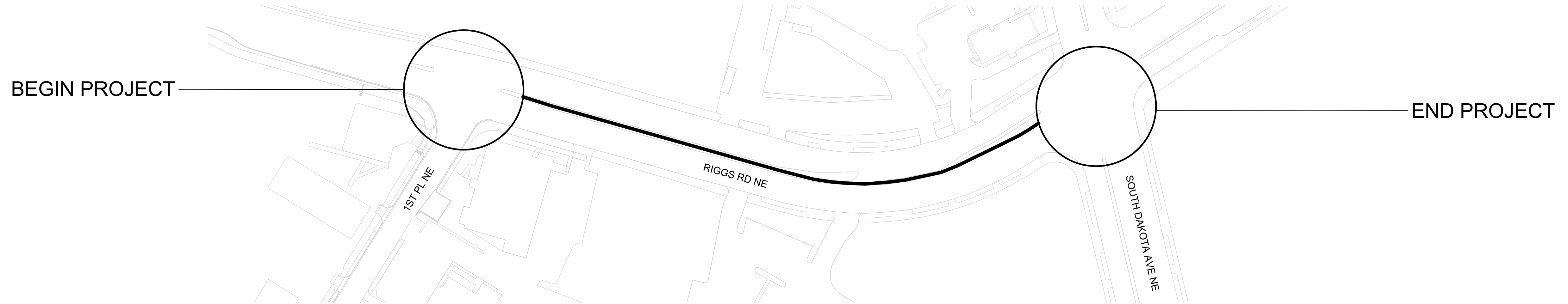


CITY MAP

DISTRICT OF COLUMBIA DEPARTMENT OF TRANSPORTATION

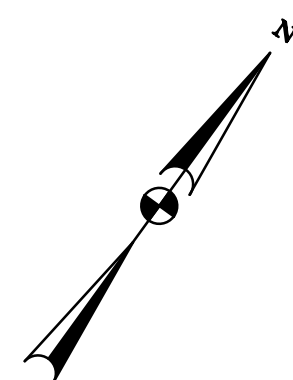


RIGGS ROAD NE FROM 1ST PLACE NE TO SOUTH DAKOTA AVENUE NE PROJECT LENGTH: 671 FT (0.13 MILES) TWO-WAY SEPARATED BIKE LANES FINAL (100%) DESIGN



PROJECT MAP
N.T.S

FINAL (100%) DESIGN
NOVEMBER 2024



| NO | DESCRIPTION | NAME | DATE |
|-----------|-------------|------|------|
| | | | |
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| REVISIONS | | | |

INDEX OF SHEETS

1. TITLE SHEET
2. PROJECT DETAILS
3. SIGN DETAILS
4. SIGN QUANTITIES
5. PAVEMENT MARKING AND VERTICAL ELEMENT QUANTITIES
- 6-7. PAVEMENT MARKING AND SIGNING LAYOUT PLANS

D.C. DEPARTMENT OF TRANSPORTATION
PLANNING AND SUSTAINABILITY DIVISION
ACTIVE TRANSPORTATION PROGRAM

RIGGS RD NE
BICYCLE FACILITY

TITLE SHEET

PROJECT ENG. DAG
DESIGNED BY CJH
CHECKED BY AJC
DRAWN BY CJH
PROJECT MGR. DLL
DIVISION CHIEF
DATE NOVEMBER 2024
FILE
SHEET 1 OF 7

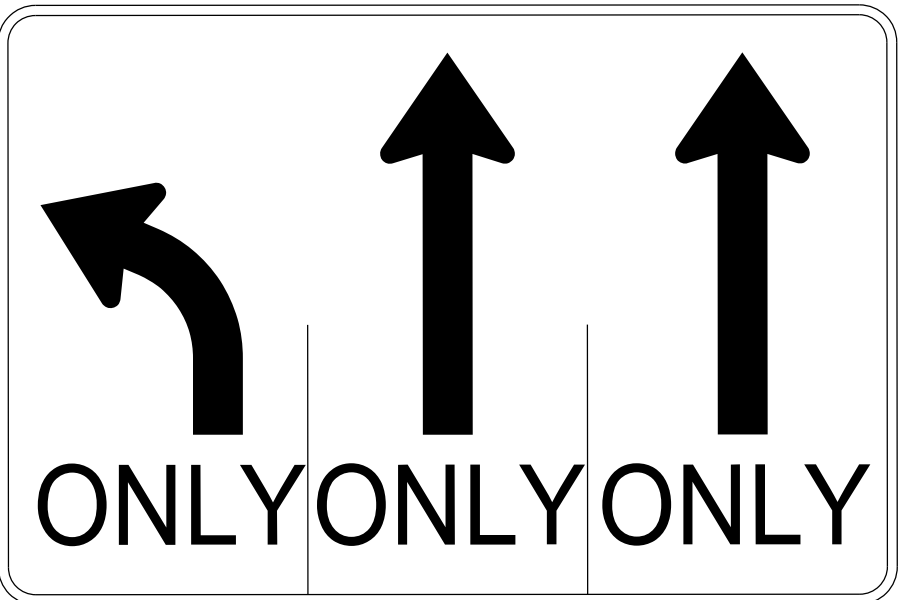
30" W x 30" H



R3-7

N.T.S.

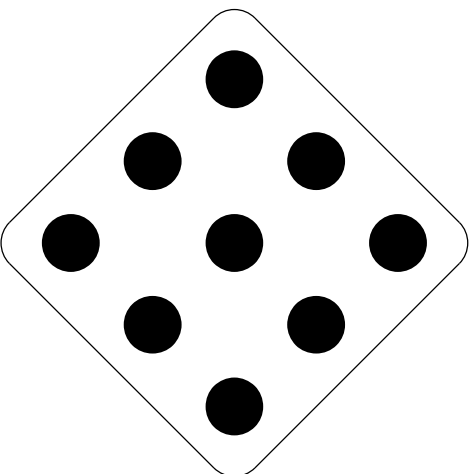
45" W x 30" H



R3-8 (MOD)

N.T.S.

18" W x 18" H



OM1-1

N.T.S.

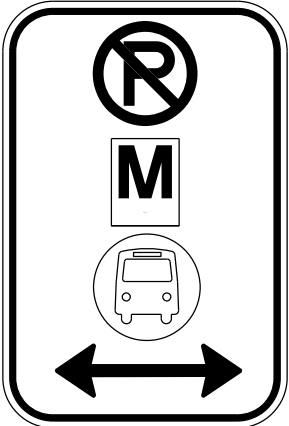
36" W x 12" H



R6-1R

N.T.S.

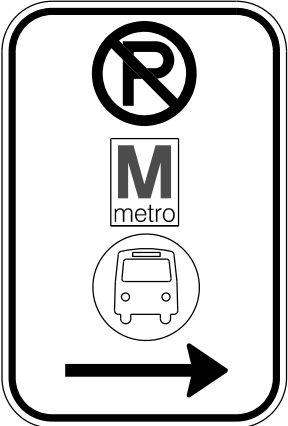
12" W x 18" H



R7-7A

N.T.S.

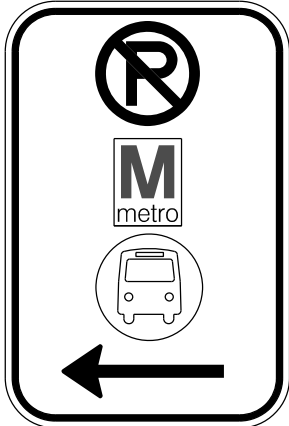
12" W x 18" H



R7-7A (L)

N.T.S.

12" W x 18" H



R7-7A (R)

N.T.S.

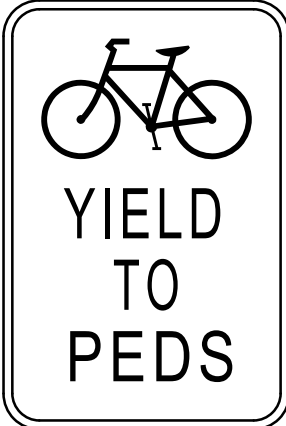
12" W x 18" H



R9-5

N.T.S.

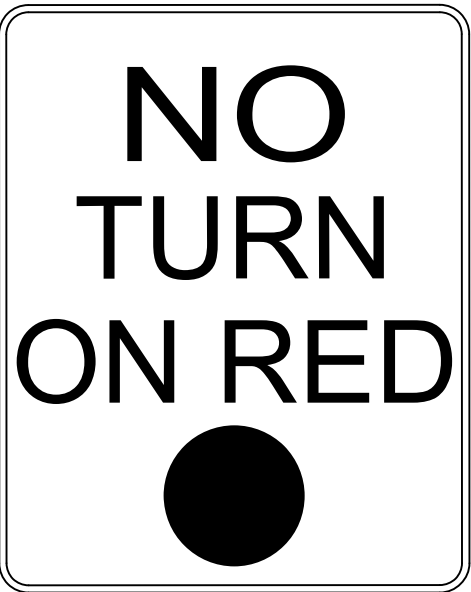
12" W x 18" H



R9-6

N.T.S.

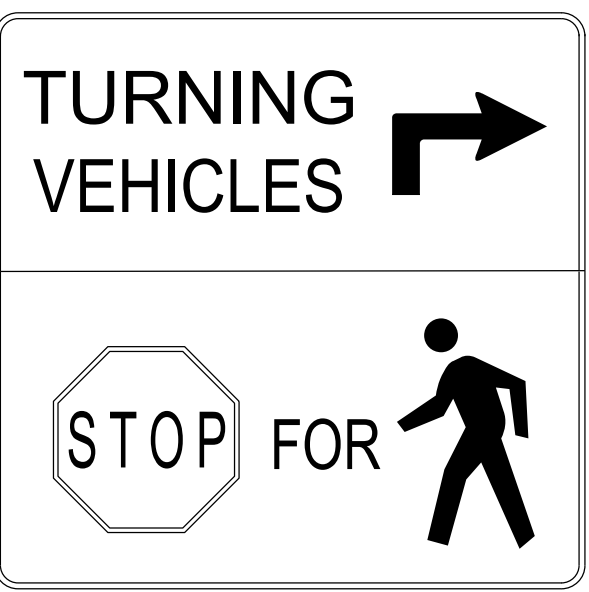
24" W x 30" H



R10-11

N.T.S.

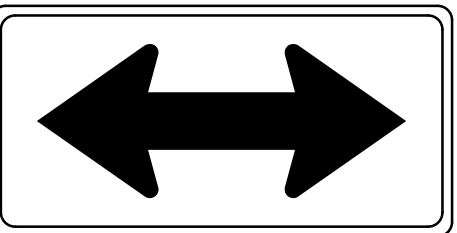
30" W x 30" H



R10-15 (MOD)

N.T.S.

24" W x 12" H



W1-7

N.T.S.

18" W x 9" H



W16-2aP

N.T.S.

24" W x 24" H



W-CUSTOM

N.T.S.

BACKGROUND: YELLOW
BORDER & TEXT: BLACK

24" W x 24" H



W11-1

N.T.S.

30" W x 30" H



W-CUSTOM-2

N.T.S.

BACKGROUND: YELLOW
BORDER & TEXT: BLACK

18" W x 18" H



W26-1 (MOD)

N.T.S.

BACKGROUND: YELLOW
BORDER & TEXT: BLACK

- NOTES:
- ALL SIGNS WITH A STANDARD SIGN CODE SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), AND THE LATEST EDITION OF THE STANDARD HIGHWAY SIGNS MANUAL AND ITS SUPPLEMENTS.

D.C. DEPARTMENT OF TRANSPORTATION
PLANNING AND SUSTAINABILITY DIVISION
ACTIVE TRANSPORTATION PROGRAM

RIGGS RD NE
BICYCLE FACILITY

SIGN DETAILS

PROJECT ENG. DAG
DESIGNED BY CJH
CHECKED BY AJC
DRAWN BY CJH
PROJECT MGR DLL

DIVISION CHIEF

DATE NOVEMBER 2024

FILE

SHEET 3 OF 7



REVISIONS

PROPOSED SIGN QUANTITIES

| Sign Designation | MUTCD/DDOT | Sign Type | Use | Sign or Plaque Description | Quantity | Panel Dimensions (IN) | | Panel Area | Total Area (SF) |
|------------------|------------|------------|---------------|---|----------|-----------------------|----|------------|-----------------|
| | | | | | | W | H | | |
| R3-7 | MUTCD | Regulatory | Motor Vehicle | Left Lane Must Turn Left | 1 | 30 | 30 | 6.25 | 6.25 |
| R3-8 (MOD) | MUTCD | Regulatory | Motor Vehicle | Advance Intersection Lane Control | 1 | 30 | 45 | 9.38 | 9.38 |
| R6-1 (R) | MUTCD | Regulatory | Motor Vehicle | One Way Right | 4 | 36 | 12 | 3.00 | 12.00 |
| R7-7A | DDOT | Regulatory | Motor Vehicle | No Parking Symbol Transit (Dual Arrow) | 1 | 12 | 18 | 1.50 | 1.50 |
| R7-7A (L) | DDOT | Regulatory | Motor Vehicle | No Parking Symbol Transit (Left Arrow) | 2 | 12 | 18 | 1.50 | 3.00 |
| R7-7A (R) | DDOT | Regulatory | Motor Vehicle | No Parking Symbol Transit (Right Arrow) | 2 | 12 | 18 | 1.50 | 3.00 |
| R9-5 | MUTCD | Regulatory | Bicycle | Bicycle Use Ped Signal | 4 | 12 | 18 | 1.50 | 6.00 |
| R9-6 | MUTCD | Regulatory | Bicycle | Bicycle Yield to Peds | 1 | 12 | 18 | 1.50 | 1.50 |
| R10-11 | MUTCD | Regulatory | Motor Vehicle | No Turn On Red | 8 | 24 | 30 | 5.00 | 40.00 |
| R10-15 (MOD) | DDOT | Regulatory | Motor Vehicle | Right Turning Vehicles Stop for Peds | 4 | 30 | 30 | 6.25 | 25.00 |
| W1-7 | MUTCD | Warning | Motor Vehicle | Two-Direction Large Arrow | 3 | 24 | 12 | 2.00 | 6.00 |
| W11-1 | MUTCD | Warning | Motor Vehicle | Bicycle Warning | 4 | 24 | 24 | 4.00 | 16.00 |
| W16-2ap | MUTCD | Warning | Motor Vehicle | Plaque | 1 | 18 | 9 | 1.13 | 1.13 |
| OM1-1 | MUTCD | Warning | Motor Vehicle | Object Marker | 5 | 18 | 18 | 2.25 | 11.25 |
| W-CUSTOM | DDOT | Warning | Bicycle | Bikes Lane Shift | 2 | 24 | 24 | 4.00 | 8.00 |
| W-CUSTOM-2 | DDOT | Warning | Motor Vehicle | Left Turns Stop For Bikes | 1 | 30 | 30 | 6.25 | 6.25 |
| W26-1 (MOD) | MUTCD | Warning | Bicycle | Watch For Turning Vehicles | 2 | 18 | 18 | 2.25 | 4.50 |
| | | | | | | | | Total: | 160.75 |

PROPOSED SIGN POST QUANTITIES


| ITEM | QUANTITY | UNIT |
|-----------|----------|------|
| Sign Post | 8 | EA |

SIGN REMOVAL QUANTITIES

| Sign Designation | MUTCD/DDOT | Sign Type | Use | Sign or Plaque Description | Quantity | Panel Dimensions (IN) | | Panel Area | Total Area (SF) |
|------------------|------------|------------|---------------|--|----------|-----------------------|----|------------|-----------------|
| | | | | | | W | H | | |
| R2-1 | MUTCD | Regulatory | Motor Vehicle | Speed Limit | 2 | 24 | 30 | 5.00 | 10.00 |
| R7-2a (MOD) | DDOT | Regulatory | Motor Vehicle | No Parking 7AM-9:30PM to 4PM-6:30PM M-F (Dual Arrow) | 2 | 12 | 18 | 1.50 | 3.00 |
| R7-7 (MOD) | DDOT | Regulatory | Motor Vehicle | No Standing or Parking Metro Bus Zone (Dual Arrow) | 1 | 12 | 18 | 1.50 | 1.50 |
| R7-7 (MOD) (L) | DDOT | Regulatory | Motor Vehicle | No Standing or Parking Metro Bus Zone (Left Arrow) | 1 | 12 | 18 | 1.50 | 1.50 |
| R7-7 (MOD) (R) | DDOT | Regulatory | Motor Vehicle | No Standing or Parking Metro Bus Zone (Right Arrow) | 2 | 12 | 18 | 1.50 | 3.00 |
| R7-1 | MUTCD | Regulatory | Motor Vehicle | No Parking Anytime (Dual Arrow) | 1 | 12 | 18 | 1.50 | 1.50 |
| R7-1 (L) | DDOT | Regulatory | Motor Vehicle | No Standing or Parking Anytime | 1 | 12 | 18 | 1.50 | 1.50 |
| R10-6a | MUTCD | Regulatory | Motor Vehicle | Stop Here on Red | 1 | 24 | 30 | 5.00 | 5.00 |
| R10-7 | MUTCD | Regulatory | Motor Vehicle | Do Not Block Intersection | 3 | 24 | 30 | 5.00 | 15.00 |
| R10-15 (R) | MUTCD | Regulatory | Motor Vehicle | Right Turning Vehicles Yield for Peds | 2 | 30 | 30 | 6.25 | 12.50 |
| | | | | | | | | Total: | 54.50 |

SIGN POST REMOVAL QUANTITIES

| ITEM | QUANTITY | UNIT |
|-----------|----------|------|
| Sign Post | 2 | EA |



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| REVISIONS | | | |

D.C. DEPARTMENT OF TRANSPORTATION
PLANNING AND SUSTAINABILITY DIVISION
ACTIVE TRANSPORTATION PROGRAM

RIGGS RD NE
BICYCLE FACILITY

SIGN QUANTITIES

PROJECT ENG. DAG
DESIGNED BY CJH
CHECKED BY AJC
DRAWN BY CJH
PROJECT MGR DLL

DIVISION CHIEF

DATE NOVEMBER 2024
FILE
SHEET 4 OF 7

PAVEMENT MARKING AND VERTICAL ELEMENT QUANTITIES

| ITEM | QUANTITY | UNIT |
|---|----------|------|
| THERMOPLASTIC PAVEMENT MARKINGS - STRIPING | | |
| 4" WHITE THERMOPLASTIC PAVEMENT MARKING - SOLID | 1168 | LF |
| 4" WHITE THERMOPLASTIC PAVEMENT MARKING - SOLID (ANGLED 45 DEG, NO PARKING ZONE) | 127 | LF |
| 4" WHITE THERMOPLASTIC PAVEMENT MARKING - DASHED (2' STRIPE, 4' SKIP)* | 140 | LF |
| 4" YELLOW THERMOPLASTIC PAVEMENT MARKING - SOLID | 108 | LF |
| 4" YELLOW THERMOPLASTIC PAVEMENT MARKING - DASHED (2' STRIPE, 4' SKIP)* | 98 | LF |
| 4" YELLOW THERMOPLASTIC PAVEMENT MARKING - DASHED (3' STRIPE, 9' SKIP)* | 64 | LF |
| 6" WHITE THERMOPLASTIC PAVEMENT MARKING - SOLID (ANGLED 45 DEG) | 172 | LF |
| 12" WHITE THERMOPLASTIC PAVEMENT MARKING - SOLID (STOP BAR) | 148 | LF |
| 12" YELLOW THERMOPLASTIC PAVEMENT MARKING - SOLID (ANGLED 45 DEG) | 24 | LF |
| WHITE THERMOPLASTIC PAVEMENT MARKING - SYMBOLS | | |
| LEFT TURN ONLY ARROW SYMBOL | 8 | EA |
| RIGHT TURN ONLY ARROW SYMBOL | 2 | EA |
| "ONLY" TEXT SYMBOL | 5 | EA |
| BIKE LANE SYMBOL | 4 | EA |
| GREEN THERMOPLASTIC PAVEMENT MARKING - STRIPING | | |
| BIKE LANE GREEN PAVEMENT MARKING - INTERSECTION CROSSING MARKING | 178 | SF |
| BIKE LANE GREEN PAVEMENT MARKING - DRIVEWAY CROSSING MARKING | 360 | SF |
| BUFFER MATERIALS | | |
| 8'x8"x4" CONCRETE PARKING WHEEL STOP | 7 | EA |
| 8'x18"x6" CONCRETE PARKING WHEEL STOP | 7 | EA |
| YELLOW FLEXIBLE CHANNELIZER POST | 7 | EA |
| WHITE FLEXIBLE CHANNELIZER POST | 21 | EA |
| * Quantities for dashed line types represent length of actual striping (excludes skip length) | | |
| Note: Striping and flexible channelizer posts quantities are approximate. Field measurements will be used | | |
| for final billing/accounting purposes. | | |



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| REVISIONS | | |

D.C. DEPARTMENT OF TRANSPORTATION
PLANNING AND SUSTAINABILITY DIVISION
ACTIVE TRANSPORTATION PROGRAM

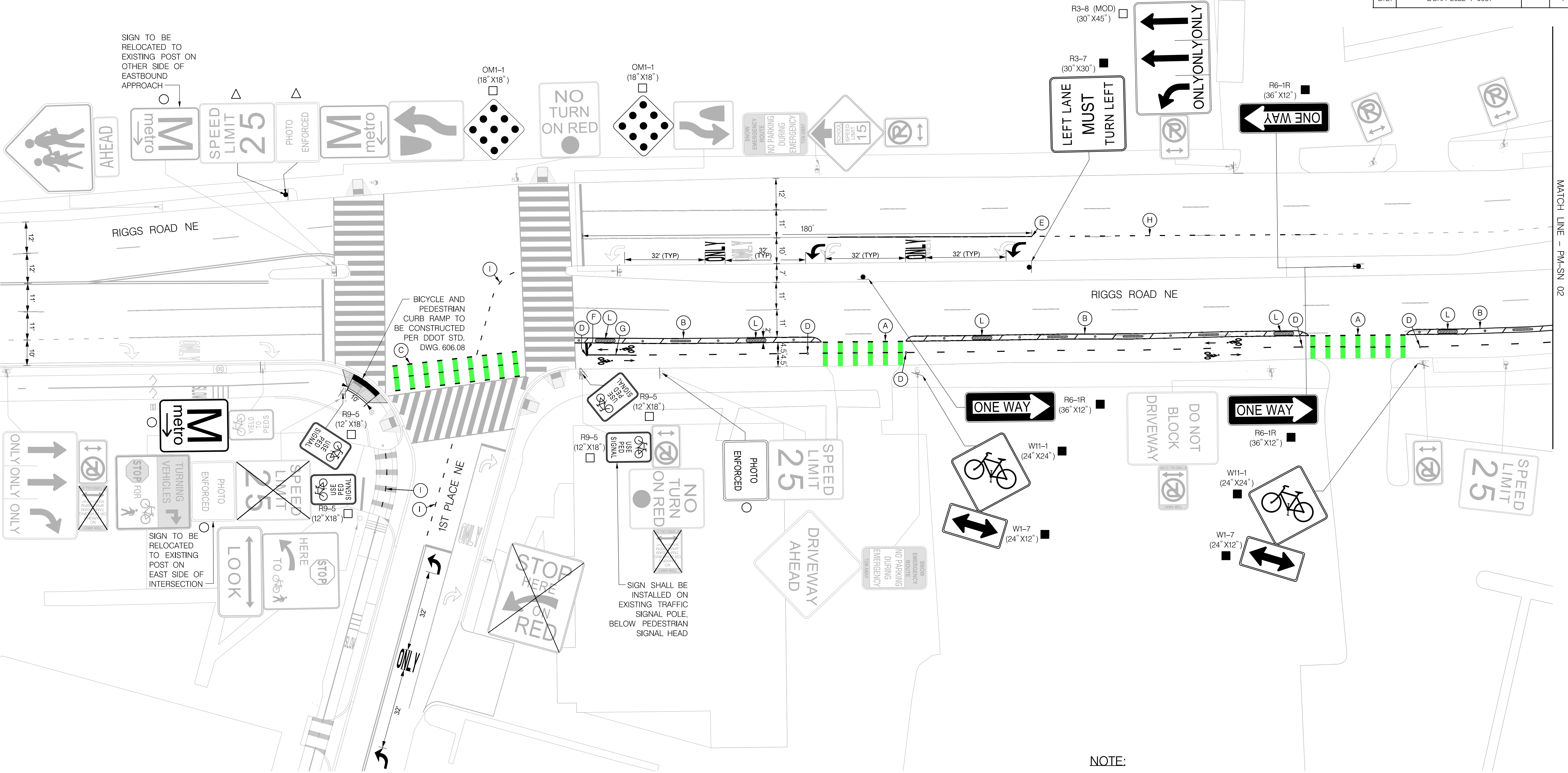
RIGGS RD NE
BICYCLE FACILITY

PAVEMENT MARKING AND
VERTICAL ELEMENT QUANTITIES

PROJECT ENG. DAG
DESIGNED BY CJH
CHECKED BY AJC
DRAWN BY CJH
PROJECT MGR DLL

DIVISION CHIEF

DATE NOVEMBER 2024
FILE
SHEET 5 OF 7



SIGNING & PAVEMENT MARKING LEGEND

- ✕ EXISTING SIGN TO BE REMOVED
- EXISTING SIGN TO BE RELOCATED TO EXISTING POST
- △ EXISTING SIGN TO BE RELOCATED TO NEW POST
- NEW SIGN TO BE INSTALLED ON EXISTING POST OR EX. SIGNAL/LIGHT POLE
- NEW SIGN TO BE INSTALLED ON NEW POST
- (A) SEE "SEPARATED BIKE LANE DRIVEWAY CROSSING" DETAIL ON "PROJECT NOTES & DETAILS" SHEET
- (B) SEE "CYCLE TRACK STRIPING" DETAIL ON "PROJECT NOTES & DETAILS" SHEET
- (C) SEE "TWO-WAY CYCLE TRACK CROSSING" DETAIL ON "PROJECT NOTES & DETAILS" SHEET
- (D) YELLOW FLEXIBLE CHANNELIZING POST

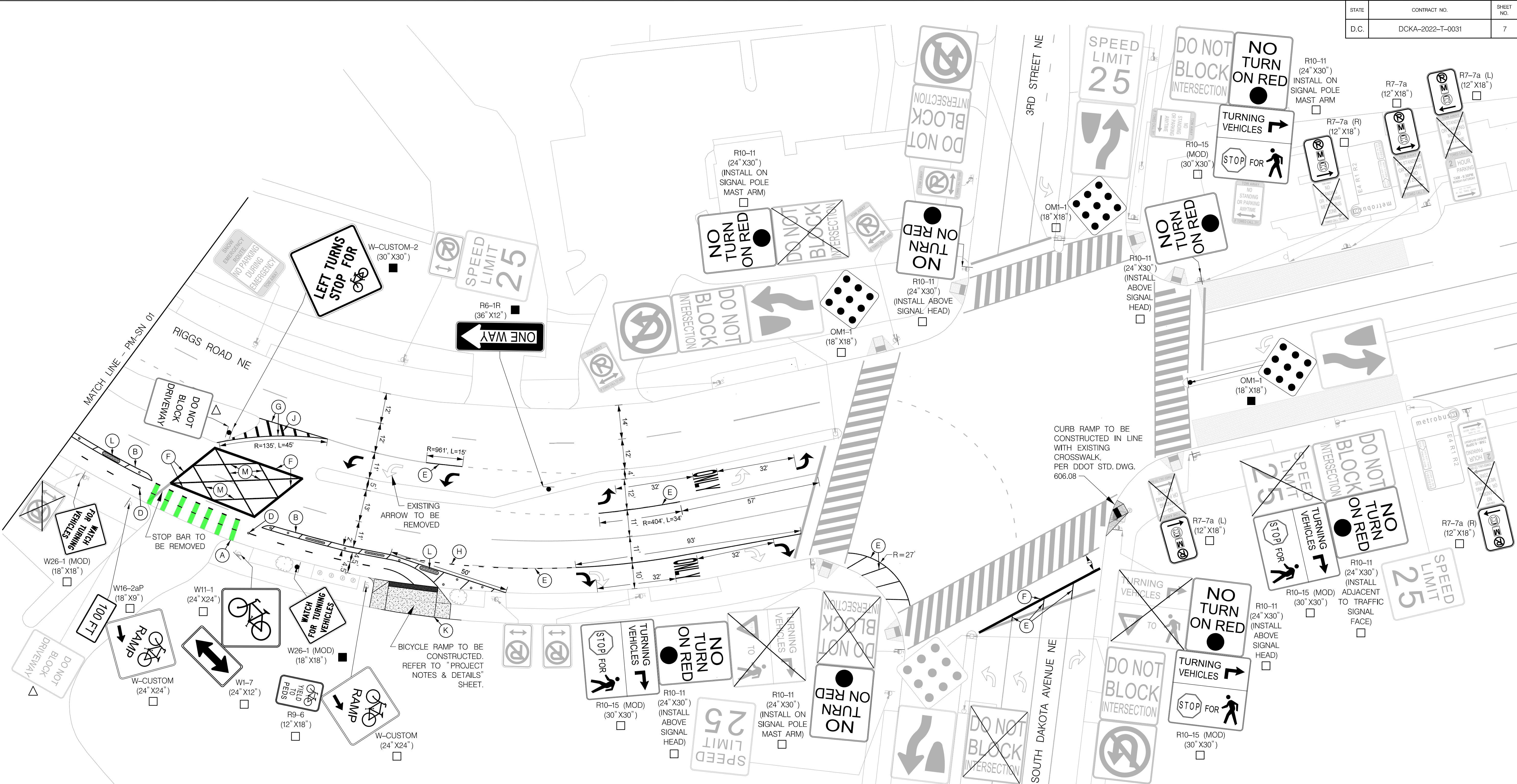
- (E) 4 INCH SOLID WHITE THERMOPLASTIC PAVEMENT MARKINGS
- (F) 12 INCH WHITE THERMOPLASTIC PAVEMENT MARKINGS
- (G) 4 INCH SOLID YELLOW THERMOPLASTIC PAVEMENT MARKINGS
- (H) 4 INCH DASHED WHITE THERMOPLASTIC PAVEMENT MARKINGS (2' STRIPE, 4' SKIP)
- (I) 4 INCH DASHED YELLOW THERMOPLASTIC PAVEMENT MARKINGS (2' SKIP, 4' SKIP)
- (J) 12 INCH SOLID YELLOW THERMOPLASTIC PAVEMENT MARKINGS, SPACED 5' O.C.
- (K) SEE "CYCLE TRACK /SIDEWALK TRANSITION" DETAIL ON "PROJECT NOTES & DETAILS" SHEET
- (L) SEE "PRECAST CONCRETE CYCLE TRACK BARRIER CURB" ON "PROJECT NOTES & DETAIL" SHEET

- (M) 6 INCH SOLID WHITE THERMOPLASTIC PAVEMENT MARKINGS
- BIKE LANE SYMBOL THERMOPLASTIC PAVEMENT MARKINGS
- "BIKE LANE GREEN" PAINTED PAVEMENT (TYP)
- ↔ LANE ASSIGNMENT THERMOPLASTIC PAVEMENT MARKINGS

- NOTE:
- ALL EXISTING PAVEMENT MARKINGS THAT CONFLICT WITH PROPOSED PAVEMENT MARKINGS SHALL BE ERADICATED
 - PROPOSED PAVEMENT MARKINGS AND SIGNAGE AT THE RIGGS ROAD NE AT 1ST PLACE NE INTERSECTION TO BE IMPLEMENTED AFTER THE COMPLETION OF THE METROPOLITAN BRANCH TRAIL EXTENSION PROJECT

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| | | | |
| | NO. | DESCRIPTION | NAME DATE |
| REVISIONS | | | |

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| D.C. DEPARTMENT OF TRANSPORTATION PLANNING AND SUSTAINABILITY DIVISION ACTIVE TRANSPORTATION PROGRAM | |
| RIGGS RD NE BICYCLE FACILITY | PROJECT ENG. <u>DAG</u> DESIGNED BY <u>CJH</u> CHECKED BY <u>AJC</u> DRAWN BY <u>CJH</u> PROJECT MGR. <u>DLL</u> |
| PAVEMENT MARKING AND SIGNING LAYOUT PLANS | DIVISION CHIEF DATE <u>NOVEMBER 2024</u> FILE SHEET <u>6</u> OF <u>7</u> |



SIGNING & PAVEMENT MARKING LEGEND

- ✕ EXISTING SIGN TO BE REMOVED
- EXISTING SIGN TO BE RELOCATED TO EXISTING POST
- △ EXISTING SIGN TO BE RELOCATED TO NEW POST
- NEW SIGN TO BE INSTALLED ON EXISTING POST OR EX. SIGNALLIGHT POLE
- NEW SIGN TO BE INSTALLED ON NEW POST
- (A) SEE "SEPARATED BIKE LANE DRIVEWAY CROSSING" DETAIL ON "PROJECT NOTES & DETAILS" SHEET
- (B) SEE "CYCLE TRACK STRIPING" DETAIL ON "PROJECT NOTES & DETAILS" SHEET
- (C) SEE "TWO-WAY CYCLE TRACK CROSSING" DETAIL ON "PROJECT NOTES & DETAILS" SHEET
- (D) YELLOW FLEXIBLE CHANNELIZING POST

- (E) 4 INCH SOLID WHITE THERMOPLASTIC PAVEMENT MARKINGS
- (F) 12 INCH WHITE THERMOPLASTIC PAVEMENT MARKINGS
- (G) 4 INCH SOLID YELLOW THERMOPLASTIC PAVEMENT MARKINGS
- (H) 4 INCH DASHED WHITE THERMOPLASTIC PAVEMENT MARKINGS (2' STRIPE, 4' SKIP)
- (I) 4 INCH DASHED YELLOW THERMOPLASTIC PAVEMENT MARKINGS (2' SKIP, 4' SKIP)
- (J) 12 INCH SOLID YELLOW THERMOPLASTIC PAVEMENT MARKINGS, SPACED 5' O.C.
- (K) SEE "CYCLE TRACK /SIDEWALK TRANSITION" DETAIL ON "PROJECT NOTES & DETAILS" SHEET
- (L) SEE "PRECAST CONCRETE CYCLE TRACK BARRIER CURB" DETAIL ON "PROJECT NOTES & DETAILS" SHEET

- (M) 6 INCH SOLID WHITE THERMOPLASTIC PAVEMENT MARKINGS
- BIKE LANE SYMBOL THERMOPLASTIC PAVEMENT MARKINGS
- "BIKE LANE GREEN" PAINTED PAVEMENT (TYP)
- ↔ LANE ASSIGNMENT THERMOPLASTIC PAVEMENT MARKINGS

NOTE:
1. ALL EXISTING PAVEMENT MARKINGS THAT CONFLICT WITH PROPOSED PAVEMENT MARKINGS SHALL BE ERADICATED

D.C. DEPARTMENT OF TRANSPORTATION
PLANNING AND SUSTAINABILITY DIVISION
ACTIVE TRANSPORTATION PROGRAM

RIGGS RD NE
BICYCLE FACILITY

PAVEMENT MARKING AND
SIGNING LAYOUT PLANS

| | |
|----------------|---------------|
| PROJECT ENG. | DAG |
| DESIGNED BY | CJH |
| CHECKED BY | AJC |
| DRAWN BY | CJH |
| PROJECT MGR | DLL |
| DIVISION CHIEF | |
| DATE | NOVEMBER 2024 |
| FILE | |
| SHEET | 7 OF 7 |

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| REVISIONS | | | |
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