PROJECT HISTORY

THE TRUNK HIGHWAY 3 (ROBERT STREET) PROJECT INCLUDES RECONSTRUCTING A MINOR ARTERIAL IN WEST SAINT PAUL (DAKOTA COUNTY) FROM HASKELL ST E TO ANNAPOLIS ST E AND THE CITY OF SAINT PAUL (RAMSEY COUNTY) FROM ANNAPOLIS ST E TO THE NORTHERN LIMITS OF ROBERT STREET BRIDGE OVER THE MISSISSIPPI RIVER (KELLOGG BOULEVARD). THE ROADWAY IS IDENTIFIED ON THE CITY OF SAINT PAUL TRANSPORTATION SAFETY ACTION PLAN AND WEST SIDE NEIGHBORHOOD SAFE ROUTES TO SCHOOL PLAN AS NEEDING SAFETY IMPROVEMENTS FOR PEDESTRIANS AND OVERLAPS WITH AN EQUITY PRIORITY AREA. SEVERAL SAFETY ISSUES AND RISK FACTORS ARE PRESENT ALONG THE CORRIDOR THAT CONTRIBUTE TO LESS-THAN-IDEAL SAFETY RESULTS INCLUDING VOLUME, SPEED, AND CROSSING DISTANCES.

LAYOUT HISTORY

SEPTEMBER 6, 2024 - DRAFT LAYOUT SUBMITTED FOR COMMENT.
JANUARY 15, 2025 - LAYOUT SUBMITTED TO GDSU AND LAC FOR COMMENT.
FEBRUARY/MARCH 2025 - LAYOUT REVISED BASED ON GDSU AND LAC SUBMITTAL FOR COMMENT.
APRIL 3, 2025 - LAYOUT SUBMITTED TO GDSU AND LAC FOR FORMAL REVIEW.
APRIL 2025 - LAYOUT REVISED BASED ON FORMAL REVIEW.
MAY 16, 2025 - LAYOUT SUBMITTED FOR SIGNATURE.

LAYOUT NOTES

1. MNDOT WILL ACQUIRE ALL R/W NEEDED FOR THIS PROJECT.
2. POTENTIAL IMPACTS DUE TO THE PUBLIC & PRIVATE UTILITY WORK ARE NOT REPRESENTED ON THIS LAYOUT.
3. A DESIGN SPEED OF 25 MPH WAS USED FOR T.H. 3.
4. A DESIGN SPEED OF 20 MPH WAS USED FOR THE TWO-WAY BIKE.
5. T.H. 3 IS NOT A "CURRENT AND BEST" OSOW ROUTE
6. T.H. 3 IS NOT A HOUSE MOVING ROUTE.
7. PEDESTRIAN ACCOMMODATIONS WILL MEET ADA/PROWAG REQUIREMENTS.
8. ACCESS REVISIONS ARE IN COORDINATION WITH LANDOWNERS AND HAVE NOT BEEN FINALIZED.
9. CARRIAGE WALK LOCATIONS WERE BASED ON EXISTNG WALKS AND PUBLIC ENGAGEMENT WITH HOME OWNERS.

DESIGN EXCEPTIONS

NONE

DESIGN VARIANCES

INTERSECTION SIGHT DISTANCE WAS COMPUTED USING A MODIFIED CALCULATION METHOD REFLECTING THE URBAN ROADWAY CONTEXT AND USED THE FOLLOWING CRITERIA: DESIGN DECISION SET A MINIMUM OF 8 FEET FROM THE TRAVEL LANE, 20 MPH DESIGN SPEED, AND SIGHT LINES DRAWN TO THE FAR EDGE OF VEHICLE (2 FOOT OFFSET FROM LANE LINE). AT SOME INTERSECTIONS, WHEN POSSIBLE, DESIGN DECISION DISTANCE FROM TRAVEL LANE WAS INCREASED AND/OR A DESIGN SPEED OF 25 MPH WAS USED.

LAYOUT No. 1B COPY No. 1
T.H. 3 (ROBERT STREET)
FROM HURLEY ST E TO KELLOGG BLVD
IN ST. PAUL & WEST ST. PAUL
Prepared 5/16/2025 Scale: HOR. 1 INCH = 50 FT
By KLJ

The alignment and grades shown on this map are tentative and subject to change without notice.	Staff Approval Date:	The traffic volumes shown are estimated for year 2023,2036,2046 MnDOT TRAFFIC,KLJ Prepared SEPTEMBER 2023

S.P. 6217-50 T.H. 3 T9AC116 PPMS Activity 6233
S.P. 6217-59 T.H. 3 PPMS Activity
S.P. T.H. PPMS Activity
Copy To: For:

DESIGN FILE: K:\Projects\State\MN\DOT\2202-00914_TH 3 RobertStPre-Design\CAD\Layout\d621750_100lo.dgn
DATE: 5/16/2025

Level 1 LAYOUT APPROVAL

Programmed Letting Date MARCH 26, 2027

Reviewed By ______ 20__
Metro District Preliminary Design Engineer

Reviewed By ______ 20__
Metro District Maintenance Operations Engineer

Reviewed By ______ 20__
Metro District Traffic Engineer

Reviewed By ______ 20__
State Geometrics Engineer

Approved By ______ 20__
Metro District Engineer

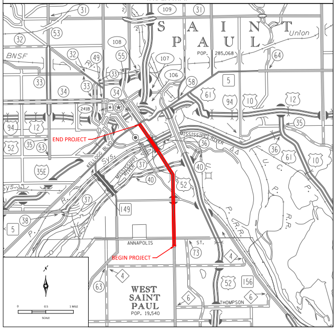
Approved By ______ 20__
State Design Engineer

I HEREBY CERTIFY THAT THIS LAYOUT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

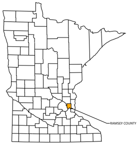
NAME: KEVIN N NELSON LIC. NO. 53496 DATE: 05/16 2025

DEPARTMENT OF TRANSPORTATION

INDEX MAP


SAINT PAUL
POP. 285,068
Union
BNSF
Ry.
KELLOGG BLVD
Sys.
MISSISSIPPI RIVER
R.
P.
ANNAPOLIS ST.
THOMPSON
U.
P.
C.R.R.
WEST SAINT PAUL
POP. 19,540
END PROJECT
BEGIN PROJECT
31
109
2
53
32
108
55
49
107
106
33
34
58
5
61
94
10
12
241B
35
52
36
35E
37
40
149
38
73
4
63
156
6
64
0
0.5
1 MILE
SCALE

Outline Map of Minnesota showing location of the County within the State.


RAMSEY COUNTY

LEGEND

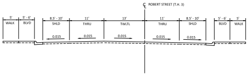
═	EXISTING ROADWAY	▨	CITY LIMITS
←	TRAFFIC DIRECTION	🟨	ROADWAY (INCLUDING TURN LANES)
- · · -	INPLACE R/W	🟦	SHOULDER
- - -	CONSTRUCTION LIMITS	🟪	TRUCK APRON
⊥⊥⊥	RETAINING WALL	🟧	BRIDGE/BRIDGE BARRIER
•—•	GUARDRAIL	🟪	SIDEPATH/S-U PATH/ADA RAMP
XXX	ENTRANCE CLOSURE	🟥	CONCRETE BARRIER
SRTS	SAFE ROUTES TO SCHOOL INTERSECTION	🟩	SEEDING
T	BRT STATION	🟦	DRIVEWAY
●	EXISTING SIGNAL	🟥	CONCRETE BLVD
●	PROPOSED SIGNAL	🟫	BIKE LANE
✳	WILL BE DETERMINED POST PROJECT VIA SPEED STUDY	⬜	CONCRETE CARRIAGE WALKS
		🟪	ENHANCED BUS STATION
		🟥	CONCRETE WALK (MEDIAN) AND CURB & GUTTER
		🟩	CONSTRUCTED BY OTHERS

SPECIFIC NOTES:

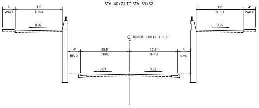
① PRIVATE RETAINING WALLS WILL BE EVALUATED IN FINAL DESIGN FOR REPLACEMENT BASED ON CONSTRUCTABILITY AND CONDITION. "TO REMAIN" AND "TO BE REPLACED" DESIGNATION ON THIS LAYOUT ARE PRELIMINARY AND SUBJECT TO CHANGE. CONSTRUCTION LIMITS ARE REFLECTIVE OF REPLACING THE RETAINING WALLS WHERE ANTICIPATED.

EXISTING TYPICAL SECTIONS

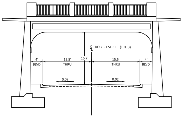
ROBERT STREET (T.H. 3)
ANNAPOLIS ST TO KING ST
STA. 10+00 TO STA. 40+71


ROBERT STREET (T.H. 3)
5' WALK
5' - 6' BLVD
8.5' - 10' SHLD
11' THRU
13' TWLTL
11' THRU
8.5' - 10' SHLD
5' - 6' BLVD
5' WALK
0.015

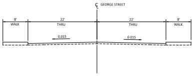
ROBERT STREET (T.H. 3)
KING ST TO CESAR CHAVEZ ST
STA. 40+71 TO STA. 53+82


4' WALK
15' THRU
0.02
ROBERT STREET (T.H. 3)
4' BLVD
15.5' THRU
15.5' THRU
4' BLVD
0.02
15' THRU
4' WALK

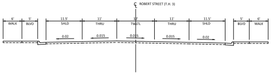
ROBERT STREET (T.H. 3)
(BR. NO. 90381)
STA. 46+91


ROBERT STREET (T.H. 3)
16.7'
4' BLVD
15.5' THRU
15.5' THRU
4' BLVD
0.02

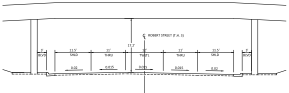
GEORGE ST
STA. 46+91


GEORGE STREET
8' WALK
22' THRU
22' THRU
8' WALK
0.015

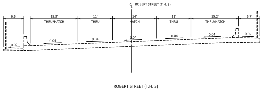
ROBERT STREET (T.H. 3)
CESAR CHAVEZ ST TO WOOD ST
STA. 53+82 TO STA. 68+58


ROBERT STREET (T.H. 3)
6' WALK
5' BLVD
11.5' SHLD
11' THRU
12' TWLTL
11' THRU
11.5' SHLD
5' BLVD
6' WALK
0.02
0.015

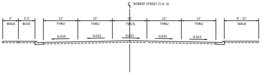
ROBERT STREET (T.H. 3)
(BR. NO. 91248)
STA. 62+61


ROBERT STREET (T.H. 3)
17.2'
3' BLVD
11.5' SHLD
11' THRU
12' TWLTL
11' THRU
11.5' SHLD
3' BLVD
0.02
0.015

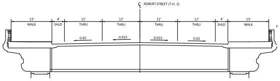
ROBERT STREET (T.H. 3)
WOOD ST TO PLATO BLVD
(BRIDGE NO. 62050)
STA. 68+58 TO STA. 79+72


ROBERT STREET (T.H. 3)
6.6'
15.3' THRU/HATCH
11' THRU
14' HATCH
11' THRU
15.2' THRU/HATCH
6.7'
0.02
0.04

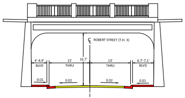
ROBERT STREET (T.H. 3)
PLATO BLVD TO FILLMORE AVE
STA. 79+72 TO STA. 92+11


ROBERT STREET (T.H. 3)
5' WALK
5.3' BLVD
11' THRU
11' THRU
11' TWLTL
11' THRU
11' THRU
6' - 11' WALK
0.015

ROBERT STREET (T.H. 3)
FILLMORE AVE TO KELLOGG BLVD
(BRIDGE NO. 9036)
STA. 92+11 TO STA. 112+20

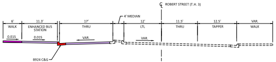

ROBERT STREET (T.H. 3)
13' WALK
4' SHLD
12' THRU
12' THRU
12' THRU
12' THRU
4' SHLD
13' WALK
0.02
0.015

ROBERT STREET (T.H. 3)
(BR. NO. 90381)
STA. 46+91

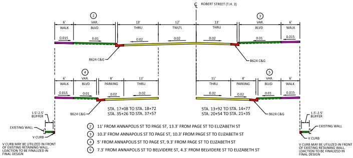

ROBERT STREET (T.H. 3)
16.7'
4'-4.9' BLVD
13' THRU
13' THRU
6.7'-7.1' BLVD
0.01
0.02

PROPOSED TYPICAL

ROBERT STREET (T.H. 3)
180' SOUTH OF E ANNAPOLIS ST TO E ANNAPOLIS ST
STA. 8+29 TO STA. 10+00


ROBERT STREET (T.H. 3)
4' MEDIAN
6' WALK
11.3' ENHANCED BUS STATION
17' THRU
12' LTL
11.5' THRU
12.5' TAPPER
VAR. WALK
0.015
VAR.
B924 C&G

ROBERT STREET (T.H. 3)
ANNAPOLIS ST TO E ELIZABETH ST
STA. 10+00 TO STA. 23+79
STA. 28+31 TO STA. 37+62

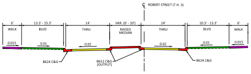

ROBERT STREET (T.H. 3)
②
③
6' WALK
VAR. BLVD
13' THRU
12' TWLTL
13' THRU
VAR. BLVD
6' WALK
0.015
0.01
0.02
B624 C&G
④
⑤
6' WALK
VAR. BLVD
8' PARKING
11' THRU
11' THRU
8' PARKING
VAR. BLVD
6' WALK
STA. 17+08 TO STA. 18+72
STA. 35+26 TO STA. 37+57
STA. 13+92 TO STA. 14+77
STA. 20+54 TO STA. 21+35
1.5'-2.5' BUFFER
EXISTING WALL
V CURB

V CURB MAY BE UTILIZED IN FRONT OF EXISTING RETAINING WALL. LOACTION TO BE FINALIZED IN FINAL DESIGN

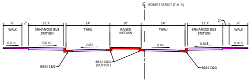
② 11' FROM ANNAPOLIS ST TO PAGE ST, 13.3' FROM PAGE ST TO ELIZABETH ST
③ 10.3' FROM ANNAPOLIS ST TO PAGE ST, 10.3' FROM PAGE ST TO ELIZABETH ST
④ 5' FROM ANNAPOLIS ST TO PAGE ST, 9.3' FROM PAGE ST TO ELIZABETH ST
⑤ 7.3' FROM ANNAPOLIS ST TO BELVIDERE ST, 4.3' FROM BELVIDERE ST TO ELIZABETH ST

V CURB MAY BE UTILIZED IN FRONT OF EXISTING RETAINING WALL. LOACTION TO BE FINALIZED IN FINAL DESIGN

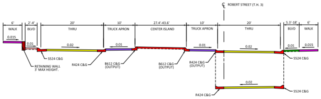
ROBERT STREET (T.H. 3)
ANNAPOLIS ST TO E ELIZABETH ST
MEDIAN LOCATIONS
E ANNAPOLIS ST - STA. 10+61 TO STA. 11+44 - RAISED MEDIAN 6'
PAGE ST E - STA. 28+62 TO STA. 29+09 - RAISED MEDIAN 10'
BELVIDERE ST E - STA. 18+84 TO STA. 19+84 - RAISED MEDIAN 10'
E MORTON ST - STA. 31+78 TO STA. 32+32 - RAISED MEDIAN VAR. (10' TYP. / 9' MIN.)


ROBERT STREET (T.H. 3)
6' WALK
13.3' - 15.3' BLVD
14' THRU
VAR. (6' - 10') RAISED MEDIAN
14' THRU
10.3' - 13.3' BLVD
6' WALK
0.015
0.01
0.02
B624 C&G
B612 C&G (OUTPUT)

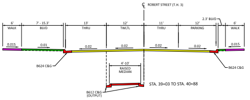
ROBERT STREET (T.H. 3)
ENHANCED BUS STATION
CURTICE ST E
STA. 23+79 TO STA. 24+61


ROBERT STREET (T.H. 3)
6' WALK
2'
11.3' ENHANCED BUS STATION
14' THRU
10' RAISED MEDIAN
14' THRU
11.3' ENHANCED BUS STATION
2'
6' WALK
0.015
0.02
B924 C&G
B612 C&G (OUTPUT)

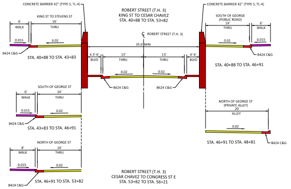
SIDNEY ST/STATE ST ROUNDABOUT
STA. 24+61 TO STA. 28+31


ROBERT STREET (T.H. 3)
6' WALK
2'-4' BLVD
20' THRU
10' TRUCK APRON
27.4'-43.6' CENTER ISLAND
10' TRUCK APRON
20' THRU
5.3'-18' BLVD
6' WALK
0.015
0.01
0.02
S524 C&G
RETAINING WALL 3' MAX HEIGHT.
R424 C&G
B612 C&G (OUTPUT)
R424 C&G (OUTPUT)

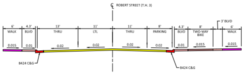
ROBERT STREET (T.H. 3)
E ELIZABETH ST TO KING ST E
STA. 37+62 TO STA. 39+03


ROBERT STREET (T.H. 3)
2.3' BLVD
6' WALK
7' - 15.3' BLVD
13' THRU
12' TWLTL
11' THRU
12' PARKING
6' WALK
0.015
0.01
0.02
B624 C&G
4'-10' RAISED MEDIAN
STA. 39+03 TO STA. 40+88
B612 C&G (OUTPUT)

ROBERT STREET (T.H. 3)
KING ST TO CESAR CHAVEZ
STA. 40+88 TO STA. 53+82

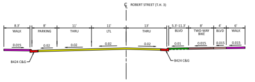

CONCRETE BARRIER 42" (TYPE S, TL-4)
KING ST TO STEVENS ST
6' WALK
16' THRU
0.015
0.02
B424 C&G
STA. 40+88 TO STA. 43+83
ROBERT STREET (T.H. 3)
35.6' MIN
4.3'-6' BLVD
13' THRU
13' THRU
4'-6' BLVD
B624 C&G
SOUTH OF GEORGE ST
6' WALK
14' THRU
STA. 43+83 TO STA. 46+91
NORTH OF GEORGE ST
8' WALK
14' THRU
STA. 46+91 TO STA. 53+82
SOUTH OF GEORGE (PUBLIC ROAD)
14' THRU
6' WALK
STA. 40+88 TO STA. 46+91
NORTH OF GEORGE ST (PRIVATE ALLEY)
20' ALLEY
STA. 46+91 TO STA. 48+81

ROBERT STREET (T.H. 3)
CESAR CHAVEZ TO CONGRESS ST E
STA. 53+82 TO STA. 56+21

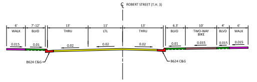

ROBERT STREET (T.H. 3)
3' BLVD
6' WALK
4.3' BLVD
13' THRU
11' LTL
11' THRU
8' PARKING
4.3' BLVD
8' TWO-WAY BIKE
6' WALK
0.015
0.01
0.02
B424 C&G

SECTIONS

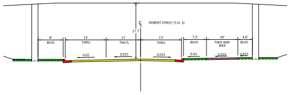
ROBERT STREET (T.H. 3)
CONGRESS ST E TO ISABEL ST
STA. 56+21 TO STA. 59+29


℄ ROBERT STREET (T.H. 3)
8.3' WALK
8' PARKING
11' THRU
11' LTL
13' THRU
5.3'-11.3' BLVD
8' TWO-WAY BIKE
4' BLVD
6' WALK
0.015
0.02
0.02
0.02
0.02
0.01
0.015
0.015
0.015
B424 C&G
B424 C&G

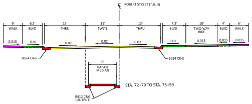
ROBERT STREET (T.H. 3)
ISABEL ST TO BRIDGE 91248
STA. 59+29 TO STA. 62+61


℄ ROBERT STREET (T.H. 3)
6' WALK
7'-12' BLVD
13' THRU
11' LTL
13' THRU
6.3' BLVD
10' TWO-WAY BIKE
4' BLVD
6' WALK
0.015
0.01
0.02
0.02
0.02
0.01
0.015
0.015
0.015
B624 C&G
B624 C&G

ROBERT STREET (T.H. 3)
(BR. NO. 91248)
STA. 62+61

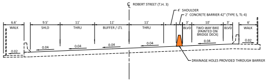

℄ ROBERT STREET (T.H. 3)
17.7'
8' BLVD
13' THRU
11' TWLTL
13' THRU
7.3' BLVD
10' TWO-WAY BIKE
4.6' BLVD
0.02
0.015
0.015
0.01
0.015
0.015

ROBERT STREET (T.H. 3)
BRIDGE NO. 91248 TO PLATO BLVD
STA. 62+61 TO STA. 68+58
STA. 75+59 TO STA. 79+72

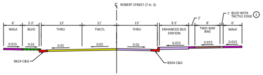

℄ ROBERT STREET (T.H. 3)
6' WALK
6.3' BLVD
13' THRU
11' TWLTL
13' THRU
7.3' BLVD
10' TWO-WAY BIKE
4' BLVD
6' WALK
0.015
0.01
0.02
0.02
0.02
0.01
0.015
0.015
0.015
B624 C&G
B624 C&G
9' RAISED MEDIAN
B412 C&G (OUTPUT)

STA. 72+79 TO STA. 75+59

ROBERT STREET (T.H. 3)
(BRIDGE NO. 62050)
STA. 68+58 TO STA. 72+79

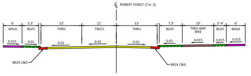

℄ ROBERT STREET (T.H. 3)
4' SHOULDER
2' CONCRETE BARRIER 42" (TYPE S, TL-4)
6.6' WALK
9.5' SHLD
11' THRU
11' BUFFER / LTL
11' THRU
3' BLVD
10' TWO-WAY BIKE (PAINTED ON BRIDGE DECK)
3' BLVD
6' WALK
0.02
0.04
0.04
0.04
0.04
0.04
0.02
DRAINAGE HOLES PROVIDED THROUGH BARRIER

ROBERT STREET (T.H. 3)
PLATO BLVD BUS STOP
STA. 81+41

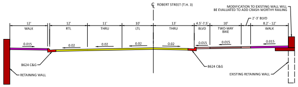

℄ ROBERT STREET (T.H. 3)
1' BLVD WITH TACTILE EDGE ①
2'
6' WALK
5.3' BLVD
13' THRU
11' TWLTL
13' THRU
9.3' ENHANCED BUS STATION
8' TWO-WAY BIKE
6' WALK
0.015
0.01
0.02
0.02
0.02
0.015
0.015
0.015
B624 C&G
B924 C&G

① PLACE 1' TACTILE EDGE IN 1' BLVD BETWEEN BIKE AND WALK. FOR DETAILS, SEE:
https://www.minneapolismn.gov/media/-www-content-assets/documents/Tactile-Edge-Evaluation-Summary.pdf

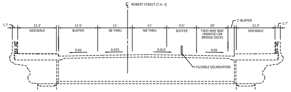
ROBERT STREET (T.H. 3)
PLATO BLVD TO FILLMORE AVE
STA. 79+72 TO STA. 92+11

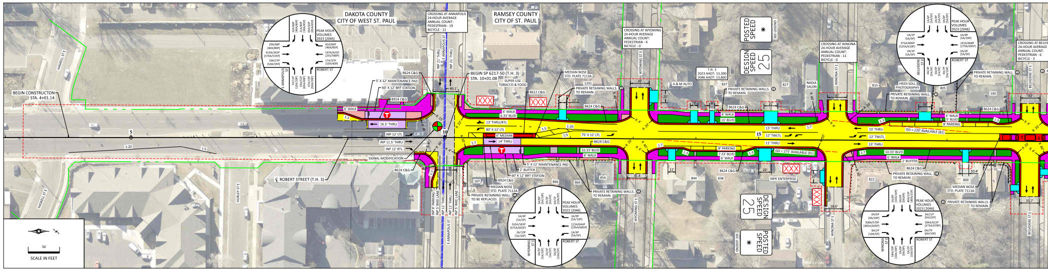

℄ ROBERT STREET (T.H. 3)
6' WALK
5.3' BLVD
13' THRU
11' TWLTL
13' THRU
7.3' BLVD
10' TWO-WAY BIKE
3'-4' BLVD
6' WALK
0.015
0.01
0.02
0.02
0.02
0.01
0.015
0.015
0.015
B624 C&G
B924 C&G

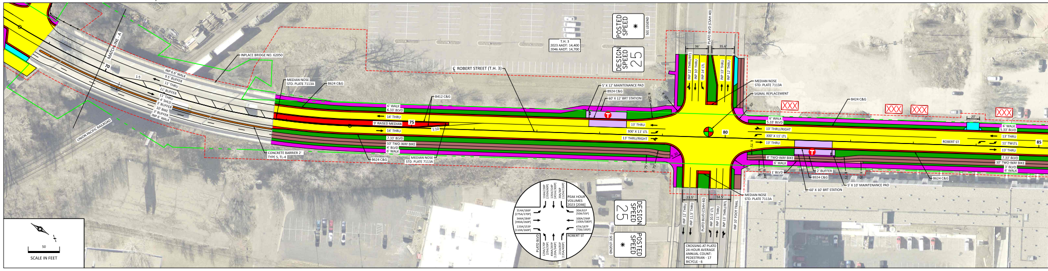
ROBERT STREET (T.H. 3)
FILLMORE AVE TO BRIDGE NO. 9036
STA. 92+11 TO STA. 94+93

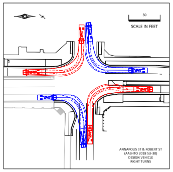

℄ ROBERT STREET (T.H. 3)
MODIFICATION TO EXISTING WALL WILL BE EVALUATED TO ADD CRASH-WORTHY RAILING
2'-3' BLVD
12' WALK
12' RTL
11' THRU
10' LTL
13' THRU
4.5'-7.5' BLVD
10' TWO-WAY BIKE
8.2' - 12' WALK
0.015
0.02
0.02
0.02
0.02
0.015
0.015
0.015
B624 C&G
B624 C&G
RETAINING WALL
EXISTING RETAINING WALL

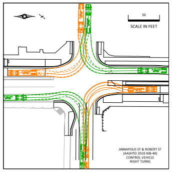
ROBERT STREET (T.H. 3)
BRIDGE NO. 9036 TO KELLOGG
STA. 94+93 TO STA. 112+20

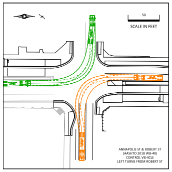

℄ ROBERT STREET (T.H. 3)
2' BUFFER
1.7'
12.3' SIDEWALK
12.5' BUFFER
11' SB THRU
11' NB THRU
9.5' BUFFER
10' TWO-WAY BIKE (PAINTED ON BRIDGE DECK)
12.3' SIDEWALK
1.7'
0.02
0.015
0.015
0.02
FLEXIBLE DELINEATORS

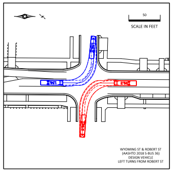

DAKOTA COUNTY
CITY OF WEST ST. PAUL
RAMSEY COUNTY
CITY OF ST. PAUL
CROSSING AT ANNAPOLIS
24-HOUR AVERAGE
ANNUAL COUNT:
PEDESTRIAN - 19
BICYCLE - 11
CROSSING AT WYOMING
24-HOUR AVERAGE
ANNUAL COUNT:
PEDESTRIAN - 4
BICYCLE - 0
CROSSING AT WINONA
24-HOUR AVERAGE
ANNUAL COUNT:
PEDESTRIAN - 11
BICYCLE - 0
CROSSING AT BELVIDERE
24-HOUR AVERAGE
ANNUAL COUNT:
PEDESTRIAN - 6
BICYCLE - 3
PEAK HOUR VOLUMES 2023 [2046]
E ANNAPOLIS ST
ROBERT ST
WYOMING ST E
WINONA ST E
BELVIDERE ST E
HASKELL ST E
HURLEY ST E
BEGIN CONSTRUCTON
STA. 4+01.14
BEGIN SP 6217-50 (T.H. 3)
STA. 10+01.08
℄ ROBERT STREET (T.H. 3)
5' X 12' MAINTENANCE PAD
60' X 12' BRT STATION
B924 C&G
B624 C&G
B612 C&G
6' WALK
16.5' THRU
INP 12' LTL
INP 11.5' THRU
INP 12' RTL
SIGNAL MODIFICATION
INP 21' THRU
INP 8' PARKING
INP 5' BIKE LANE
INP 11' THRU
40.1'
34'
SUPER USE TOBACCO & FOOD
6.33' BLVD
13' THRU/RTL
80' X 12' LTL
6' MEDIAN
14' THRU
2' BUFFER
MEDIAN NOSE STD. PLATE 7113A
PRIVATE RETAINING WALL. TO BE REPLACED.
PRIVATE RETAINING WALLS. TO REMAIN.
PRIVATE RETAINING WALL. TO REMAIN.
75' X 12' LTL
10.33' BLVD
7.33' BLVD
11' BLVD
5' BLVD
8' PARKING
13' THRU
12' TWLTL
11' THRU
ISD = 275' AVAILABLE (B1)
ISD = 220' AVAILABLE (B1)
T.H. 3
2023 AADT: 13,300
2046 AADT: 13,800
POSTED SPEED *
SEE LEGEND
DESIGN SPEED 25
A & M AUTO
NADIA SALON
HEIDI SOLL PHOTOGRAPHY
MFK ENTERPRISE
1201
1203
837
827
815
805
100
107
866
860
854
844
838
822
800
30'
31.4
28.6'
31'
31.7'
12.1'
20'
22'
12'
8'
10.4'
5
10
15
SCALE IN FEET
50

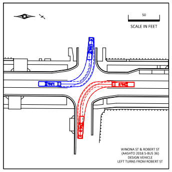

MATCHLINE - A
70
75
80
85
INPLACE BRIDGE NO. 62050
UNION PACIFIC RAILROAD
INP 6.6' WALK
9.5' BUFFER
11' THRU
11' BUFFER
11' THRU
4' SHLD
3' BUFFER
10' BIKE
3' BUFFER
INP 6' WALK
CONCRETE BARRIER 2' TYPE S, TL-4
MEDIAN NOSE STD. PLATE 7113A
B624 C&G
B412 C&G
B924 C&G
B424 C&G
6' WALK
6.33' BLVD
14' THRU
9' RAISED MEDIAN
7.33' BLVD
10' TWO-WAY BIKE
4' BLVD
6' WALK
℄ ROBERT STREET (T.H. 3)
T.H. 3
2023 AADT: 14,400
2046 AADT: 14,700
POSTED SPEED *
SEE LEGEND
DESIGN SPEED 25
PLATO BLVD (CSAH 40)
36'
35.6'
23.5'
34.5'
INP 12' THRU/RTL
INP 10' THRU
INP 14' LTL
INP 13' THRU
INP 12' THRU
INP 11.5' THRU
INP 10.5' LTL
INP 11' THRU
INP 13' THRU/RTL
INP 10' FOOT TRAIL
5' X 12' MAINTENANCE PAD
60' X 12' BRT STATION
SIGNAL REPLACEMENT
13' THRU
300' X 11' LTL
13' THRU/RIGHT
11' TWLTL
5.33' BLVD
8' TWO-WAY BIKE
1' BLVD
2' BUFFER
60' X 10' BRT STATION
5' X 10' MAINTENANCE PAD
3' BLVD
ROBERT ST
PEAK HOUR VOLUMES 2023 [2046]
CROSSING AT PLATO
24-HOUR AVERAGE
ANNUAL COUNT:
PEDESTRIAN - 17
BICYCLE - 6
SCALE IN FEET
50

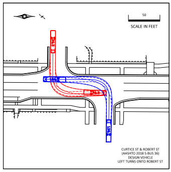

ANNAPOLIS ST & ROBERT ST
(AASHTO 2018 SU-30)
DESIGN VEHICLE
RIGHT TURNS

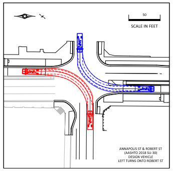

ANNAPOLIS ST & ROBERT ST
(AASHTO 2018 WB-40)
CONTROL VEHICLE
RIGHT TURNS

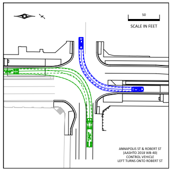

ANNAPOLIS ST & ROBERT ST
(AASHTO 2018 WB-40)
CONTROL VEHICLE
LEFT TURNS FROM ROBERT ST

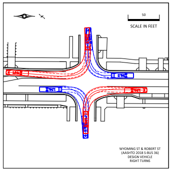

WYOMING ST & ROBERT ST
(AASHTO 2018 S-BUS 36)
DESIGN VEHICLE
LEFT TURNS FROM ROBERT ST

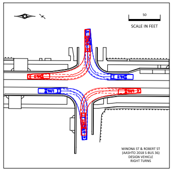

WINONA ST & ROBERT ST
(AASHTO 2018 S-BUS 36)
DESIGN VEHICLE
LEFT TURNS FROM ROBERT ST

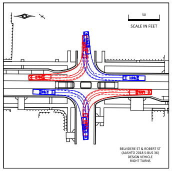

CURTICE ST & ROBERT ST
(AASHTO 2018 S-BUS 36)
DESIGN VEHICLE
LEFT TURNS ONTO ROBERT ST

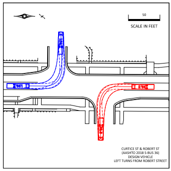

ANNAPOLIS ST & ROBERT ST
(AASHTO 2018 SU-30)
DESIGN VEHICLE
LEFT TURNS ONTO ROBERT ST

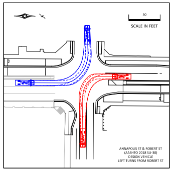

ANNAPOLIS ST & ROBERT ST
(AASHTO 2018 WB-40)
CONTROL VEHICLE
LEFT TURNS ONTO ROBERT ST

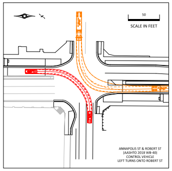

WYOMING ST & ROBERT ST
(AASHTO 2018 S-BUS 36)
DESIGN VEHICLE
RIGHT TURNS

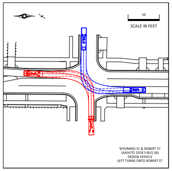

WINONA ST & ROBERT ST
(AASHTO 2018 S-BUS 36)
DESIGN VEHICLE
RIGHT TURNS

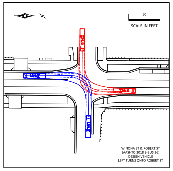

BELVIDERE ST & ROBERT ST
(AASHTO 2018 S-BUS 36)
DESIGN VEHICLE
RIGHT TURNS

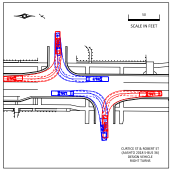

CURTICE ST & ROBERT ST
(AASHTO 2018 S-BUS 36)
DESIGN VEHICLE
LEFT TURNS FROM ROBERT STREET

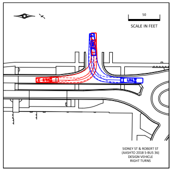

ANNAPOLIS ST & ROBERT ST
(AASHTO 2018 SU-30)
DESIGN VEHICLE
LEFT TURNS FROM ROBERT ST

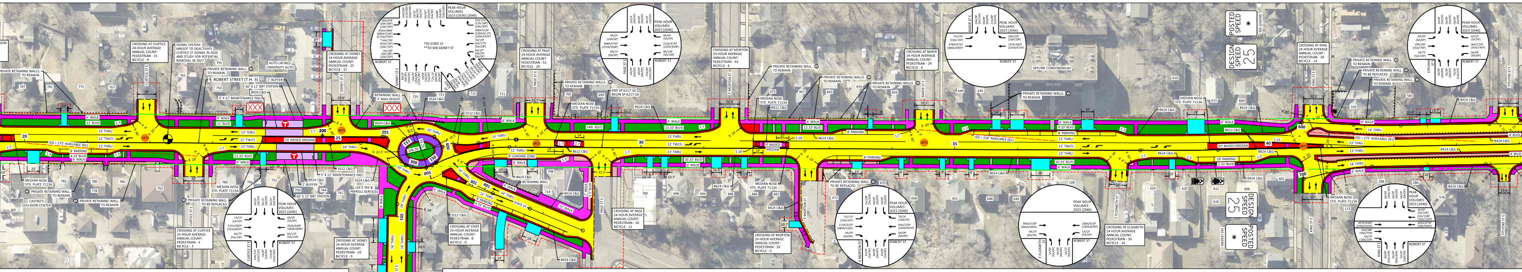

ANNAPOLIS ST & ROBERT ST
(AASHTO 2018 WB-40)
CONTROL VEHICLE
LEFT TURNS ONTO ROBERT ST

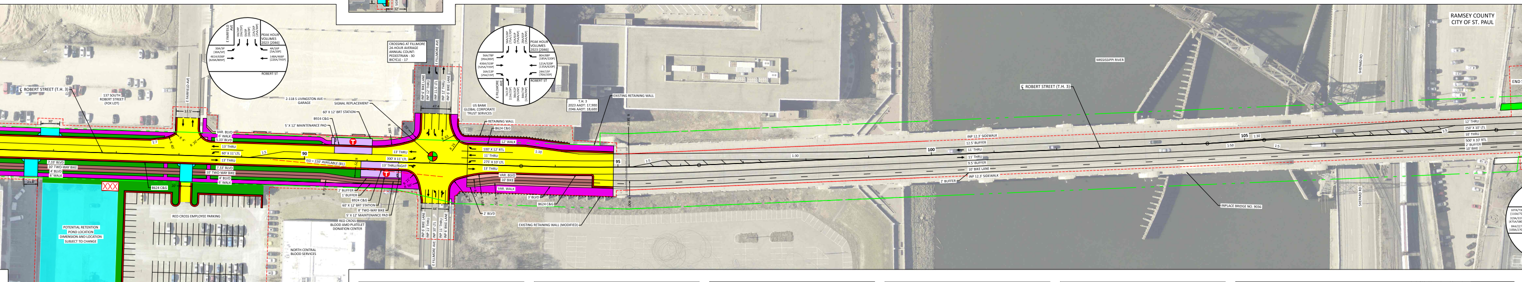

WYOMING ST & ROBERT ST
(AASHTO 2018 S-BUS 36)
DESIGN VEHICLE
LEFT TURNS ONTO ROBERT ST

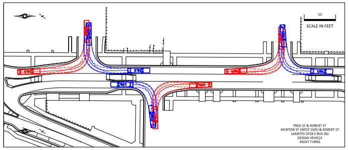

WINONA ST & ROBERT ST
(AASHTO 2018 S-BUS 36)
DESIGN VEHICLE
LEFT TURNS ONTO ROBERT ST

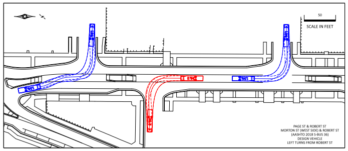

CURTICE ST & ROBERT ST
(AASHTO 2018 S-BUS 36)
DESIGN VEHICLE
RIGHT TURNS

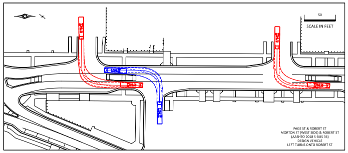

SIDNEY ST & ROBERT ST
(AASHTO 2018 S-BUS 36)
DESIGN VEHICLE
RIGHT TURNS

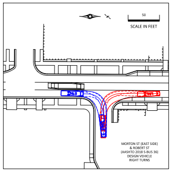

CROSSING AT CURTICE
24-HOUR AVERAGE
ANNUAL COUNT:
PEDESTRIAN - 15
BICYCLE - 9
SIGNAL SYSTEM:
MNDOT TO DEACTIVATE
CURTICE ST SIGNAL IN 2026
AND STUDY FOR POTENTIAL
REMOVAL IN 2027
AUTO LATINO/
UNIVERSITY AUTO
PRIVATE RETAINING WALLS. TO REMAIN.
PRIVATE RETAINING WALL. TO REMAIN.
℄ ROBERT STREET (T.H. 3)
2' BUFFER
60' X 12' BRT STATION
B924 C&G
5' X 12' MAINTENANCE PAD
CROSSING AT SIDNEY
24-HOUR AVERAGE
ANNUAL COUNT:
PEDESTRIAN - 25
BICYCLE - 37
PEAK HOUR
VOLUMES
2023 (2036) [2046]
*TO STATE ST
**TO WB SIDNEY ST
ROBERT ST
SIDNEY ST E
STATE ST
RETAINING WALL.
3' MAX HEIGHT.
S524 C&G
S512 C&G
R424 C&G
CROSSING AT PAGE
24-HOUR AVERAGE
ANNUAL COUNT:
PEDESTRIAN - 51
BICYCLE - 29
PEAK HOUR
VOLUMES
2023 [2046]
PAGE ST E
END SP 6217-50
BEGIN SP 6217-59
MEDIAN NOSE
STD. PLATE 7113A
B612 C&G
B624 C&G
CROSSING AT MORTON
24-HOUR AVERAGE
ANNUAL COUNT:
PEDESTRIAN - 63
BICYCLE - 6
E MORTON ST
CROSSING AT BAKER
24-HOUR AVERAGE
ANNUAL COUNT:
PEDESTRIAN - 29
BICYCLE - 6
BAKER ST E
SKYLINE CONDOMINIUM
POSTED
SPEED
✳
SEE LEGEND
DESIGN
SPEED
25
CROSSING AT KING
24-HOUR AVERAGE
ANNUAL COUNT:
PEDESTRIAN - 34
BICYCLE - 14
KING ST E
PRIVATE RETAINING WALL. TO BE REPLACED.
STEVENS ST E
6' WALK
11' BLVD
13' THRU
12' TWLTL
11' THRU
8' PARKING
4.33' BLVD
ISD = 275' AVAILABLE (B1)
10' RAISED MEDIAN
16' THRU
20' THRU
15' THRU
8' LOADING ZONE
12' THRU
14' THRU
4.33' BLVD
12' WALK
7' WALK
5.5' BLVD
VAR. BLVD
13.33' BLVD
10.33' BLVD
9.33' BLVD
9' RAISED MEDIAN
ISD = 220' AVAILABLE (B1)
10' PARKING
2.33' BLVD
4' BLVD
18' THRU
SRTS
20
25
30
35
40
200
201
300
400
401
500
501
600
700
MEDIAN NOSE
STD. PLATE 7113A
CASTRO'S
COLLISION CENTER
PRIVATE RETAINING WALL. TO BE REPLACED.
CROSSING AT CURTICE
24-HOUR AVERAGE
ANNUAL COUNT:
PEDESTRIAN - 4
BICYCLE - 3
CURTICE ST E
LEE'S TAX &
PAYROLL SERVICES
CROSSING AT SIDNEY
24-HOUR AVERAGE
ANNUAL COUNT:
PEDESTRIAN - 10
BICYCLE - 9
CROSSING AT STATE
24-HOUR AVERAGE
ANNUAL COUNT:
PEDESTRIAN - 8
BICYCLE - 0
RETAINING WALL
B424 C&G
CROSSING AT PAGE
24-HOUR AVERAGE
ANNUAL COUNT:
PEDESTRIAN - 10
BICYCLE - 11
CROSSING AT MORTON
24-HOUR AVERAGE
ANNUAL COUNT:
PEDESTRIAN - 10
BICYCLE - 0
E ELIZABETH ST
CROSSING AT ELIZABETH
24-HOUR AVERAGE
ANNUAL COUNT:
PEDESTRIAN - 36
BICYCLE - 14
ROBERT ST

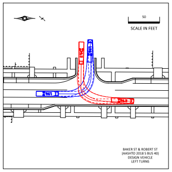

PEAK HOUR
VOLUMES
2023 [2046]
E FAIRFIELD AVE
ROBERT ST
℄ ROBERT STREET (T.H. 3)
137 SOUTH
ROBERT STREET
(FOX LOT)
2-118 S LIVINGSTON AVE
GARAGE
CROSSING AT FILLMORE
24-HOUR AVERAGE
ANNUAL COUNT:
PEDESTRIAN - 30
BICYCLE - 17
E FILLMORE AVE
SIGNAL REPLACEMENT
60' X 12' BRT STATION
B924 C&G
5' X 12' MAINTENANCE PAD
US BANK
GLOBAL CORPORATE
TRUST SERVICES
T.H. 3
2023 AADT: 17,900
2046 AADT: 18,600
EXISTING RETAINING WALL
RETAINING WALL
B624 C&G
12' WALK
100' X 12' RTL
11' THRU
275' X 10' LTL
13' THRU
VAR. BLVD
10' BIKE
VAR. WALK
3' BLVD
2' BLVD
EXISTING RETAINING WALL (MODIFIED)
13' THRU
60' X 11' LTL
300' X 11' LTL
13' THRU/RIGHT
ISD = 220' AVAILABLE (B1)
7.33' BLVD
10' TWO-WAY BIKE
4' BLVD
6' WALK
5.33' BLVD
2' BUFFER
1' BUFFER
8' TWO-WAY BIKE
INP 6' BIKE LANE
INP 12' THRU
INP 11.5' LTL
INP 11' THRU
INP 10' LTL
90
95
POTENTIAL RETENTION
POND LOCATION
DIMENSION AND LOCATION
SUBJECT TO CHANGE
RED CROSS EMPLOYEE PARKING
RED CROSS
BLOOD AMD PLATELET
DONATION CENTER
NORTH CENTRAL
BLOOD SERVICES
MISSISSIPPI RIVER
℄ ROBERT STREET (T.H. 3)
INP 12.3' SIDEWALK
12.5' BUFFER
11' THRU
9.5' BUFFER
10' BIKE LANE
2' BUFFER
100
105
12' THRU
250' X 10' LTL
10' THRU
500' X 10' RTL
10' BIKE
INPLACE BRIDGE NO. 9036
SHEPARD RD
RAMSEY COUNTY
CITY OF ST. PAUL

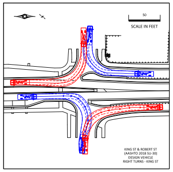

PAGE ST & ROBERT ST
MORTON ST (WEST SIDE) & ROBERT ST
(AASHTO 2018 S-BUS 36)
DESIGN VEHICLE
RIGHT TURNS

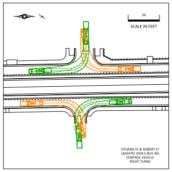

PAGE ST & ROBERT ST
MORTON ST (WEST SIDE) & ROBERT ST
(AASHTO 2018 S-BUS 36)
DESIGN VEHICLE
LEFT TURNS FROM ROBERT ST

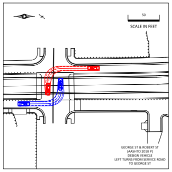

PAGE ST & ROBERT ST
MORTON ST (WEST SIDE) & ROBERT ST
(AASHTO 2018 S-BUS 36)
DESIGN VEHICLE
LEFT TURNS ONTO ROBERT ST

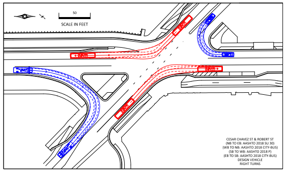

MORTON ST (EAST SIDE)
& ROBERT ST
(AASHTO 2018 S-BUS 36)
DESIGN VEHICLE
RIGHT TURNS

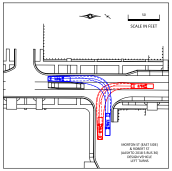

BAKER ST & ROBERT ST
(AASHTO 2018 S BUS 40)
DESIGN VEHICLE
LEFT TURNS

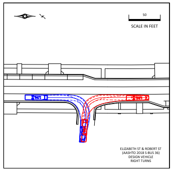

KING ST & ROBERT ST
(AASHTO 2018 SU-30)
DESIGN VEHICLE
RIGHT TURNS - KING ST

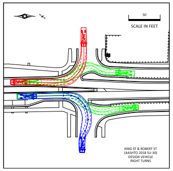

STEVENS ST & ROBERT ST
(AASHTO 2018 S-BUS-36)
CONTROL VEHICLE
RIGHT TURNS

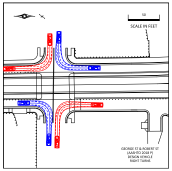

GEORGE ST & ROBERT ST
(AASHTO 2018 P)
DESIGN VEHICLE
LEFT TURNS FROM SERVICE ROAD
TO GEORGE ST

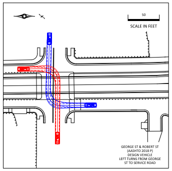

CESAR CHAVEZ ST & ROBERT ST
(NB TO EB: AASHTO 2018 SU 30)
(WB TO NB: AASHTO 2018 CITY-BUS)
(SB TO WB: AASHTO 2018 P)
(EB TO SB: AASHTO 2018 CITY-BUS)
DESIGN VEHICLE
RIGHT TURNS

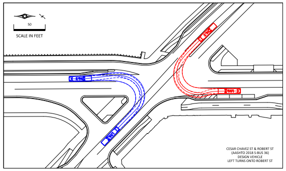

MORTON ST (EAST SIDE)
& ROBERT ST
(AASHTO 2018 S-BUS 36)
DESIGN VEHICLE
LEFT TURNS

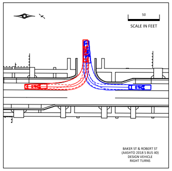

ELIZABETH ST & ROBERT ST
(AASHTO 2018 S-BUS 36)
DESIGN VEHICLE
RIGHT TURNS

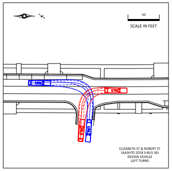

KING ST & ROBERT ST
(AASHTO 2018 SU-30)
DESIGN VEHICLE
RIGHT TURNS

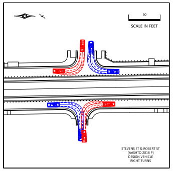

GEORGE ST & ROBERT ST
(AASHTO 2018 P)
DESIGN VEHICLE
RIGHT TURNS

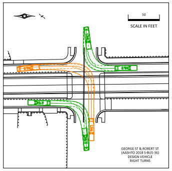

GEORGE ST & ROBERT ST
(AASHTO 2018 P)
DESIGN VEHICLE
LEFT TURNS FROM GEORGE
ST TO SERVICE ROAD

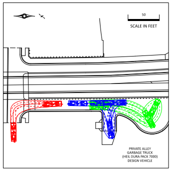

CESAR CHAVEZ ST & ROBERT ST
(AASHTO 2018 S-BUS 36)
DESIGN VEHICLE
LEFT TURNS ONTO ROBERT ST

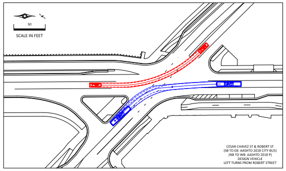

BAKER ST & ROBERT ST
(AASHTO 2018 S BUS 40)
DESIGN VEHICLE
RIGHT TURNS

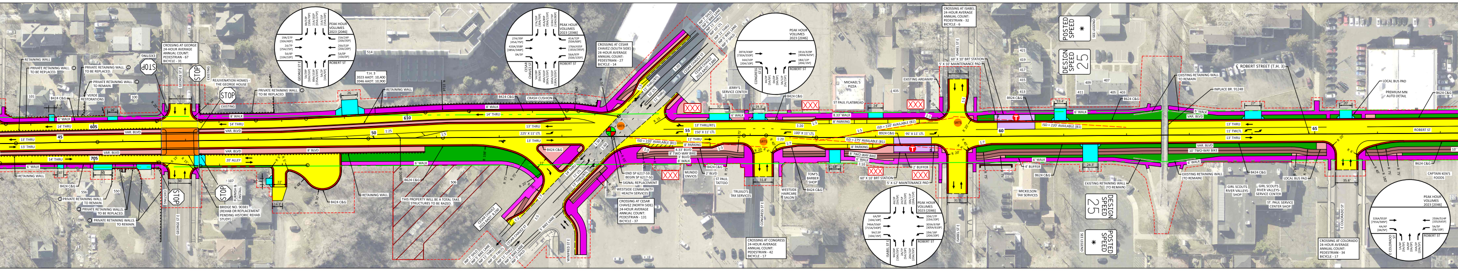

ELIZABETH ST & ROBERT ST
(AASHTO 2018 S-BUS 36)
DESIGN VEHICLE
LEFT TURNS

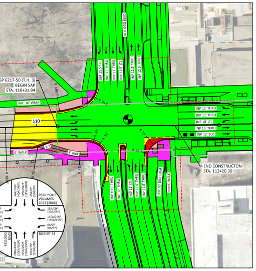

STEVENS ST & ROBERT ST
(AASHTO 2018 P)
DESIGN VEHICLE
RIGHT TURNS


GEORGE ST & ROBERT ST
(AASHTO 2018 S-BUS-36)
DESIGN VEHICLE
RIGHT TURNS


PRIVATE ALLEY
GARBAGE TRUCK
(HEIL DURA PACK 7000)
DESIGN VEHICLE


CESAR CHAVEZ ST & ROBERT ST
(SB TO EB: AASHTO 2018 CITY-BUS)
(NB TO WB: AASHTO 2018 P)
DESIGN VEHICLE
LEFT TURNS FROM ROBERT STREET

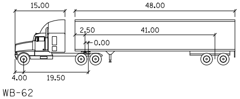

RETAINING WALL
PRIVATE RETAINING WALL. ① TO BE REPLACED.
PRIVATE RETAINING WALL. ① TO REMAIN.
VERDE RESTORATIONS
101
100
B424 C&G
6' WALK
14' THRU
605
VAR. BLVD
45
13' THRU
705
CROSSING AT GEORGE 24-HOUR AVERAGE ANNUAL COUNT: PEDESTRIAN - 67 BICYCLE - 31
STOP
EXISTING
GEORGE ST E
35.8'
36'
REJUVENATION HOMES - THE GEORGE HOUSE
8' WALK
20' ALLEY
107
FURNISH & INSTALL
BRIDGE NO. 90381 (REHAB OR REPLACEMENT PENDING HISTORIC REHAB STUDY)
556
550
PRIVATE RETAINING WALLS. TO BE REPLACED.
PRIVATE RETAINING WALLS. TO REMAIN.
PEAK HOUR VOLUMES 2023 [2046]
ROBERT ST
T.H. 3 2023 AADT: 10,400 2046 AADT: 10,900
514
610
50
8' BLVD
6' WALK
16.1'
22'
RETAINING WALL
THIS PROPERTY WILL BE A TOTAL TAKE. STRUCTURES TO BE RAZED.
506
B624 C&G
CESAR CHAVEZ 2023 AADT: 8,190
CESAR CHAVEZ 2023 AADT: 7,890
INP 7' SHLD
INP 5' BIKE LANE
INP 11' THRU
INP 10' LTL
INP 10' TWLTL
CESAR CHAVEZ ST
CRASH CUSHION
CROSSING AT CESAR CHAVEZ (SOUTH SIDE) 24-HOUR AVERAGE ANNUAL COUNT: PEDESTRIAN - 27 BICYCLE - 14
CESAR CHAVEZ ST
13' THRU
225' X 11' LTL
11' THRU/RTL
13' THRU/RTL
150' X 11' LTL
11' THRU
55
SRTS
ISD = 220' AVAILABLE (B1)
8' PARKING
4.33' BLVD
8' TWO-WAY BIKE
3' BLVD
8' WALK
2' BLVD
END SP 6217-59
BEGIN SP 6217-50
SIGNAL REPLACEMENT
WESTSIDE COMMUNITY HEALTH SERVICES
CROSSING AT CESAR CHAVEZ (NORTH SIDE) 24-HOUR AVERAGE ANNUAL COUNT: PEDESTRIAN - 131 BICYCLE - 37
5' BIKE LANE
WINIFRED ST E
MUNDO ENVIOS
ST PAUL TATTOO
TRUJILO'S TAX SERVICES
JERRY'S SERVICE CENTER
CONGRESS ST E
31.8'
CROSSING AT CONGRESS 24-HOUR AVERAGE ANNUAL COUNT: PEDESTRIAN - 42 BICYCLE - 17
MICHAEL'S PIZZA
ST PAUL FLATBREAD
435
8.33' WALK
100' X 11' LTL
ISD = 275' AVAILABLE (B1)
95' X 11' LTL
B924 C&G
TOM'S BARBER SHOP
WESTSIDE HAIRCARE SALON
2' BUFFER
60' X 10' BRT STATION
5' X 12' MAINTENANCE PAD
EXISTING AREAWAY
CROSSING AT ISABEL 24-HOUR AVERAGE ANNUAL COUNT: PEDESTRIAN - 32 BICYCLE - 6
5' X 10' MAINTENANCE PAD
ISABEL ST E
32.1
31.7
60
POSTED SPEED *
SEE LEGEND
DESIGN SPEED 25
421
419
417
415
413
409
407
411
405
403
19.4'
24.3'
4' BUFFER
MICKELSON TAX SERVICES
EXISTING RETAINING WALL TO REMAIN
INPLACE BR. 91248
℄ ROBERT STREET (T.H. 3)
13' THRU
11' TWLTL
65
10' TWO-WAY BIKE
GIRL SCOUTS RIVER VALLEYS SHOP
GIRL SCOUTS RIVER VALLEYS SERVICE CENTER
ST. PAUL SERVICE CENTER SHOP
LOCAL BUS PAD
PREMIUM MN AUTO DETAIL
27'
20'
35.6'
E COLORADO ST
CAPTAIN KEN'S FOODS
CROSSING AT COLORADO 24-HOUR AVERAGE ANNUAL COUNT: PEDESTRIAN - 34 BICYCLE - 17


KELLOGG BLVD
SP 6217-50 (T.H. 3) BEGIN SAP STA. 110+31.84
INP. 10' WALK
110
6' WALK
8' BIKE
INP 11.5' LTL
INP 11' THRU
INP 12.5' THRU
INP 12' THRU
INP 11' THRU
INP 10' LTL
INP 10' THRU
INP 12' BUS
INP 10.5' THRU
INP 12' THRU
INP 11' LTL
INP 10' BIKE LANE
INP 8' WALK
END CONSTRUCTON STA. 112+20.30
PEAK HOUR VOLUMES 2023 [2046]
ROBERT ST

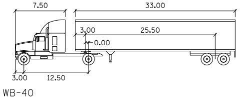
LEGEND			
═	EXISTING ROADWAY	▨	CITY LIMITS
←	TRAFFIC DIRECTION	🟨	ROADWAY (INCLUDING TURN LANES)
─··	INPLACE R/W	🟦	SHOULDER
- - -	CONSTRUCTION LIMITS	🟪	TRUCK APRON
⋏⋏⋏	RETAINING WALL	🟧	BRIDGE/BRIDGE BARRIER
•─•	GUARDRAIL	🟪	SIDEPATH/S-U PATH/ADA RAMP
XXX	ENTRANCE CLOSURE	🟥	CONCRETE BARRIER
SRTS	SAFE ROUTES TO SCHOOL INTERSECTION	🟩	SEEDING
T	BRT STATION	🟦	DRIVEWAY
◐	EXISTING SIGNAL	🟥	CONCRETE BLVD
⊕	PROPOSED SIGNAL	🟫	BIKE LANE
*	WILL BE DETERMINED POST PROJECT VIA SPEED STUDY	⬜	CONCRETE CARRIAGE WALKS
		🟪	ENHANCED BUS STATION
		🟥	CONCRETE WALK (MEDIAN) AND CURB & GUTTER
		🟩	CONSTRUCTED BY OTHERS

SPECIFIC NOTES:

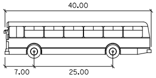
① PRIVATE RETAINING WALLS WILL BE EVALUATED IN FINAL DESIGN FOR REPLACEMENT BASED ON CONSTRUCTABILITY AND CONDITION. "TO REMAIN" AND "TO BE REPLACED DESIGNATION ON THIS LAYOUT ARE PRELIMINARY AND SUBJECT TO CHANGE. CONSTRUCTION LIMITS ARE REFLECTIVE OF REPLACING THE RETAINING WALLS WHERE ANTICIPATED.


15.00
48.00
2.50
41.00
0.00
4.00
19.50

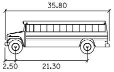
WB-62


7.50
33.00
3.00
25.50
0.00
3.00
12.50

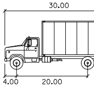
WB-40


40.00
7.00
25.00

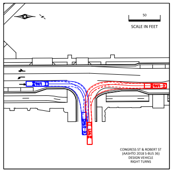
CITY-BUS


35.80
2.50
21.30

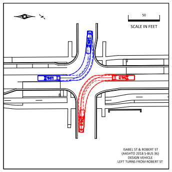
S-BUS-36


30.00
4.00
20.00

SU-30


50
SCALE IN FEET

CONGRESS ST & ROBERT ST
(AASHTO 2018 S-BUS 36)
DESIGN VEHICLE
RIGHT TURNS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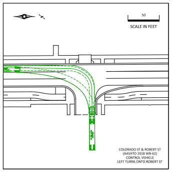
SCALE IN FEET

ISABEL ST & ROBERT ST
(AASHTO 2018 S-BUS 36)
DESIGN VEHICLE
LEFT TURNS FROM ROBERT ST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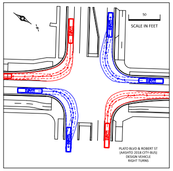
SCALE IN FEET

COLORADO ST & ROBERT ST
(AASHTO 2018 WB-62)
CONTROL VEHICLE
LEFT TURNS ONTO ROBERT ST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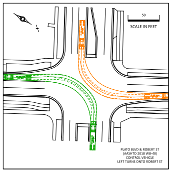
SCALE IN FEET

PLATO BLVD & ROBERT ST
(AASHTO 2018 CITY-BUS)
DESIGN VEHICLE
RIGHT TURNS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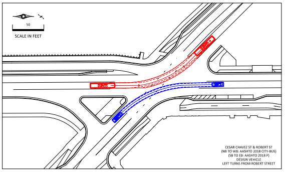
SCALE IN FEET

PLATO BLVD & ROBERT ST
(AASHTO 2018 WB-40)
CONTROL VEHICLE
LEFT TURNS ONTO ROBERT ST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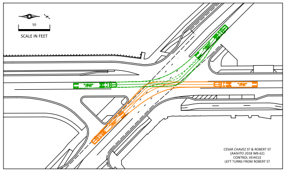
SCALE IN FEET

CESAR CHAVEZ ST & ROBERT ST
(NB TO WB: AASHTO 2018 CITY-BUS)
(SB TO EB: AASHTO 2018 P)
DESIGN VEHICLE
LEFT TURNS FROM ROBERT STREET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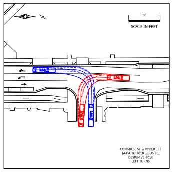
SCALE IN FEET

CESAR CHAVEZ ST & ROBERT ST
(AASHTO 2018 WB-62)
CONTROL VEHICLE
LEFT TURNS FROM ROBERT ST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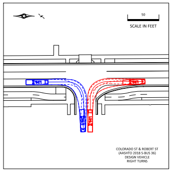
SCALE IN FEET

CONGRESS ST & ROBERT ST
(AASHTO 2018 S-BUS 36)
DESIGN VEHICLE
LEFT TURNS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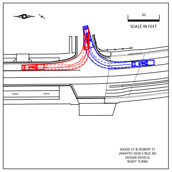
SCALE IN FEET

COLORADO ST & ROBERT ST
(AASHTO 2018 S-BUS 36)
DESIGN VEHICLE
RIGHT TURNS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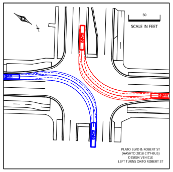
SCALE IN FEET

WOOD ST & ROBERT ST
(AASHTO 2018 S-BUS 36)
DESIGN VEHICLE
RIGHT TURNS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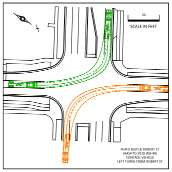
SCALE IN FEET

PLATO BLVD & ROBERT ST
(AASHTO 2018 CITY-BUS)
DESIGN VEHICLE
LEFT TURNS ONTO ROBERT ST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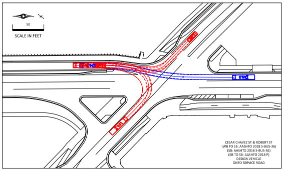
SCALE IN FEET

PLATO BLVD & ROBERT ST
(AASHTO 2018 WB-40)
CONTROL VEHICLE
LEFT TURNS FROM ROBERT ST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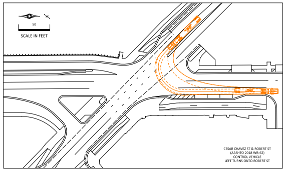
SCALE IN FEET

CESAR CHAVEZ ST & ROBERT ST
(WB TO SB: AASHTO 2018 S-BUS-36)
(SB: AASHTO 2018 S-BUS-36)
(EB TO SB: AASHTO 2018 P)
DESIGN VEHICLE
ONTO SERVICE ROAD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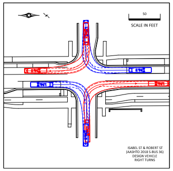
SCALE IN FEET

CESAR CHAVEZ ST & ROBERT ST
(AASHTO 2018 WB-62)
CONTROL VEHICLE
LEFT TURNS ONTO ROBERT ST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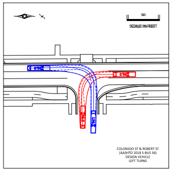
SCALE IN FEET

ISABEL ST & ROBERT ST
(AASHTO 2018 S-BUS 36)
DESIGN VEHICLE
RIGHT TURNS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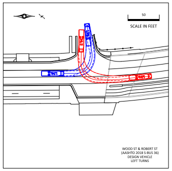
SCALE IN FEET

COLORADO ST & ROBERT ST
(AASHTO 2018 S-BUS 36)
DESIGN VEHICLE
LEFT TURNS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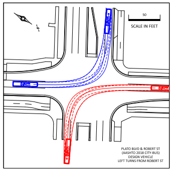
SCALE IN FEET

WOOD ST & ROBERT ST
(AASHTO 2018 S-BUS 36)
DESIGN VEHICLE
LEFT TURNS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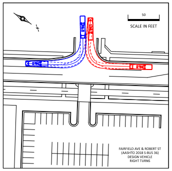
SCALE IN FEET

PLATO BLVD & ROBERT ST
(AASHTO 2018 CITY-BUS)
DESIGN VEHICLE
LEFT TURNS FROM ROBERT ST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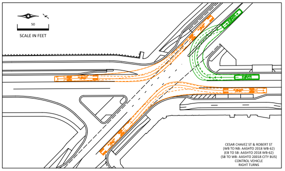
SCALE IN FEET

FAIRFIELD AVE & ROBERT ST
(AASHTO 2018 S-BUS 36)
DESIGN VEHICLE
RIGHT TURNS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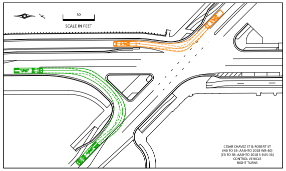
SCALE IN FEET

CESAR CHAVEZ ST & ROBERT ST
(WB TO NB: AASHTO 2018 WB-62)
(EB TO SB: AASHTO 2018 WB-62)
(SB TO WB: AASHTO 20018 CITY BUS)
CONTROL VEHICLE
RIGHT TURNS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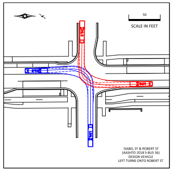
SCALE IN FEET

CESAR CHAVEZ ST & ROBERT ST
(NB TO EB: AASHTO 2018 WB-40)
(EB TO SB: AASHTO 2018 S-BUS-36)
CONTROL VEHICLE
RIGHT TURNS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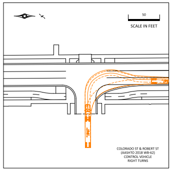
SCALE IN FEET

ISABEL ST & ROBERT ST
(AASHTO 2018 S-BUS 36)
DESIGN VEHICLE
LEFT TURNS ONTO ROBERT ST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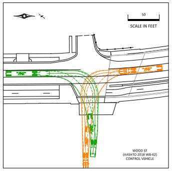
SCALE IN FEET

COLORADO ST & ROBERT ST
(AASHTO 2018 WB-62)
CONTROL VEHICLE
RIGHT TURNS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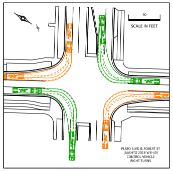
SCALE IN FEET

WOOD ST
(AASHTO 2018 WB-62)
CONTROL VEHICLE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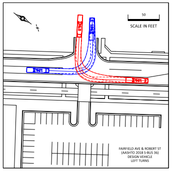
SCALE IN FEET

PLATO BLVD & ROBERT ST
(AASHTO 2018 WB-40)
CONTROL VEHICLE
RIGHT TURNS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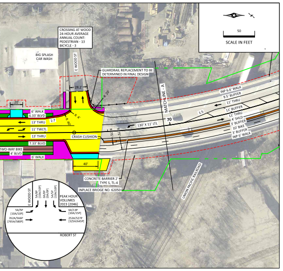
SCALE IN FEET

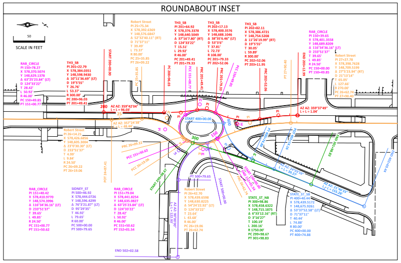
FAIRFIELD AVE & ROBERT ST
(AASHTO 2018 S-BUS 36)
DESIGN VEHICLE
LEFT TURNS


CROSSING AT WOOD
24 HOUR AVERAGE ANNUAL COUNT:
PEDESTRIAN - 13
BICYCLE - 3
BIG SPLASH CAR WASH
GUARDRAIL REPLACEMENT TO BE DETERMINED IN FINAL DESIGN
MATCHLINE - A
CRASH CUSHION
CONCRETE BARRIER 2' TYPE 1, TL-4
INPLACE BRIDGE NO. 62050
UNION PACIFIC RAILROAD
PEAK HOUR VOLUMES 2023 (2046)
ROBERT ST
50
SCALE IN FEET

CESAR CHAVEZ ST
WABASHA ST
ISABEL ST
50
SCALE IN FEET

WABASHA ST & CESAR CHAVEZ ST INTERSECTION MAY REQUIRE TEMPORARY CHANGES TO OR ADDITIONAL TRAFFIC CONTROL DEVICES DURING THE ROBERT ST PROJECT'S CONSTRUCTION.

ROUNDABOUT INSET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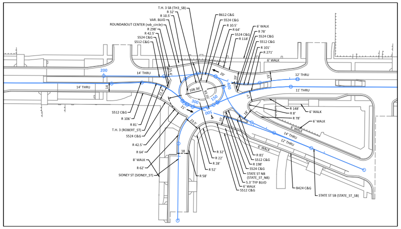
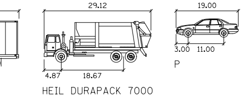
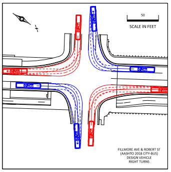
SCALE IN FEET
RAB_CIRCLE
TH3_SB
Robert Street
STATE_ST_NB
STATE_ST_SB
SIDNEY_ST
END 502+02.58


T.H. 3 SB (TH3_SB)
ROUNDABOUT CENTER (rab_circle)
SIDNEY ST (SIDNEY_ST)
T.H. 3 (ROBERT_ST)
STATE ST SB (STATE_ST_SB)
14' THRU
12' THRU
11' THRU
6' WALK
S524 C&G
S512 C&G
B612 C&G
B424 C&G


29.12
4.87
18.67
HEIL DURAPACK 7000
19.00
3.00
11.00
P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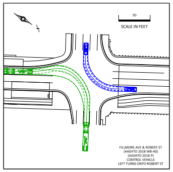
SCALE IN FEET

FILLMORE AVE & ROBERT ST
(AASHTO 2018 CITY-BUS)
DESIGN VEHICLE
RIGHT TURNS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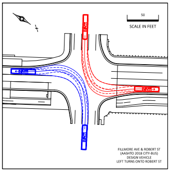
SCALE IN FEET

FILLMORE AVE & ROBERT ST
(AASHTO 2018 WB-40)
(AASHTO 2018 P)
CONTROL VEHICLE
LEFT TURNS ONTO ROBERT ST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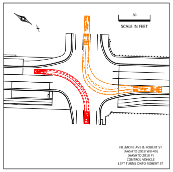
SCALE IN FEET

FILLMORE AVE & ROBERT ST
(AASHTO 2018 CITY-BUS)
DESIGN VEHICLE
LEFT TURNS ONTO ROBERT ST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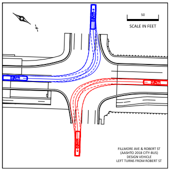
SCALE IN FEET

FILLMORE AVE & ROBERT ST
(AASHTO 2018 WB-40)
(AASHTO 2018 P)
CONTROL VEHICLE
LEFT TURNS ONTO ROBERT ST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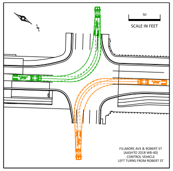
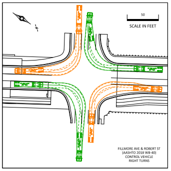
SCALE IN FEET

FILLMORE AVE & ROBERT ST
(AASHTO 2018 CITY-BUS)
DESIGN VEHICLE
LEFT TURNS FROM ROBERT ST


50
SCALE IN FEET

FILLMORE AVE & ROBERT ST
(AASHTO 2018 WB-40)
CONTROL VEHICLE
LEFT TURNS FROM ROBERT ST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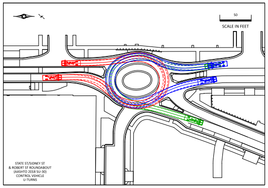
SCALE IN FEET

FILLMORE AVE & ROBERT ST
(AASHTO 2018 WB-40)
CONTROL VEHICLE
RIGHT TURNS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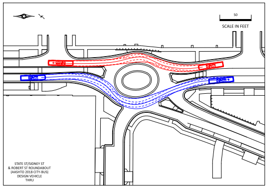
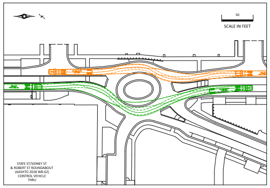
SCALE IN FEET

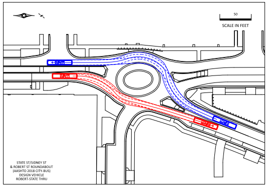
STATE ST/SIDNEY ST
& ROBERT ST ROUNDABOUT
(AASHTO 2018 SU-30)
CONTROL VEHICLE
U-TURNS


50
SCALE IN FEET

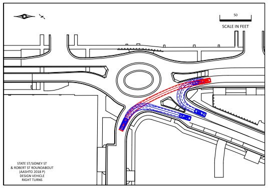
STATE ST/SIDNEY ST
& ROBERT ST ROUNDABOUT
(AASHTO 2018 CITY-BUS)
DESIGN VEHICLE
THRU


50
SCALE IN FEET

STATE ST/SIDNEY ST
& ROBERT ST ROUNDABOUT
(AASHTO 2018 WB-62)
CONTROL VEHICLE
THRU


50
SCALE IN FEET

STATE ST/SIDNEY ST
& ROBERT ST ROUNDABOUT
(AASHTO 2018 CITY-BUS)
DESIGN VEHICLE
ROBERT-STATE THRU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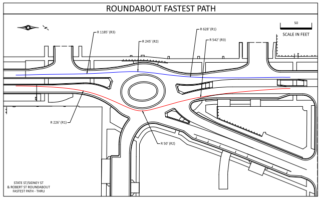
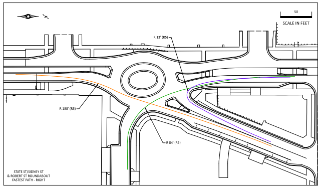
SCALE IN FEET

STATE ST/SIDNEY ST
& ROBERT ST ROUNDABOUT
(AASHTO 2018 P)
DESIGN VEHICLE
RIGHT TURNS

ROUNDABOUT FASTEST PATH


50
SCALE IN FEET
R 1185' (R3)
R 245' (R2)
R 628' (R1)
R 542' (R3)
R 226' (R1)
R 50' (R2)

STATE ST/SIDNEY ST
& ROBERT ST ROUNDABOUT
FASTEST PATH - THRU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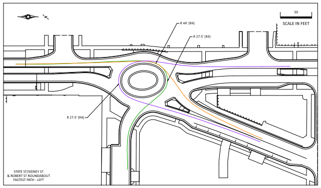
SCALE IN FEET
R 13' (R5)
R 188' (R5)
R 84' (R5)

STATE ST/SIDNEY ST
& ROBERT ST ROUNDABOUT
FASTEST PATH - RIGHT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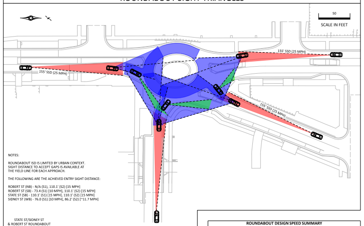
SCALE IN FEET
R 44' (R4)
R 27.5' (R4)
R 27.5' (R4)

STATE ST/SIDNEY ST
& ROBERT ST ROUNDABOUT
FASTEST PATH - LEFT

ROUNDABOUT SIGHT TRIANGLES


50
SCALE IN FEET
155' SSD (25 MPH)
155' SSD (25 MPH)
155' SSD (25 MPH)

NOTES:

ROUNDABOUT ISD IS LIMITED BY URBAN CONTEXT.
SIGHT DISTANCE TO ACCEPT GAPS IS AVAILABLE AT
THE YIELD LINE FOR EACH APPROACH.

THE FOLLOWING ARE THE ACHIEVED ENTRY SIGHT DISTANCE:

ROBERT ST (NB) - N/A (S1), 110.1' (S2) [15 MPH]
ROBERT ST (SB) - 73.4 (S1) [10 MPH], 110.1' (S2) [15 MPH]
STATE ST (SB) - 110.1' (S1) [15 MPH], 110.1' (S2) [15 MPH]
SIDNEY ST (WB) - 76.0 (S1) [10 MPH], 86.2' (S2) [~11.7 MPH]

STATE ST/SIDNEY ST
& ROBERT ST ROUNDABOUT
SIGHT TRIANGLES

ROUNDABOUT DESIGN SPEED SUMMARY

SP 6217-50 TH3

APPROACH	CURVE	RADIUS (ft)	e (ft/ft)	SPEED (mph) (3)	RELATIVE SPEED DIFFERENCE (mph) (1)	PHI Angle (2)
SB	R1	628	-0.02	36.9	24.5	23.5
	R2	245	0.02	28.8	16.4	
	R3	1185	0.02	52.9	40.5	
	R4	27.5	0.02	12.4	0	
	R5					
NB	R1	226	0.02	27.9	16.1	26.8
	R2	50	-0.02	14.6	2.8	
	R3	542	-0.02	35	23.2	
	R4	24.5	0.02	11.8	0	
	R5	188	0.02	26	14.2	
WB (State St)	R1					26.3
	R2					
	R3					
	R4	44	-0.02	13.9	4.6	
	R5	13	0.02	9.3	0	
WB (Sidney St)	R1					33.6
	R2					
	R3					
	R4	27.5	-0.02	11.7	0	
	R5	84	0.02	19	7.3	

(1) RELATIVE SPEED DIFFERENCE IS FROM THE MINIMUM SPEED IN THE ROUNDABOUT, USUALLY R4

(2) MEASURED USING METHOD 1 (ACCEPTED METHOD IN EXHIBIT 6E-15 OF THE FDG)

(3)DERIVED SPEED MAY NOT REPRESENT ACTUAL DRIVING CONDITIONS