APPENDIX E

CONCEPTUAL ENGINEERING DRAWINGS

PART 1

Alignment A Drawings

Alignment B Drawings

Alignment C Drawings

POTENTIAL DETENTION POND

CONSTRUCTION LIMITS

IMPACTED PROPERTY (PARTIAL)

HEMLOCK LANE P&R STATION

304 PARKING STALLS

6174+01

NEW SIGNALIZED INTERSECTION

6170+00

6165+00

NB LRT

SB LRT

SITE GRADING AND ROADWAY BY OTHERS

ARBOR LAKES PKWY

6160+00

6155+00

NEW SIGNALIZED INTERSECTION

6150+00

SITE GRADING AND ROADWAY BY OTHERS

ZACHARY LA

BEGIN SEGMENT A

HEMLOCK LA

TPSS A-1

POTENTIAL OMF LOCATION

ELM CREEK BLVD

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Bottineau Transitway
DRAFT ENVIRONMENTAL IMPACT STATEMENT

Hennepin

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DATE: 9/5/2012
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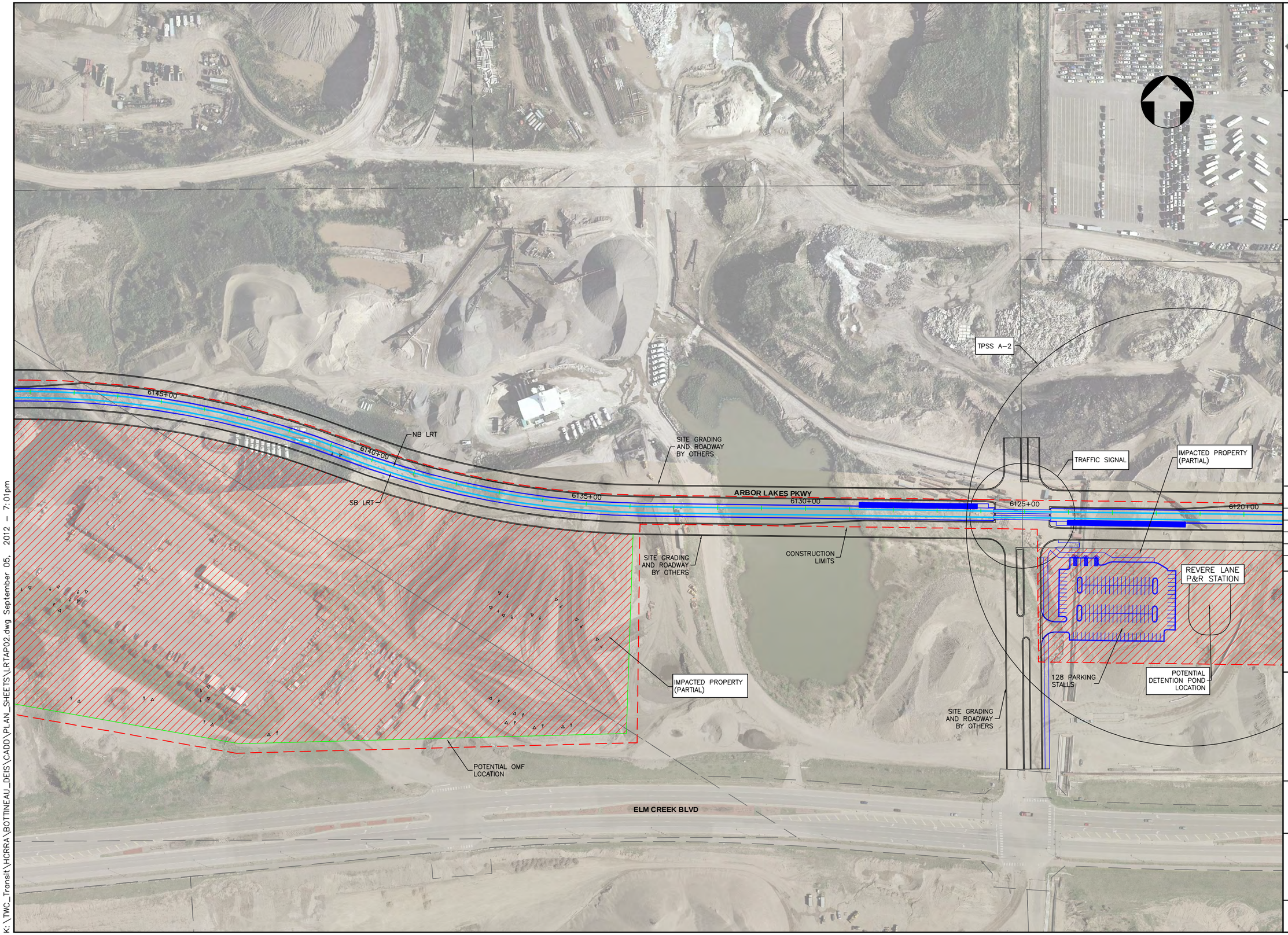
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BOTTINEAU TRANSITWAY
DRAFT EIS
CONCEPTUAL DESIGN

LRT ALIGNMENT A
SHEET 1 OF 21

ALIGNMENT PLAN
STA 6148+00-6174+01

SHEET NUMBER
1 OF 122



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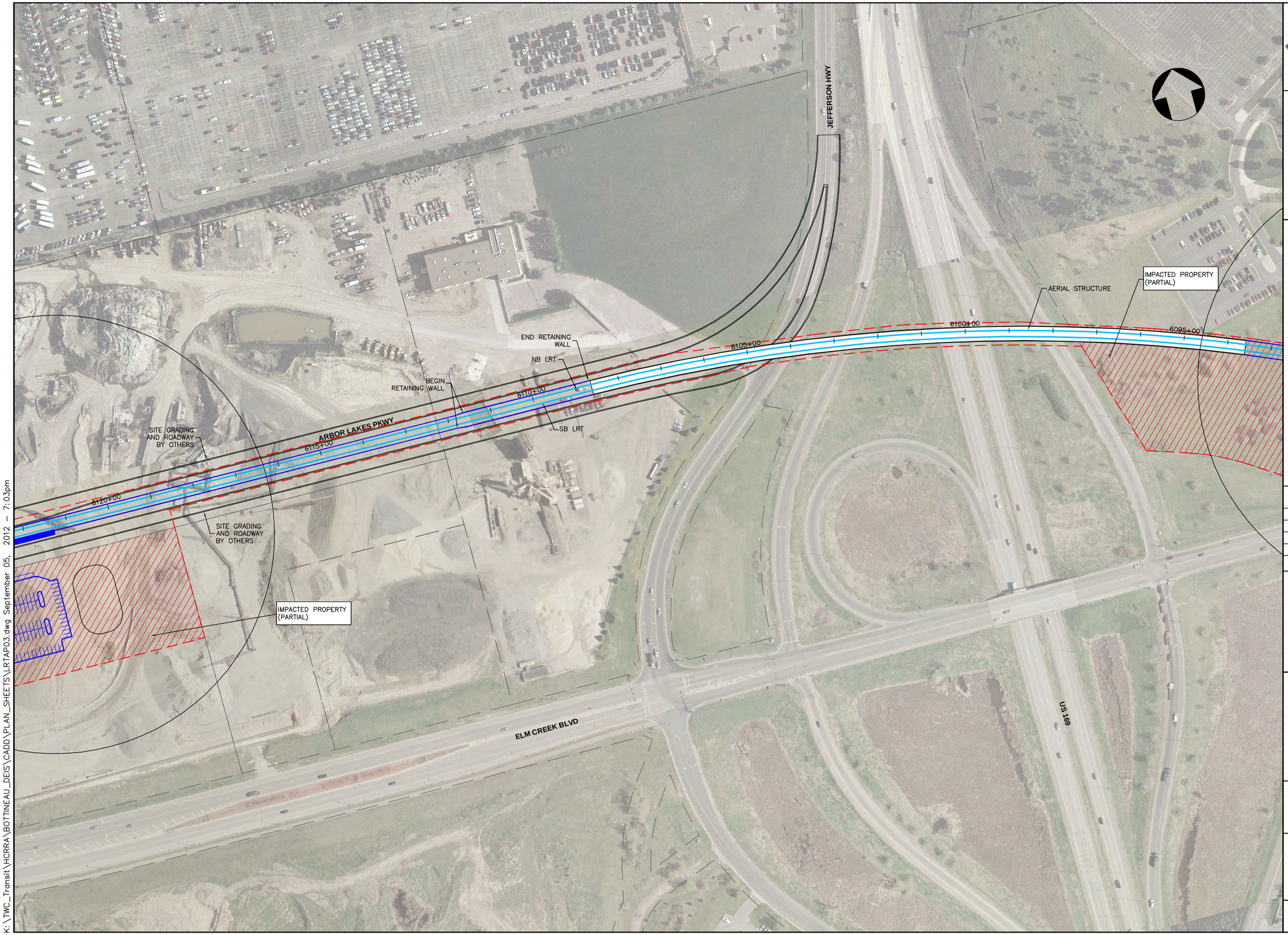
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BOTTINEAU TRANSITWAY
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SHEET 2 OF 21

ALIGNMENT PLAN
STA 6120+00 - 6148+00

SHEET NUMBER
2 OF 122



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SCALE
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BOTTINEAU TRANSITWAY
DRAFT EIS
CONCEPTUAL DESIGN

LRT ALIGNMENT A
SHEET 3 OF 21

ALIGNMENT PLAN
STA 6093+00 - 6122+00

SHEET NUMBER
3 OF 122

AERIAL STRUCTURE

6095+00

END RETAINING WALL

BEGIN RETAINING WALL

6090+00

CONSTRUCTION LIMIT

HENNEPIN TECHNICAL COLLEGE STATION

IMPACTED PROPERTY (PARTIAL) TYP.

6085+00

BROOKLYN BLVD

6080+00

6075+00

6070+00

78TH AV

AQUILLA AVE

TRAFFIC SIGNAL

TRAFFIC SIGNAL

TPSS A-3

TPSS A-4

NORTHLAND DR

BOONE AVE

MENDELSSOHN AVE

IMPACTED PROPERTY (FULL) TYP.

IMPACTED PROPERTY (FULL) TYP.

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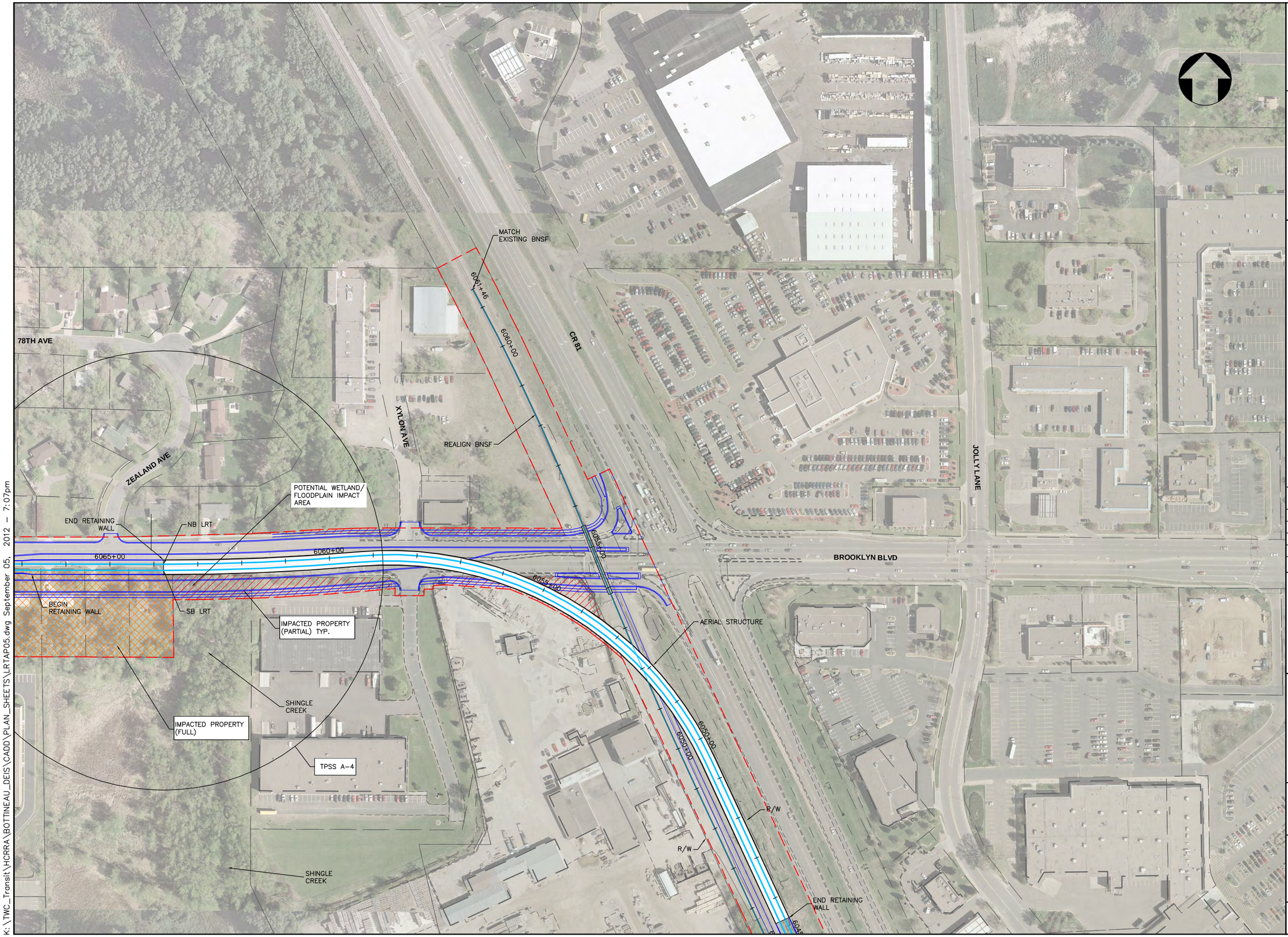
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BOTTINEAU TRANSITWAY
DRAFT EIS
CONCEPTUAL DESIGN

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SHEET 4 OF 21

ALIGNMENT PLAN
STA 6067+00 - 6093+00

SHEET NUMBER
4 OF 122



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BOTTINEAU TRANSITWAY
DRAFT EIS
CONCEPTUAL DESIGN

LRT ALIGNMENT A
SHEET 5 OF 21

ALIGNMENT PLAN
STA 6045+00 - 6067+00

SHEET NUMBER
5 OF 122

JOLLY LA

LAKELAND AVE

CR 81

AERIAL STRUCTURE

6050+00

6045+00

6040+00

6035+00

6030+00

6025+00

R/W

NB LRT

POTENTIAL WETLAND IMPACT AREA

END RETAINING WALL

SB LRT

12' ACCESS ROAD

CONSTRUCTION LIMIT

R/W

REALIGN BNSF

BARRIER

SIGNALIZED CROSSING WITH GATES

79TH AVE

WINNETKA AVE

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Bottineau Transitway
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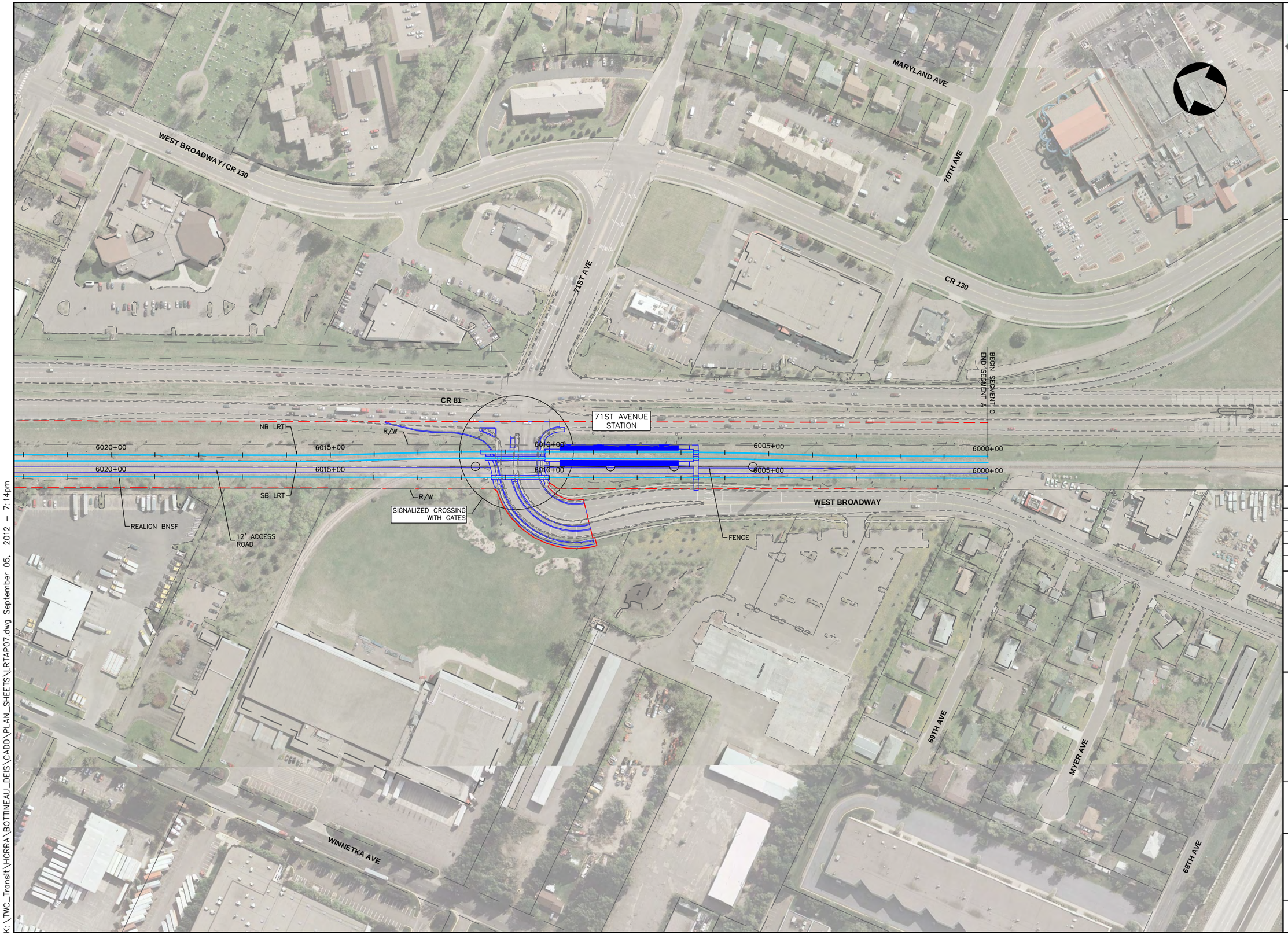
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BOTTINEAU TRANSITWAY
DRAFT EIS
CONCEPTUAL DESIGN

LRT ALIGNMENT A
SHEET 6 OF 21

ALIGNMENT PLAN
STA 6022+00 - 6050+00

SHEET NUMBER
6 OF 122



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Bottineau Transitway
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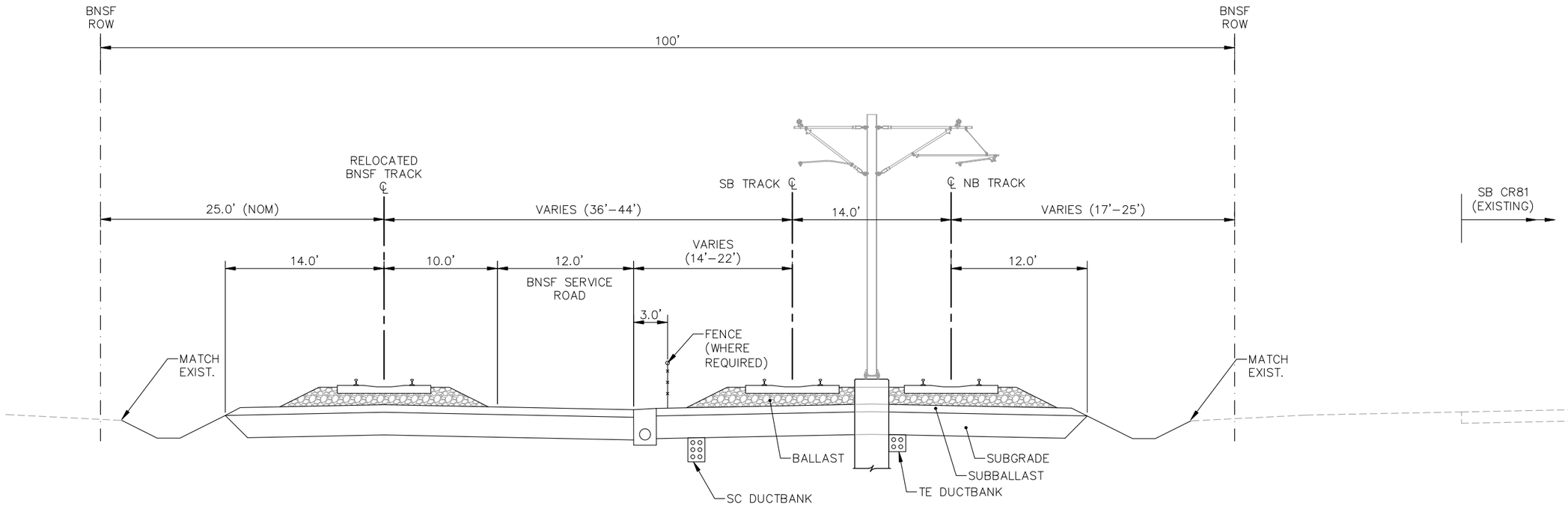
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BOTTINEAU TRANSITWAY
DRAFT EIS
CONCEPTUAL DESIGN

LRT ALIGNMENT A
SHEET 7 OF 21

ALIGNMENT PLAN
STA 6000+00 - 6022+00

SHEET NUMBER
7 OF 122



TYPICAL SECTION A-01
ALIGNMENT A - STA. 6000+00 TO STA. 6041+50

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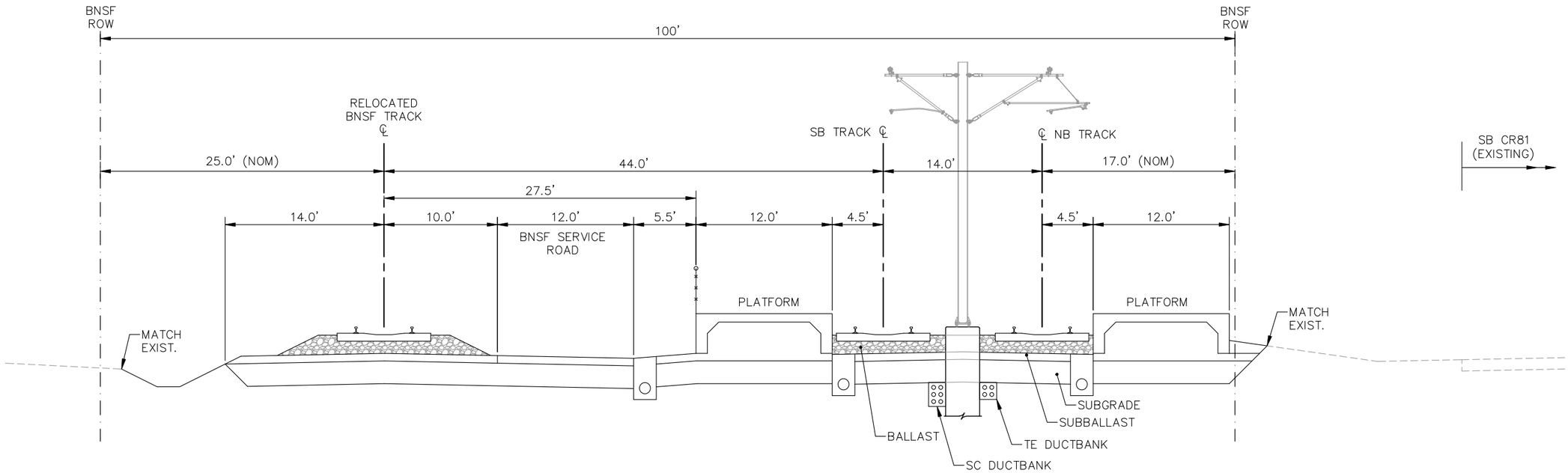
BOTTINEAU TRANSITWAY
DRAFT EIS
CONCEPTUAL DESIGN

LRT ALIGNMENT A
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TYPICAL SECTION A-01

SHEET NUMBER
8 OF 122

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TYPICAL SECTION A-01A
ALIGNMENT A - 71ST AVENUE STATION

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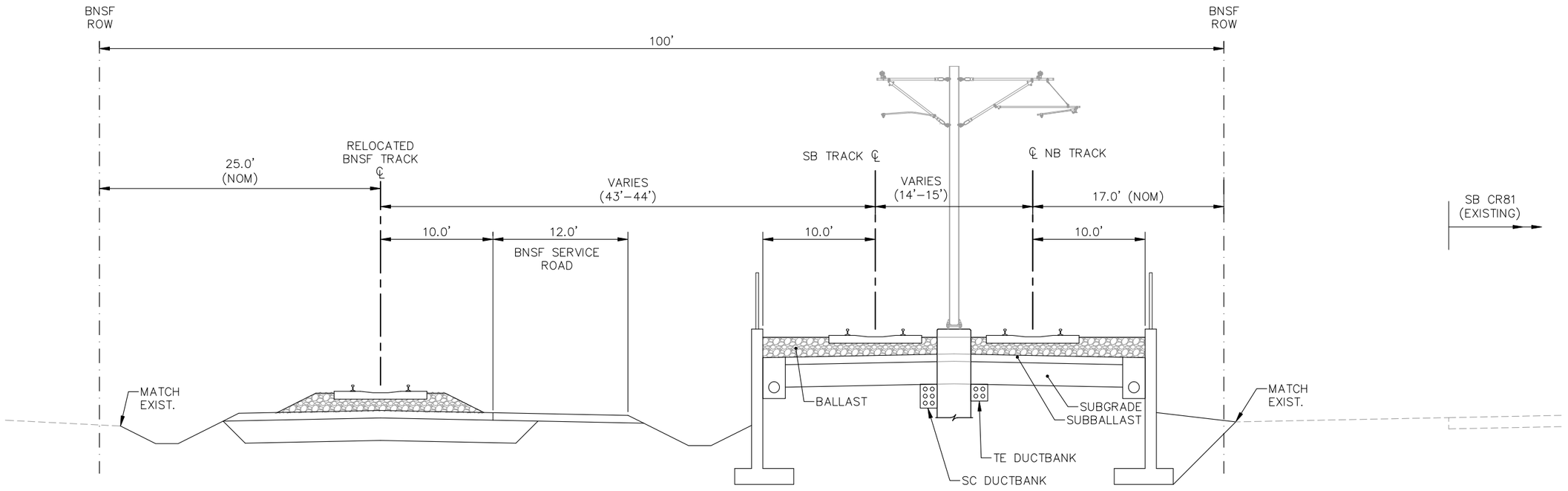
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BOTTINEAU CORRIDOR
DRAFT EIS
CONCEPTUAL DESIGN

LRT ALIGNMENT A
SHEET 9 OF 21

TYPICAL SECTION A-01A

SHEET NUMBER
9 OF 122



TYPICAL SECTION A-02
ALIGNMENT A - STA. 6041+50 TO STA. 6045+50

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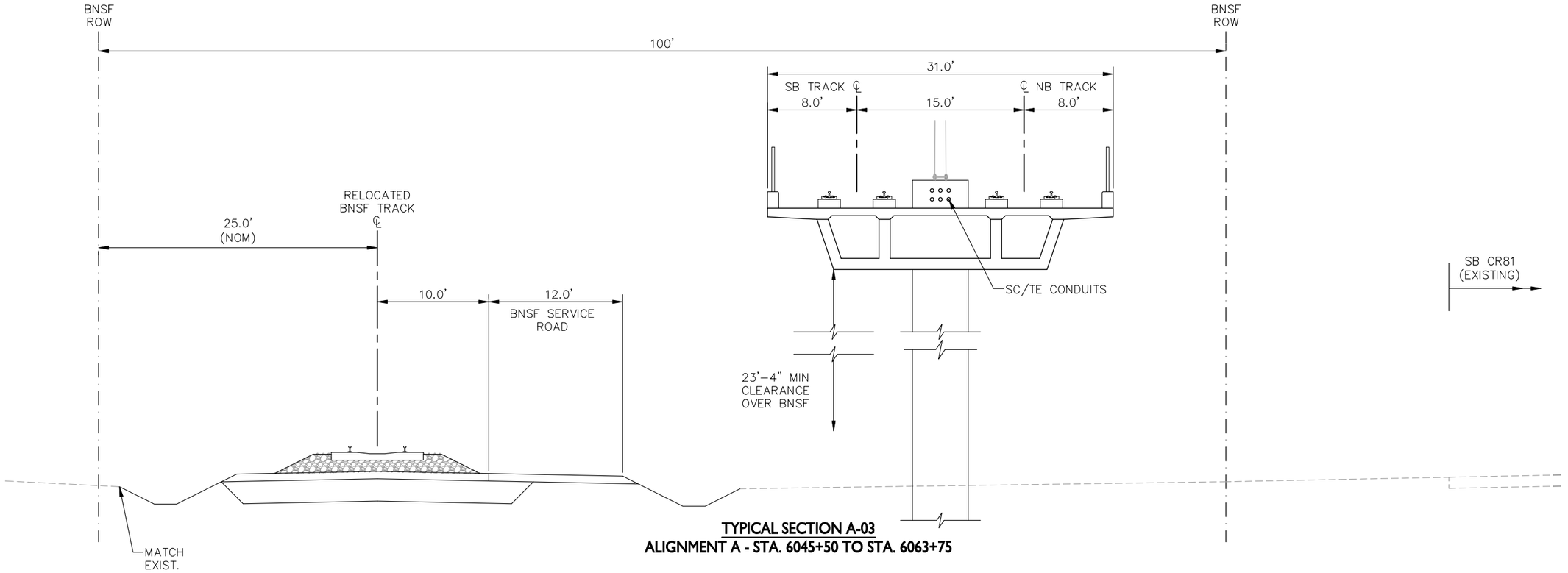
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BOTTINEAU CORRIDOR
DRAFT EIS
CONCEPTUAL DESIGN

LRT ALIGNMENT A
SHEET 10 OF 21

TYPICAL SECTION A-02

SHEET NUMBER
10 OF 122



TYPICAL SECTION A-03
ALIGNMENT A - STA. 6045+50 TO STA. 6063+75

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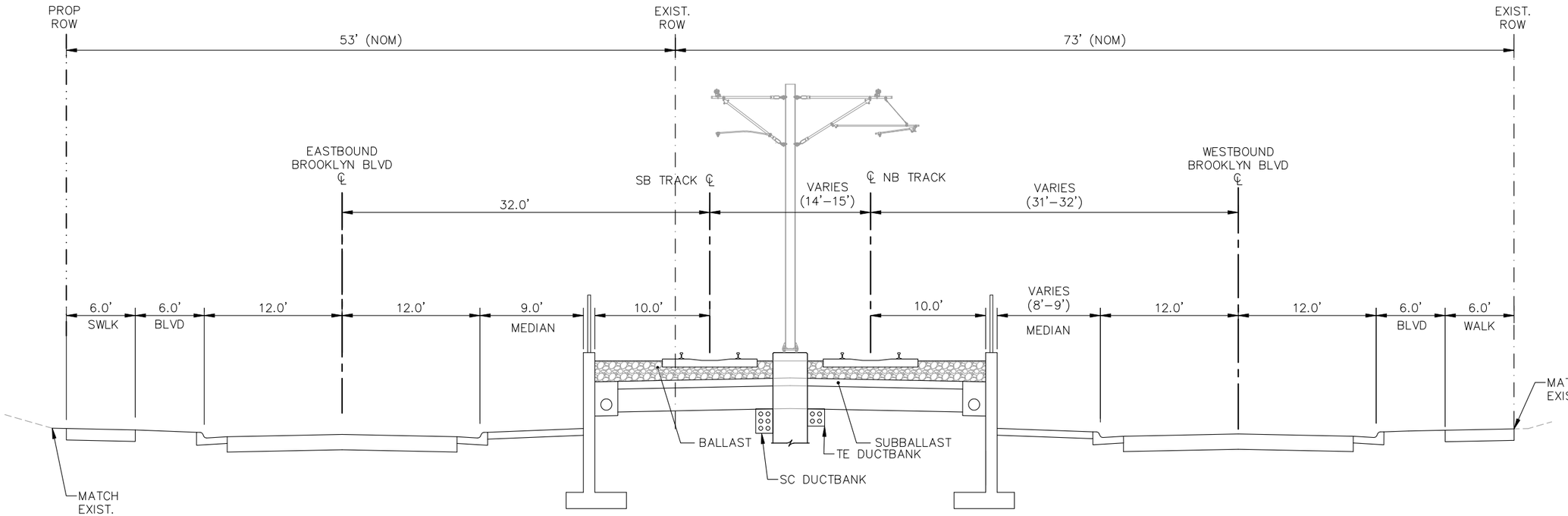
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BOTTINEAU CORRIDOR
DRAFT EIS
CONCEPTUAL DESIGN

LRT ALIGNMENT A
SHEET 11 OF 21

TYPICAL SECTION A-03

SHEET NUMBER
11 OF 122



TYPICAL SECTION A-04
ALIGNMENT A - STA. 6063+75 TO STA. 6066+75

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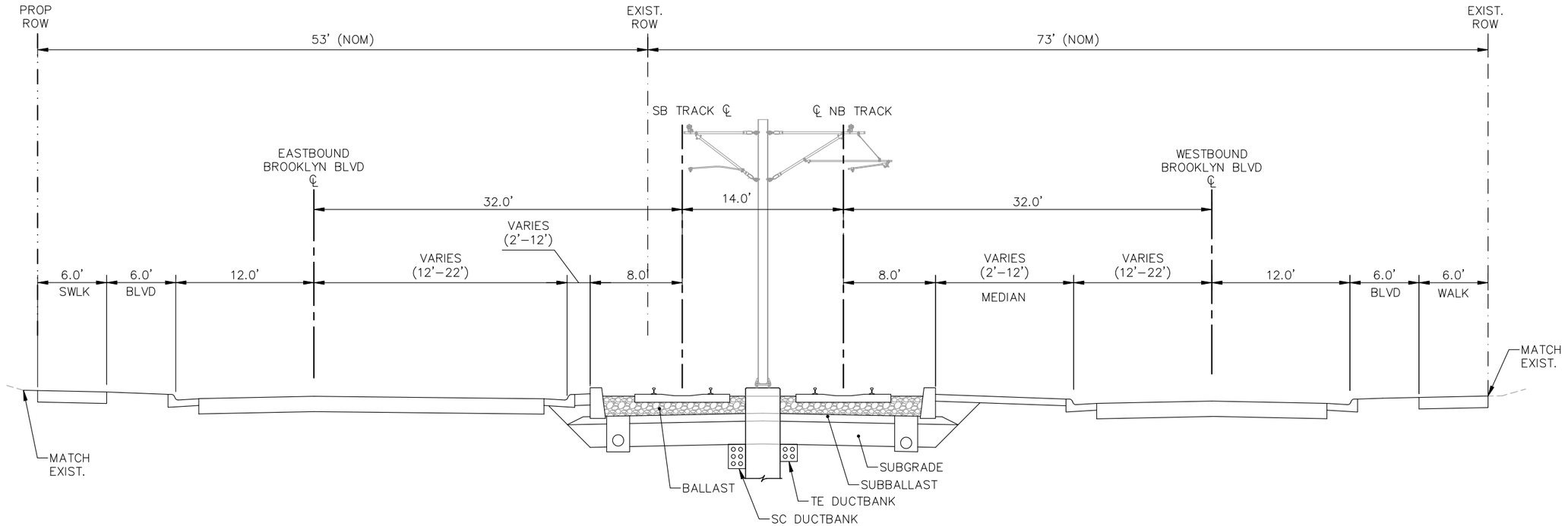
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LRT ALIGNMENT A
SHEET 12 OF 21

TYPICAL SECTION A-04

SHEET NUMBER
12 OF 122



TYPICAL SECTION A-05
ALIGNMENT A - STA. 6066+75 TO STA. 6085+00

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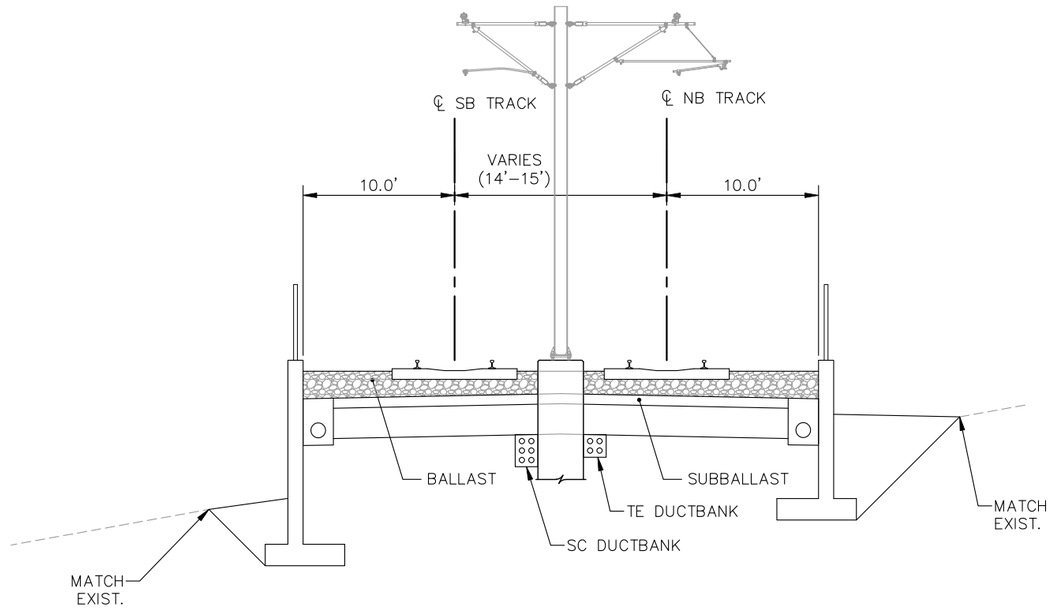
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BOTTINEAU CORRIDOR
DRAFT EIS
CONCEPTUAL DESIGN

LRT ALIGNMENT A
SHEET 13 OF 21

TYPICAL SECTION A-05

SHEET NUMBER
13 OF 122



TYPICAL SECTION A-06
ALIGNMENT A - STA. 6085+00 TO 6093+50

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Bottineau Transitway
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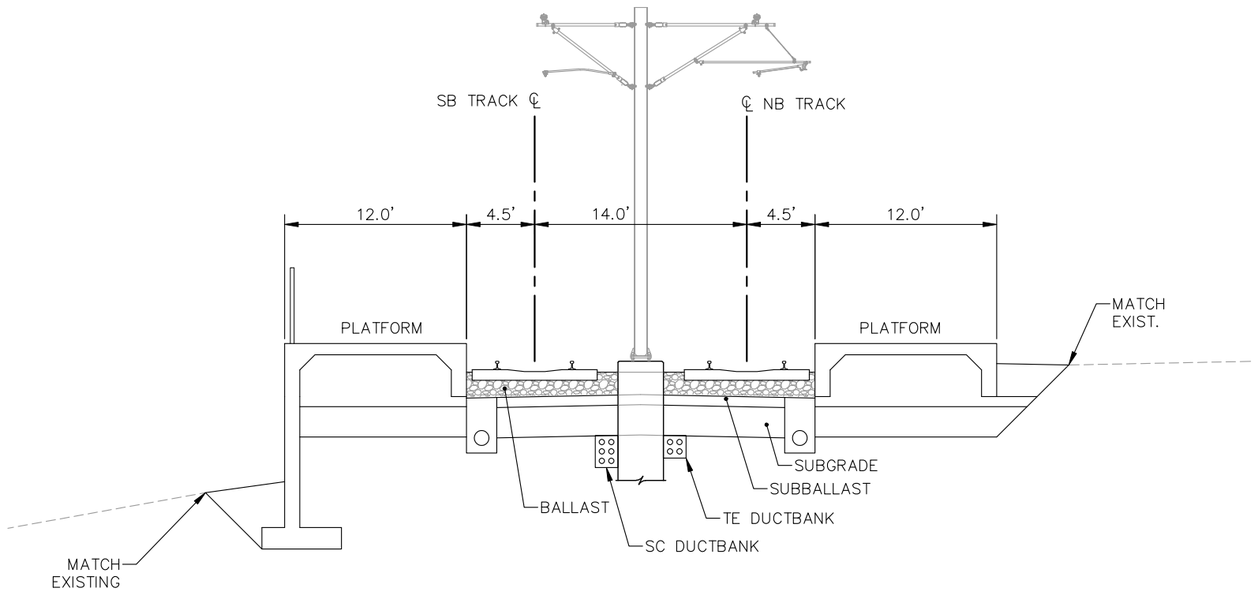
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BOTTINEAU CORRIDOR
DRAFT EIS
CONCEPTUAL DESIGN

LRT ALIGNMENT A
SHEET 14 OF 21

TYPICAL SECTION A-06

SHEET NUMBER
14 OF 122



TYPICAL SECTION 06A
ALIGNMENT A - HENNEPIN TECHNICAL COLLEGE STATION

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Bottineau Transitway
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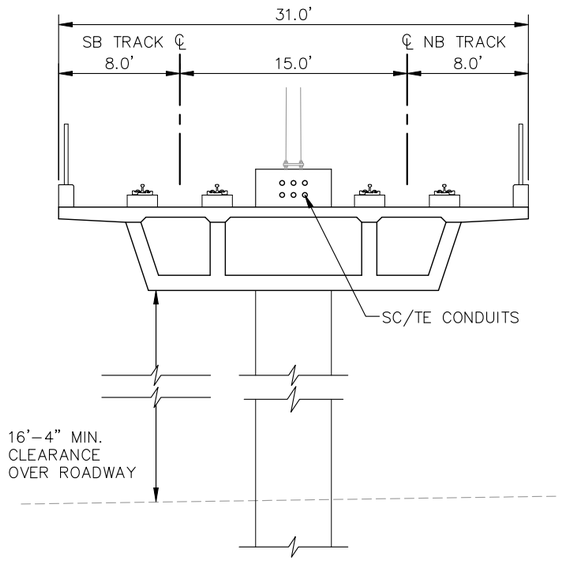
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BOTTINEAU CORRIDOR
DRAFT EIS
CONCEPTUAL DESIGN

LRT ALIGNMENT A
SHEET 15 OF 21

TYPICAL SECTION A-06A

SHEET NUMBER
15 OF 122



TYPICAL SECTION A-07
ALIGNMENT A - STA. 6093+50 TO STA. 6108+50

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SRF Consulting Group, Inc.

LTK Engineering Services

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BOTT-TYP A_07.dwg

DESIGNED BY:
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PROJECT NO. 160528003.4.100

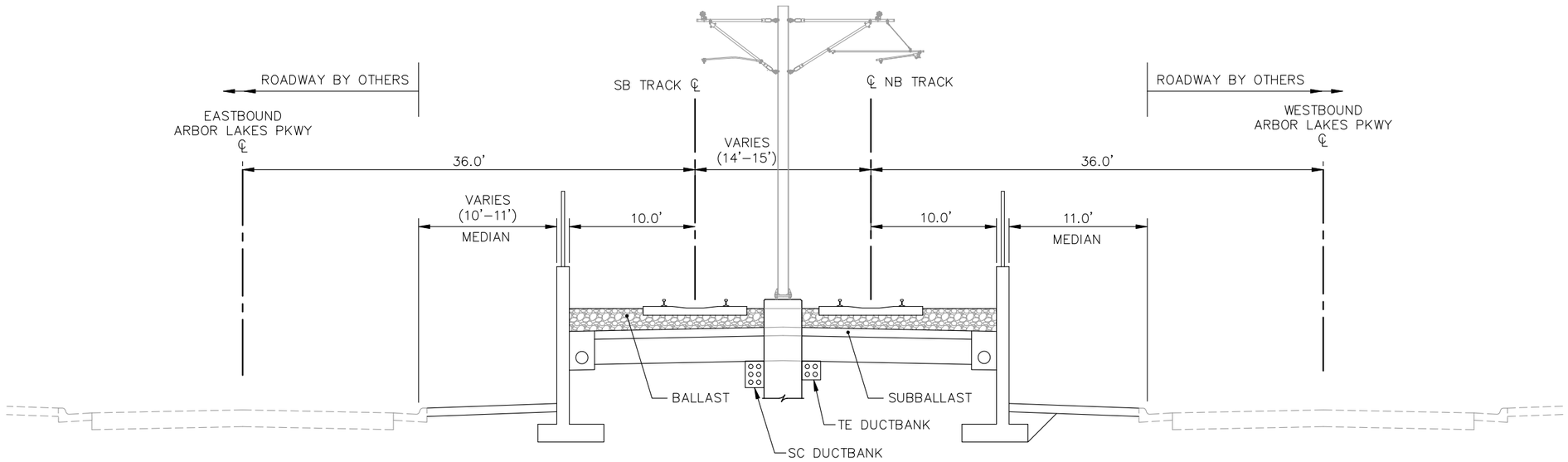
BOTTINEAU CORRIDOR
DRAFT EIS
CONCEPTUAL DESIGN

LRT ALIGNMENT A
SHEET 16 OF 21

TYPICAL SECTION A-07

SHEET NUMBER
16 OF 122

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TYPICAL SECTION A-08
ALIGNMENT A - STA. 6108+50 TO STA. 6112+00

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BottineauTransitway
DRAFT ENVIRONMENTAL IMPACT STATEMENT

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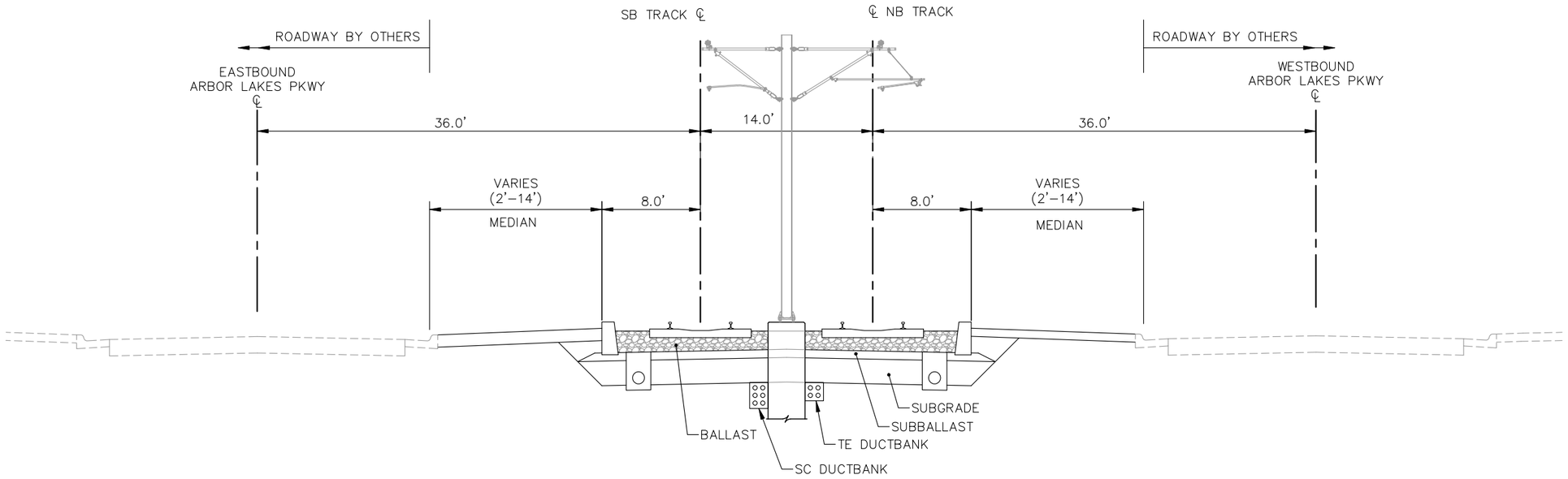
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PROJECT NO.	160528003.4.100

BOTTINEAU CORRIDOR
DRAFT EIS
CONCEPTUAL DESIGN

LRT ALIGNMENT A
SHEET 17 OF 21

TYPICAL SECTION A-08

SHEET NUMBER
17 OF 122



TYPICAL SECTION A-09
ALIGNMENT A - STA. 6112+00 TO STA. 6159+00

P:\Projects\C4147.02 – Bottineau DEIS\C3D\BOTT–TYP A_09.dwg August 24, 2012 – 9:18am

Bottineau Transitway
DRAFT ENVIRONMENTAL IMPACT STATEMENT

Hennepin

CONSULTANTS:

Kimley-Horn and Associates, Inc.
2550 UNIVERSITY AVE. WEST, SUITE 345N
ST. PAUL, MINNESOTA 55114
TEL. NO. (651) 645–4197
FAX. NO. (651) 645–5116

SRF Consulting Group, Inc.

LTK Engineering Services

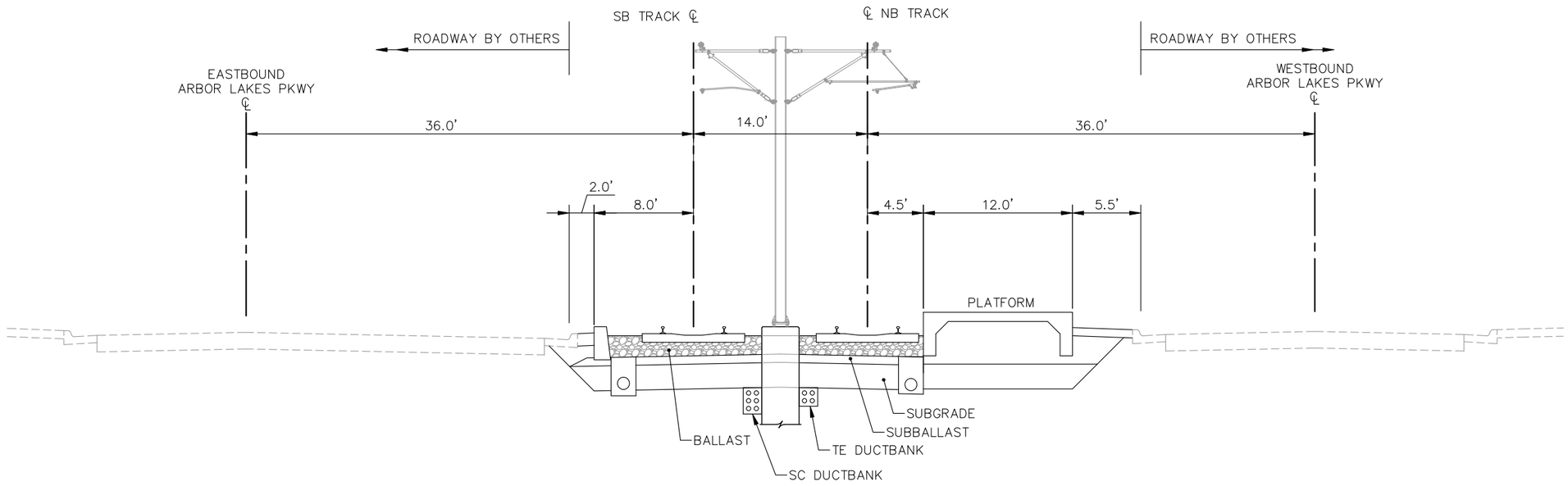
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DESIGNED BY:	
DRAWN BY:	
CHECKED BY:	
DATE:	6/29/12
PROJECT NO.	160528003.4.100

BOTTINEAU CORRIDOR
DRAFT EIS
CONCEPTUAL DESIGN

LRT ALIGNMENT A
SHEET 18 OF 21

TYPICAL SECTION A-09

SHEET NUMBER
18 OF 122



TYPICAL SECTION A-09A
ALIGNMENT A - REVERE PARKWAY STATION
(NB PLATFORM SHOWN, SB SIMMILAR)

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Bottineau Transitway
DRAFT ENVIRONMENTAL IMPACT STATEMENT

Hennepin

CONSULTANTS:

Kimley-Horn and Associates, Inc.
2550 UNIVERSITY AVE. WEST, SUITE 345N
ST. PAUL, MINNESOTA 55114
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FAX. NO. (651) 645-5116

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LTK Engineering Services

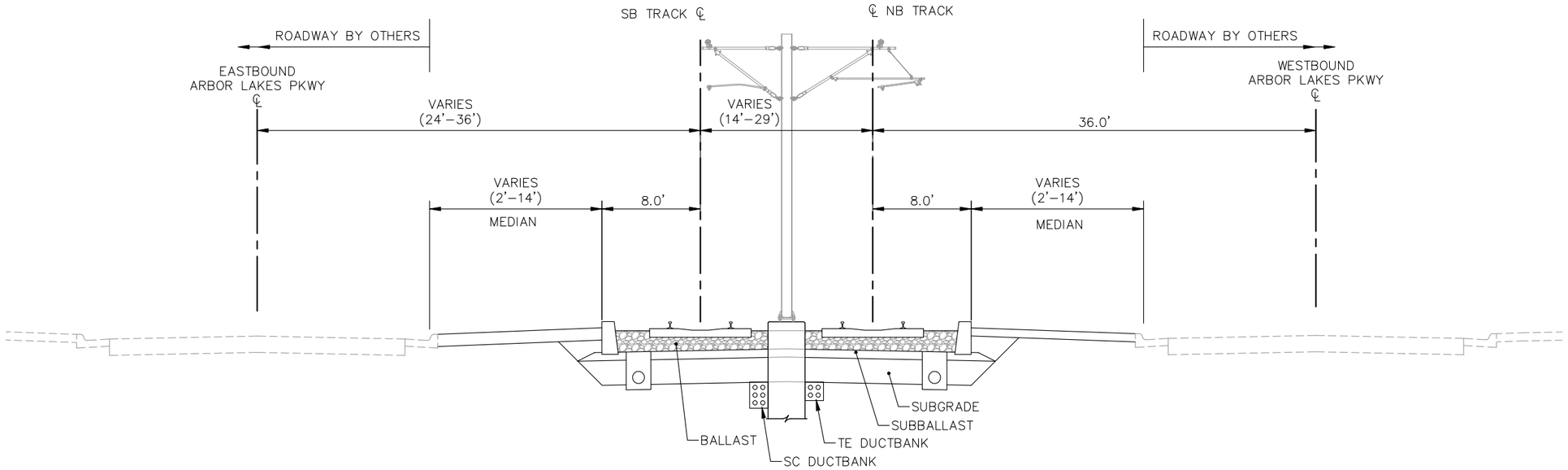
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PROJECT NO.	160528003.4.100

BOTTINEAU CORRIDOR
DRAFT EIS
CONCEPTUAL DESIGN

LRT ALIGNMENT A
SHEET 19 OF 21

TYPICAL SECTION A-09A

SHEET NUMBER
19 OF 122



TYPICAL SECTION A-10
ALIGNMENT A - STA. 6159+00 TO STA. 6174+00

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Bottineau Transitway
DRAFT ENVIRONMENTAL IMPACT STATEMENT

Hennepin

CONSULTANTS:
Kimley-Horn and Associates, Inc.
2550 UNIVERSITY AVE. WEST, SUITE 345N
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TEL. NO. (651) 645-4197
FAX. NO. (651) 645-5116

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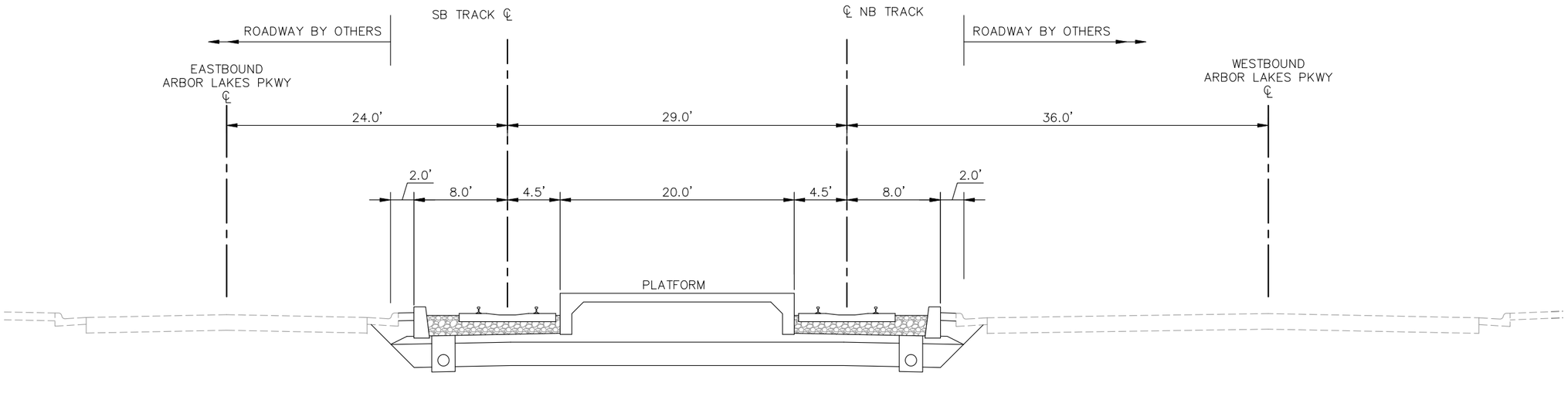
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BOTTINEAU CORRIDOR
DRAFT EIS
CONCEPTUAL DESIGN

LRT ALIGNMENT A
SHEET 20 OF 21

TYPICAL SECTION A-10

SHEET NUMBER
20 OF 122



TYPICAL SECTION A-10A
ALIGNMENT A - HEMLOCK LANE STATION

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BottineauTransitway
DRAFT ENVIRONMENTAL IMPACT STATEMENT

Hennepin

CONSULTANTS:
Kimley-Horn and Associates, Inc.
2550 UNIVERSITY AVE. WEST, SUITE 345N
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TEL. NO. (651) 645-4197
FAX. NO. (651) 645-5116

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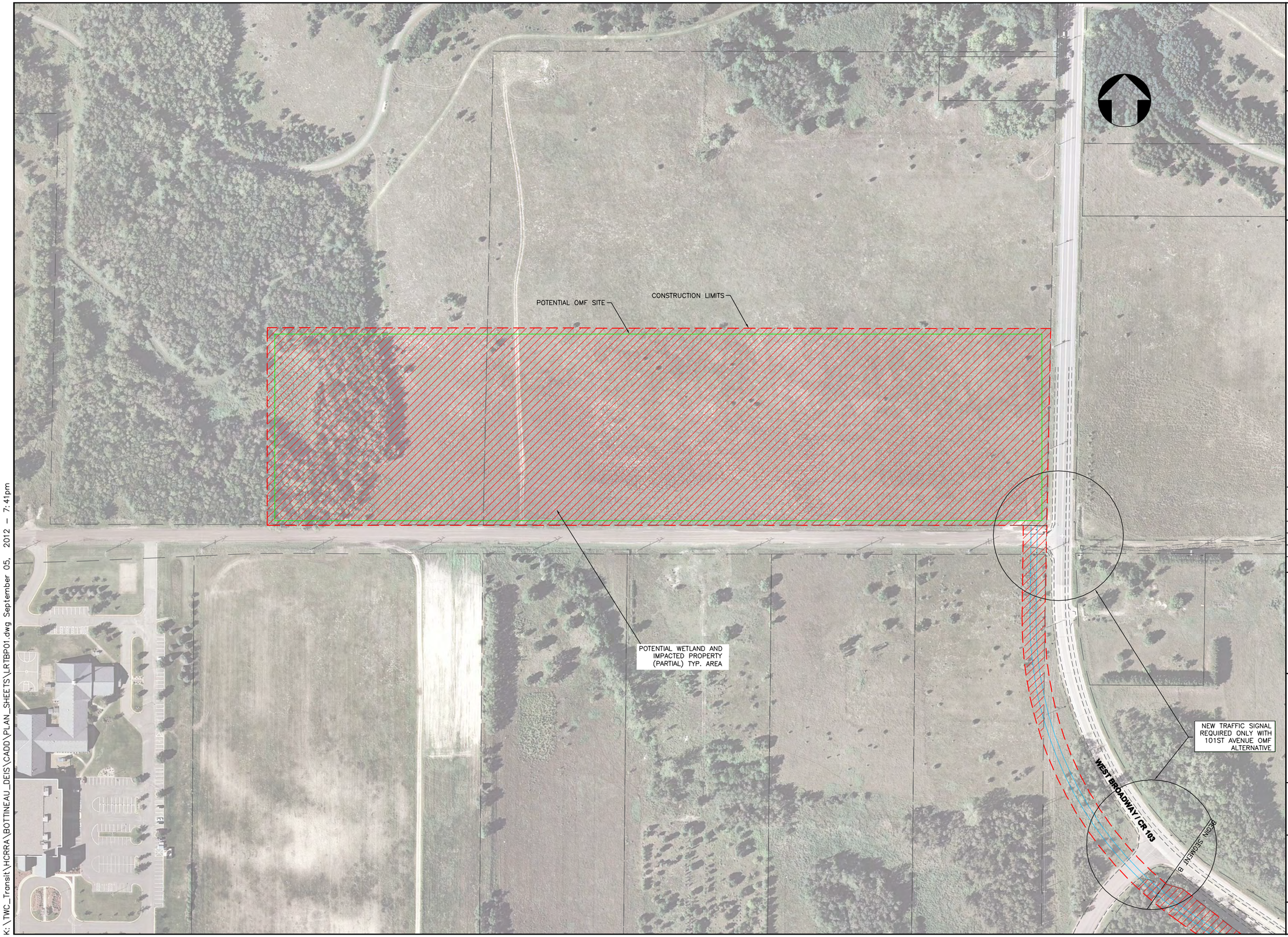
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BOTTINEAU CORRIDOR
DRAFT EIS
CONCEPTUAL DESIGN

LRT ALIGNMENT A
SHEET 21 OF 21

TYPICAL SECTION A-10A

SHEET NUMBER
21 OF 122



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Bottineau Transitway
DRAFT ENVIRONMENTAL IMPACT STATEMENT

Hennepin

CONSULTANTS:

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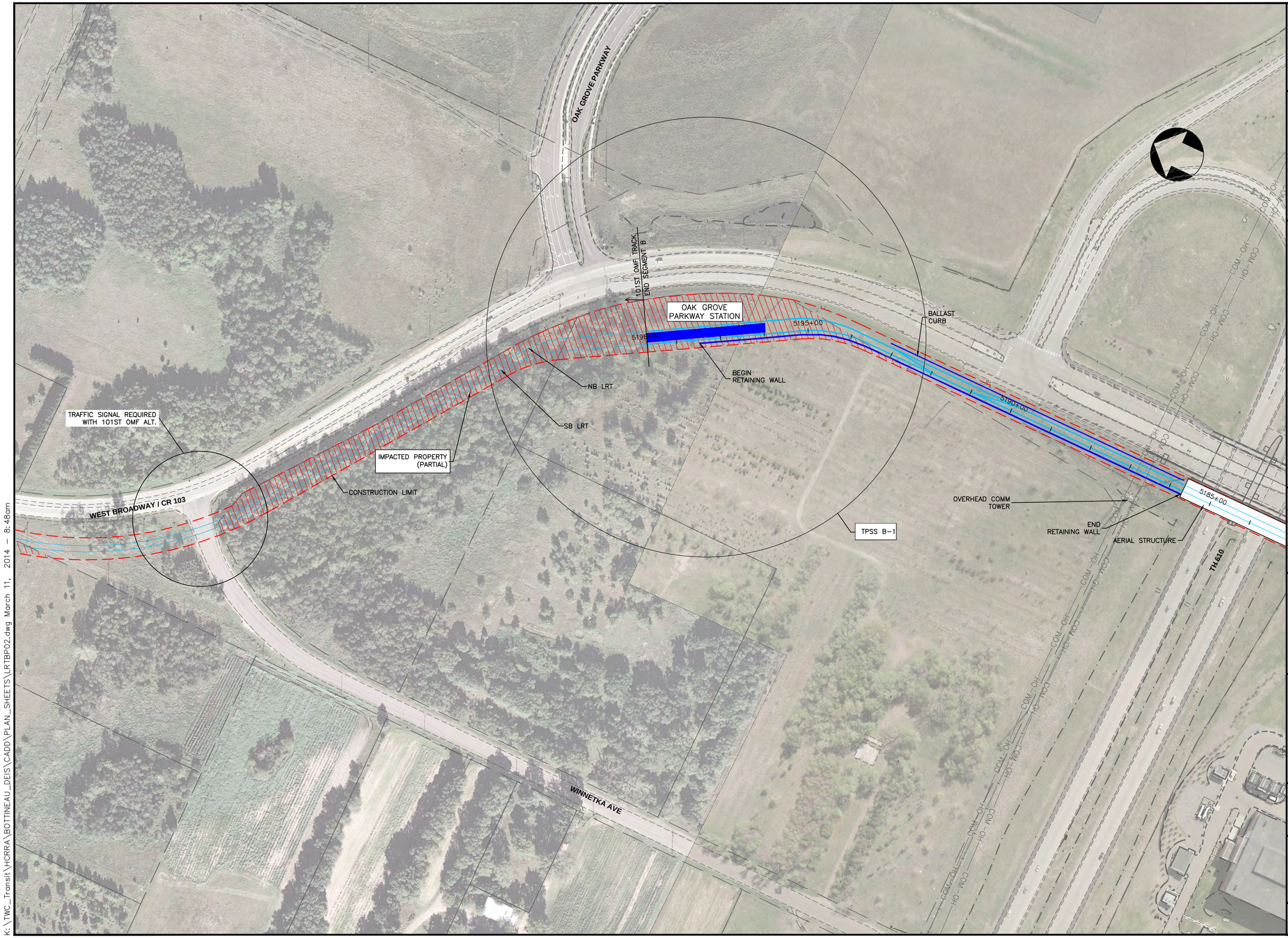
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BOTTINEAU TRANSITWAY
DRAFT EIS
CONCEPTUAL DESIGN

LRT ALIGNMENT B
SHEET 1 OF 24

ALIGNMENT PLAN

SHEET NUMBER
22 OF 122



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Bottineau Transitway
DRAFT ENVIRONMENTAL IMPACT STATEMENT

Hennepin

CONSULTANTS:

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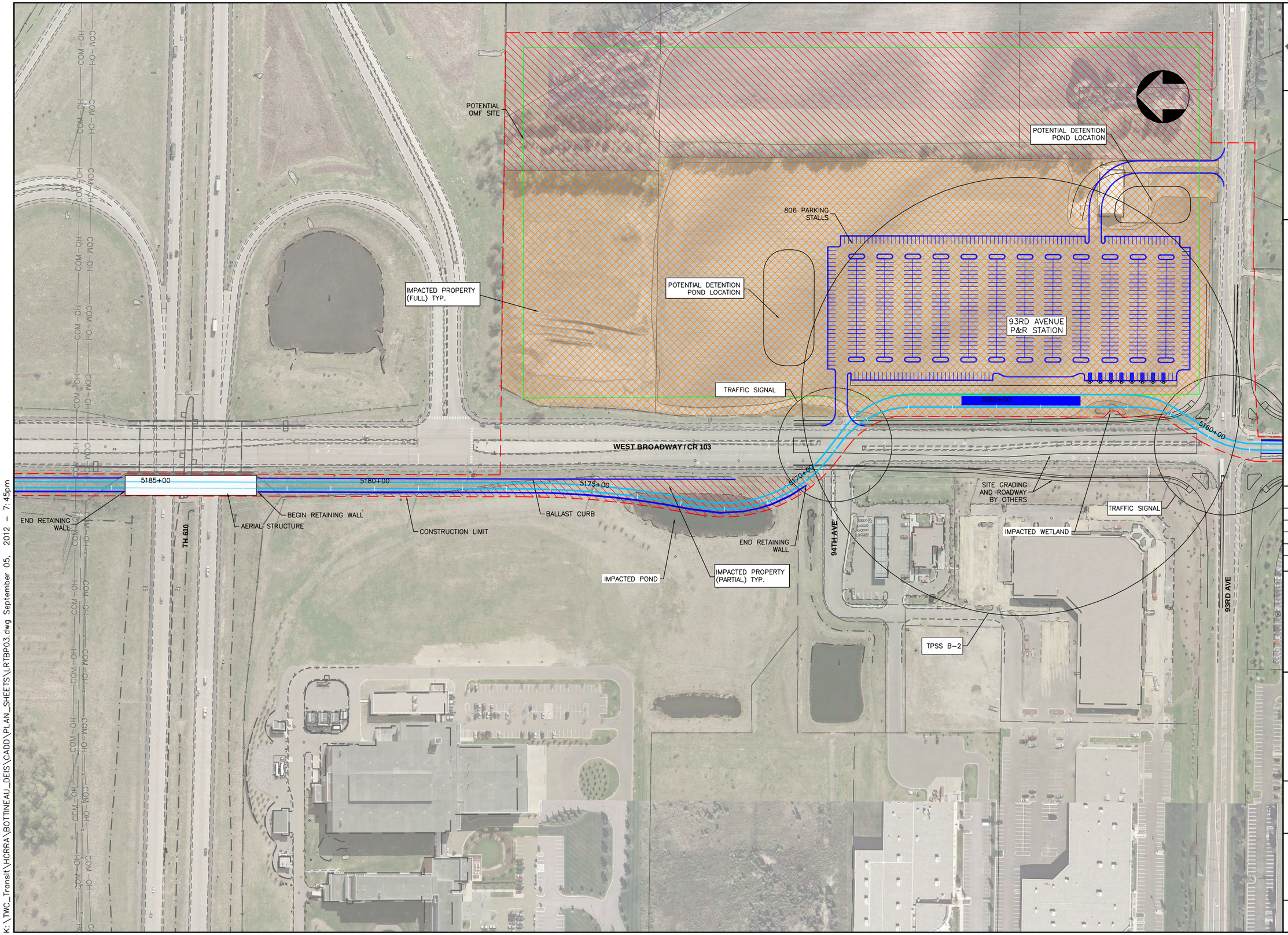
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BOTTINEAU TRANSITWAY
DRAFT EIS
CONCEPTUAL DESIGN

LRT SEGMENT B
SHEET 2 OF 24

ALIGNMENT PLAN
STA 5184+00 - 5198+00

SHEET NUMBER
23 OF 122



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Bottineau Transitway
DRAFT ENVIRONMENTAL IMPACT STATEMENT

Hennepin

CONSULTANTS:

Kimley-Horn and Associates, Inc.
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CHECKED BY:	
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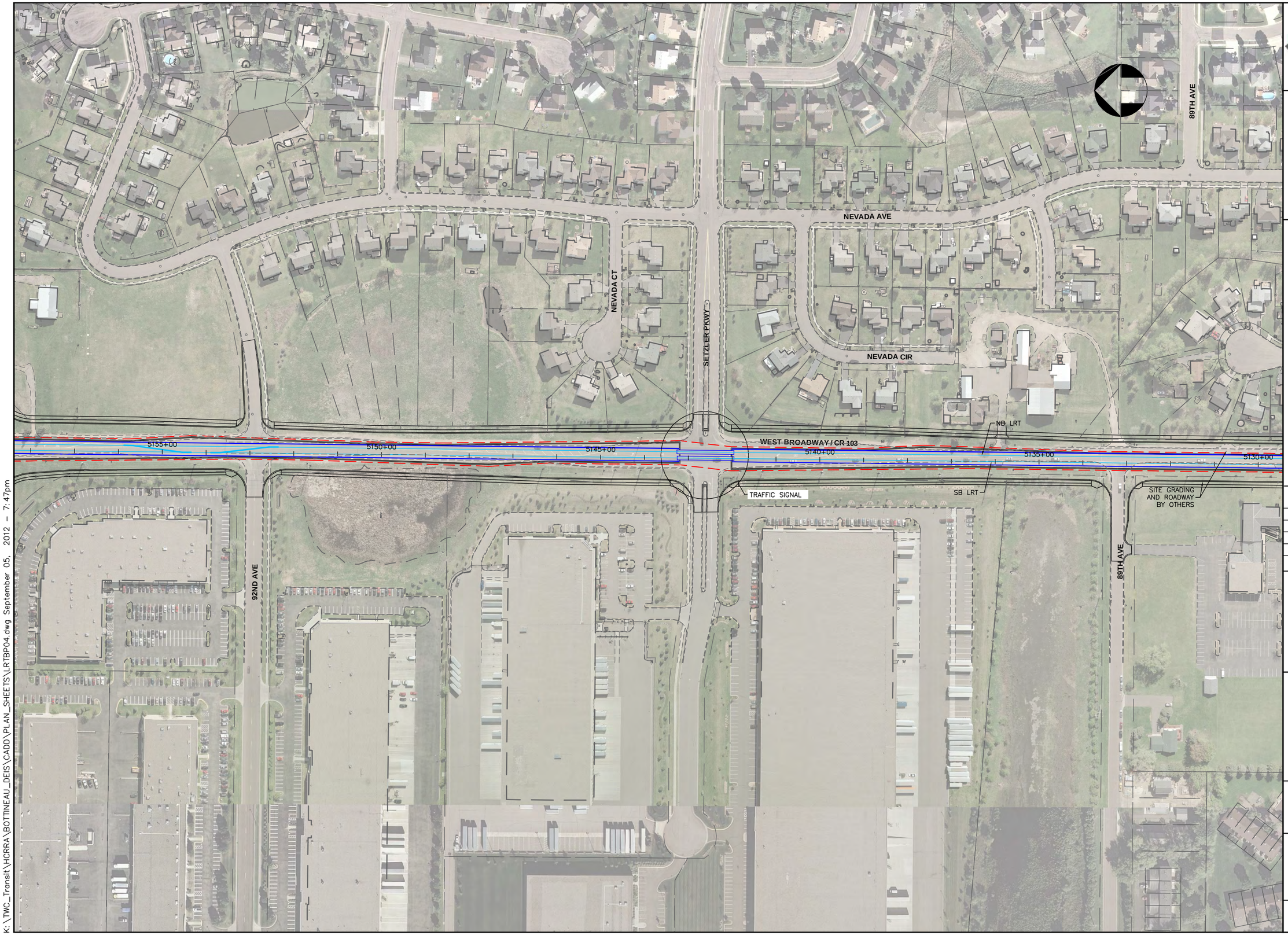
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BOTTINEAU TRANSITWAY
DRAFT EIS
CONCEPTUAL DESIGN

LRT ALIGNMENT B
SHEET 3 OF 24

ALIGNMENT PLAN
STA 5159+00 - 5188+00

SHEET NUMBER
24 OF 122



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Bottineau Transitway
DRAFT ENVIRONMENTAL IMPACT STATEMENT

Hennepin

CONSULTANTS:

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FAX. NO. (651) 645-5116

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PROJECT NO.	160528003.4.100

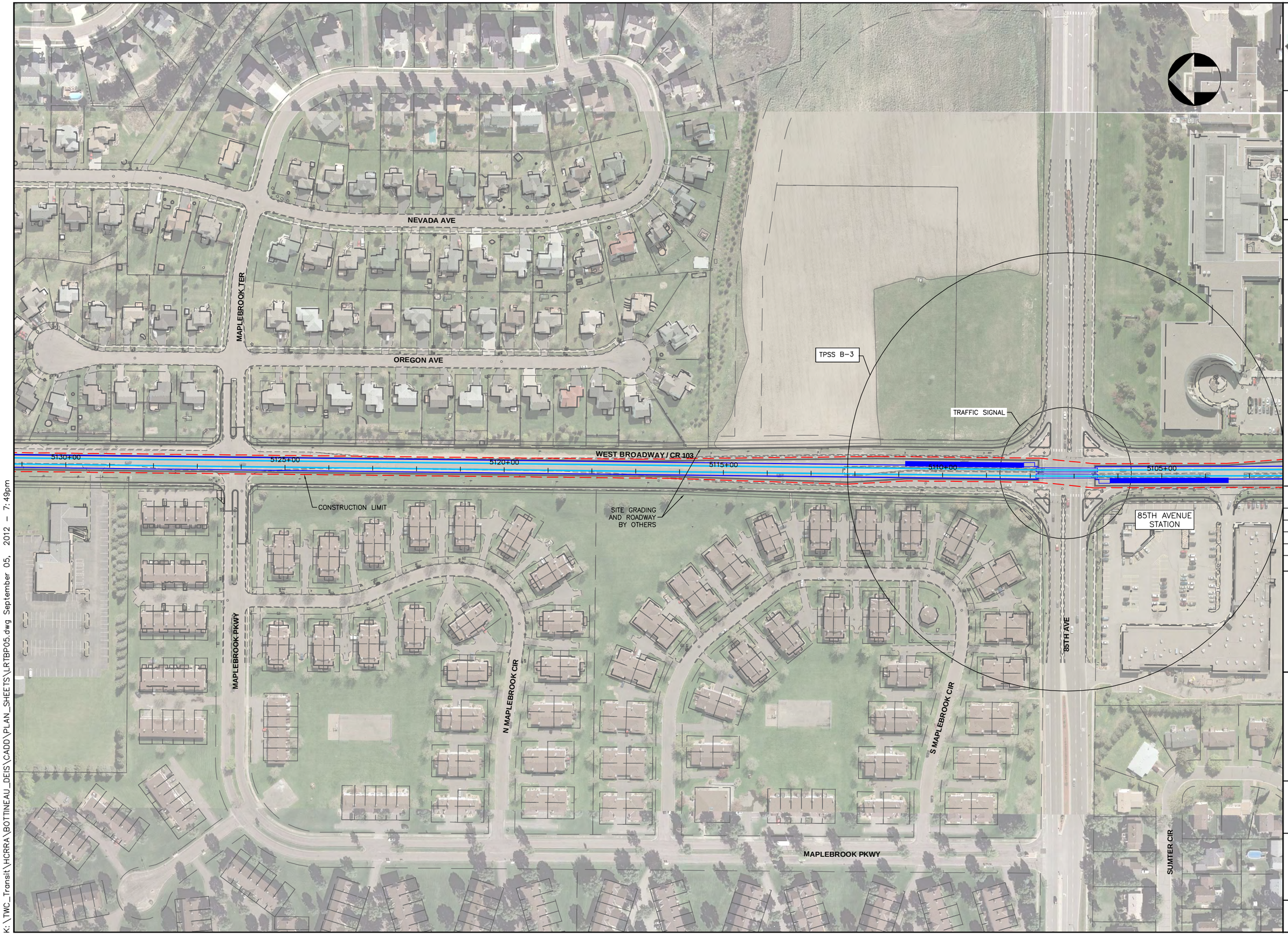
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BOTTINEAU TRANSITWAY
DRAFT EIS
CONCEPTUAL DESIGN

LRT ALIGNMENT B
SHEET 4 OF 24

ALIGNMENT PLAN
STA 5130+00 - 5158+00

SHEET NUMBER
25 OF 122



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Bottineau Transitway
DRAFT ENVIRONMENTAL IMPACT STATEMENT

Hennepin

CONSULTANTS:

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FAX. NO. (651) 645-5116

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PROJECT NO.	160528003.4.100

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BOTTINEAU TRANSITWAY
DRAFT EIS
CONCEPTUAL DESIGN

LRT ALIGNMENT B
SHEET 5 OF 24

ALIGNMENT PLAN
STA 5103+00 - 5131+00

SHEET NUMBER
26 OF 122



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Bottineau Transitway
DRAFT ENVIRONMENTAL IMPACT STATEMENT

Hennepin

CONSULTANTS:

Kimley-Horn and Associates, Inc.
2550 UNIVERSITY AVE. WEST, SUITE 345N
ST. PAUL, MINNESOTA 55114
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SRF Consulting Group, Inc.

LTK Engineering Services

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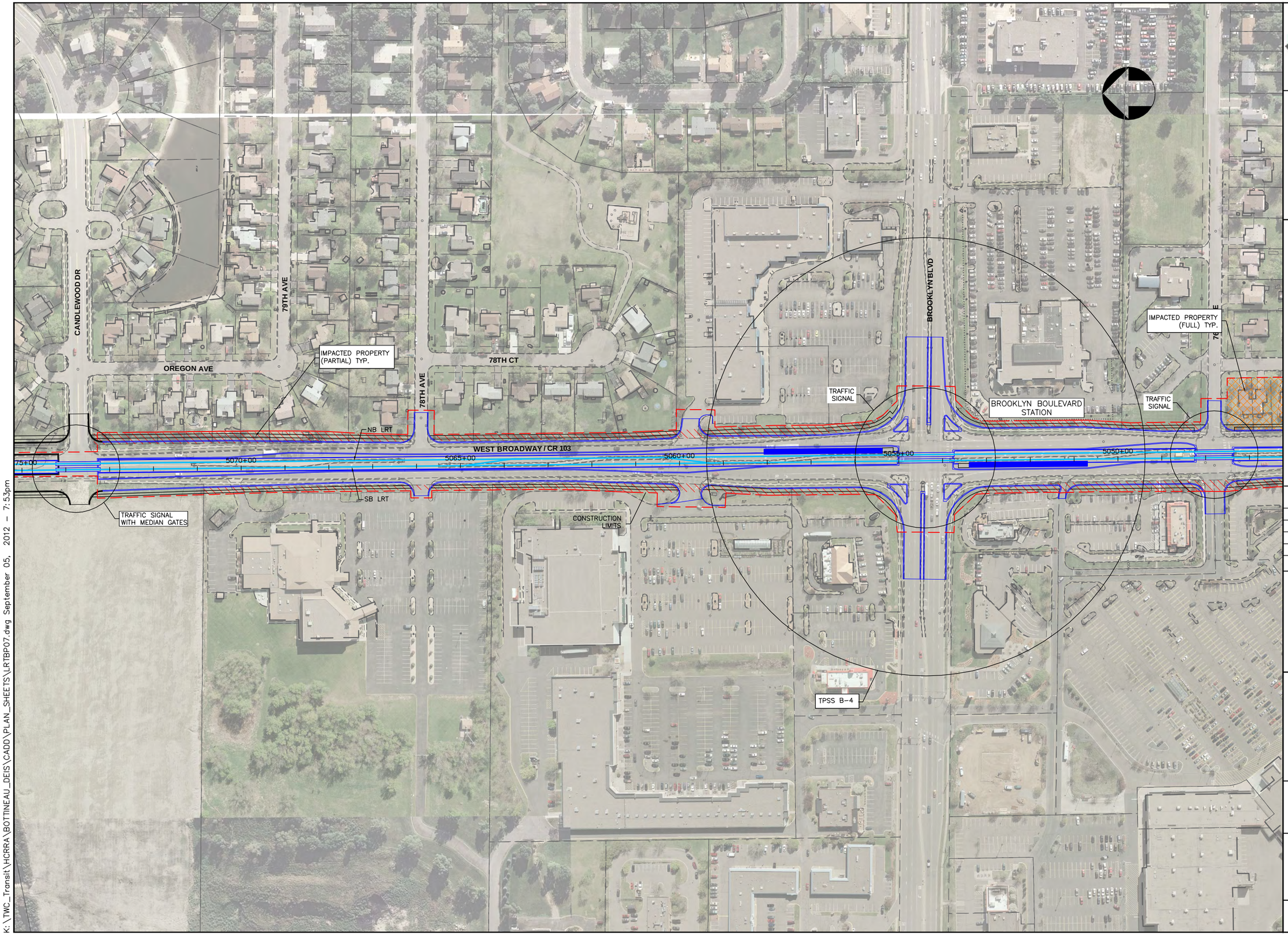
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BOTTINEAU TRANSITWAY
DRAFT EIS
CONCEPTUAL DESIGN

LRT ALIGNMENT B
PAGE 6 OF 24

ALIGNMENT PLAN
STA 5075+00 - 5103+00

SHEET NUMBER
27 OF 122



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Bottineau Transitway
DRAFT ENVIRONMENTAL IMPACT STATEMENT

Hennepin

CONSULTANTS:

Kimley-Horn and Associates, Inc.
2550 UNIVERSITY AVE. WEST, SUITE 345N
ST. PAUL, MINNESOTA 55114
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LTK Engineering Services

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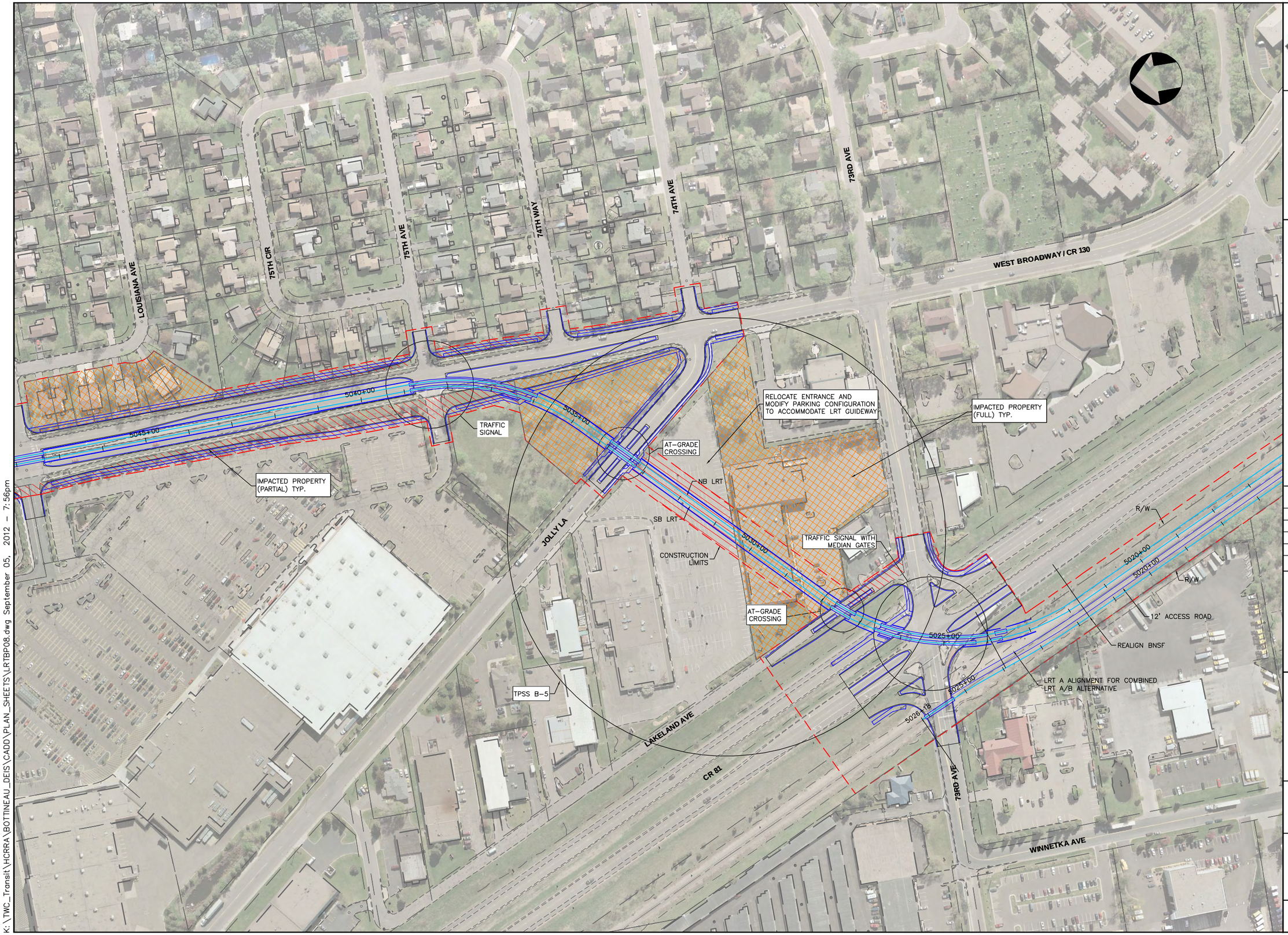
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BOTTINEAU TRANSITWAY
DRAFT EIS
CONCEPTUAL DESIGN

LRT ALIGNMENT B
SHEET 7 OF 24

ALIGNMENT PLAN
STA 5047+00 - 5075+00

SHEET NUMBER
28 OF 122



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Bottineau Transitway
DRAFT ENVIRONMENTAL IMPACT STATEMENT

Hennepin

CONSULTANTS:

Kimley-Horn and Associates, Inc.
2550 UNIVERSITY AVE. WEST, SUITE 345N
ST. PAUL, MINNESOTA 55114
TEL. NO. (651) 645-4197
FAX. NO. (651) 645-5116

SRF Consulting Group, Inc.

LTK Engineering Services

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PROJECT NO.	160528003.4.100

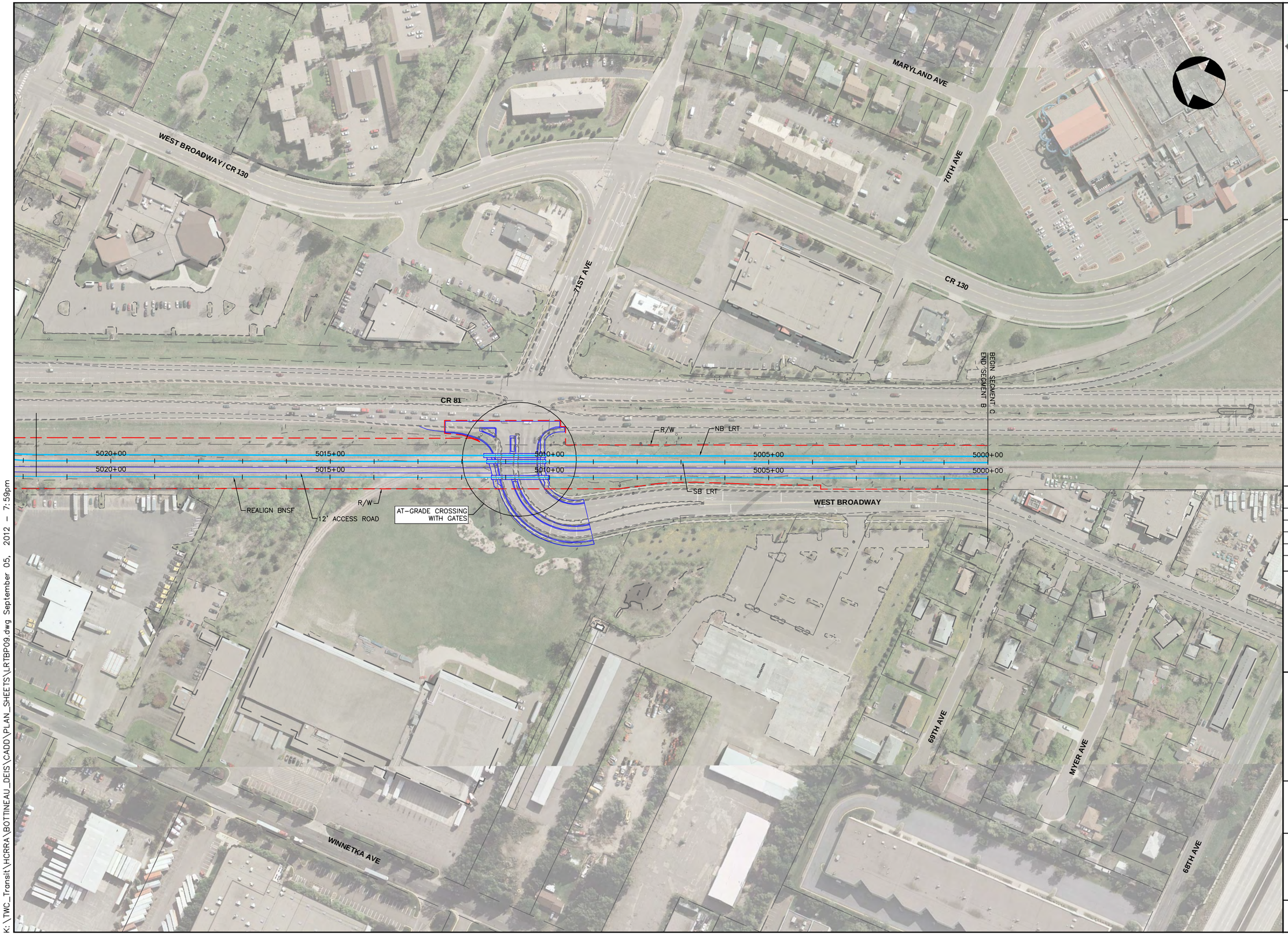
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BOTTINEAU TRANSITWAY
DRAFT EIS
CONCEPTUAL DESIGN

LRT ALIGNMENT B
SHEET 8 OF 24

ALIGNMENT PLAN
STA 5017+00 - 5047+00

SHEET NUMBER
29 OF 122



K:\TWC_Transit\HCRRA\BOTTINEAU_DEIS\CADD\PLAN_SHEETS\LRTBP09.dwg September 05, 2012 - 7:59pm

Bottineau Transitway
DRAFT ENVIRONMENTAL IMPACT STATEMENT

Hennepin

CONSULTANTS:

Kimley-Horn and Associates, Inc.
2550 UNIVERSITY AVE. WEST, SUITE 345N
ST. PAUL, MINNESOTA 55114
TEL. NO. (651) 645-4197
FAX. NO. (651) 645-5116

SRF Consulting Group, Inc.

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PROJECT NO.	160528003.4.100

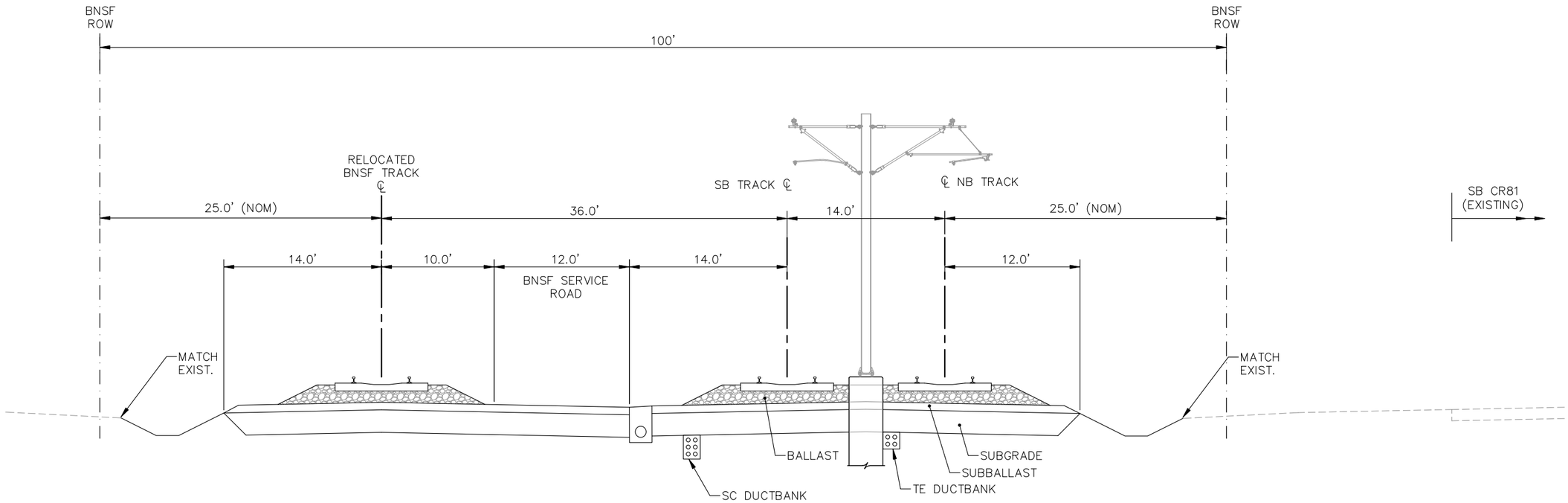
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BOTTINEAU TRANSITWAY
DRAFT EIS
CONCEPTUAL DESIGN

LRT ALIGNMENT B
SHEET 9 OF 24

ALIGNMENT PLAN
STA 5000+00 - 5022+00

SHEET NUMBER
30 OF 122



SB CR81 (EXISTING) →

TYPICAL SECTION B-01
ALIGNMENT B - STA. 5000+00 TO STA. 5023+00

NOTE: STATIONING REPRESENTS THE SB LRT TRACK

BottineauTransitway
DRAFT ENVIRONMENTAL IMPACT STATEMENT

Hennepin

CONSULTANTS:

Kimley-Horn and Associates, Inc.
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FAX. NO. (651) 645-5116

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DATE:	6/29/12
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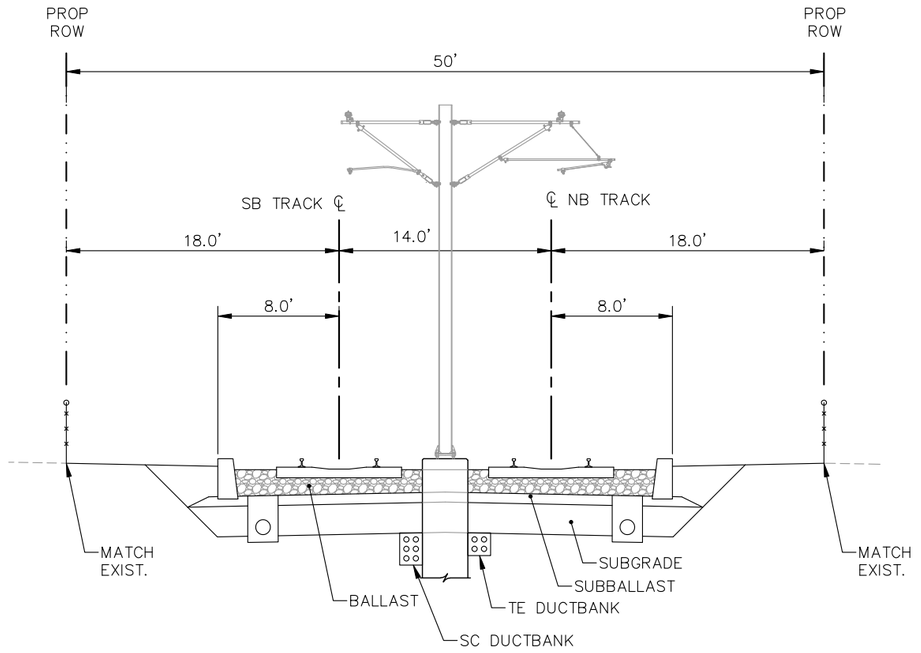
BOTTINEAU CORRIDOR
DRAFT EIS
CONCEPTUAL DESIGN

LRT ALIGNMENT B
SHEET 10 OF 24

TYPICAL SECTION B-01

SHEET NUMBER
31 OF 122

P:\Projects\C4147.02 - Bottineau DEIS\C3D\BOTT-TYP B_01.dwg August 24, 2012 - 9:21am



TYPICAL SECTION B-02
ALIGNMENT B - STA. 5023+00 TO STA. 5038+00

NOTE: STATIONING REPRESENTS THE SB LRT TRACK

CONSULTANTS:

Kimley-Horn and Associates, Inc.
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PROJECT NO. 160528003.4.100

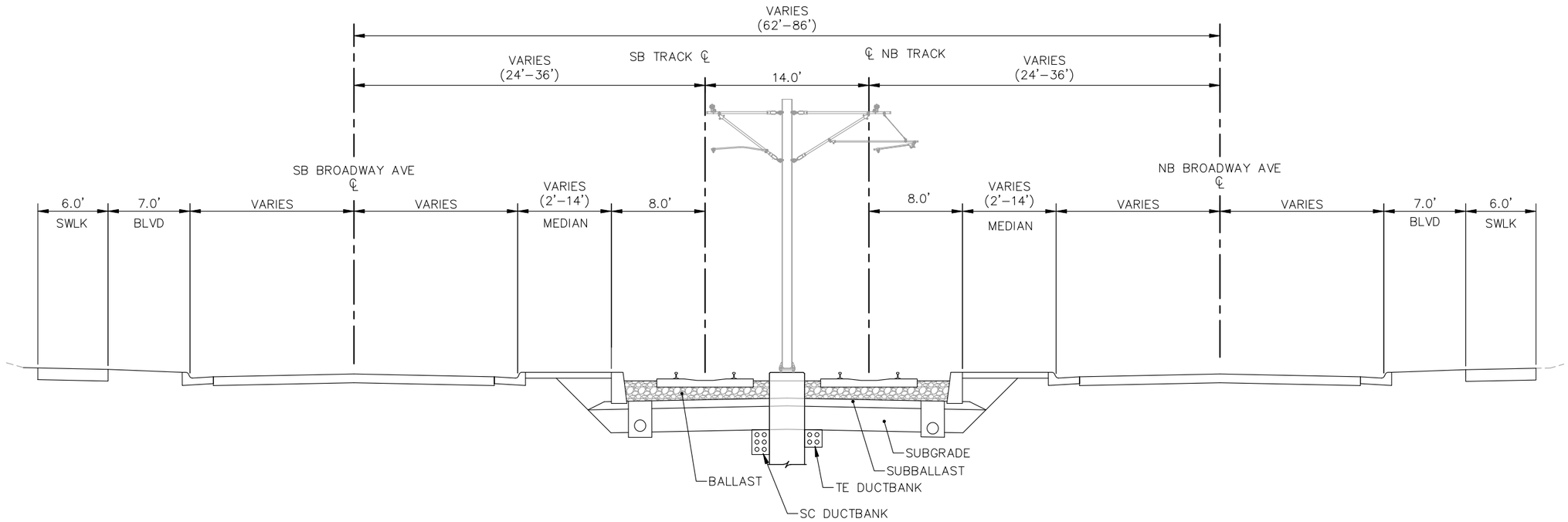
BOTTINEAU CORRIDOR
DRAFT EIS
CONCEPTUAL DESIGN

LRT ALIGNMENT B
SHEET 11 OF 24

TYPICAL SECTION B-02

SHEET NUMBER
32 OF 122

P:\Projects\C4147.02 - Bottineau DEIS\C3D\BOTT-TYP B_02.dwg August 24, 2012 - 9:21am



TYPICAL SECTION B-03
ALIGNMENT B - STA. 5038+00 TO STA. 5066+00

NOTE: STATIONING REPRESENTS THE SB LRT TRACK

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Bottineau Transitway
DRAFT ENVIRONMENTAL IMPACT STATEMENT

Hennepin

CONSULTANTS:
Kimley-Horn and Associates, Inc.
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TEL. NO. (651) 645–4197
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SRF Consulting Group, Inc.

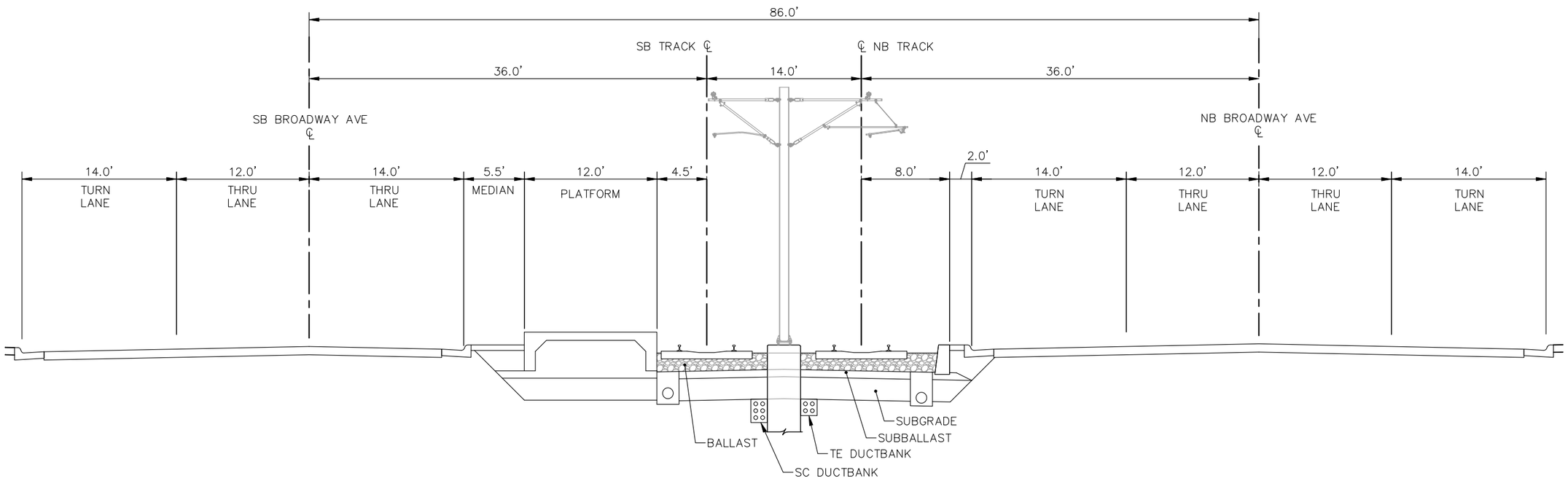
LTK Engineering Services

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DATE:	6/29/12
PROJECT NO.	160528003.4.100

BOTTINEAU CORRIDOR
DRAFT EIS
CONCEPTUAL DESIGN

LRT ALIGNMENT B
SHEET 12 OF 24

TYPICAL SECTION B-03



TYPICAL SECTION B-03A
ALIGNMENT B - BROOKLYN BLVD STATION
(SB PLATFORM SHOWN, NB SIMILAR)

NOTE: STATIONING REPRESENTS THE SB LRT TRACK

P:\Projects\C4147.02 - Bottineau DEIS\C3D\BOTT-TYP B_03A.dwg August 24, 2012 - 9:21am

Bottineau Transitway
DRAFT ENVIRONMENTAL IMPACT STATEMENT

Hennepin

CONSULTANTS:

Kimley-Horn and Associates, Inc.
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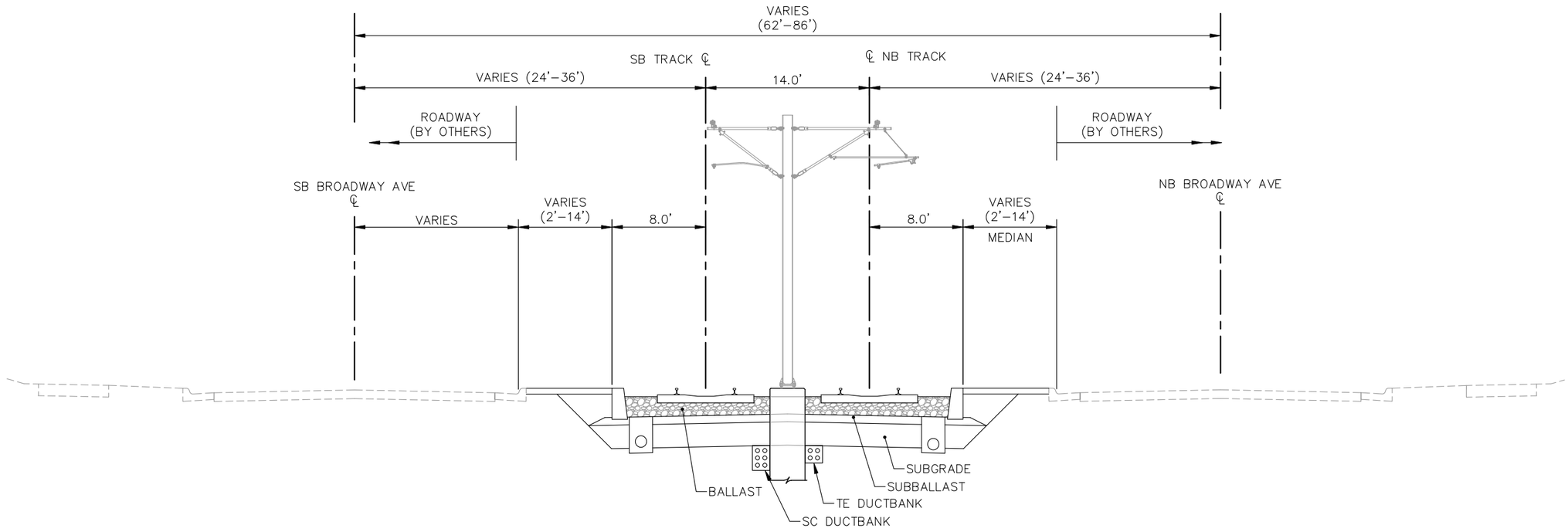
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DATE:	6/29/12
PROJECT NO.	160528003.4.100

BOTTINEAU CORRIDOR
DRAFT EIS
CONCEPTUAL DESIGN

LRT ALIGNMENT B
SHEET 13 OF 24

TYPICAL SECTION B-03A

SHEET NUMBER
34 OF 122



TYPICAL SECTION B-04
ALIGNMENT B - STA. 5066+00 TO STA. 5159+00

NOTE: STATIONING REPRESENTS THE SB LRT TRACK

CONSULTANTS:

Kimley-Horn and Associates, Inc.
2550 UNIVERSITY AVE. WEST, SUITE 345N
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FAX. NO. (651) 645-5116

SRF Consulting Group, Inc.

LTK Engineering Services

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BOTT-TYP B_04.dwg
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DRAWN BY:
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DATE: 6/29/12
PROJECT NO. 160528003.4.100

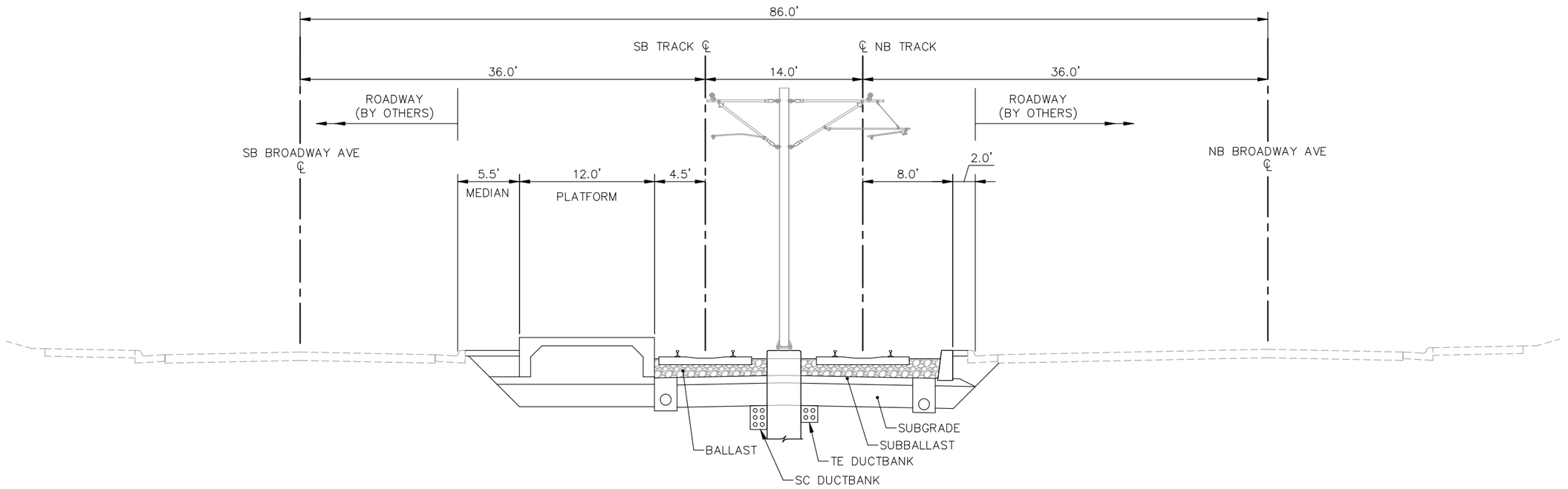
BOTTINEAU CORRIDOR
DRAFT EIS
CONCEPTUAL DESIGN

LRT ALIGNMENT B
SHEET 14 OF 24

TYPICAL SECTION B-04

SHEET NUMBER
35 OF 122

P:\Projects\C4147.02 - Bottineau DEIS\C3D\BOTT-TYP B_04.dwg August 24, 2012 - 9:22am



TYPICAL SECTION B-04A
ALIGNMENT B - 85TH AVENUE STATION
(SB PLATFORM SHOWN, NB SIMILAR)

NOTE: STATIONING REPRESENTS THE SB LRT TRACK

P:\Projects\C4147.02 - Bottineau DEIS\C3D\BOTT-TYP B_04A.dwg August 24, 2012 - 9:22am

BottineauTransitway
DRAFT ENVIRONMENTAL IMPACT STATEMENT

Hennepin

CONSULTANTS:

Kimley-Horn and Associates, Inc.
2550 UNIVERSITY AVE. WEST, SUITE 345N
ST. PAUL, MINNESOTA 55114
TEL. NO. (651) 645-4197
FAX. NO. (651) 645-5116

SRF Consulting Group, Inc.

LTK Engineering Services

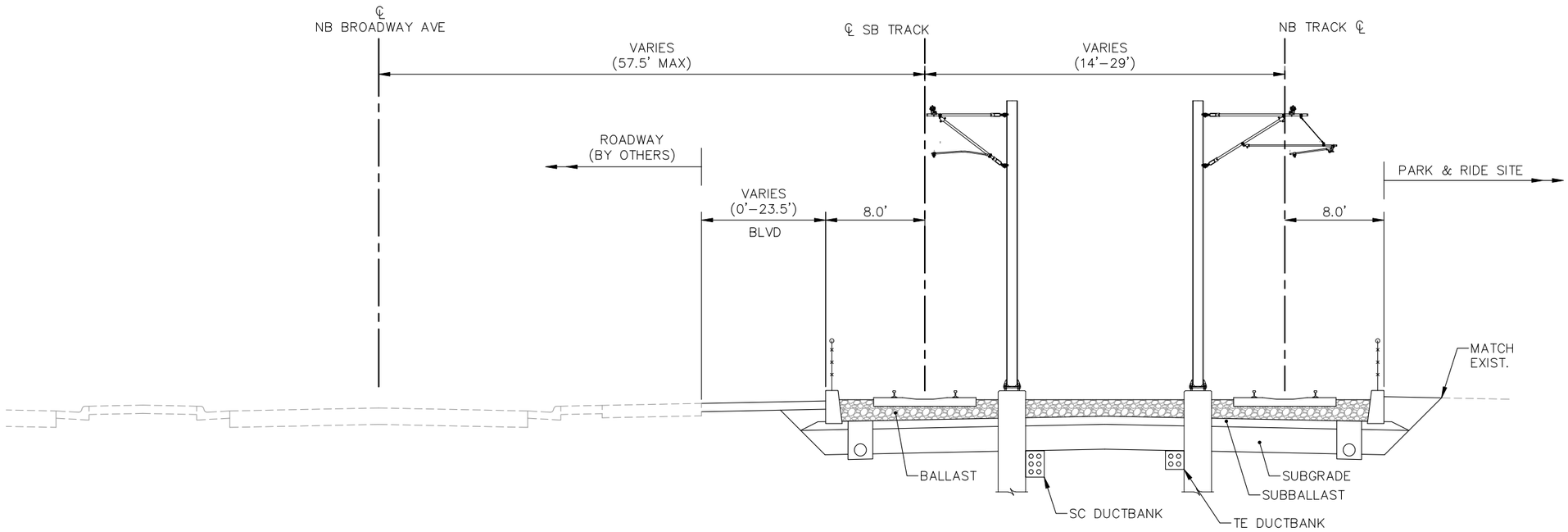
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DATE:	6/29/12
PROJECT NO.	160528003.4.100

BOTTINEAU CORRIDOR
DRAFT EIS
CONCEPTUAL DESIGN

LRT ALIGNMENT B
SHEET 15 OF 24

TYPICAL SECTION B-04A

SHEET NUMBER
36 OF 122



TYPICAL SECTION B-05
ALIGNMENT B - STA. 5159+00 TO 5169+00

NOTE: STATIONING REPRESENTS THE SB LRT TRACK

P:\Projects\C4147.02 – Bottineau DEIS\C3D\BOTT–TYP B_05.dwg August 24, 2012 – 9:22am

Bottineau Transitway
DRAFT ENVIRONMENTAL IMPACT STATEMENT

Hennepin

CONSULTANTS:

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LTK Engineering Services

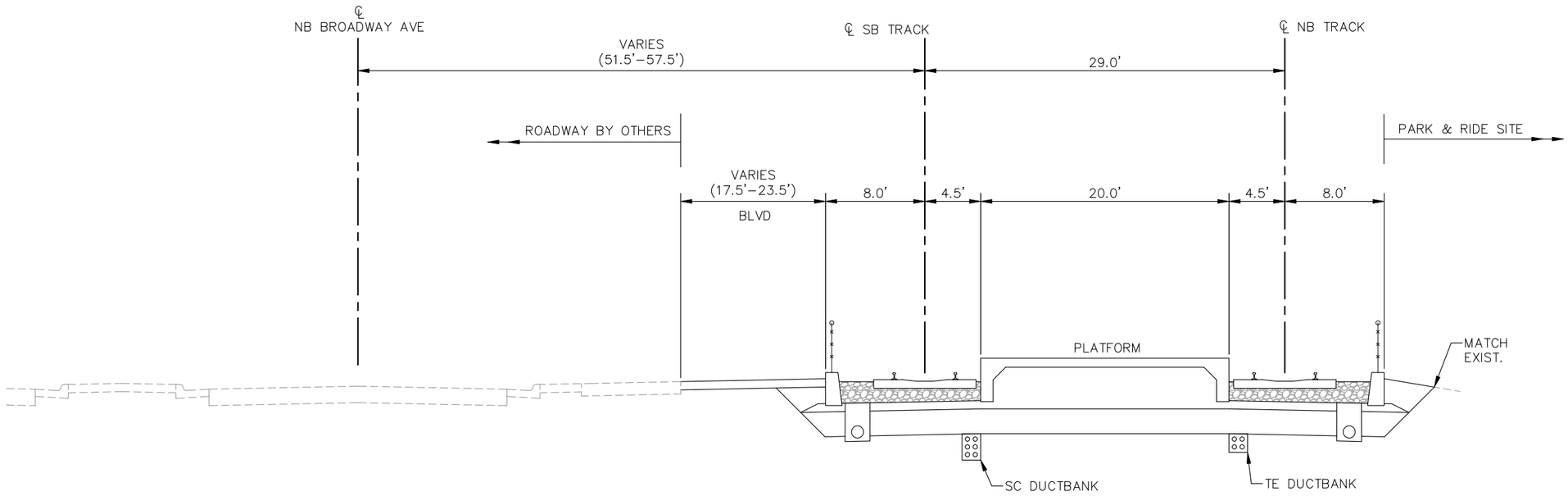
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DATE:	6/29/12
PROJECT NO.	160528003.4.100

BOTTINEAU CORRIDOR
DRAFT EIS
CONCEPTUAL DESIGN

LRT ALIGNMENT B
SHEET 16 OF 24

TYPICAL SECTION B-05

SHEET NUMBER
37 OF 122



TYPICAL SECTION B-05A
ALIGNMENT B - 93RD AVENUE STATION

NOTE: STATIONING REPRESENTS THE SB LRT TRACK

P:\Projects\C4147.02 – Bottineau DEIS\C3D\BOTT–TYP B_05A.dwg August 24, 2012 – 9:22am

BottineauTransitway
DRAFT ENVIRONMENTAL IMPACT STATEMENT

Hennepin

CONSULTANTS:

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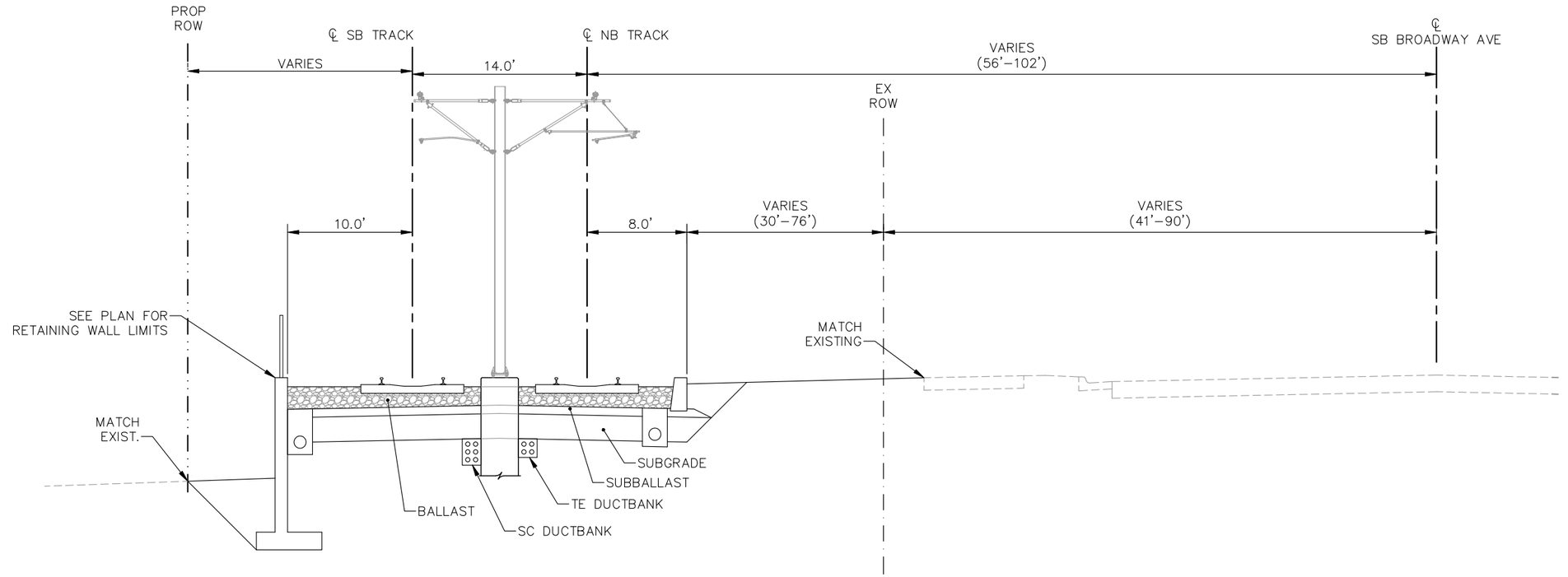
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PROJECT NO.	160528003.4.100

BOTTINEAU CORRIDOR
DRAFT EIS
CONCEPTUAL DESIGN

LRT ALIGNMENT B
SHEET 17 OF 24

TYPICAL SECTION B-05A



TYPICAL SECTION B-06
ALIGNMENT B - STA. 5169+00 TO STA. 5193+00

NOTE: STATIONING REPRESENTS THE SB LRT TRACK

P:\Projects\C4147.02 – Bottineau DEIS\C3D\BOTT–TYP B_06.dwg August 24, 2012 – 9:22am

BottineauTransitway
DRAFT ENVIRONMENTAL IMPACT STATEMENT

Hennepin

CONSULTANTS:

Kimley-Horn and Associates, Inc.
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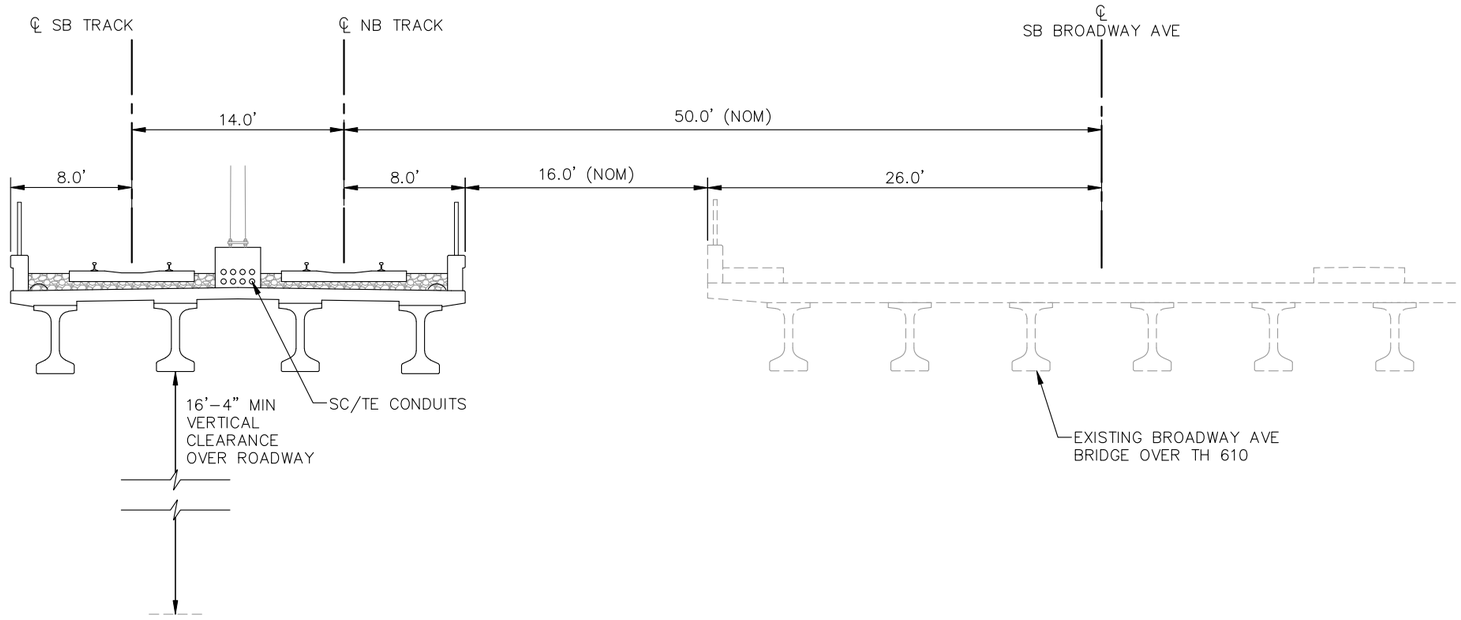
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PROJECT NO.	160528003.4.100

BOTTINEAU CORRIDOR
DRAFT EIS
CONCEPTUAL DESIGN

LRT ALIGNMENT B
SHEET 18 OF 24

TYPICAL SECTION B-06

SHEET NUMBER
39 OF 122



TYPICAL SECTION 06A
ALIGNMENT B - TH610 BRIDGE

NOTE: STATIONING REPRESENTS THE SB LRT TRACK

P:\Projects\C4147.02 – Bottineau DEIS\C3D\BOTT–TYP B_06A.dwg August 24, 2012 – 9:22am

Bottineau Transitway
DRAFT ENVIRONMENTAL IMPACT STATEMENT

Hennepin

CONSULTANTS:

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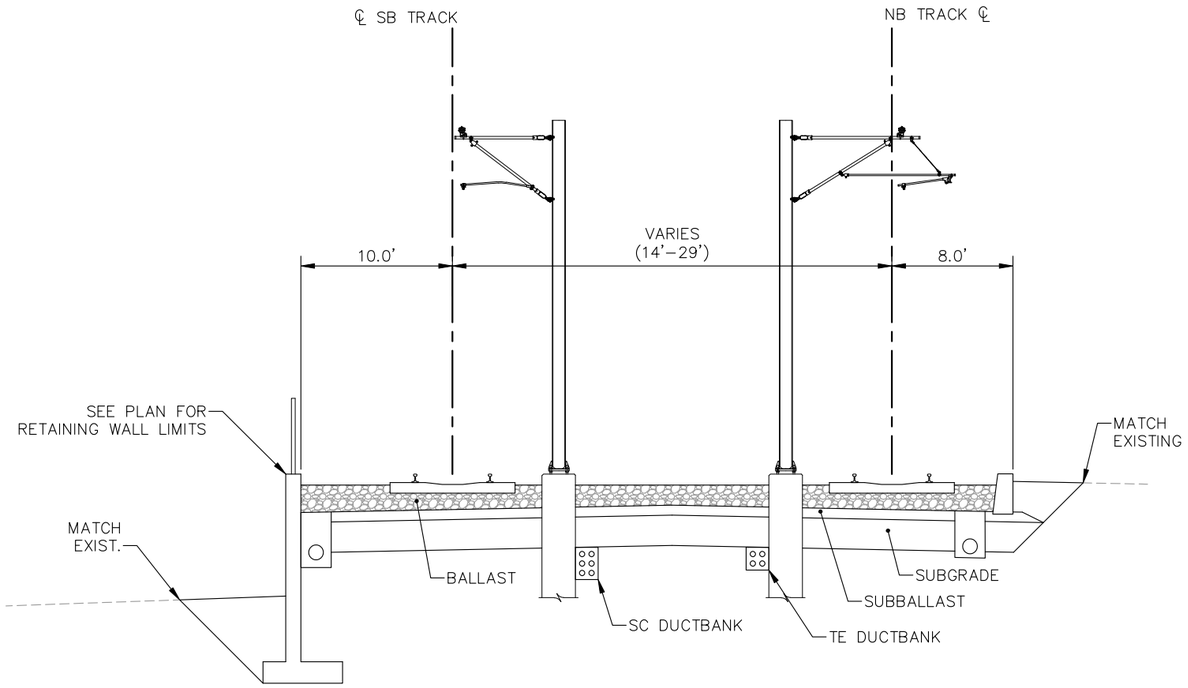
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DATE:	6/29/12
PROJECT NO.	160528003.4.100

BOTTINEAU CORRIDOR
DRAFT EIS
CONCEPTUAL DESIGN

LRT ALIGNMENT B
SHEET 19 OF 24

TYPICAL SECTION B-06A



TYPICAL SECTION B-07
ALIGNMENT B - STA. 5193+00 TO 5198+67

NOTE: STATIONING REPRESENTS THE SB LRT TRACK

P:\Projects\C4147.02 – Bottineau DEIS\C3D\BOTT–TYP B_07.dwg August 24, 2012 – 9:23am

Bottineau Transitway
DRAFT ENVIRONMENTAL IMPACT STATEMENT

Hennepin

CONSULTANTS:

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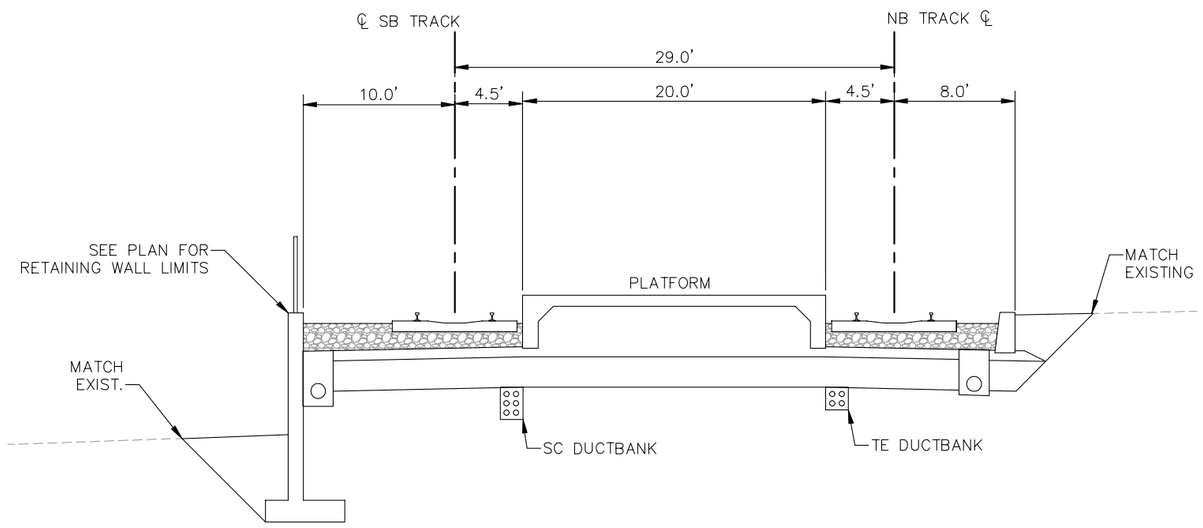
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DATE:	6/29/12
PROJECT NO.	160528003.4.100

BOTTINEAU CORRIDOR
DRAFT EIS
CONCEPTUAL DESIGN

LRT ALIGNMENT B
SHEET 20 OF 24

TYPICAL SECTION B-07



TYPICAL SECTION B-07A
ALIGNMENT B - OAK GROVE PARKWAY STATION

NOTE: STATIONING REPRESENTS THE SB LRT TRACK

P:\Projects\C4147.02 - Bottineau DEIS\C3D\BOTT-TYP B_07A.dwg August 24, 2012 - 9:23am

Bottineau Transitway
DRAFT ENVIRONMENTAL IMPACT STATEMENT

Hennepin

CONSULTANTS:

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SRF Consulting Group, Inc.

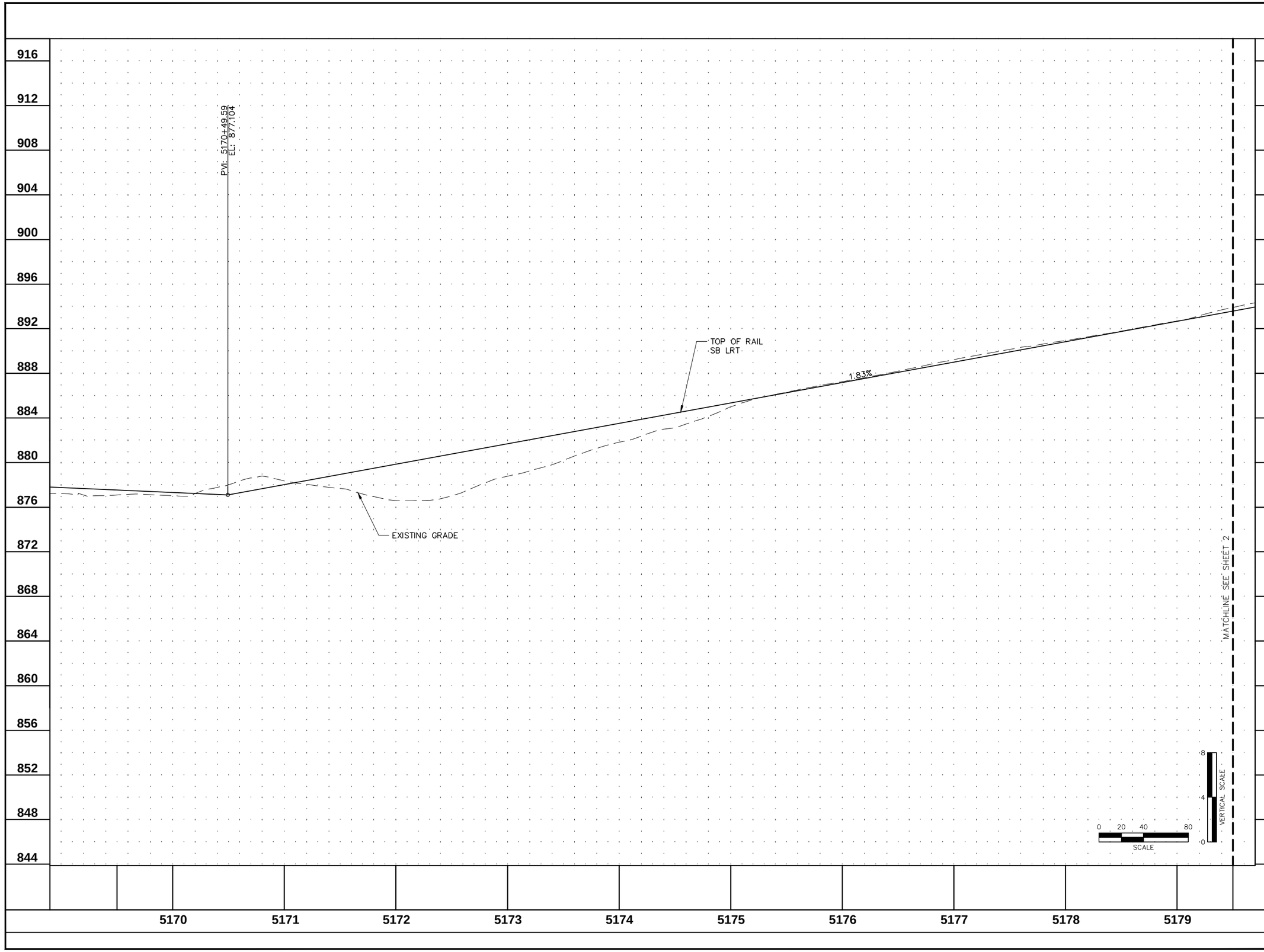
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PROJECT NO.	160528003.4.100

BOTTINEAU CORRIDOR
DRAFT EIS
CONCEPTUAL DESIGN

LRT ALIGNMENT B
SHEET 21 OF 24

TYPICAL SECTION B-07A



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Bottineau Transitway
DRAFT ENVIRONMENTAL IMPACT STATEMENT

Hennepin

CONSULTANTS:

Kimley-Horn and Associates, Inc.
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LTK Engineering Services

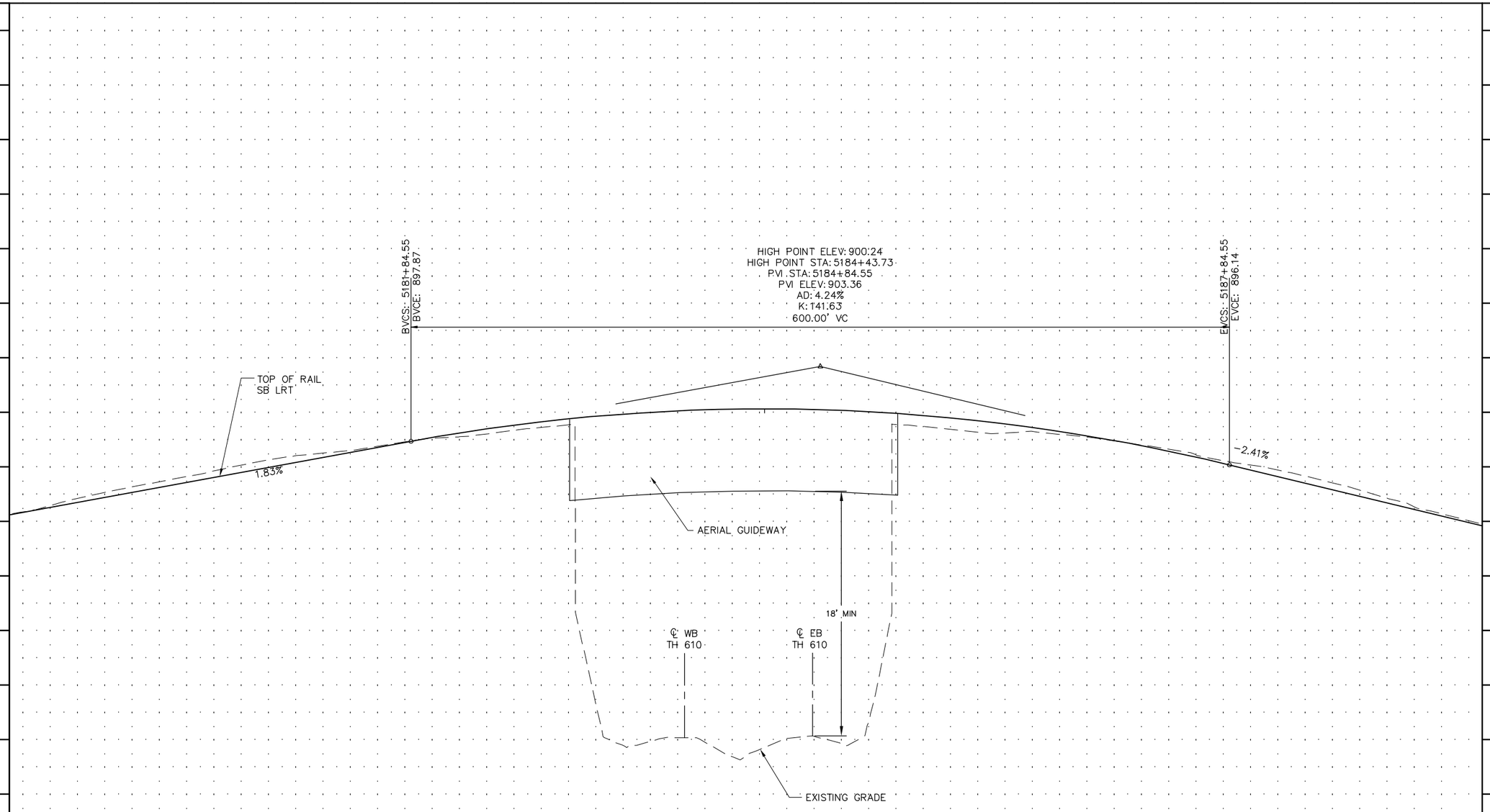
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DATE:	9/5/2012
PROJECT NO.	160528003.4.100

BOTTINEAU CORRIDOR
DRAFT EIS
CONCEPTUAL DESIGN

ALIGNMENT B
CRITICAL PROFILE
W. BROADWAY OVER TH 610
SHEET 22 OF 24

CRITICAL PROFILE

SHEET NUMBER
43 OF 122



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Bottineau Transitway
DRAFT ENVIRONMENTAL IMPACT STATEMENT

Hennepin

CONSULTANTS:

Kimley-Horn and Associates, Inc.
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FAX NO. (651) 645-5116

SRF Consulting Group, Inc.

LTK Engineering Services

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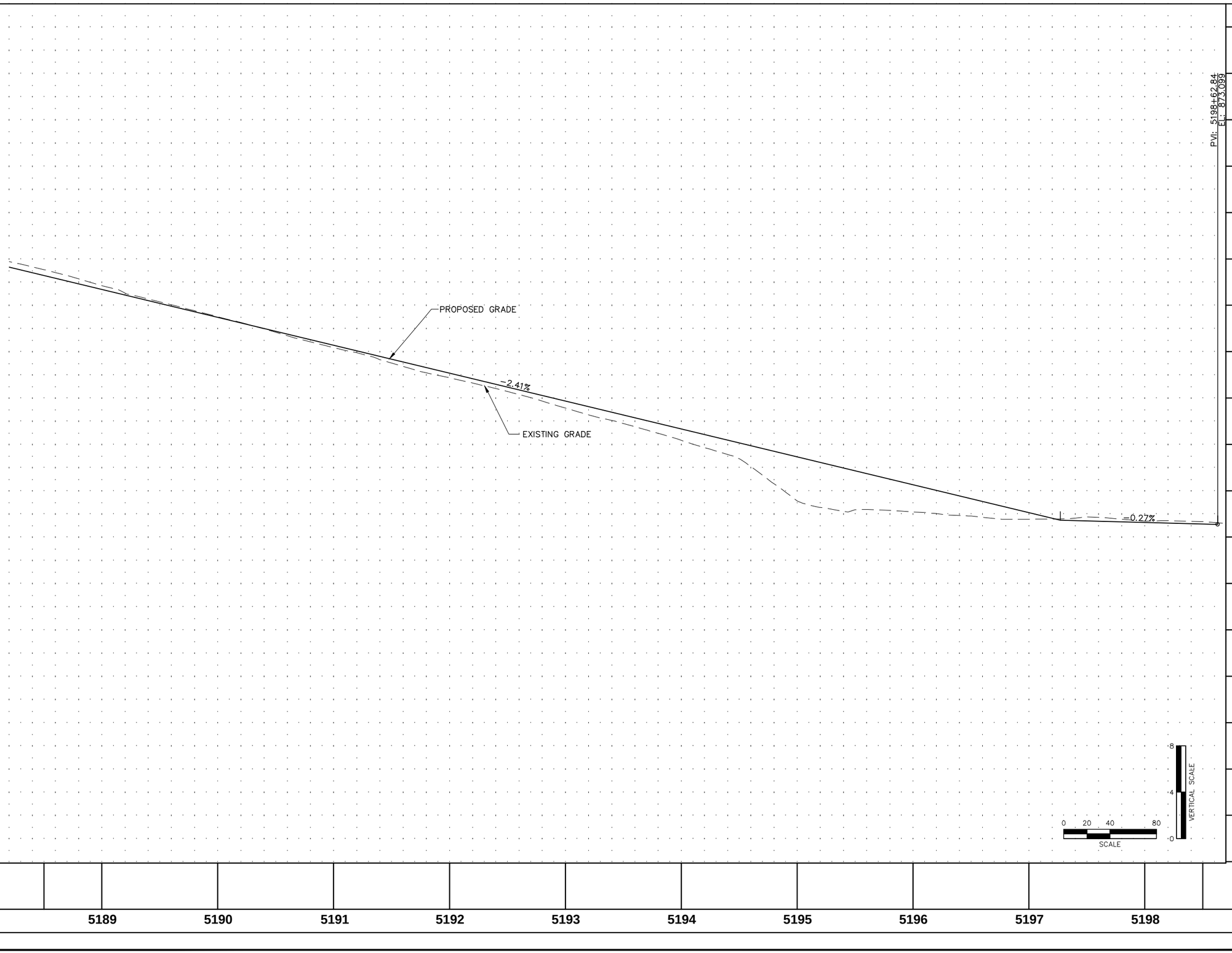
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PROJECT NO.	160528003.4.100

BOTTINEAU CORRIDOR
DRAFT EIS
CONCEPTUAL DESIGN

ALIGNMENT B
CRITICAL PROFILE
W. BROADWAY OVER TH 610
SHEET 23 OF 24

CRITICAL PROFILE

SHEET NUMBER
44 OF 122



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Bottineau Transitway
DRAFT ENVIRONMENTAL IMPACT STATEMENT

Hennepin

CONSULTANTS:

Kimley-Horn and Associates, Inc.
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FAX. NO. (651) 645-5116

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LTK Engineering Services

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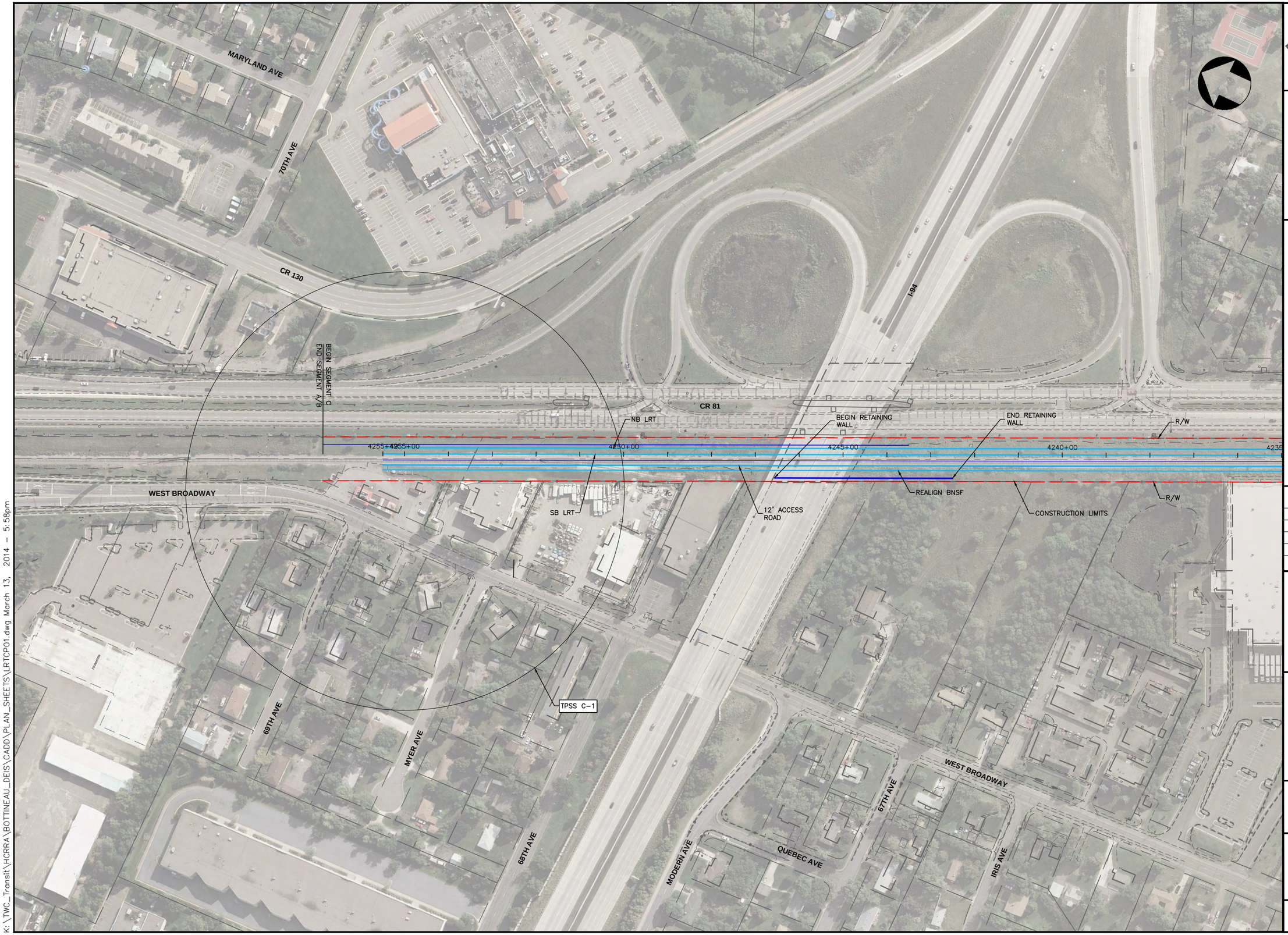
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CHECKED BY:
DATE: 9/5/2012
PROJECT NO. 160528003.4.100

BOTTINEAU CORRIDOR
DRAFT EIS
CONCEPTUAL DESIGN

ALIGNMENT B
CRITICAL PROFILE
W. BROADWAY OVER TH 610
SHEET 24 OF 24

CRITICAL PROFILE

SHEET NUMBER
45 OF 122



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Bottineau Transitway
DRAFT ENVIRONMENTAL IMPACT STATEMENT

Hennepin

CONSULTANTS:

Kimley-Horn and Associates, Inc.
2550 UNIVERSITY AVE. WEST, SUITE 345N
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TEL. NO. (651) 645-4197
FAX. NO. (651) 645-5116

SRF Consulting Group, Inc.

LTK Engineering Services

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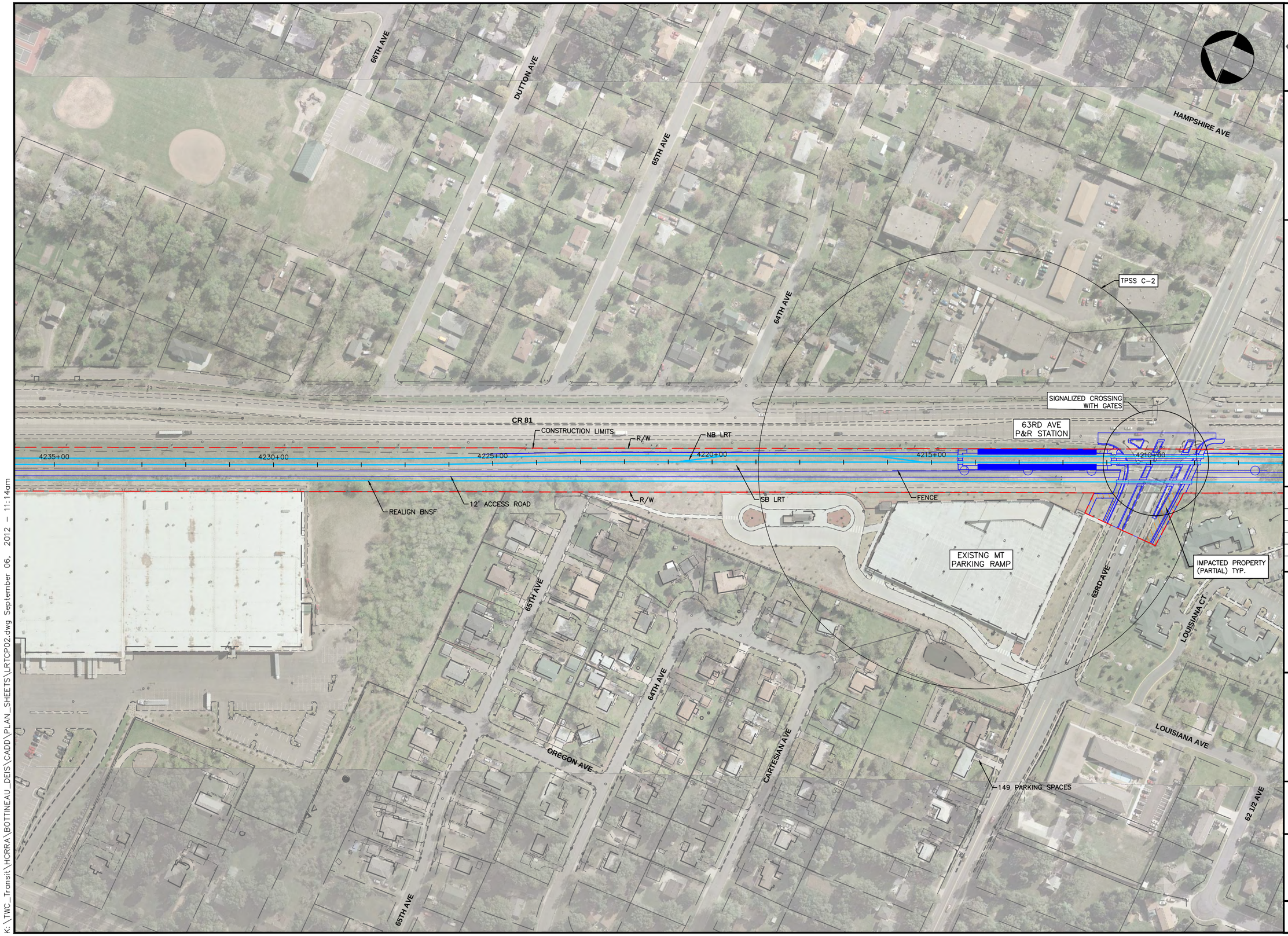
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BOTTINEAU TRANSITWAY
DRAFT EIS
CONCEPTUAL DESIGN

LRT ALIGNMENT C
SHEET 1 OF 30

ALIGNMENT PLAN
STA 4235+00 - 4256+65

SHEET NUMBER
46 OF 122



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Bottineau Transitway
DRAFT ENVIRONMENTAL IMPACT STATEMENT

Hennepin

CONSULTANTS:

Kimley-Horn and Associates, Inc.
2550 UNIVERSITY AVE. WEST, SUITE 345N
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SRF Consulting Group, Inc.

LTK Engineering Services

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PROJECT NO.	160528003.4.100

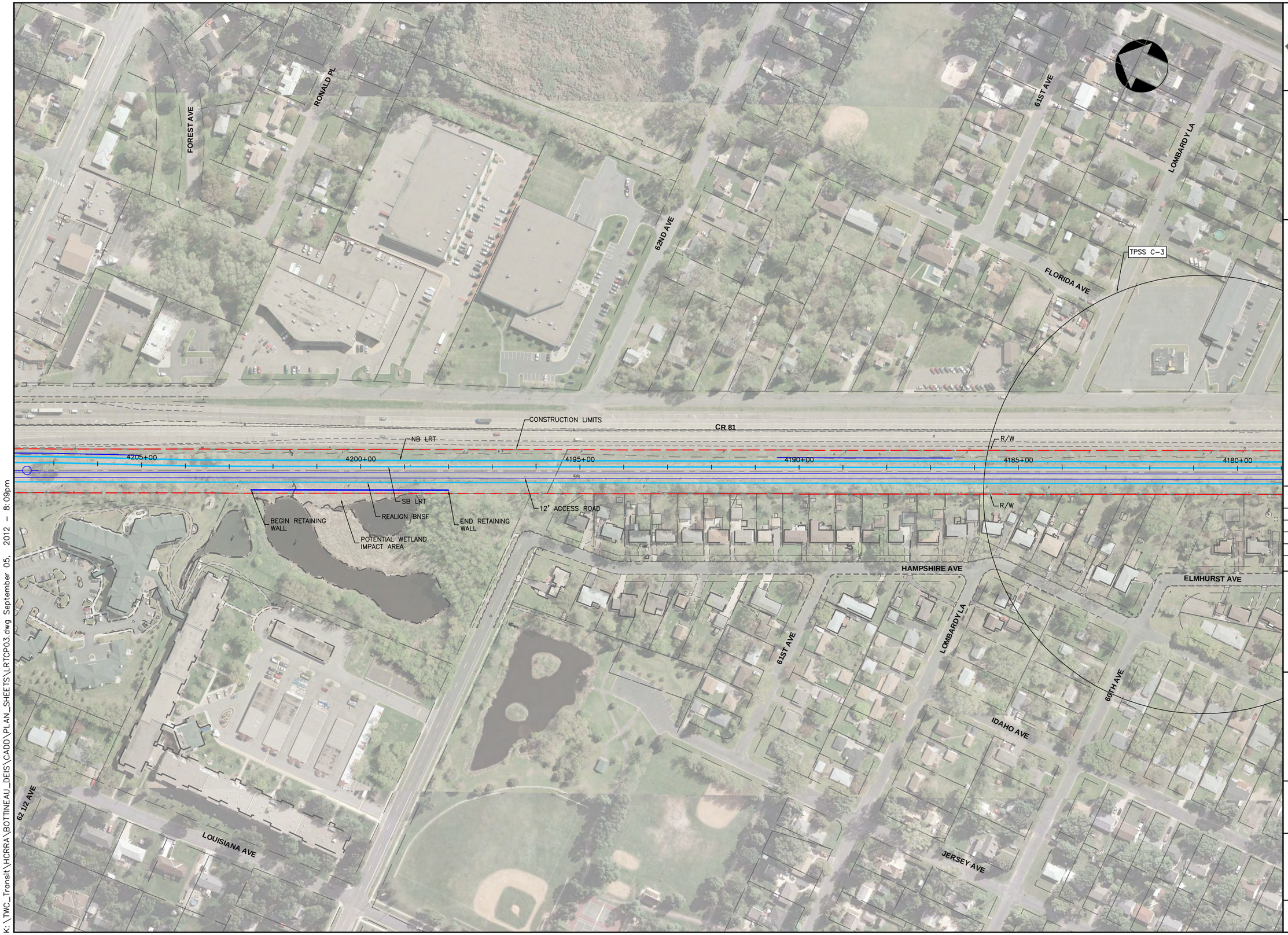
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BOTTINEAU TRANSITWAY
DRAFT EIS
CONCEPTUAL DESIGN

LRT ALIGNMENT C
SHEET 2 OF 30

ALIGNMENT PLAN
STA 4207+00 - 4235+00

SHEET NUMBER
47 OF 122



K:\TWC_Transit\HCRRA\BOTTINEAU_DEIS\CADD\PLAN_SHEETS\LRTCP03.dwg September 05, 2012 - 8:09pm

Bottineau Transitway
DRAFT ENVIRONMENTAL IMPACT STATEMENT

Hennepin

CONSULTANTS:

Kimley-Horn and Associates, Inc.
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LTK Engineering Services

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PROJECT NO.	160528003.4.100

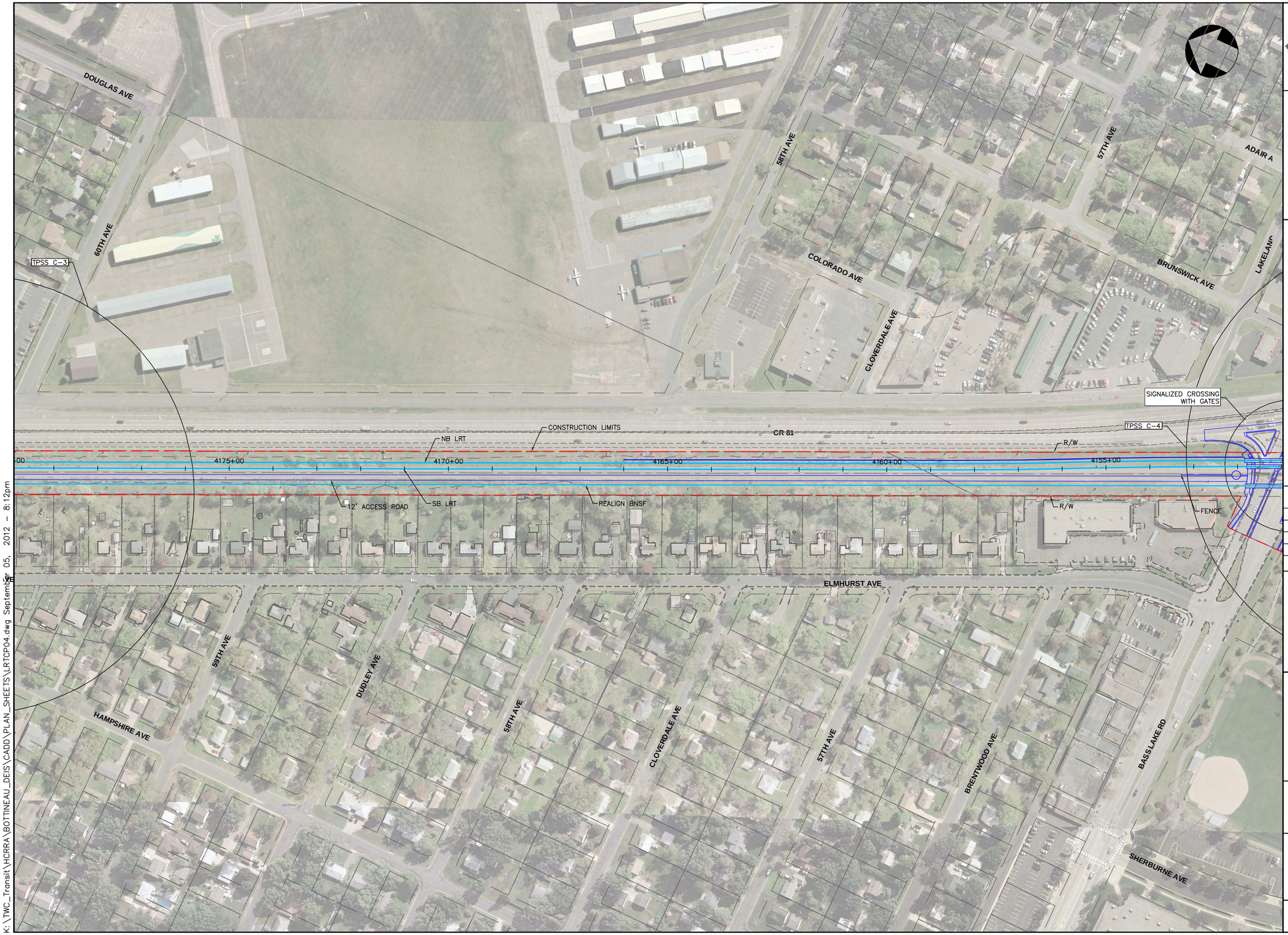
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BOTTINEAU TRANSITWAY
DRAFT EIS
CONCEPTUAL DESIGN

LRT ALIGNMENT C
SHEET 3 OF 30

ALIGNMENT PLAN
STA 4179+00 - 4207+00

SHEET NUMBER
48 OF 122



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Bottineau Transitway
DRAFT ENVIRONMENTAL IMPACT STATEMENT

Hennepin

CONSULTANTS:

Kimley-Horn and Associates, Inc.
2550 UNIVERSITY AVE. WEST, SUITE 345N
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PROJECT NO.	160528003.4.100

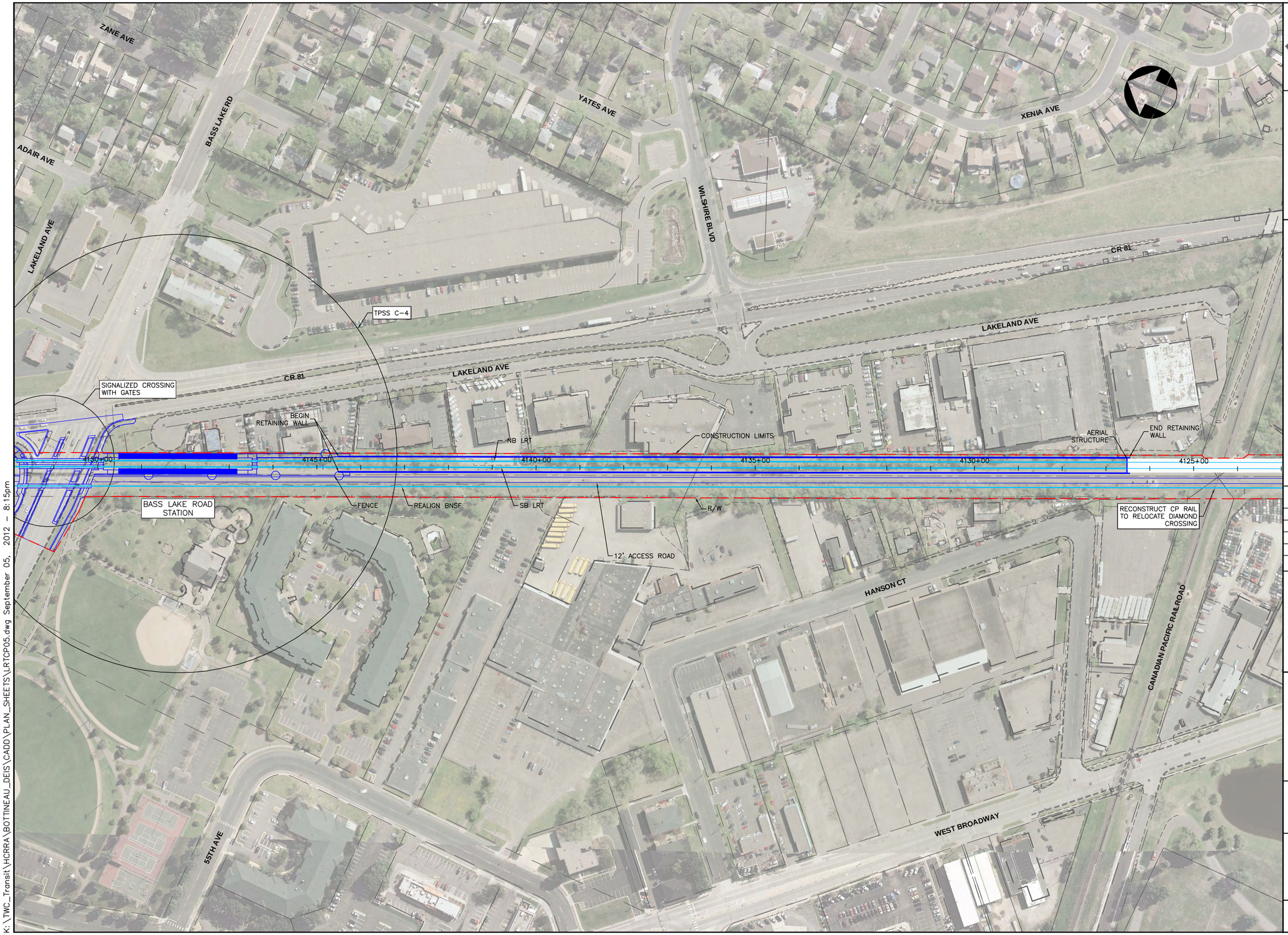
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BOTTINEAU TRANSITWAY
DRAFT EIS
CONCEPTUAL DESIGN

LRT ALIGNMENT C
SHEET 4 OF 30

ALIGNMENT PLAN
STA 4151+00 - 4179+00

SHEET NUMBER
49 OF 122



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Bottineau Transitway
DRAFT ENVIRONMENTAL IMPACT STATEMENT

Hennepin

CONSULTANTS:

Kimley-Horn and Associates, Inc.
2550 UNIVERSITY AVE. WEST, SUITE 345N
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PROJECT NO.	160528003.4.100

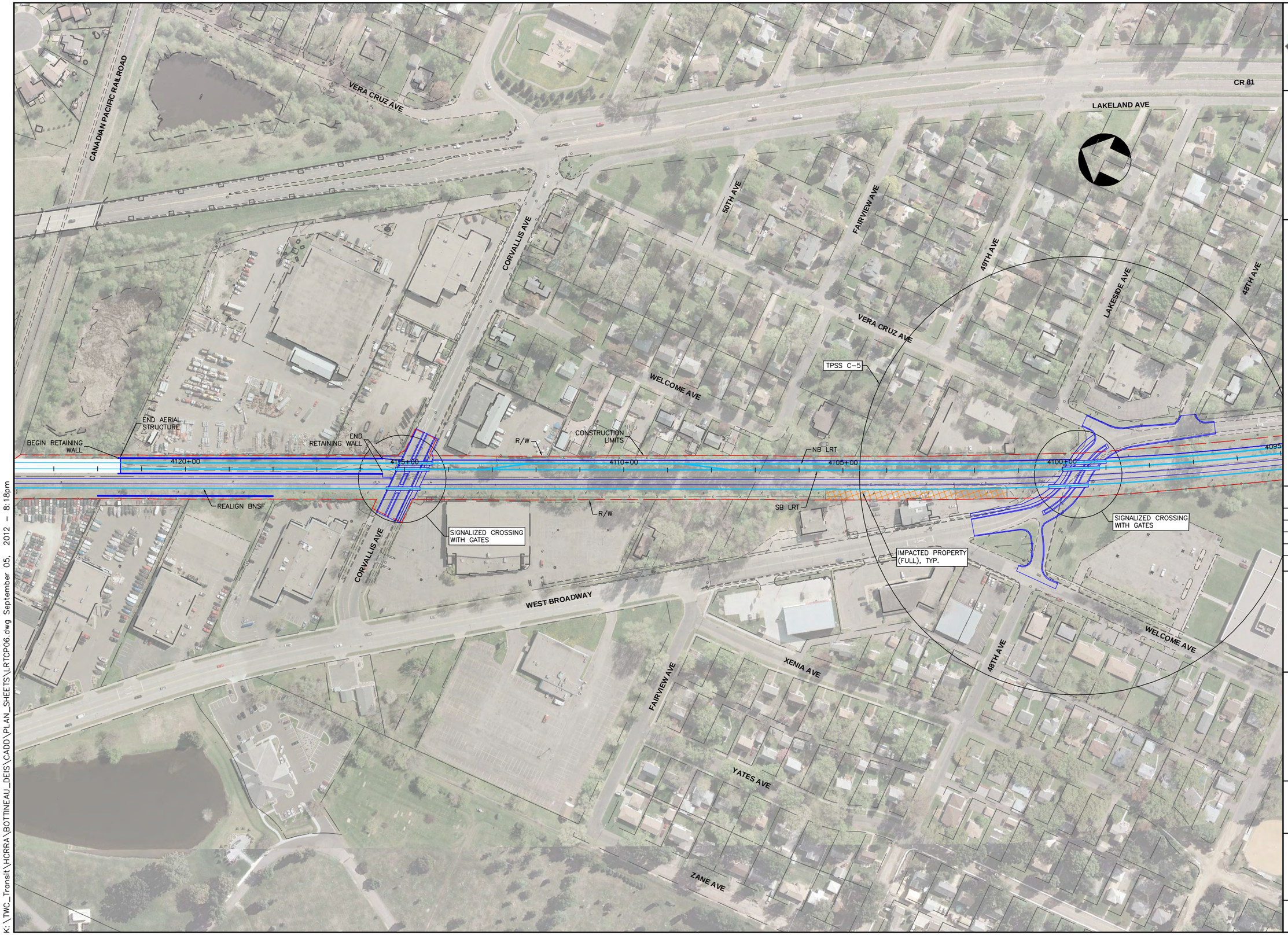
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BOTTINEAU TRANSITWAY
DRAFT EIS
CONCEPTUAL DESIGN

LRT ALIGNMENT C
SHEET 5 OF 30

ALIGNMENT PLAN
STA 4123+00 - 4151+00

SHEET NUMBER
50 OF 122



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Bottineau Transitway
DRAFT ENVIRONMENTAL IMPACT STATEMENT

Hennepin

CONSULTANTS:

Kimley-Horn and Associates, Inc.
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PROJECT NO.	160528003.4.100

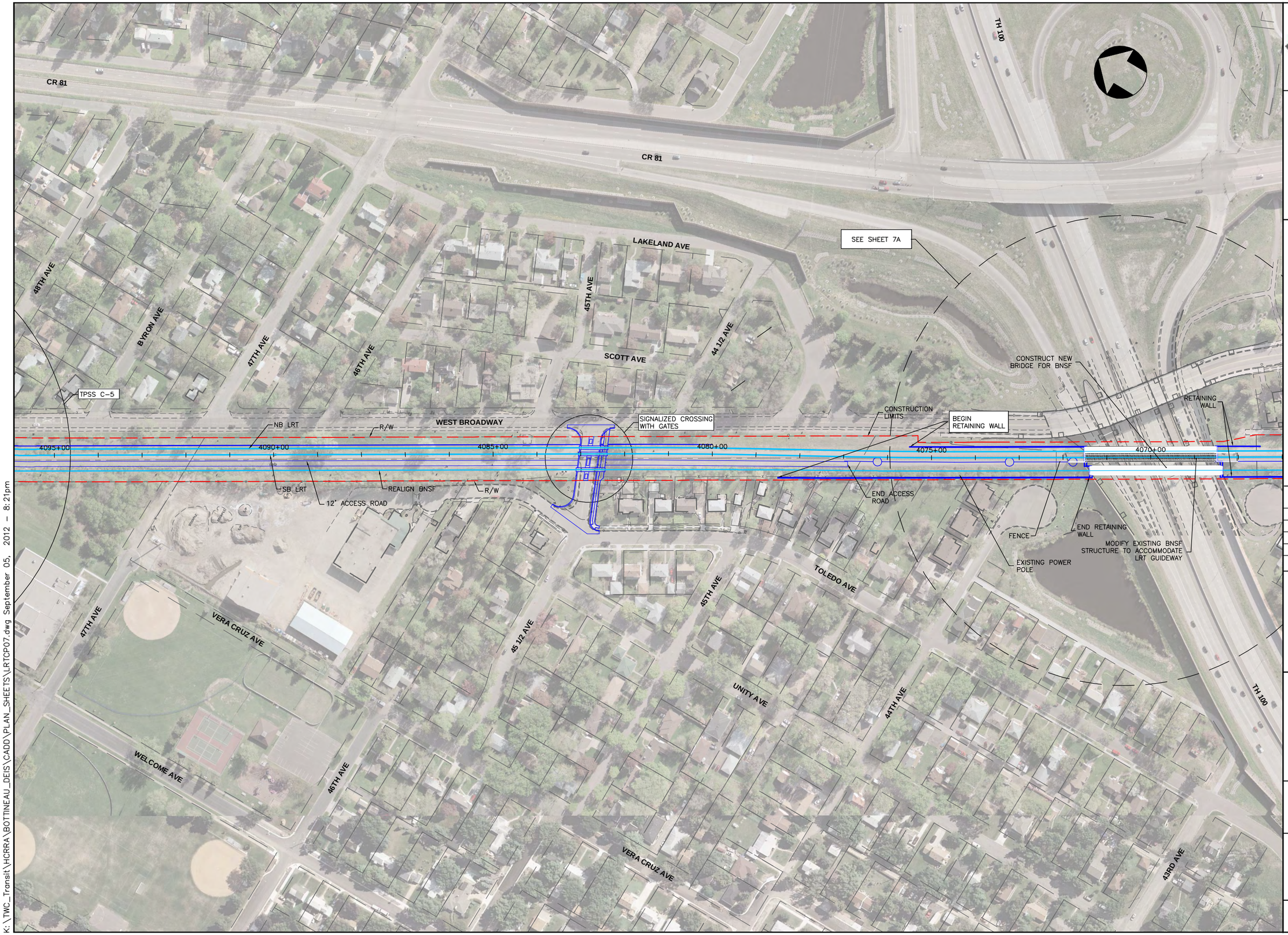
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BOTTINEAU TRANSITWAY
DRAFT EIS
CONCEPTUAL DESIGN

LRT ALIGNMENT C
SHEET 6 OF 30

ALIGNMENT PLAN
STA 4095+00 - 4123+00

SHEET NUMBER
51 OF 122



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Bottineau Transitway
DRAFT ENVIRONMENTAL IMPACT STATEMENT

Hennepin

CONSULTANTS:

Kimley-Horn and Associates, Inc.
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LTK Engineering Services

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CHECKED BY:	
DATE:	9/5/2012
PROJECT NO.	160528003.4.100

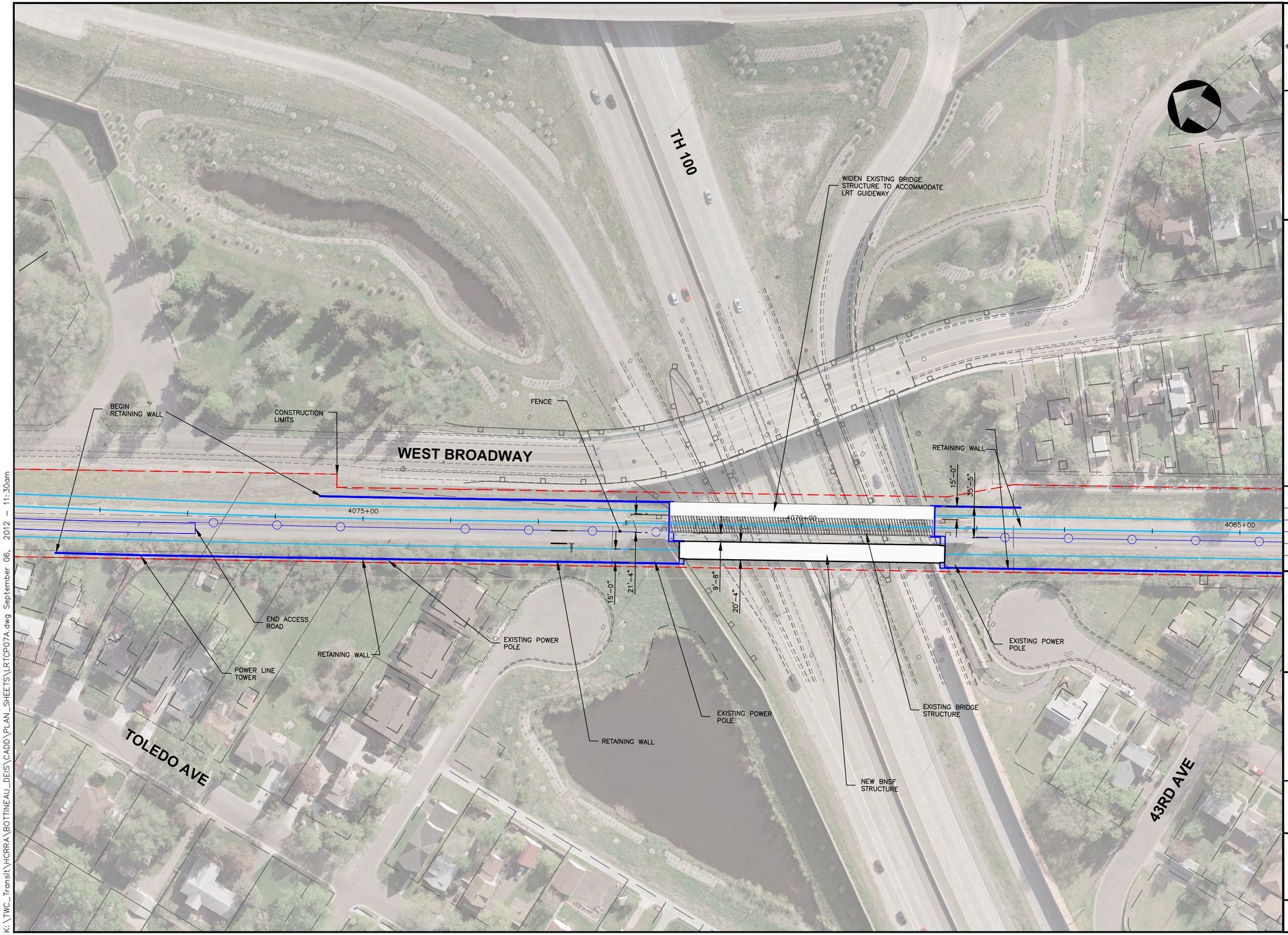
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BOTTINEAU TRANSITWAY
DRAFT EIS
CONCEPTUAL DESIGN

LRT ALIGNMENT C
SHEET 7 OF 30

ALIGNMENT PLAN
STA 4067+00 - 4095+00

SHEET NUMBER
52 OF 122



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Bottineau Transitway
DRAFT ENVIRONMENTAL IMPACT STATEMENT

Hennepin

CONSULTANTS:

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DATE:	9/5/2012
PROJECT NO.	160528003.4.100

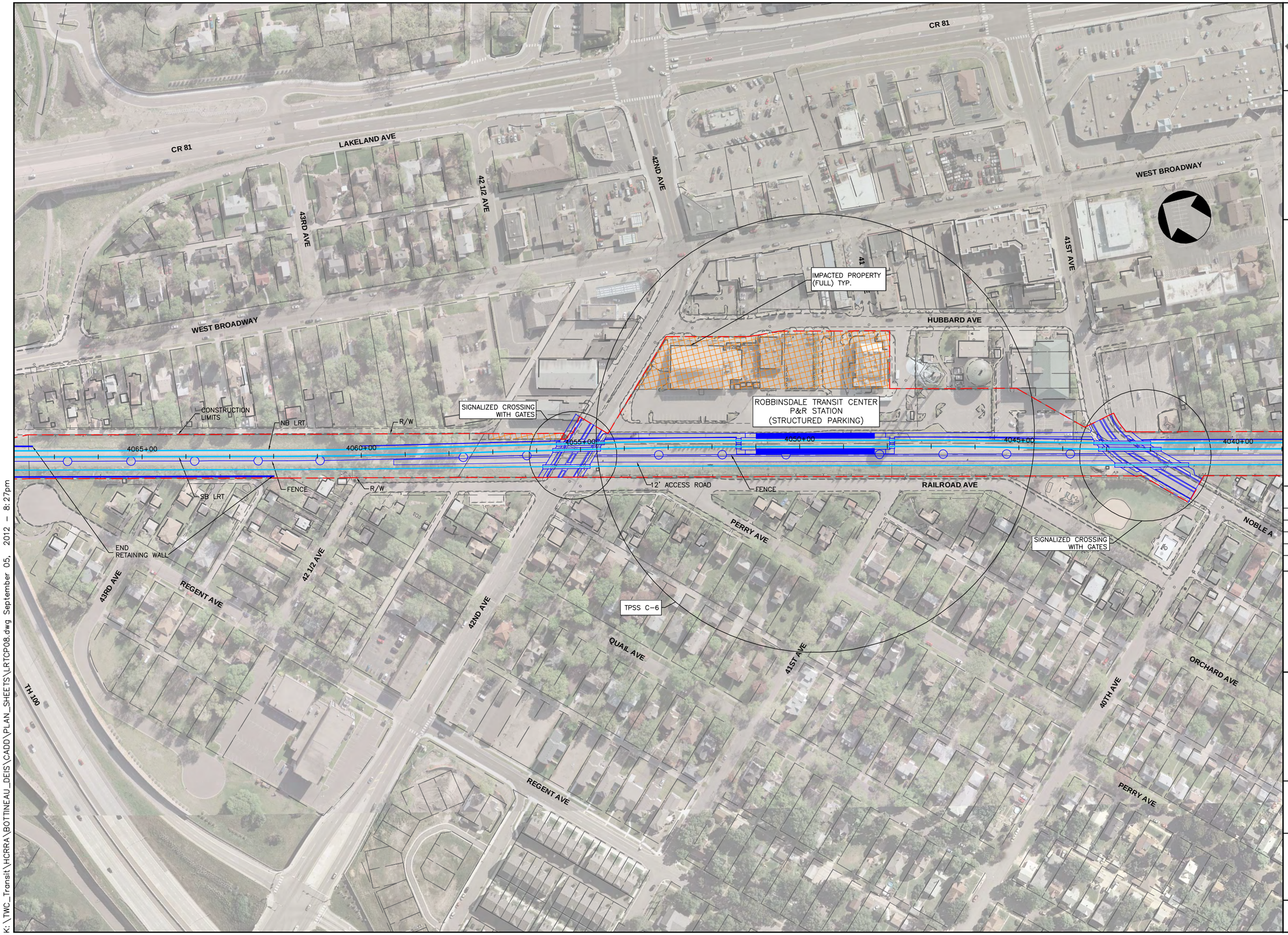
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BOTTINEAU TRANSITWAY
DRAFT EIS
CONCEPTUAL DESIGN

LRT ALIGNMENT C
SHEET 7A OF 10

ALIGNMENT PLAN
STA 4067+00 - 4095+00

SHEET NUMBER
53 OF 122



K:\TWC_Transit\HCRRA\BOTTINEAU_DEIS\CADD\PLAN_SHEETS\LRTCP08.dwg September 05, 2012 - 8:27pm

Bottineau Transitway
DRAFT ENVIRONMENTAL IMPACT STATEMENT

Hennepin

CONSULTANTS:

Kimley-Horn and Associates, Inc.
2550 UNIVERSITY AVE. WEST, SUITE 345N
ST. PAUL, MINNESOTA 55114
TEL. NO. (651) 645-4197
FAX. NO. (651) 645-5116

SRF Consulting Group, Inc.

LTK Engineering Services

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PROJECT NO.	160528003.4.100

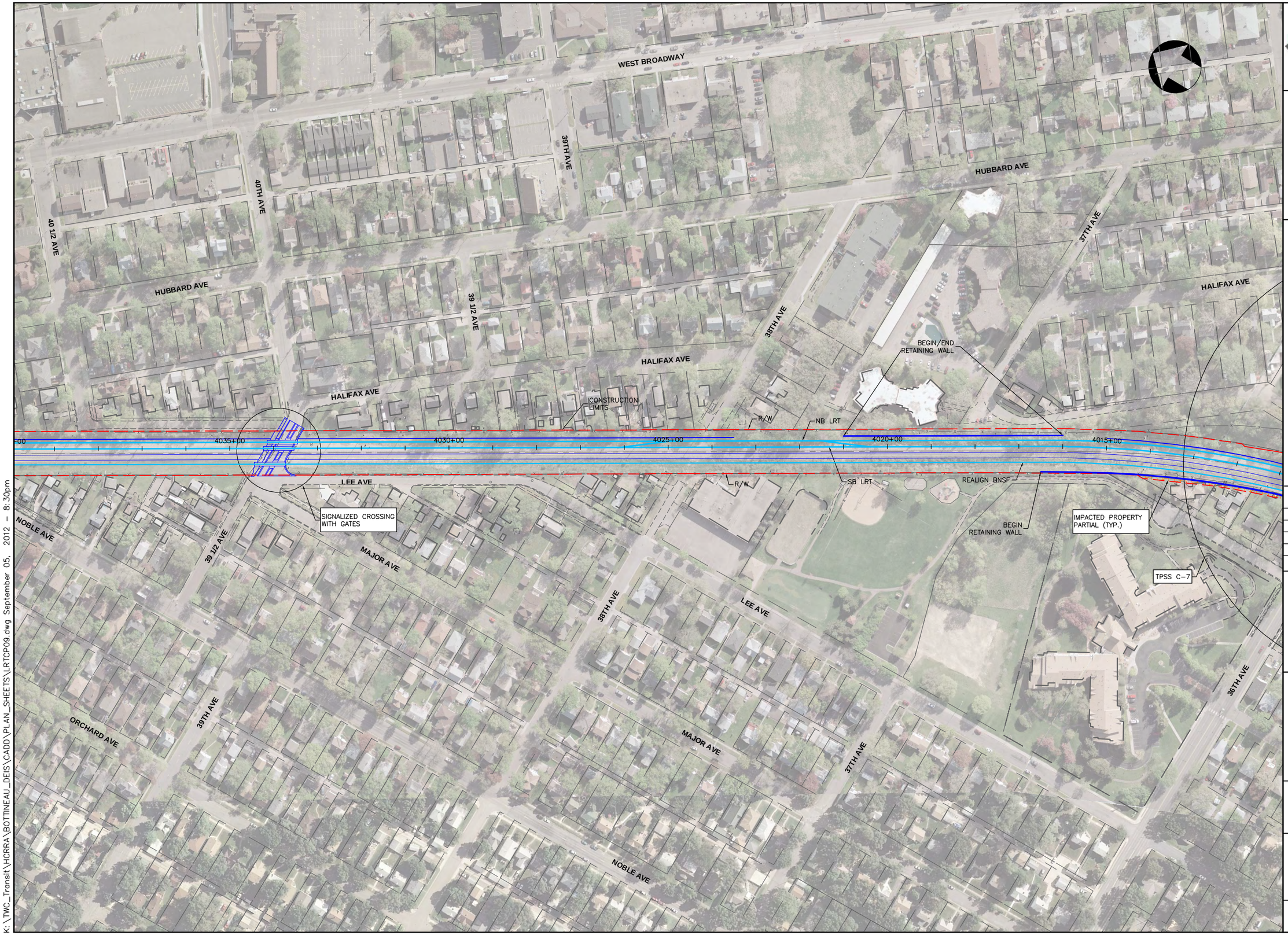
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BOTTINEAU TRANSITWAY
DRAFT EIS
CONCEPTUAL DESIGN

LRT ALIGNMENT C
SHEET 9 OF 30

ALIGNMENT PLAN
STA 4039+00 - 4067+00

SHEET NUMBER
54 OF 122



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Bottineau Transitway
DRAFT ENVIRONMENTAL IMPACT STATEMENT

Hennepin

CONSULTANTS:

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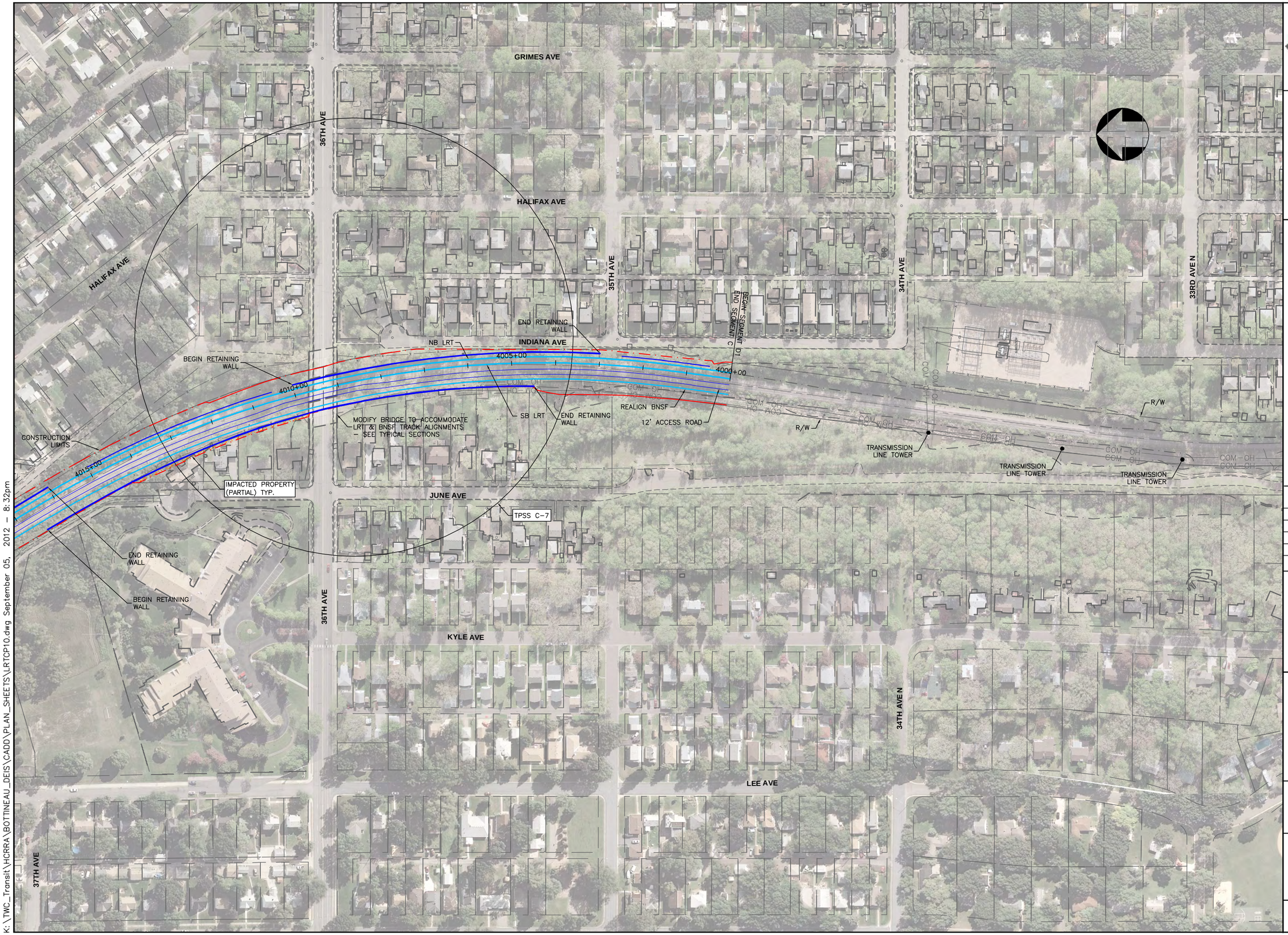
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BOTTINEAU TRANSITWAY
DRAFT EIS
CONCEPTUAL DESIGN

LRT ALIGNMENT C
SHEET 10 OF 30

ALIGNMENT PLAN
STA 4013+00 - 4039+00

SHEET NUMBER
55 OF 122



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Bottineau Transitway
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Hennepin

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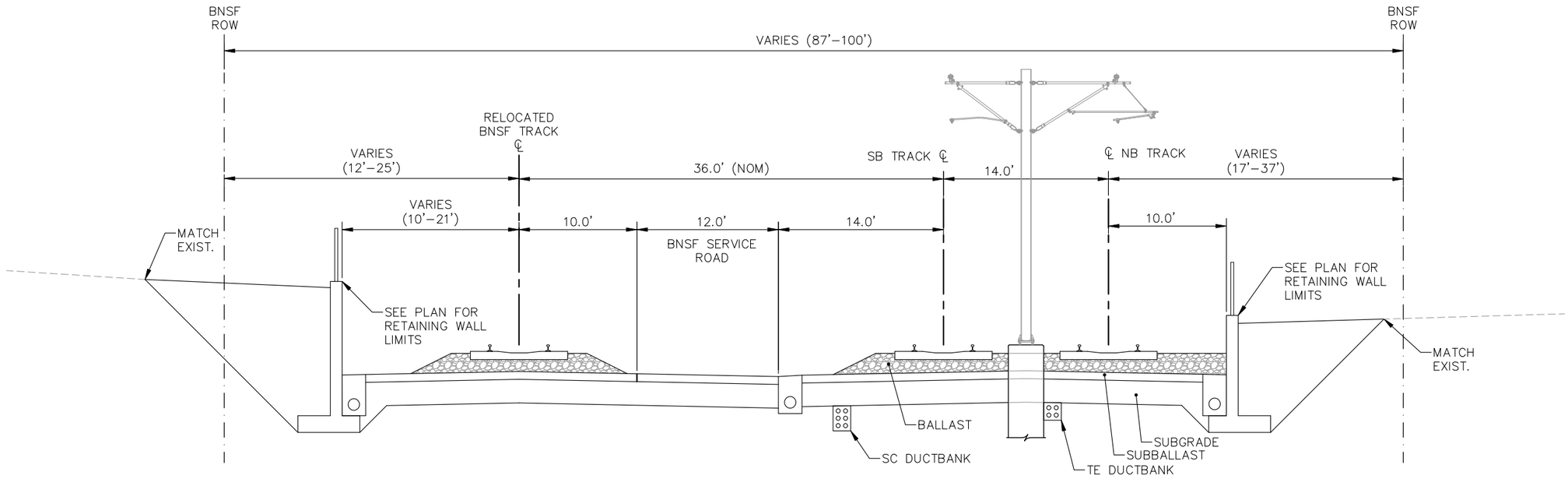
BOTTINEAU TRANSITWAY
DRAFT EIS
CONCEPTUAL DESIGN

LRT ALIGNMENT C
SHEET 11 OF 30

ALIGNMENT PLAN

STA 4000+00 - 4016+00

SHEET NUMBER
56 OF 122



TYPICAL SECTION C-01
ALIGNMENT C - STA. 4000+00 TO STA. 4042+00

NOTE: STATIONING REPRESENTS THE SB LRT TRACK

P:\Projects\C4147.02 – Bottineau DEIS\C3D\BOTT–TYP C_01.dwg August 24, 2012 – 9:26am

BottineauTransitway
DRAFT ENVIRONMENTAL IMPACT STATEMENT

Hennepin

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FAX. NO. (651) 645-5116

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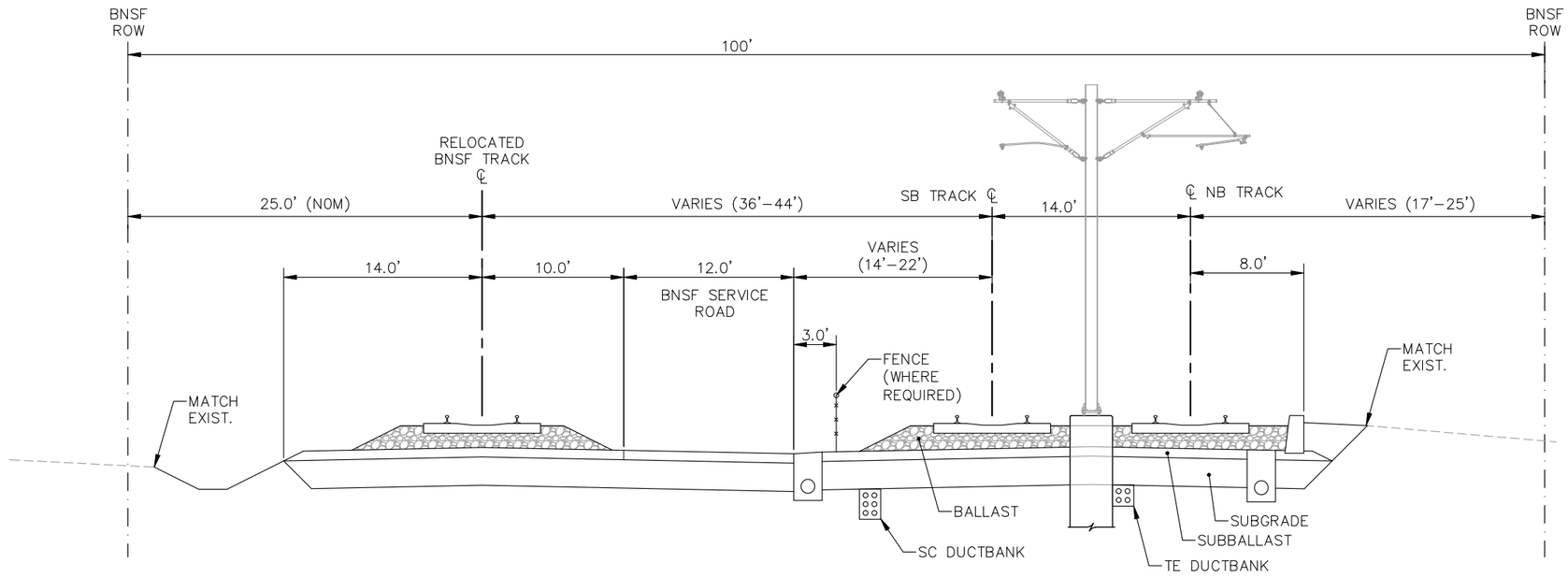
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DATE:	6/29/12
PROJECT NO.	160528003.4.100

BOTTINEAU CORRIDOR
DRAFT EIS
CONCEPTUAL DESIGN

LRT ALIGNMENT C
SHEET 12 OF 29

TYPICAL SECTION C-01

SHEET NUMBER
57 OF 122



TYPICAL SECTION C-02
ALIGNMENT C - STA. 4042+00 TO STA. 4054+00

NOTE: STATIONING REPRESENTS THE SB LRT TRACK

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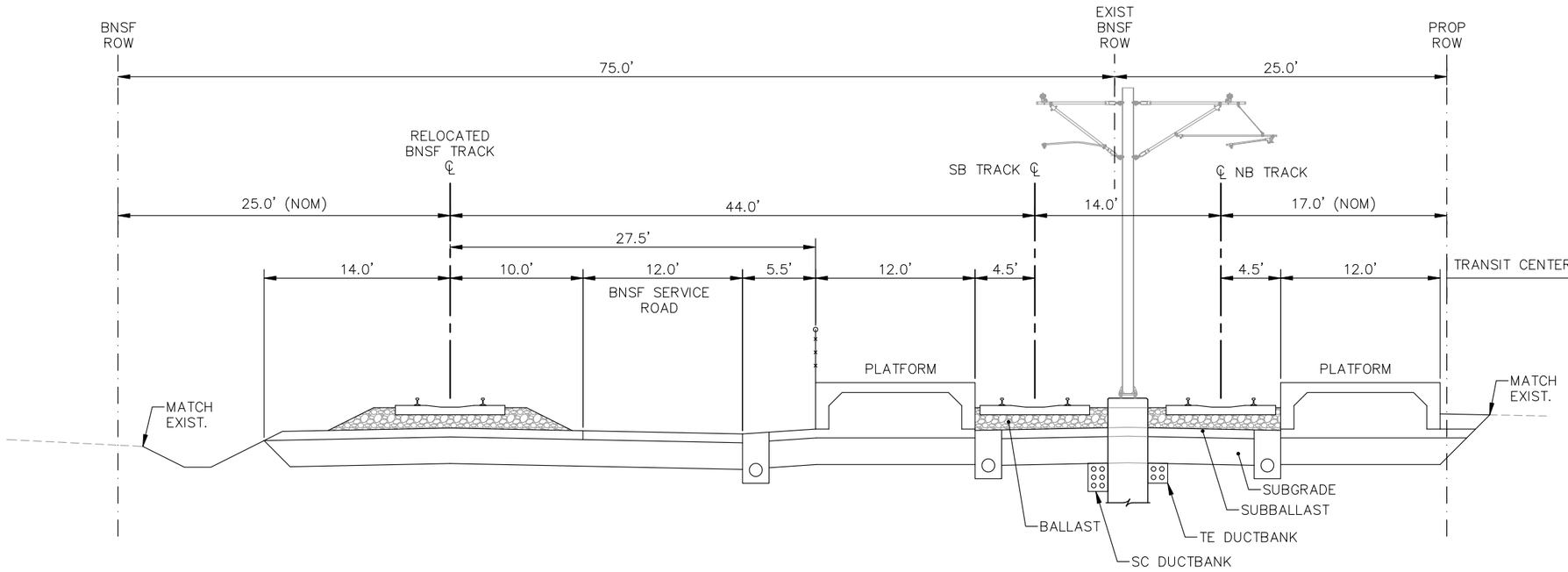
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PROJECT NO.	160528003.4.100

BOTTINEAU CORRIDOR
DRAFT EIS
CONCEPTUAL DESIGN

LRT ALIGNMENT C
SHEET 13 OF 29

TYPICAL SECTION C-02

SHEET NUMBER
58 OF 122



TYPICAL SECTION C-02A
ALIGNMENT C - ROBBINSDALE STATION

NOTE: STATIONING REPRESENTS THE SB LRT TRACK

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Bottineau Transitway
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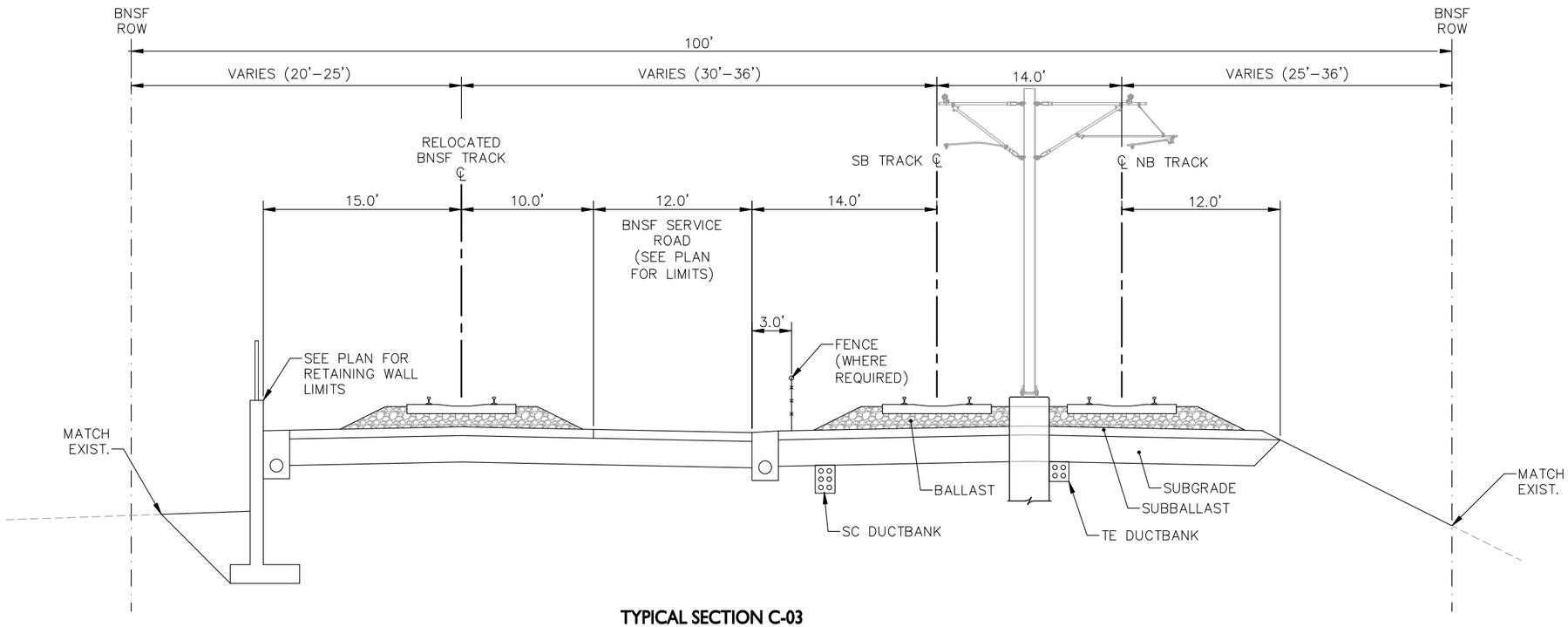
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BOTTINEAU CORRIDOR
DRAFT EIS
CONCEPTUAL DESIGN

LRT ALIGNMENT C
SHEET 14 OF 29

TYPICAL SECTION C-02A

SHEET NUMBER
59 OF 122



TYPICAL SECTION C-03
ALIGNMENT C - STA. 4054+00 TO STA. 4068+50

NOTE: STATIONING REPRESENTS THE SB LRT TRACK

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BottineauTransitway
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TEL. NO. (651) 645-4197
FAX. NO. (651) 645-5116

SRF Consulting Group, Inc.

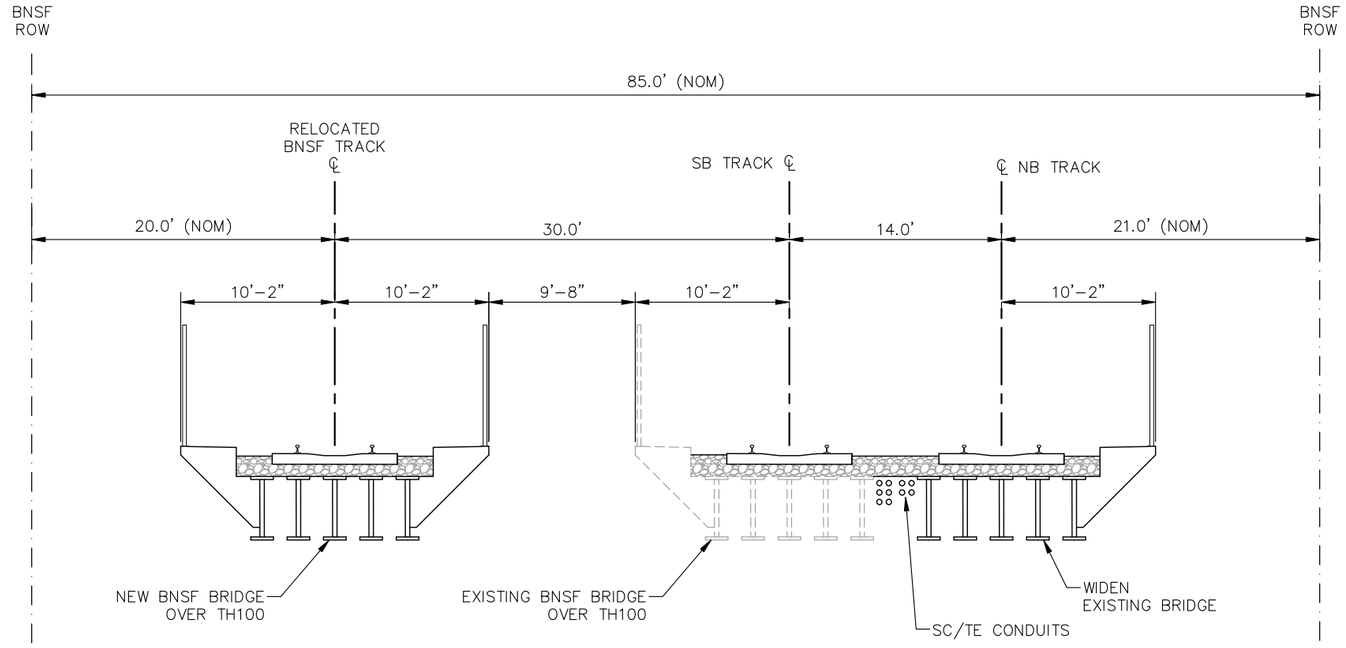
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DATE:	6/29/12
PROJECT NO.	160528003.4.100

BOTTINEAU CORRIDOR
DRAFT EIS
CONCEPTUAL DESIGN

LRT ALIGNMENT C
SHEET 15 OF 29

TYPICAL SECTION C-03



TYPICAL SECTION C-04
ALIGNMENT C - STA. 4068+50 TO STA. 4071+50

NOTE: STATIONING REPRESENTS THE SB LRT TRACK

P:\Projects\C4147.02 - Bottineau DEIS\C3D\BOTT-TYP C_04.dwg August 24, 2012 - 9:26am

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Hennepin

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FAX. NO. (651) 645-5116

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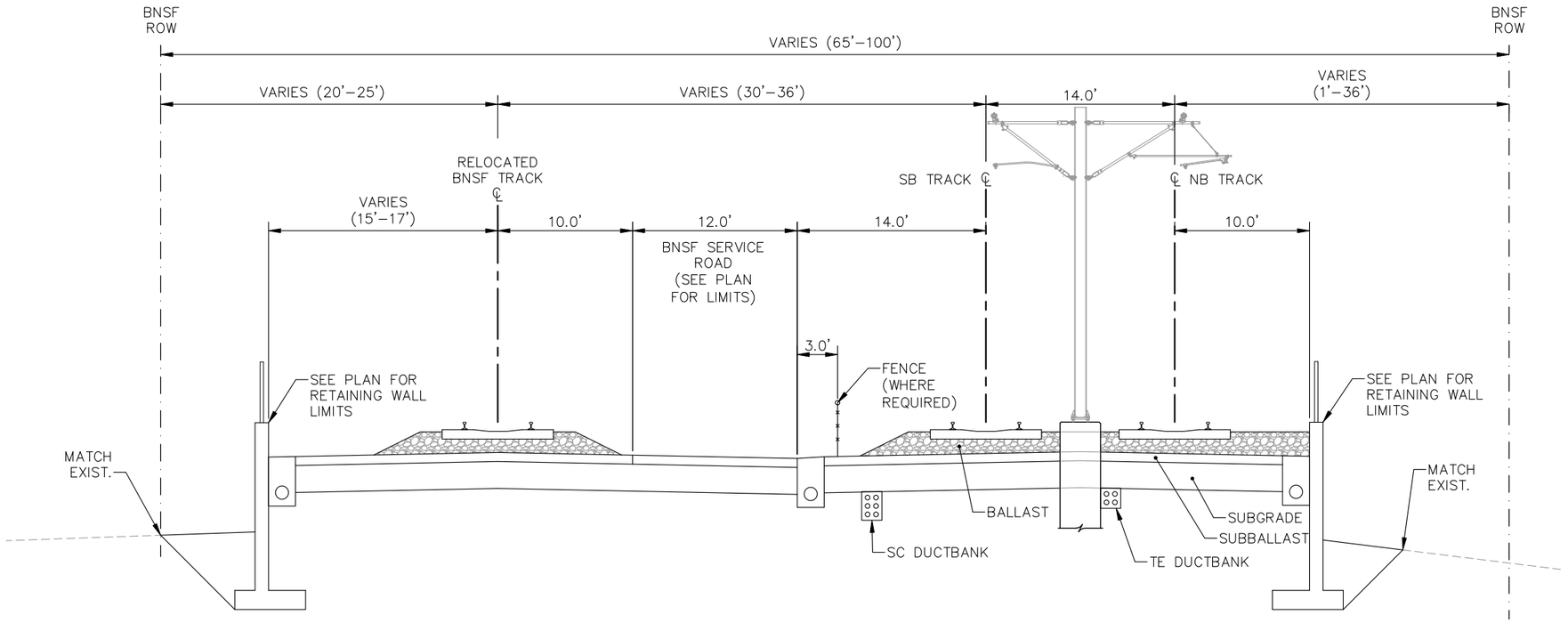
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PROJECT NO.	160528003.4.100

BOTTINEAU CORRIDOR
DRAFT EIS
CONCEPTUAL DESIGN

LRT ALIGNMENT C
SHEET 16 OF 29

TYPICAL SECTION C-04

SHEET NUMBER
61 OF 122



TYPICAL SECTION C-05
ALIGNMENT C - STA. 4071+50 TO STA. 4083+00

NOTE: STATIONING REPRESENTS THE SB LRT TRACK

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DRAFT ENVIRONMENTAL IMPACT STATEMENT

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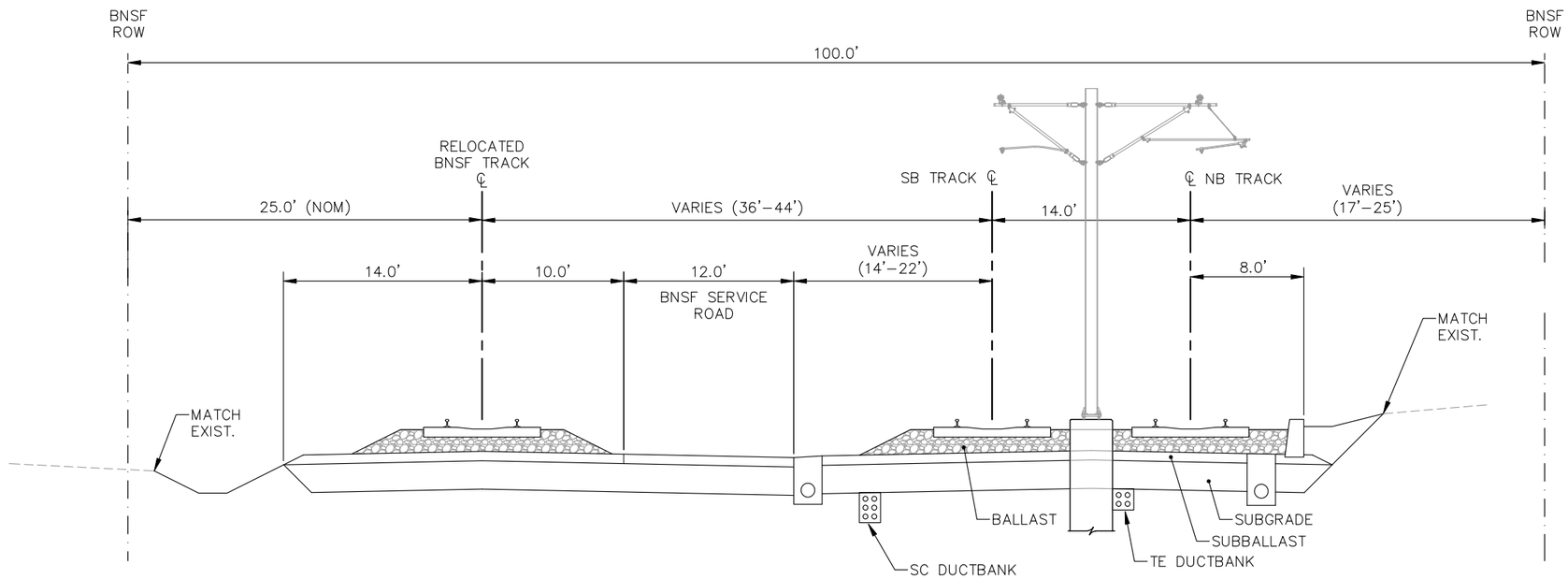
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BOTTINEAU CORRIDOR
DRAFT EIS
CONCEPTUAL DESIGN

LRT ALIGNMENT C
SHEET 17 OF 29

TYPICAL SECTION C-05



TYPICAL SECTION C-06
ALIGNMENT C - STA. 4083+00 TO STA. 4115+50

NOTE: STATIONING REPRESENTS THE SB LRT TRACK

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Hennepin

CONSULTANTS:

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2550 UNIVERSITY AVE. WEST, SUITE 345N
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TEL. NO. (651) 645-4197
FAX. NO. (651) 645-5116

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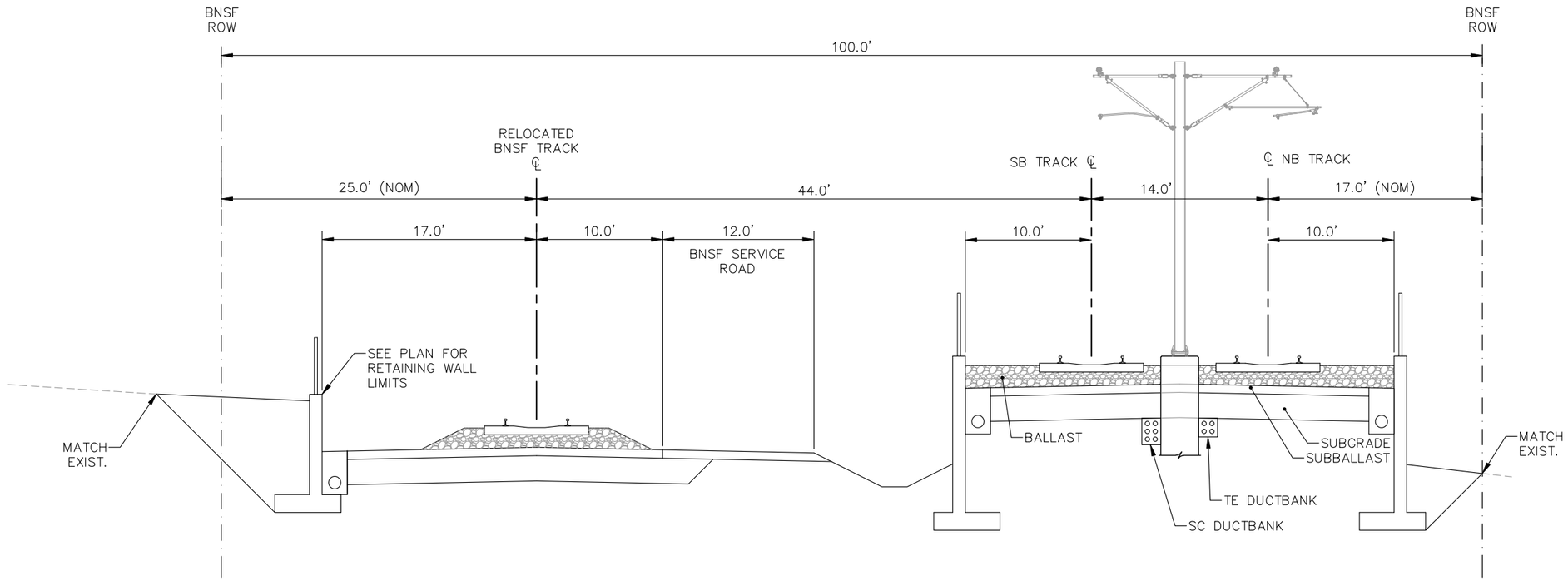
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DATE:	6/29/12
PROJECT NO.	160528003.4.100

BOTTINEAU CORRIDOR
DRAFT EIS
CONCEPTUAL DESIGN

LRT ALIGNMENT C
SHEET 18 OF 29

TYPICAL SECTION C-06

SHEET NUMBER
63 OF 122



TYPICAL SECTION C-07
ALIGNMENT C - STA. 4115+50 TO STA. 4121+50

NOTE: STATIONING REPRESENTS THE SB LRT TRACK

P:\Projects\C4147.02 - Bottineau DEIS\C3D\BOTT-TYP C_07.dwg August 24, 2012 - 9:27am

Bottineau Transitway
DRAFT ENVIRONMENTAL IMPACT STATEMENT

Hennepin

CONSULTANTS:

Kimley-Horn and Associates, Inc.
2550 UNIVERSITY AVE. WEST, SUITE 345N
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TEL. NO. (651) 645-4197
FAX. NO. (651) 645-5116

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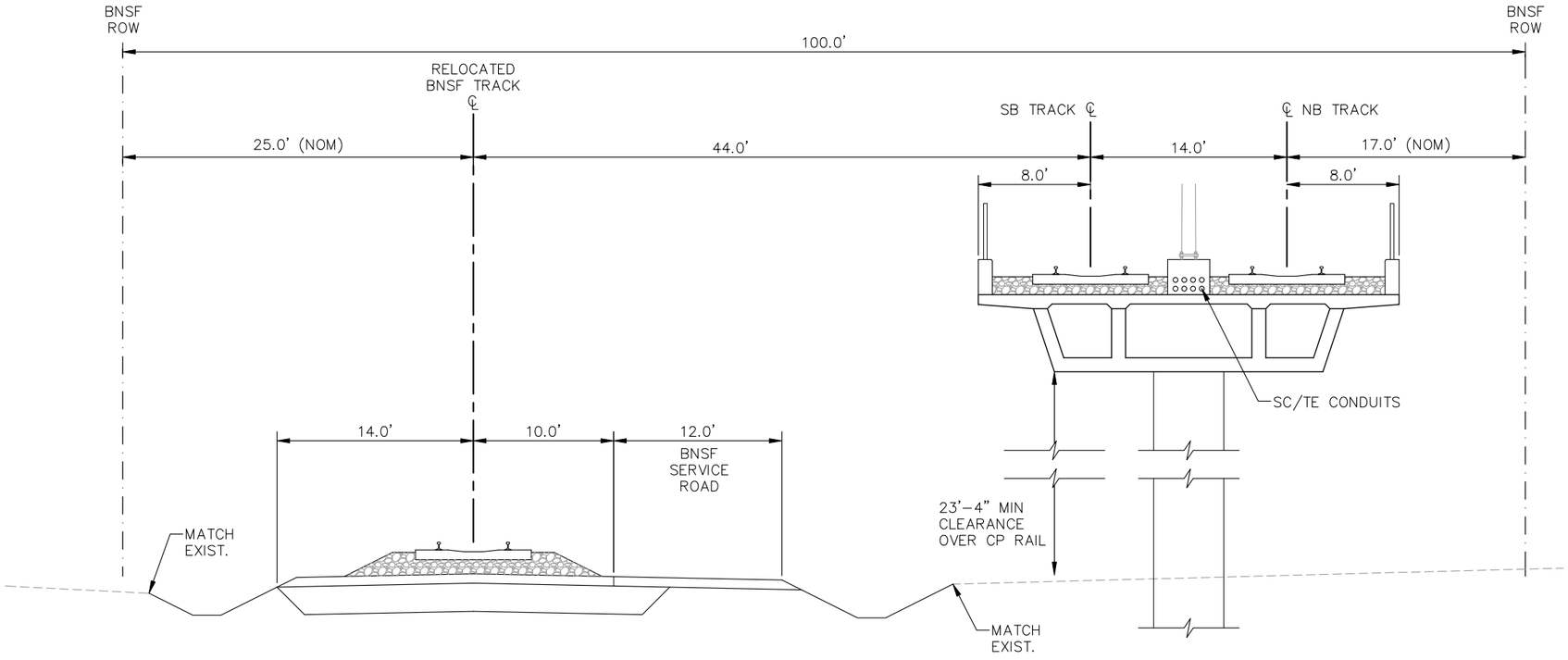
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PROJECT NO.	160528003.4.100

BOTTINEAU CORRIDOR
DRAFT EIS
CONCEPTUAL DESIGN

LRT ALIGNMENT C
SHEET 19 OF 29

TYPICAL SECTION C-07

SHEET NUMBER
64 OF 122



TYPICAL SECTION C-08
ALIGNMENT C - STA. 4121+50 TO STA. 4126+50

NOTE: STATIONING REPRESENTS THE SB LRT TRACK

P:\Projects\C4147.02 - Bottineau DEIS\C3D\BOTT-TYP C_08.dwg August 24, 2012 - 9:27am

BottineauTransitway
DRAFT ENVIRONMENTAL IMPACT STATEMENT

Hennepin

CONSULTANTS:

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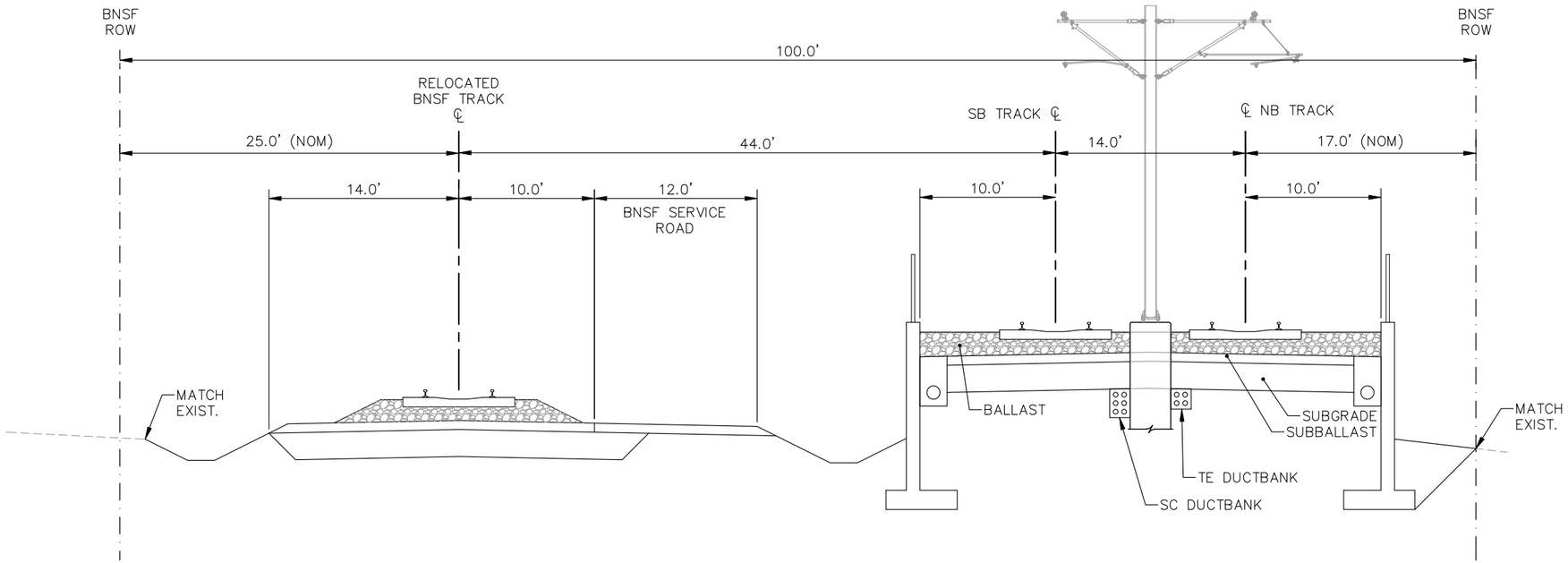
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PROJECT NO.	160528003.4.100

BOTTINEAU CORRIDOR
DRAFT EIS
CONCEPTUAL DESIGN

LRT ALIGNMENT C
SHEET 20 OF 29

TYPICAL SECTION C-08

SHEET NUMBER
65 OF 122



TYPICAL SECTION C-09
ALIGNMENT C - STA. 4126+50 TO STA. 4144+50

NOTE: STATIONING REPRESENTS THE SB LRT TRACK

P:\Projects\C4147.02 - Bottineau DEIS\C3D\BOTT-TYP C_09.dwg August 24, 2012 - 9:27am

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DRAFT ENVIRONMENTAL IMPACT STATEMENT

Hennepin

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TEL. NO. (651) 645-4197
FAX. NO. (651) 645-5116

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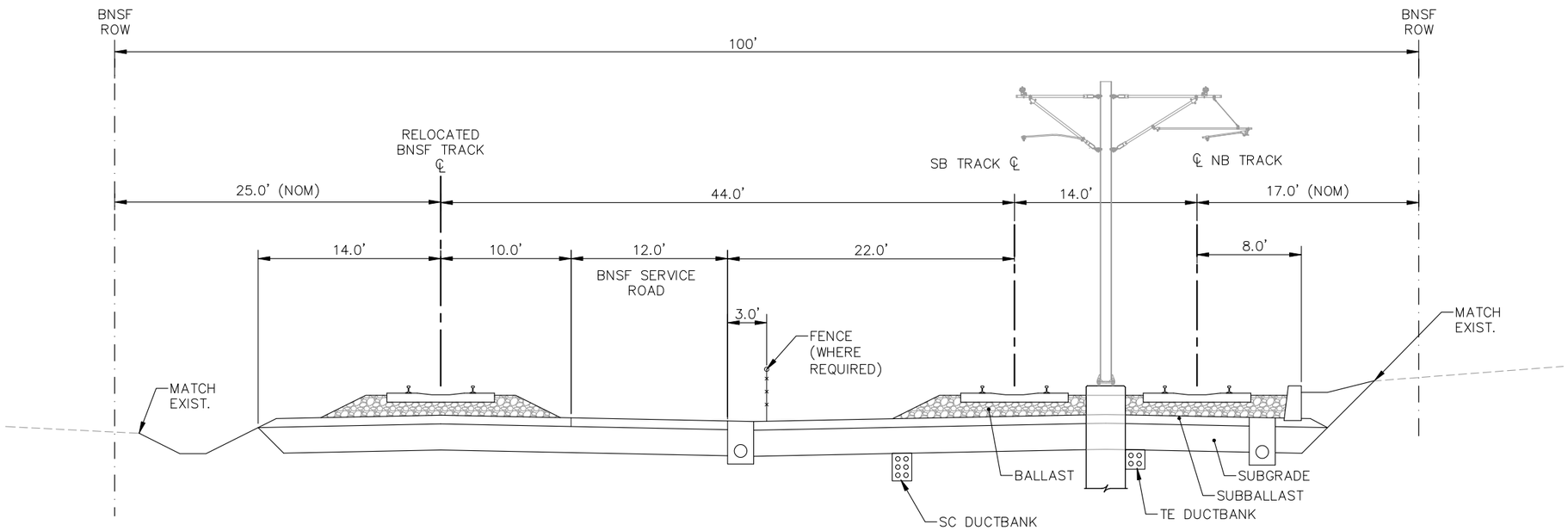
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PROJECT NO.	160528003.4.100

BOTTINEAU CORRIDOR
DRAFT EIS
CONCEPTUAL DESIGN

LRT ALIGNMENT C
SHEET 21 OF 29

TYPICAL SECTION C-09

SHEET NUMBER
66 OF 122



TYPICAL SECTION C-10
ALIGNMENT C - STA. 4144+50 TO STA. 4151+00

NOTE: STATIONING REPRESENTS THE SB LRT TRACK

BottineauTransitway
DRAFT ENVIRONMENTAL IMPACT STATEMENT

Hennepin

CONSULTANTS:

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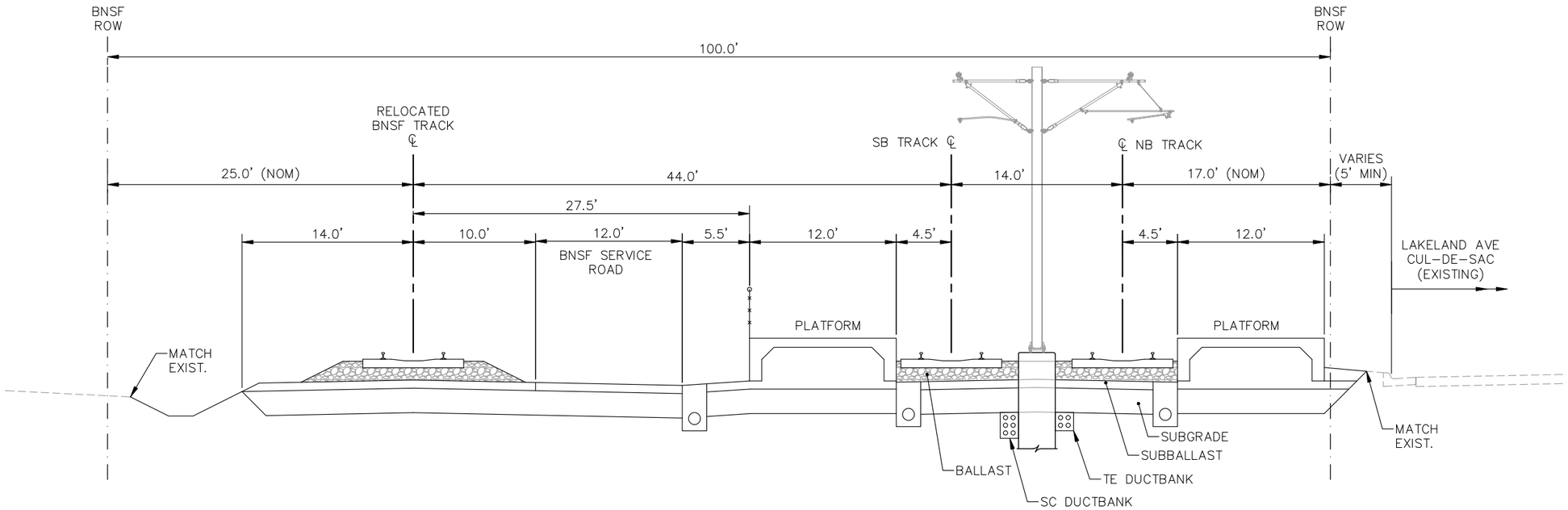
BOTTINEAU CORRIDOR
DRAFT EIS
CONCEPTUAL DESIGN

LRT ALIGNMENT C
SHEET 22 OF 29

TYPICAL SECTION C-10\

SHEET NUMBER
67 OF 122

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TYPICAL SECTION C-10A
ALIGNMENT C - BASS LAKE ROAD STATION

NOTE: STATIONING REPRESENTS THE SB LRT TRACK

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Bottineau Transitway
DRAFT ENVIRONMENTAL IMPACT STATEMENT

Hennepin

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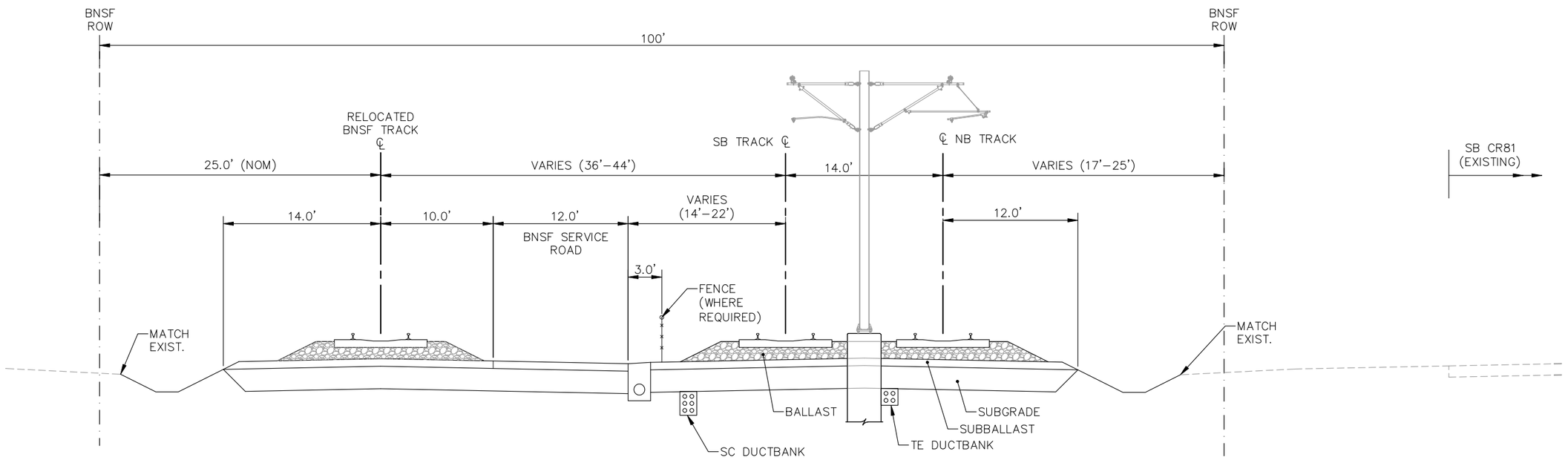
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BOTTINEAU CORRIDOR
DRAFT EIS
CONCEPTUAL DESIGN

LRT ALIGNMENT C
SHEET 23 OF 29

TYPICAL SECTION C-10A

SHEET NUMBER
68 OF 122



TYPICAL SECTION C-11
ALIGNMENT C - STA. 4151+00 TO 4256+86

NOTE: STATIONING REPRESENTS THE SB LRT TRACK

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PROJECT NO. 160528003.4.100

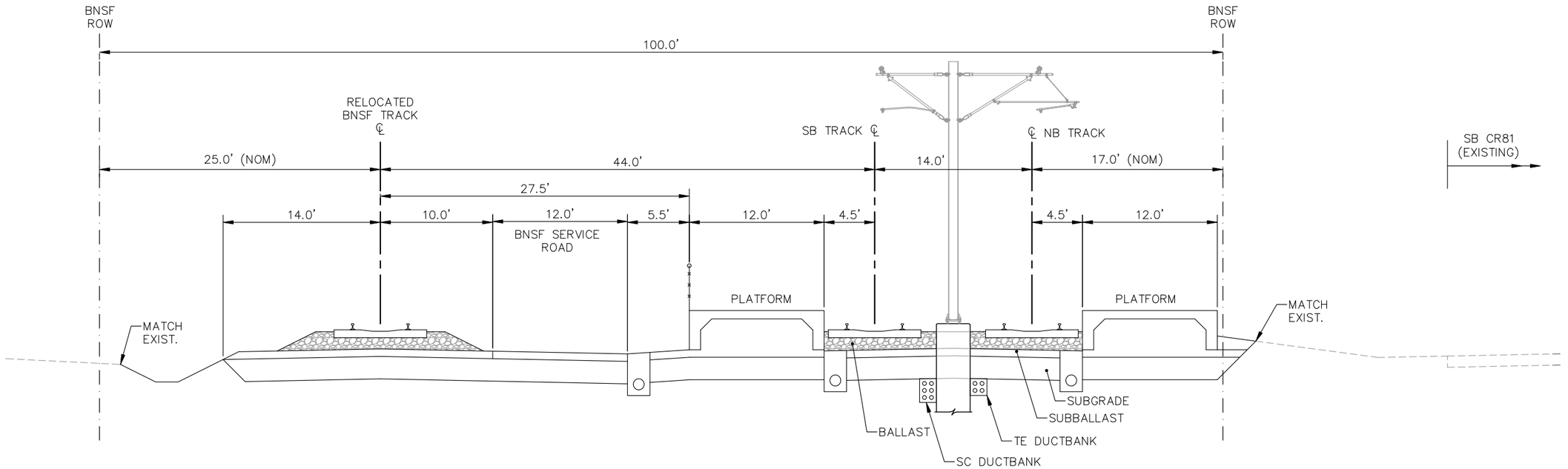
BOTTINEAU CORRIDOR
DRAFT EIS
CONCEPTUAL DESIGN

LRT ALIGNMENT C
SHEET 24 OF 29

TYPICAL SECTION C-11

SHEET NUMBER
69 OF 122

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SB CR81 (EXISTING)

TYPICAL SECTION C-11A
ALIGNMENT C - 63RD AVENUE STATION

NOTE: STATIONING REPRESENTS THE SB LRT TRACK

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Bottineau Transitway
DRAFT ENVIRONMENTAL IMPACT STATEMENT

Hennepin

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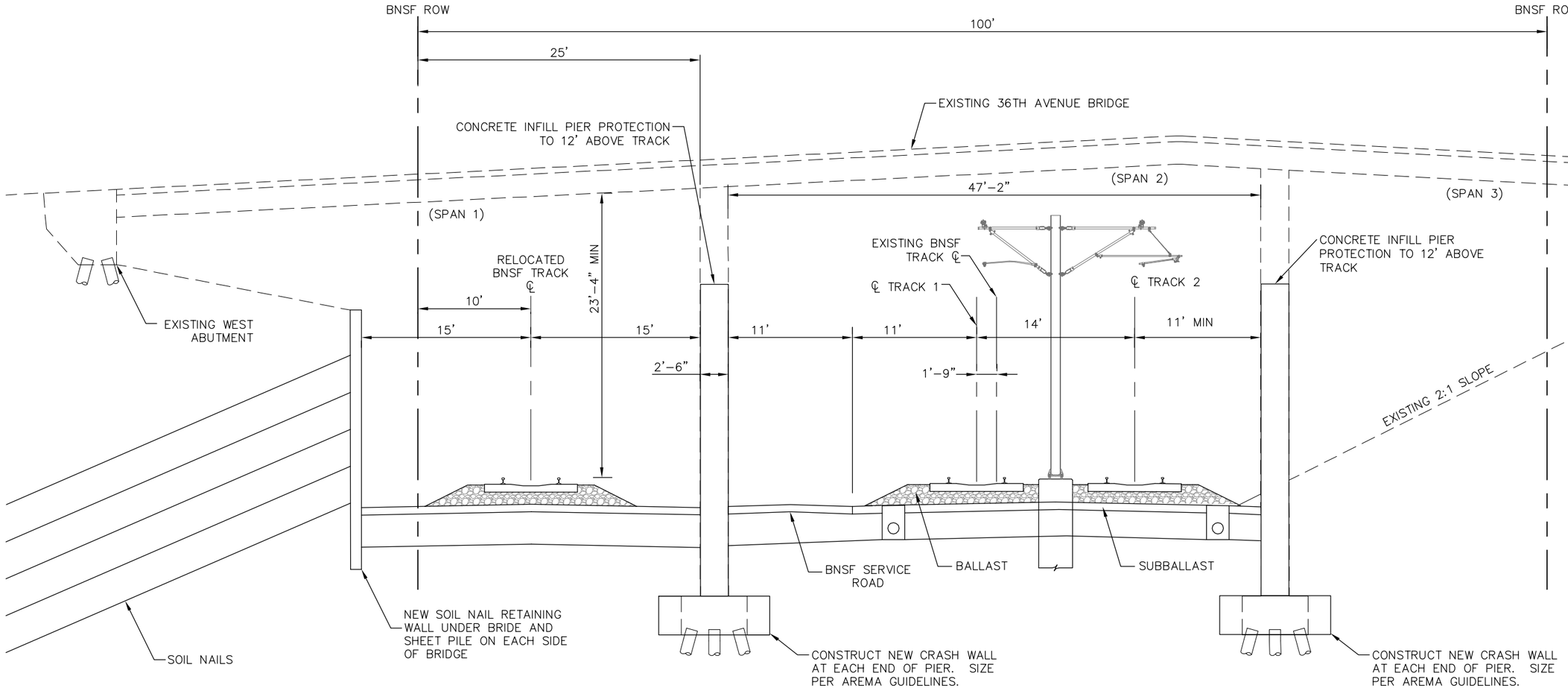
DRAWING NAME	BOTT-TYP C_11A.dwg
DESIGNED BY:	
DRAWN BY:	
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DATE:	6/29/12
PROJECT NO.	160528003.4.100

BOTTINEAU CORRIDOR
DRAFT EIS
CONCEPTUAL DESIGN

LRT ALIGNMENT C
SHEET 25 OF 29

TYPICAL SECTION C-11A

SHEET NUMBER
70 OF 122



TYPICAL SECTION C-12
36th Avenue Bridge
STA. 4009+00 TO 4009+70

NOTE: STATIONING REPRESENTS THE SB LRT TRACK

K:\TWC_Transit\HCRRA\BOTTINEAU_DEIS\CADD\PLAN_SHEETS\BOTT-TYP 36th Ave.dwg January 08, 2013 - 2:58pm

Bottineau Transitway
DRAFT ENVIRONMENTAL IMPACT STATEMENT

Hennepin

CONSULTANTS:

Kimley-Horn and Associates, Inc.
2550 UNIVERSITY AVE. WEST, SUITE 345N
ST. PAUL, MINNESOTA 55114
TEL. NO. (651) 645-4197
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DATE:	9/5/2012
PROJECT NO.	160528003.4.100

BOTTINEAU CORRIDOR ALTERNATIVES ANALYSIS CONCEPTUAL DESIGN

LRT ALIGNMENT C
SHEET 26 OF 30

TYPICAL SECTION C-12

SHEET NUMBER
71 OF 122

HIGH POINT ELEV: 884.04
HIGH POINT STA: 4067+57.23
PVI STA: 4069+07.00
PVI ELEV: 885.18
AD: 1.00%
K: 999.28
1000.00' VC

BVCS: 4064+07.00
BVCE: 883.43

EVCS: 4074+07.00
EVCE: 881.93

TOP OF RAIL
SB LRT

EXISTING GRADE

AERIAL STRUCTURE

℄ NB
TH 100

℄ SB
TH 100

18' MIN

VERTICAL SCALE
8
4
0

SCALE
0 20 40 80

916 912 908 904 900 896 892 888 884 880 876 872 868 864 860 856 852 848 844

4065 4066 4067 4068 4069 4070 4071 4072 4073 4074

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Bottineau Transitway
DRAFT ENVIRONMENTAL IMPACT STATEMENT

Hennepin

CONSULTANTS:

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BOTT-PRF-C-01.dwg

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DATE: 9/5/2012
PROJECT NO. 160528003.4.100

BOTTINEAU CORRIDOR
DRAFT EIS
CONCEPTUAL DESIGN

ALIGNMENT C
CRITICAL PROFILE
W. BROADWAY OVER TH 100
SHEET 26 OF 30

CRITICAL PROFILE

SHEET NUMBER
72 OF 122

LOW POINT ELEV: 877.50
LOW POINT STA: 4115+21.16
PVI STA: 4117+20.00
PVI ELEV: 877.48
AD: 4.26%
K: 93.84
400.00' VC

BVCS: 4115+20.00
BVCE: 877.50

EVCS: 4119+20.00
EVCE: 885.98

BVCS: 4122+20.00
BVCE: 898.73

TOP OF RAIL
SB LRT

4.25%

23'-4" MIN

℄ CP RAIL
STA. 4124+30

EXISTING GRADE

0 20 40 80
SCALE

8
4
0
VERTICAL SCALE

928 924 920 916 912 908 904 900 896 892 888 884 880 876 872 868 864 860 856

4115 4116 4117 4118 4119 4120 4121 4122 4123 4124

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Bottineau Transitway
DRAFT ENVIRONMENTAL IMPACT STATEMENT

Hennepin

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SRF Consulting Group, Inc.

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DATE: 9/5/2012
PROJECT NO. 160528003.4.100

BOTTINEAU CORRIDOR
DRAFT EIS
CONCEPTUAL DESIGN

ALIGNMENT C
CRITICAL PROFILE
CP RAIL CROSSING
SHEET 27 OF 30

CRITICAL PROFILE

SHEET NUMBER
73 OF 122

HIGH POINT ELEV: 906.89
HIGH POINT STA: 4126+03.95
PVI STA: 4125+70.00
PVI ELEV: 913.60
AD: 7.75%
K: 90.34
700.00' VC

EVCS: 4129+20.00
EVCE: 901.36

AERIAL STRUCTURE

-3.50%

TOP OF RAIL
SB LRT

BVCS: 4133+10.00
BVCE: 887.72

23'-4" CLEARANCE

℄ CP RAIL
STA. 4124+30

MATCHLINE SEE SHEET 2

MATCHLINE SEE SHEET 4

EXISTING GRADE

928 924 920 916 912 908 904 900 896 892 888 884 880 876 872 868 864 860 856

4125 4126 4127 4128 4129 4130 4131 4132 4133 4134

VERTICAL SCALE
8
4
0

0 20 40 80
SCALE

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Bottineau Transitway
DRAFT ENVIRONMENTAL IMPACT STATEMENT

Hennepin

CONSULTANTS:

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SRF Consulting Group, Inc.

LTK Engineering Services

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DRAWN BY:	
CHECKED BY:	
DATE:	9/5/2012
PROJECT NO.	160528003.4.100

BOTTINEAU CORRIDOR
DRAFT EIS
CONCEPTUAL DESIGN

ALIGNMENT C
CRITICAL PROFILE
CP RAIL CROSSING
SHEET 28 OF 30

CRITICAL PROFILE

SHEET NUMBER
74 OF 122

LOW POINT ELEV: 873.96
LOW POINT STA: 4140+96.28
PVI STA: 4137+10.00
PVI ELEV: 873.72
AD: 3.56%
K: 224.75
800.00' VC

EVCS: 4141+10.00
EVCE: 873.97

MATCHLINE SEE SHEET 3

-3.50%

TOP OF RAIL
SB LRT

EXISTING GRADE

928 924 920 916 912 908 904 900 896 892 888 884 880 876 872 868 864 860 856

4135 4136 4137 4138 4139 4140 4141 4142 4143 4144

0 20 40 80
SCALE

8 4 0
VERTICAL SCALE

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Bottineau Transitway
DRAFT ENVIRONMENTAL IMPACT STATEMENT

Hennepin

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LTK Engineering Services

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DESIGNED BY:
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CHECKED BY:
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PROJECT NO. 160528003.4.100

BOTTINEAU CORRIDOR
DRAFT EIS
CONCEPTUAL DESIGN

ALIGNMENT C
CRITICAL PROFILE
CP RAIL CROSSING
SHEET 29 OF 30

CRITICAL PROFILE

SHEET NUMBER
75 OF 122