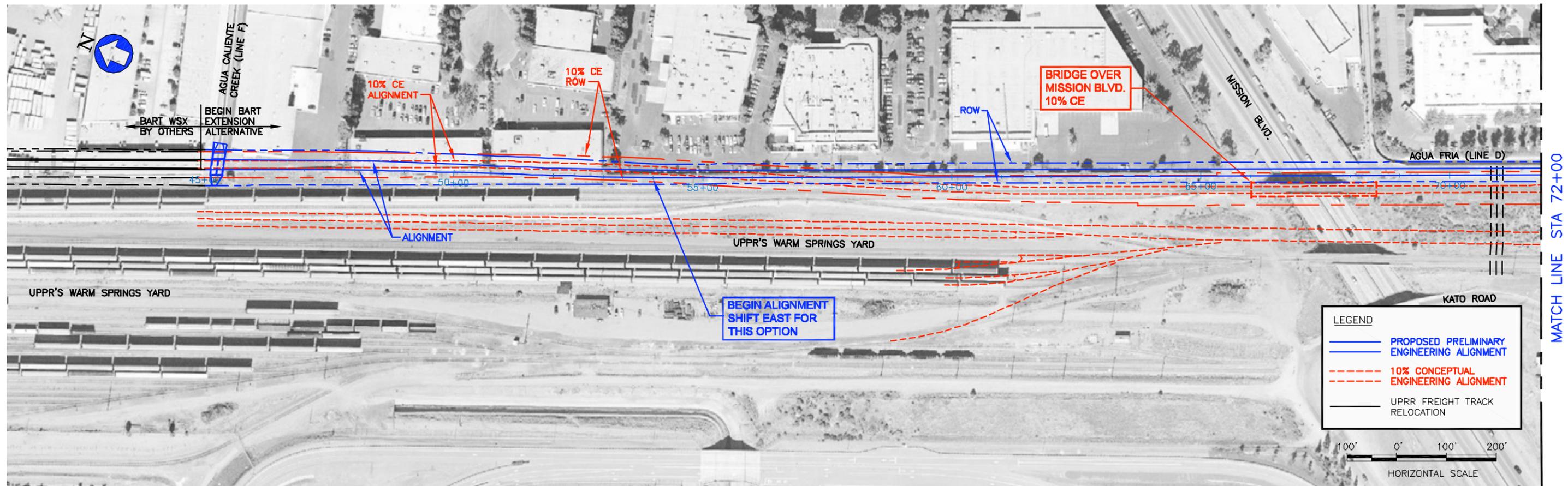
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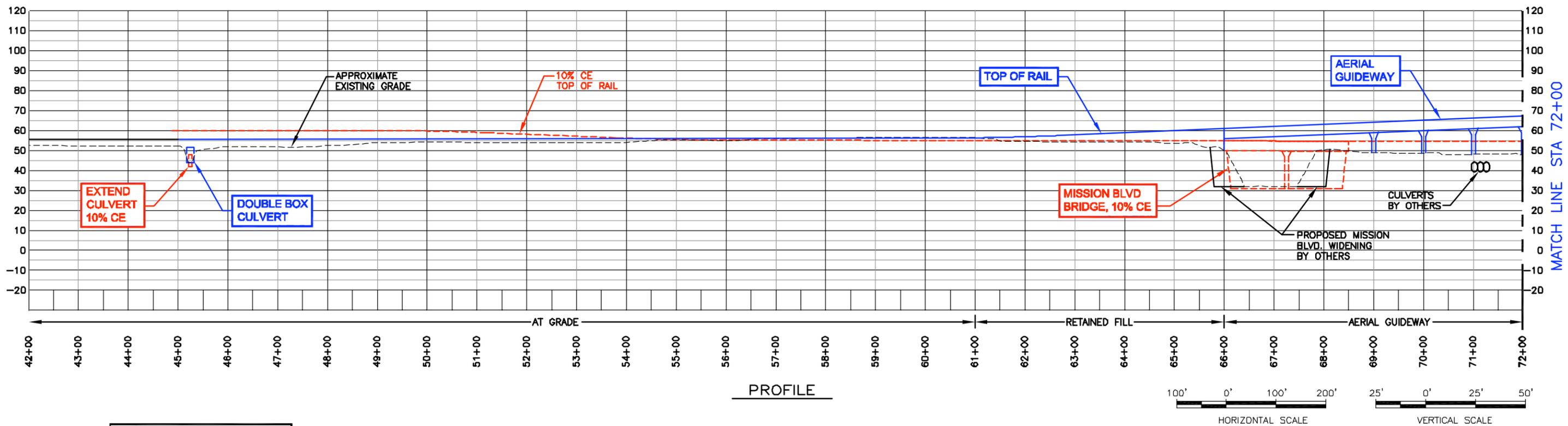
Figure B-5

BART EXTENSION PROJECT
 EAST WARREN AVENUE
 AERIAL OPTION: SHEET 1 OF 1
 PLAN AND PROFILE
 STA 42+00 TO STA 72+00

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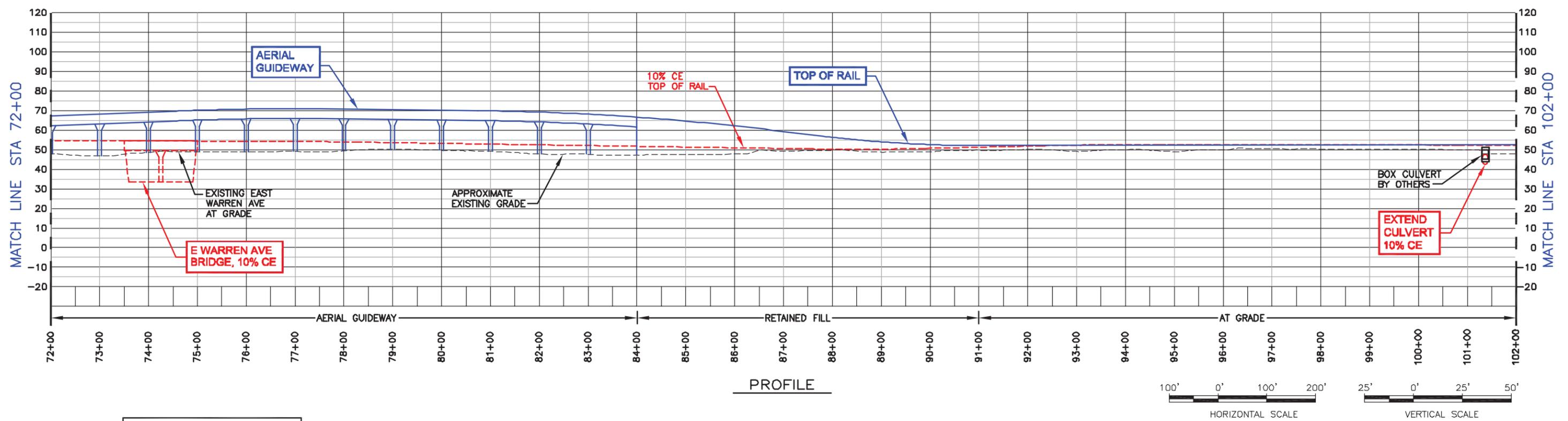
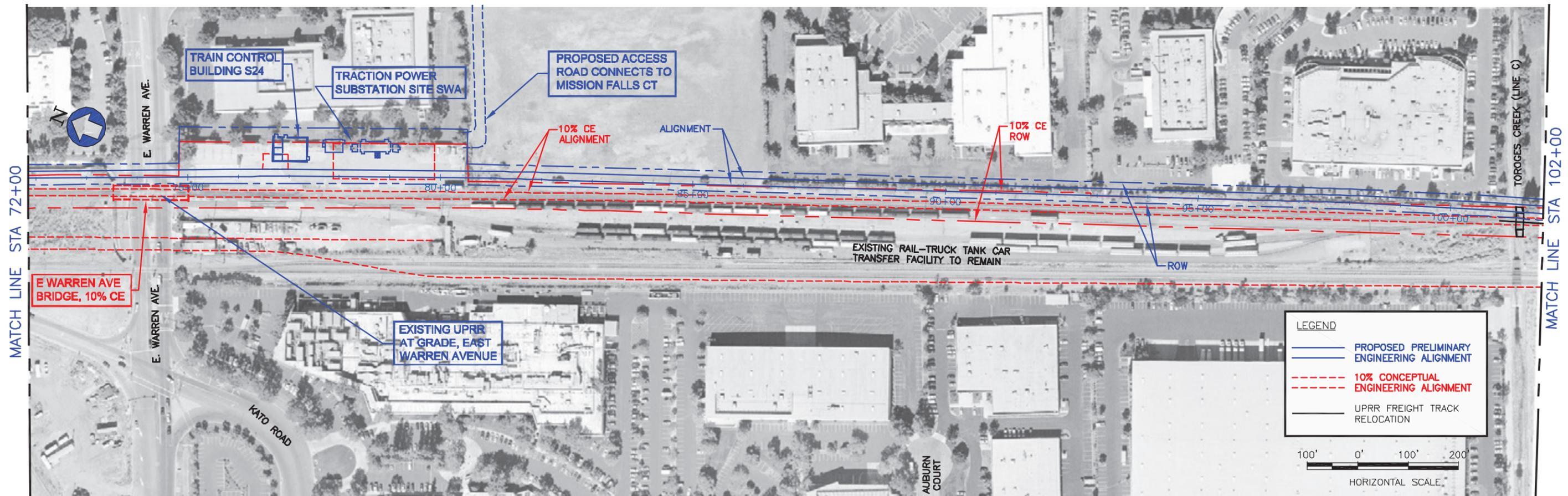


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Figure B-6

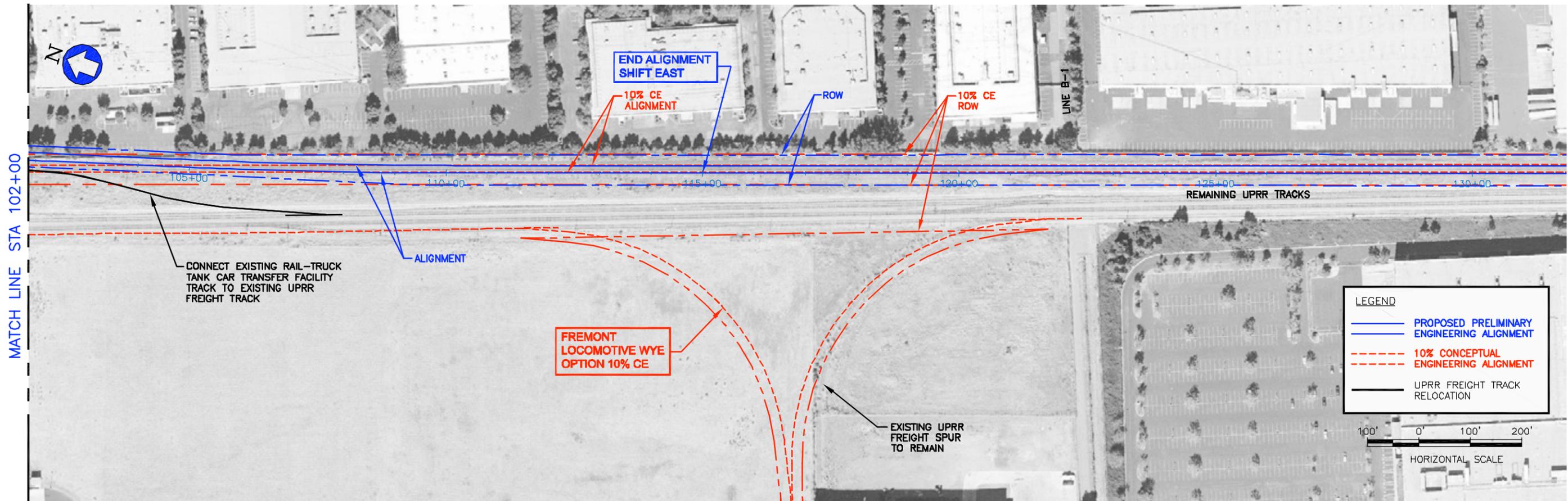
BART EXTENSION PROJECT
 EAST WARREN AVENUE
 AERIAL EAST OPTION: SHEET 1 OF 3
 PLAN AND PROFILE
 STA 42+00 TO STA 72+00



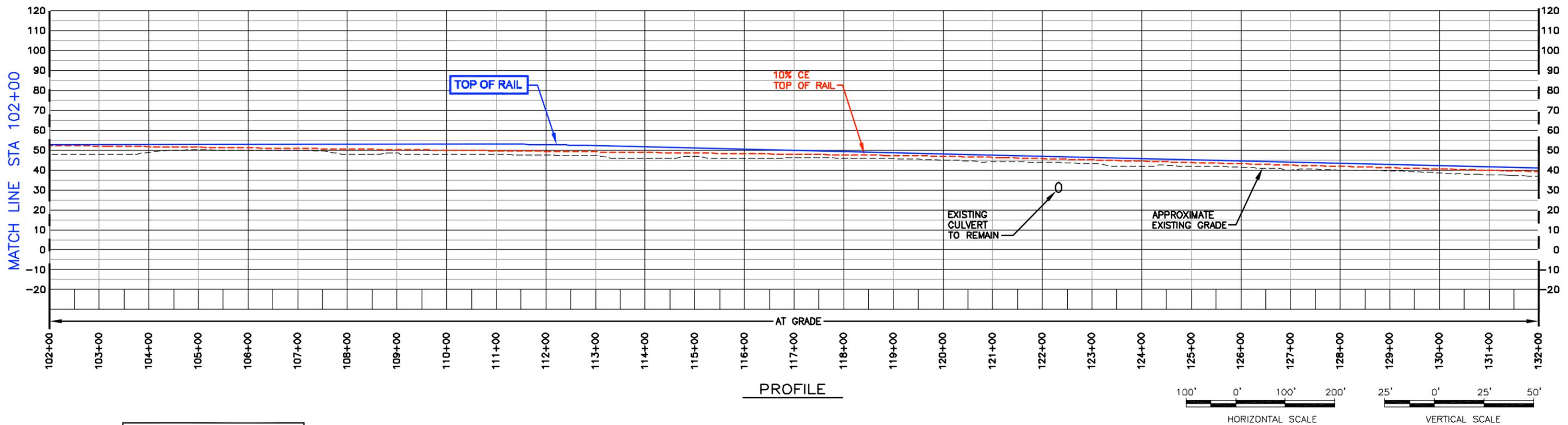
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Figure B-7

BART EXTENSION PROJECT
EAST WARREN AVENUE
AERIAL EAST OPTION: SHEET 2 OF 3
PLAN AND PROFILE
STA 72+00 TO STA 102+00



PLAN

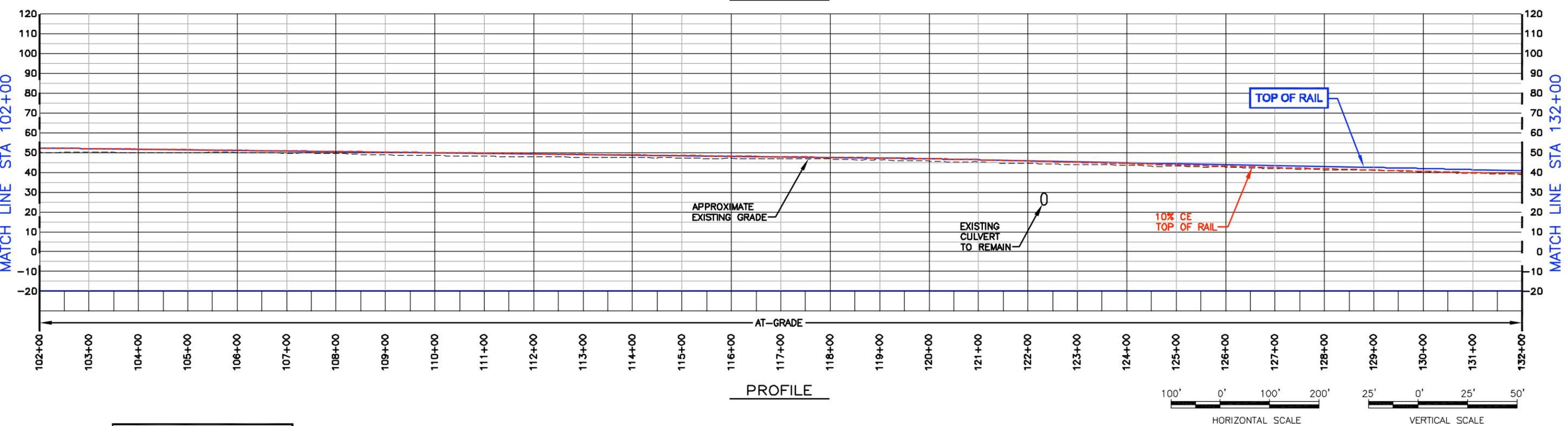
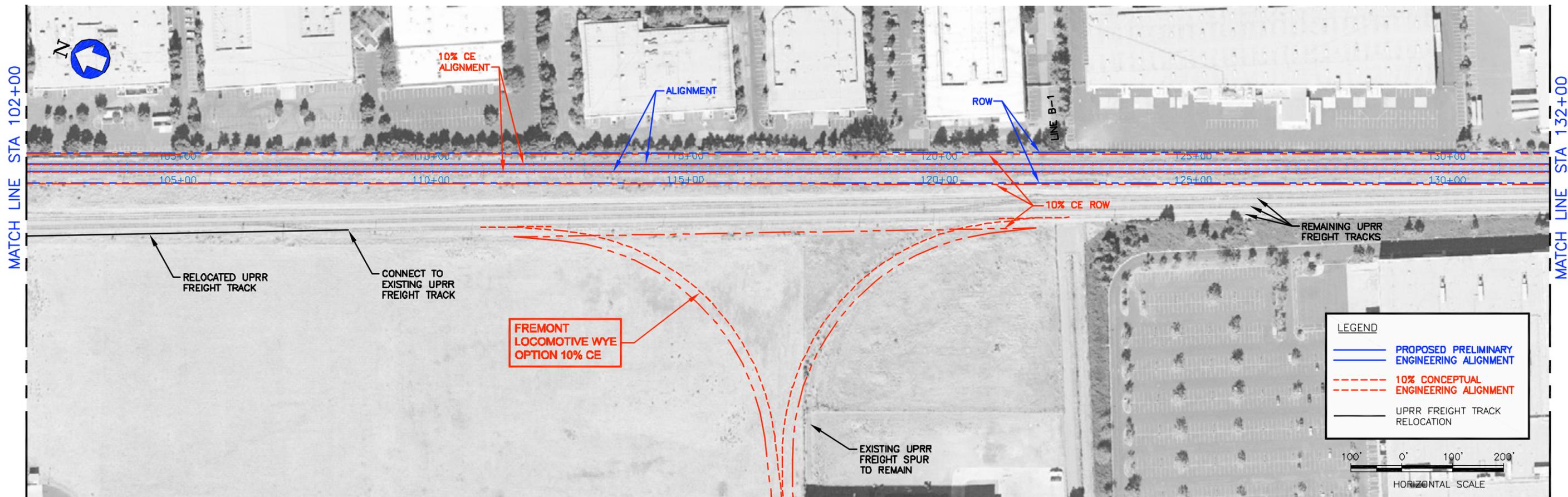


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Figure B-8

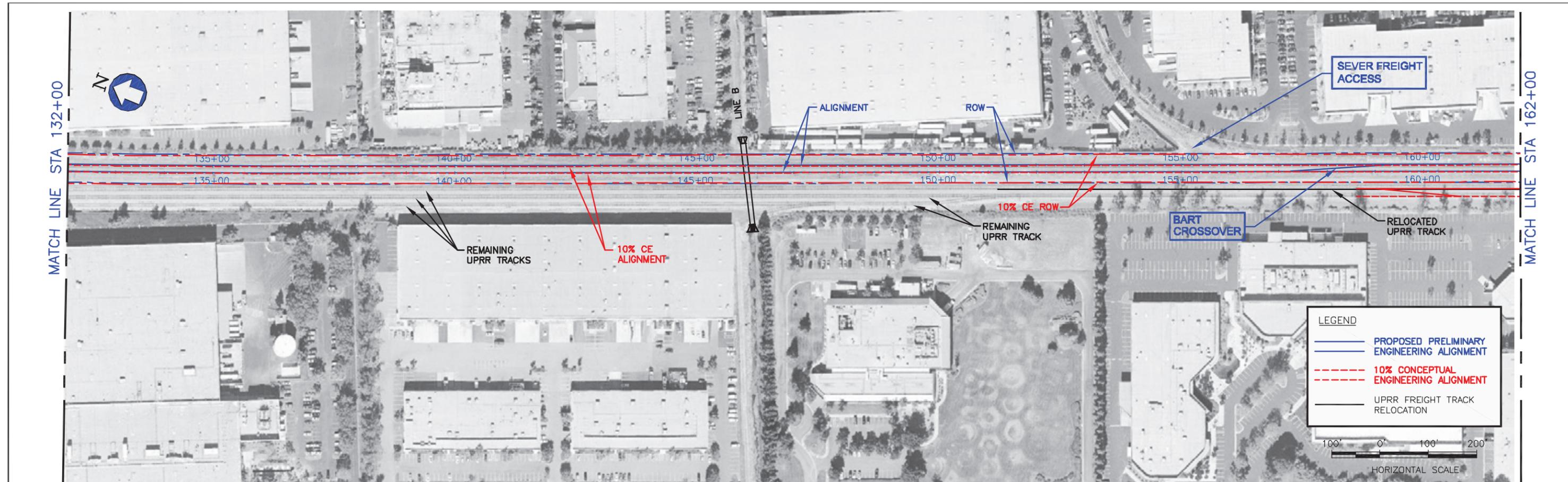
BART EXTENSION PROJECT
 EAST WARREN AVENUE
 AERIAL EAST OPTION: SHEET 3 OF 3
 PLAN AND PROFILE
 STA 102+00 TO STA 132+00



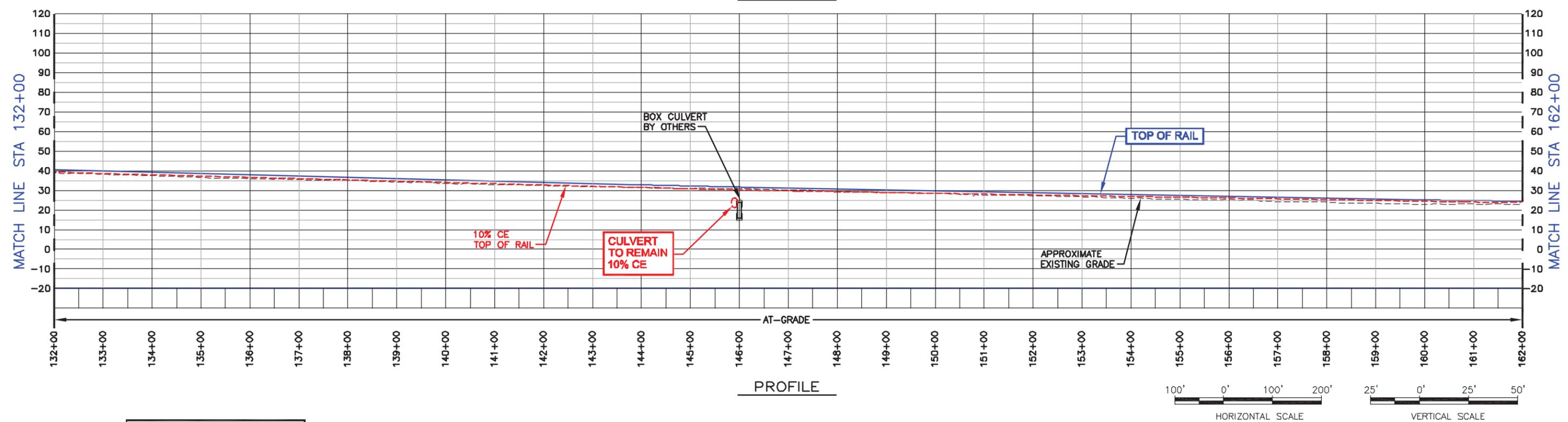
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Figure B-9

BART EXTENSION PROJECT
 PROPOSED PE ALIGNMENT
 PLAN AND PROFILE
 STA 102+00 TO STA 132+00



PLAN



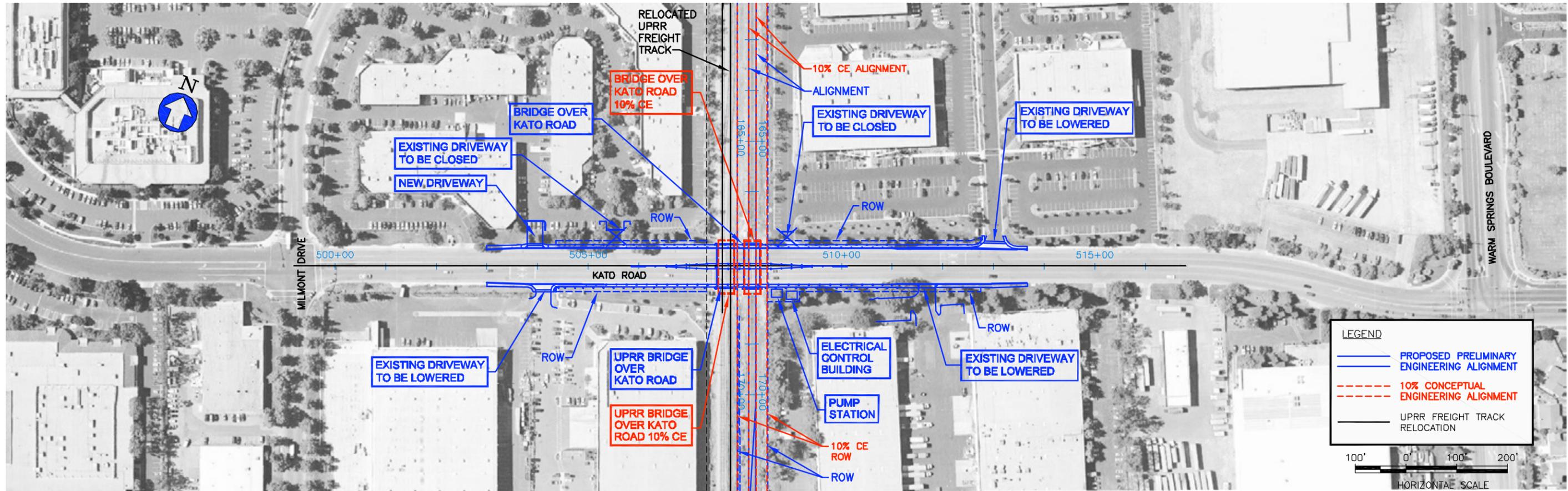
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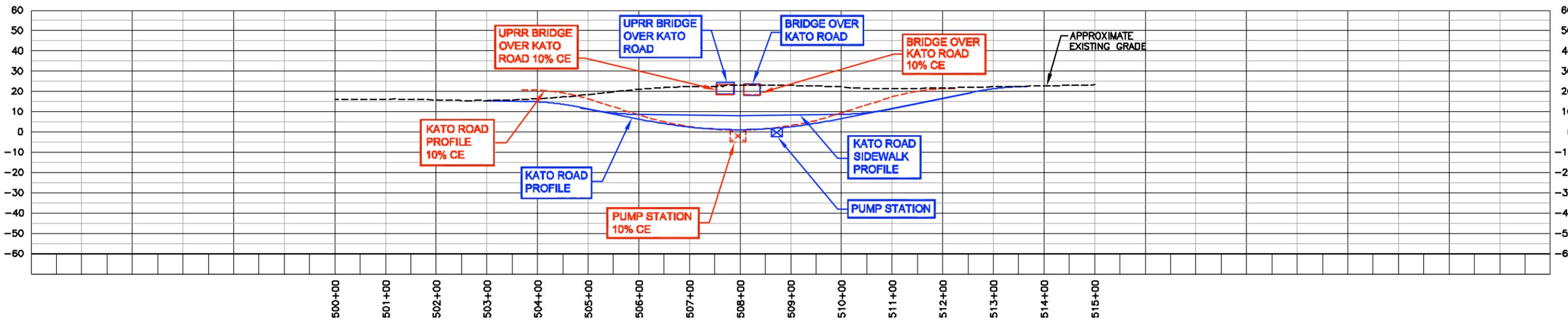
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BART EXTENSION PROJECT
 PROPOSED PE ALIGNMENTS
 PLAN AND PROFILE
 STA 132+00 TO STA 162+00

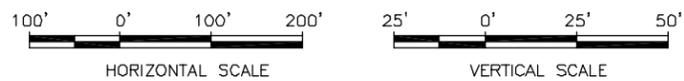
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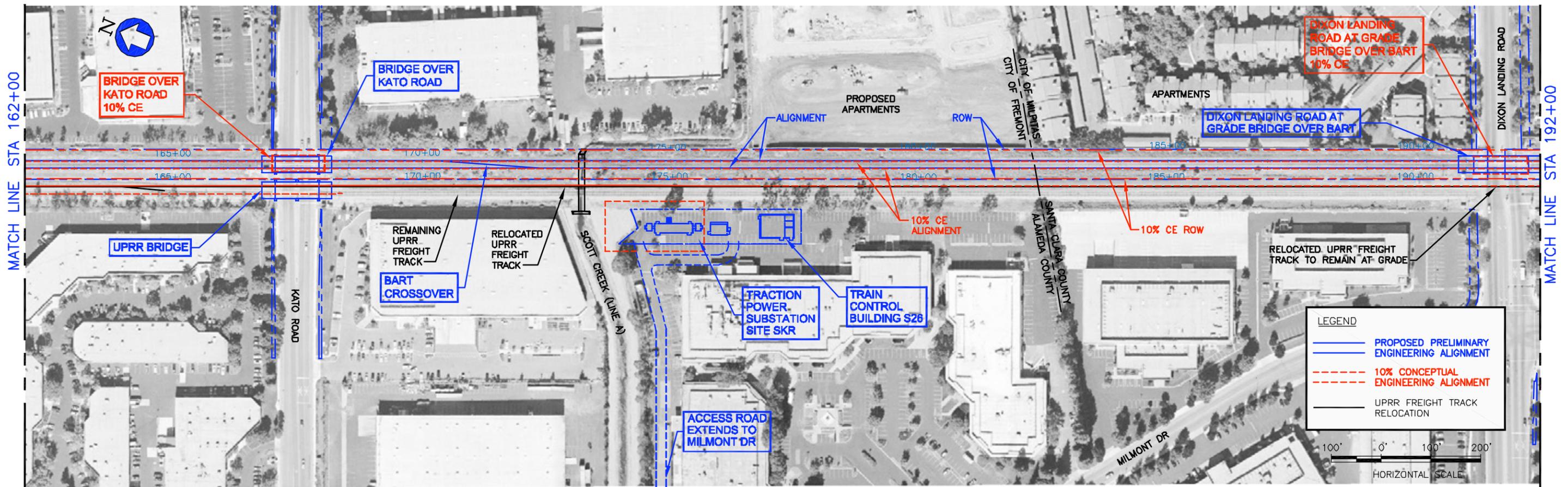


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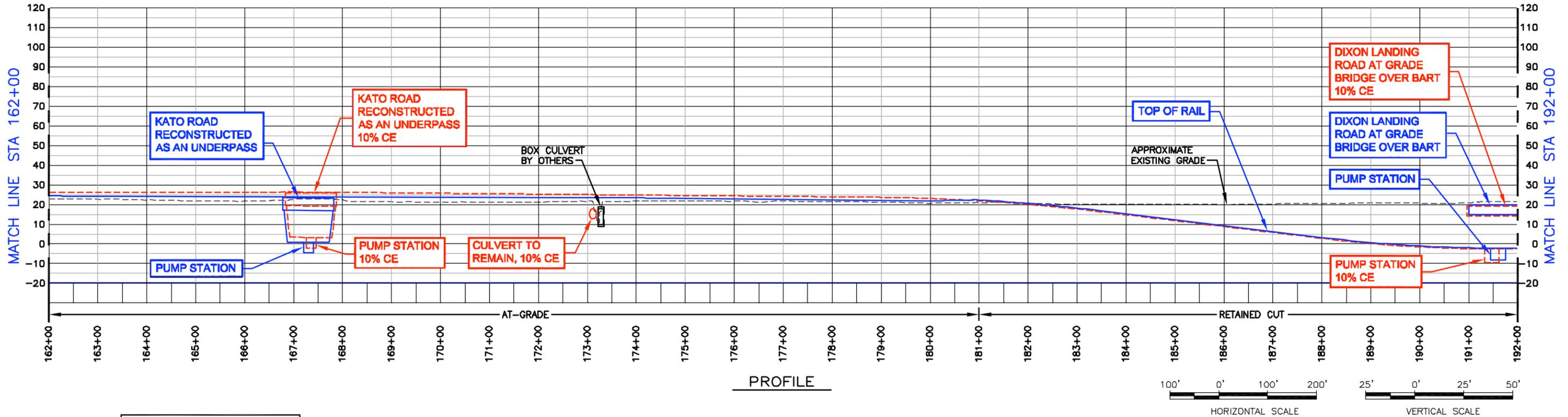
BART EXTENSION PROJECT
 KATO ROAD
 LOWERED ROADWAY - SHEET 1 OF 1
 PLAN AND PROFILE
 STA 500+00 TO STA 515+00

Figure B-11

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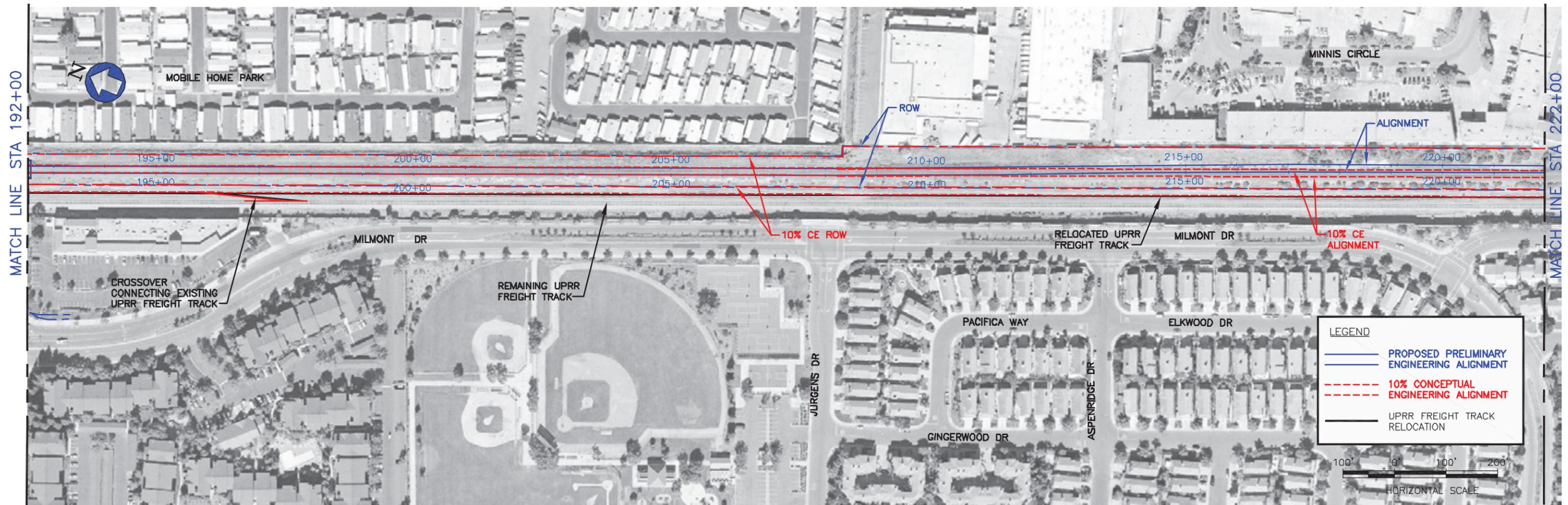
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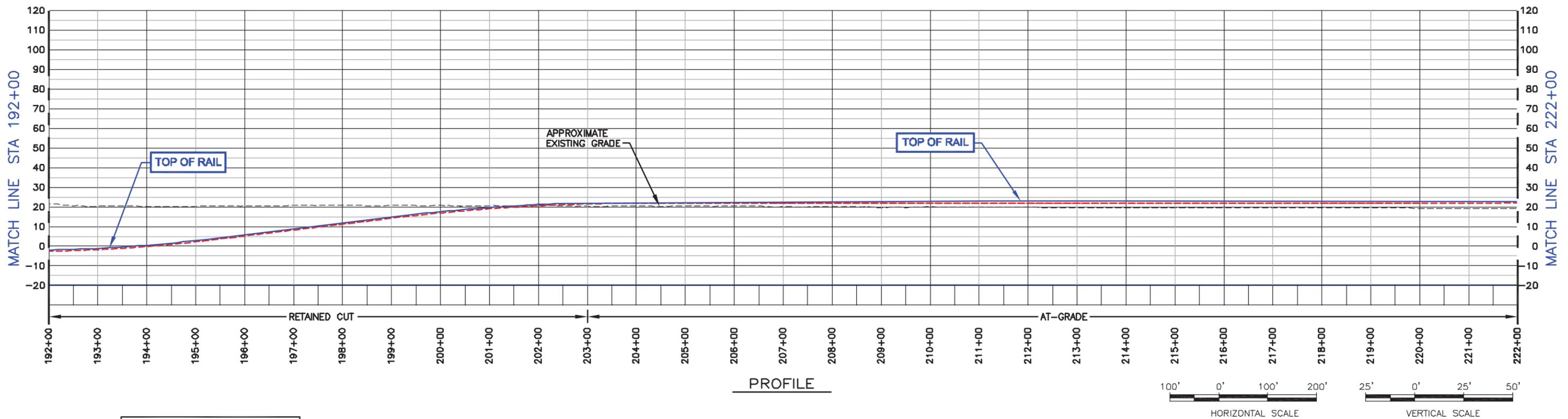
BART EXTENSION PROJECT
 DIXON LANDING ROAD
 RETAINED CUT OPTION: SHEET 1 OF 2
 PLAN AND PROFILE
 STA 162+00 TO STA 192+00

Figure B-12

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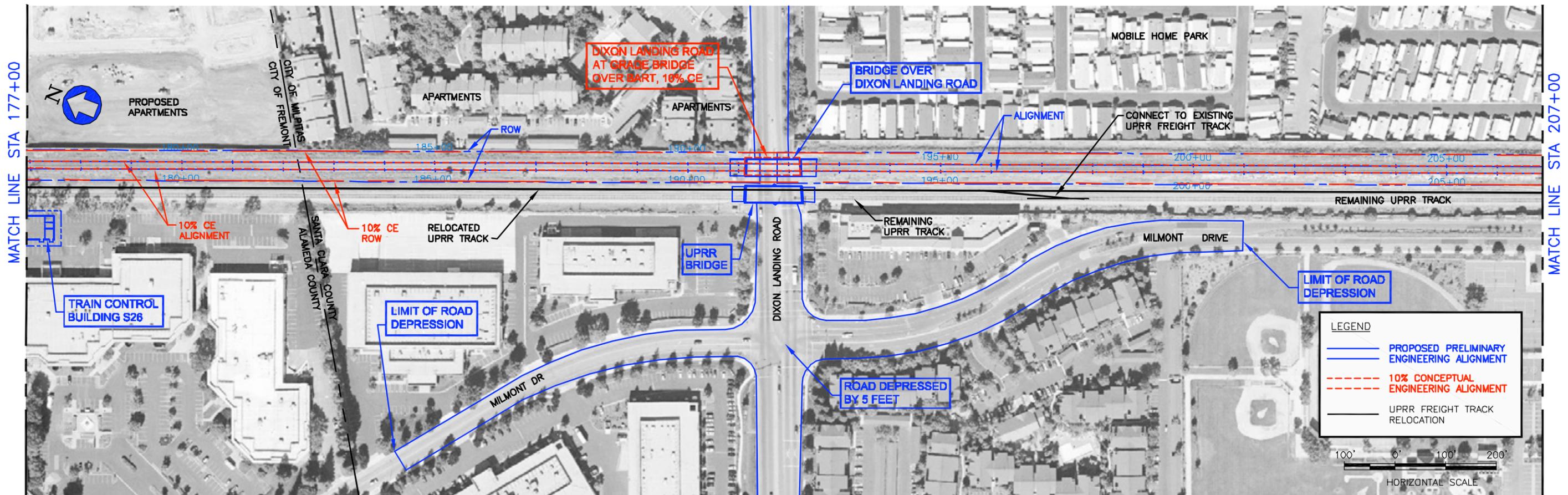


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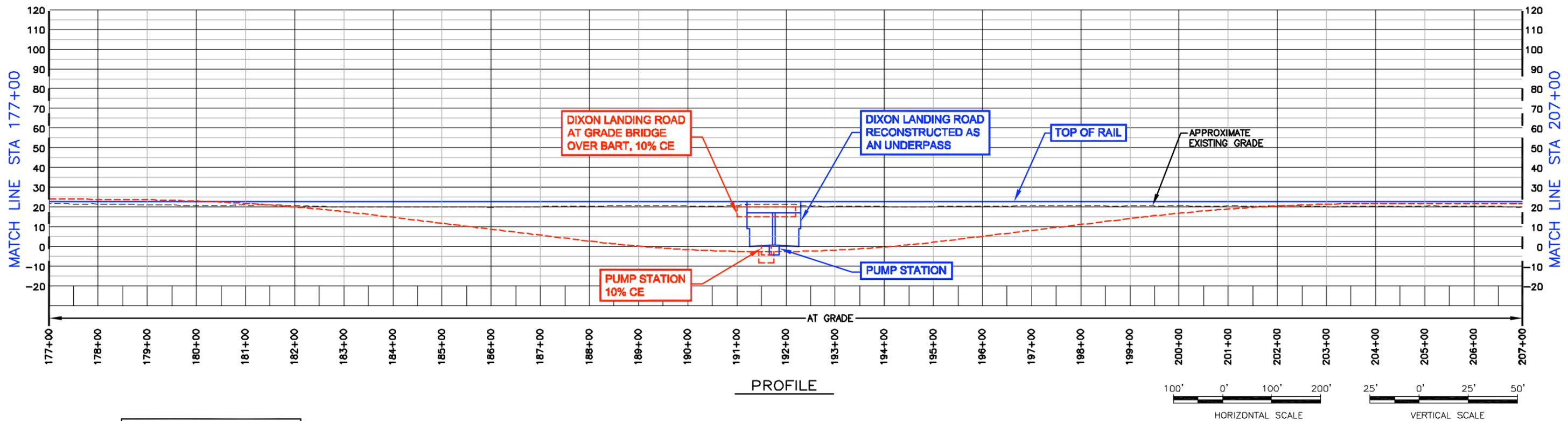
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Figure B-13

BART EXTENSION PROJECT
 DIXON LANDING ROAD
 RETAINED CUT OPTION: SHEET 2 OF 2
 PLAN AND PROFILE
 STA 192+00 TO STA 222+00



PLAN



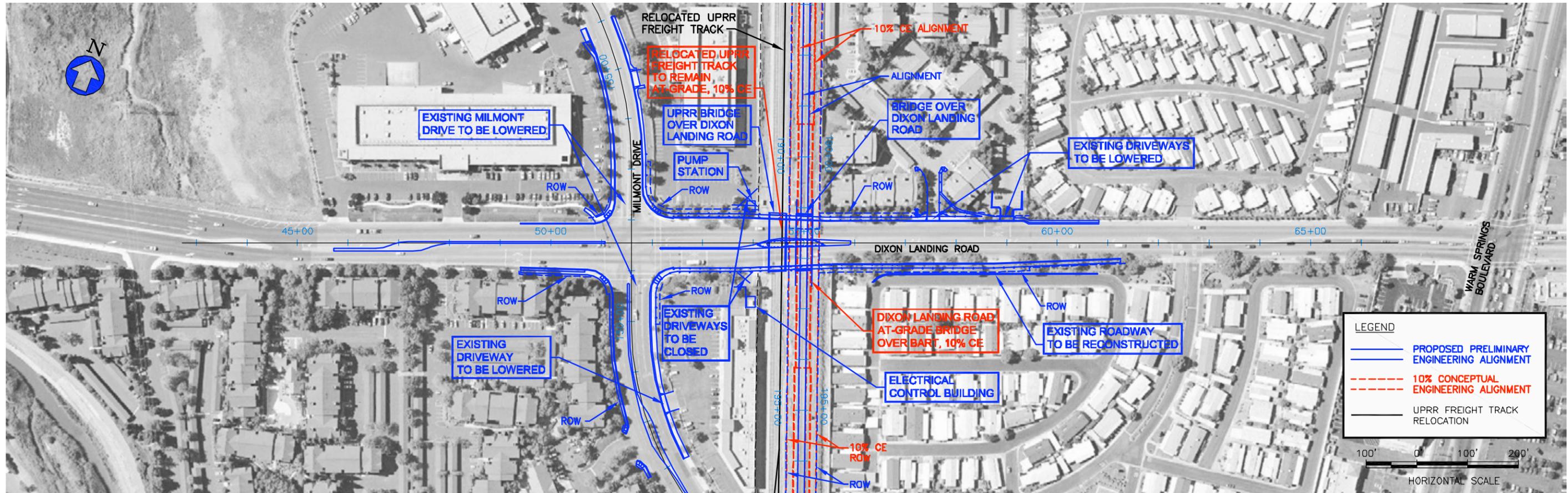
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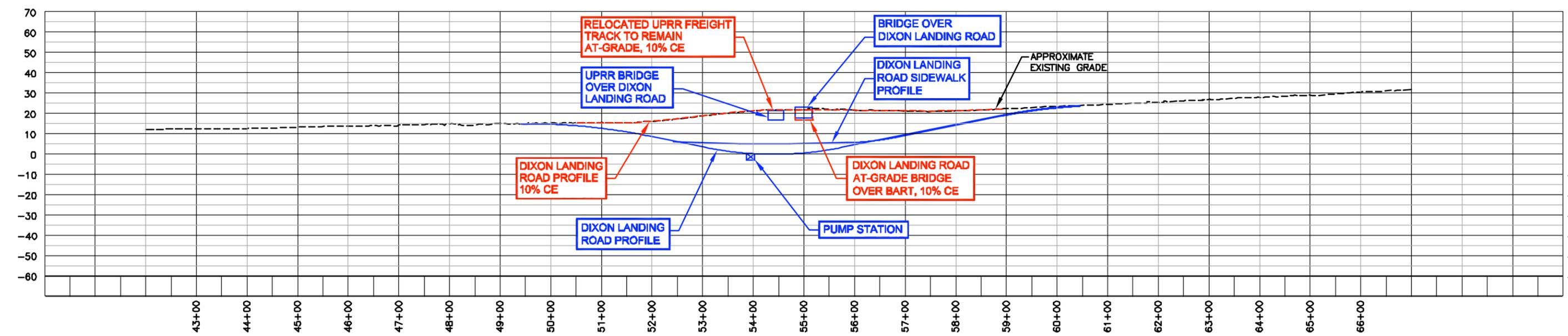
BART EXTENSION PROJECT
 DIXON LANDING ROAD
 BART AT GRADE OPTION: SHEET 1 OF 1
 PLAN AND PROFILE
 STA 177+00 TO STA 207+00

Figure B-14

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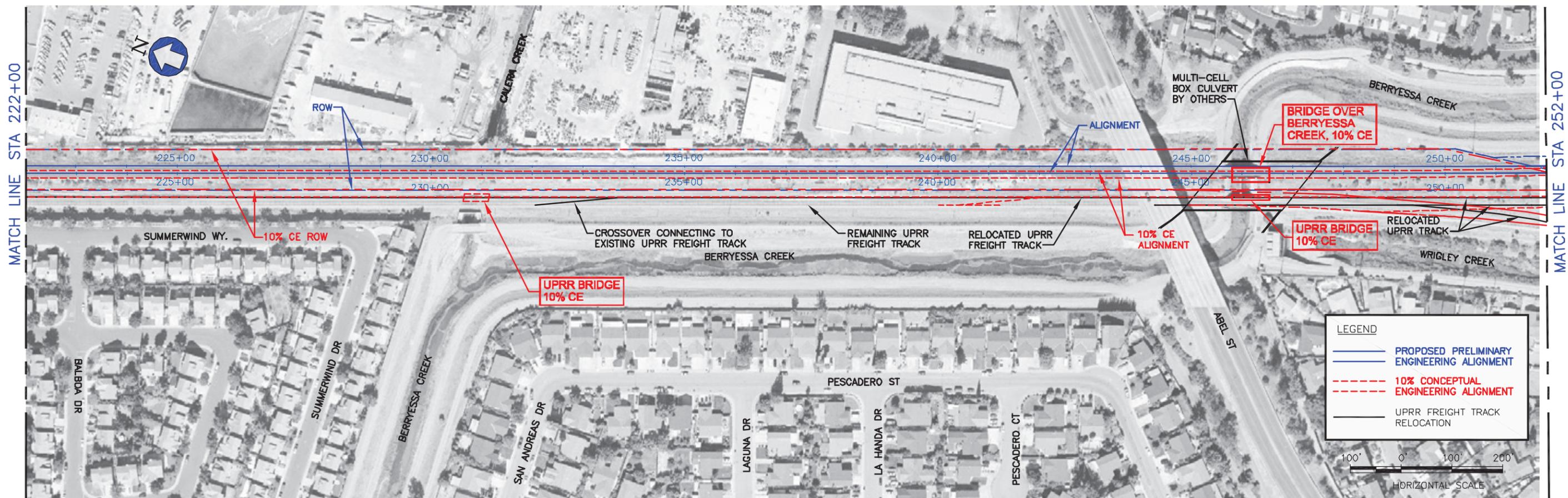
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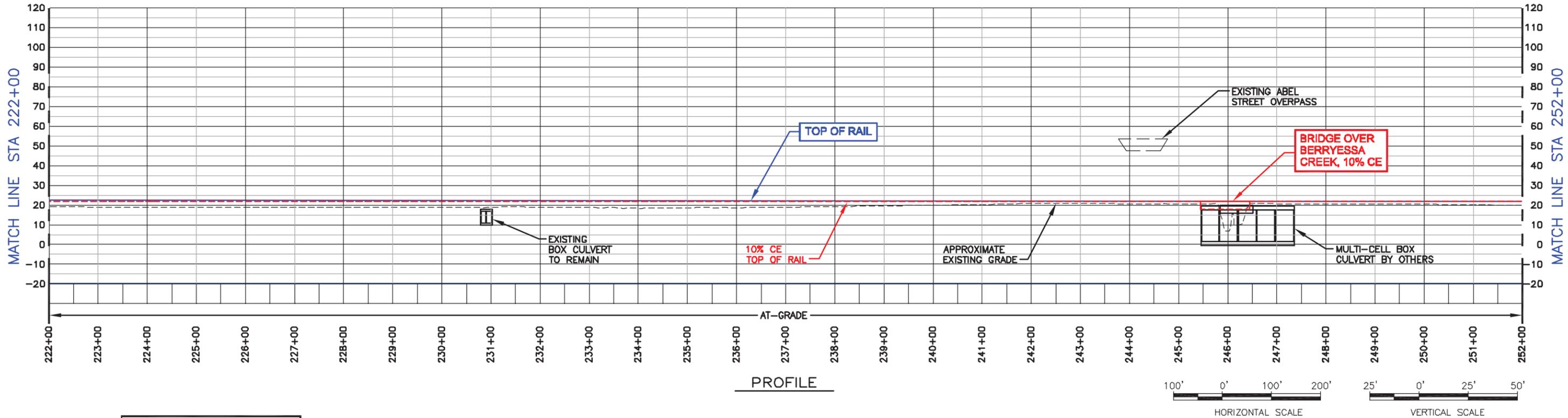
Figure B-15

BART EXTENSION PROJECT
 DIXON LANDING ROAD - BART AT-GRADE OPTION
 LOWERED ROADWAY - SHEET 1 OF 1
 PLAN AND PROFILE
 STA 43+00 TO STA 66+00

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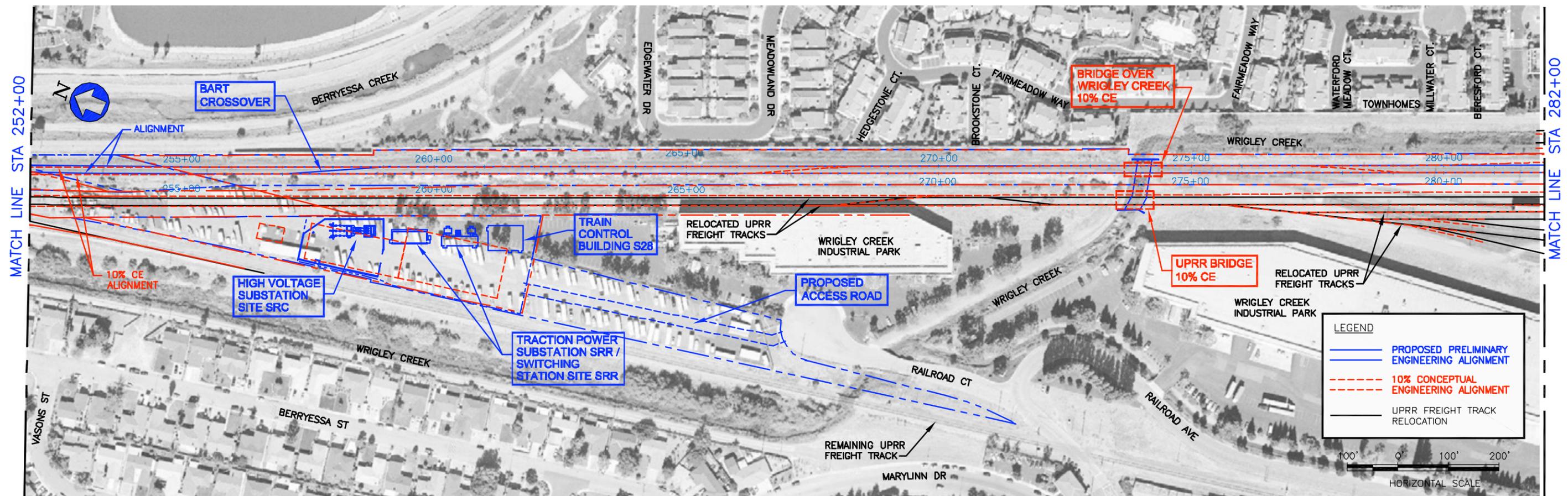
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BART EXTENSION PROJECT
 PROPOSED PE ALIGNMENTS
 PLAN AND PROFILE
 STA 222+00 TO STA 252+00

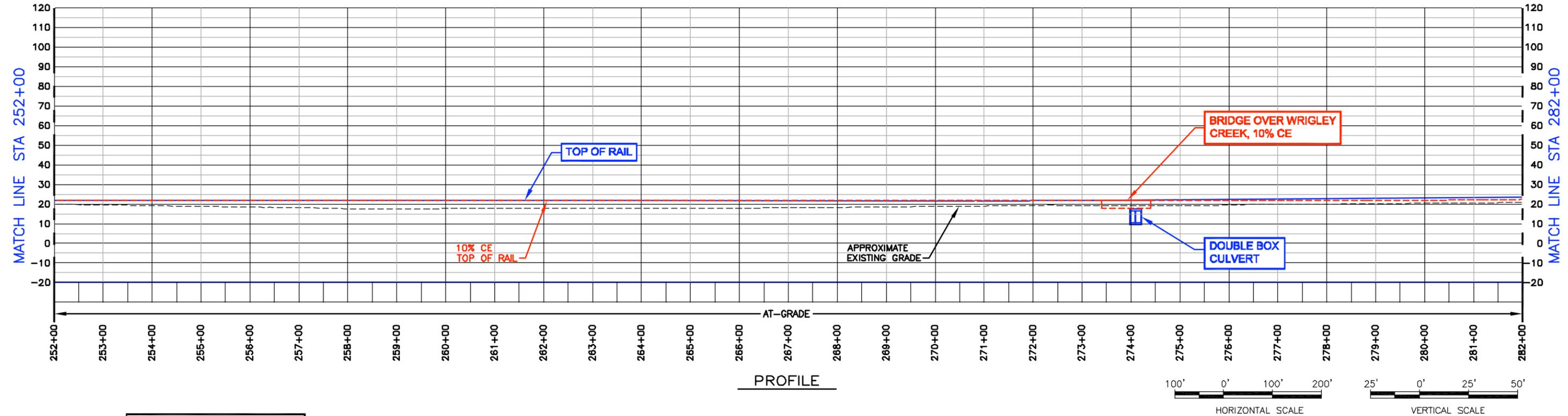
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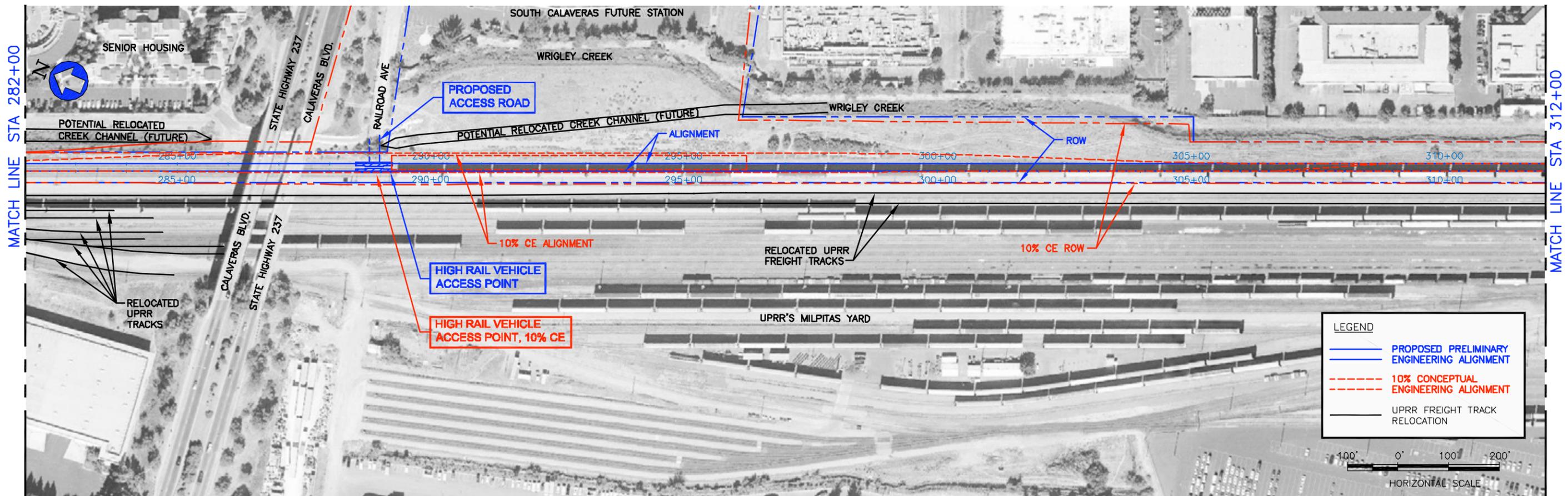
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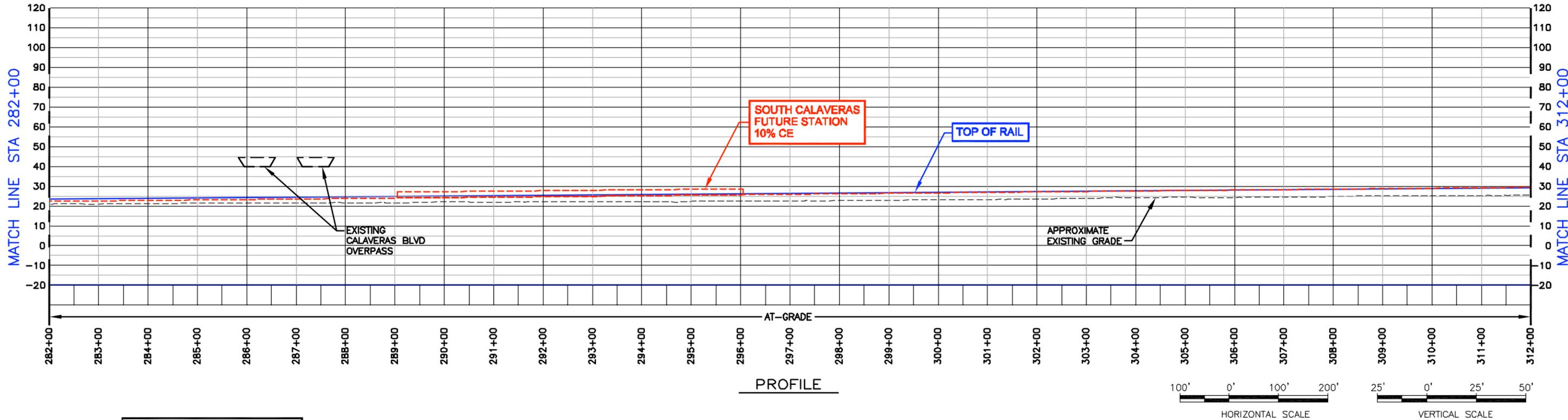
BART EXTENSION PROJECT

PROPOSED PE ALIGNMENTS
PLAN AND PROFILE
STA 252+00 TO STA 282+00

Figure B-17



PLAN



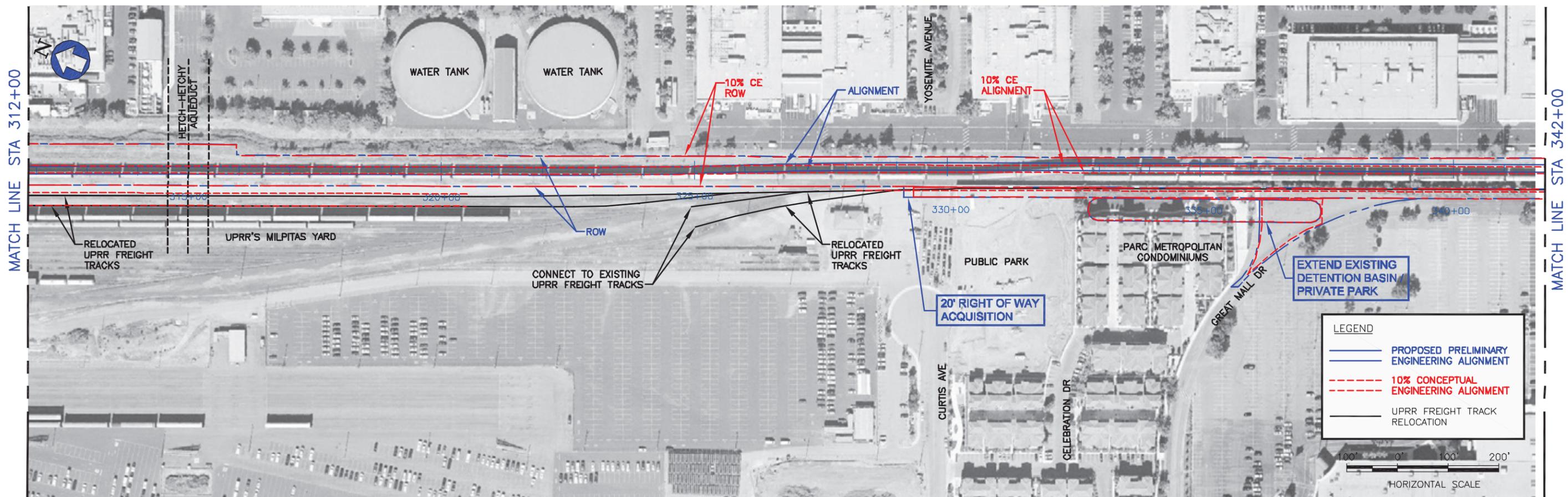
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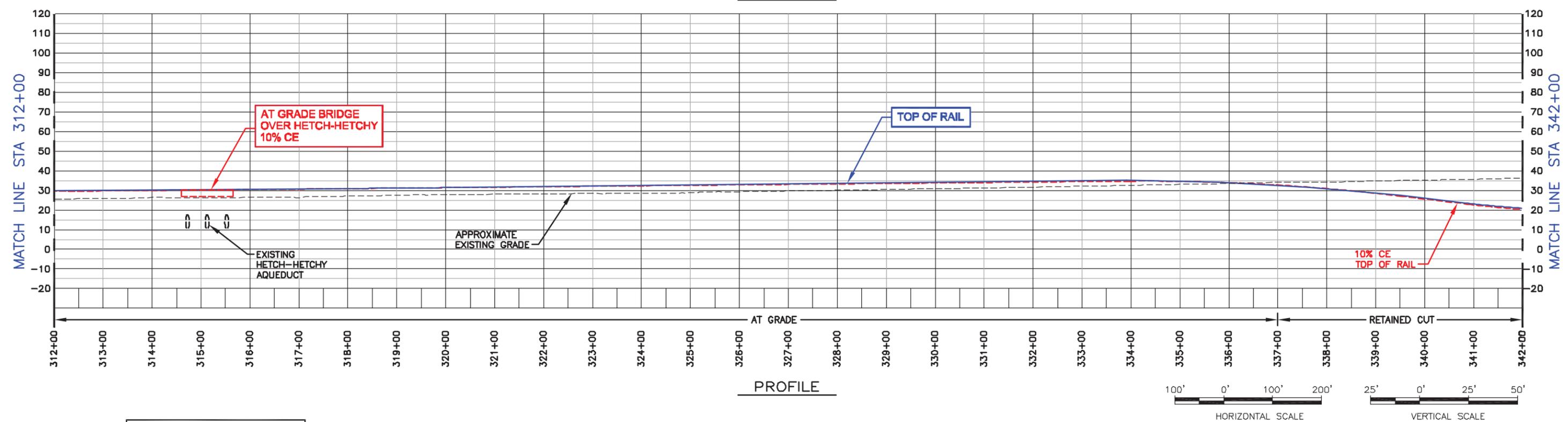
BART EXTENSION PROJECT
 PROPOSED PE ALIGNMENTS
 PLAN AND PROFILE
 STA 282+00 TO STA 312+00

Figure B-18

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PROFILE

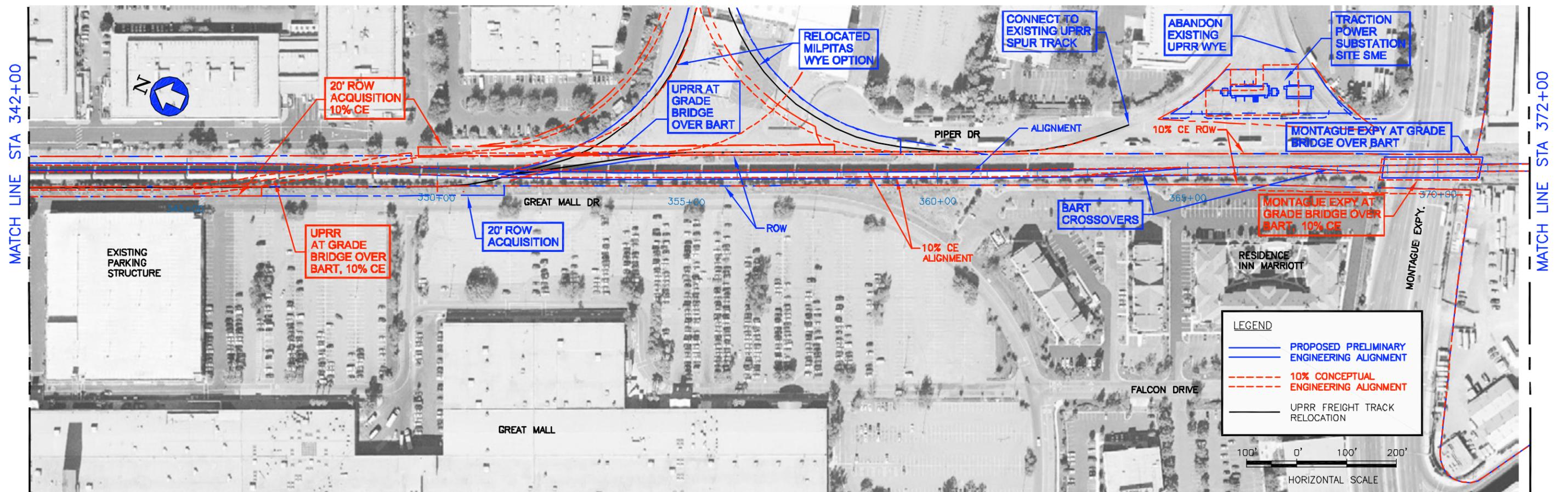
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Figure B-19

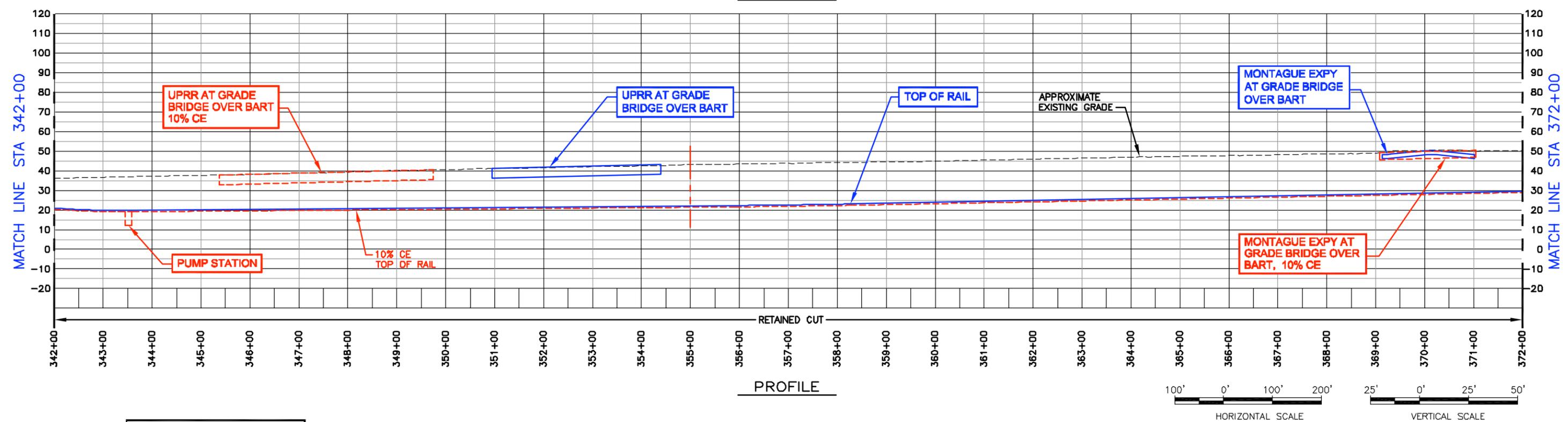
BART EXTENSION PROJECT
 NORTH OF MONTAGUE / CAPITOL STATION
 RETAINED CUT LONG OPTION: SHEET 1 OF 4
 PLAN AND PROFILE
 STA 72+00 TO STA 102+00

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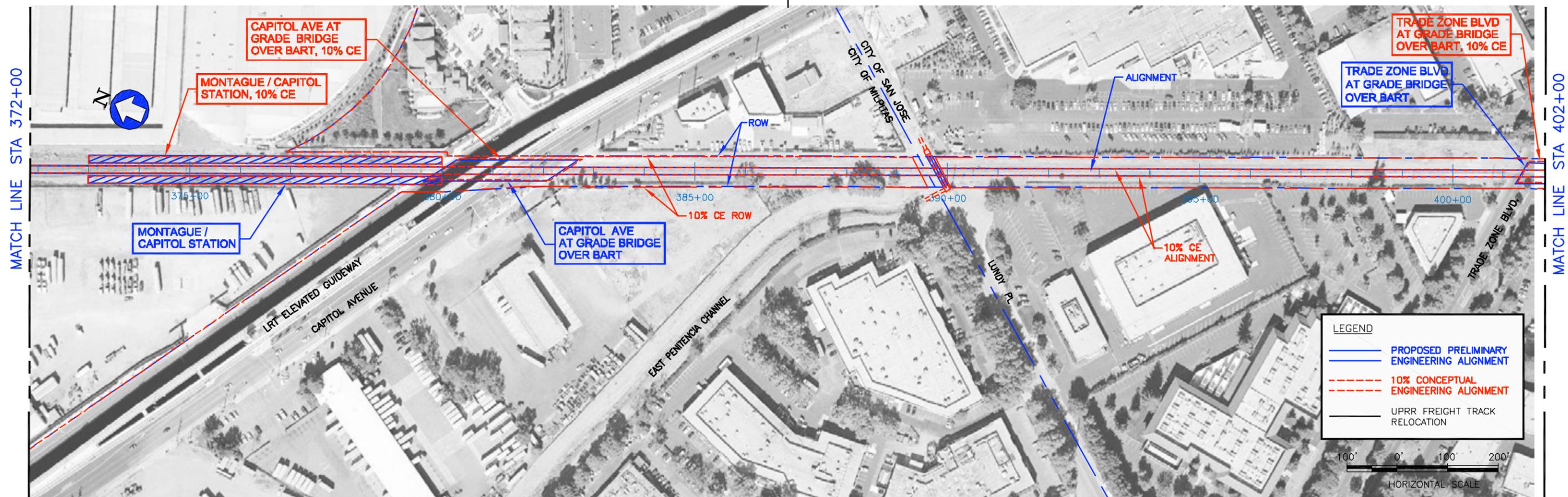


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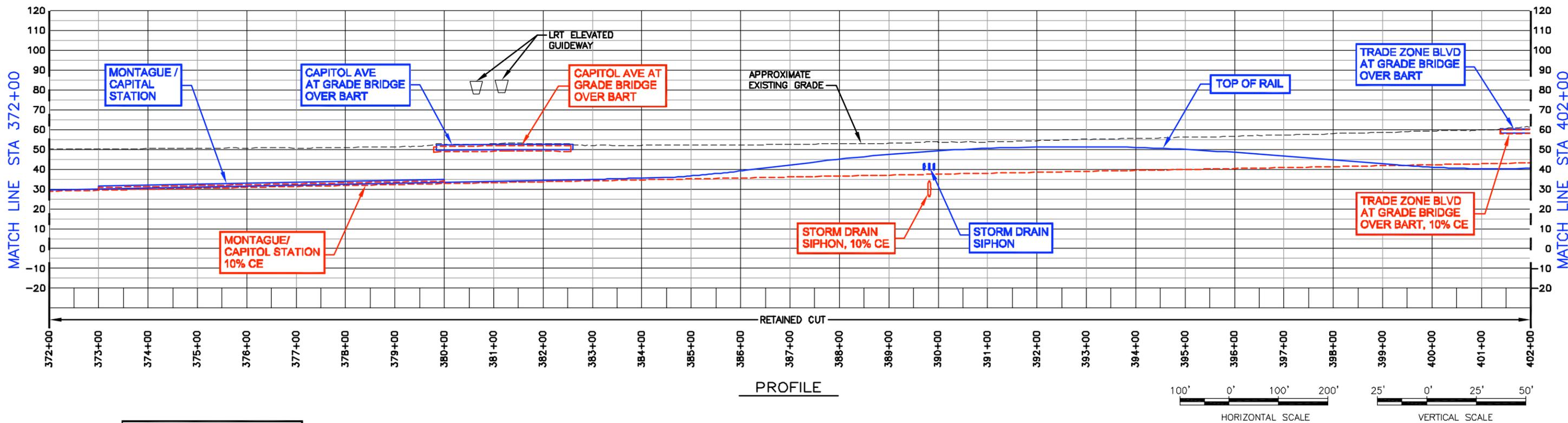
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Figure B-20

BART EXTENSION PROJECT
 NORTH OF MONTAGUE / CAPITOL STATION
 RETAINED CUT LONG OPTION: SHEET 2 OF 4
 PLAN AND PROFILE
 STA 72+00 TO STA 102+00



PLAN



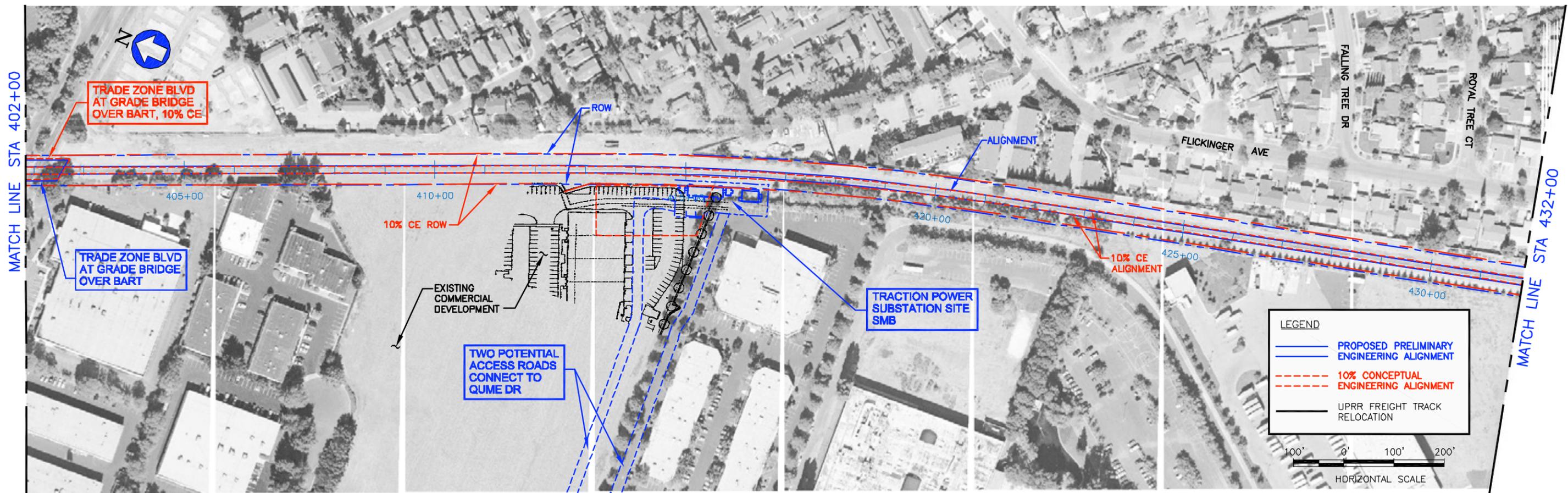
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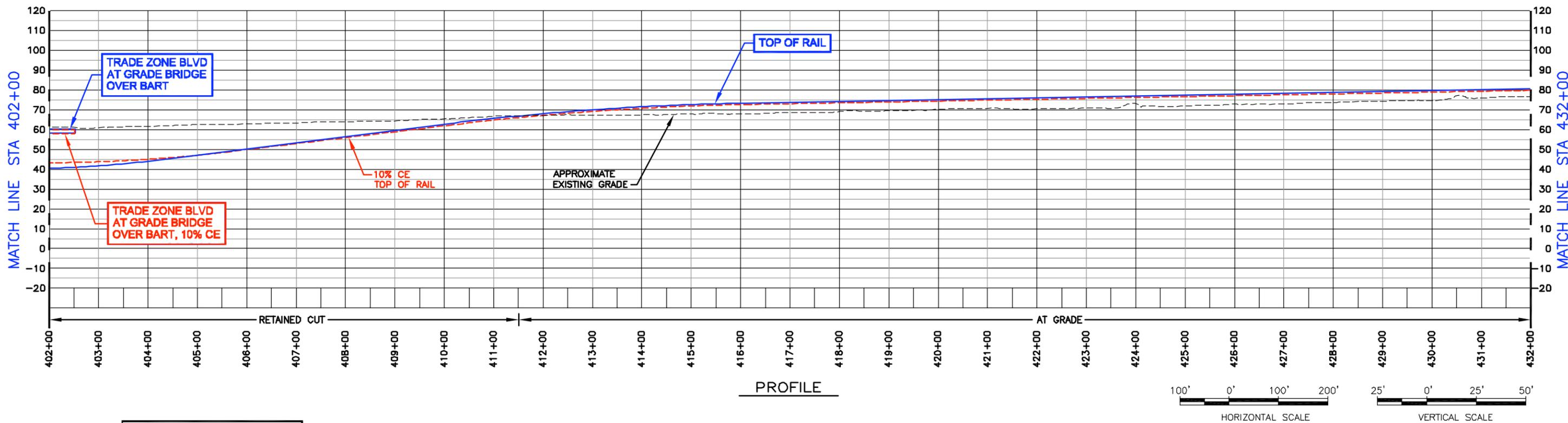
BART EXTENSION PROJECT
 NORTH OF MONTAGUE / CAPITOL STATION
 RETAINED CUT LONG OPTION: SHEET 3 OF 4
 PLAN AND PROFILE
 STA 72+00 TO STA 102+00

Figure B-21

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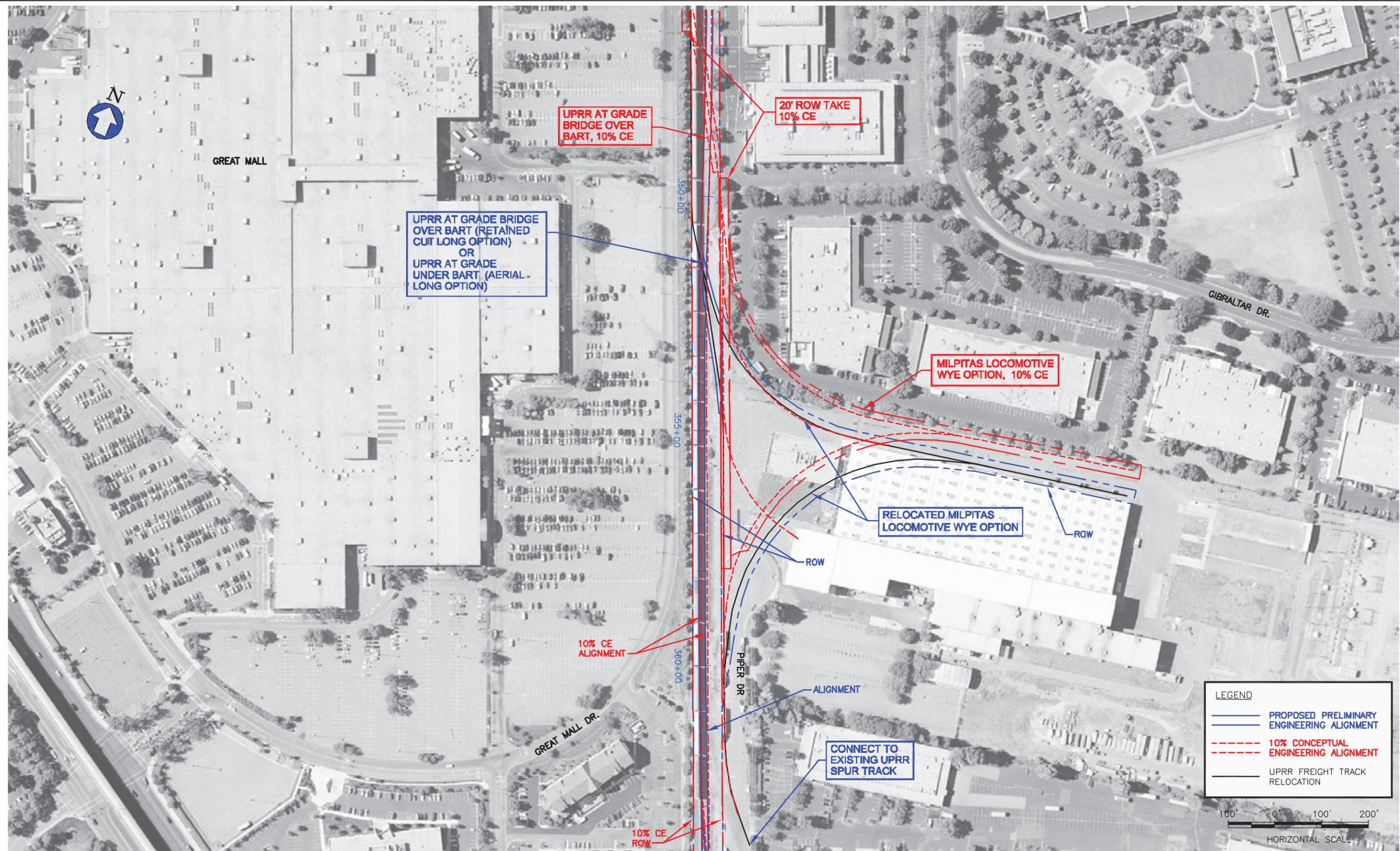
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DRAWING IS SCHEMATIC AND FOR ALIGNMENT COMPARISON PURPOSES ONLY.

BART EXTENSION PROJECT
 NORTH OF MONTAGUE / CAPITOL STATION
 RETAINED CUT LONG OPTION: SHEET 4 OF 4
 PLAN AND PROFILE
 STA 72+00 TO STA 102+00

Figure B-22

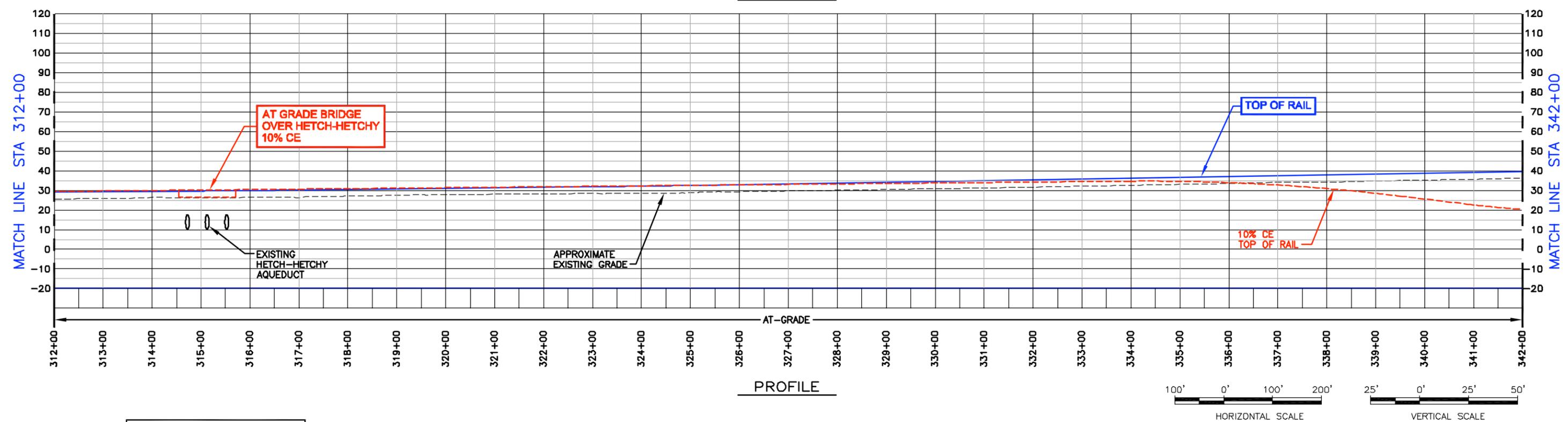
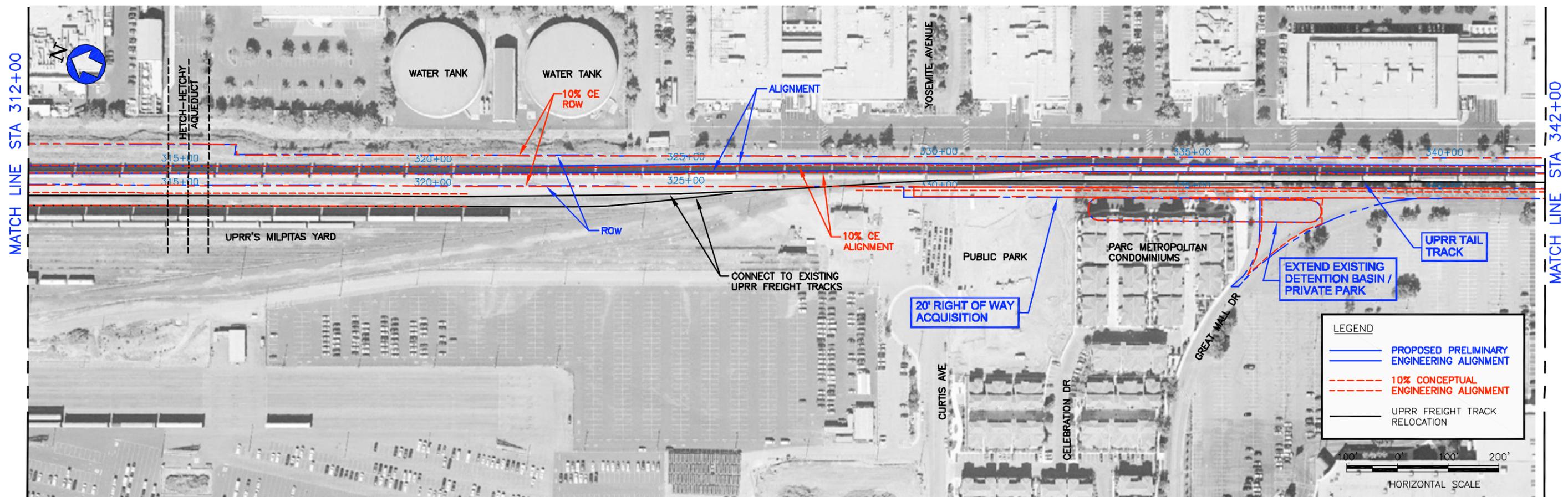
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Figure B-23

BART EXTENSION PROJECT
 RELOCATED
 MILPITAS WYE OPTION: SHEET 1 OF 1
 PLAN

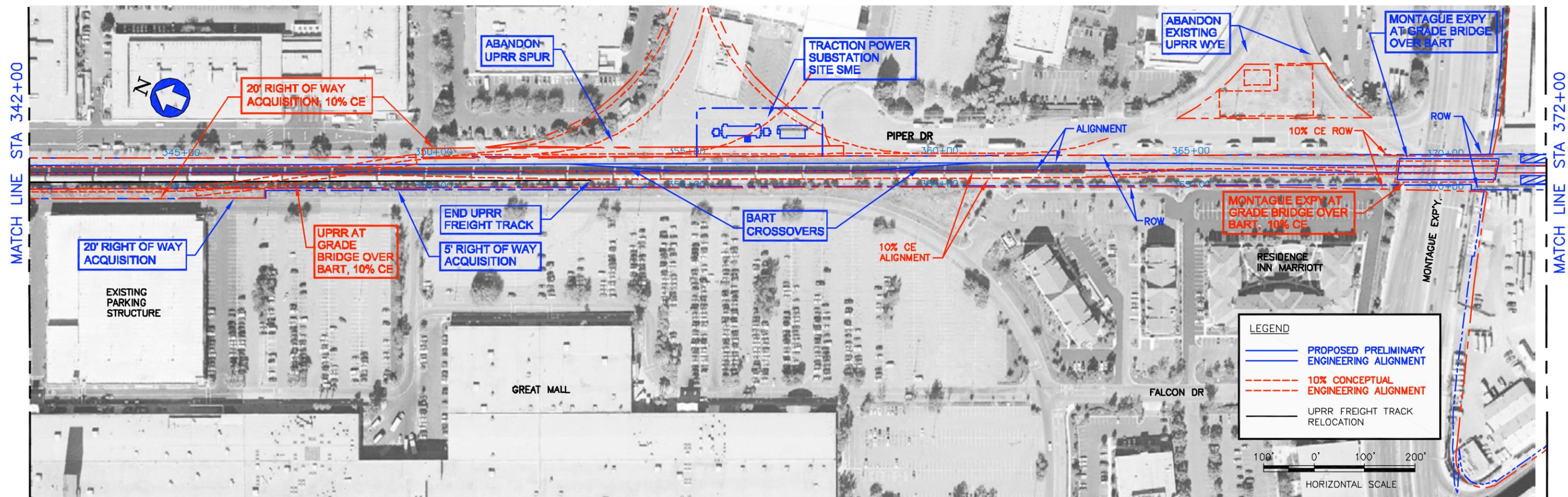


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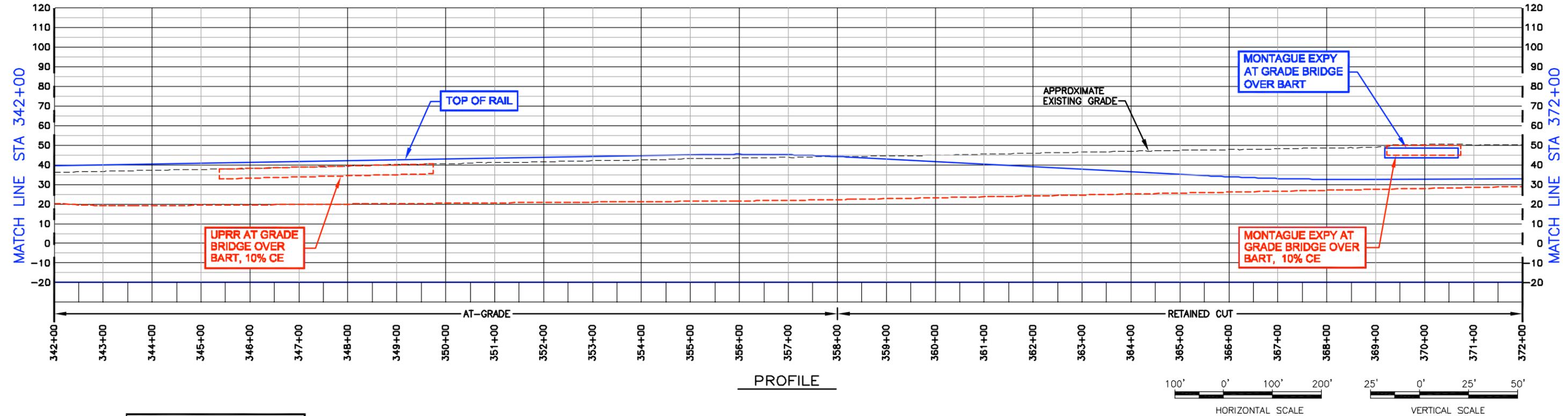
BART EXTENSION PROJECT
 NORTH OF MONTAGUE/CAPITOL STATION
 RETAINED CUT SHORT OPTION: SHEET 1 OF 4
 PLAN AND PROFILE
 STA 312+00 TO STA 342+00

Figure B-24

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PLAN



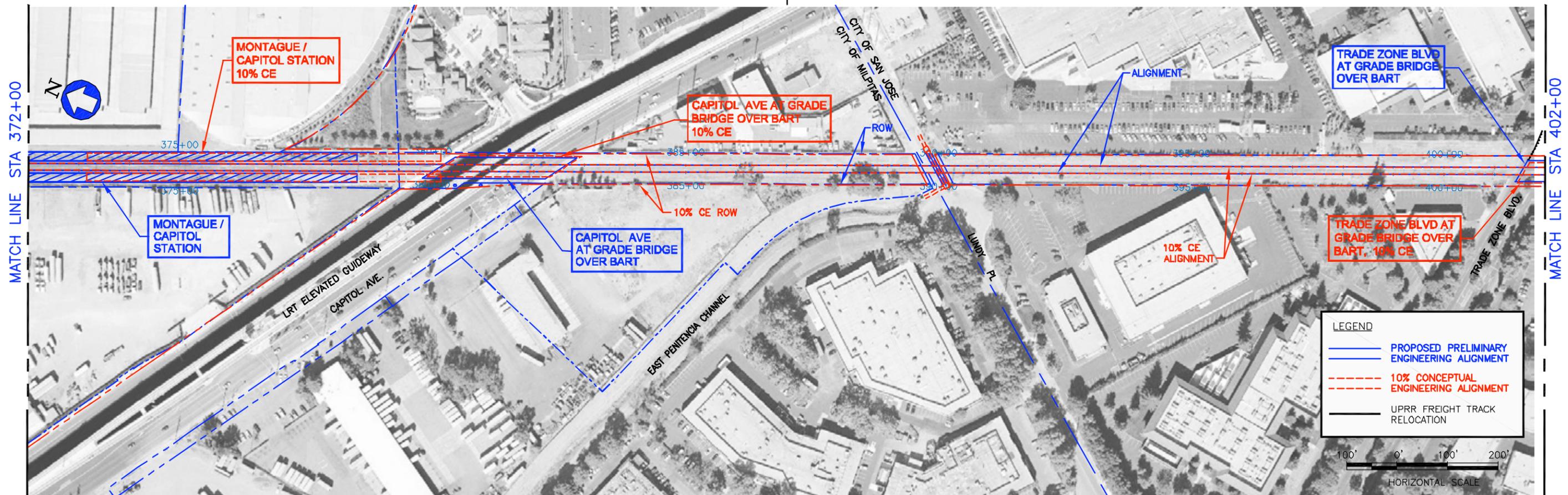
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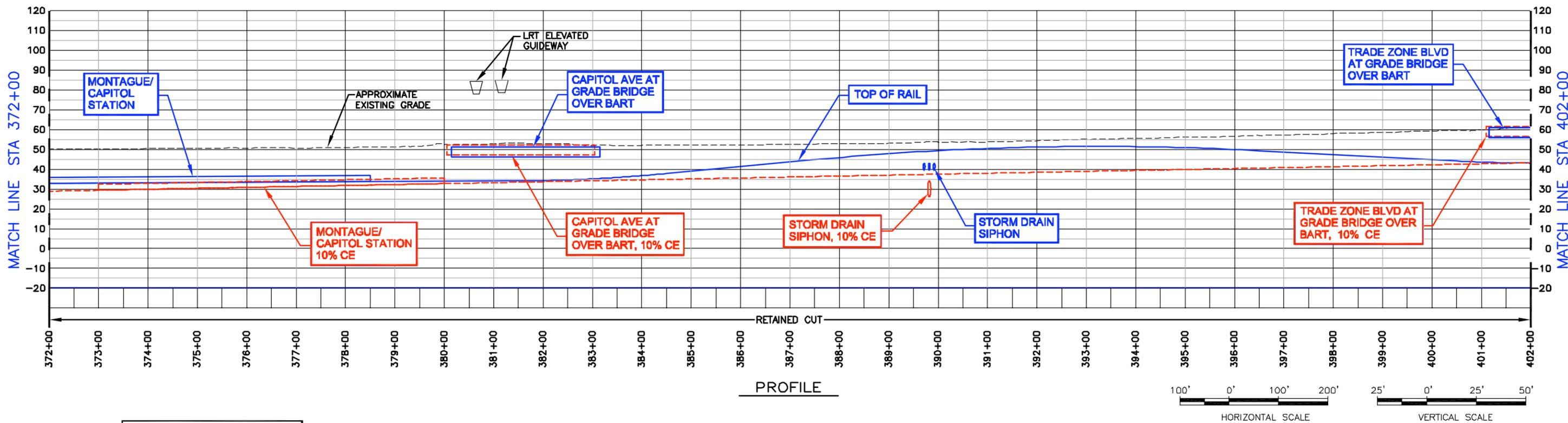
Figure B-25

BART EXTENSION PROJECT
 NORTH OF MONTAGUE/CAPITOL STATION
 RETAINED CUT SHORT OPTION: SHEET 2 OF 4
 PLAN AND PROFILE
 STA 342+00 TO STA 372+00

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PLAN



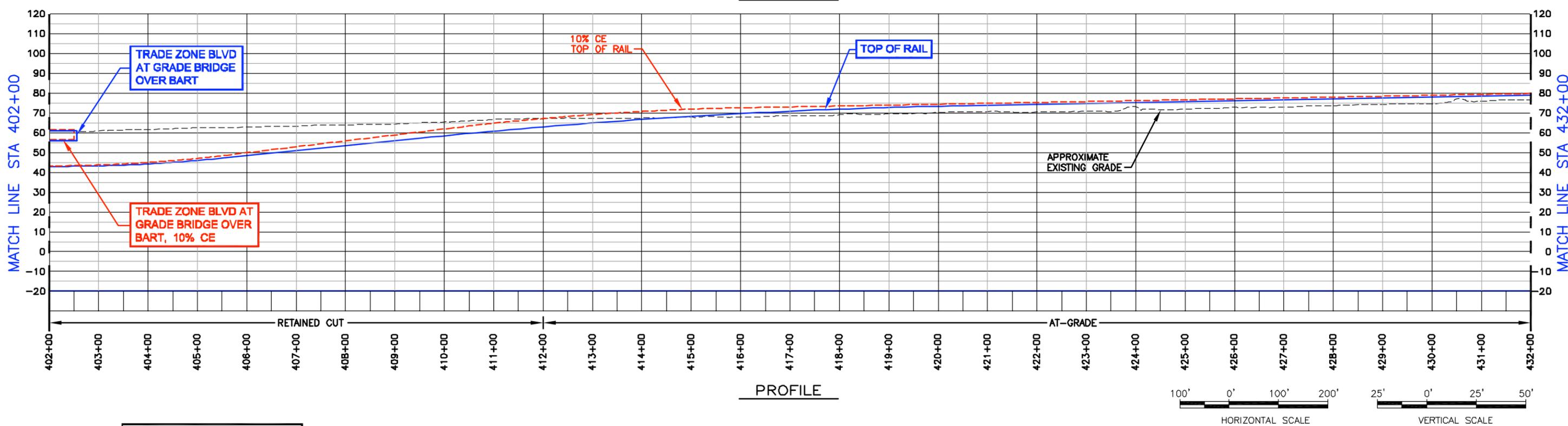
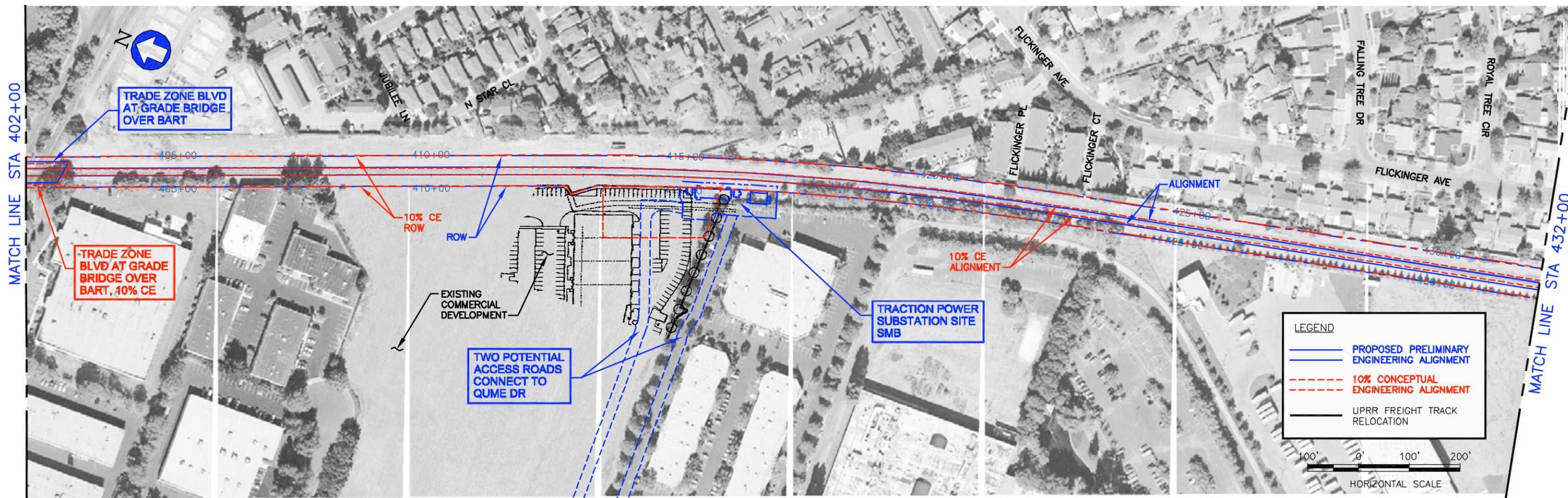
PROFILE

DRAWING IS SCHEMATIC AND FOR ALIGNMENT COMPARISON PURPOSES ONLY.

BART EXTENSION PROJECT
 NORTH OF MONTAGUE/CAPITOL STATION
 RETAINED CUT SHORT OPTION: SHEET 3 OF 4
 PLAN AND PROFILE
 STA 372+00 TO STA 402+00

Figure B-26

Schröder, A Aug 04, 2006 - 11:38am W:\S000\SER Figures C001 and PDF - July 24, 2006\FIG_B-25 to B-28.dwg

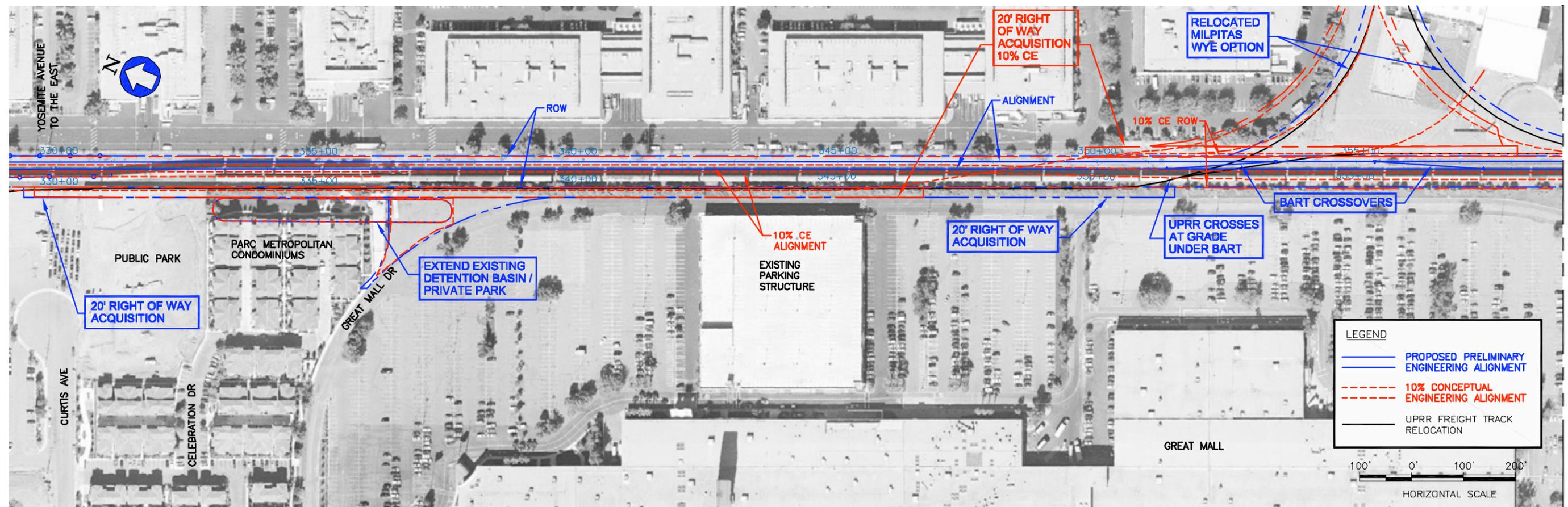


DRAWING IS SCHEMATIC AND FOR ALIGNMENT COMPARISON PURPOSES ONLY.

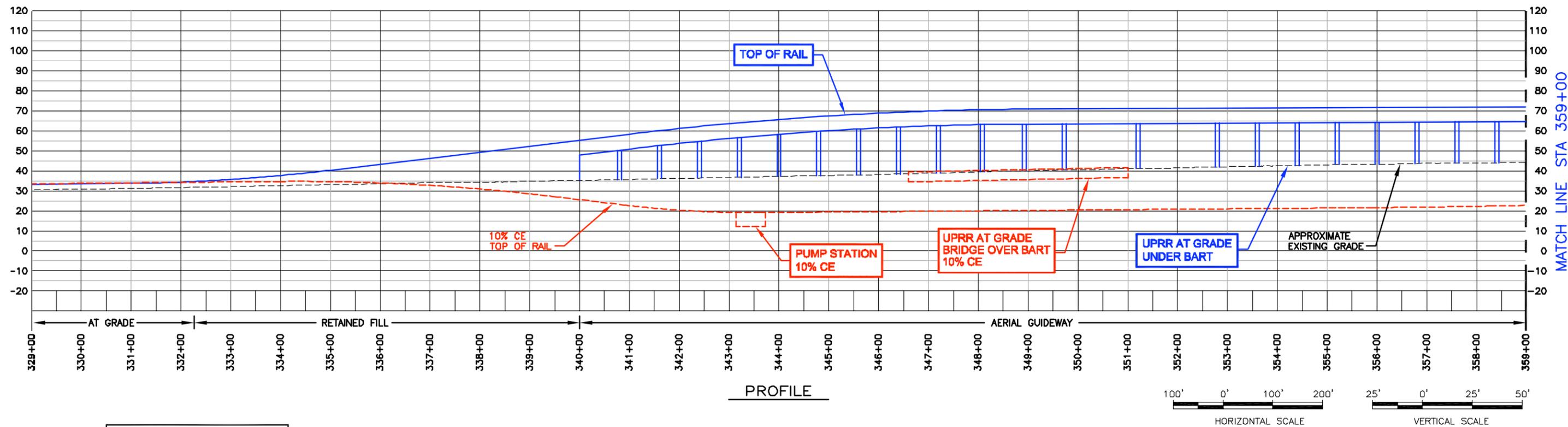
BART EXTENSION PROJECT
 NORTH OF MONTAGUE/CAPITOL STATION
 RETAINED CUT SHORT OPTION: SHEET 4 OF 4
 PLAN AND PROFILE
 STA 402+00 TO STA 432+00

Figure B-27

Schröder, A Aug 04, 2006 - 11:38am W:\SDD\SER Figures C00 and PDF - July 24, 2006\NC_B-25 to B-28.dwg



PLAN



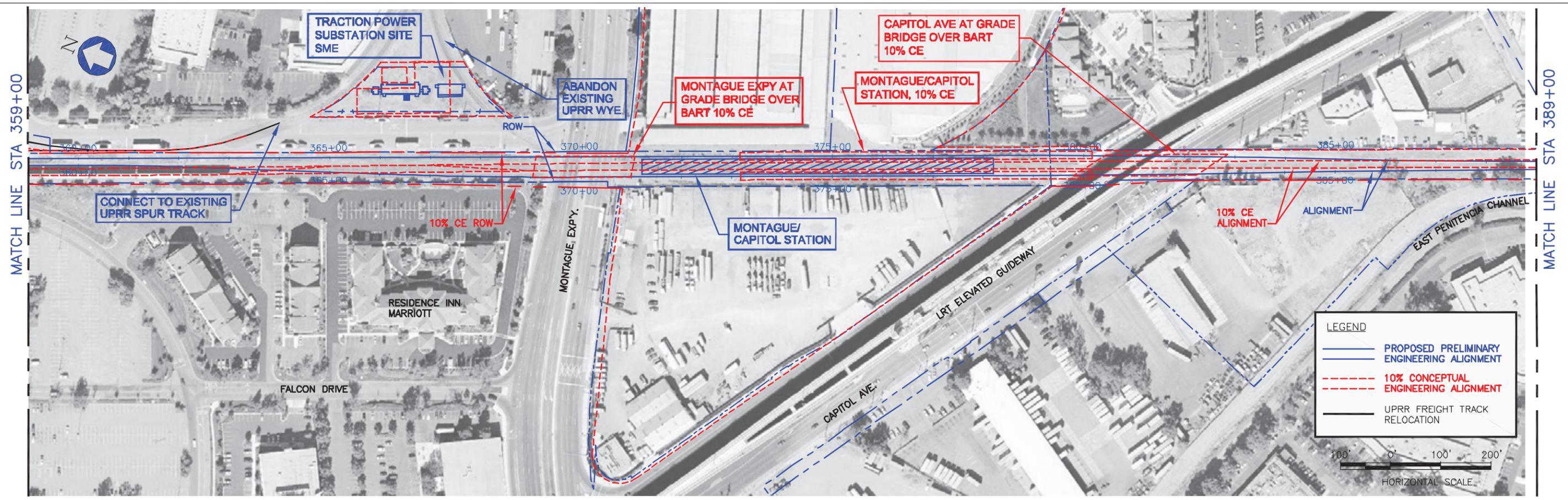
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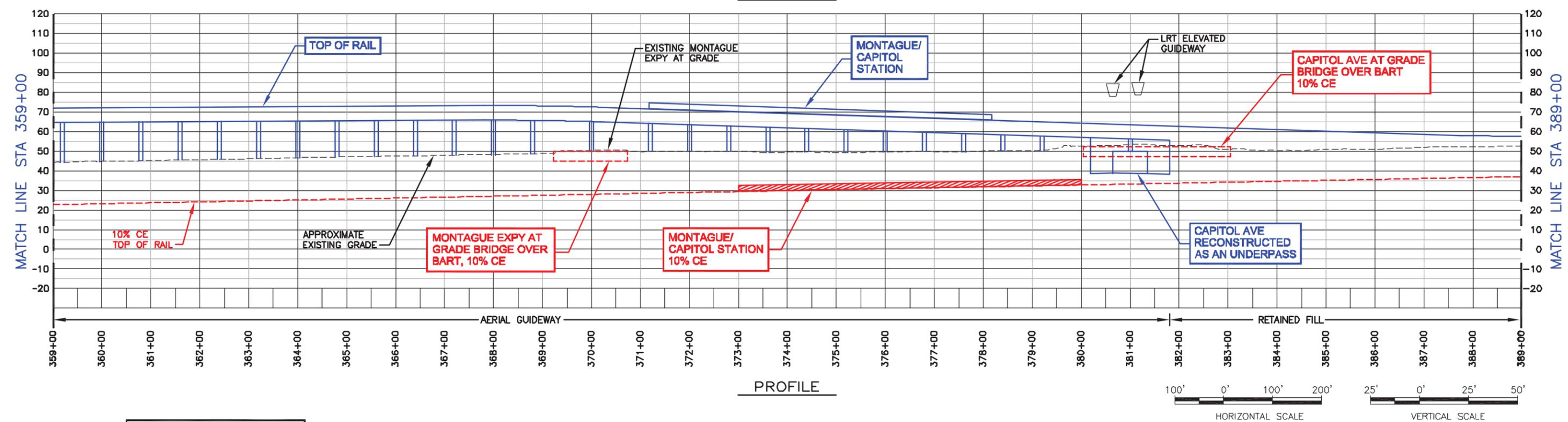
Figure B-28

BART EXTENSION PROJECT
 NORTH OF MONTAGUE/CAPITOL STATION
 AERIAL-LONG OPTION: SHEET 1 OF 3
 PLAN AND PROFILE
 STA 329+00 TO STA 359+00

Schröder, A Aug 04, 2006 - 11:38am W:\GIS\BDD\SER Figures CADD and PDF - July 24, 2006\FIG_B-28 to B-31.dwg



PLAN



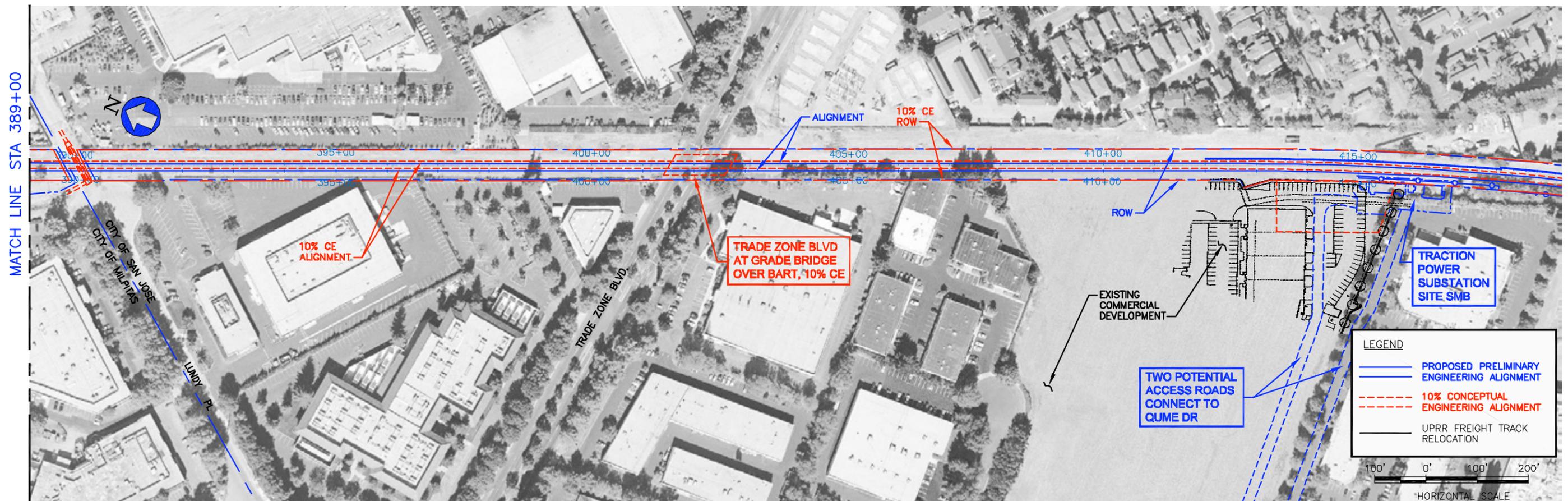
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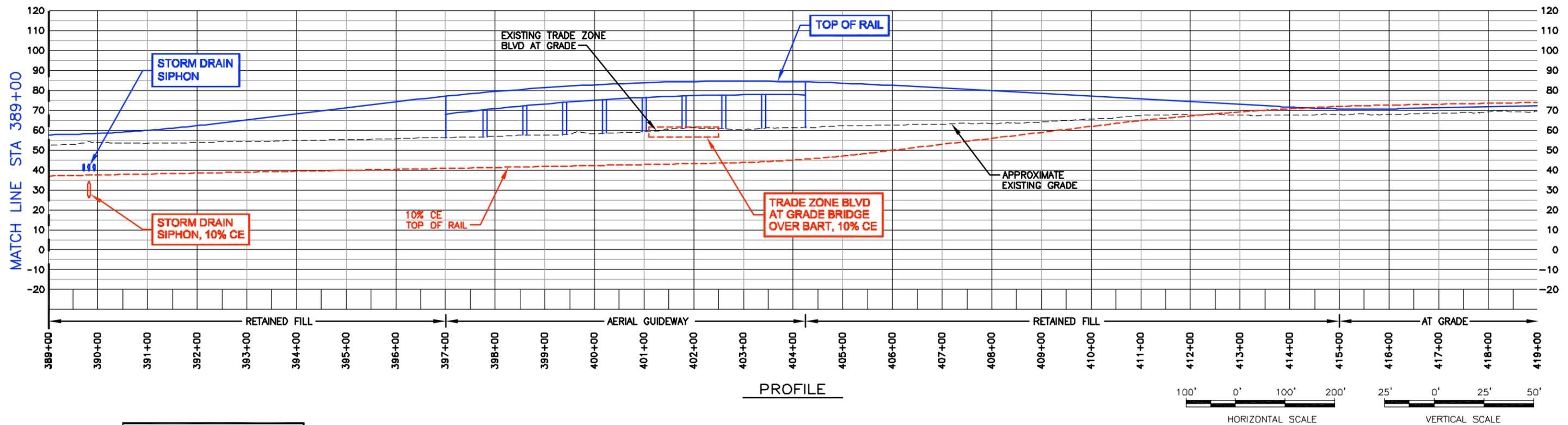
BART EXTENSION PROJECT
 NORTH OF MONTAGUE/CAPITOL STATION
 AERIAL-LONG OPTION: SHEET 2 OF 3
 PLAN AND PROFILE
 STA 359+00 TO STA 389+00

Figure B-29

Schröder, A Aug 04, 2006 - 11:38am W:\S000\SER Figures C00.dwg PDF - July 24, 2006\NC_B-29 to B-31.dwg



PLAN



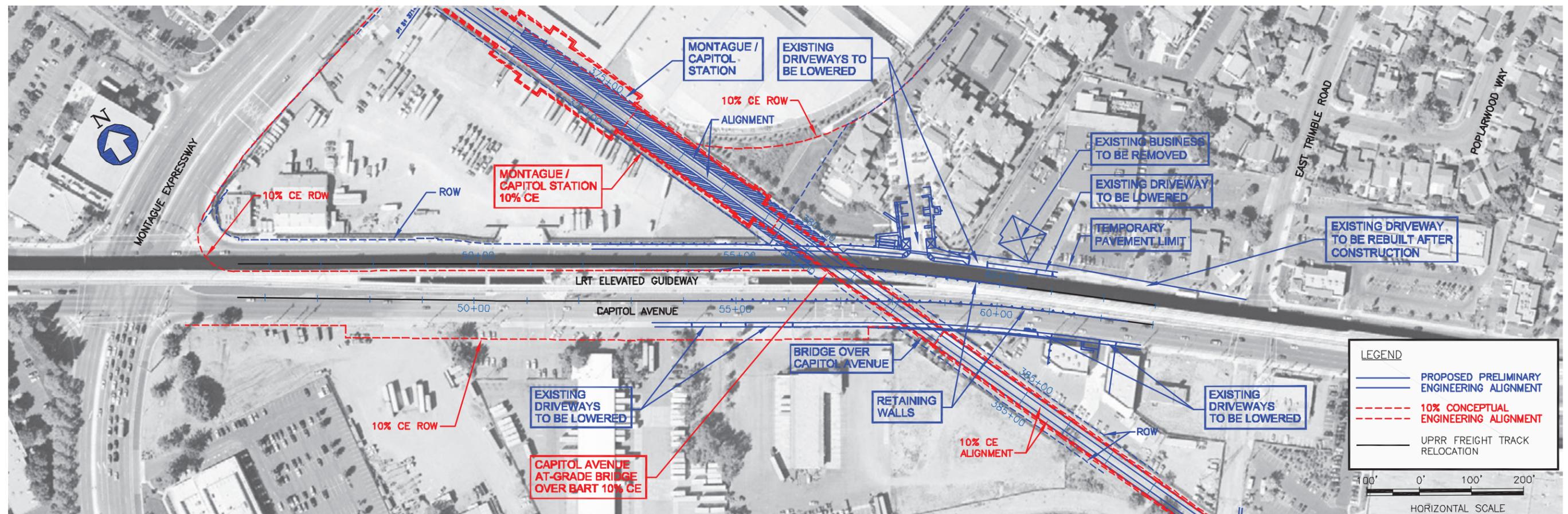
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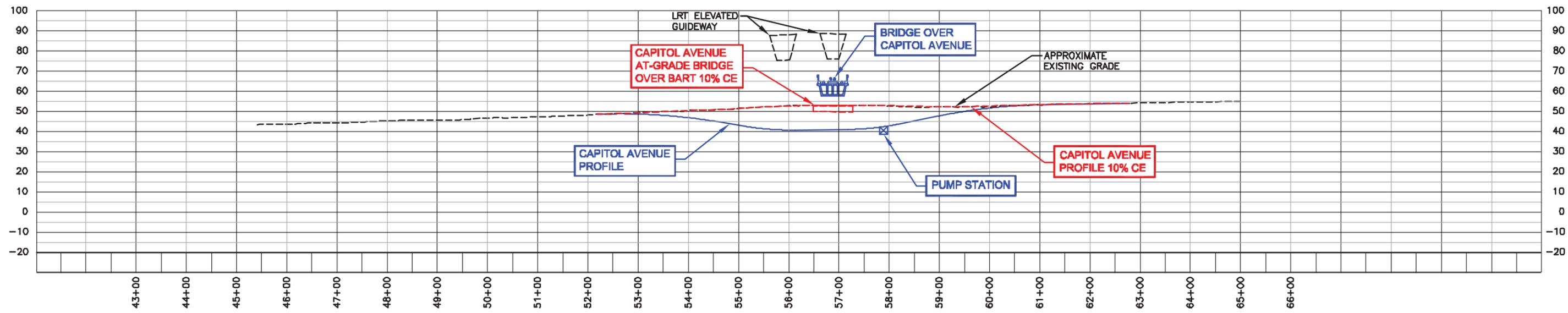
Figure B-30

BART EXTENSION PROJECT
 NORTH OF MONTAGUE/CAPITOL STATION
 AERIAL-LONG OPTION: SHEET 3 OF 3
 PLAN AND PROFILE
 STA 389+00 TO STA 419+00

Schröder, A Aug 04, 2006 - 11:40am W:\CS000\SER Figures C000 and PDF - July 24, 2006\FIG_B-29 to B-31.dwg



PLAN

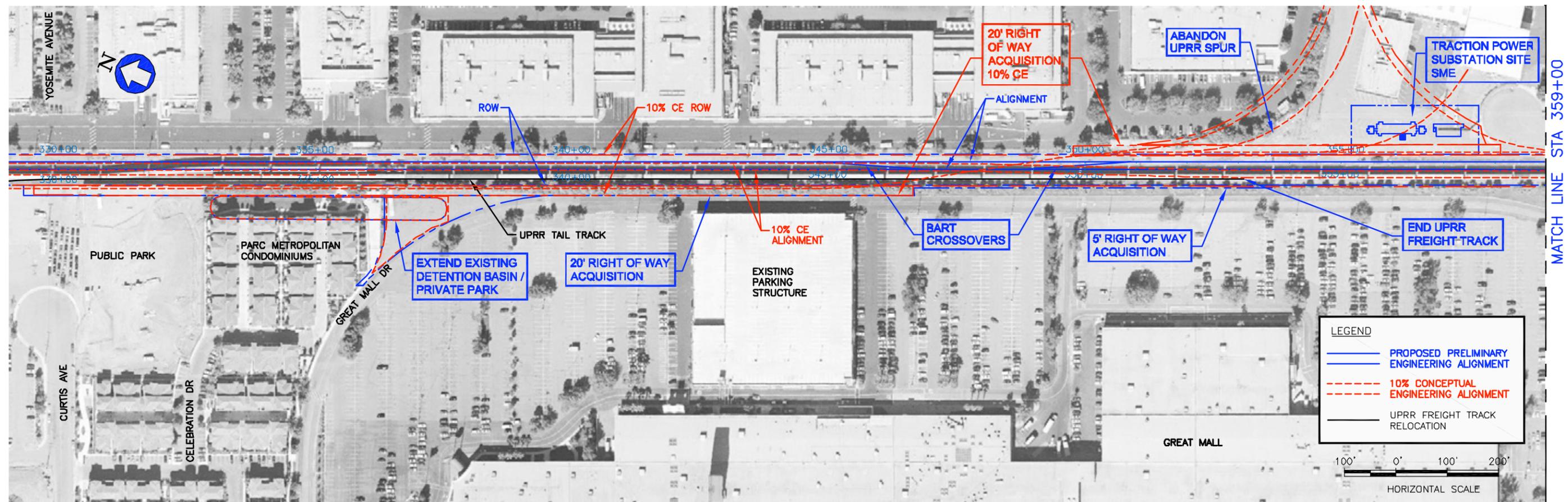


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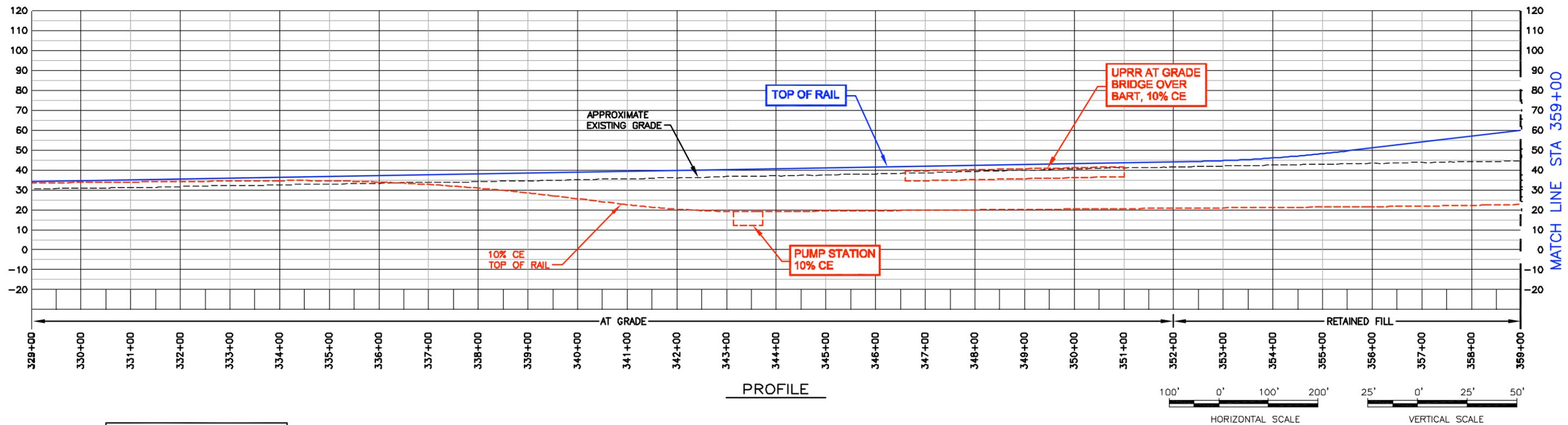
DRAWING IS SCHEMATIC AND FOR ALIGNMENT COMPARISON PURPOSES ONLY.

Figure B-31

BART EXTENSION PROJECT
 CAPITOL AVENUE – BART AERIAL OPTIONS
 LOWERED ROADWAY – SHEET 1 OF 1
 PLAN AND PROFILE
 STA 46+00 TO STA 63+00



PLAN



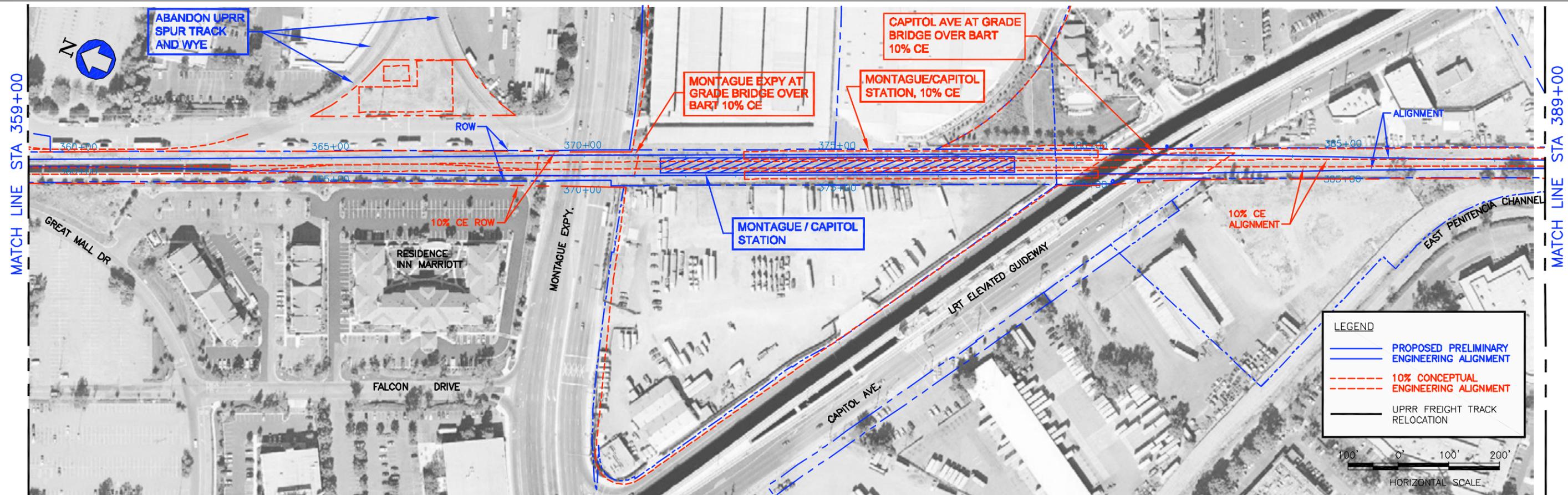
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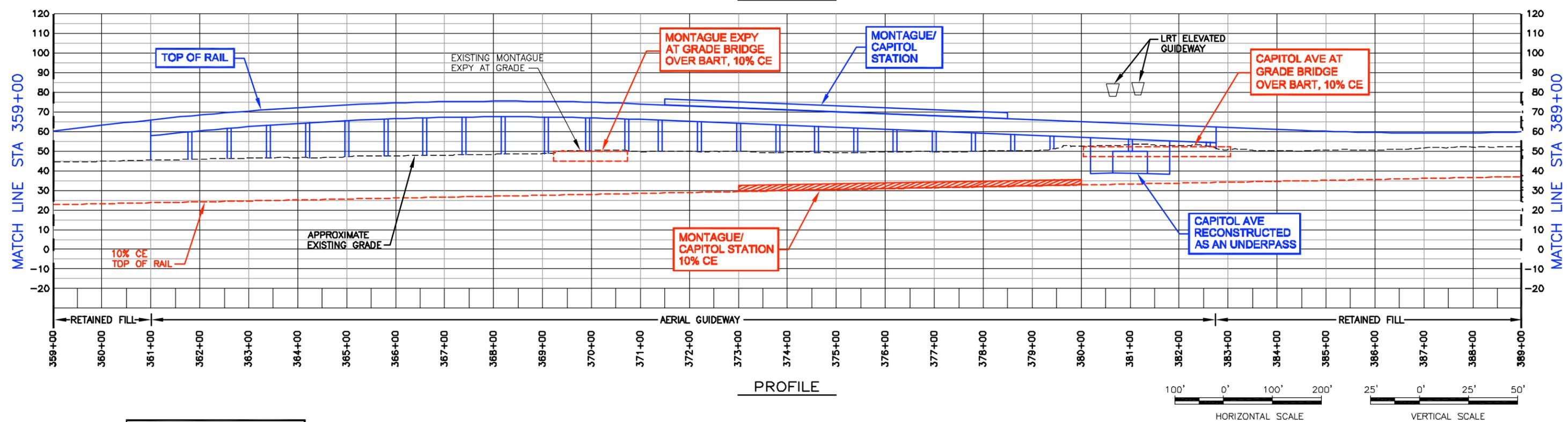
BART EXTENSION PROJECT
 MONTAGUE/CAPITOL STATION
 AERIAL-SHORT OPTION: SHEET 1 OF 3
 PLAN AND PROFILE
 STA 329+00 TO STA 359+00

Figure B-32

Schröder, A Aug 04, 2006 - 11:41am W:\S000\SER Figures C00 and PDF - July 24, 2006\FIG_B-33 to B-35.dwg



PLAN



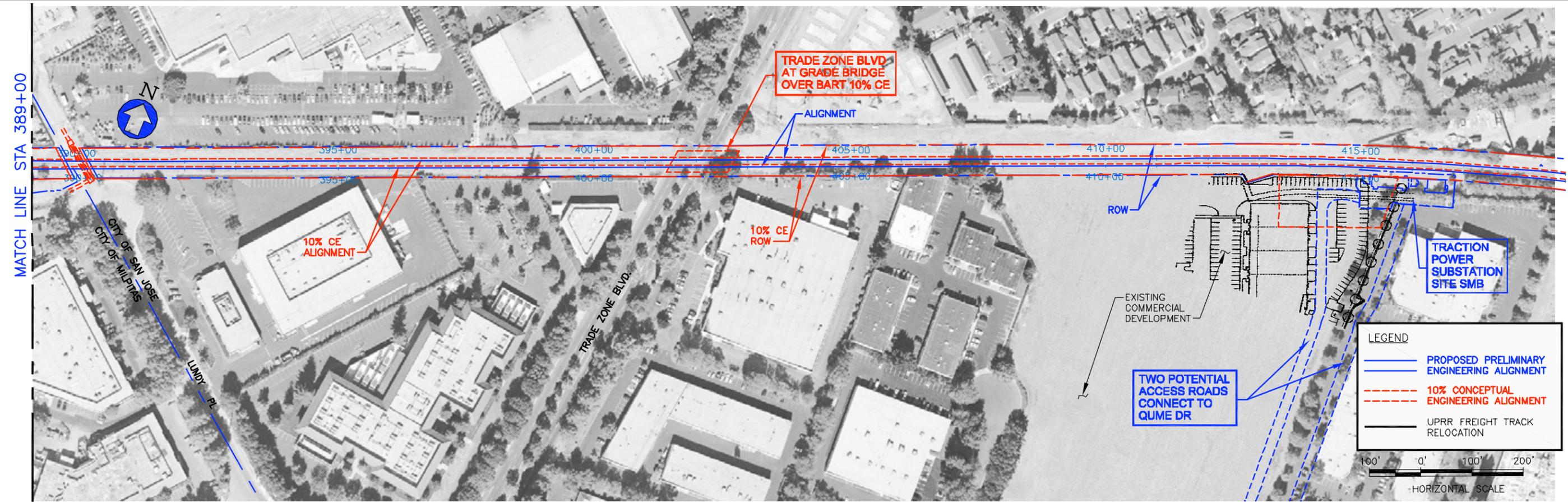
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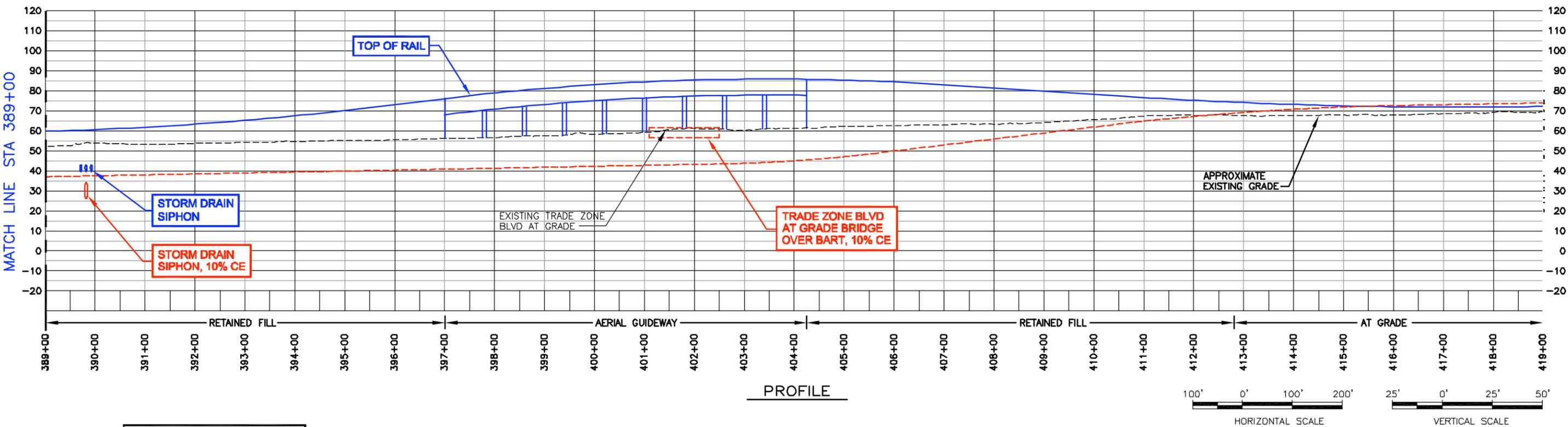
BART EXTENSION PROJECT
 MONTAGUE/CAPITOL STATION
 AERIAL-SHORT OPTION: SHEET 2 OF 3
 PLAN AND PROFILE
 STA 359+00 TO STA 389+00

Figure B-33

Schröder, A Aug 04, 2006 - 11:41am W:\S000\SER Figures C000.dwg PDF - July 24, 2006\FIG_B-33 to B-35.dwg



PLAN



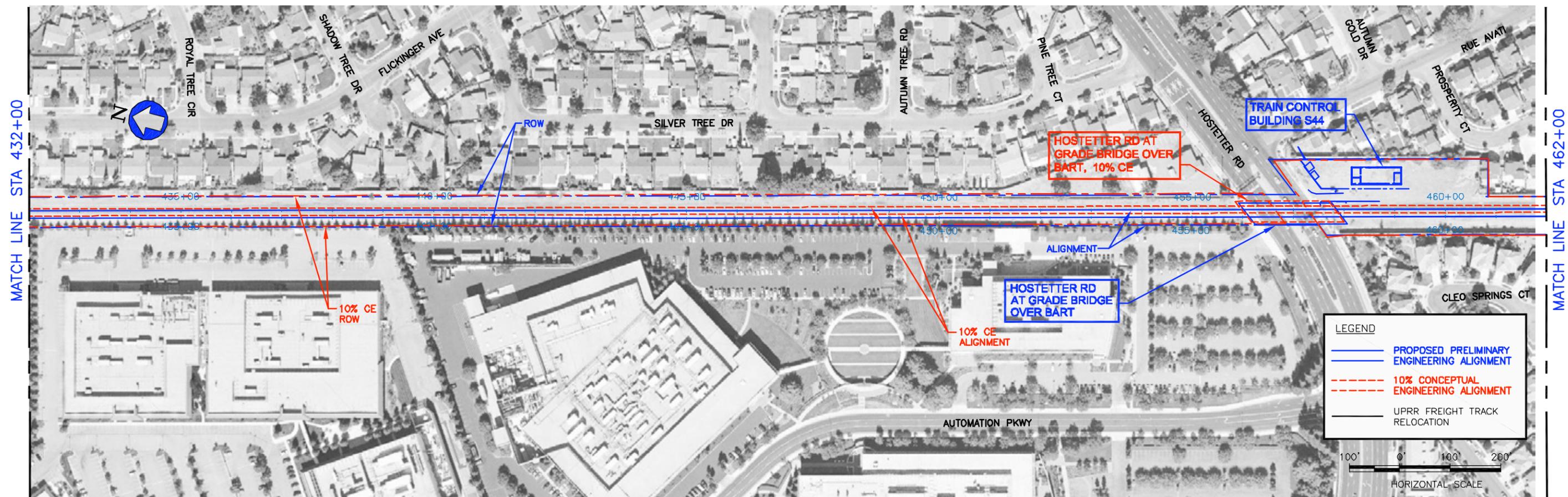
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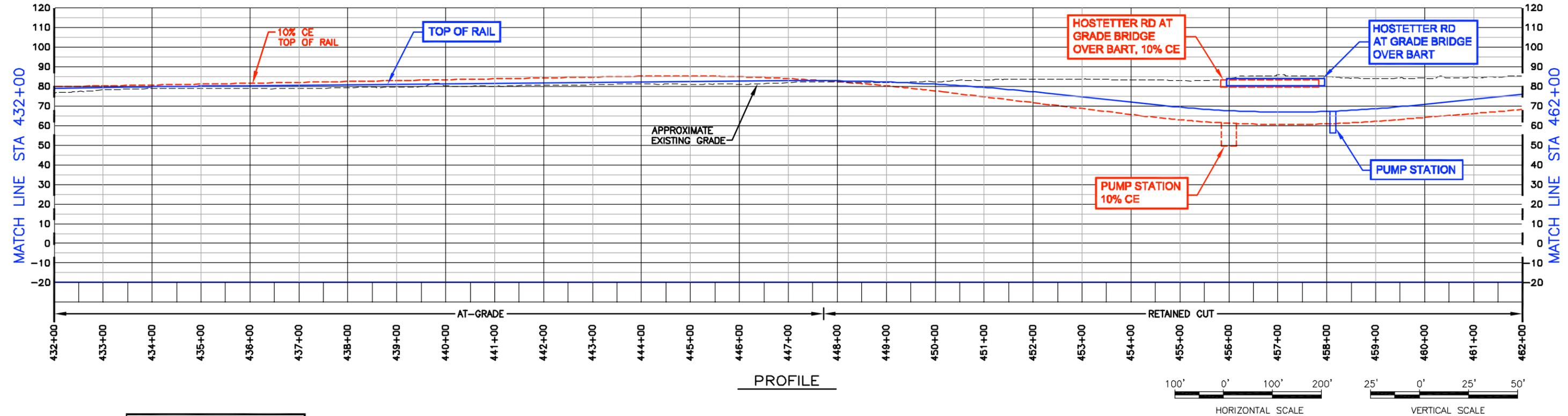
Figure B-34

BART EXTENSION PROJECT
 MONTAGUE/CAPITOL STATION
 AERIAL-SHORT OPTION: SHEET 3 OF 3
 PLAN AND PROFILE
 STA 389+00 TO STA 419+00

Schröder, A Aug 04, 2006 - 11:41am W:\S000\SER Figures C001 and PDF - July 24, 2006\FIG_B-33 to B-35.dwg



PLAN



PROFILE

DRAWING IS SCHEMATIC AND FOR ALIGNMENT COMPARISON PURPOSES ONLY.

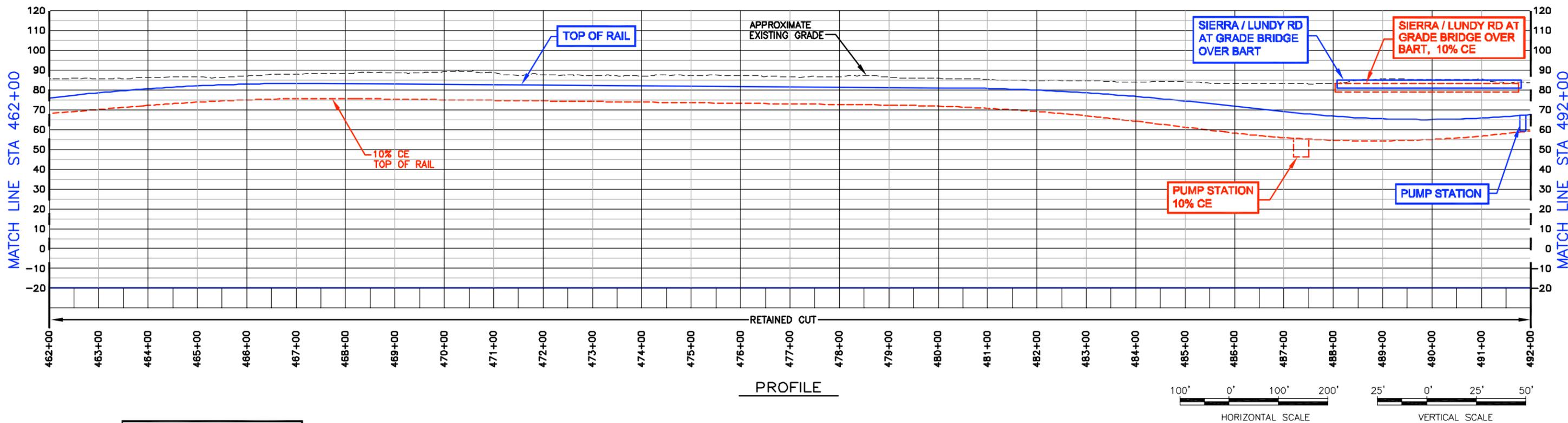
Figure B-35

BART EXTENSION PROJECT
 PROPOSED PE ALIGNMENTS
 PLAN AND PROFILE
 STA 432+00 TO STA 462+00

Schröder, A Aug 04, 2006 - 11:41am W:\SDD\SER Figures CDD and PDF - July 24, 2006\PC_B-36 to B-40.dwg



PLAN



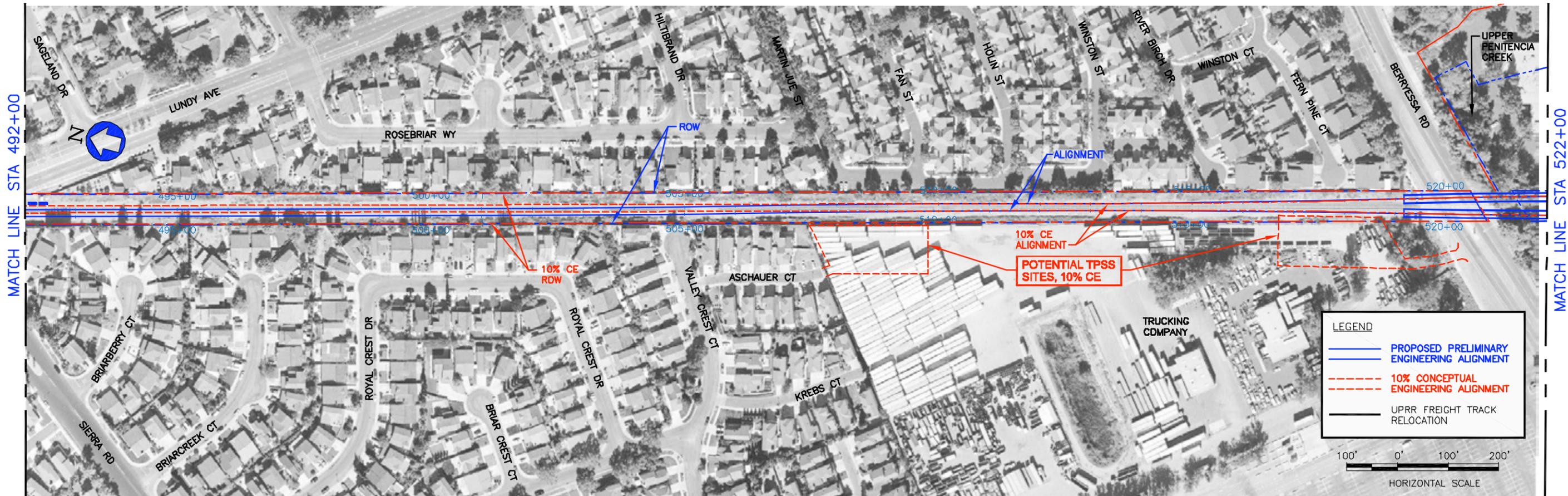
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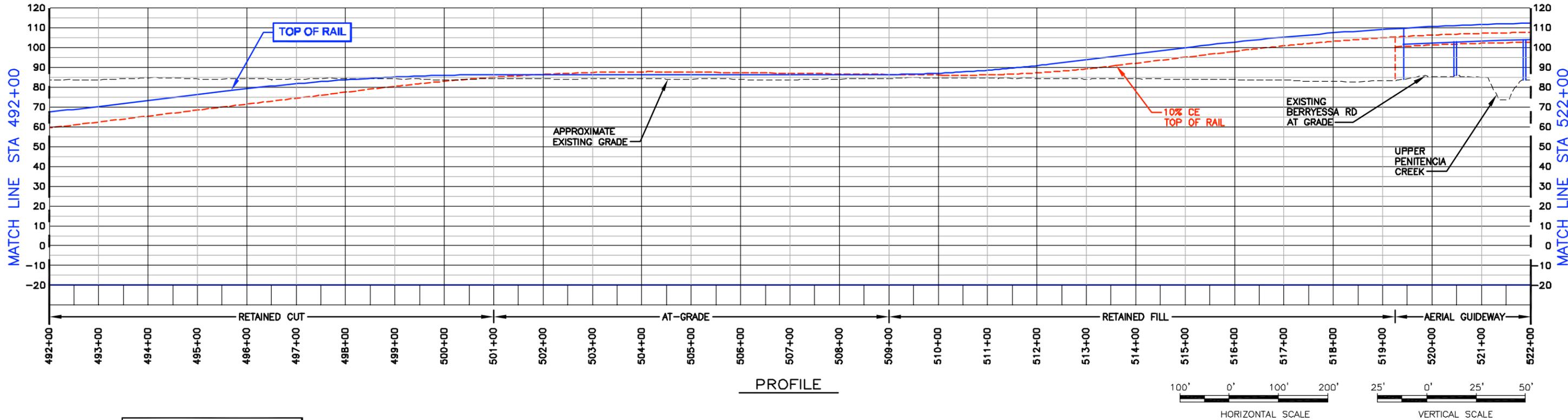
BART EXTENSION PROJECT
 PROPOSED PE ALIGNMENTS
 PLAN AND PROFILE
 STA 462+00 TO STA 492+00

Figure B-36

Schröder, A Aug 04, 2006 - 11:42am W:\GIS\BART\SER Figures CADD and PDF - July 24, 2006\FIG_B-36 to B-40.dwg



PLAN



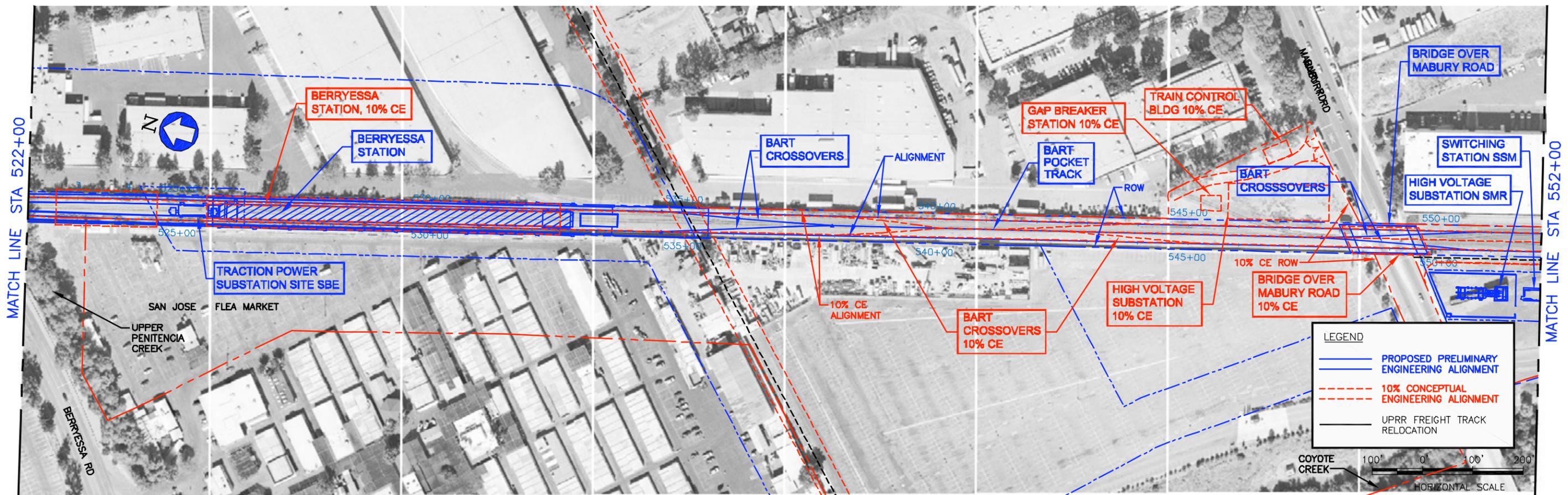
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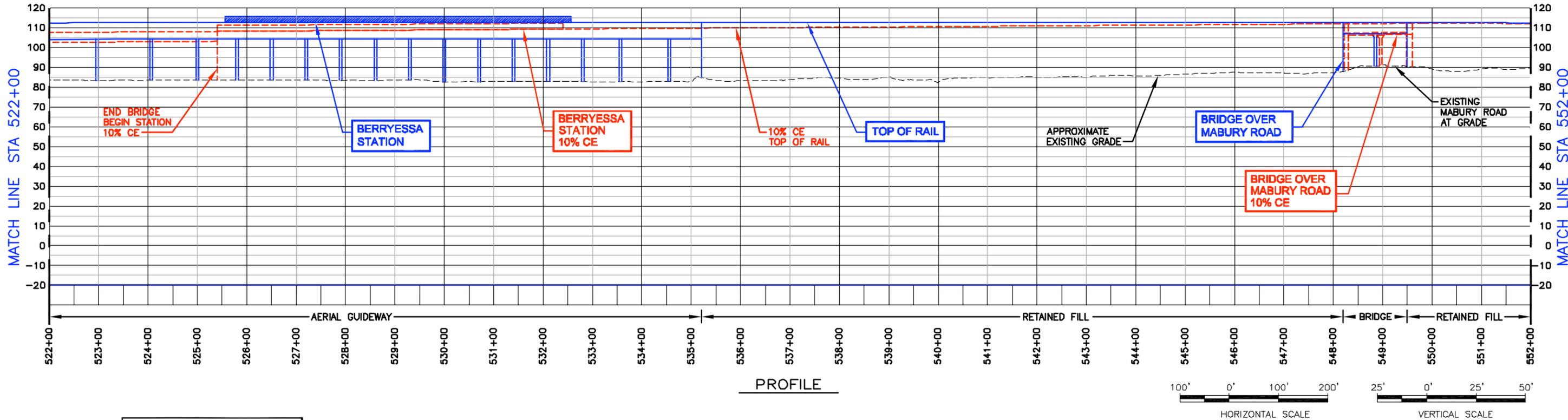
BART EXTENSION PROJECT
 PROPOSED PE ALIGNMENTS
 PLAN AND PROFILE
 STA 492+00 TO STA 522+00

Figure B-37

Schröder, A Aug 04, 2006 - 11:42am W:\S000\SER Figures C00 and PDF - July 24, 2006\FIG_B-36 to B-40.dwg



PLAN



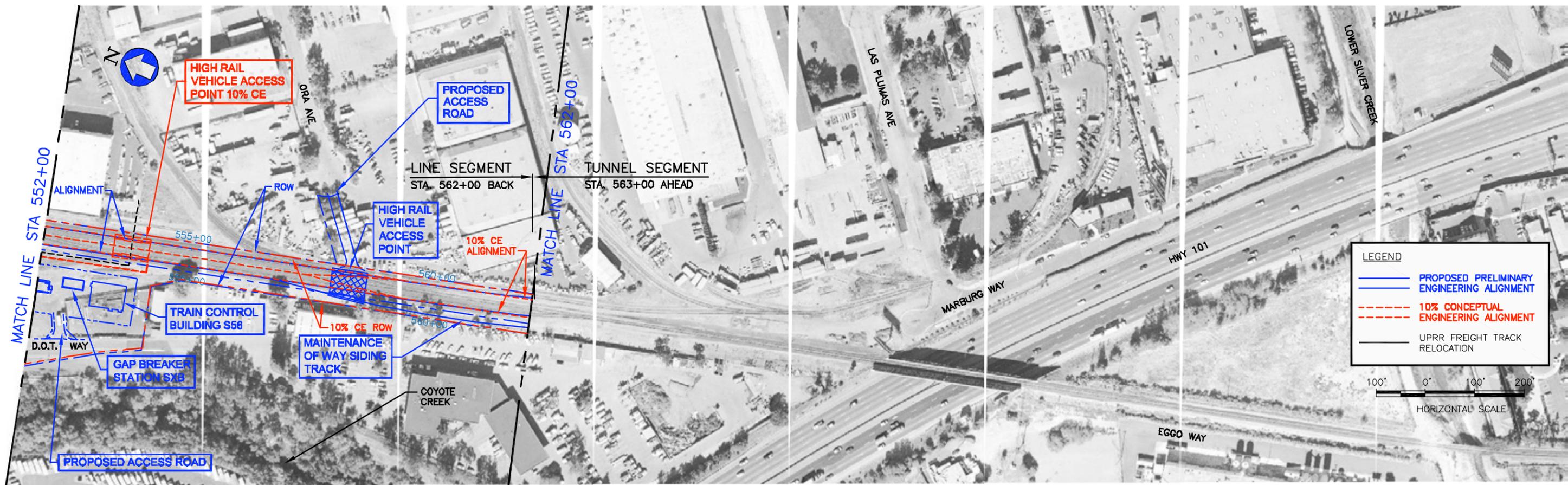
PROFILE

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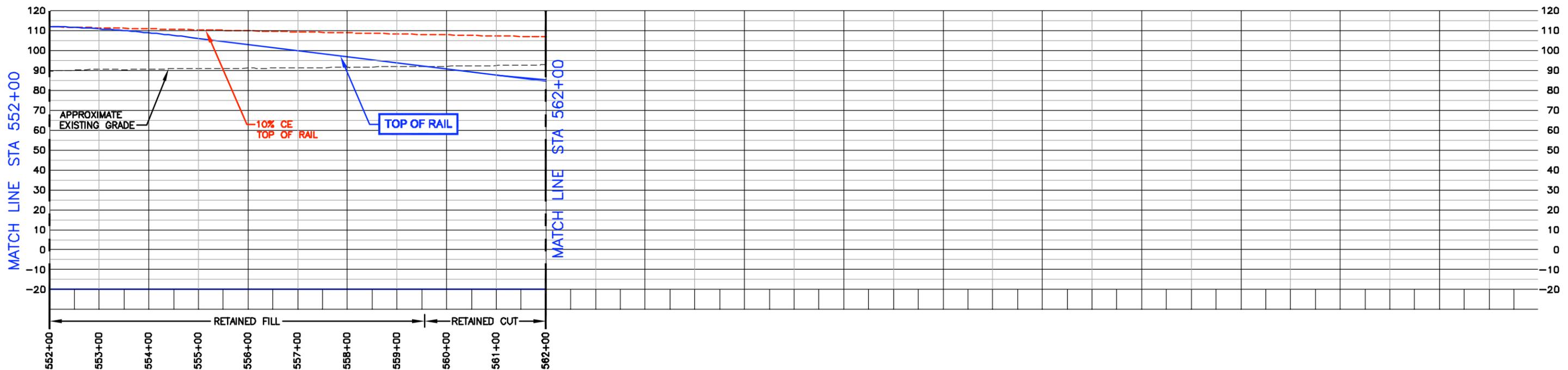
BART EXTENSION PROJECT
 PROPOSED PE ALIGNMENTS
 PLAN AND PROFILE
 STA 522+00 TO STA 552+00

Figure B-38

Schroeder, A Aug 04, 2006 - 11:42am W:\S000\SER Figures C000 and PDF - July 24, 2006\FIG_B-36 to B-40.dwg



PLAN



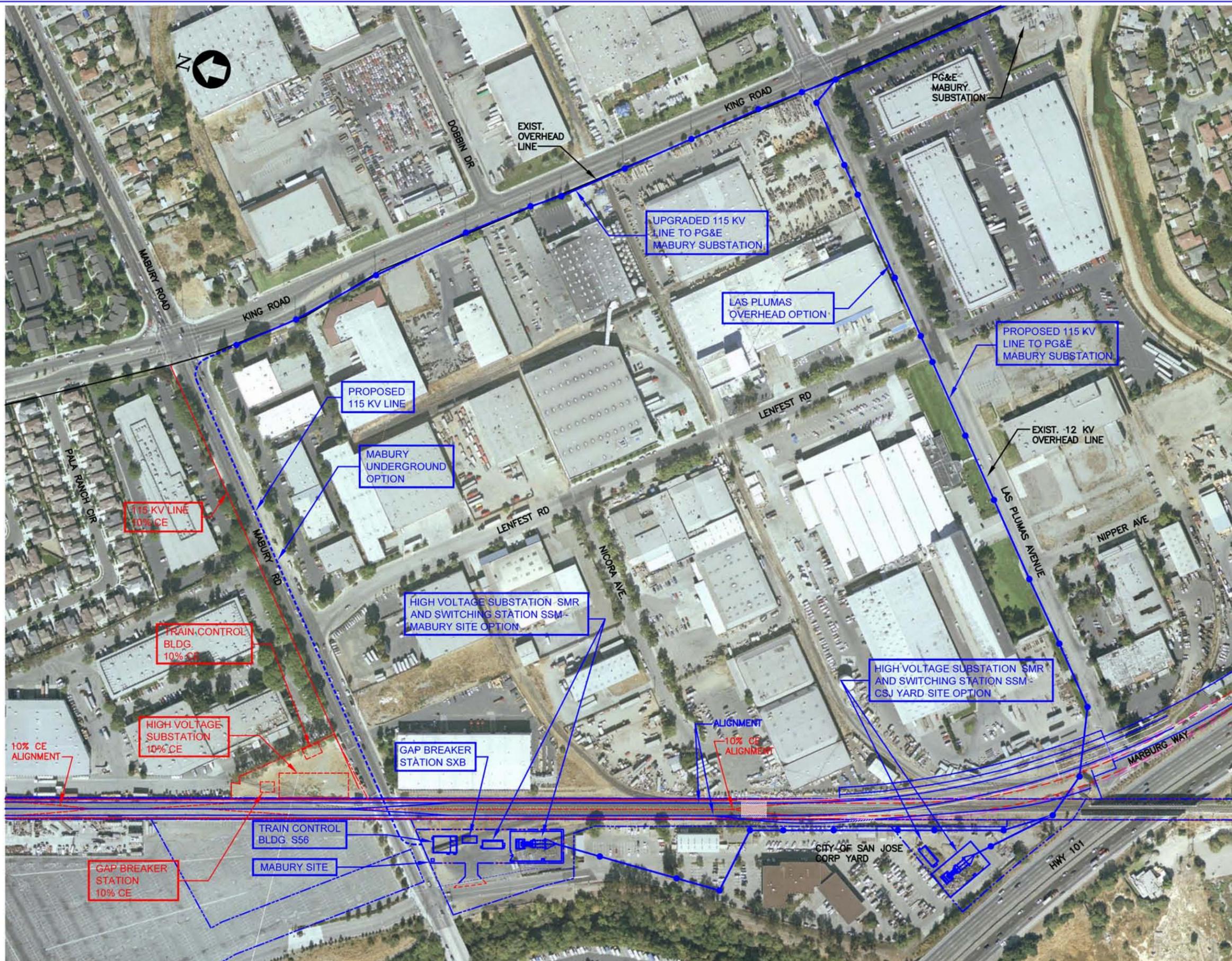
PROFILE

DRAWING IS SCHEMATIC AND FOR ALIGNMENT COMPARISON PURPOSES ONLY.



Figure B-39

BART EXTENSION PROJECT
 PROPOSED PE ALIGNMENTS
 PLAN AND PROFILE
 STA 552+00 TO STA 562+00



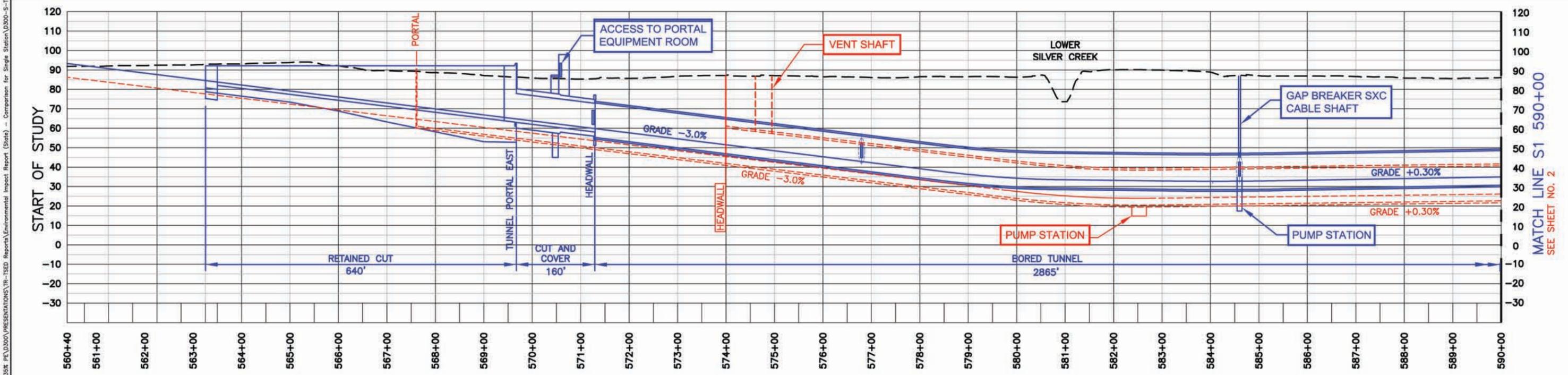
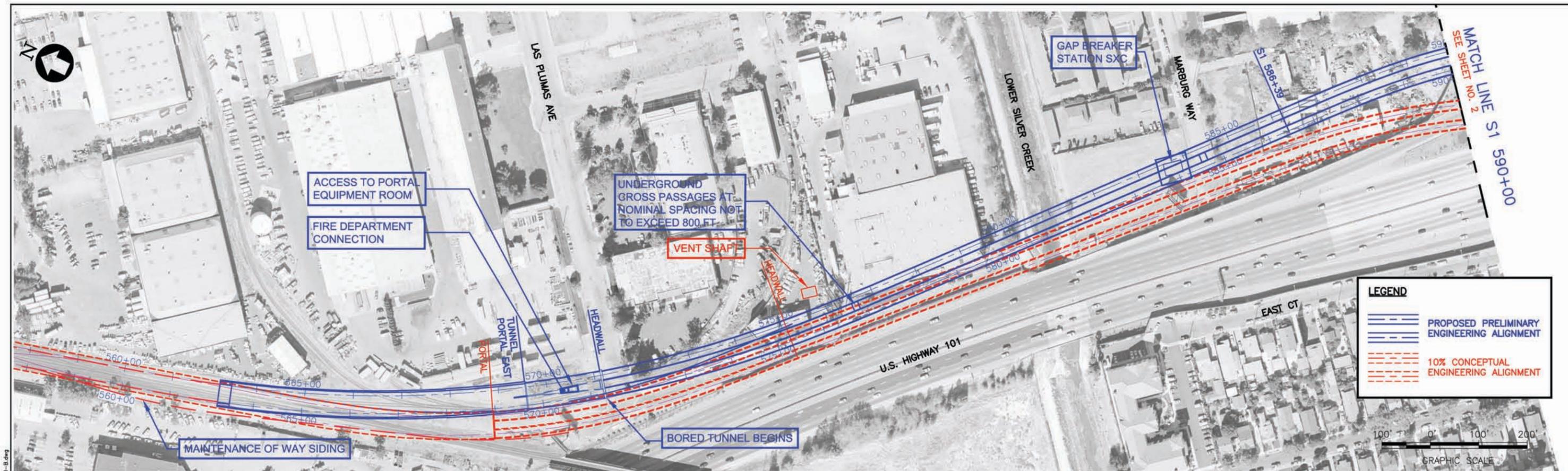
DRAWING IS SCHEMATIC AND FOR ALIGNMENT COMPARISON PURPOSES ONLY.

LEGEND	
	115 KV OVERHEAD LINE
	115 KV UNDERGROUND LINE
	115 KV OVERHEAD LINE (10% CE)
	PRELIMINARY ENGINEERING ALIGNMENT
	10% CONCEPTUAL ENGINEERING ALIGNMENT



BART EXTENSION PROJECT
 PROPOSED P.E. ALIGNMENT
 115 KV ELECTRIC LINE LOCATION OPTIONS
 MABURY HIGH VOLTAGE SUBSTATION:
 SHEET 1 of 1

Figure B-40



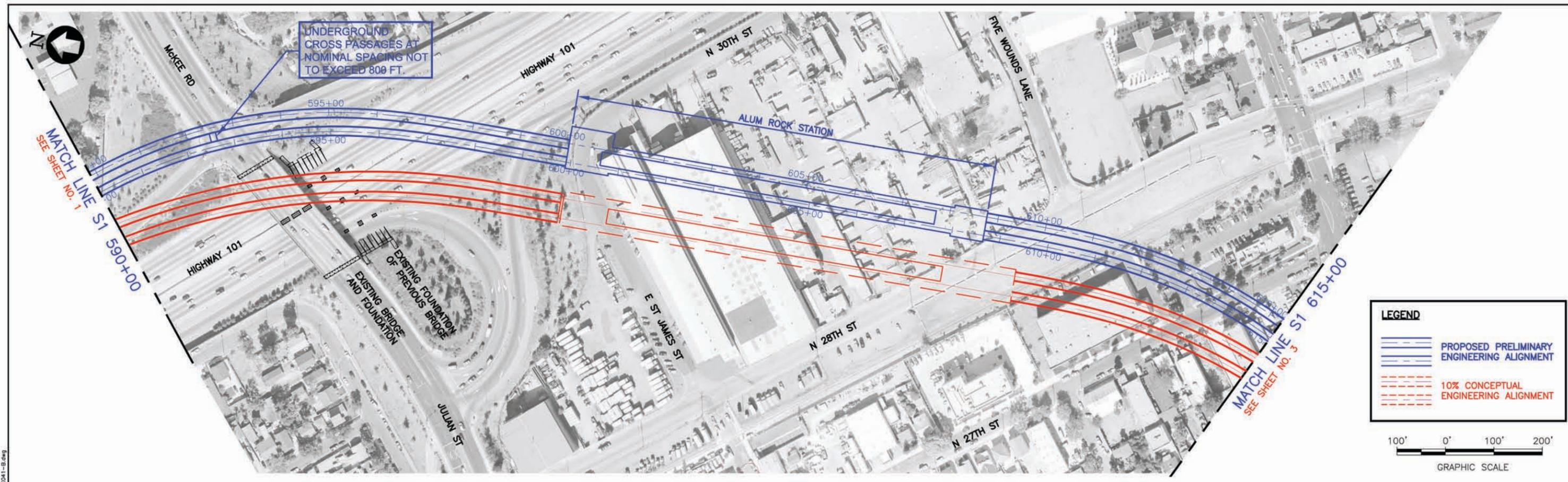
NOTE: PE STATIONING SHOWN, CE STATIONING NOT COMMON.

DRAWING IS SCHEMATIC AND FOR ALIGNMENT COMPARISON PURPOSES ONLY.

Figure B-41

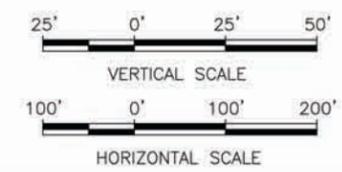
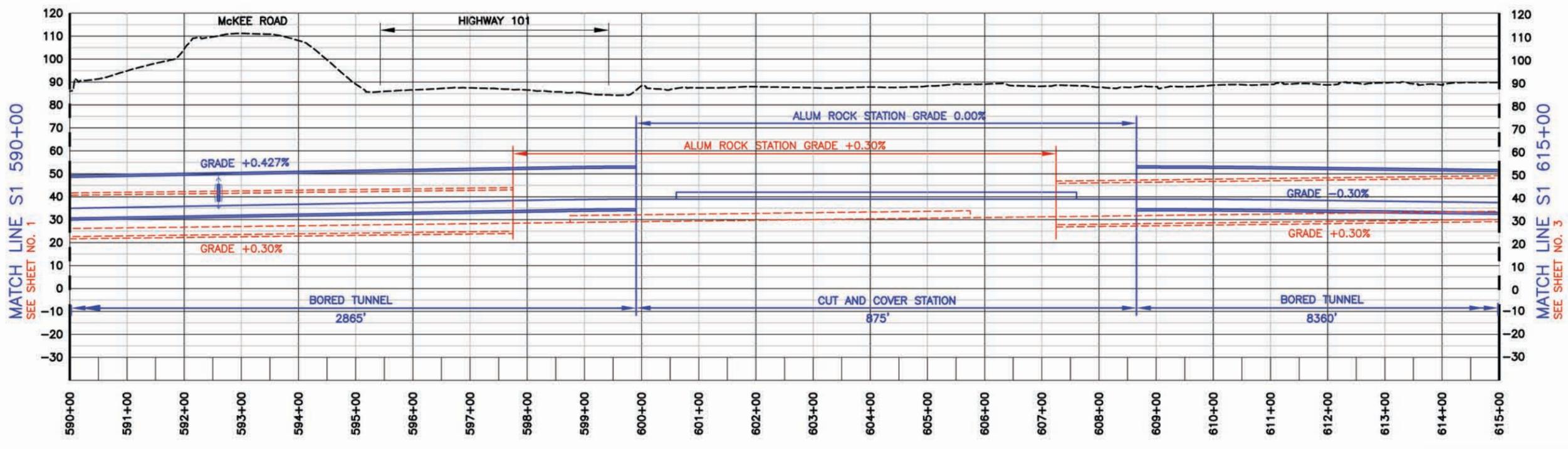
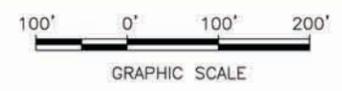
BART EXTENSION PROJECT
PROPOSED P.E. ALIGNMENT
 10% TO 35% COMPARISON
 SHEET 1 OF 10
 PLAN & PROFILE
 D300-S-TR-X040-B.dwg

WHITE_M Jul 21, 2016 - 3:14pm W:\UCAD\0358_P\0300\PRESENTATIONS\TR-35ED_Reports\Environmental Impact Report (State) - Comparison for Single Station\0300-S-TR-X040-B.dwg



LEGEND

- PROPOSED PRELIMINARY ENGINEERING ALIGNMENT
- 10% CONCEPTUAL ENGINEERING ALIGNMENT



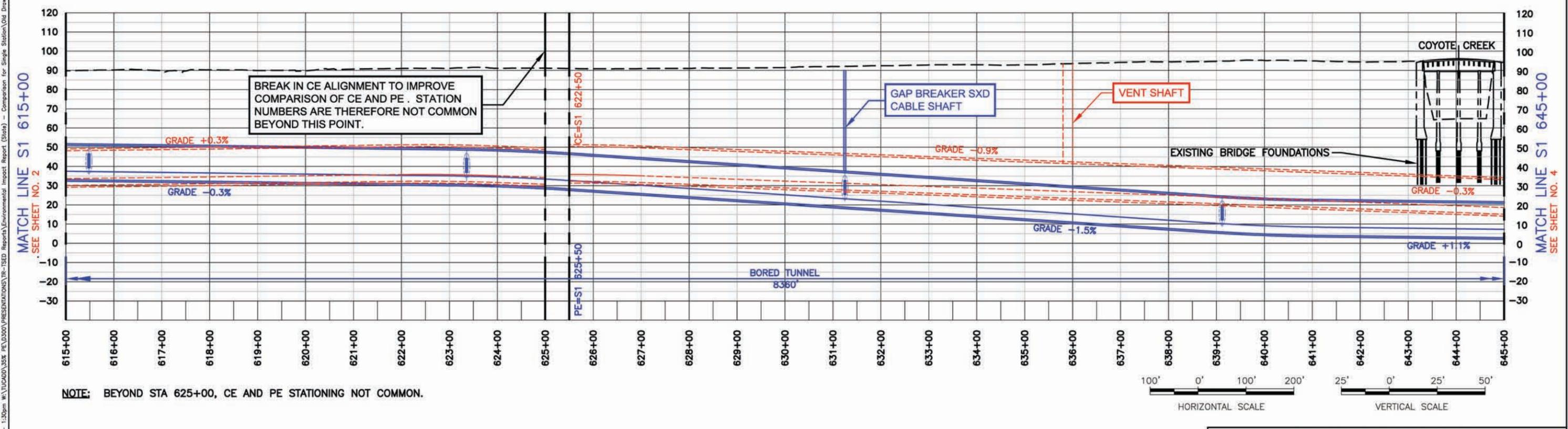
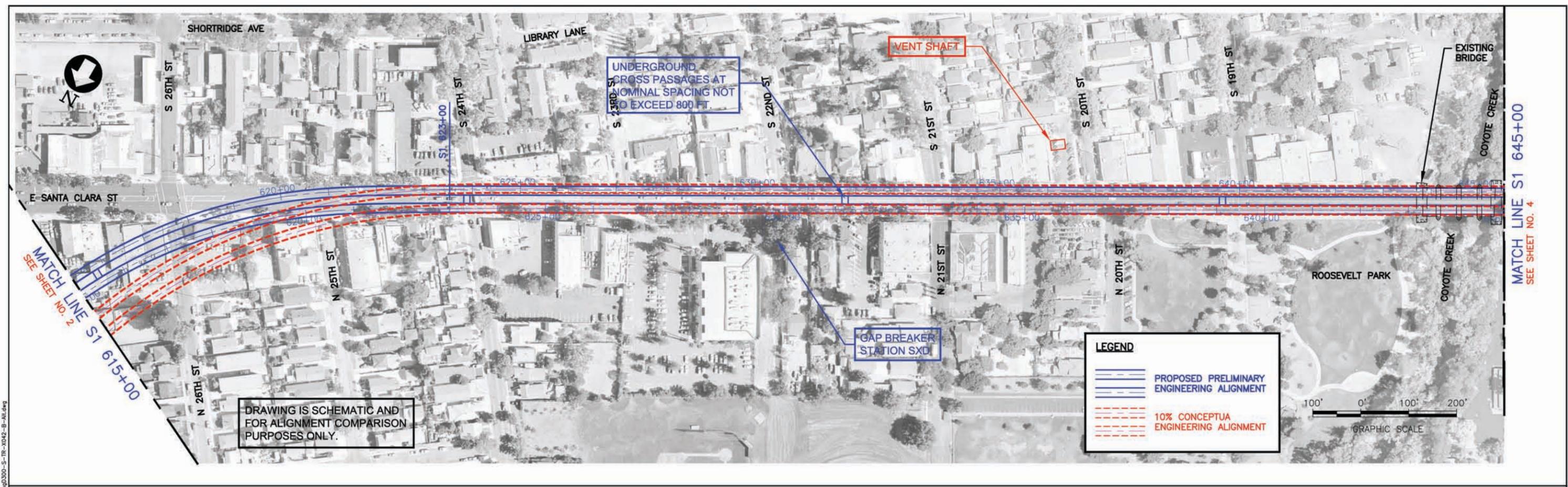
NOTE: PE STATIONING SHOWN, CE STATIONING NOT COMMON.

DRAWING IS SCHEMATIC AND FOR ALIGNMENT COMPARISON PURPOSES ONLY.

Figure B-42

**BART EXTENSION PROJECT
PROPOSED P.E. ALIGNMENT**
 10% TO 35% COMPARISON
 SHEET 2 OF 10
 PLAN & PROFILE
 D300-S-TR-X041-B.dwg

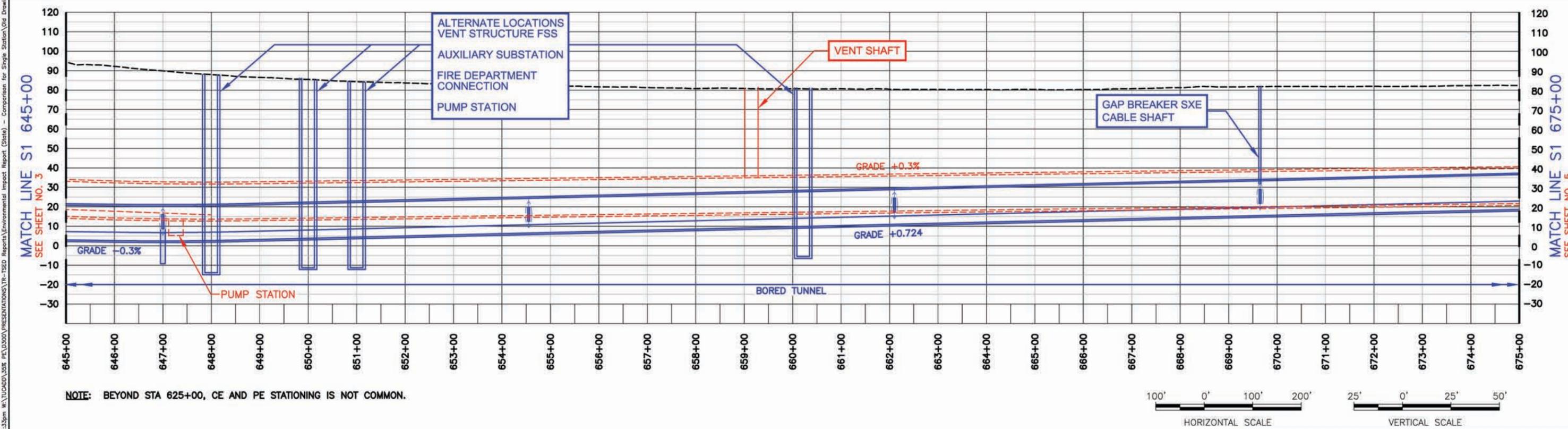
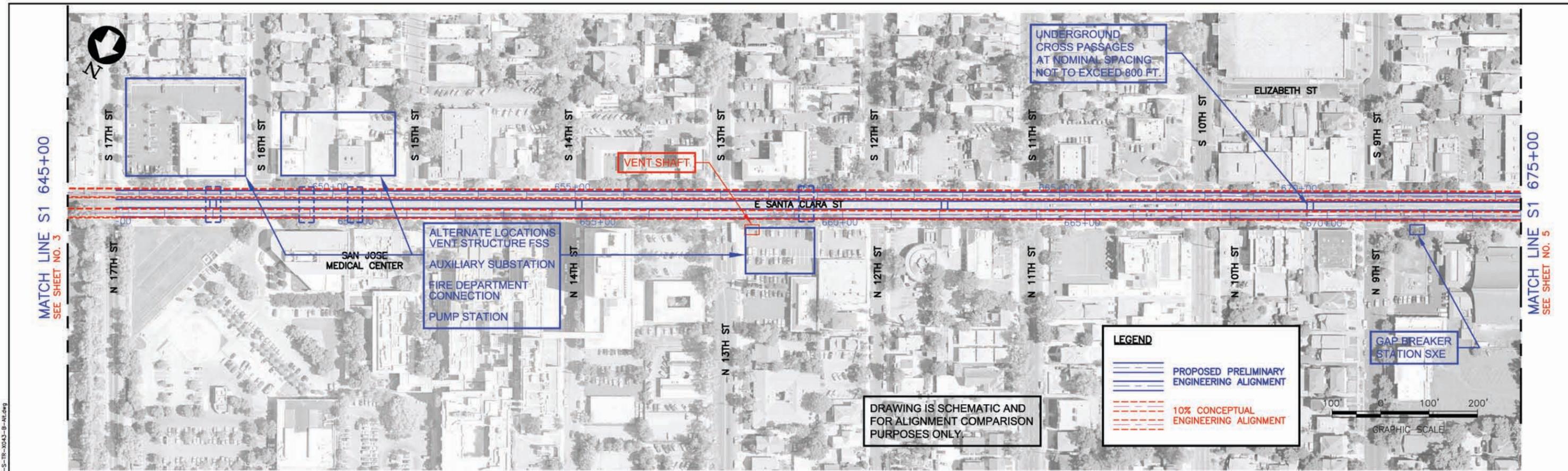
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WHITE_M Oct 11, 2006 1:30pm W:\TUGAD\BART_P\3000\PRESENTATIONS\TR-15ED Reports\Environmental Impact Report (State) - Comparison for Single Station\Old Drawing\3000-S-TR-X042-B-Alt.dwg

Figure B-43

BART EXTENSION PROJECT
PROPOSED P.E. ALIGNMENT
 10% TO 35% COMPARISON - SINGLE DOWNTOWN STATION OPTION
 SHEET 3 OF 10
 PLAN & PROFILE - SANTA CLARA ST/COYOTE CREEK
 D300-S-TR-X042-B-Alt.dwg



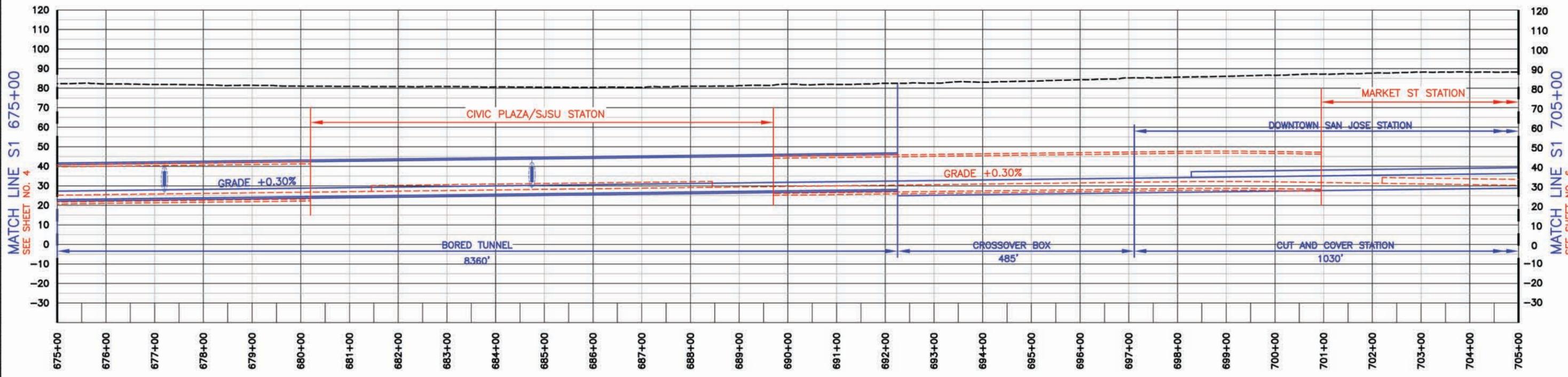
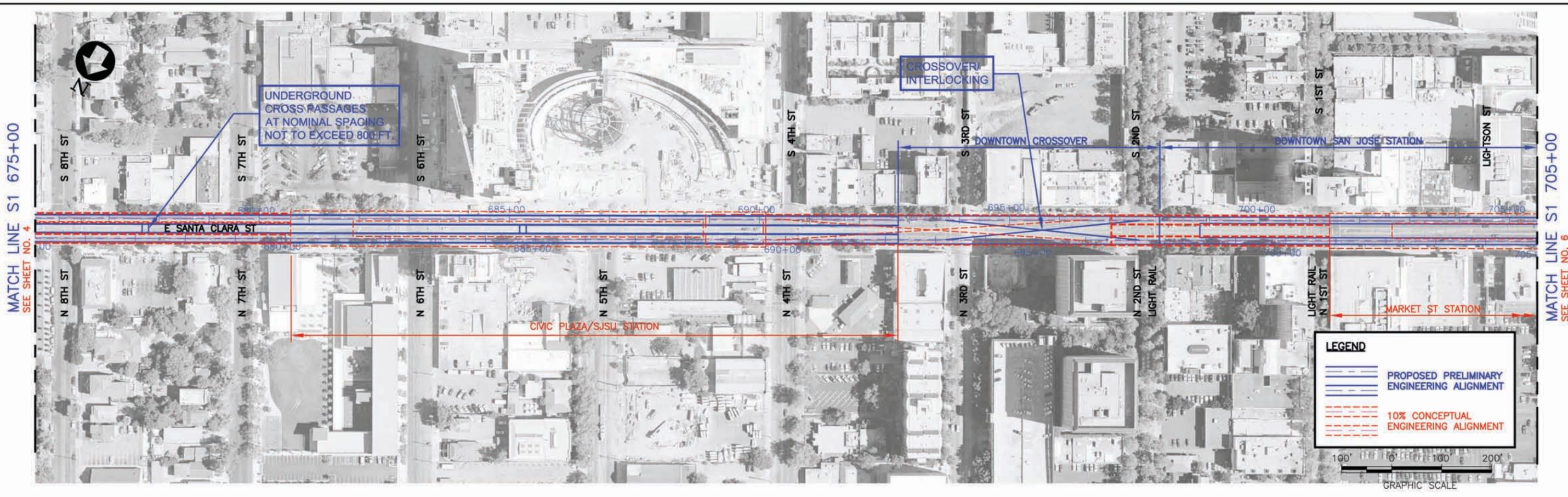
NOTE: BEYOND STA 625+00, CE AND PE STATIONING IS NOT COMMON.

Figure B-44

BART EXTENSION PROJECT
PROPOSED P.E. ALIGNMENT
 10% TO 35% COMPARISON - SINGLE DOWNTOWN STATION OPTION
 SHEET 4 OF 10
 PLAN & PROFILE - SANTA CLARA ST/COYOTE CREEK
 D300-S-TR-X043-B-Alt.dwg

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WHITE_M Jul 21, 2008 - 3:18pm W:\TUC040\SSR PE\0300\PRESENTATIONS\TR-15ED Reports\Environmental Impact Report (State) - Comparison for Single Station\0300-S-TR-X044-B.dwg



NOTE: PE STATIONING SHOWN, CE STATIONING NOT COMMON.

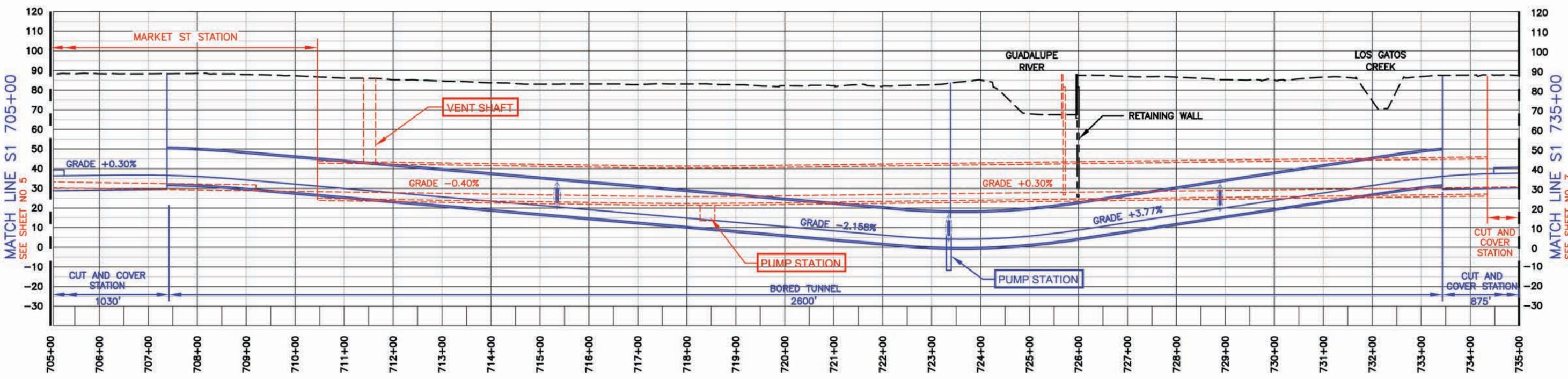
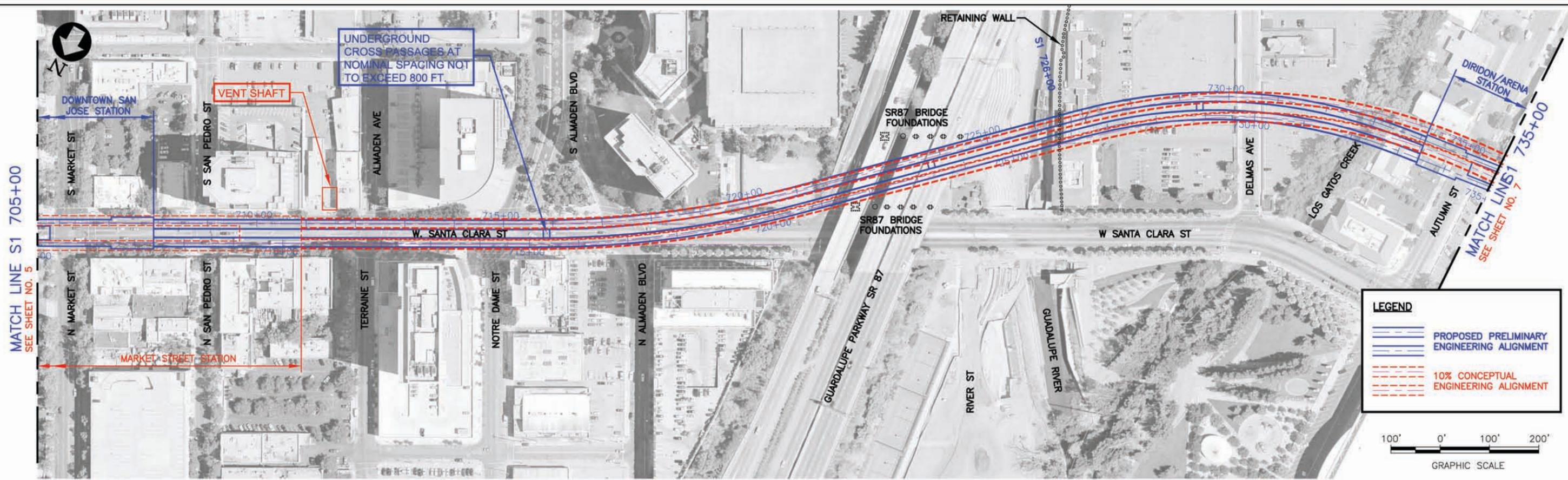
DRAWING IS SCHEMATIC AND FOR ALIGNMENT COMPARISON PURPOSES ONLY.



**BART EXTENSION PROJECT
PROPOSED P.E. ALIGNMENT**
10% TO 35% COMPARISON
SHEET 5 OF 10
PLAN & PROFILE
D300-S-TR-X044-B.dwg

Figure B-45

WHITE_M Jul 21, 2006 - 3:18pm W:\TUCAD00\305 PE\3050\PRESENTATIONS\TR-TRSD Reports\Environmental Impact Report (State) - Comparison for Single Station\0300-S-TR-X045-B.dwg

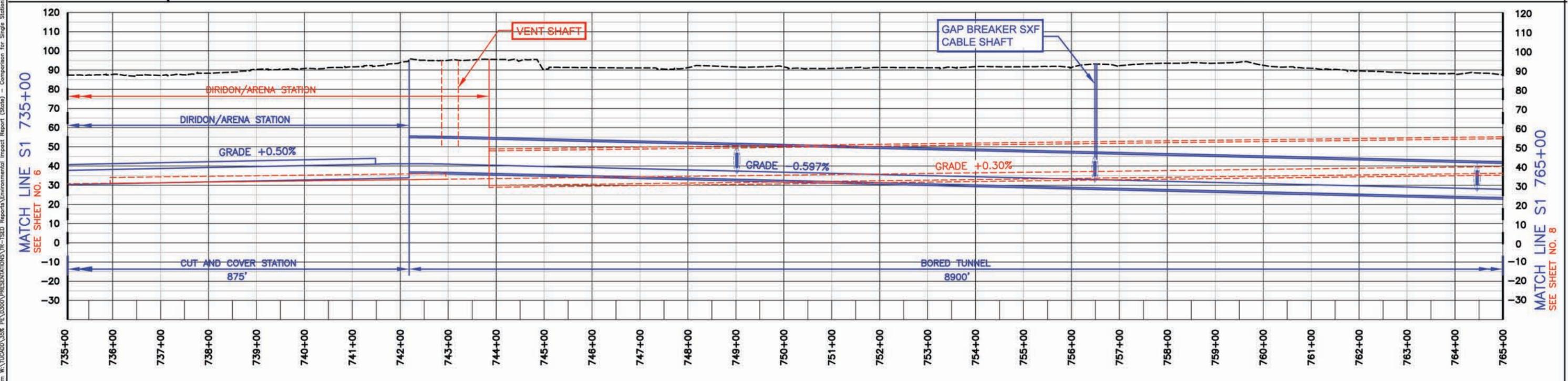
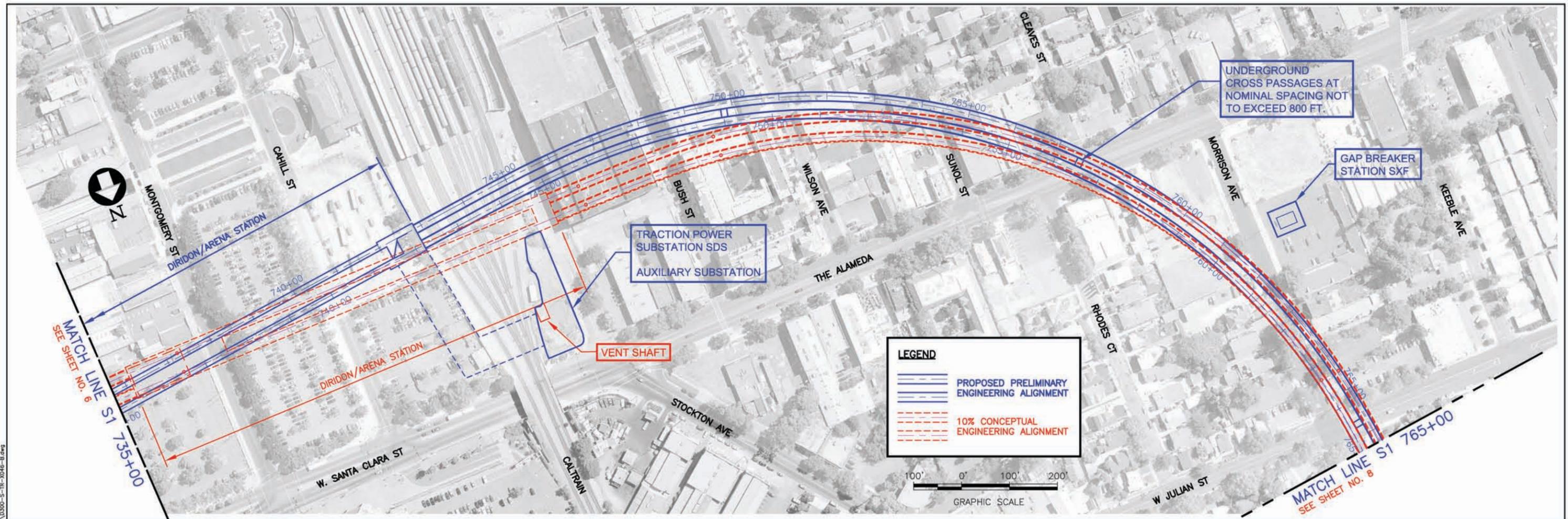


NOTE: PE STATIONING SHOWN, CE STATIONING NOT COMMON.

DRAWING IS SCHEMATIC AND FOR ALIGNMENT COMPARISON PURPOSES ONLY.

Figure B-46

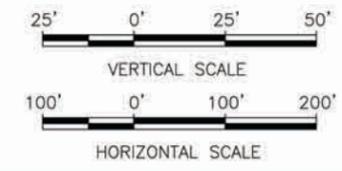
BART EXTENSION PROJECT
 PROPOSED P.E. ALIGNMENT
 10% TO 35% COMPARISON
 SHEET 6 OF 10
 PLAN & PROFILE
 D300-S-TR-X045-B.dwg



NOTE: PE STATIONING SHOWN, CE STATIONING NOT COMMON.

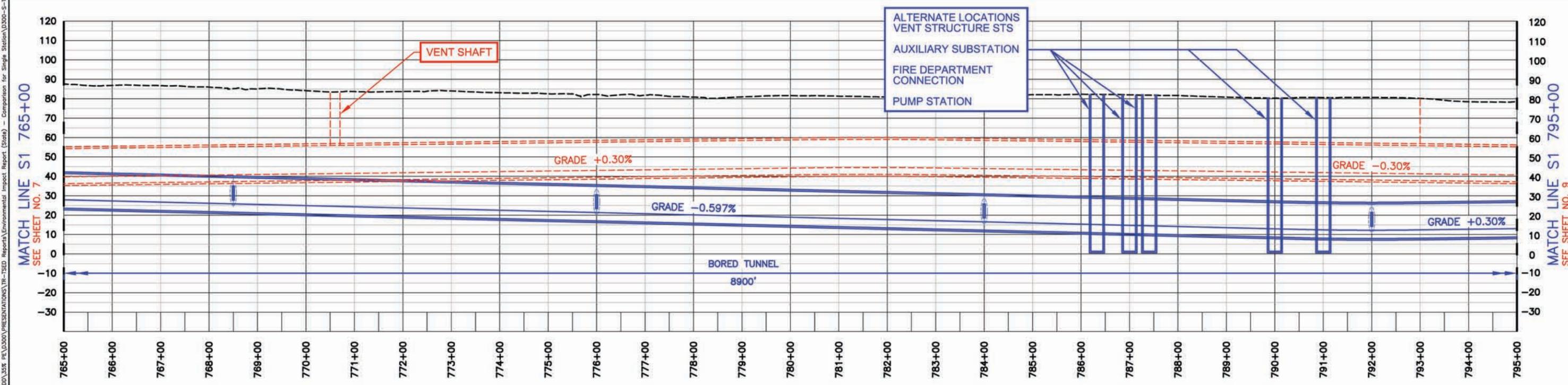
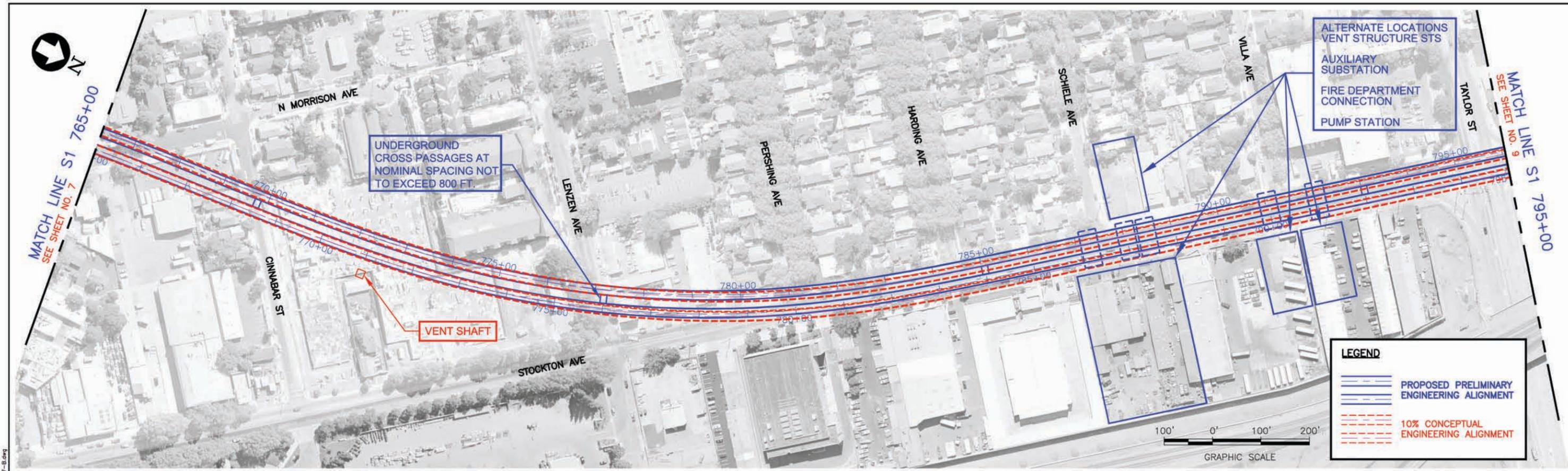
DRAWING IS SCHEMATIC AND FOR ALIGNMENT COMPARISON PURPOSES ONLY.

Figure B-47



BART EXTENSION PROJECT
 PROPOSED P.E. ALIGNMENT
 10% TO 35% COMPARISON
 SHEET 7 OF 10
 PLAN & PROFILE
 D300-S-TR-X046-B.dwg

WHITE_M Jul 21, 2006 3:20pm W:\D300\PRESENTATIONS\TR-TRSD Reports\Environmental Impact Report (State) - Comparison for Single Station\0300-S-TR-X046-B.dwg



NOTE: PE STATIONING SHOWN, CE STATIONING NOT COMMON.

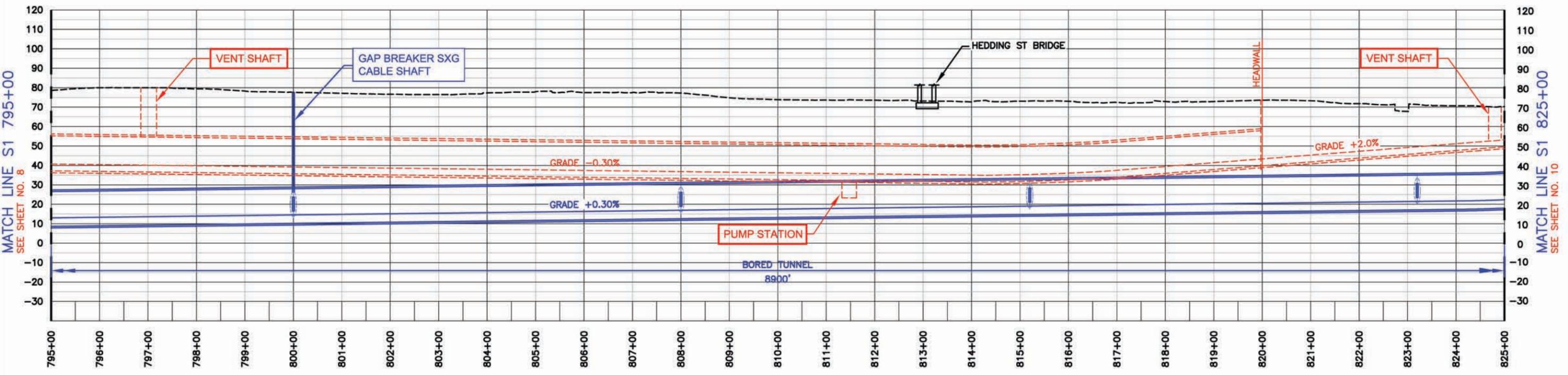
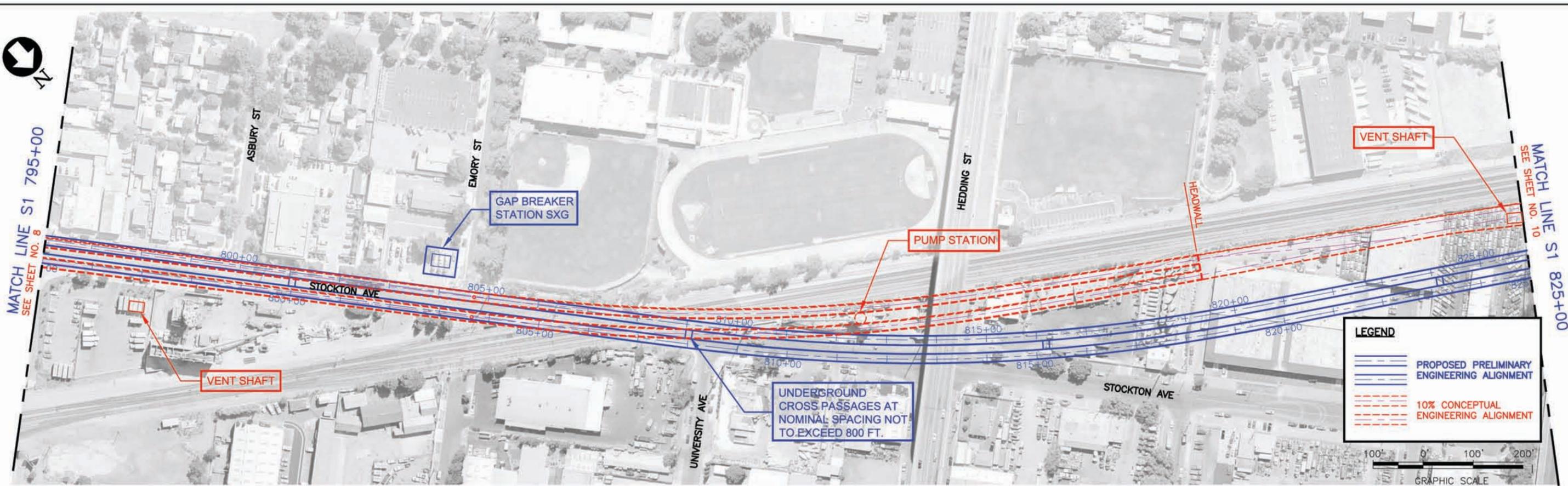
DRAWING IS SCHEMATIC AND FOR ALIGNMENT COMPARISON PURPOSES ONLY.

Figure B-48

BART EXTENSION PROJECT
PROPOSED P.E. ALIGNMENT
 10% TO 35% COMPARISON
 SHEET 8 OF 10
 PLAN & PROFILE
 D300-S-TR-X047-B.dwg

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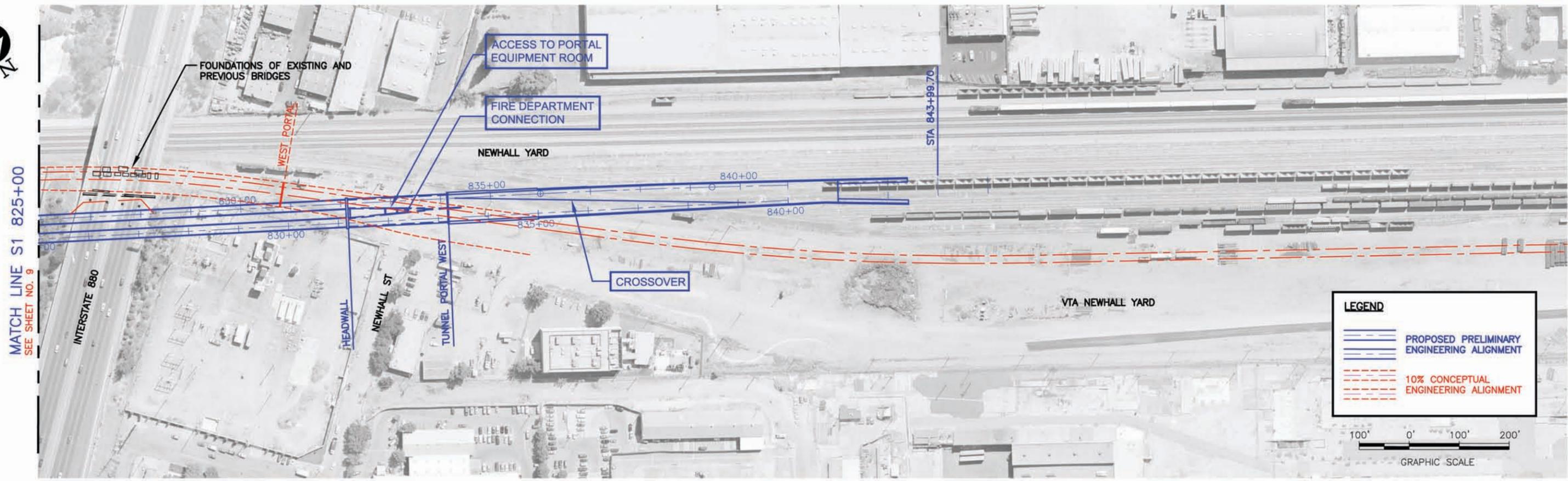
NOTE: PE STATIONING SHOWN, CE STATIONING NOT COMMON.

DRAWING IS SCHEMATIC AND FOR ALIGNMENT COMPARISON PURPOSES ONLY.



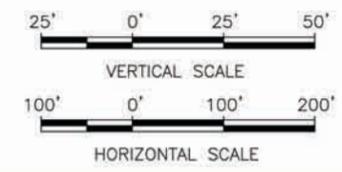
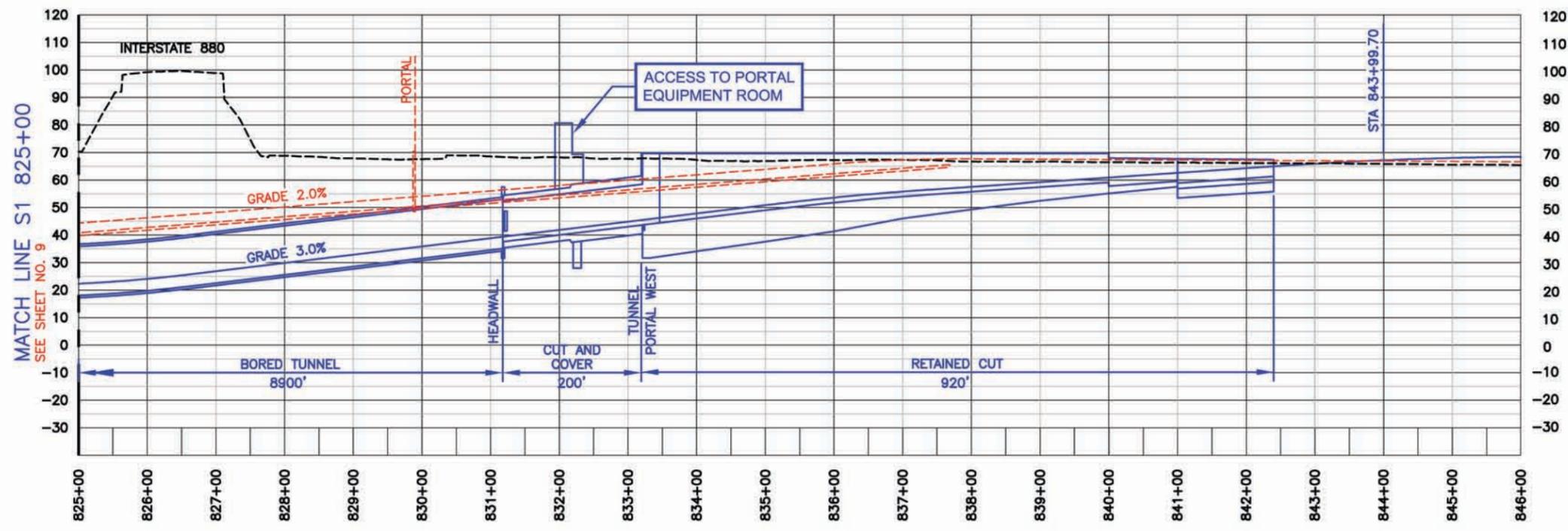
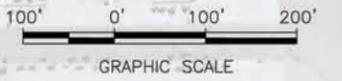
**BART EXTENSION PROJECT
PROPOSED P.E. ALIGNMENT**
10% TO 35% COMPARISON
SHEET 9 OF 10
PLAN & PROFILE
D300-S-TR-X048-B.dwg

Figure B-49



LEGEND

- PROPOSED PRELIMINARY ENGINEERING ALIGNMENT
- 10% CONCEPTUAL ENGINEERING ALIGNMENT



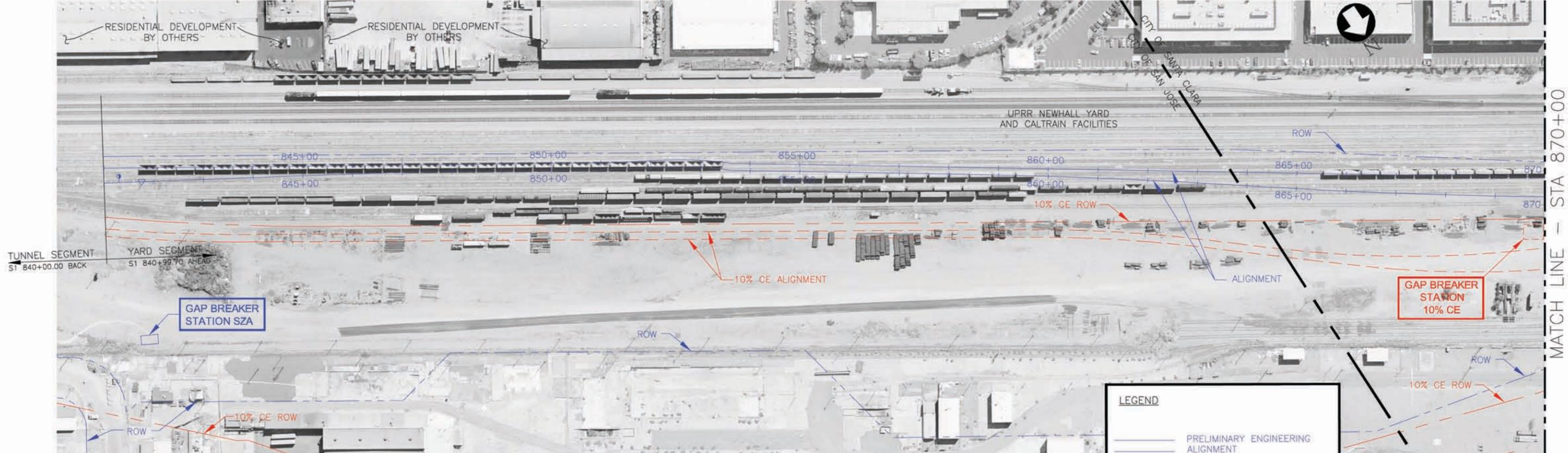
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DRAWING IS SCHEMATIC AND FOR ALIGNMENT COMPARISON PURPOSES ONLY.

Figure B-50

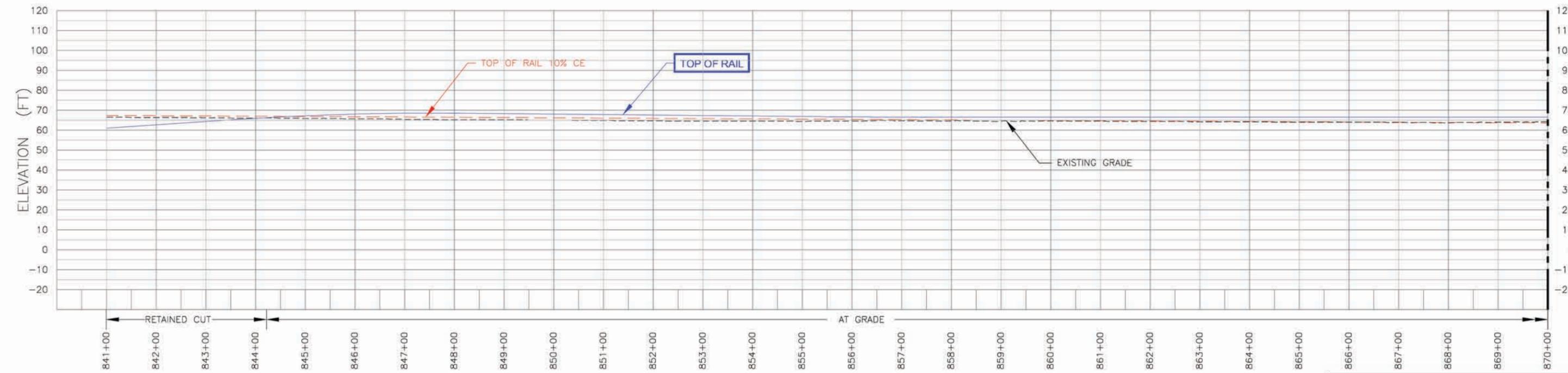
BART EXTENSION PROJECT
PROPOSED P.E. ALIGNMENT
 10% TO 35% COMPARISON
 SHEET 10 OF 10
 PLAN & PROFILE
 D300-S-TR-X049-B.dwg

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LEGEND

- PRELIMINARY ENGINEERING ALIGNMENT
- 10% CONCEPTUAL ENGINEERING ALIGNMENT

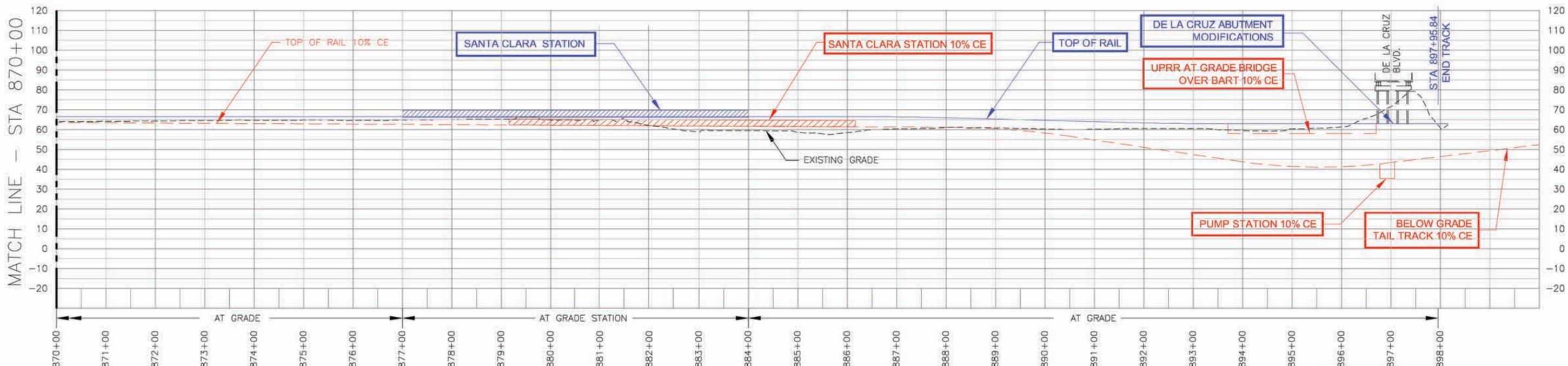
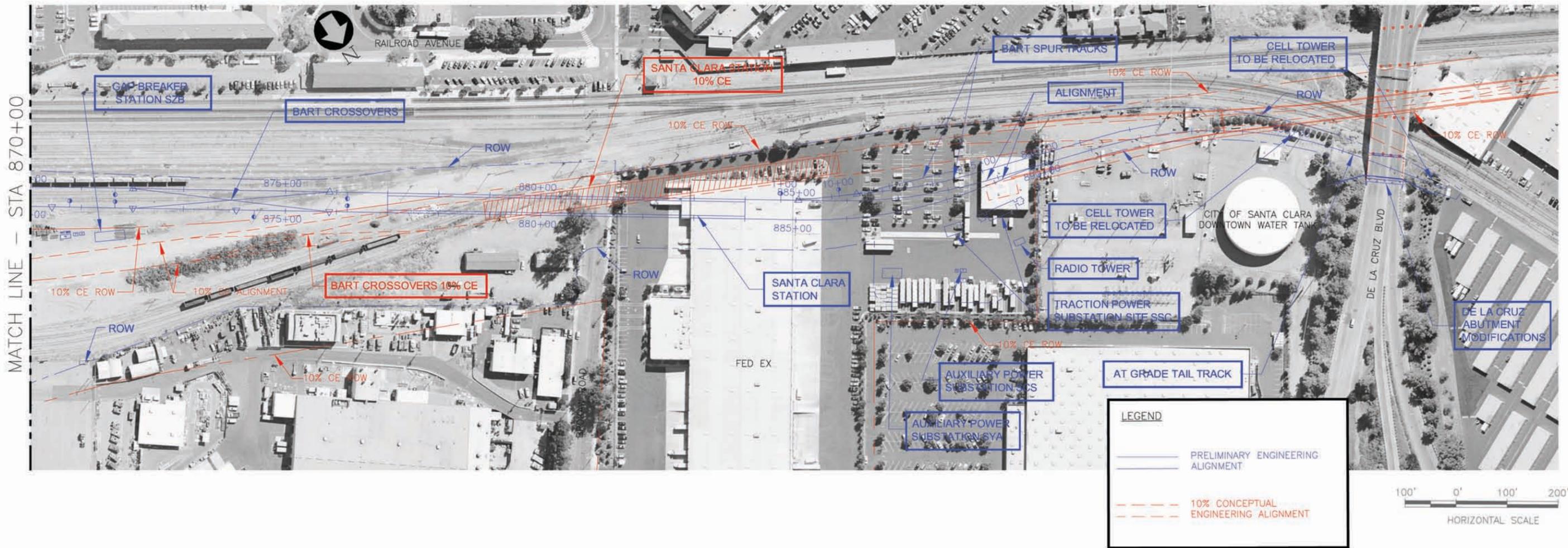


DRAWING IS SCHEMATIC AND FOR ALIGNMENT COMPARISON PURPOSES ONLY.

Figure B-51

**BART EXTENSION PROJECT
PROPOSED P.E. ALIGNMENTS**
PLAN & PROFILE
STA 840+99.70 TO STA 870+00

c:\baid Sep 07, 2006 - 2:08pm N:\30224 - SWRT Yards & Shops\TIC\PROJ\TSCAD\ENVIRONMENTAL SUBMITTAL_20060907\DWG\FIGURE B-64_SEPT2006.dwg



DRAWING IS SCHEMATIC AND FOR ALIGNMENT COMPARISON PURPOSES ONLY.

Figure B-52

**BART EXTENSION PROJECT
PROPOSED P.E. ALIGNMENTS**
PLAN & PROFILE
STA 870+00 TO STA 898+15.18

c:\david... Sep 07, 2006 - 2:59pm N:\30224 - SWRT Yards & Shops\TIC\PROJ\TSCAD\ENVIRONMENTAL SUBMITTAL_20060907\DWG\FIGURE B-65_SEPT2006.dwg

