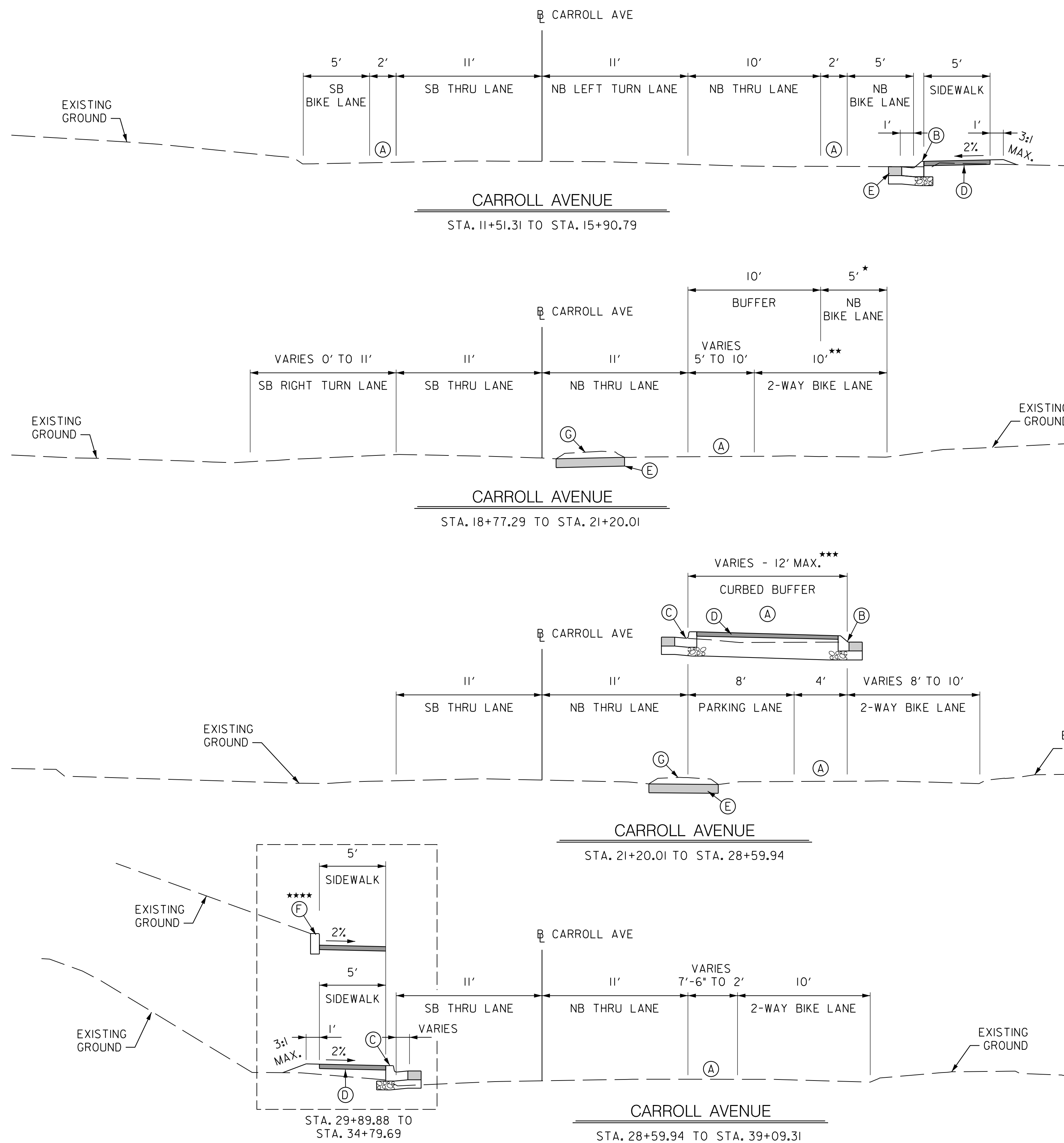


Attachment A: Corridor Engineering Drawings



- ### TYPICAL SECTION LEGEND
- (A) BIKE LANE BUFFER - SEE PLANS AND SHEET DE-01
 - (B) NEW CURB / CURB & GUTTER - MDOT SHA TYPE B
 - (C) NEW CURB & GUTTER - MCDOT TYPE A
 - (D) 5 INCH CONCRETE SIDEWALK
 - (E) FULL DEPTH PAVEMENT
 - (F) MODIFIED MCDOT TYPE A CURB
 - (G) TO BE DEMOLISHED

- * STA. 18+77.29 TO STA. 19+29.40
- ** STA. 19+29.40 TO STA. 21+20.01
- *** STA. 18+83.08 TO STA. 19+39.68

- STA. 22+25.92 TO STA. 22+79.50
- STA. 23+28.52 TO STA. 24+22.97
- STA. 26+32.61 TO STA. 27+00.20
- STA. 27+62.05 TO STA. 27+96.63

- **** STA. 33+60.00 TO STA. 34+79.17

**35% DESIGN
NOT FOR
CONSTRUCTION**

OWNER/ADDRESS:
MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
100 EDISON PARK DRIVE
GAITHERSBURG, MARYLAND

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ENGINEERING
240-777-7220
DESIGN SECTION
240-777-7221

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
ROCKVILLE, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Transportation Planning and Design Section _____ Date _____

APPROVED

Chief, Division of Transportation Engineering _____ Date _____

DESIGNED BY OG DRAWN BY TM CHECKED BY TMB

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING

**CARROLL AVENUE
SEPARATED BIKE LANES**
MERRIMAC DRIVE TO PINEY BRANCH ROAD

TYPICAL SECTIONS

SCALE NO SCALE DATE JULY 2023

DRAWING NO. TS-01 OF 01 SHEET NO. 3 OF 36

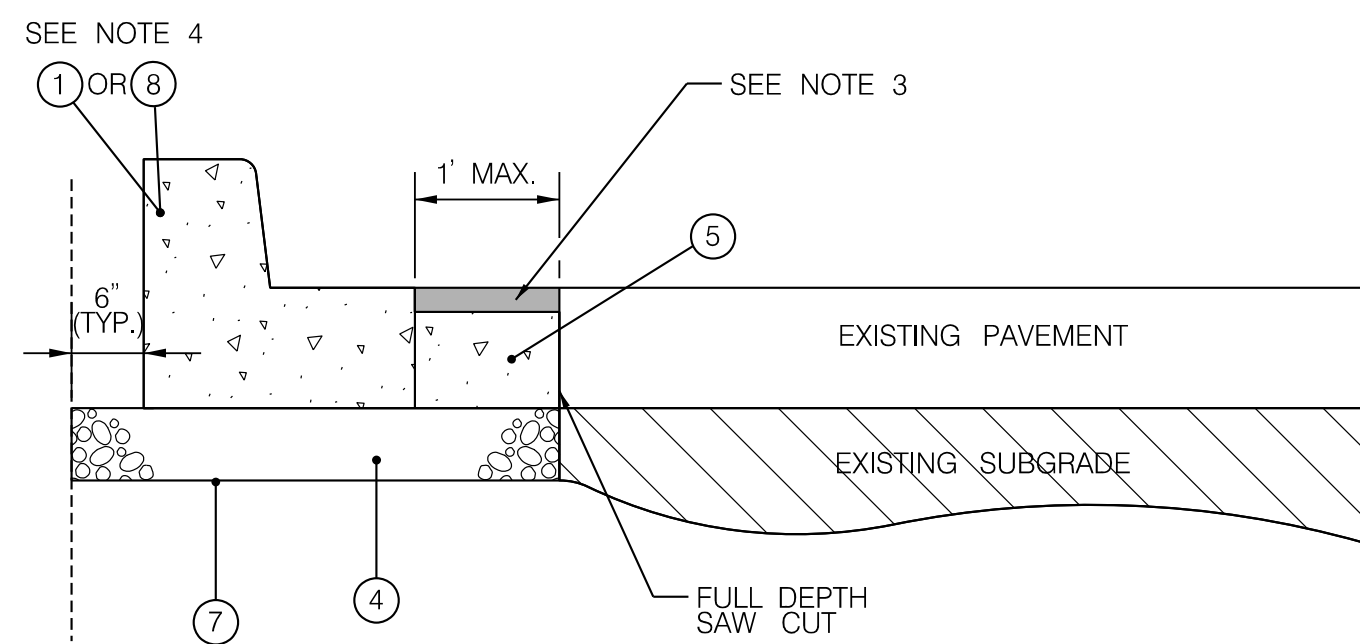
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 PLOT DATE: 7/26/2023

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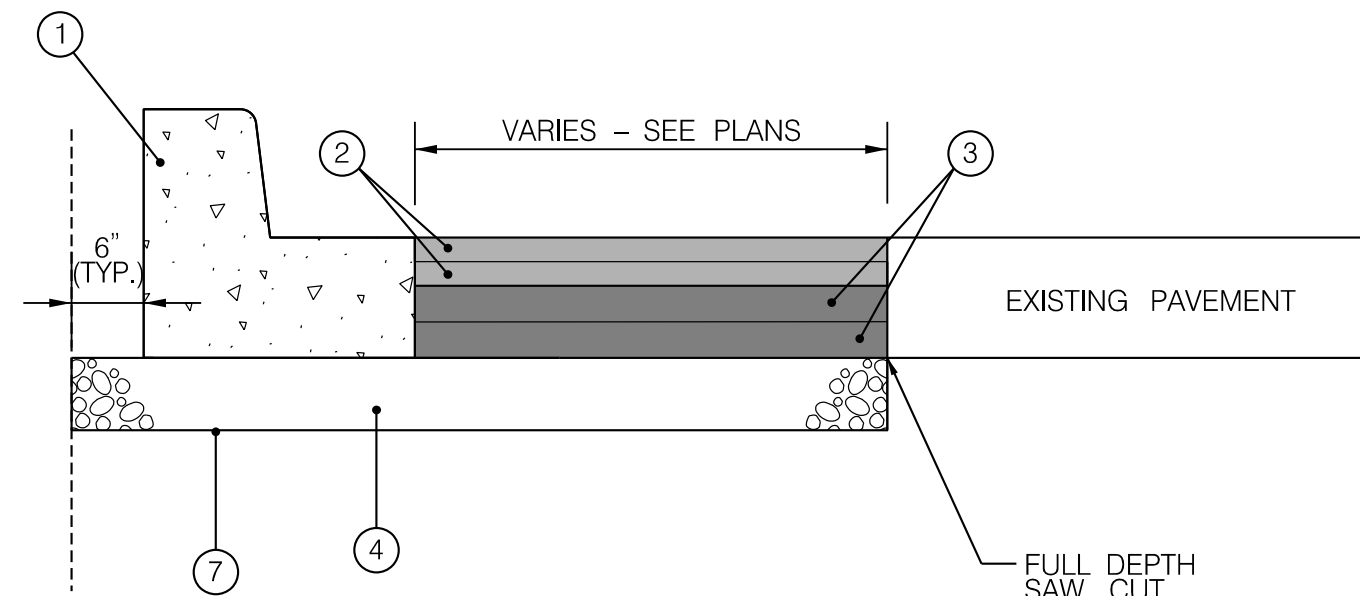
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Attachment A: Corridor Engineering Drawings



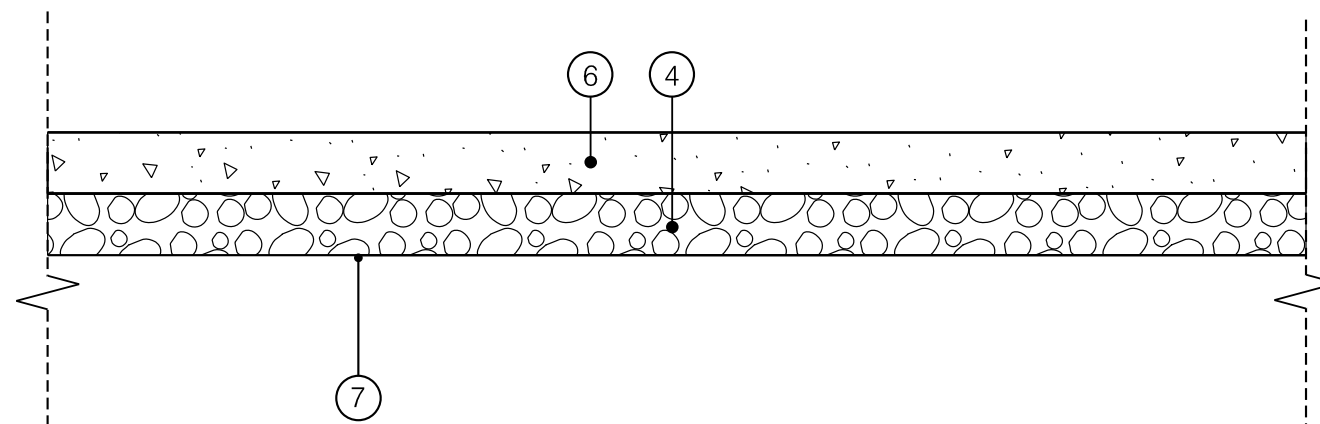
DETAIL A
NEW CURB / CURB AND GUTTER PLACEMENT

NOT TO SCALE



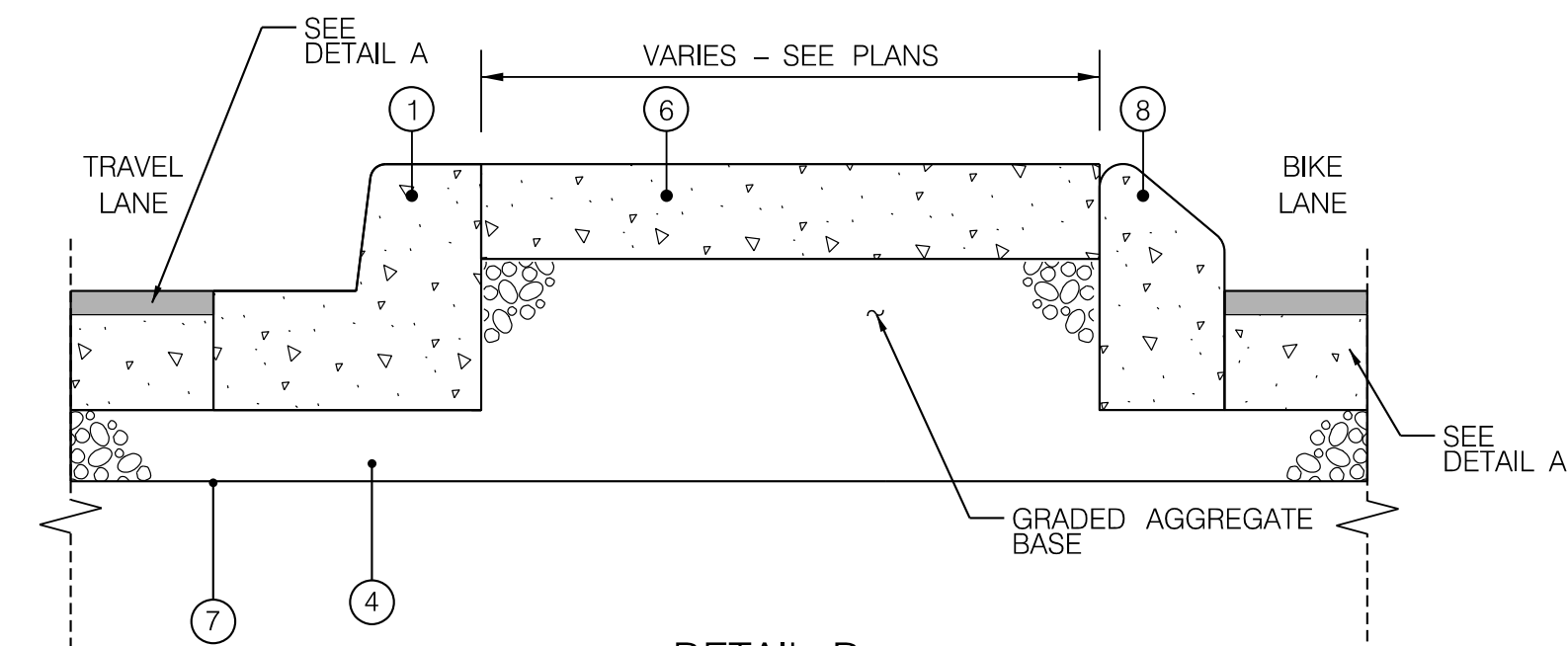
DETAIL B
FULL DEPTH PAVEMENT

NOT TO SCALE



DETAIL C
NEW SIDEWALK SECTION

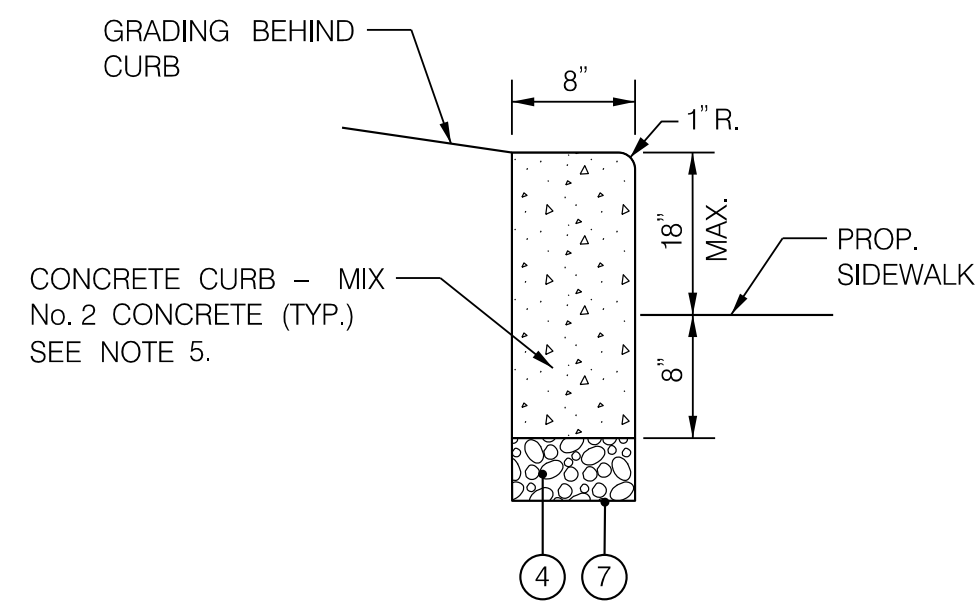
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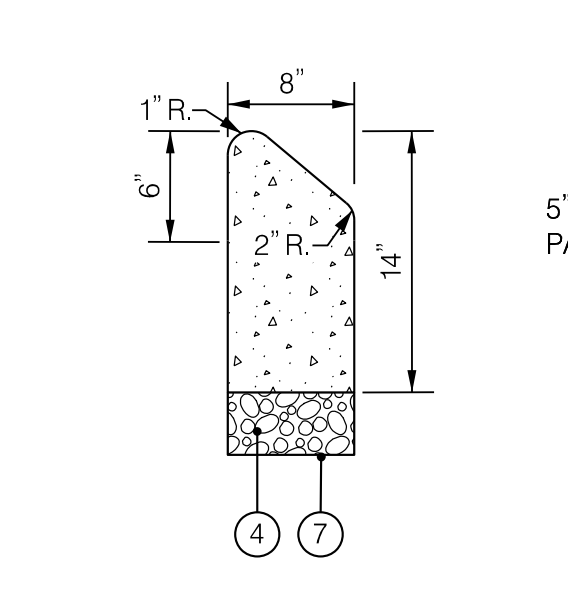
DETAIL D
CURBED BUFFER

NOT TO SCALE

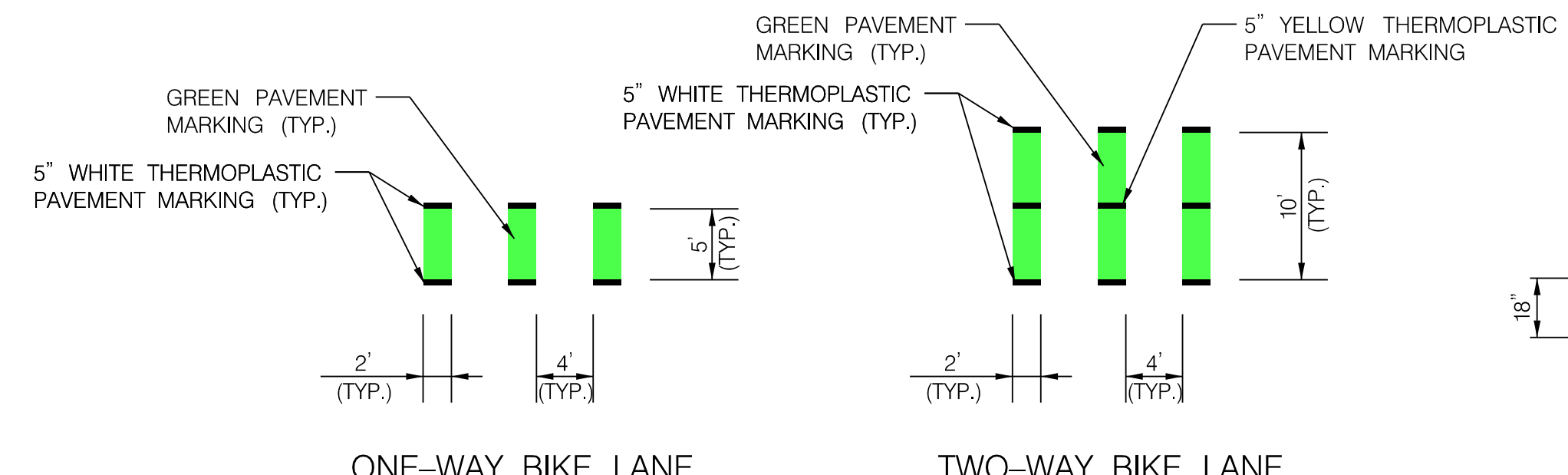
**35% DESIGN
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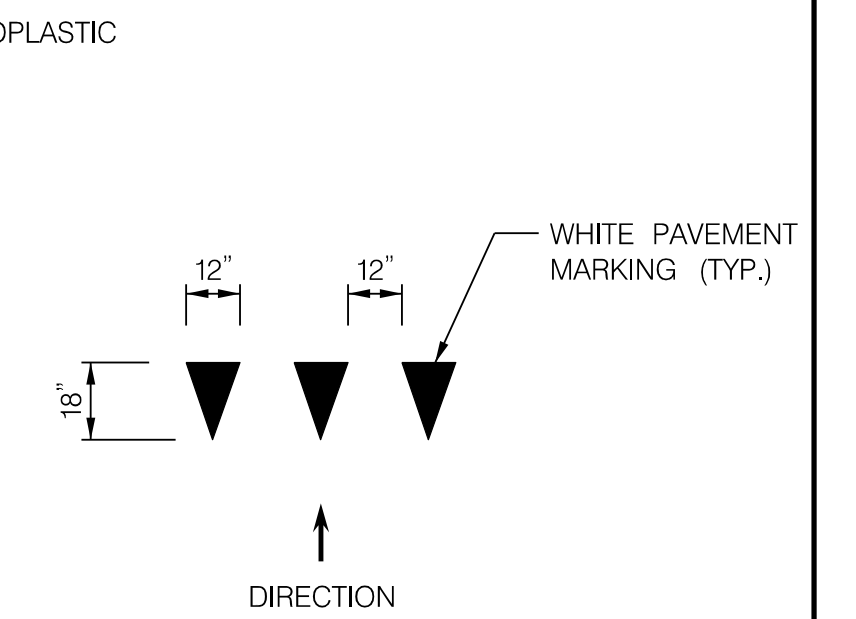
MODIFIED TYPE A CURB
NOT TO SCALE



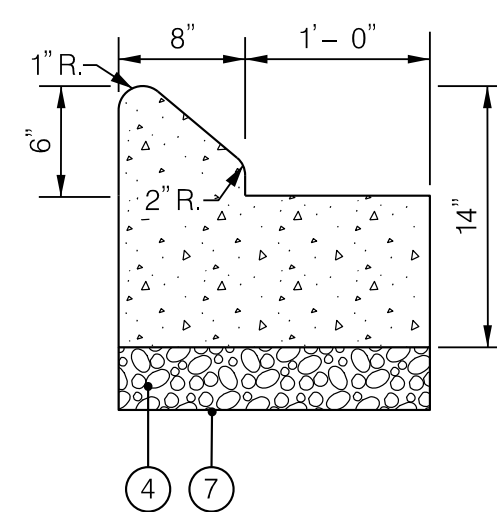
MDOT SHA TYPE B CURB
STD. No. MD 620.02
NOT TO SCALE



BIKE LANE CONFLICT PAVEMENT MARKING
NOT TO SCALE



BIKE LANE YIELD MARKING
NOT TO SCALE



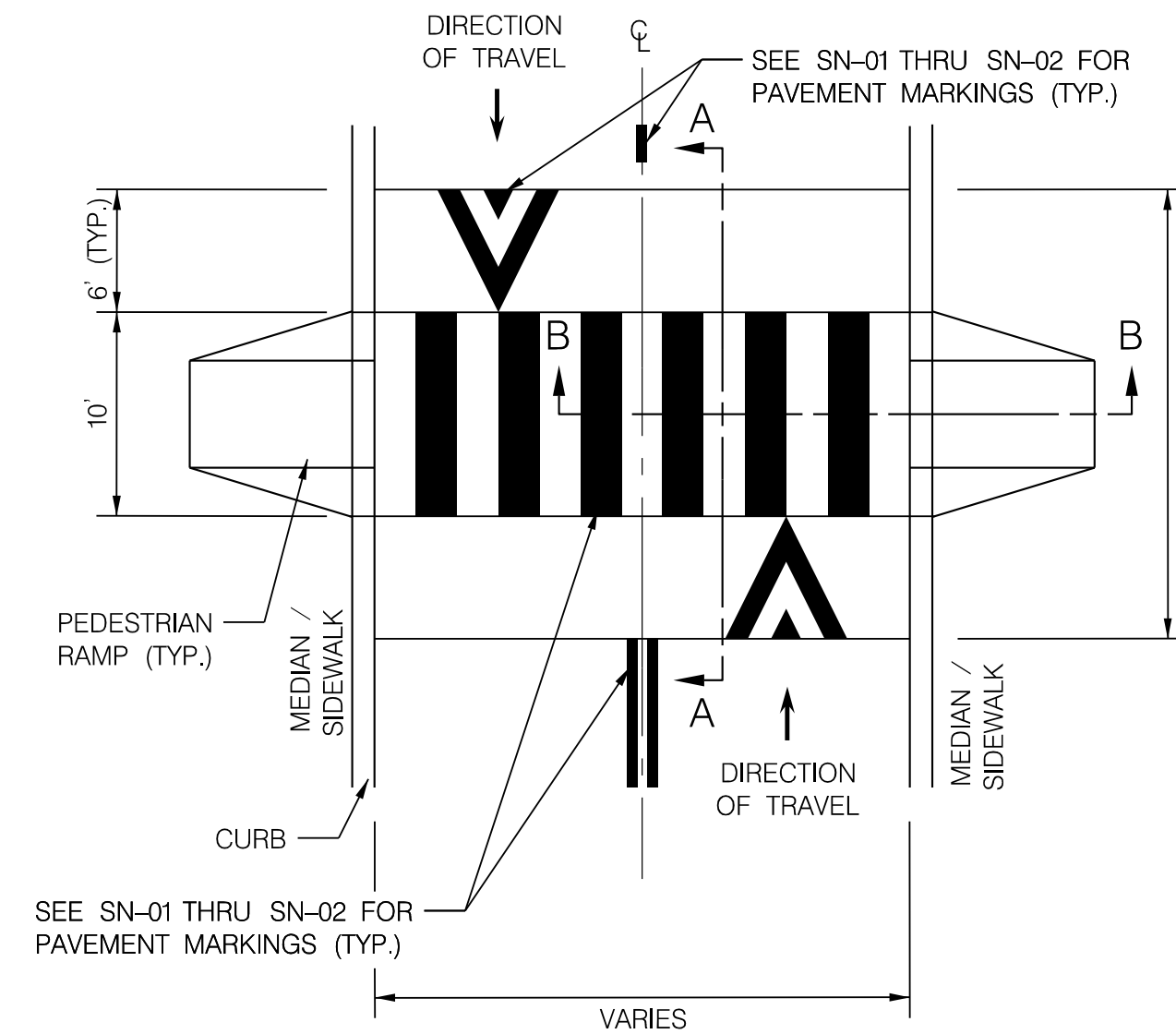
MDOT SHA TYPE B CURB AND GUTTER
STD. No. MD 620.02
NOT TO SCALE

PAVEMENT LEGEND

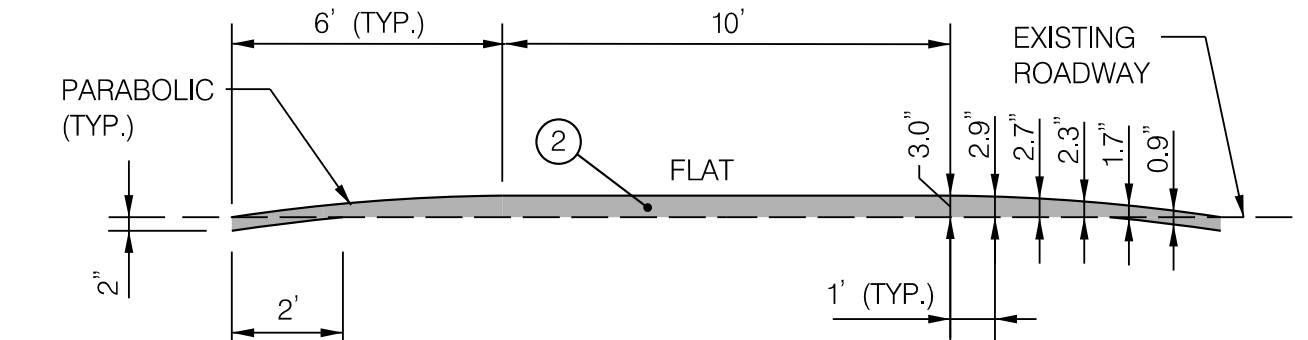
- ① COMBINATION CONCRETE CURB & GUTTER - TYPE A (STD No. MC-100.01)
- ② 1-1/2 INCH HOT MIX ASPHALT SUPERPAVE SURFACE, 12.5 MM, PG 64-22, LEVEL-2
- ③ 2-1/2 INCH HOT MIX ASPHALT SUPERPAVE BASE, 19.0 MM, PG 64-22, LEVEL-2
- ④ 6" GRADED AGGREGATE BASE COURSE (MIN.)
- ⑤ 8" PORTLAND CEMENT CONCRETE MIX NO. 9
- ⑥ 5" CONCRETE SIDEWALK (STD No. MC-111.0)
- ⑦ TOP OF SUBGRADE AND LIMIT OF CLASS 1 EXCAVATION
- ⑧ MDOT SHA TYPE B CONCRETE CURB (STD. MD 620.02)

PAVEMENT DETAIL NOTES

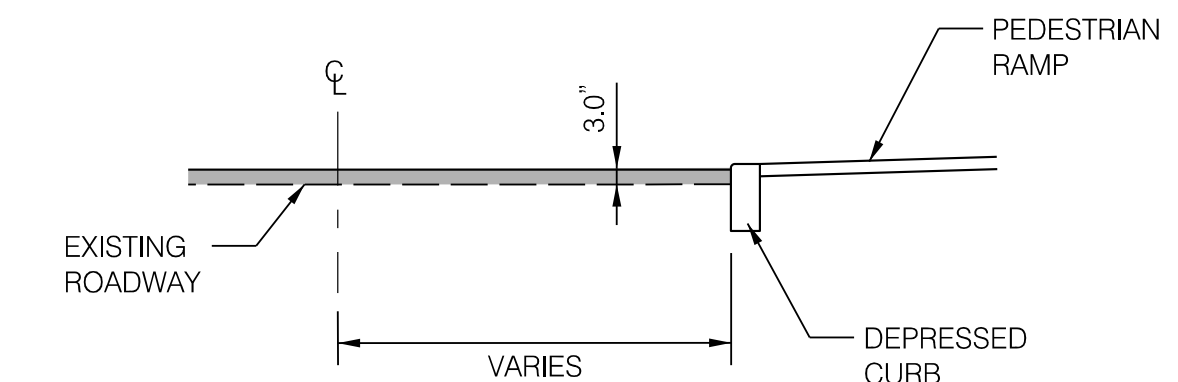
1. REMOVE AND DISPOSE OF ALL SOFT AND UNSTABLE MATERIAL PER SECTION 208 OF THE MDSA STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS, JULY 2021. BACKFILL EXCAVATED AREA WITH SELECT BORROW.
2. IN AREAS WHERE EXISTING PAVEMENT IS BEING REMOVED, THE LIMIT OF EXCAVATION SHALL BE AT THE BOTTOM OF THE BOUND MATERIALS IN THE EXISTING PAVEMENT OR AT THE TOP OF SUBGRADE, WHICHEVER IS LOWER.
3. THIS WORK IS TO BE DONE AT THE CONTRACTOR'S OPTION. AN ADDITIONAL 1' WIDTH (MAXIMUM) EXCAVATION MAY BE USED FOR CURB AND GUTTER FORM PLACEMENT. THE ADDITIONAL EXCAVATION WIDTH IS TO BE FILLED WITH A MINIMUM OF 8" GAB AND PORTLAND CEMENT CONCRETE MIX NO. 3 FROM THE BOTTOM OF THE STANDARD CURB AND GUTTER TO 2" BELOW THE FINAL ASPHALT SURFACE ELEVATION. PAYMENT SHALL BE INCIDENTAL TO THE LINEAR FOOT ITEM FOR CURB & GUTTER. TRANSVERSE JOINTS SHALL MATCH THOSE OF THE CURB AND GUTTER. DOWEL BARS ARE NOT NECESSARY. ALTERNATIVELY, THE CONTRACTOR MAY CHOOSE TO SAW-CUT THE EXISTING PAVEMENT AND PLACE THE NEW CURB AND GUTTER DIRECTLY AGAINST THE SAWED EDGE.
4. COMBINATION CURB AND GUTTER SHOWN. SEE PLAN SHEETS FOR LOCATION OF TYPE B CURB AND TYPE A CURB AND GUTTER.
5. MODIFIED TYPE A CURB TO BE PAID AS TYPE A CURB ANY HEIGHT.



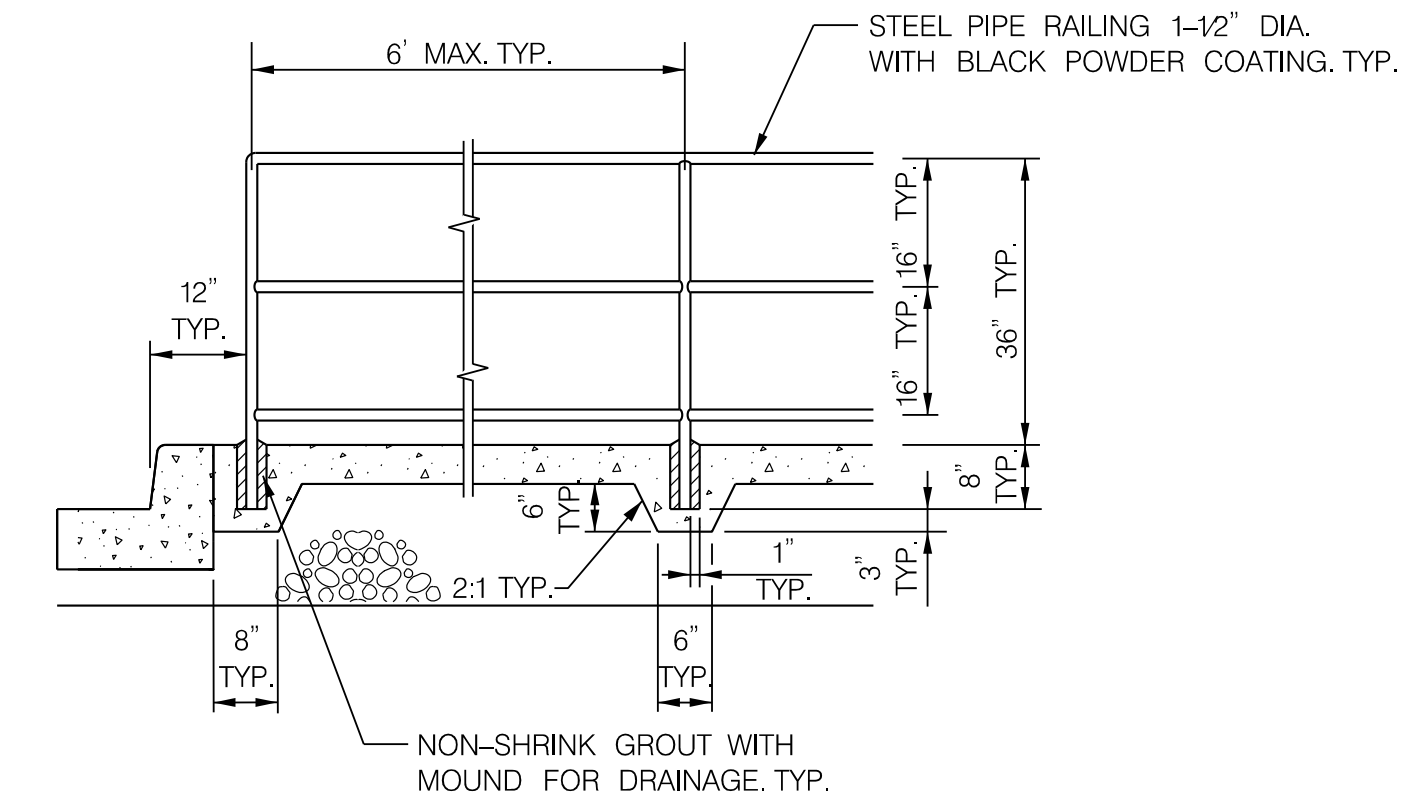
RAISED CROSSWALK
NOT TO SCALE



SECTION A-A



SECTION B-B



RAILING AT SIDE BOARDING ISLAND STOP
NOT TO SCALE

OWNER / ADDRESS:
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DESIGN SECTION
240-777-7221

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
ROCKVILLE, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Transportation Planning and Design Section _____ Date _____

APPROVED

Chief, Division of Transportation Engineering _____ Date _____

DESIGNED BY: OG DRAWN BY: TM CHECKED BY: TMB

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING

**CARROLL AVENUE
SEPARATED BIKE LANES**
MERRIMAC DRIVE TO PINEY BRANCH ROAD

GENERAL DETAILS

SCALE AS SHOWN DATE JULY 2023

DRAWING NO. DE-01 OF 01 SHEET NO. 5 OF 36

NO.	REVISION	DATE	BY

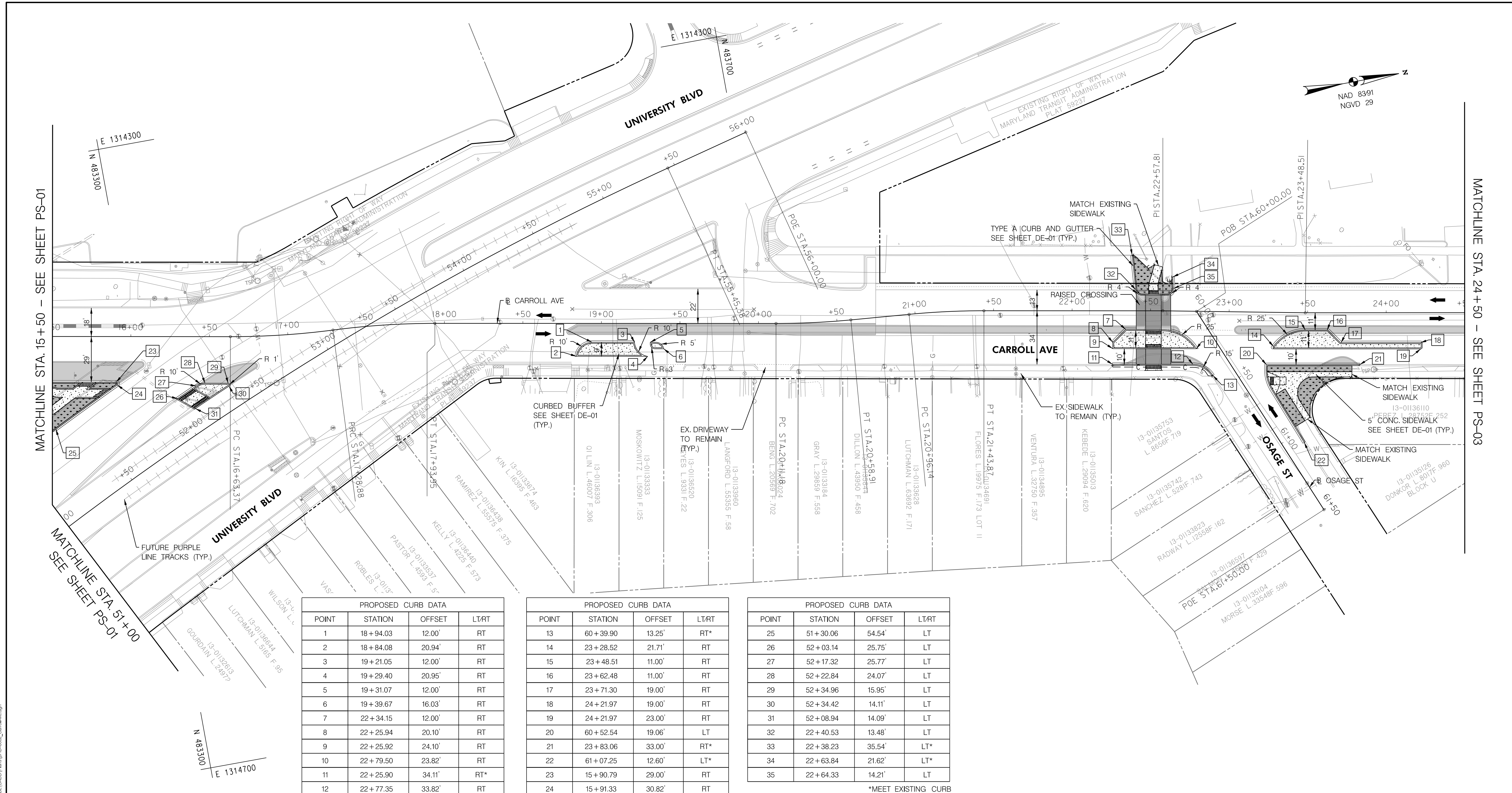
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PROPOSED CURB DATA			
POINT	STATION	OFFSET	LT/RT
1	18+94.03	12.00'	RT
2	18+84.08	20.94'	RT
3	19+21.05	12.00'	RT
4	19+29.40	20.95'	RT
5	19+31.07	12.00'	RT
6	19+39.67	16.03'	RT
7	22+34.15	12.00'	RT
8	22+25.94	20.10'	RT
9	22+25.92	24.10'	RT
10	22+79.50	23.82'	RT
11	22+25.90	34.11'	RT*
12	22+77.35	33.82'	RT

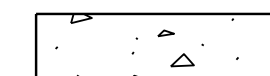


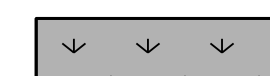
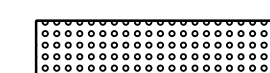
PROPOSED CURB DATA			
POINT	STATION	OFFSET	LT/RT
13	60+39.90	13.25'	RT*
14	23+28.52	21.71'	RT
15	23+48.51	11.00'	RT
16	23+62.48	11.00'	RT
17	23+71.30	19.00'	RT
18	24+21.97	19.00'	RT
19	24+21.97	23.00'	RT
20	60+52.54	19.06'	LT
21	23+83.06	33.00'	RT*
22	61+07.25	12.60'	LT*
23	15+90.79	29.00'	RT
24	15+91.33	30.82'	RT

PROPOSED CURB DATA			
POINT	STATION	OFFSET	LT/RT
25	51+30.06	54.54'	LT
26	52+03.14	25.75'	LT
27	52+17.32	25.77'	LT
28	52+22.84	24.07'	LT
29	52+34.96	15.95'	LT
30	52+34.42	14.11'	LT
31	52+08.94	14.09'	LT
32	22+40.53	13.48'	LT
33	22+38.23	35.54'	LT*
34	22+63.84	21.62'	LT*
35	22+64.33	14.21'	LT

*MEET EXISTING CURB

**35% DESIGN
NOT FOR
CONSTRUCTION**

LEGEND

-  CONCRETE SIDEWALK
-  TO BE DEMOLISHED/PROPOSED FULL DEPTH ASPHALT
-  PAVEMENT ASPHALT (RAISED CROSSWALK)
-  PROPOSED GRASS
-  DETECTABLE WARNING SURFACE

OWNER/ADDRESS:
MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
100 EDISON PARK DRIVE
GAITHERSBURG, MARYLAND

CONTACT:
DIVISION OF TRANSPORTATION
ENGINEERING
240-777-7220
DESIGN SECTION
240-777-7221

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
ROCKVILLE, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Transportation Planning and Design Section _____ Date _____
APPROVED

Chief, Division of Transportation Engineering _____ Date _____

DESIGNED BY: OG DRAWN BY: TM CHECKED BY: TMB

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING

**CARROLL AVENUE
SEPARATED BIKE LANES
MERRIMAC DRIVE TO PINEY BRANCH ROAD**

ROADWAY PLANS

SCALE 1"=30' DATE JULY 2023

DRAWING NO. PS-02 OF 04 SHEET NO. 7 OF 36



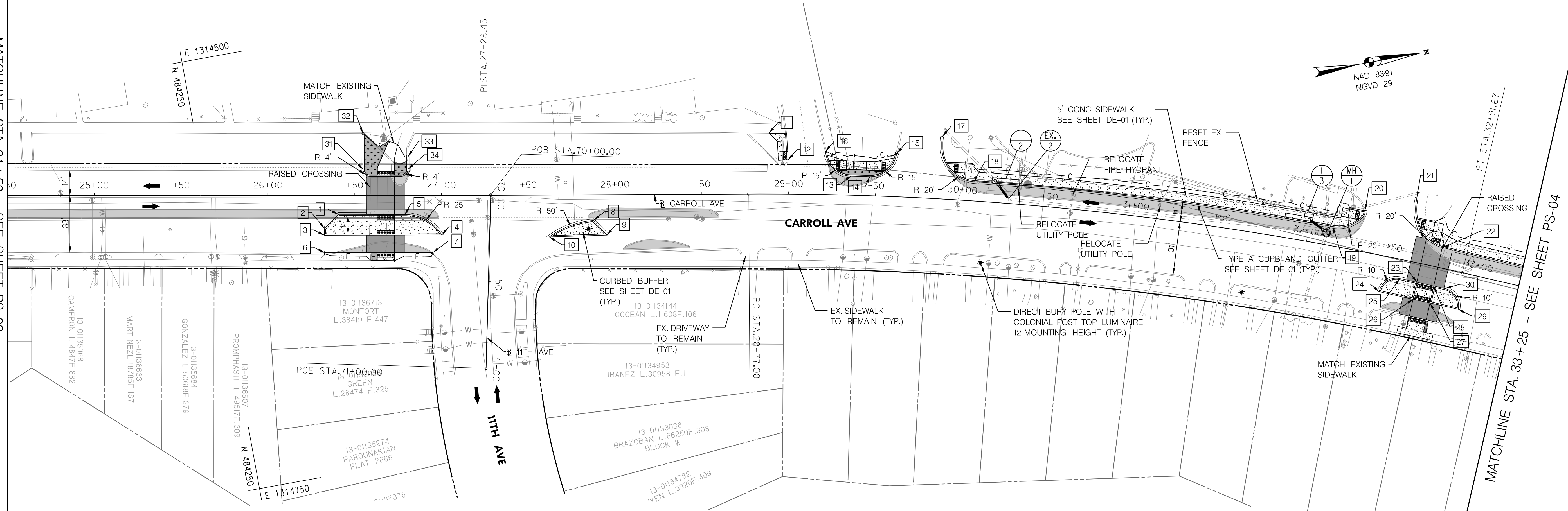
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MATCHLINE STA. 24+50 - SEE SHEET PS-02



PROPOSED CURB DATA			
POINT	STATION	OFFSET	LT/RT
1	26+40.64	11.00'	RT
2	26+32.61	19.00'	RT
3	26+32.61	23.00'	RT
4	27+00.20	22.81'	RT
5	26+79.03	11.00'	RT
6	26+32.61	32.98'	RT*
7	26+94.94	33.01'	RT*
8	27+87.34	14.81'	RT
9	27+95.29	23.30'	RT
10	27+62.05	24.12'	RT
11	28+88.69	35.02'	LT*
12	28+99.63	19.68'	LT*

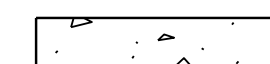


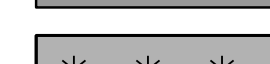
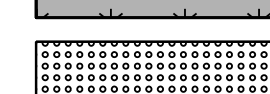
PROPOSED CURB DATA			
POINT	STATION	OFFSET	LT/RT
13	29+35.65	11.00'	LT
14	29+46.56	11.00'	LT
15	29+61.43	24.99'	LT*
16	29+20.67	24.75'	LT*
17	29+86.59	35.87'	LT*
18	30+06.12	11.00'	LT
19	32+13.37	11.00'	LT
20	32+29.77	23.58'	LT*
21	32+57.15	36.59'	LT*
22	32+77.60	11.68'	LT
23	32+67.15	11.00'	RT
24	32+46.85	20.76'	RT

PROPOSED CURB DATA			
POINT	STATION	OFFSET	LT/RT
25	32+57.09	10.92'	RT
26	32+67.08	21.01'	RT
27	32+77.20	21.12'	RT
28	32+77.21	11.05'	RT
29	32+94.02	21.00'	RT
30	32+83.90	11.00'	RT
31	26+54.81	14.99'	LT
32	26+54.78	35.65'	LT*
33	26+80.66	22.16'	LT*
34	26+80.66	15.00'	LT

*MEET EXISTING CURB

35% DESIGN NOT FOR CONSTRUCTION

LEGEND

-  CONCRETE SIDEWALK
-  TO BE DEMOLISHED/PROPOSED FULL DEPTH ASPHALT
-  PAVEMENT ASPHALT (RAISED CROSSWALK)
-  PROPOSED GRASS
-  DETECTABLE WARNING SURFACE

OWNER/ADDRESS:
 MONTGOMERY COUNTY
 DEPARTMENT OF TRANSPORTATION
 100 EDISON PARK DRIVE
 GAITHERSBURG, MARYLAND

CONTACT:
 DIVISION OF TRANSPORTATION
 ENGINEERING
 240-777-7220
 DESIGN SECTION
 240-777-7221

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
 DEPARTMENT OF TRANSPORTATION
 ROCKVILLE, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Transportation Planning and Design Section _____ Date _____
 APPROVED

Chief, Division of Transportation Engineering _____ Date _____

DESIGNED BY OG DRAWN BY TM CHECKED BY TMB

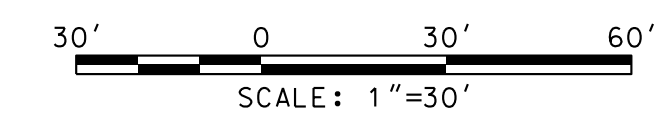
MONTGOMERY COUNTY
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF TRANSPORTATION ENGINEERING

**CARROLL AVENUE
 SEPARATED BIKE LANES
 MERRIMAC DRIVE TO PINEY BRANCH ROAD**

ROADWAY PLANS

SCALE 1"=30' DATE JULY 2023

DRAWING NO. PS-03 OF 04 SHEET NO. 8 OF 36



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 PLOT DATE: 7/26/2023
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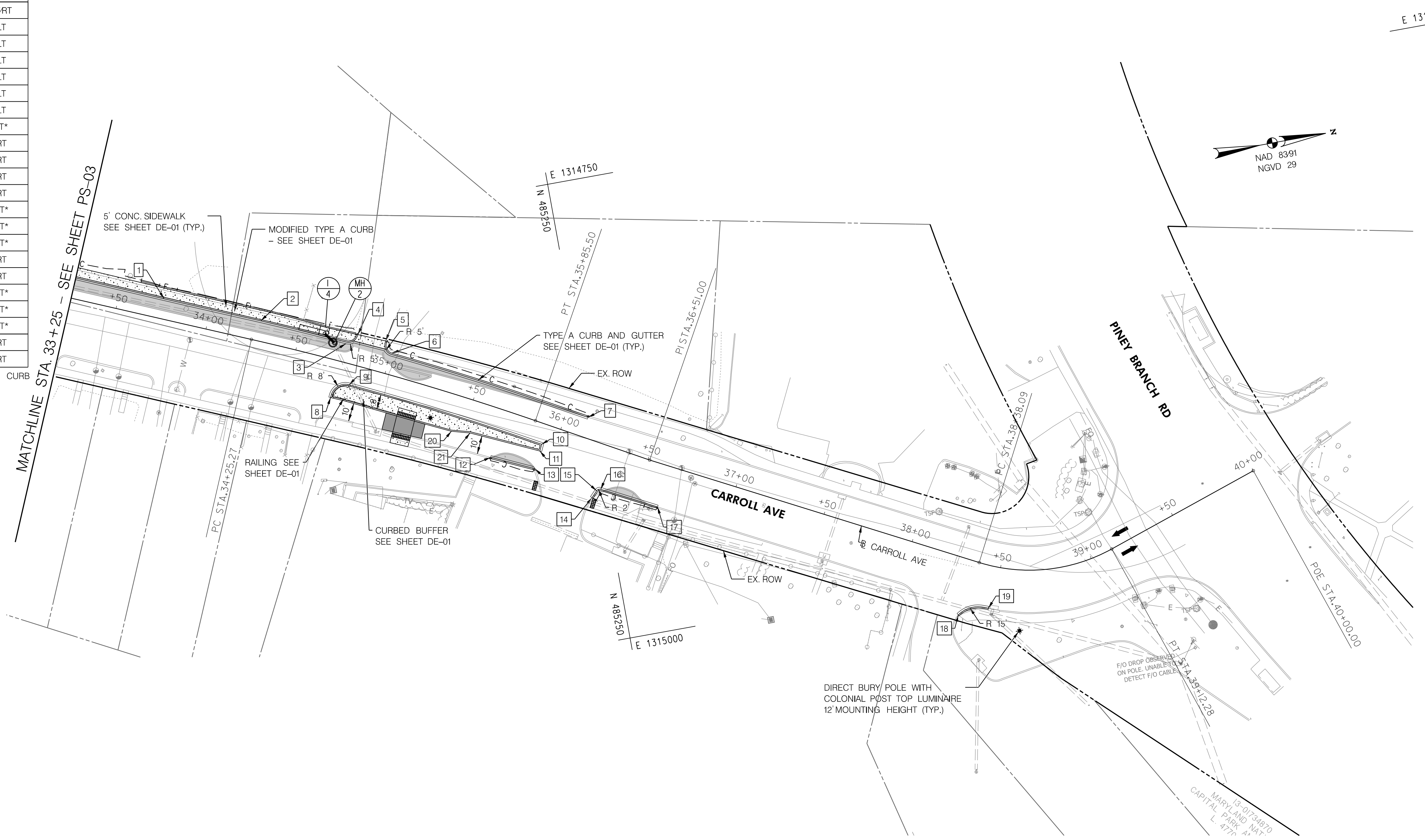
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PROPOSED CURB DATA			
POINT	STATION	OFFSET	LTRT
1	33+74.13	11.00'	LT
2	34+28.00	11.00'	LT
3	34+74.51	11.00'	LT
4	34+79.64	17.98'	LT
5	34+95.09	19.17'	LT
6	35+00.18	11.00'	LT
7	35+54.73	11.00'	LT*
8	34+74.82	20.31'	RT
9	34+82.90	11.00'	RT
10	35+92.85	11.00'	RT
11	35+93.15	14.77'	RT
12	35+68.13	24.20'	RT*
13	35+92.97	22.99'	RT*
14	36+27.09	28.76'	RT*
15	36+28.37	24.43'	RT
16	36+30.29	23.00'	RT
17	36+62.54	23.00'	RT*
18	38+35.57	30.50'	RT*
19	38+47.70	22.79'	RT*
20	35+43.72	19.73'	RT
21	35+53.76	17.54'	RT

*MEET EXISTING CURB



**35% DESIGN
NOT FOR
CONSTRUCTION**

LEGEND

	CONCRETE SIDEWALK
	TO BE DEMOLISHED/PROPOSED FULL DEPTH ASPHALT
	PAVEMENT ASPHALT (RAISED CROSSWALK)
	PROPOSED GRASS
	DETECTABLE WARNING SURFACE

OWNER / ADDRESS:
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100 EDISON PARK DRIVE
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DESIGN SECTION
240-777-7221

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ROCKVILLE, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Transportation Planning and Design Section _____ Date _____
APPROVED

Chief, Division of Transportation Engineering _____ Date _____

DESIGNED BY OG DRAWN BY TM CHECKED BY TMB

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING

**CARROLL AVENUE
SEPARATED BIKE LANES**
MERRIMAC DRIVE TO PINEY BRANCH ROAD

ROADWAY PLANS

SCALE 1"=30' DATE JULY 2023

DRAWING NO. PS-04 OF 04 SHEET NO. 9 OF 36

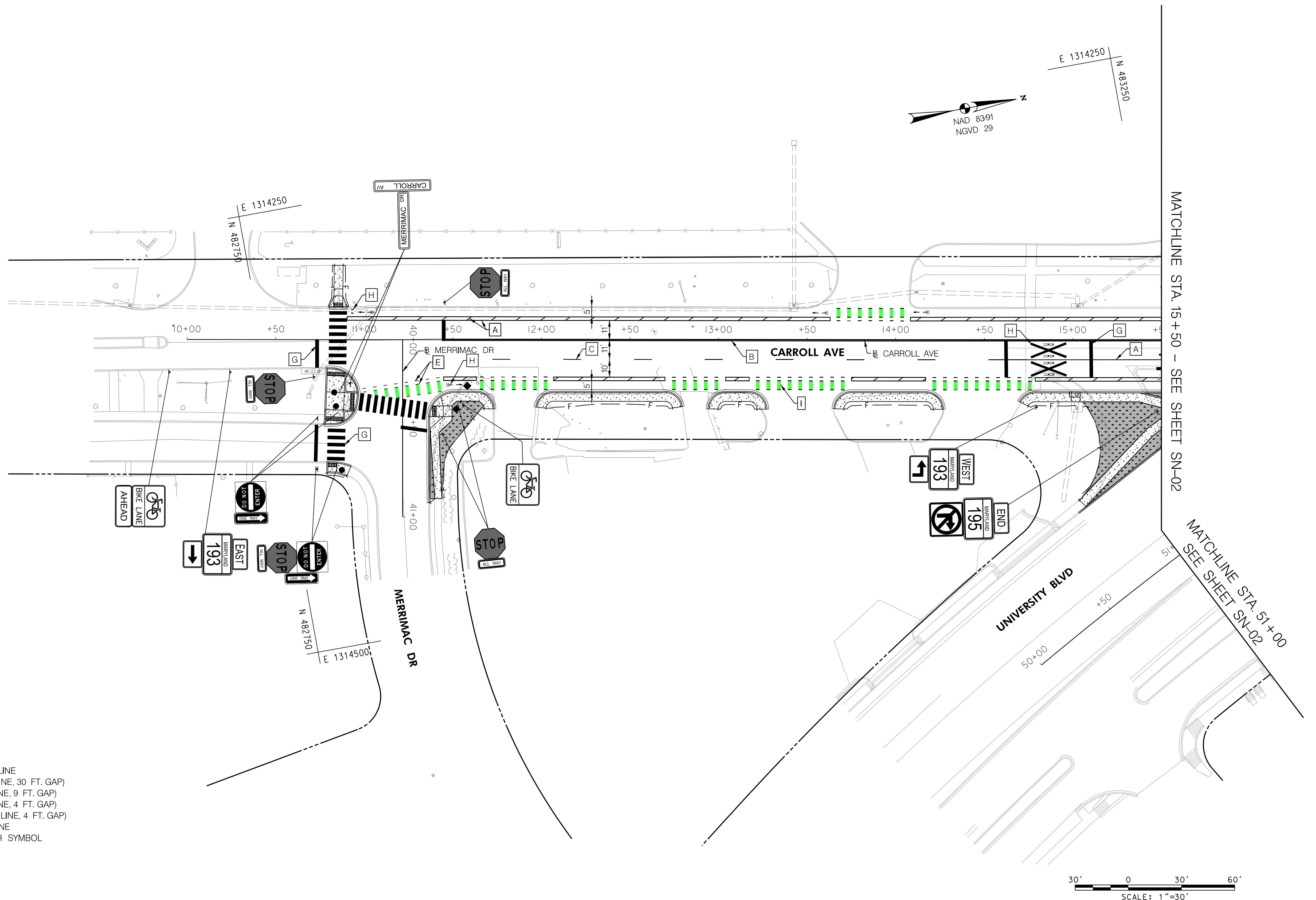
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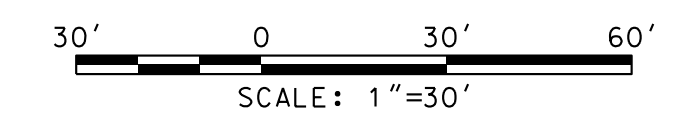
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LEGEND

- EXISTING SIGN TO BE RELOCATED
- EXISTING SIGN TO BE REMOVED
- EXISTING GROUND MOUNTED SIGN
- ▽ PROPOSED GROUND MOUNTED SIGN
- A 5 IN. SOLID WHITE THERMOPLASTIC PAVEMENT MARKING LINE
- B 5 IN. SOLID DOUBLE YELLOW THERMOPLASTIC PAVEMENT MARKING LINE
- C 5 IN. SKIP WHITE THERMOPLASTIC PAVEMENT MARKING LINE (10 FT. LINE, 30 FT. GAP)
- D 5 IN. SKIP WHITE THERMOPLASTIC PAVEMENT MARKING LINE (3 FT. LINE, 9 FT. GAP)
- E 5 IN. SKIP WHITE THERMOPLASTIC PAVEMENT MARKING LINE (2 FT. LINE, 4 FT. GAP)
- F 5 IN. SKIP YELLOW THERMOPLASTIC PAVEMENT MARKING LINE (2 FT. LINE, 4 FT. GAP)
- G 24 IN. SOLID WHITE PERMANENT PREFORMED PAVEMENT MARKING LINE
- H WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING, ARROW OR SYMBOL
- I GREEN PAVEMENT MARKING

**35% DESIGN
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CONSTRUCTION**



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DESIGN SECTION
240-777-7221

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
ROCKVILLE, MARYLAND

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Chief, Transportation Planning and Design Section _____ Date _____
APPROVED

Chief, Division of Transportation Engineering _____ Date _____

DESIGNED BY OG DRAWN BY TM CHECKED BY TMB

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING

**CARROLL AVENUE
SEPARATED BIKE LANES
MERRIMAC DRIVE TO PINEY BRANCH ROAD**

SIGNING & PAVEMENT MARKING PLANS

SCALE 1"=30' DATE JULY 2023

DRAWING NO. SN-01 OF 04 SHEET NO. 10 OF 36

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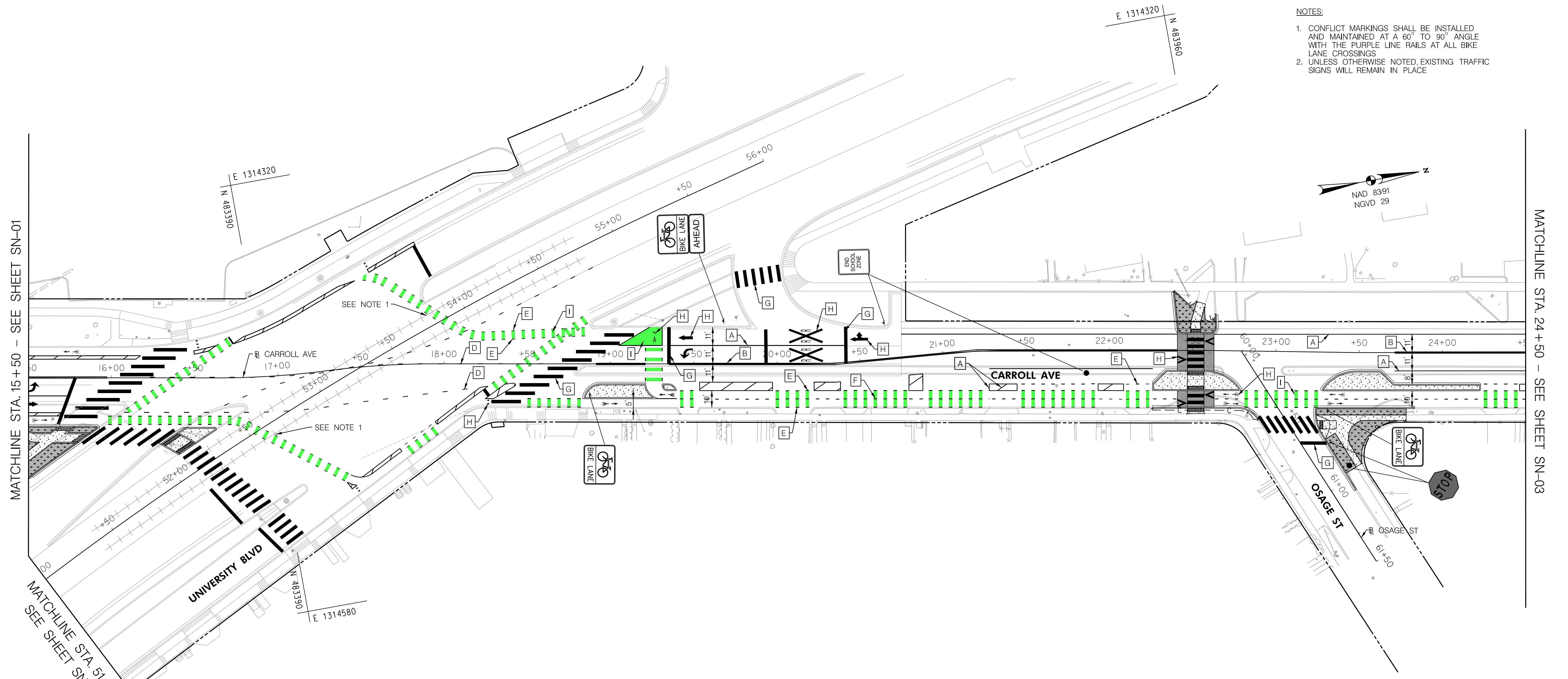
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NOTES:

1. CONFLICT MARKINGS SHALL BE INSTALLED AND MAINTAINED AT A 60° TO 90° ANGLE WITH THE PURPLE LINE RAILS AT ALL BIKE LANE CROSSINGS
2. UNLESS OTHERWISE NOTED, EXISTING TRAFFIC SIGNS WILL REMAIN IN PLACE



LEGEND

- EXISTING SIGN TO BE RELOCATED
- EXISTING SIGN TO BE REMOVED
- EXISTING GROUND MOUNTED SIGN
- PROPOSED GROUND MOUNTED SIGN
- A 5 IN. SOLID WHITE THERMOPLASTIC PAVEMENT MARKING LINE
- B 5 IN. SOLID DOUBLE YELLOW THERMOPLASTIC PAVEMENT MARKING LINE
- C 5 IN. SKIP WHITE THERMOPLASTIC PAVEMENT MARKING LINE (10 FT. LINE, 30 FT. GAP)
- D 5 IN. SKIP WHITE THERMOPLASTIC PAVEMENT MARKING LINE (3 FT. LINE, 9 FT. GAP)
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- G 24 IN. SOLID WHITE PERMANENT PREFORMED PAVEMENT MARKING LINE
- H WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING, ARROW OR SYMBOL
- I GREEN PAVEMENT MARKING

**35% DESIGN
NOT FOR
CONSTRUCTION**



OWNER / ADDRESS:
MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
100 EDISON PARK DRIVE
GAITHERSBURG, MARYLAND

CONTACT:
DIVISION OF TRANSPORTATION
ENGINEERING
240-777-7220
DESIGN SECTION
240-777-7221

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
ROCKVILLE, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Transportation Planning and Design Section _____ Date _____
APPROVED

Chief, Division of Transportation Engineering _____ Date _____

DESIGNED BY OG DRAWN BY TM CHECKED BY TMB

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING

**CARROLL AVENUE
SEPARATED BIKE LANES
MERRIMAC DRIVE TO PINEY BRANCH ROAD**

SIGNING & PAVEMENT MARKING PLANS

SCALE 1"=30' DATE JULY 2023

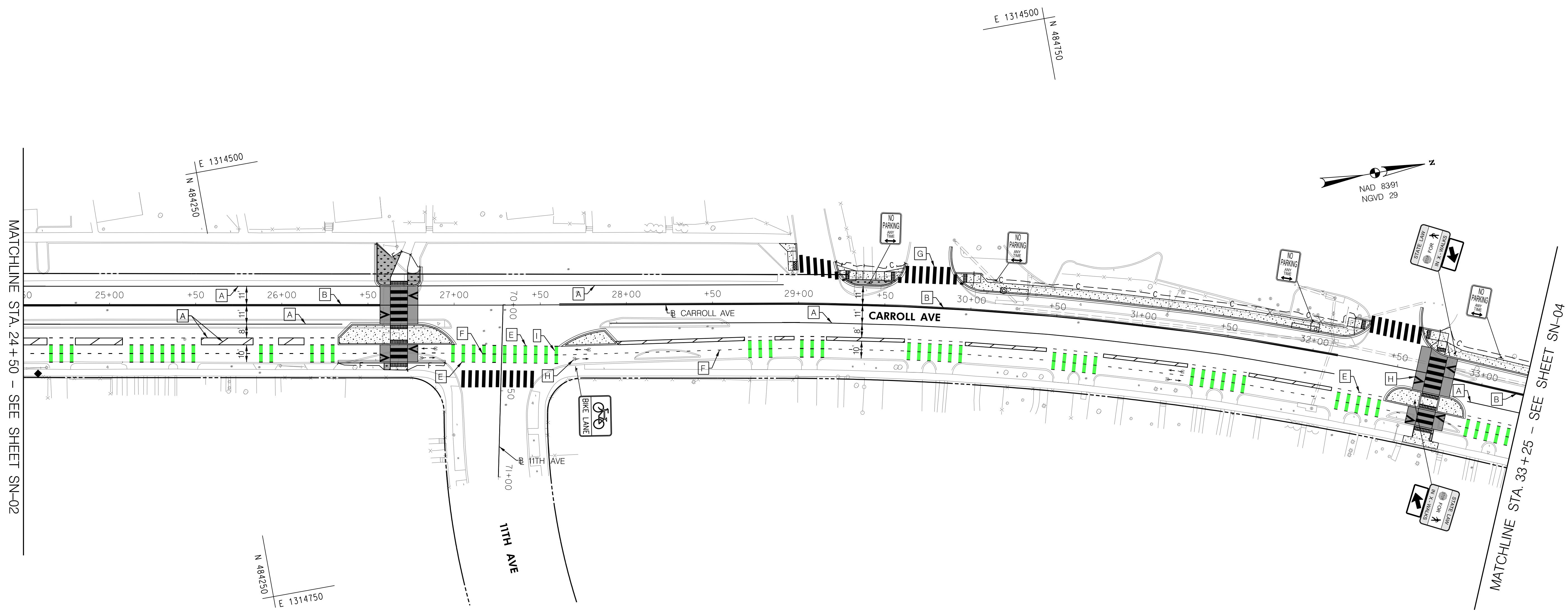
DRAWING NO. SN-02 OF 04 SHEET NO. 11 OF 36

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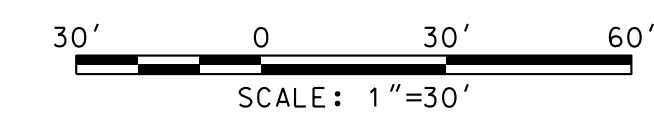
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LEGEND

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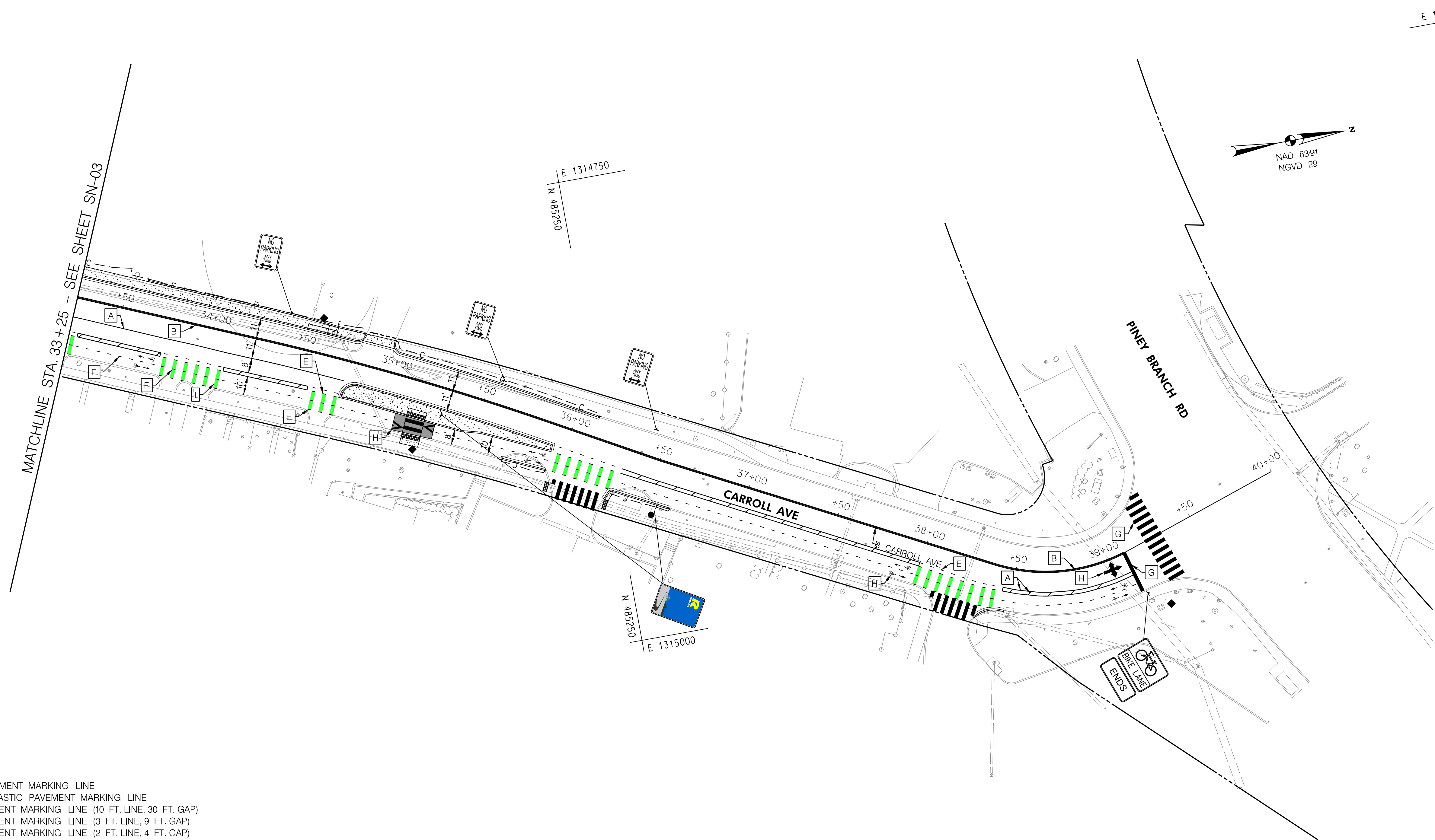
MONTGOMERY COUNTY
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**CARROLL AVENUE
 SEPARATED BIKE LANES**
 MERRIMAC DRIVE TO PINEY BRANCH ROAD

SIGNING & PAVEMENT MARKING PLANS

SCALE 1"=30' DATE JULY 2023

DRAWING NO. SN-03 OF 04 SHEET NO. 12 OF 36



LEGEND

- EXISTING SIGN TO BE RELOCATED
- EXISTING SIGN TO BE REMOVED
- EXISTING GROUND MOUNTED SIGN
- + PROPOSED GROUND MOUNTED SIGN
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MONTGOMERY COUNTY
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**CARROLL AVENUE
 SEPARATED BIKE LANES
 MERRIMAC DRIVE TO PINEY BRANCH ROAD**

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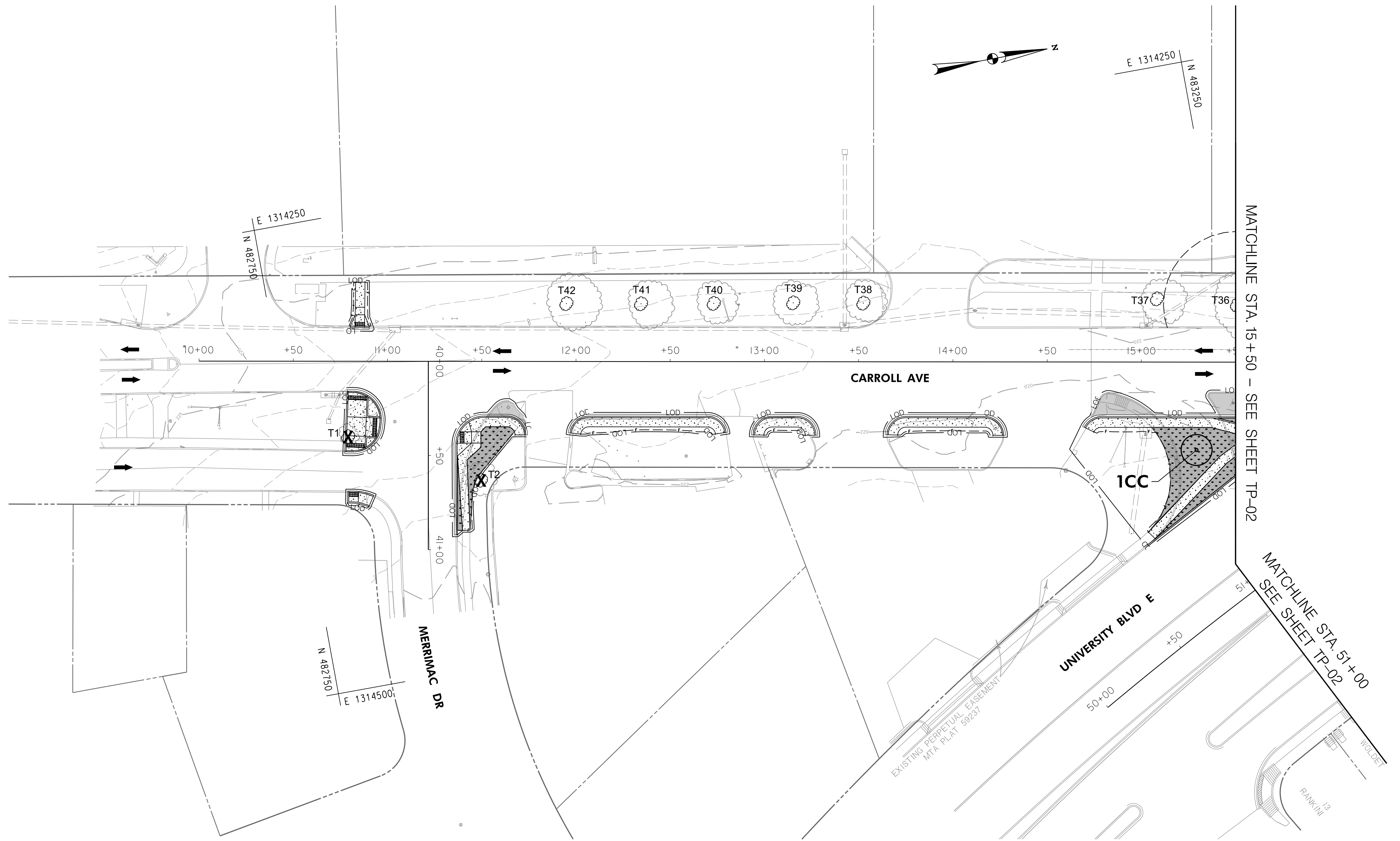
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NOTES:

- SEE TP-05 AND TP-06 FOR TREE INVENTORY TABLE, ROW TREE IMPACT TABLE, PLANTING SCHEDULE, DETAILS, AND FOREST CONSERVATION SEQUENCE OF EVENTS.
- TREE PROTECTION FENCE IS SHOWN OUTSIDE OF THE LOD FOR GRAPHICAL PURPOSES ONLY.
- WHERE LOD INTERFERES WITH CRZ, ROOT PRUNE ALONG LOD OR EDGE OF EXCAVATION AS DIRECTED BY MARYLAND LICENSED TREE EXPERT.

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LEGEND

- | | | | | |
|-------|--|---|--|--------------------------------|
| T-103 | | SIGNIFICANT TREE (24-29" DBH) WITH CRITICAL ROOT ZONE | | FOREST STAND BOUNDARY |
| T-102 | | SPECIMEN TREE (>30" DBH) WITH CRITICAL ROOT ZONE | | TREE CANOPY /HEDGEROW BOUNDARY |
| T-244 | | INDIVIDUAL TREES (6-23" DBH) | | EXISTING CONTOURS |
| | | TREE TO BE REMOVED | | PROPERTY BOUNDARY |
| | | PROPOSED TREE | | RIGHT-OF-WAY LINE |
| | | LIMIT OF CUT | | CONCRETE SIDEWALK |
| | | LIMIT OF FILL | | TO BE DEMOLISHED |
| | | LIMIT OF DISTURBANCE | | PAVEMENT ASPHALT |
| | | TREE PROTECTION FENCE | | TURFGRASS SOD ESTABLISHMENT |
| | | FOREST STAND/HEDGEROW LABEL | | DETECTABLE WARNING SURFACE |

OWNER / ADDRESS:
MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
100 EDISON PARK DRIVE
GAITHERSBURG, MARYLAND

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ENGINEERING
240-777-7220
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240-777-7221

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MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
ROCKVILLE, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Transportation Planning and Design Section _____ Date _____
APPROVED

Chief, Division of Transportation Engineering _____ Date _____

DESIGNED BY: SJF DRAWN BY: DEA CHECKED BY: MH

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING

CARROLL AVENUE
SEPARATED BIKE LANES
MERRIMAC DRIVE TO PINEY BRANCH ROAD

TREE SAVE PLAN

SCALE 1"=30' DATE JULY 2023

DRAWING NO. TP-01 OF 06 SHEET NO. 14 OF 36

Sarah Falcone 7-26-2023
Maryland DNR Qualified Professional
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sfalcone@rkk.com

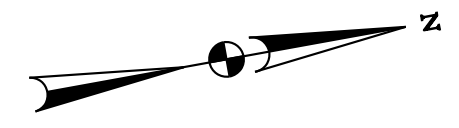
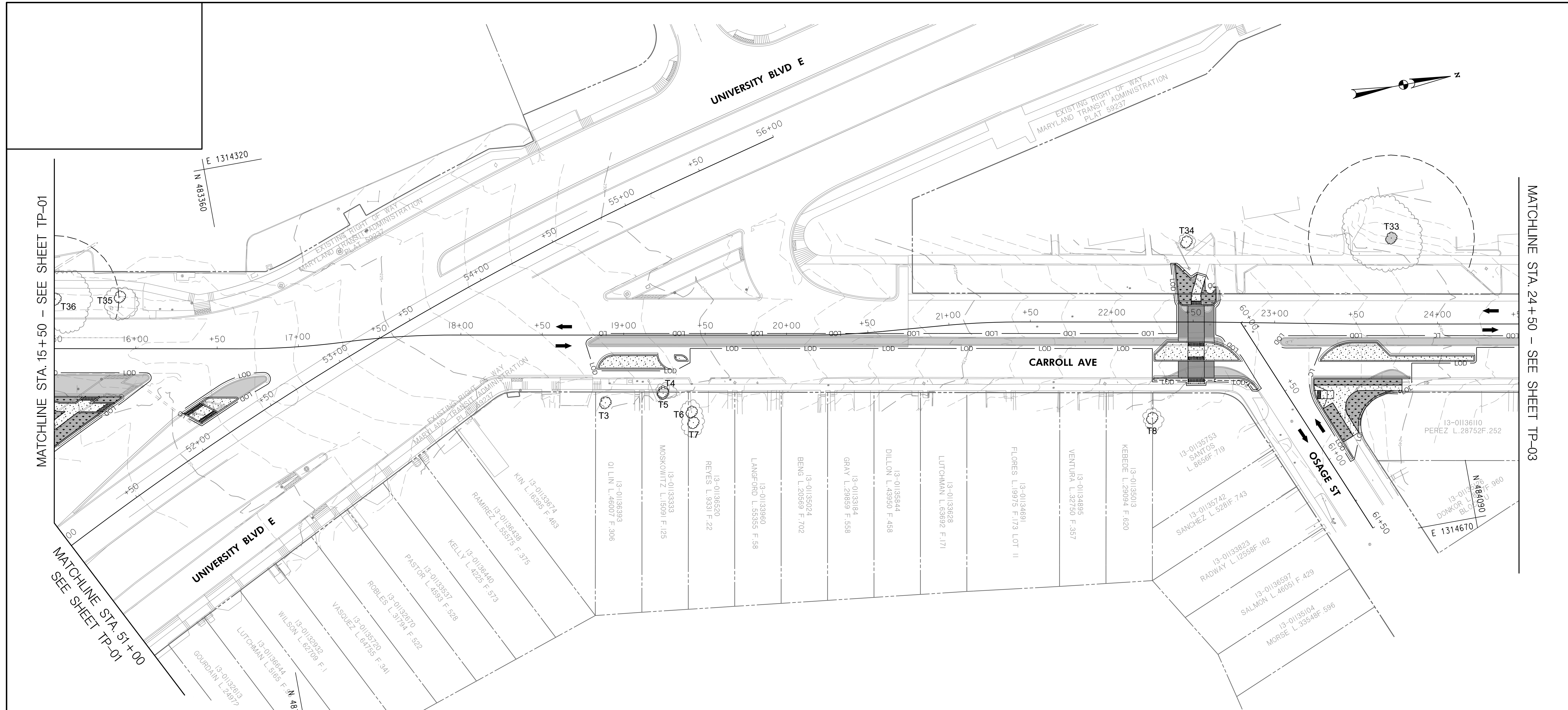
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- NOTES:**
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(O)	PROPOSED TREE
(---C---)	LIMIT OF CUT
(---F---)	LIMIT OF FILL
(---L---)	LIMIT OF DISTURBANCE
(---TPF---	TREE PROTECTION FENCE
FS1 / HR1	FOREST STAND/ HEDGEROW LABEL
(~~~~~)	FOREST STAND BOUNDARY
(~~~~~)	TREE CANOPY / HEDGEROW BOUNDARY
(---120---	EXISTING CONTOURS
(--- ---)	PROPERTY BOUNDARY
(--- ---)	RIGHT-OF-WAY LINE
(--- ---)	CONCRETE SIDEWALK
(--- ---)	TO BE DEMOLISHED
(--- ---)	PAVEMENT ASPHALT
(--- ---)	TURFGRASS SOD ESTABLISHMENT
(--- ---)	DETECTABLE WARNING SURFACE

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CONTACT:
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 ENGINEERING
 240-777-7220
 DESIGN SECTION
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MONTGOMERY COUNTY
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Chief, Transportation Planning and Design Section
 APPROVED _____ Date _____

Chief, Division of Transportation Engineering
 APPROVED _____ Date _____

DESIGNED BY: SJF DRAWN BY: DEA CHECKED BY: MJH

MONTGOMERY COUNTY
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF TRANSPORTATION ENGINEERING

**CARROLL AVENUE
 SEPARATED BIKE LANES**
 MERRIMAC DRIVE TO PINEY BRANCH ROAD

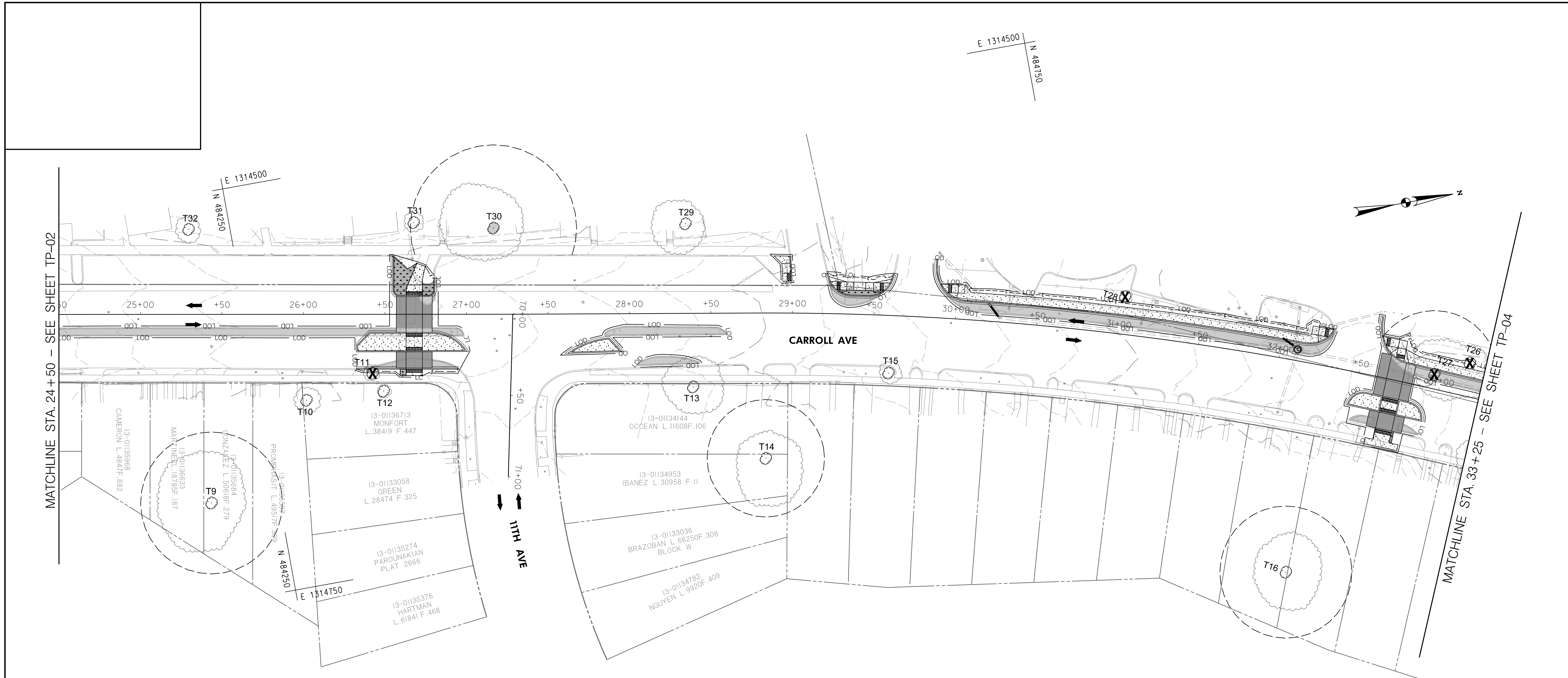
TREE SAVE PLAN

SCALE 1"=30' DATE JULY 2023

DRAWING NO. TP-02 OF 06 SHEET NO. 15 OF 36

Sarah Falco 7-26-2023
 Maryland DNR Qualified Professional
 Name: Sarah Falco
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 Phone: 410-482-9483
 sfalco@rkk.com

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NOTES:

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 GAITHERSBURG, MARYLAND

CONTACT:
 DIVISION OF TRANSPORTATION
 ENGINEERING
 240-777-7220
 DESIGN SECTION
 240-777-7221

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
 DEPARTMENT OF TRANSPORTATION
 ROCKVILLE, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Transportation Planning and Design Section _____ Date _____
 APPROVED

Chief, Division of Transportation Engineering _____ Date _____

DESIGNED BY: SJF DRAWN BY: DEA CHECKED BY: MJH

MONTGOMERY COUNTY
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF TRANSPORTATION ENGINEERING

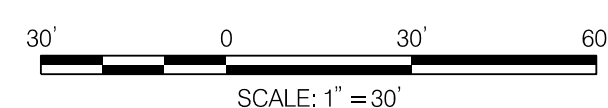
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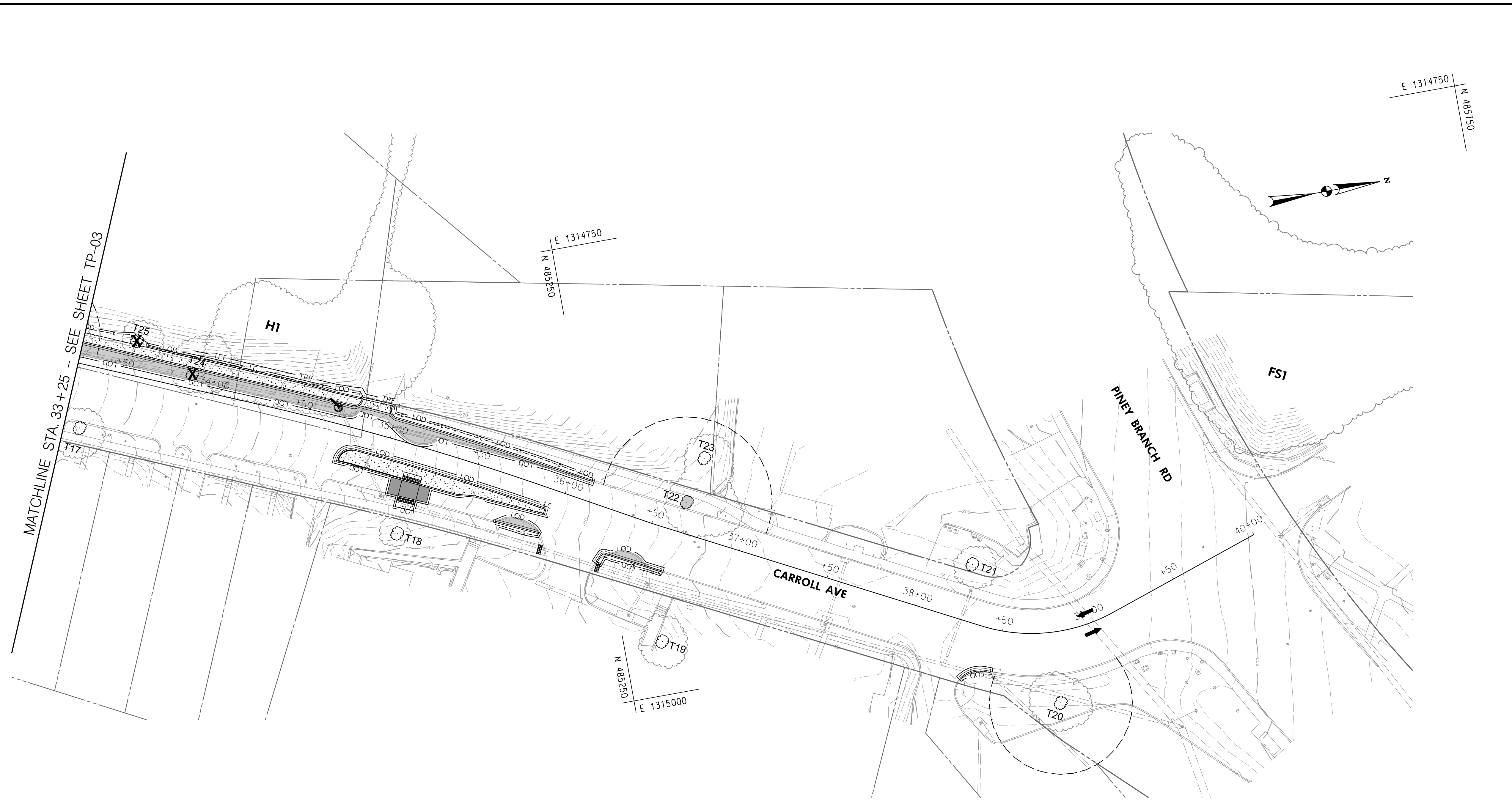
TREE SAVE PLAN

SCALE 1"=30' DATE JULY 2023

DRAWING NO. TP-03 OF 06 SHEET NO. 16 OF 36

Sarah Falcone 7-26-2023
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 Phone: 410-482-9483
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Sarah Falcone 7-26-2023
Date

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OWNER / ADDRESS: MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION 100 EDISON PARK DRIVE GAITHERSBURG, MARYLAND		MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION ROCKVILLE, MARYLAND		MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION DIVISION OF TRANSPORTATION ENGINEERING CARROLL AVENUE SEPARATED BIKE LANES MERRIMAC DRIVE TO PINEY BRANCH ROAD TREE SAVE PLAN	
CONTACT: DIVISION OF TRANSPORTATION ENGINEERING 240-777-7220 DESIGN SECTION 240-777-7221		RECOMMENDED FOR APPROVAL Chief, Transportation Planning and Design Section APPROVED _____ Date _____ Chief, Division of Transportation Engineering APPROVED _____ Date _____		SCALE 1" = 30' DATE JULY 2023	
NO.	REVISION	DATE	BY	DESIGNED BY: <u>SJF</u>	DRAWN BY: <u>DEA</u>
				CHECKED BY: <u>MH</u>	
				DRAWING NO. TP-04	OF 06
				SHEET NO. 17 OF 36	

Attachment A: Corridor Engineering Drawings

RIGHT-OF-WAY PLANTING SCHEDULE				
Key	Scientific Name/Common Name	Quantity	Size	Placement
CC	<i>Cercis canadensis</i> /Eastern redbud	1	1" caliper, #15 container	As shown

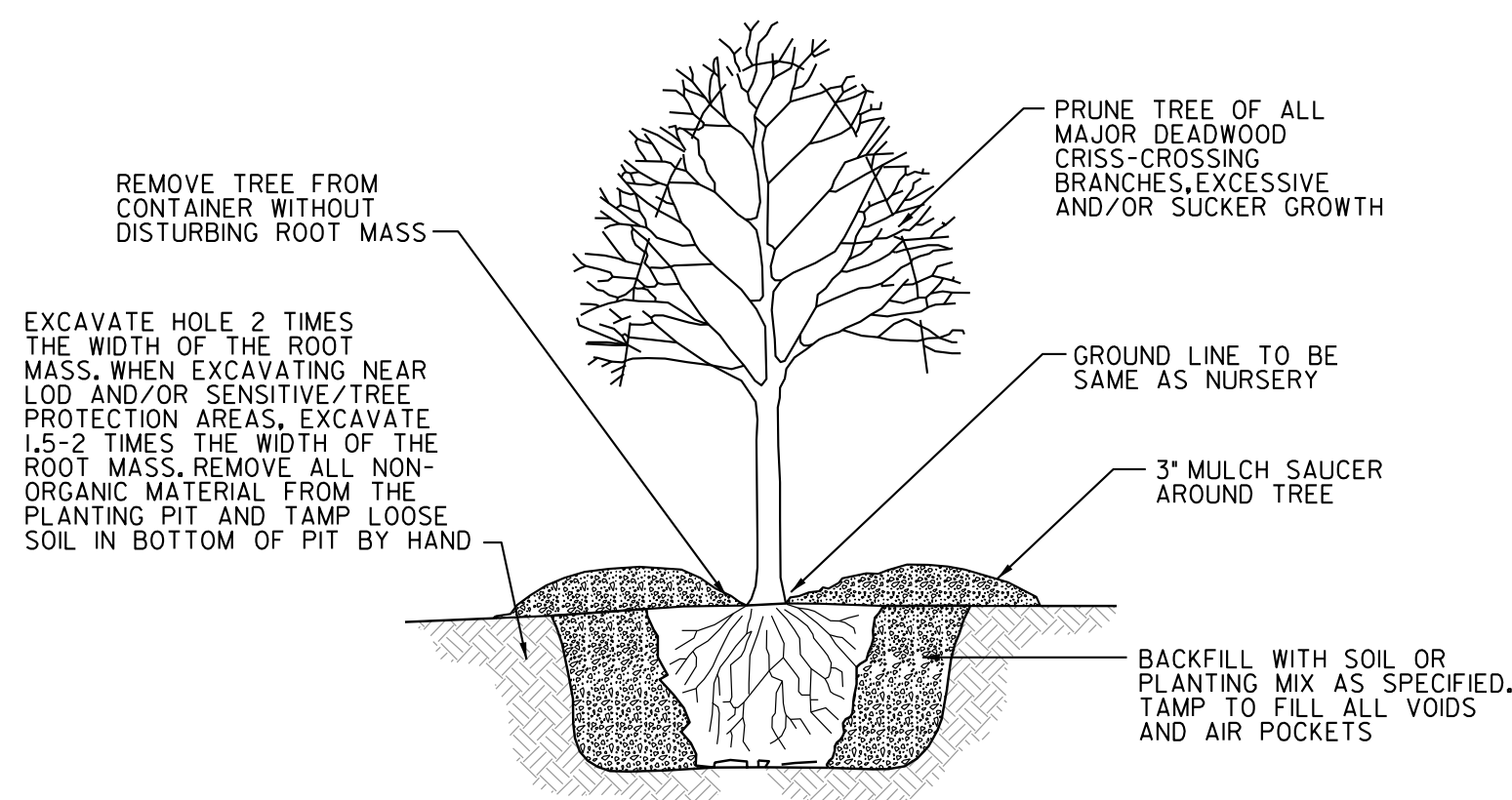
SEEDING SCHEDULE	
Type	Quantity (SY)
Turfgrass Sod Establishment	344

RIGHT-OF-WAY TREE IMPACTS AND MITIGATION REQUIREMENTS			
Location	Number of Trees Removed	Mitigation Ratio	Required Planting*
County ROW	3	3:1 for trees greater than or equal to 6" DBH	9

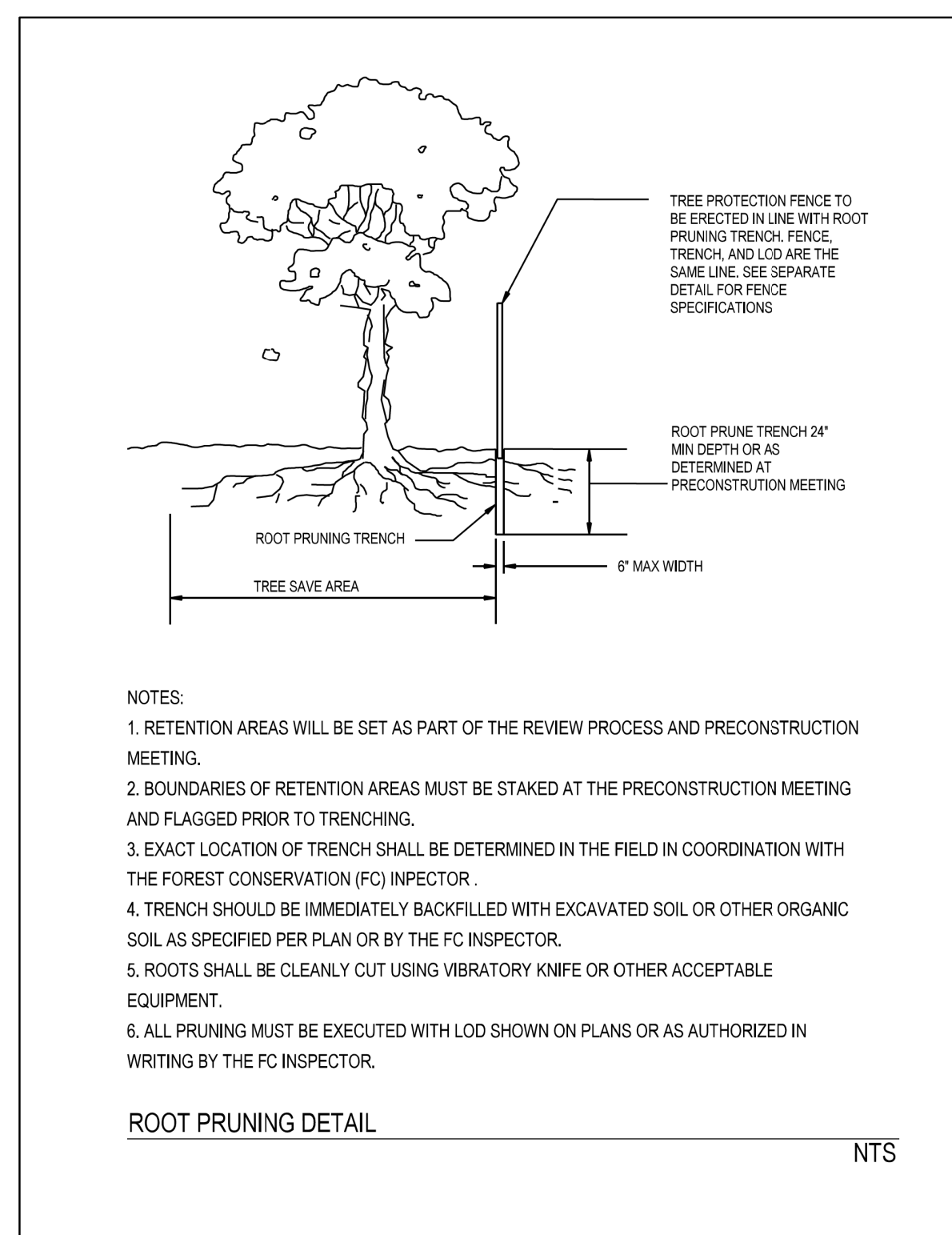
*To meet the Montgomery County Roadside Tree Law 3:1 replacement requirement, one tree is being proposed within the existing right-of-way. To meet the remaining replacement requirement (eight trees), \$250 per replacement tree will be paid into the Street Tree Fund prior to construction for a total of \$2,000.

TREE ID	SCIENTIFIC NAME	COMMON NAME	DBH	CONDITION	COMMENTS	REMOVAL	IN ROW
T1	<i>Acer rubrum</i>	Red maple	7	Good/Fair	Minor trunk wound, minor dead branches, minor pruning	X	X
T2	<i>Platanus occidentalis</i>	American sycamore	13	Good		X	X
T3	<i>Lagerstroemia indica</i>	Crape myrtle	6	Good/Fair	Multistem, fused leaders		
T4	<i>Ulmus americana</i>	American elm	8	Fair	Twin (8, 7), exposed roots, water sprouts		X
T5	<i>Ulmus americana</i>	American elm	7	Fair	Minor lean, one-sided canopy		
T6	<i>Quercus phellos</i>	Willow oak	10	Fair	Heavy vines, minor lean, minor dead branches, one-sided canopy		
T7	<i>Morus alba</i>	White mulberry	10	Fair/Poor	Twisted trunk, heavy vines, growing into power lines, pruned, sparse canopy, water sprouts		
T8	<i>Quercus phellos</i>	Willow oak	14	Fair/Poor	Major vines into canopy, growing on driveway		
T9*	<i>Quercus phellos</i>	Willow oak	29	Good			
T10	<i>Prunus serotina</i>	Black cherry	10	Poor	Multistem (10, 6, 6), main stem split, pruned, poor growth form		
T11	<i>Acer saccharum</i>	Sugar maple	9	Poor	Trunk decay, dying canopy, sapsucker damage	X	X
T12	<i>Fraxinus pennsylvanica</i>	Green ash	6	Good			
T13	<i>Pinus strobus</i>	White pine	17	Good/Fair	Slight lean, sparse canopy		
T14*	<i>Quercus falcata</i>	Southern red oak	24	Fair/Poor	Slight lean, one-sided and sparse canopy, dead branches, vines on trunk		
T15	<i>Morus alba</i>	White mulberry	12	Fair/Poor	Twin (12, 8), damaged roots, heavy lean, pruned canopy, included bark		X
T16*	<i>Acer saccharinum</i>	Silver maple	27	Good	Minor broken branches		
T17	<i>Acer rubrum</i>	Red maple	17	Fair/Poor	Damaged roots, pruned, trunk wounds, dying crown, slight lean		X
T18	<i>Acer rubrum</i>	Red maple	8	Good/Fair	Slight lean		
T19	<i>Gleditsia triacanthos</i>	Honey locust	19		Pruned, water sprouts, dead branches, one-sided canopy, exposed roots		
T20*	<i>Quercus palustris</i>	Pin oak	26	Good/Fair	Pruned, exposed roots		X
T21	<i>Morus alba</i>	White mulberry	8	Fair	Multistem (6-8), heavily pruned, interfering branches		
T22**	<i>Quercus palustris</i>	Pin oak	31	Fair	Trunk cavity with decay near base, exposed roots, pruned		X
T23	<i>Prunus sp.</i>	Cherry sp.	8	Fair/Poor	Heavily pruned, one-sided canopy, dead branches, exposed roots		
T24	<i>Quercus palustris</i>	Pin oak	22	Fair	Twin (22, 18), one-sided canopy, dead branches	X	
T25	<i>Acer rubrum</i>	Red maple	12	Poor	Vines into canopy, dead leader	X	
T26	<i>Acer rubrum</i>	Red maple	7	Good/Fair	Dead branches	X	
T27*	<i>Quercus palustris</i>	Pin oak	26	Good	Exposed roots	X	
T28	<i>Acer rubrum</i>	Red maple	6	Fair/Poor	Significant dead branches, water sprouts	X	
T29	<i>Pinus strobus</i>	White pine	19	Fair	Lean, one-sided branches, pruned		
T30**	<i>Quercus nigra</i>	Water oak	34	Fair	Exposed roots, heavily pruned, one-sided canopy, leader wound and decay		
T31	<i>Prunus serotina</i>	Black cherry	9	Good/Fair	Splits above DBH, lean, one-sided canopy		
T32	<i>Prunus sp.</i>	Cherry sp.	10	Good/Fair	Lean, heavily pruned		
T33**	<i>Quercus nigra</i>	Water oak	34	Fair/Poor	Fungus on trunk, exposed roots, heavily pruned, dead branches, water sprouts, broken leader		
T34	<i>Prunus sp.</i>	Cherry sp.	8	Fair/Poor	Dead branches, lean, pruned		
T35	<i>Acer saccharum</i>	Sugar maple	14	Good/Fair	Unusual growth form		X
T36*	<i>Acer rubrum</i>	Red maple	26	Good/Fair	Minor vines, healed trunk wound at base		X
T37	<i>Acer saccharum</i>	Sugar maple	15	Good/Fair	Girdling roots		X
T38	<i>Acer saccharum</i>	Sugar maple	14	Good			X
T39	<i>Acer rubrum</i>	Red maple	12	Good			X
T40	<i>Acer rubrum</i>	Red maple	10	Fair	Dead branches, sparse canopy		X
T41	<i>Acer rubrum</i>	Red maple	12	Good/Fair	Girdling roots		X
T42	<i>Acer rubrum</i>	Red maple	13	Good			X

*Significant tree
**Specimen tree



TREE/SHRUB PLANTING - CONTAINER GROWN
NOT TO SCALE



NOTES:

1. RETENTION AREAS WILL BE SET AS PART OF THE REVIEW PROCESS AND PRECONSTRUCTION MEETING.
2. BOUNDARIES OF RETENTION AREAS MUST BE STAKED AT THE PRECONSTRUCTION MEETING AND FLAGGED PRIOR TO TRENCHING.
3. EXACT LOCATION OF TRENCH SHALL BE DETERMINED IN THE FIELD IN COORDINATION WITH THE FOREST CONSERVATION (FC) INSPECTOR.
4. TRENCH SHOULD BE IMMEDIATELY BACKFILLED WITH EXCAVATED SOIL OR OTHER ORGANIC SOIL AS SPECIFIED PER PLAN OR BY THE FC INSPECTOR.
5. ROOTS SHALL BE CLEANLY CUT USING VIBRATORY KNIFE OR OTHER ACCEPTABLE EQUIPMENT.
6. ALL PRUNING MUST BE EXECUTED WITH LOD SHOWN ON PLANS OR AS AUTHORIZED IN WRITING BY THE FC INSPECTOR.

ROOT PRUNING DETAIL
NTS

TREE CONDITION ASSESSMENT GUIDELINES

- > **Excellent** - healthy tree with exceptional growth form; no visible defects; well-formed crown; few minor dead branches acceptable; this tree condition is rare.
- > **Good** - healthy tree; very minor defects/decay acceptable with callous forming/complete; well-formed crown; minor lean and/or few minor/major dead branches acceptable; vines may be growing along trunk but not present within crown.
- > **Fair** - health questionable/stress evident; structurally sound tree; defects present that do not affect structural integrity; moderate lean; minor/major dead branches may be present; crown not broken out but not necessarily well formed or even; vines may be growing along trunk and within crown.
- > **Poor** - significant health problems; may be structurally unsound; may be dead or dying; may contain significant decay; may have broken or missing top/crown; may have heavy lean; vines may be significantly affecting tree health.

Note: These guidelines were developed by RK&K based on the professional judgment of our Certified Arborists and other senior environmental staff.

These tree species may commonly exhibit dead branches and/or ratty growth form/structure, which should be taken into account when assessing tree condition:

- Mulberry (*Morus spp.*)
- Pin Oak (*Quercus palustris*)
- Silver Maple (*Acer saccharinum*)
- Virginia Pine (*Pinus virginiana*)
- Scarlet Oak (*Quercus coccinea*)
- Black Locust (*Robinia pseudoacacia*)
- Osage Orange (*Masadora pomifera*)
- Willow Oak (*Quercus phellos*)
- Black Willow (*Salix nigra*)

**35% DESIGN
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CARROLL AVENUE
SEPARATED BIKE LANES
MERRIMAC DRIVE TO PINEY BRANCH ROAD

TREE SAVE PLAN NOTES AND CHARTS

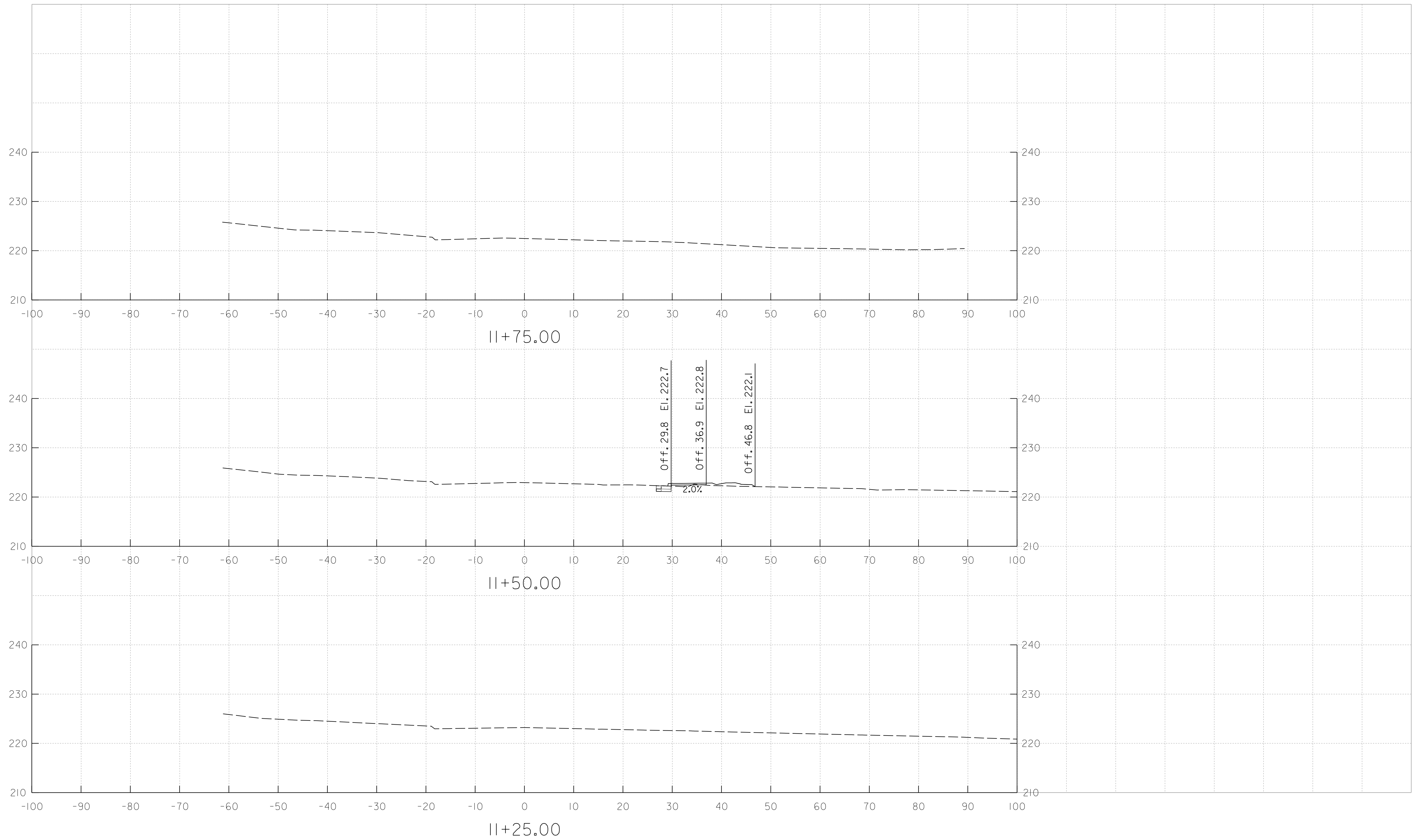
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DRAWING NO. TP-05 OF 06 SHEET NO. 18 OF 36

Sarah Falco 7-26-2023
Date

Maryland DNR Qualified Professional
Name: Sarah Falco
Address: 700 East Pratt St., Suite 500
Baltimore, MD 21202
Phone: 410-492-9483
sfalco@rkk.com

Attachment A: Corridor Engineering Drawings



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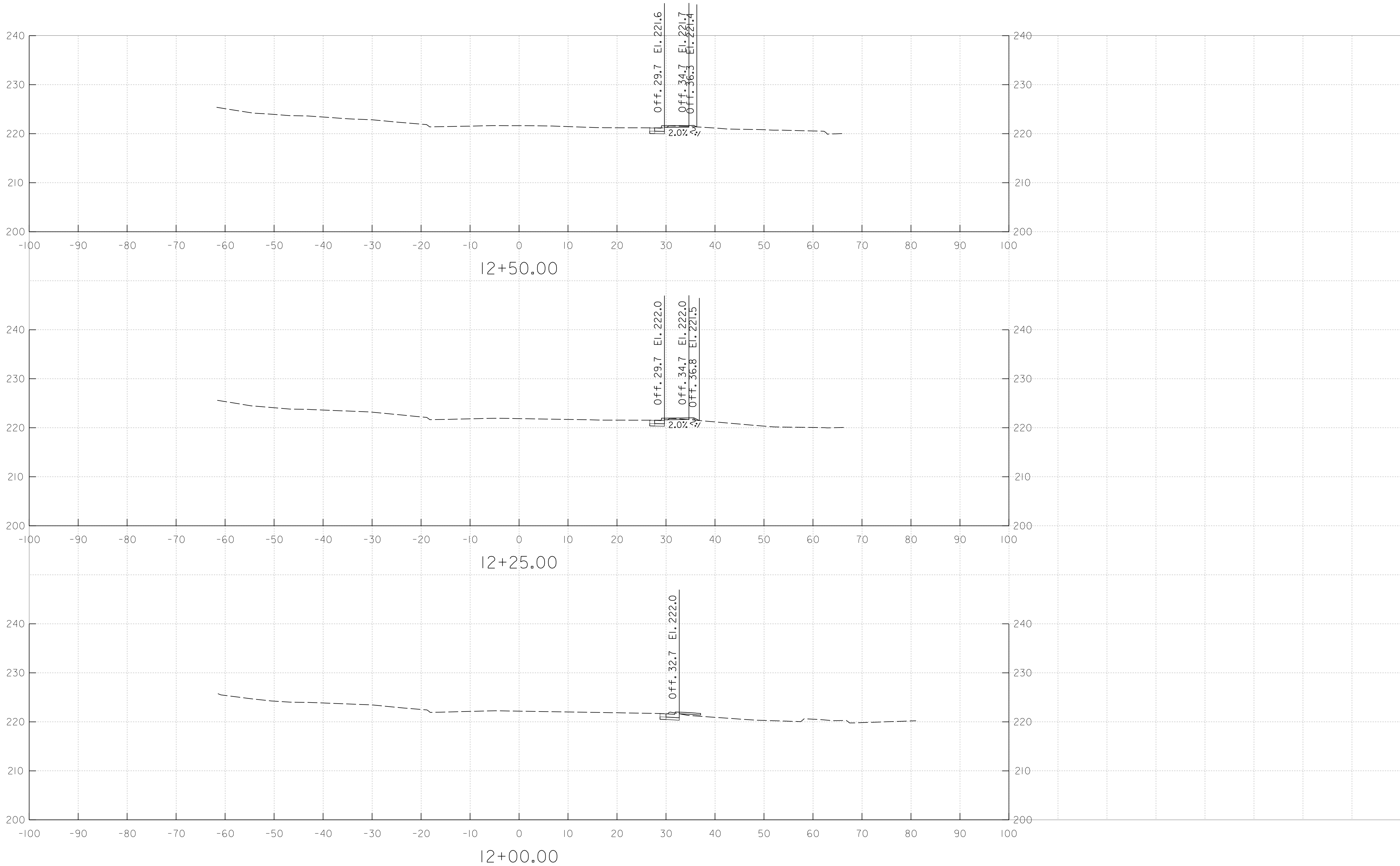
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CROSS SECTIONS
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 DRAWING NO. XS-01 OF 17 SHEET NO. 20 OF 36

Attachment A: Corridor Engineering Drawings



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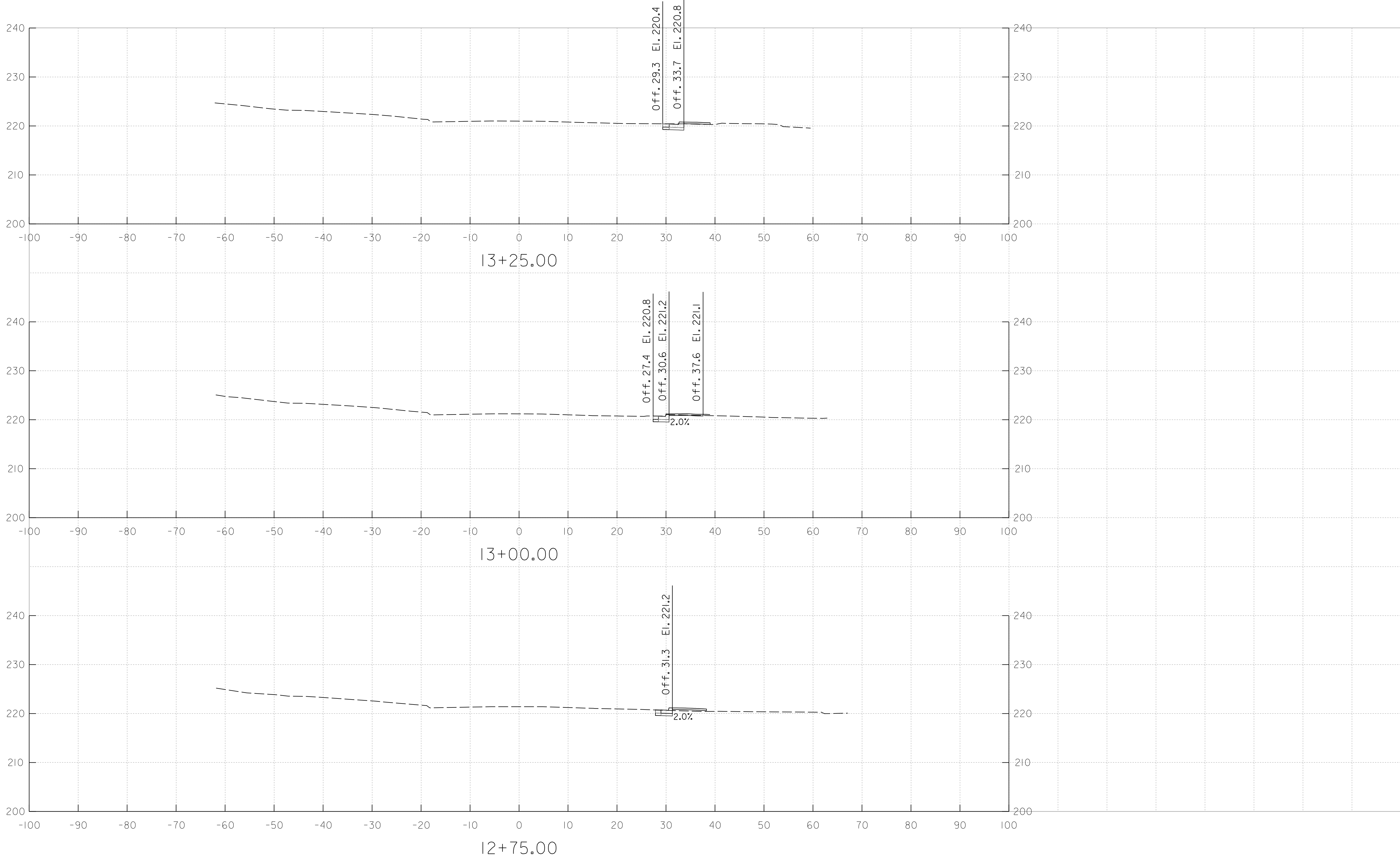
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DRAWING NO. XS-02 OF 17 SHEET NO. 21 OF 36

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CARROLL AVENUE
 SEPARATED BIKE LANES
 MERRIMAC DRIVE PINEY BRANCH ROAD

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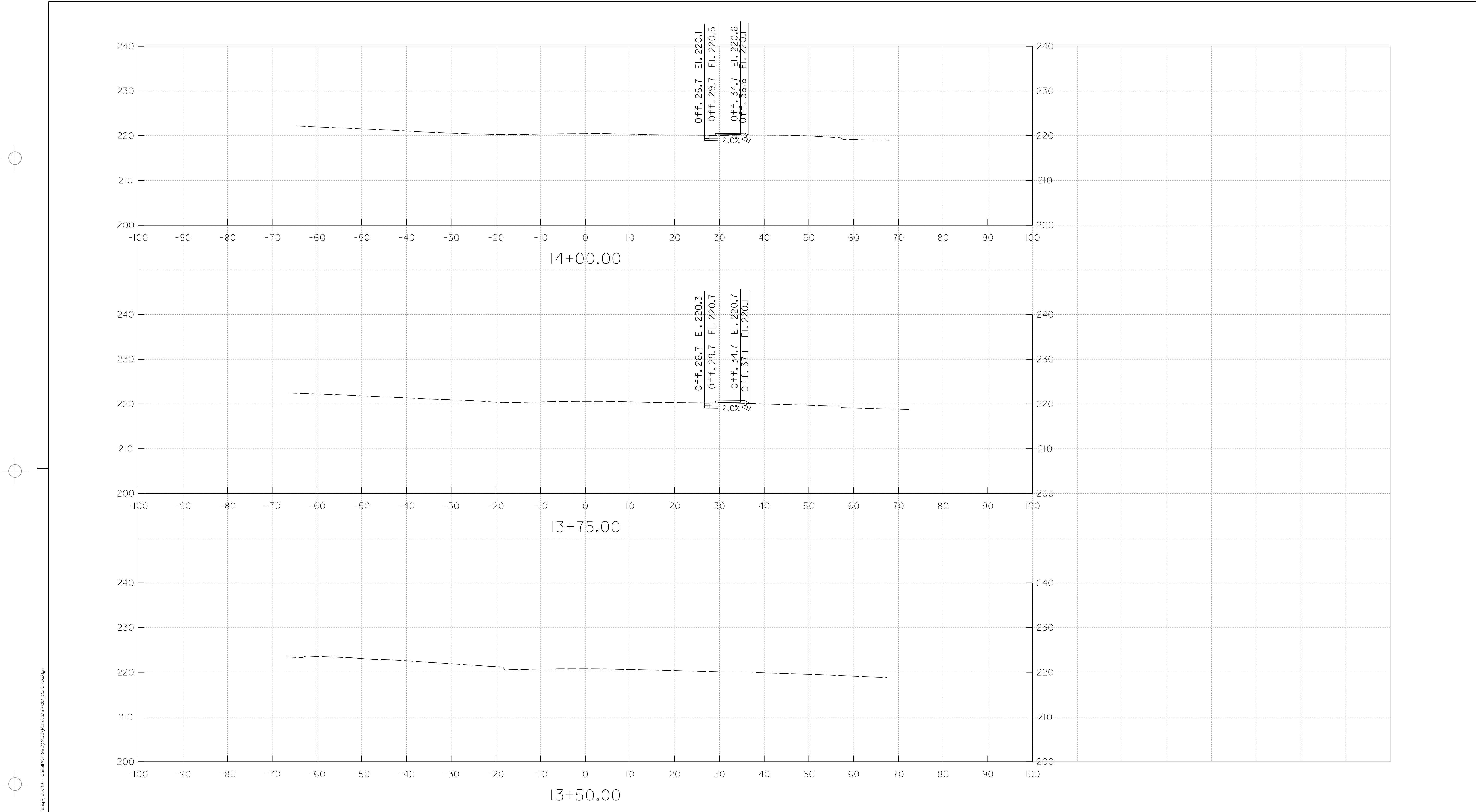
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Attachment A: Corridor Engineering Drawings



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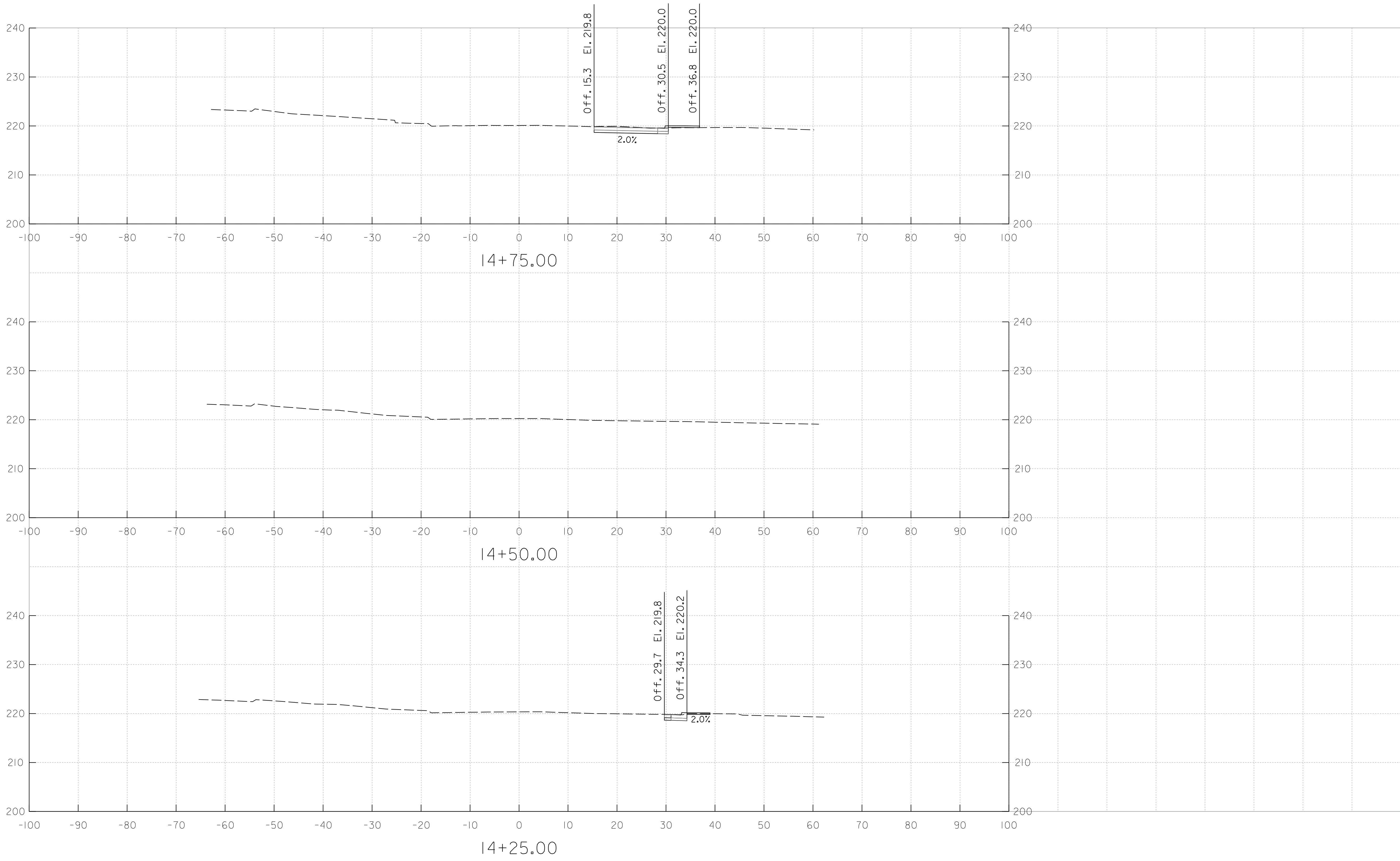
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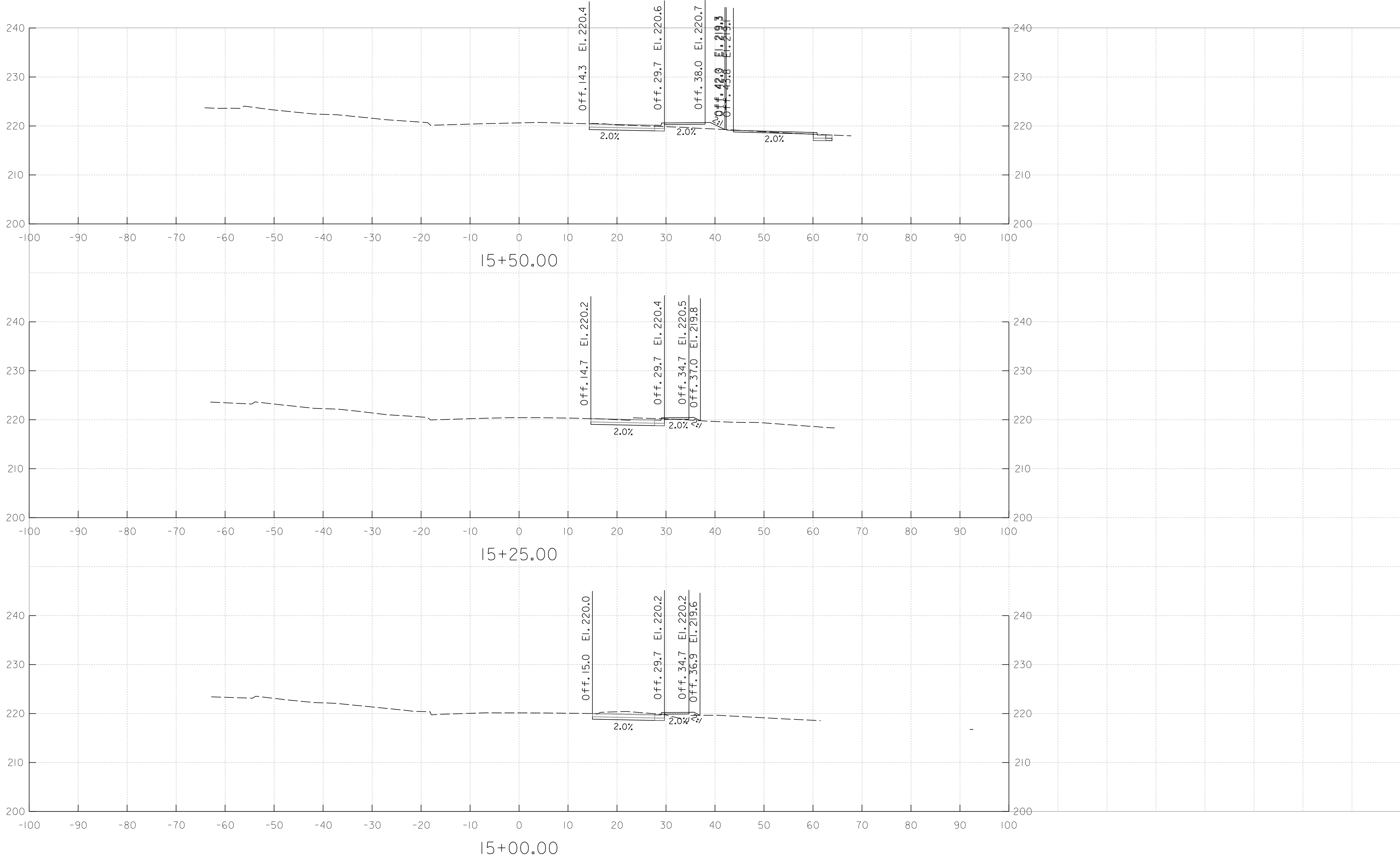
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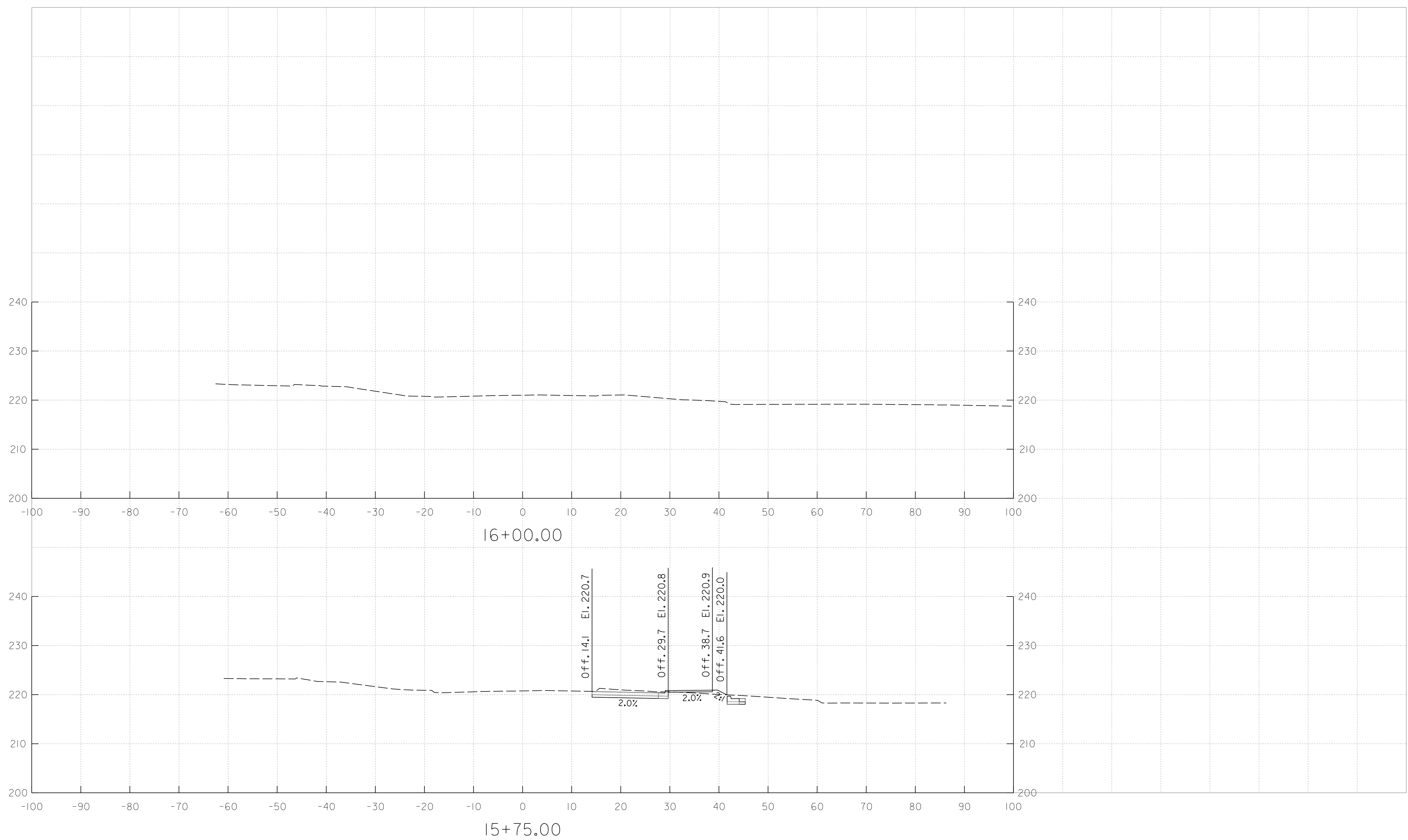
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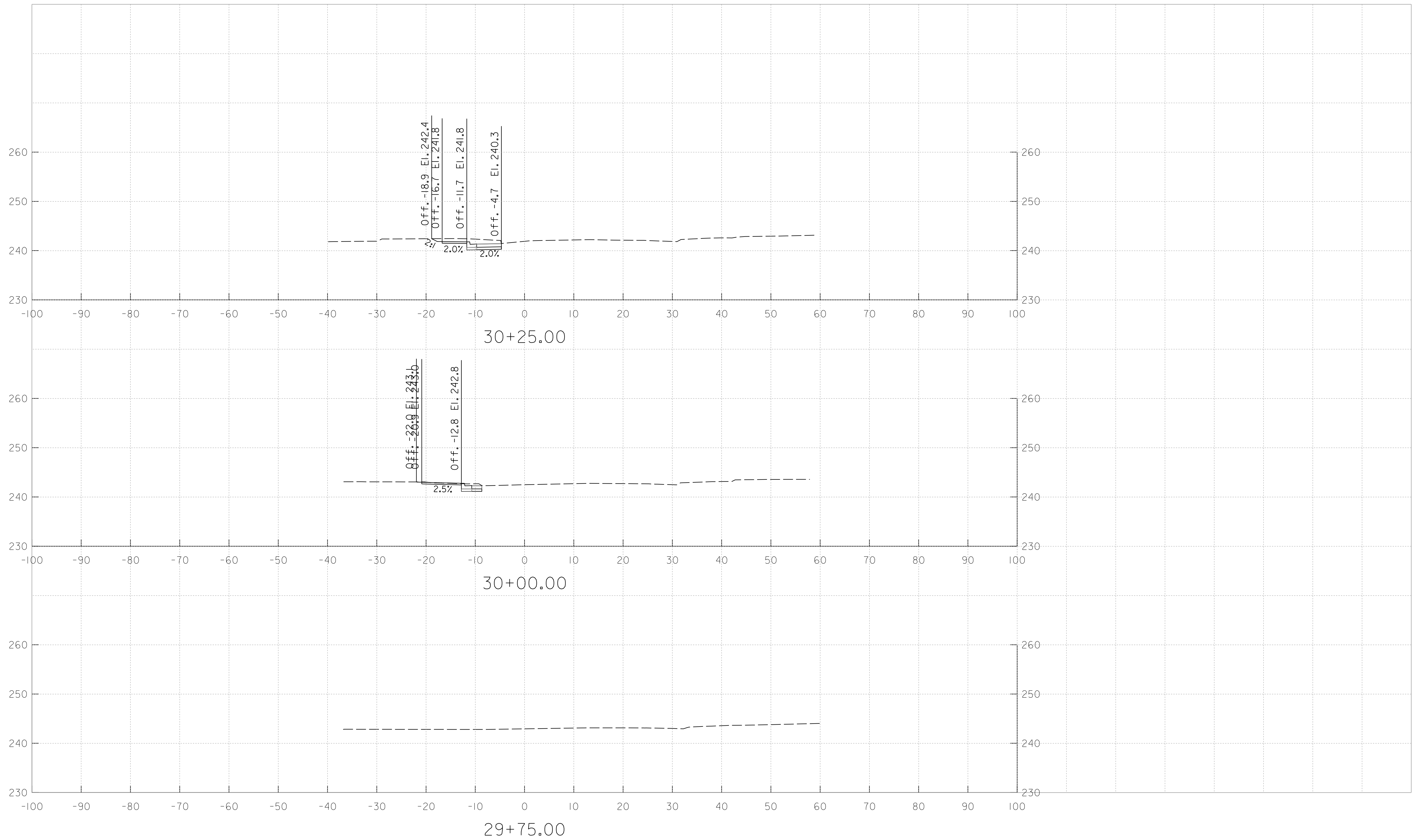
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Attachment A: Corridor Engineering Drawings



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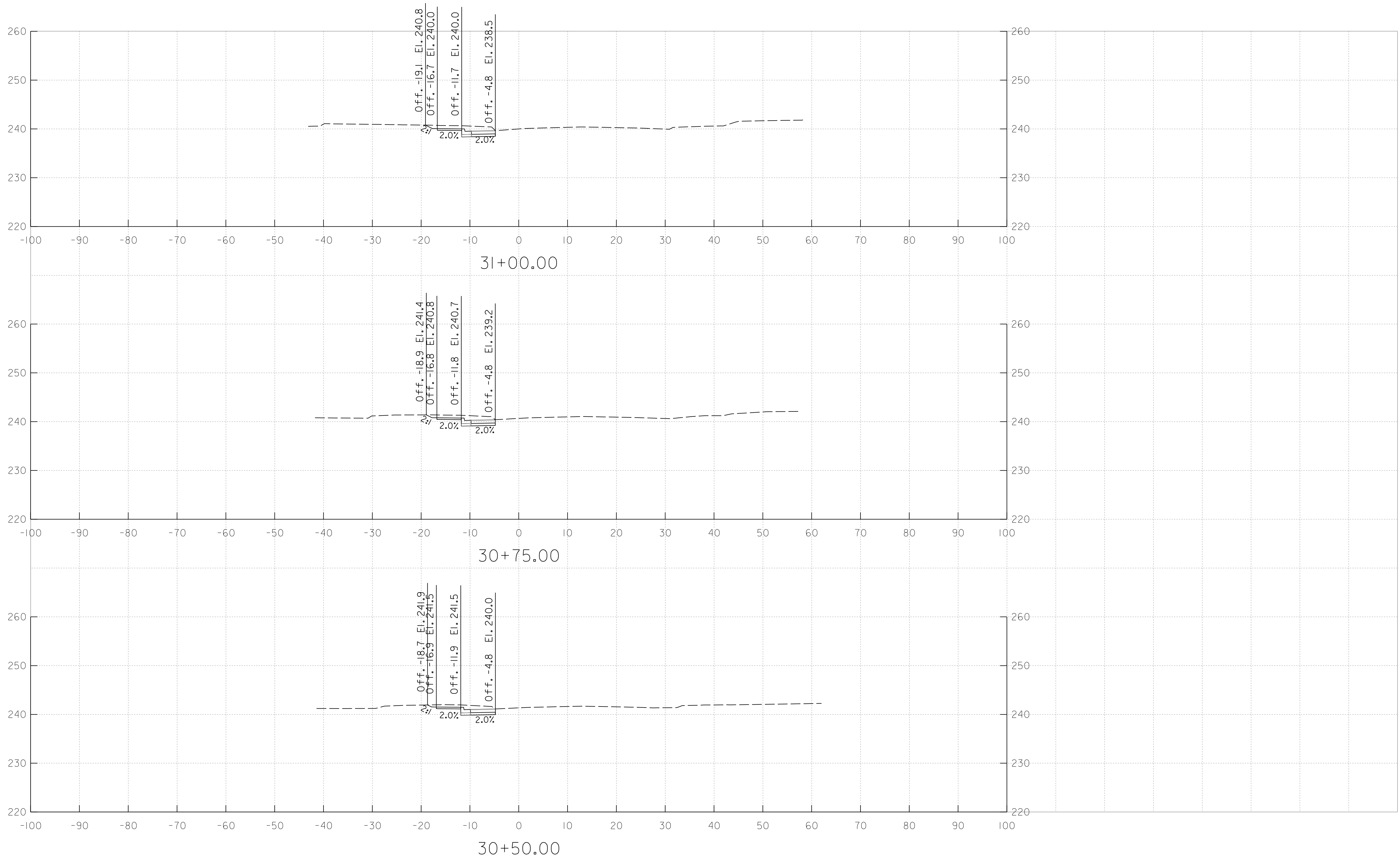
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Attachment A: Corridor Engineering Drawings



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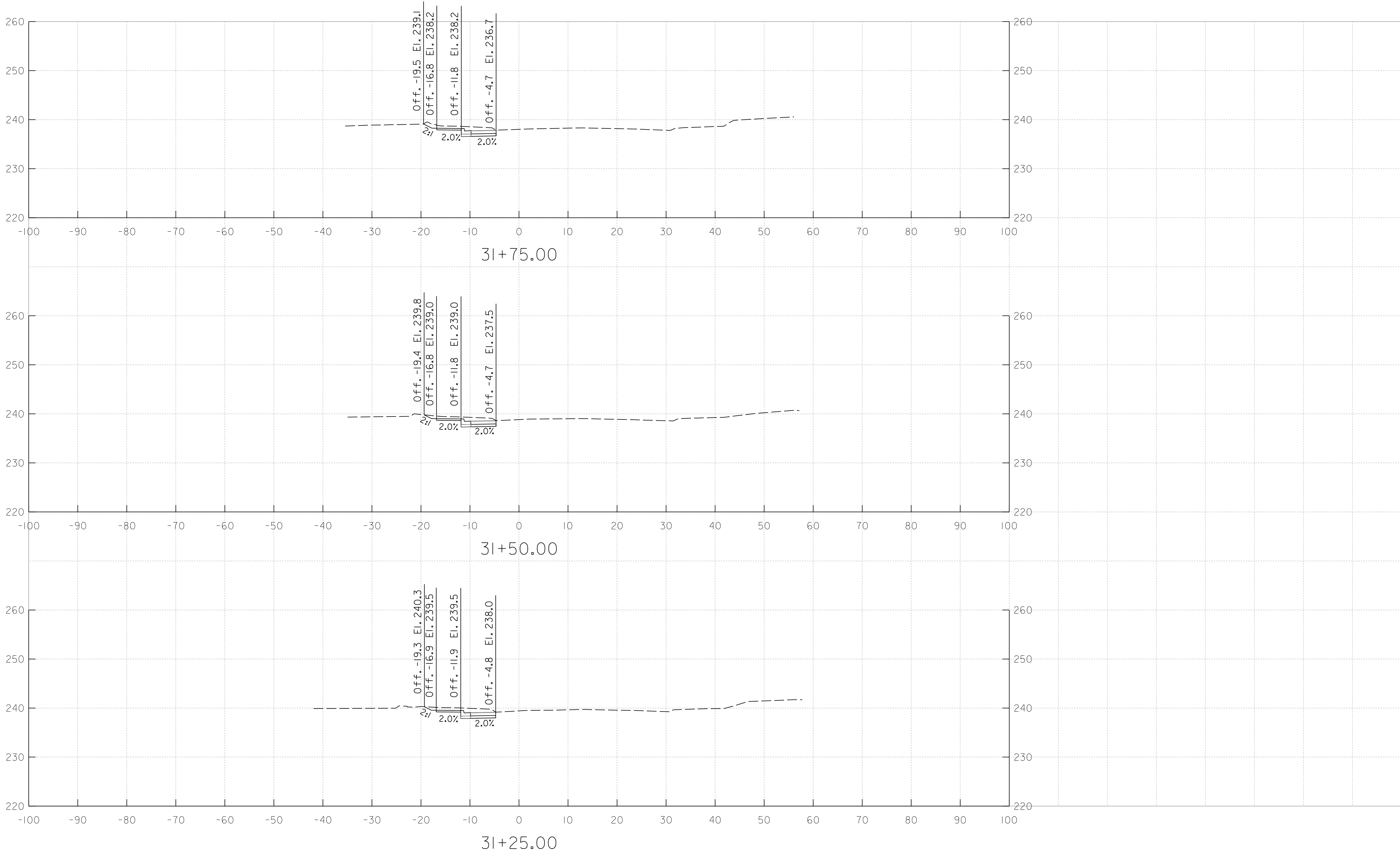
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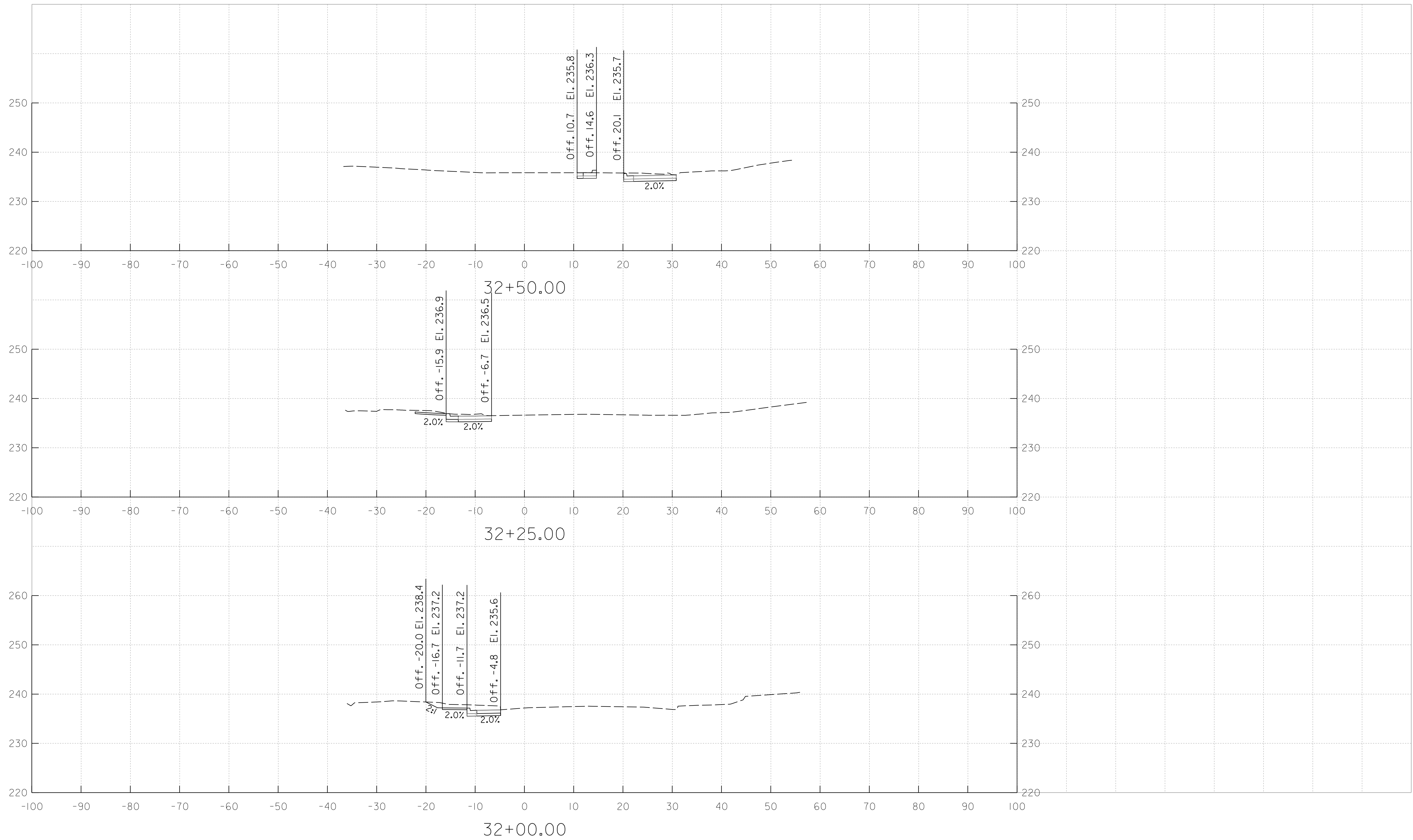
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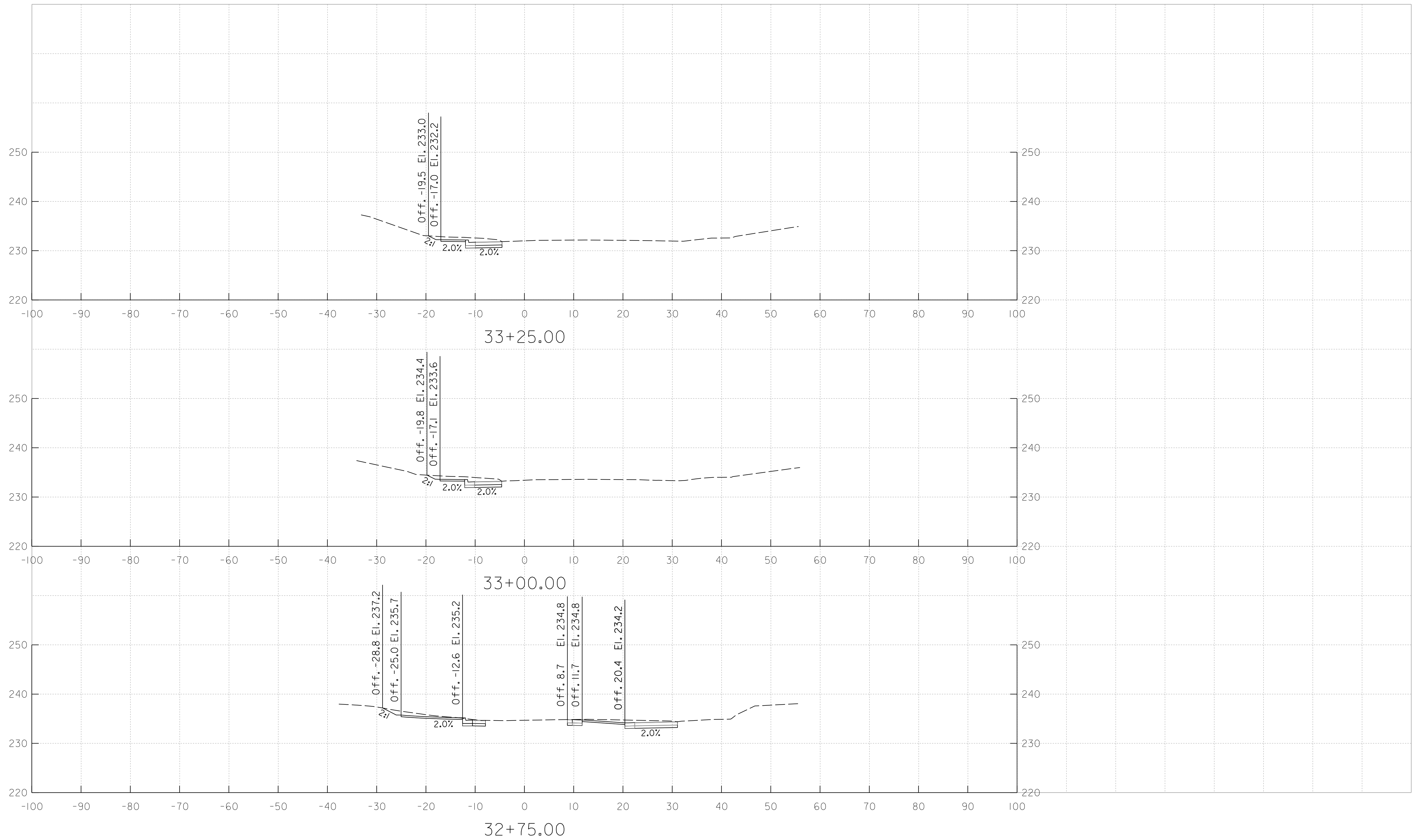
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DESIGNED BY __TM__ DRAWN BY __AF__ CHECKED BY __OG__

MONTGOMERY COUNTY
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF TRANSPORTATION ENGINEERING

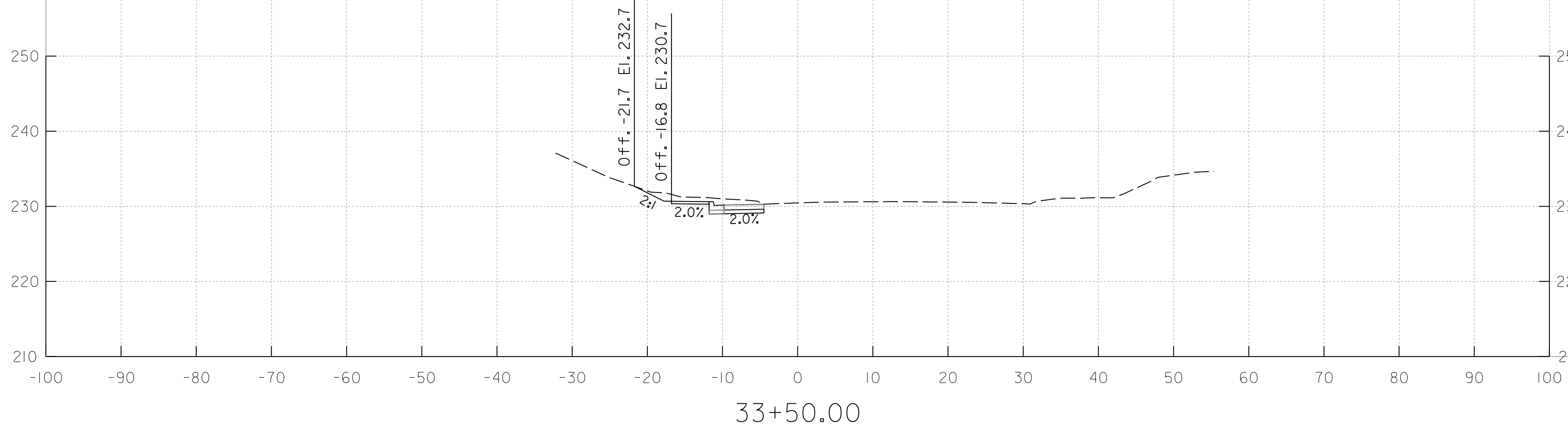
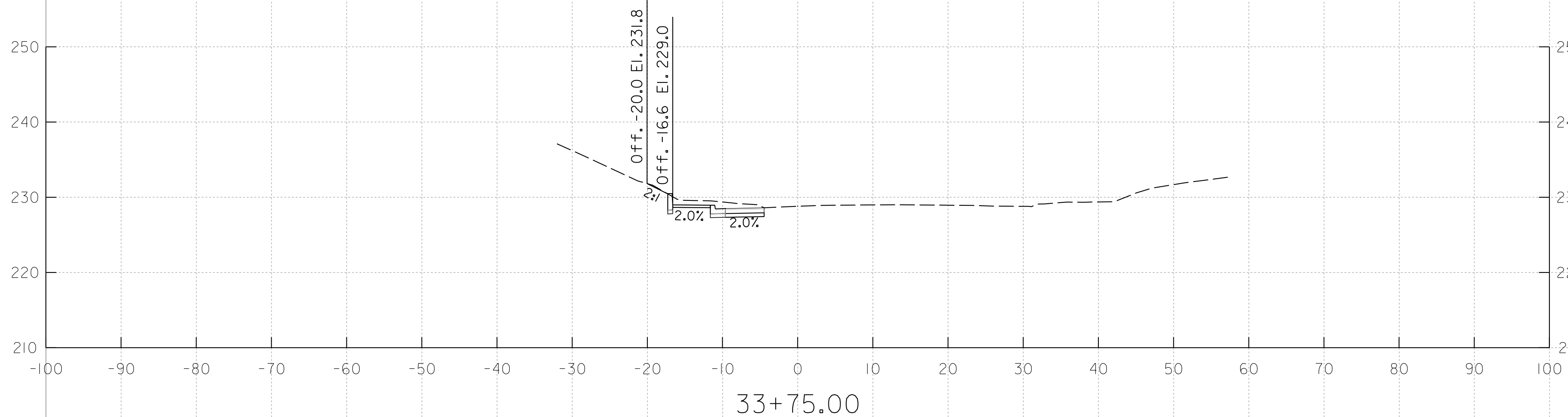
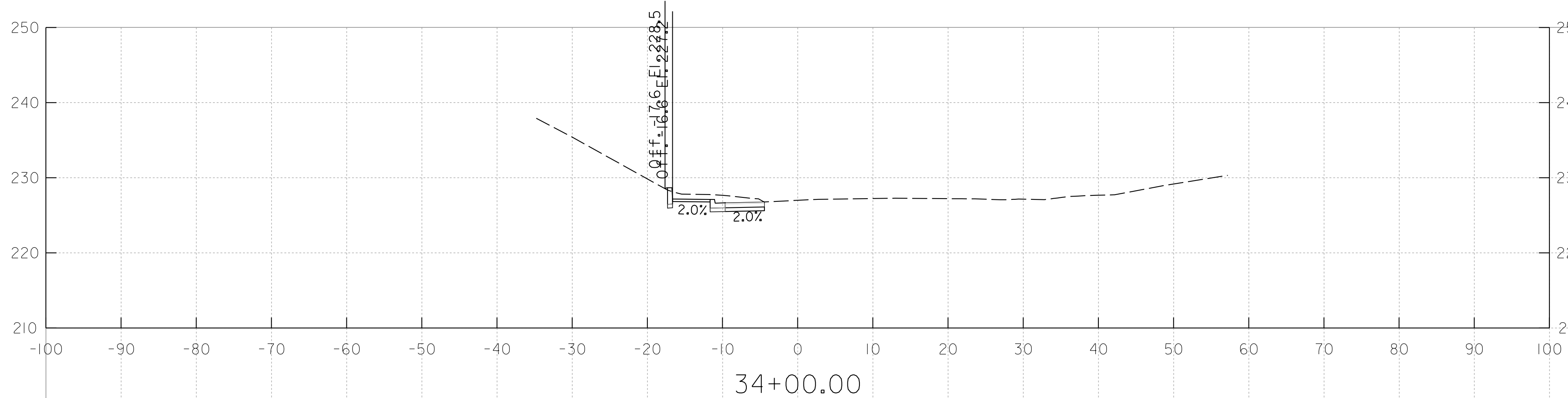
CARROLL AVENUE
 SEPARATED BIKE LANES
 MERRIMAC DRIVE PINEY BRANCH ROAD

CROSS SECTIONS

SCALE 1"=10' DATE JULY 2023

DRAWING NO. XS-12 OF 17 SHEET NO. 31 OF 36

Attachment A: Corridor Engineering Drawings



OWNER/ADDRESS:
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 ENGINEERING
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 DESIGN SECTION
 240-777-7221

MONTGOMERY COUNTY
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 ROCKVILLE, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Transportation Planning and Design Section _____ Date _____

APPROVED

Chief, Division of Transportation Engineering _____ Date _____

DESIGNED BY: TM DRAWN BY: AF CHECKED BY: OG

MONTGOMERY COUNTY
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF TRANSPORTATION ENGINEERING

CARROLL AVENUE
 SEPARATED BIKE LANES
 MERRIMAC DRIVE PINEY BRANCH ROAD

CROSS SECTIONS

SCALE 1"=10' DATE JULY 2023

DRAWING NO. XS-13 OF 17 SHEET NO. 32 OF 36

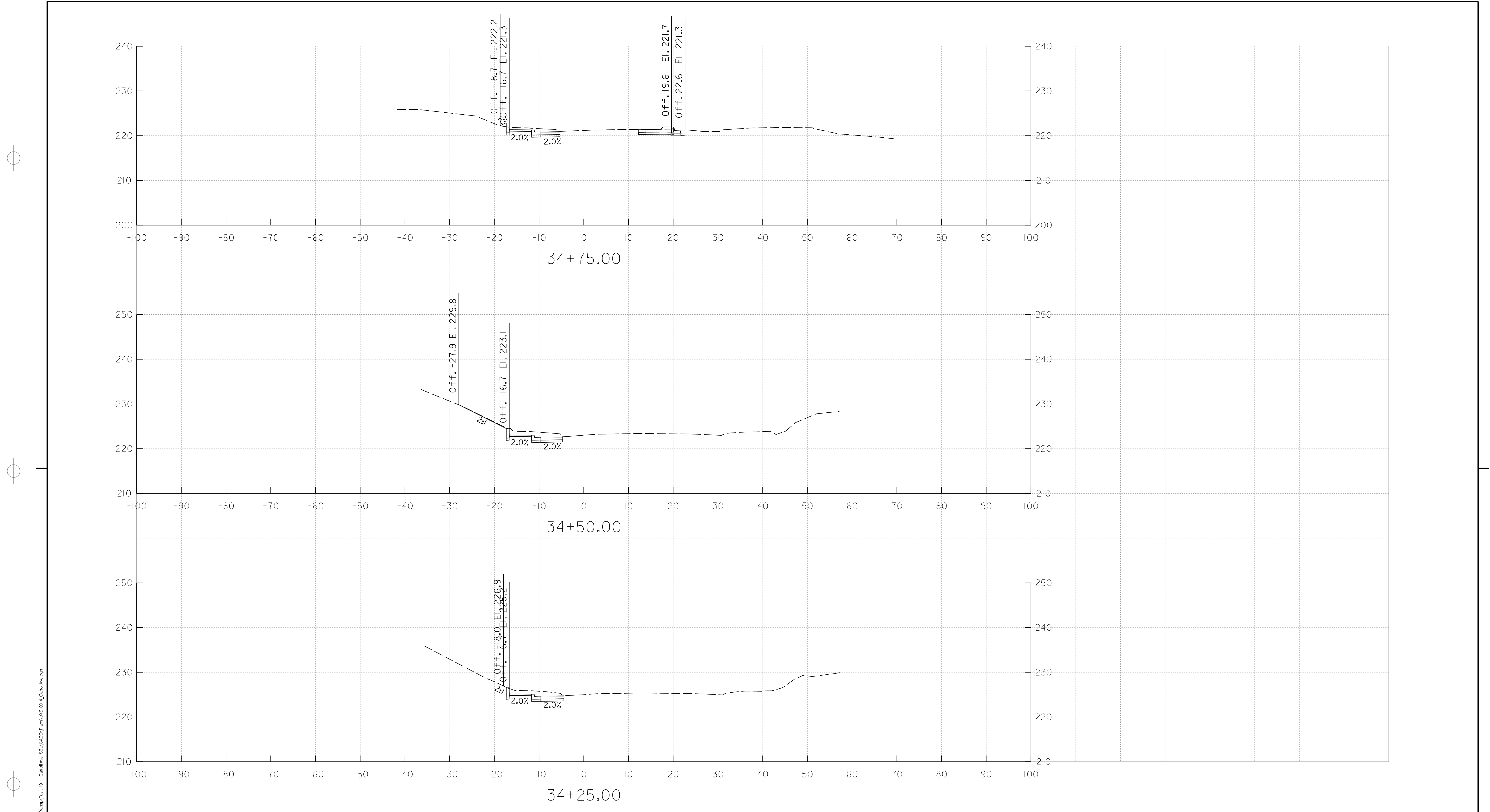
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 FILE: \\vair.rkk.com\l\Chad\Projects\2020\0007_MCDOT\Temp\Task_19 - Carroll Ave. SBL\CAD\Plan\XSS-013_CrossSection.dgn

Attachment A: Corridor Engineering Drawings



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 P:\FILES - 2023\03 - 20230303 - Client\Projects\2021\2021_MCDOT\Temp\Task 19 - Carroll Ave. SBL\CADD\Plans\03-014_Corridor.dgn

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APPROVED

Chief, Division of Transportation Engineering _____ Date _____

DESIGNED BY __TM__ DRAWN BY __AF__ CHECKED BY __QG__

MONTGOMERY COUNTY
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF TRANSPORTATION ENGINEERING

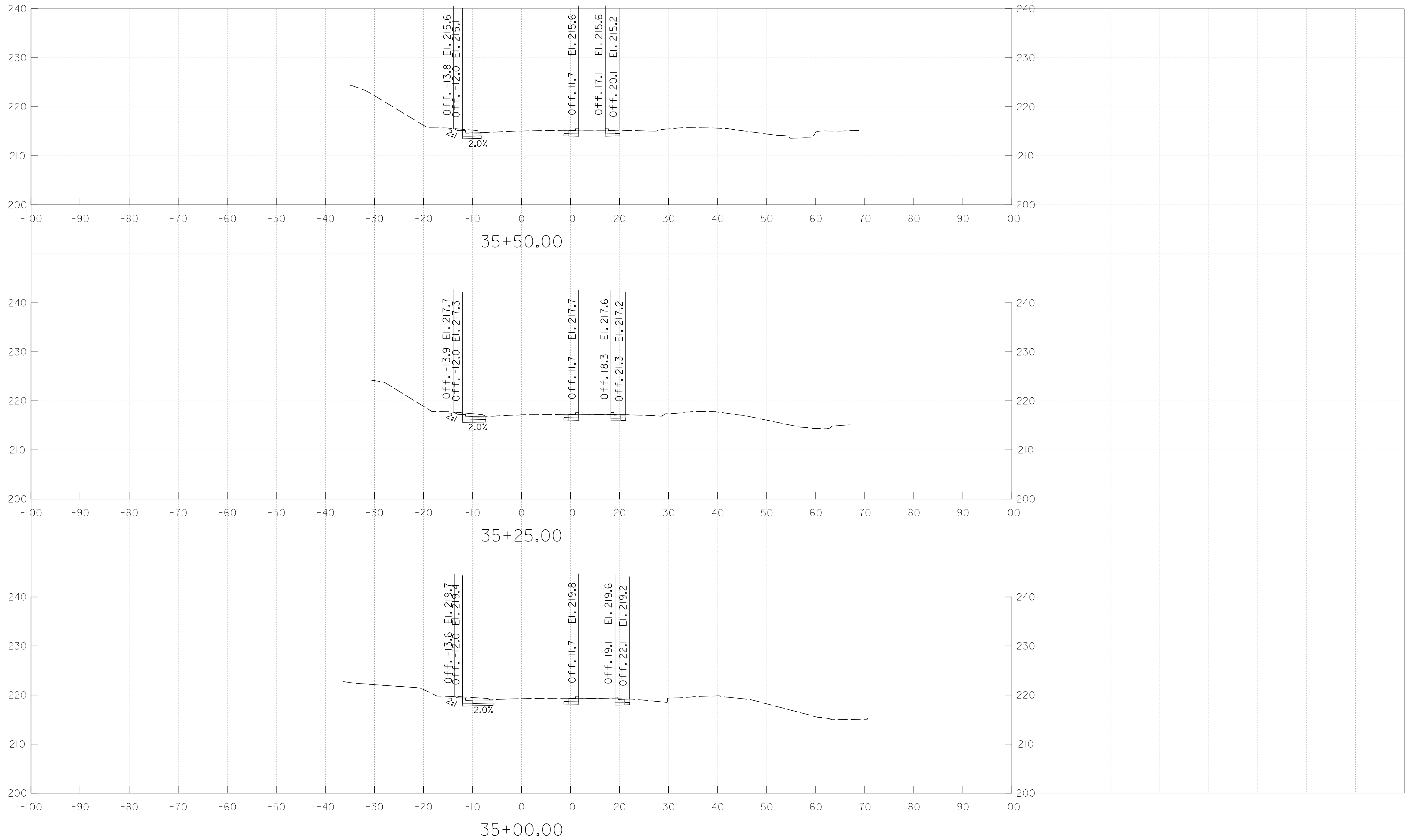
CARROLL AVENUE
 SEPARATED BIKE LANES
 MERRIMAC DRIVE PINEY BRANCH ROAD

CROSS SECTIONS

SCALE 1"=10' DATE JULY 2023

DRAWING NO. XS-14 OF 17 SHEET NO. 33 OF 36

Attachment A: Corridor Engineering Drawings



PLOTTER: 7/20/2023
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NO.	REVISION	DATE	BY

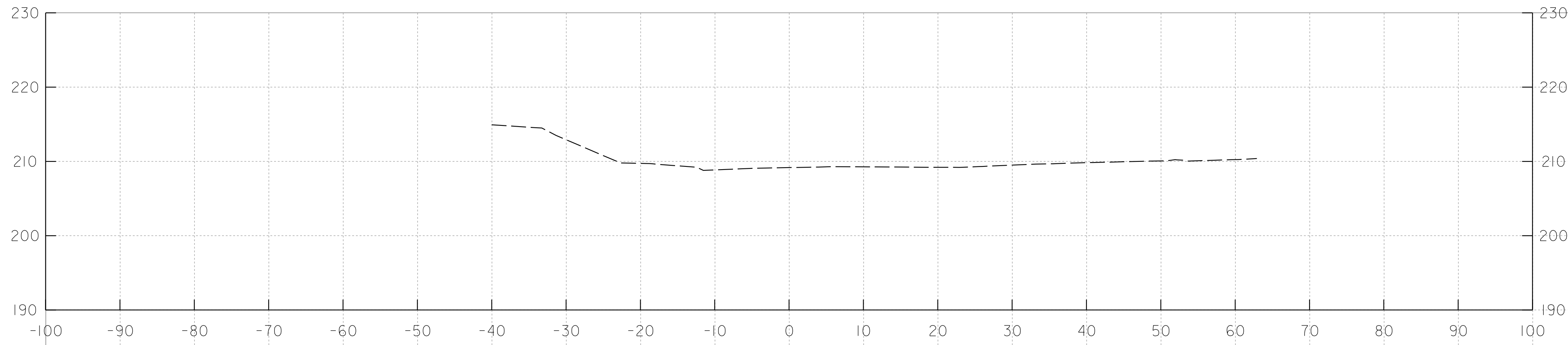
MONTGOMERY COUNTY
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 Chief, Transportation Planning and Design Section _____ Date _____
 APPROVED
 Chief, Division of Transportation Engineering _____ Date _____
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**CARROLL AVENUE
 SEPARATED BIKE LANES**
 MERRIMAC DRIVE PINEY BRANCH ROAD

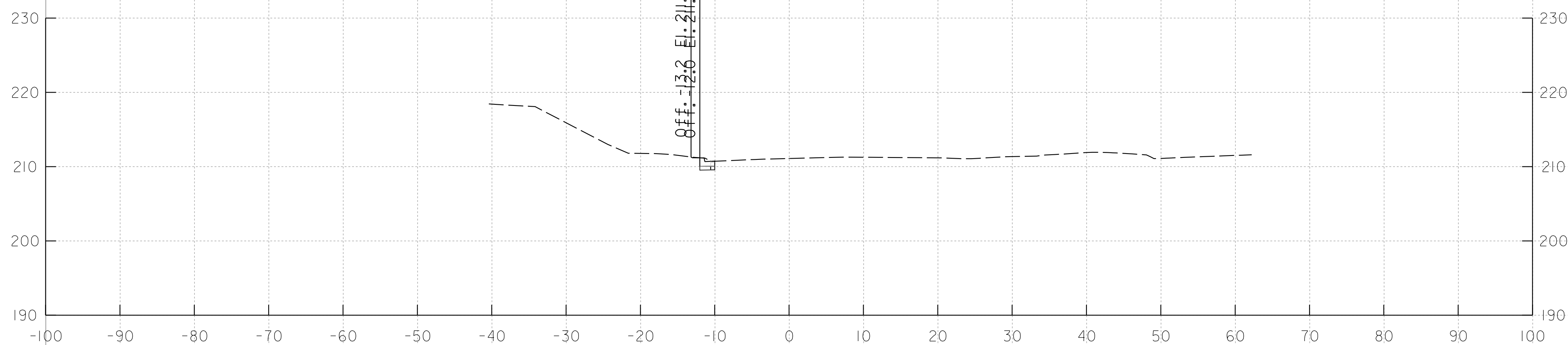
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 DRAWING NO. XS-15 OF 17 SHEET NO. 34 OF 36

Attachment A: Corridor Engineering Drawings

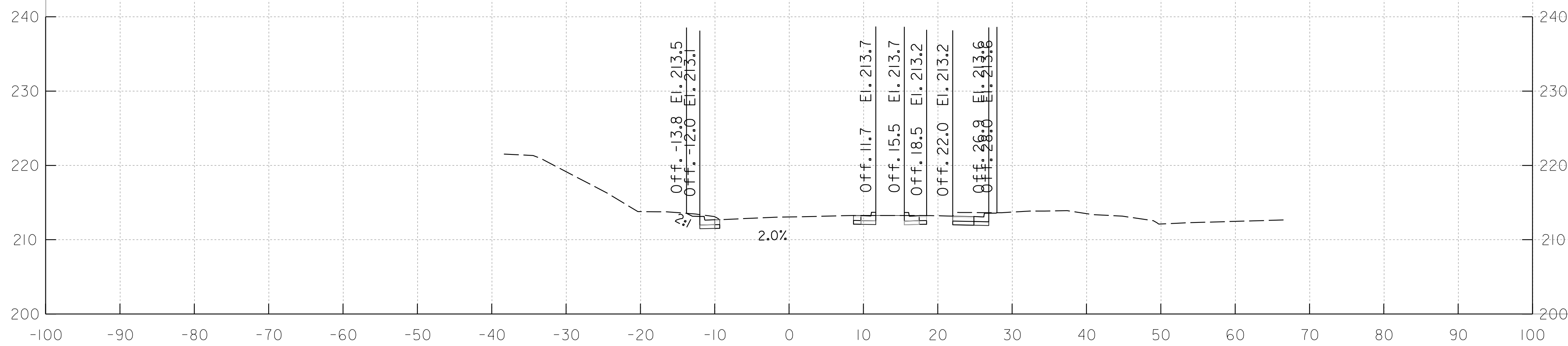


36+25.00

Off. -10.0 El. 211.2



36+00.00



35+75.00

Off. -13.8 El. 213.5
Off. -12.0 El. 213.1

2.0%

Off. 11.7 El. 213.7

Off. 15.5 El. 213.7

Off. 18.5 El. 213.2

Off. 22.0 El. 213.2

Off. 26.8 El. 213.6

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Date

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Chief, Division of Transportation Engineering

Date

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DIVISION OF TRANSPORTATION ENGINEERING

CARROLL AVENUE
SEPARATED BIKE LANES
MERRIMAC DRIVE PINEY BRANCH ROAD

CROSS SECTIONS

SCALE 1"=10' DATE JULY 2023

DRAWING NO. XS-16 OF 17 SHEET NO. 35 OF 36



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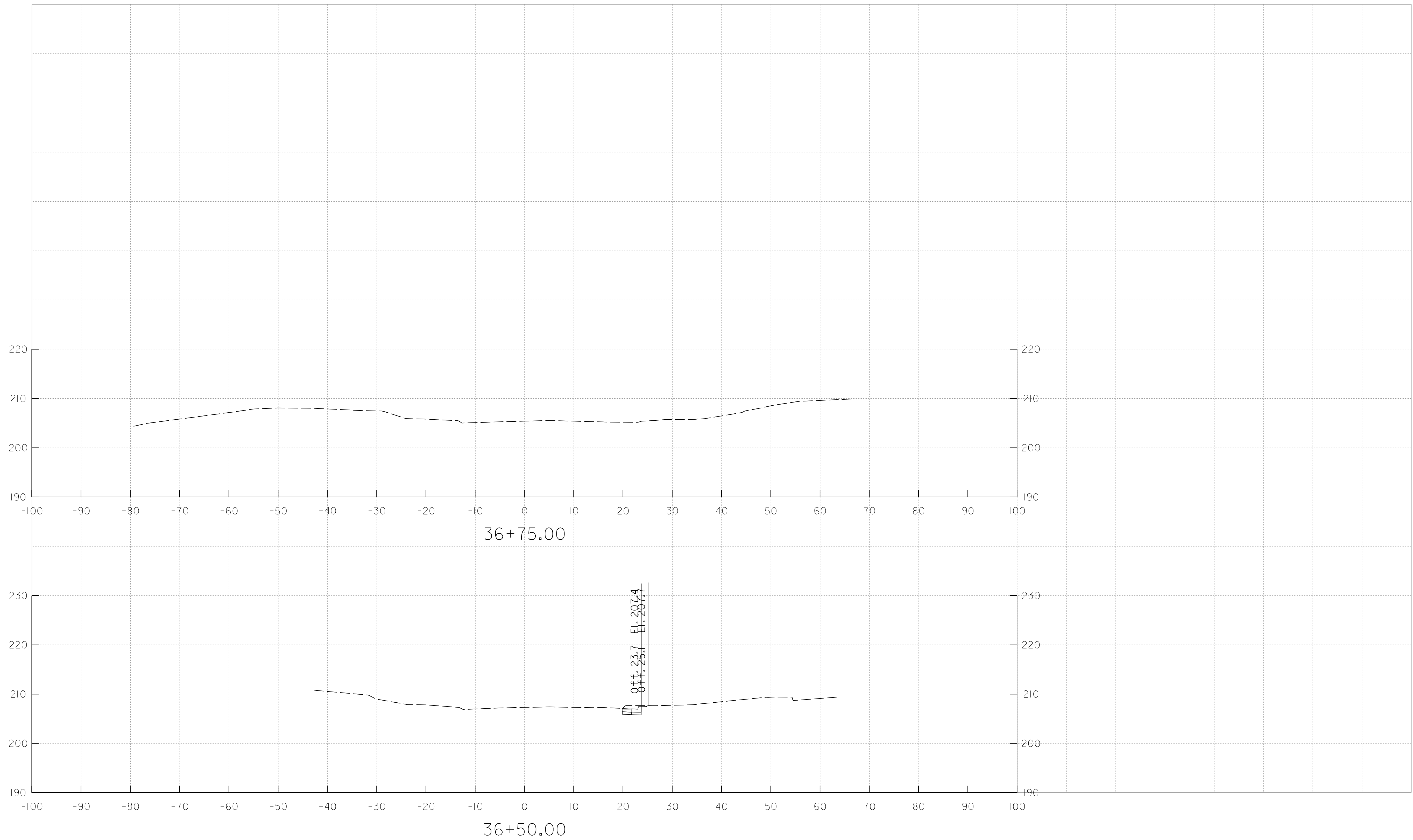
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Attachment A: Corridor Engineering Drawings



PLOT: \\rkk.com\c\ch\Projects\2020\2022_MCO\Trans\Task 10 - Carroll Ave SBL\CADD\Plan\05-2017_Corridor.dgn
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 Chief, Transportation Planning and Design Section _____ Date _____
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 Chief, Division of Transportation Engineering _____ Date _____

 DESIGNED BY __TM__ DRAWN BY __AF__ CHECKED BY __OG__

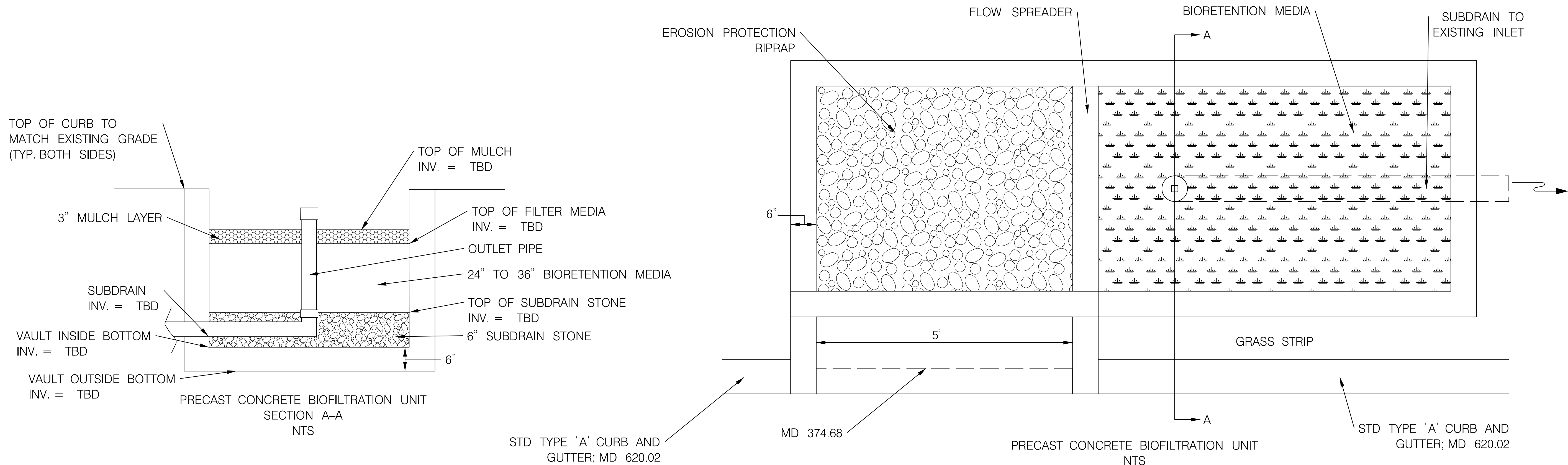
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 DIVISION OF TRANSPORTATION ENGINEERING

 CARROLL AVENUE
 SEPARATED BIKE LANES
 MERRIMAC DRIVE PINEY BRANCH ROAD

 CROSS SECTIONS
 SCALE 1"=10' DATE JULY 2023

 DRAWING NO. XS-17 OF 17 SHEET NO. 36 OF 36

Attachment A: Corridor Engineering Drawings



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 PLOT DATE: 6/20/23
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 Chief, Transportation Planning and Design Section Date
 APPROVED
 Chief, Division of Transportation Engineering Date

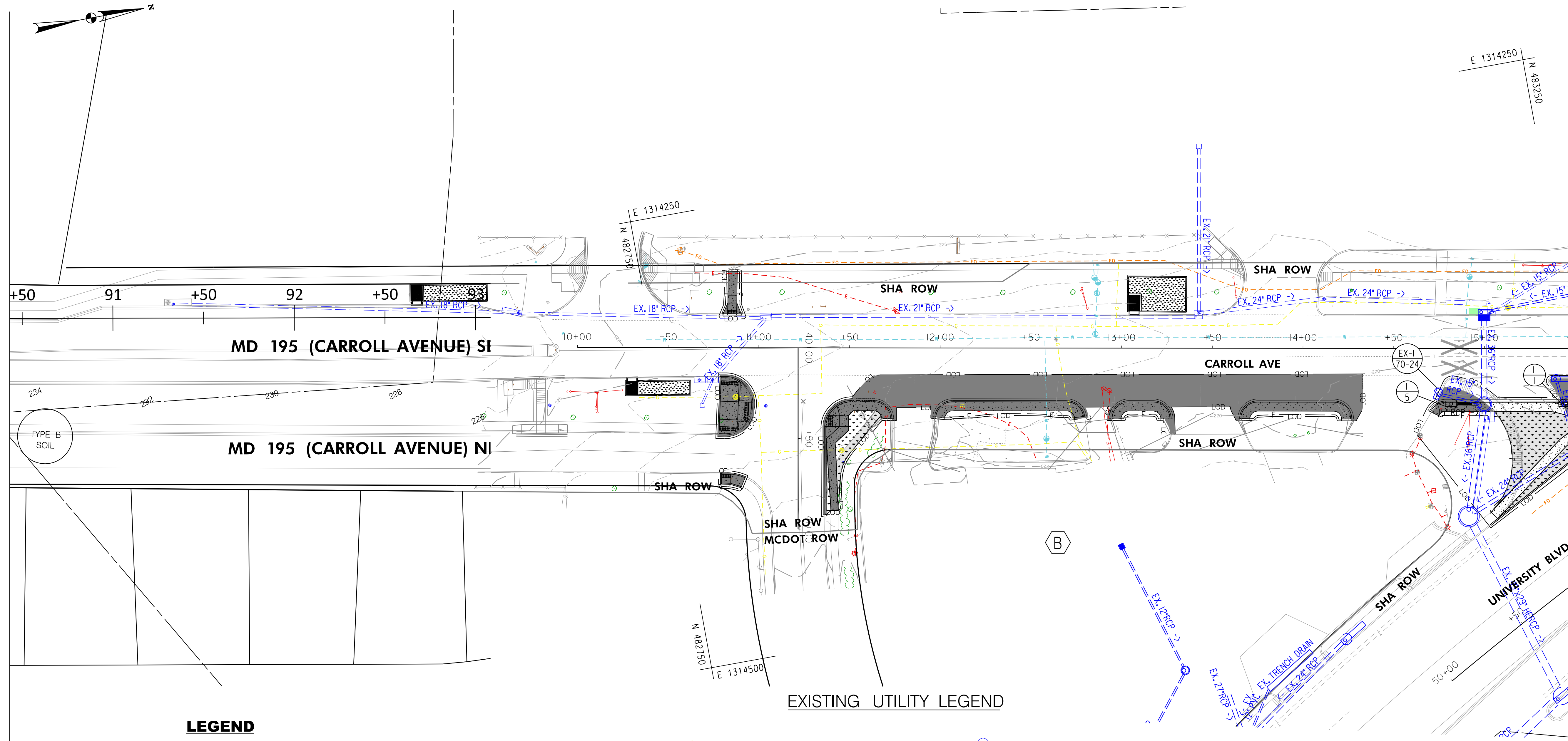
DESIGNED BY YDM DRAWN BY YDM CHECKED BY MM

MONTGOMERY COUNTY
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF TRANSPORTATION ENGINEERING
**CARROLL AVENUE
 SEPARATED BIKE LANES**
 MERRIMAC DRIVE TO PINEY BRANCH ROAD
STORMWATER DETAILS

SCALE _____ NTS DATE JUNE XX, 2023

DRAWING NO. SP 01 OF 4 SHEET NO. 2 OF 10

DWG. SW-D1



MATCHLINE STA. 15+50 - SEE SHEET SP-02

LEGEND

- IMPERVIOUS AREA REQUIRING TREATMENT
- PAVEMENT CONVERSION TO OPEN SPACE
- LOD LIMIT OF DISTURBANCE
- ROW LINE
- SHA ROW LINE
- EX. STORM DRAIN PIPE
- EX. CONTOUR
- HYDROLOGIC SOIL BOUNDARY
- HYDROLOGIC SOIL GROUP
- CONCRETE SIDEWALK
- GRASS
- DETECTABLE WARNING SURFACE

- EXISTING UTILITY LEGEND**
- 4\"/>

- STORM DRAIN MANHOLE
- SANITARY SEWER MANHOLE
- WATER VALVE
- UTILITY POLE
- TREES
- TREE LINE
- FIRE HYDRANT



DWG. SP-01

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Chief, Division of Transportation Engineering _____ Date _____

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MONTGOMERY COUNTY
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF TRANSPORTATION ENGINEERING

**CARROLL AVENUE
 SEPARATED BIKE LANES
 MERRIMAC DRIVE TO PINEY BRANCH ROAD**

CONCEPT SITE PLANS

SCALE 1"=30' DATE JUNE XX, 2023

DRAWING NO. SP 01 OF 4 SHEET NO. 2 OF 10

PLOTTED: 1/10/2024
 FILE: Y:\rkk\com\1\Cloud\Projects\2020\2020_MCDOT\Trans\Task_19 - Carroll Ave SBL\CADD\Plan\SP-01_Corridor.dgn

Attachment A: Corridor Engineering



Carroll Avenue Separated Bike Lanes

Mandatory Referral Requirement: 10-LL-MR2025004

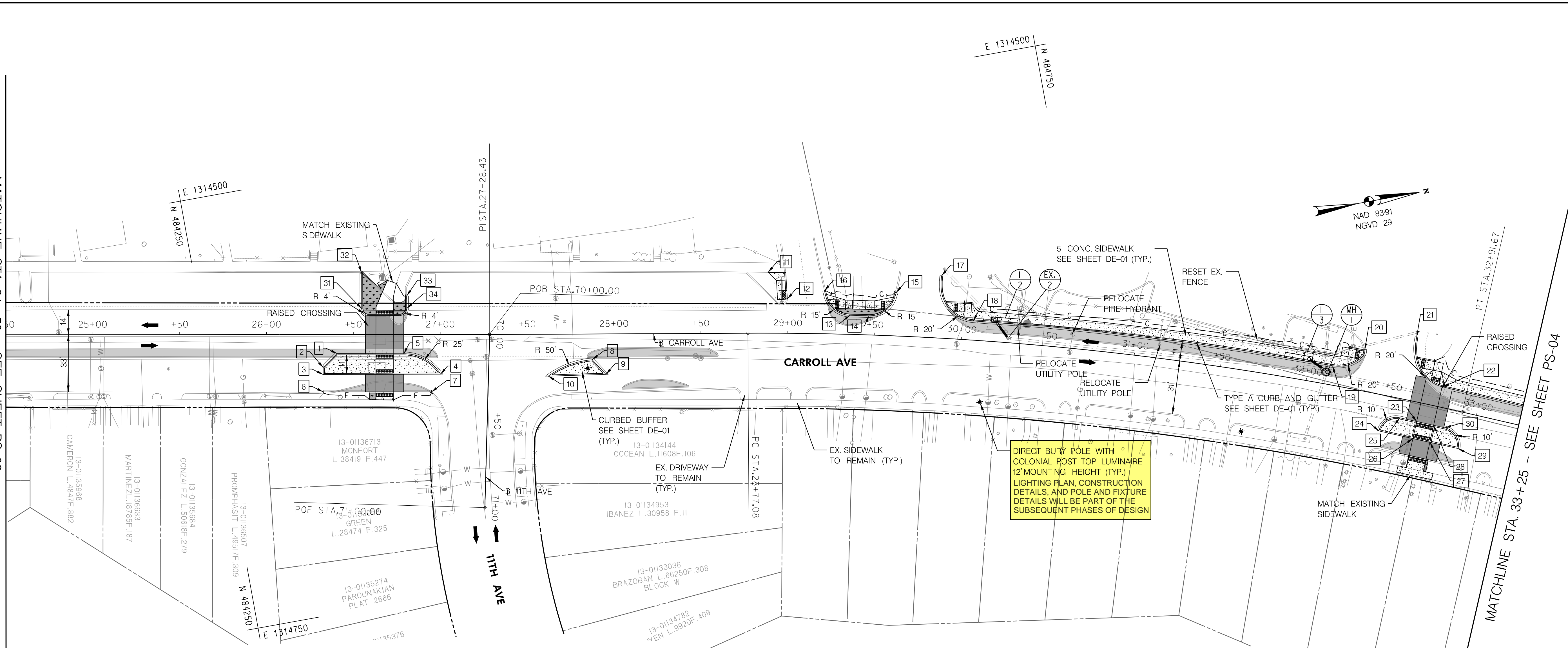
Mandatory Referral Requirement Exemption Statement

Requirement: Landscape and Lighting Plan Drawings

The Carroll Avenue Separated Bike Lanes project does not include landscape design the construction of any proposed structures, and as such, does not require landscape drawings.

The Carroll Avenue Separated Bike Lanes project included a preliminary layout of lighting improvements, within the limits of the project, based on field and desktop analysis. Potential tie in points and electrical service drops were presented in the plans. Lighting photometrics were not prepared for the proposed lighting but they were based on spacing standards defined in MCDOT's Street Lighting Installation Guidelines. Existing lighting fixtures at adjacent facilities were reviewed such that the new fixtures matched the existing lighting where possible.

MATCHLINE STA. 24+50 - SEE SHEET PS-02



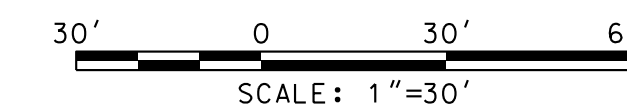
DIRECT BURY POLE WITH COLONIAL POST TOP LUMINAIRE 12' MOUNTING HEIGHT (TYP.) LIGHTING PLAN, CONSTRUCTION DETAILS, AND POLE AND FIXTURE DETAILS WILL BE PART OF THE SUBSEQUENT PHASES OF DESIGN

PROPOSED CURB DATA			
POINT	STATION	OFFSET	LT/RT
1	26+40.64	11.00'	RT
2	26+32.61	19.00'	RT
3	26+32.61	23.00'	RT
4	27+00.20	22.81'	RT
5	26+79.03	11.00'	RT
6	26+32.61	32.98'	RT*
7	26+94.94	33.01'	RT*
8	27+87.34	14.81'	RT
9	27+95.29	23.30'	RT
10	27+62.05	24.12'	RT
11	28+88.69	35.02'	LT*
12	28+99.63	19.68'	LT*

PROPOSED CURB DATA			
POINT	STATION	OFFSET	LT/RT
13	29+35.65	11.00'	LT
14	29+46.56	11.00'	LT
15	29+61.43	24.99'	LT*
16	29+20.67	24.75'	LT*
17	29+86.59	35.87'	LT*
18	30+06.12	11.00'	LT
19	32+13.37	11.00'	LT
20	32+29.77	23.58'	LT*
21	32+57.15	36.59'	LT*
22	32+77.60	11.68'	LT
23	32+67.15	11.00'	RT
24	32+46.85	20.76'	RT

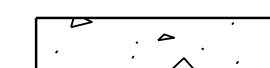


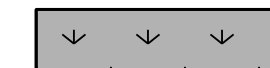
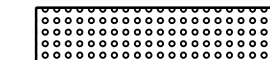
PROPOSED CURB DATA			
POINT	STATION	OFFSET	LT/RT
25	32+57.09	10.92'	RT
26	32+67.08	21.01'	RT
27	32+77.20	21.12'	RT
28	32+77.21	11.05'	RT
29	32+94.02	21.00'	RT
30	32+83.90	11.00'	RT
31	26+54.81	14.99'	LT
32	26+54.78	35.65'	LT*
33	26+80.66	22.16'	LT*
34	26+80.66	15.00'	LT

*MEET EXISTING CURB



35% DESIGN NOT FOR CONSTRUCTION

LEGEND

-  CONCRETE SIDEWALK
-  TO BE DEMOLISHED/PROPOSED FULL DEPTH ASPHALT
-  PAVEMENT ASPHALT (RAISED CROSSWALK)
-  PROPOSED GRASS
-  DETECTABLE WARNING SURFACE

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**CARROLL AVENUE
SEPARATED BIKE LANES**
MERRIMAC DRIVE TO PINEY BRANCH ROAD

ROADWAY PLANS

SCALE 1"=30' DATE JULY 2023

DRAWING NO. PS-03 OF 04 SHEET NO. 8 OF 36

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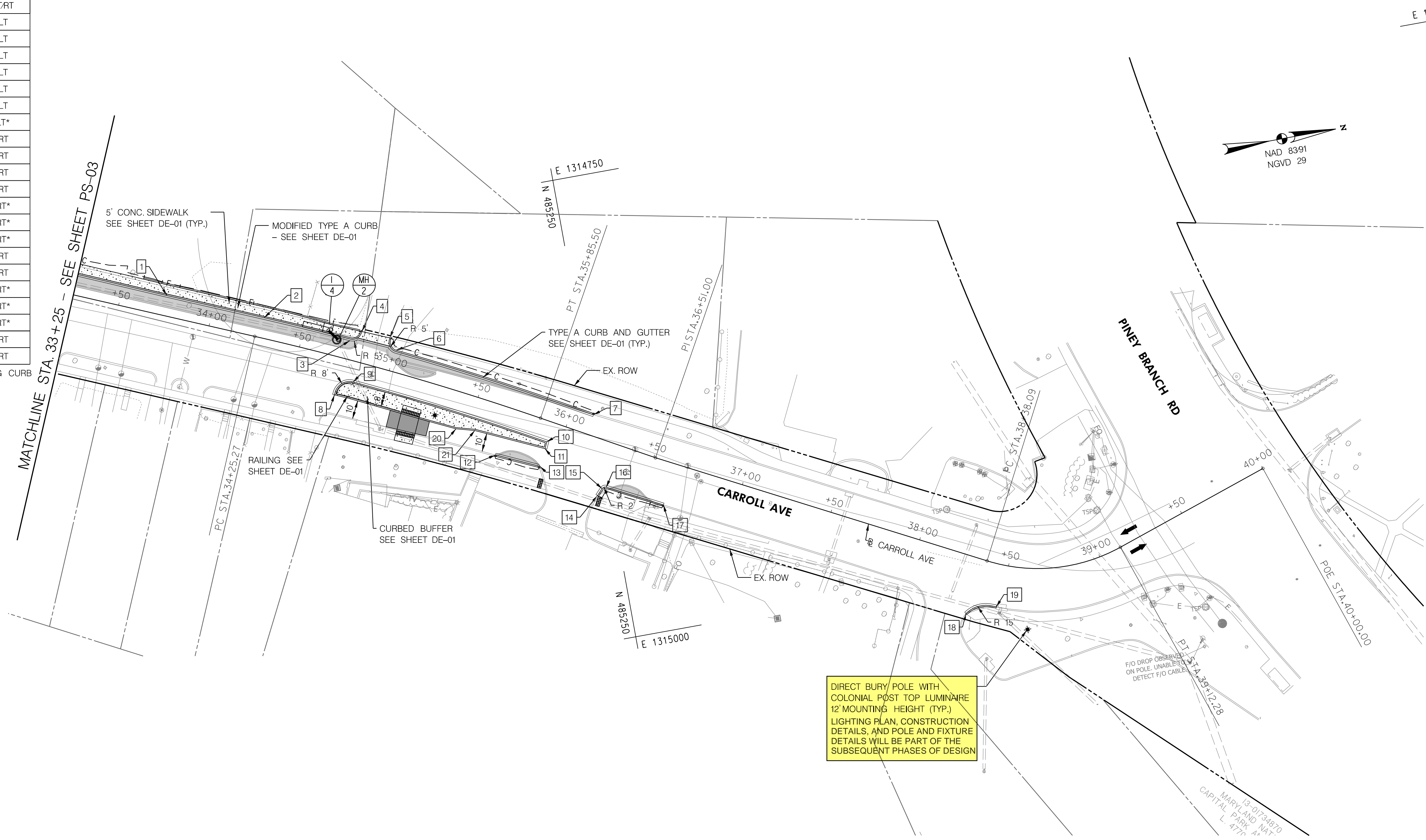
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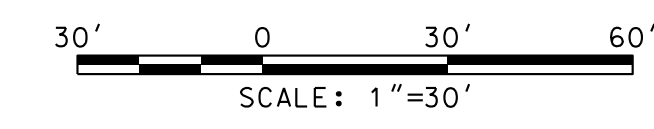
Attachment A: Corridor Engineering Drawings

PROPOSED CURB DATA			
POINT	STATION	OFFSET	LTRT
1	33+74.13	11.00'	LT
2	34+28.00	11.00'	LT
3	34+74.51	11.00'	LT
4	34+79.64	17.98'	LT
5	34+95.09	19.17'	LT
6	35+00.18	11.00'	LT
7	35+54.73	11.00'	LT*
8	34+74.82	20.31'	RT
9	34+82.90	11.00'	RT
10	35+92.85	11.00'	RT
11	35+93.15	14.77'	RT
12	35+68.13	24.20'	RT*
13	35+92.97	22.99'	RT*
14	36+27.09	28.76'	RT*
15	36+28.37	24.43'	RT
16	36+30.29	23.00'	RT
17	36+62.54	23.00'	RT*
18	38+35.57	30.50'	RT*
19	38+47.70	22.79'	RT*
20	35+43.72	19.73'	RT
21	35+53.76	17.54'	RT

*MEET EXISTING CURB

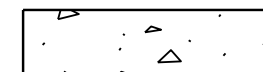



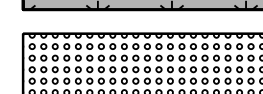


DIRECT BURY POLE WITH COLONIAL POST TOP LUMINAIRE 12' MOUNTING HEIGHT (TYP.) LIGHTING PLAN, CONSTRUCTION DETAILS, AND POLE AND FIXTURE DETAILS WILL BE PART OF THE SUBSEQUENT PHASES OF DESIGN



**35% DESIGN
NOT FOR
CONSTRUCTION**

LEGEND

-  CONCRETE SIDEWALK
-  TO BE DEMOLISHED/PROPOSED FULL DEPTH ASPHALT
-  PAVEMENT ASPHALT (RAISED CROSSWALK)
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CARROLL AVENUE
 SEPARATED BIKE LANES
 MERRIMAC DRIVE TO PINEY BRANCH ROAD

ROADWAY PLANS

SCALE 1"=30' DATE JULY 2023

DRAWING NO. PS-04 OF 04 SHEET NO. 9 OF 36

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