

GENERAL LOCATION OF CONTRACT

THE STATE OF DELAWARE DEPARTMENT OF TRANSPORTATION



CONSTRUCTION PLANS FOR:

PAVEMENT AND REHABILITATION, NORTH I, 2024

U.S. CUSTOMARY
UNITS

CONTRACT NUMBER: T202406101.02
FEDERAL AID PROJECT NUMBER: ESTP-2025(03)

COUNTY: NEW CASTLE

DESIGN DESIGNATION (PAPER MILL ROAD)		
FUNCTIONAL CLASS: MINOR ARTERIAL	D.H.V. PROJECTED: N/A	YEAR: N/A
TYPE OF CONSTRUCTION: OVERLAY	DESIGN SPEED: N/A	
A.A.D.T. CURRENT: 16,506	YEAR: 2022	TRUCKS: 6.14%
A.A.D.T. PROJECTED: N/A	YEAR: N/A	DIRECTION OF DISTRIBUTION: 58.81
DESIGN DESIGNATION (UPPER PIKE CREEK ROAD)		
FUNCTIONAL CLASS: MAJOR COLLECTOR	D.H.V. PROJECTED: N/A	YEAR: N/A
TYPE OF CONSTRUCTION: OVERLAY	DESIGN SPEED: N/A	
A.A.D.T. CURRENT: 654	YEAR: 2022	TRUCKS: 6.14%
A.A.D.T. PROJECTED: N/A	YEAR: N/A	DIRECTION OF DISTRIBUTION: 58.81
DESIGN DESIGNATION (PIKE CREEK ROAD)		
FUNCTIONAL CLASS: MAJOR COLLECTOR	D.H.V. PROJECTED: N/A	YEAR: N/A
TYPE OF CONSTRUCTION: OVERLAY	DESIGN SPEED: N/A	
A.A.D.T. CURRENT: 4,921	YEAR: 2022	TRUCKS: 6.14%
A.A.D.T. PROJECTED: N/A	YEAR: N/A	DIRECTION OF DISTRIBUTION: 58.81
DESIGN DESIGNATION (POLLY DRUMMOND ROAD)		
FUNCTIONAL CLASS: MINOR ARTERIAL	D.H.V. PROJECTED: N/A	YEAR: N/A
TYPE OF CONSTRUCTION: OVERLAY	DESIGN SPEED: N/A	
A.A.D.T. CURRENT: 14,139	YEAR: 2022	TRUCKS: 6.14%
A.A.D.T. PROJECTED: N/A	YEAR: N/A	DIRECTION OF DISTRIBUTION: 58.81

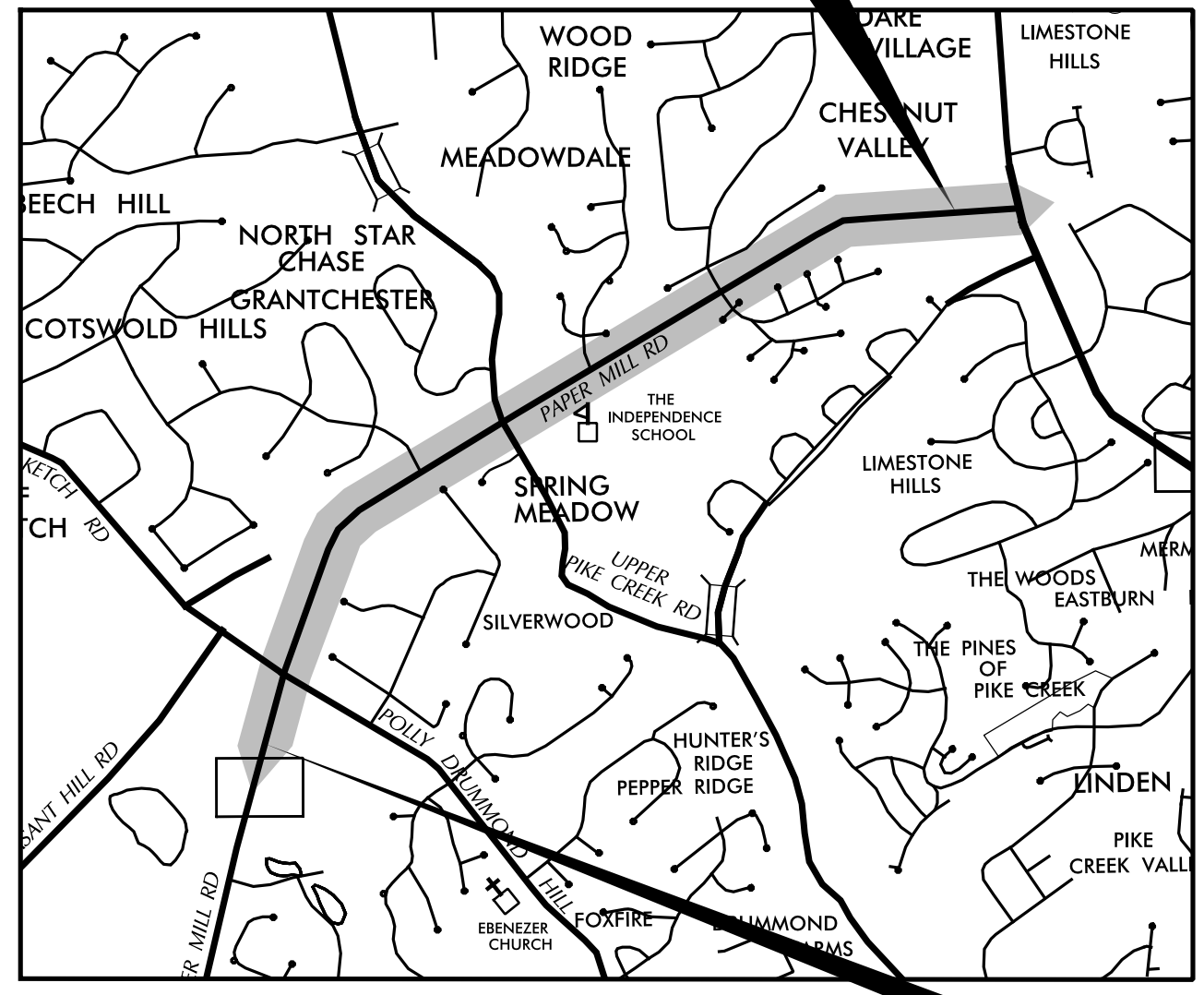
APPROVED DESIGN EXCEPTIONS		
DESIGN PARAMETER	REQUIRED	PROVIDED

ASSOCIATED CONTRACTS	
CONTRACT NO.	CONTRACT NAME
T201611601	SR 2/RED MILL ROAD INTERSECTION IMPROVEMENTS

APPROVED FOR ADVERTISEMENT

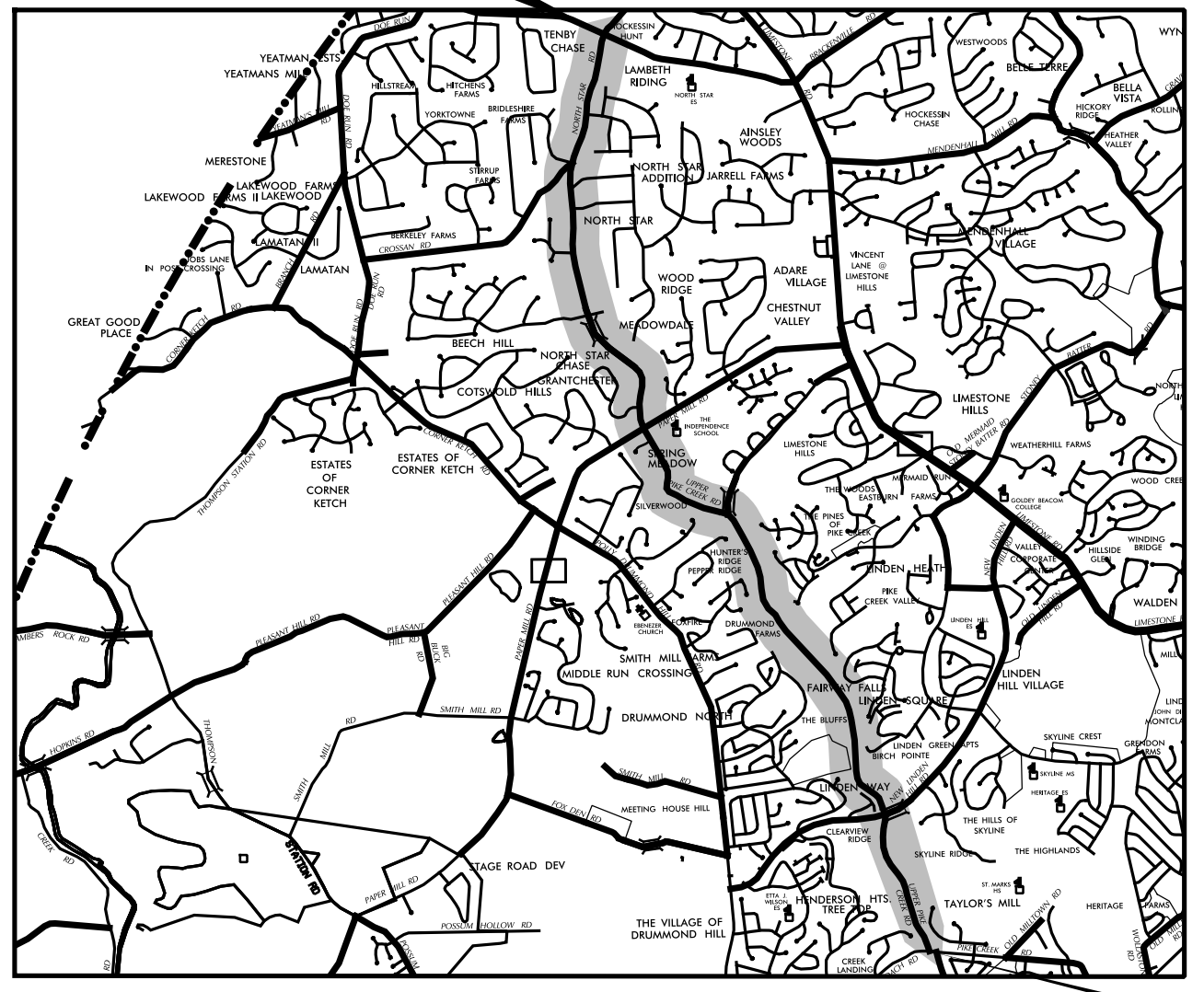
[Signature] 08/22/2025
DELDOT CHIEF ENGINEER DATE

LIMIT OF CONSTRUCTION
PAPER MILL ROAD
CONTRACT NO. T202406101



PAPER MILL ROAD
SCALE: N. T. S.

LIMIT OF CONSTRUCTION
LITTLE BALTIMORE ROAD
CONTRACT NO. T202406101



UPPER PIKE CREEK ROAD/NORTH
STAR ROAD
SCALE: N. T. S.

LIMIT OF CONSTRUCTION
STARLING STREET
CONTRACT NO. T202406101

LIMIT OF CONSTRUCTION
PIKE CREEK ROAD
CONTRACT NO. T202406101

PREPARED BY
JMT (SIGNING AND STRIPING PLANS)

Mi Wahed 07/22/2025
DATE

THIS SEAL APPLIES TO ALL SHEETS
BEARING THE "JMT" SECTION DESIGNATION.

MIR A. WAHED
LICENSE
No. 14810
DELAWARE
PROFESSIONAL ENGINEER

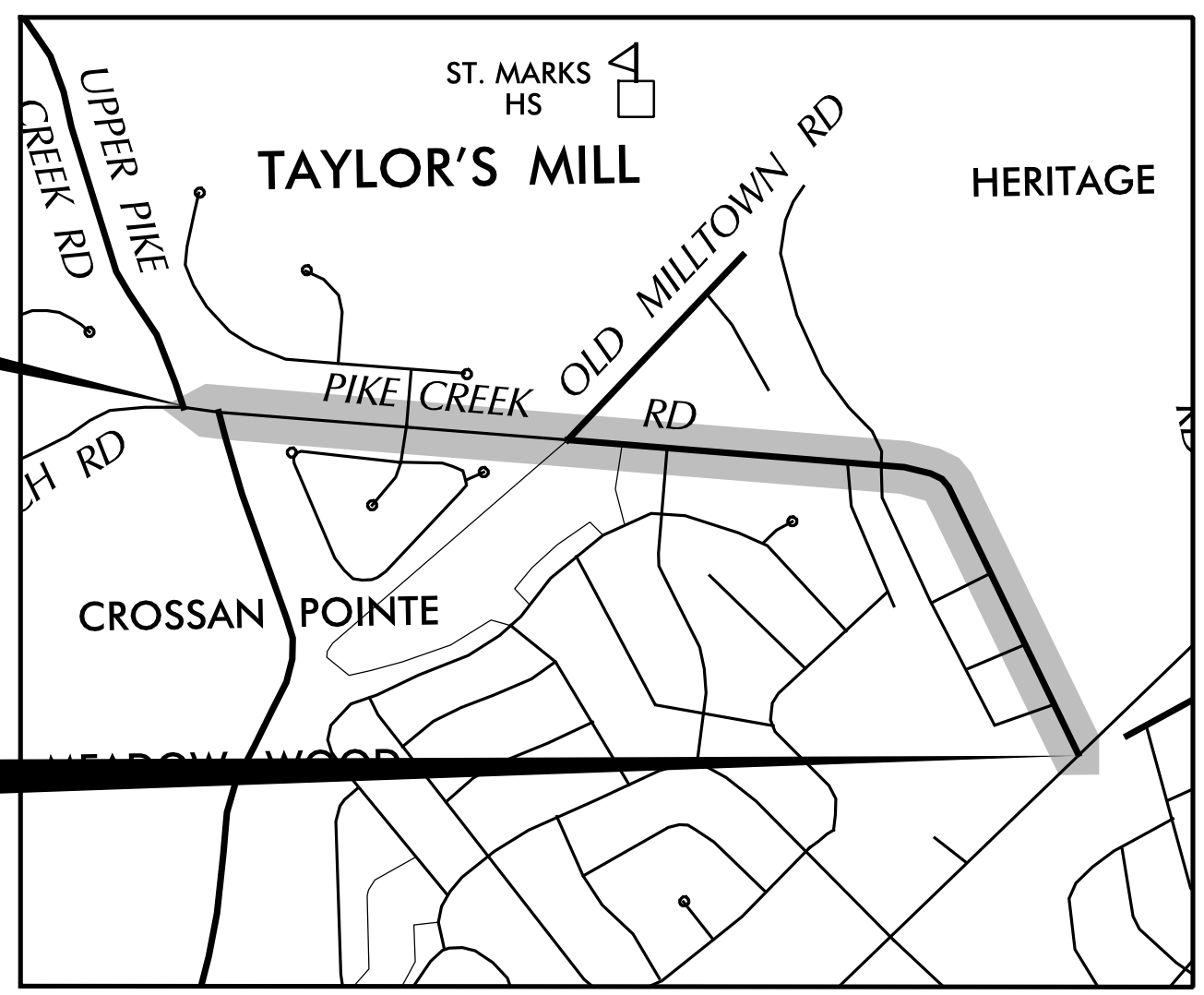
PREPARED BY
JMT (ADA & GUARDRAIL PLANS)

William Dougherty 07/22/2025
DATE

THIS SEAL APPLIES TO ALL SHEETS
BEARING THE "JMT" SECTION DESIGNATION.

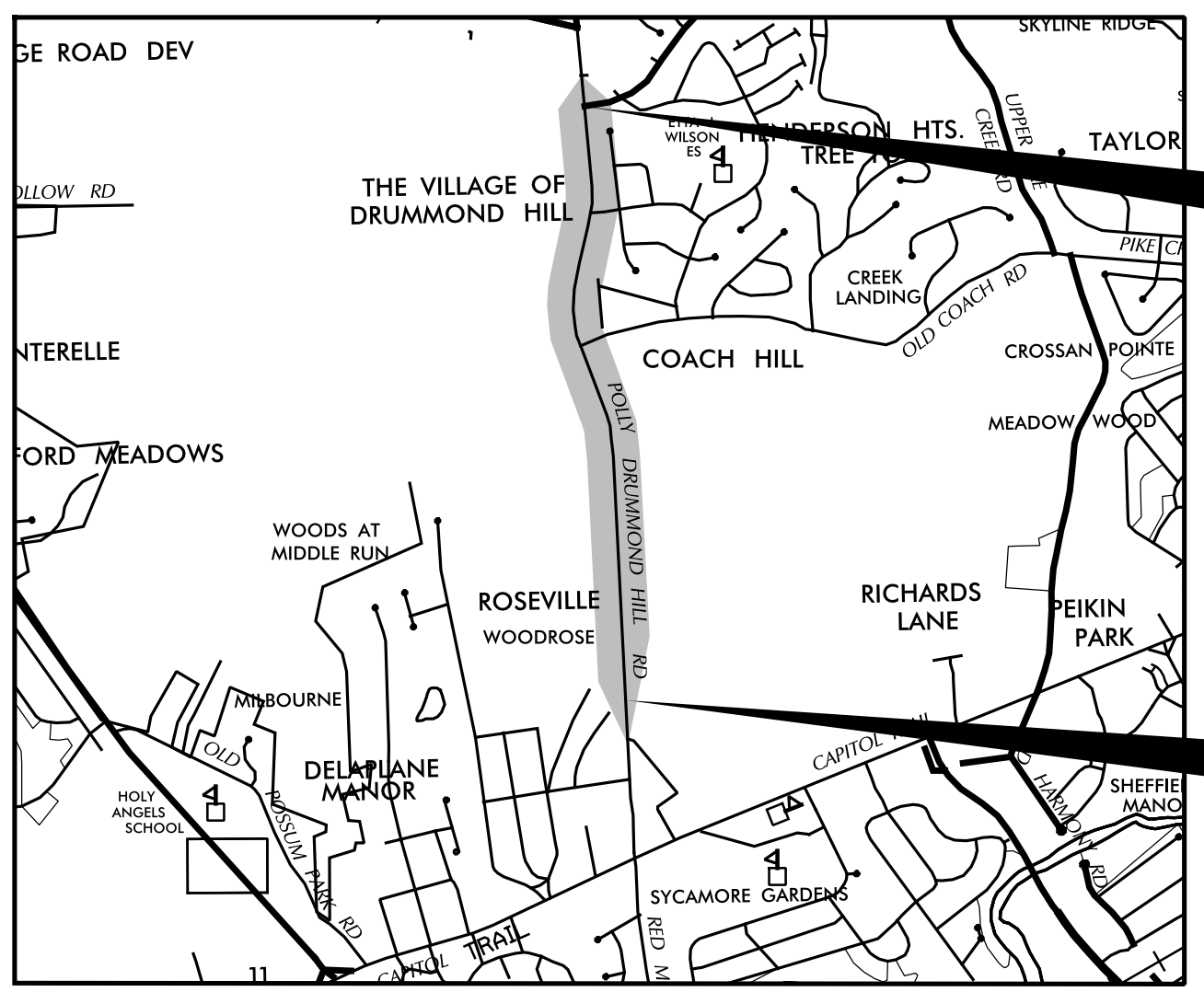
WILLIAM J. DOUGHERTY
REGISTERED
No. 13174
DELAWARE
PROFESSIONAL ENGINEER

LIMIT OF CONSTRUCTION
UPPER PIKE CREEK ROAD
CONTRACT NO. T202406101



PIKE CREEK ROAD
SCALE: N. T. S.

LIMIT OF CONSTRUCTION
NEW LINDEN HILL ROAD
CONTRACT NO. T202406101



POLLY DRUMMOND HILL ROAD
SCALE: N. T. S.

LIMIT OF CONSTRUCTION
KIRKWOOD HIGHWAY (SR 2)
CONTRACT NO. T202406101

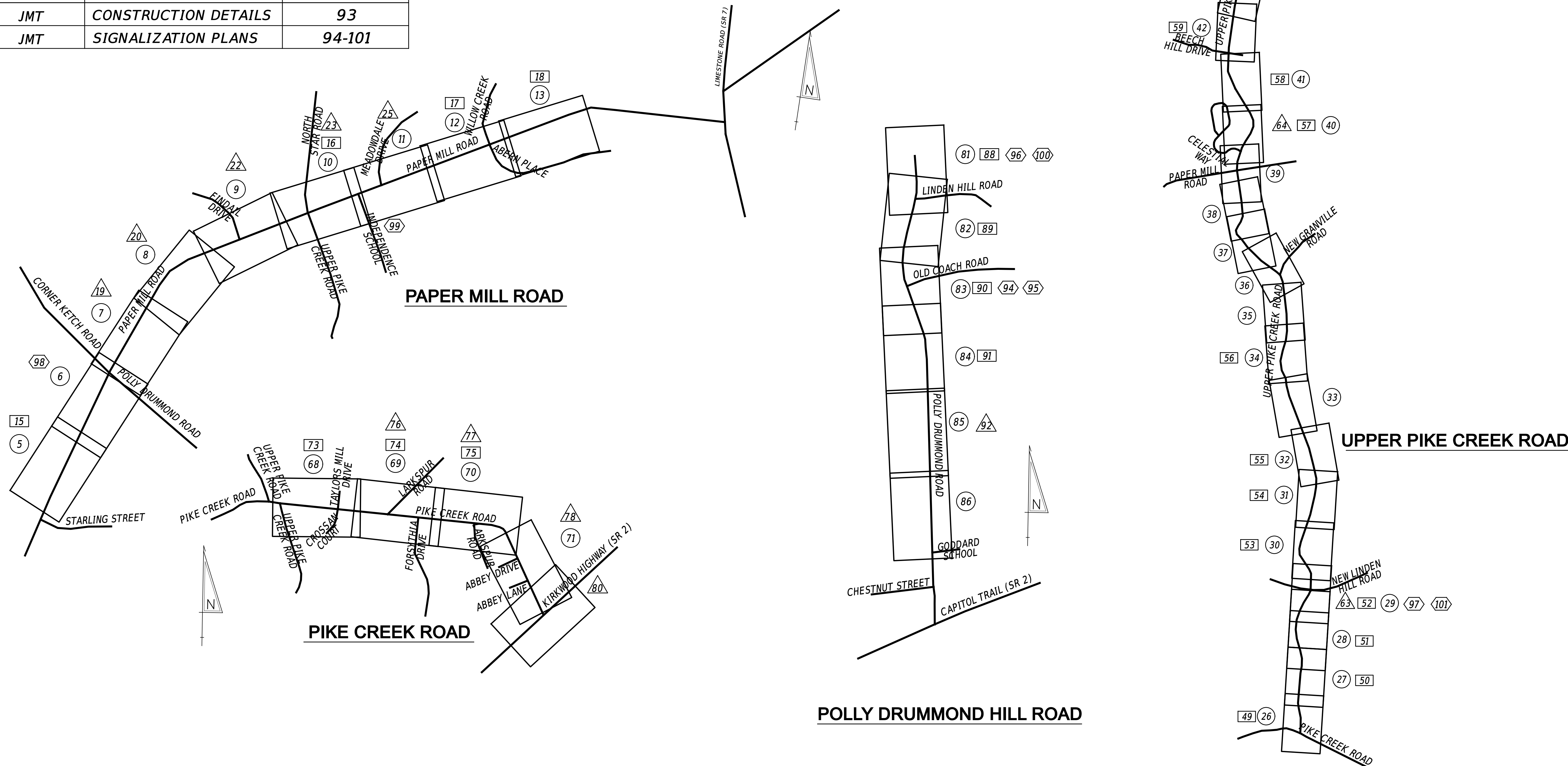
LIMIT OF CONSTRUCTION
550' NORTH OF CHESTNUT STREET
CONTRACT NO. T202406101

INDEX OF SHEETS

SECTION	SHEET DESCRIPTION	SHEET NO(S)
JMT	TITLE	1
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LEGEND

- SIGNING AND STRIPING PLANS (XX)
- PEDESTRIAN IMPROVEMENT PLANS (XX)
- GUARDRAIL PLANS (XX)
- SIGNALIZATION PLANS (XX)



23-JUL-2025
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ADDENDUMS / REVISIONS

NOT TO SCALE

**PAVEMENT & REHABILITATION,
NORTH I, 2024**

CONTRACT	ROAD NO.	N013/N295/N316/N328
T202406101.02	DESIGNED BY:	J. CLEM
COUNTY	CHECKED BY:	R. KUSY
NEW CASTLE		

INDEX OF SHEETS

SECTION	JMT
SHEET NO.	2

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ADDENDUMS / REVISIONS

NOT TO SCALE

**PAVEMENT & REHABILITATION
NORTH I, 2024
PAPER MILL ROAD**

CONTRACT
T202406101.02
COUNTY
NEW CASTLE

ROAD NO. **N013**
DESIGNED BY: M. TAPLIN
CHECKED BY: B. DOUGHERTY

**ADDENDA AND
REVISIONS**

SECTION
JMT
SHEET NO.
3

SIGNING AND STRIPING GENERAL NOTES

- THIS PROJECT IS TO BE CONSTRUCTED IN ACCORDANCE WITH THE DELAWARE DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS", DATED JANUARY 2024 AND THE DELAWARE DEPARTMENT OF TRANSPORTATION "STANDARD CONSTRUCTION DETAILS", DATED 2024.
- PLANS HAVE BEEN DESIGNED BASED ON FIELD INVESTIGATIONS PERFORMED ON AUGUST 16TH, 2023. CHANGES TO SIGNING OR LANE GEOMETRY AFTER AUGUST 16TH, 2023 HAVE NOT BEEN ACCOUNTED FOR IN PROPOSED IMPROVEMENTS.
- ROADWAY GEOMETRY IS BASED OFF AERIAL PHOTOGRAPHY. CONTRACTOR SHALL FOLLOW PROPOSED STRIPING AND PAVEMENT MARKINGS LEGEND. LOCATIONS OF EXISTING STRIPING SHOWN ON AERIAL ARE NOT TO BE REPRODUCED.
- THE CONTRACTOR SHALL BE GOVERNED BY THE STANDARDS AND REQUIREMENTS OF THE FOLLOWING PUBLICATIONS. EXCEPT AS MODIFIED BY THE SPECIAL PROVISIONS OF THIS CONTRACT OR THROUGH WRITTEN APPROVAL BY THE ENGINEER.
 - DELDOT - 'MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES', 2011 EDITION AND SUBSEQUENT REVISIONS (MUTCD)
 - A.A.S.H.T.O. - STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS - 6TH EDITION AND SUBSEQUENT PUBLICATIONS.
 - F.H.W.A. - STANDARD HIGHWAY SIGNS AND MARKINGS, 2004 EDITION AND 2012 SUPPLEMENT
- INSTALL NEW 12' OR 15' SIGN POSTS WHERE ADDITIONAL SIGN HEIGHT IS WARRANTED.
- MATCH EXISTING STRIPING CENTERLINE(S); REPLACE CENTERLINE STRIPING IN-PLACE OF EXISTING, UNLESS NOTED OTHERWISE. TRAVEL LANE WIDTH DIMENSIONS ARE SHOWN FROM THE STRIPING CENTERLINE(S) TO THE EDGE OF TRAVEL LANE. PLEASE NOTE: SHOULDER WIDTHS VARY THROUGHOUT CORRIDORS.
- INSTALL RAISED PAVEMENT MARKERS ALONG PAPER MILL ROAD IN ACCORDANCE WITH THE DE MUTCD SECTION 3B-11. RAISED PAVEMENT MARKERS WILL BE PAID UNDER ITEM #817027 - RAISED/RECESSED PAVEMENT MARKER.
- PROPOSED SIGNAL DETECTION LOOPS ARE SHOWN ON THE SIGNING AND STRIPING PLANS. VERIFY ACTUAL LOCATIONS WITH SIGNAL MAINTENANCE AT 302-760-2726 BEFORE PLACING THE LOOPS IN THE FINAL WEARING SURFACE.
- SEE AS BUILT SIGNAL PLANS FOR WAVETRONIX DETECTION.
- SEE REDLINED SIGNAL PLANS FOR SIGNAL HEAD, OPTICOM, SIGNAL HEAD CABLE, AND OPTICOM CABLE REPLACEMENT WORK FOR THE N259 - POLLY DRUMMOND HILL ROAD & NEW LINDEN HILL ROAD SIGNAL AND THE N581 - NEW LINDEN HILL ROAD & UPPER PIKE CREEK ROAD SIGNAL.
- IN ORDER TO MAINTAIN EFFECTIVE COMMUNICATION WITH THE TRAVELING PUBLIC, ONLY PLACE SIGNS, BANNERS, FLAGS OR OTHER DISPLAYS WITHIN THE PROJECT LIMITS THAT MEET THE REQUIREMENTS OF THE LATEST VERSION OF THE DELAWARE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES. ANY SIGNS OR OTHER MATERIALS WHICH DEVIATE FROM THE MUTCD, MUST BE APPROVED BY THE ENGINEER. THE ONLY SIGNAGE AND MATERIALS WHICH MAY BE DISPLAYED UPON VEHICLES AND EQUIPMENT WITHIN THE PROJECT AREA ARE SIGNS DENOTING THE NAME OF THE CONTRACTOR AND ANY SUBCONTRACTORS AND OTHER SIGNS AND/OR MATERIALS REQUIRED AND APPROVED PURSUANT TO THE MUTCD AND THE ENGINEER. CONTRACTOR SHALL REMOVE ANY SIGNS OR MATERIALS WITHIN THE PROJECT THAT DO NOT MEET THESE REQUIREMENTS IMMEDIATELY UPON NOTIFICATIONS BY THE ENGINEER. FAILURE TO REMOVE SIGNS OR OTHER MATERIALS FOLLOWING NOTIFICATION FROM THE ENGINEER WILL RESULT IN LIQUIDATED DAMAGES BEING ASSESSED IN THE MANNER AND AMOUNT SPECIFIED IN THE STANDARD SPECIFICATIONS SECTION 108.9A.

ALLOWABLE HOURS FOR LANE CLOSURES ON PIKE CREEK ROAD

	12:00 AM	1:00 AM	2:00 AM	3:00 AM	4:00 AM	5:00 AM	6:00 AM	7:00 AM	8:00 AM	9:00 AM	10:00 AM	11:00 AM	12:00 PM	1:00 PM	2:00 PM	3:00 PM	4:00 PM	5:00 PM	6:00 PM	7:00 PM	8:00 PM	9:00 PM	10:00 PM	11:00 PM	
SUNDAY																									
MONDAY																									
TUESDAY																									
WEDNESDAY																									
THURSDAY																									
FRIDAY																									
SATURDAY																									

SINGLE LANE AND TURN LANE CLOSURE PERMITTED
 ALL LANES OPEN

ALLOWABLE HOURS FOR LANE CLOSURES ON PAPER MILL ROAD AND POLLY DRUMMOND HILL ROAD

	12:00 AM	1:00 AM	2:00 AM	3:00 AM	4:00 AM	5:00 AM	6:00 AM	7:00 AM	8:00 AM	9:00 AM	10:00 AM	11:00 AM	12:00 PM	1:00 PM	2:00 PM	3:00 PM	4:00 PM	5:00 PM	6:00 PM	7:00 PM	8:00 PM	9:00 PM	10:00 PM	11:00 PM	
SUNDAY																									
MONDAY																									
TUESDAY																									
WEDNESDAY																									
THURSDAY																									
FRIDAY																									
SATURDAY																									

SINGLE LANE AND TURN LANE CLOSURE PERMITTED
 ALL LANES OPEN

ALLOWABLE HOURS FOR DETOURING NORTH STAR ROAD AND UPPER PIKE CREEK ROAD

	12:00 AM	1:00 AM	2:00 AM	3:00 AM	4:00 AM	5:00 AM	6:00 AM	7:00 AM	8:00 AM	9:00 AM	10:00 AM	11:00 AM	12:00 PM	1:00 PM	2:00 PM	3:00 PM	4:00 PM	5:00 PM	6:00 PM	7:00 PM	8:00 PM	9:00 PM	10:00 PM	11:00 PM	
SUNDAY																									
MONDAY																									
TUESDAY																									
WEDNESDAY																									
THURSDAY																									
FRIDAY																									
SATURDAY																									

ROADWAY DETOUR PERMITTED
 ROADWAY OPEN

PEDESTRIAN IMPROVEMENTS GENERAL NOTES

- PEDESTRIAN CONNECTIONS EVALUATED FOR COMPLIANCE ON AUGUST 29TH, 2023.
- ANY CHANGES TO THE PEDESTRIAN CONNECTIONS AFTER AUGUST 29TH, 2023 HAVE NOT BEEN ACCOUNTED FOR IN PROPOSED IMPROVEMENTS.
- IMPROVEMENTS TO PEDESTRIAN CONNECTIONS INCLUDED ARE BASED ON THE LIMITS OF PAVEMENT. IF THE LIMIT OF PAVEMENT IS INCREASED CONTACT THE ENGINEER.
- IF REHABILITATION OF PAVEMENT DAMAGES PEDESTRIAN CONNECTIONS NOT PROPOSED FOR REMEDIATION CONTACT ENGINEER.

MOT GENERAL NOTES

- MAINTENANCE OF TRAFFIC DURING LANE CLOSURES SHALL CONFORM TO TYPICAL APPLICATION TA-3, TA-3A, TA-10, TA-11B, TA-17A, TA-21, TA-21A, TA-23, TA-27, TA-33, AND TA-35D OF THE DELAWARE MUTCD AS NECESSARY.
- WHEN UTILIZING TA-10, THE CLOSED PORTION OF THE TRAVEL LANE SHALL NOT EXCEED 1000 FEET.
- MAINTAIN PEDESTRIAN ACCESS UTILIZING PEDESTRIAN FLAGGERS AND/OR TA-28 AND TA-29 OF THE DELAWARE MUTCD AS NECESSARY.
- MAINTAIN ACCESS TO ALL DRIVEWAYS AT ALL TIMES EXCEPT AS NOTED.
- UNLESS NOTED ELSEWHERE, LANE CLOSURE MATRICES INDICATE THE ALLOWABLE WORK TIMES FOR TRAVEL AND TURN LANE CLOSURES ON ALL ROADS WITHIN THE PROJECT LIMITS.

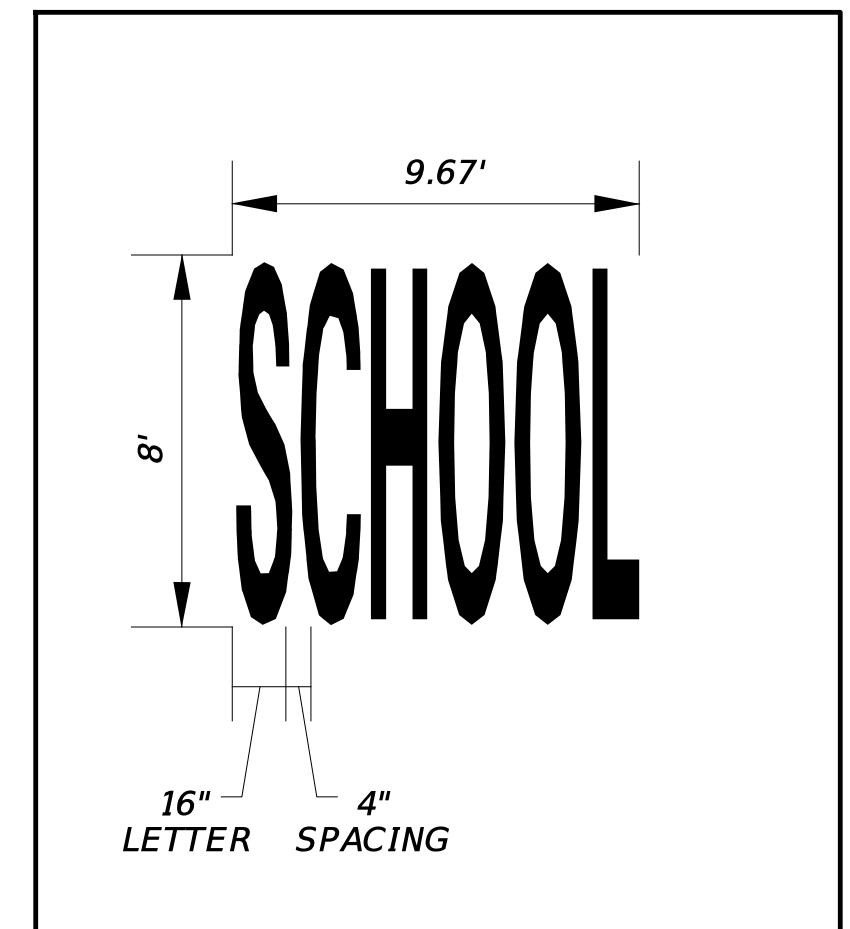
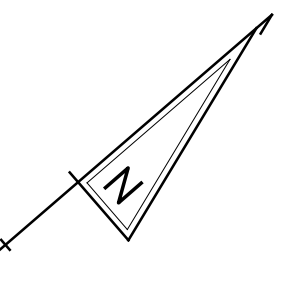


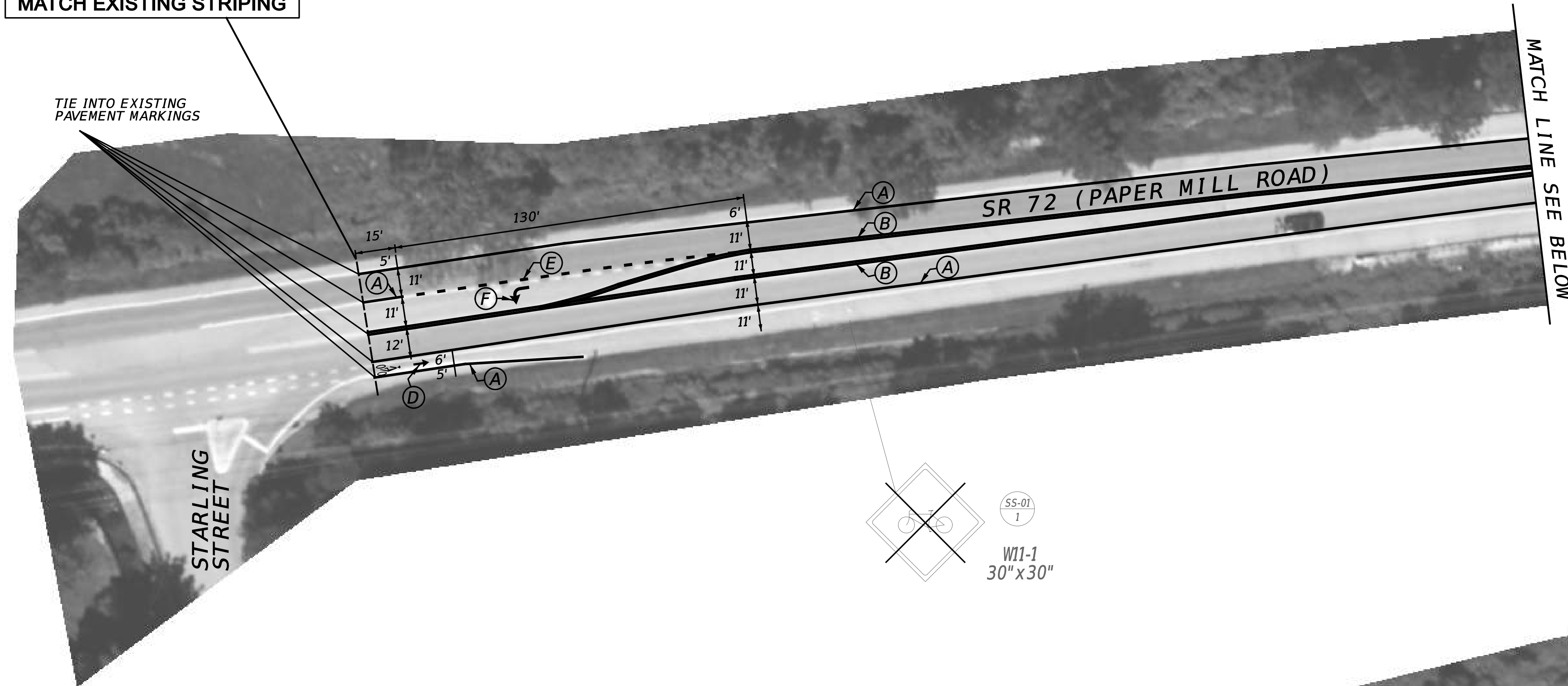
FIGURE 1
"SCHOOL" PAVEMENT MARKING
DETAIL FOR LANE WIDTH > 10.5'

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ADDENDUMS / REVISIONS	NOT TO SCALE	PAVEMENT & REHABILITATION, NORTH I, 2024	CONTRACT	ROAD NO.	N013/N295/N316/N328	PROJECT NOTES	SECTION
			T202406101.02	DESIGNED BY: J. CLEM	JMT		
			COUNTY	NEW CASTLE	CHECKED BY: R. KUSY		SHEET NO.

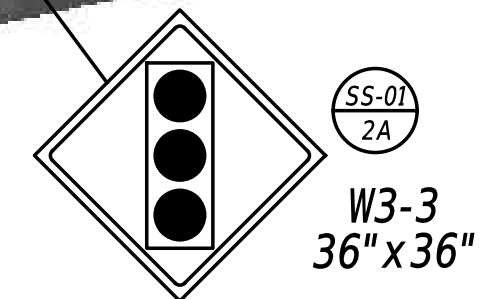
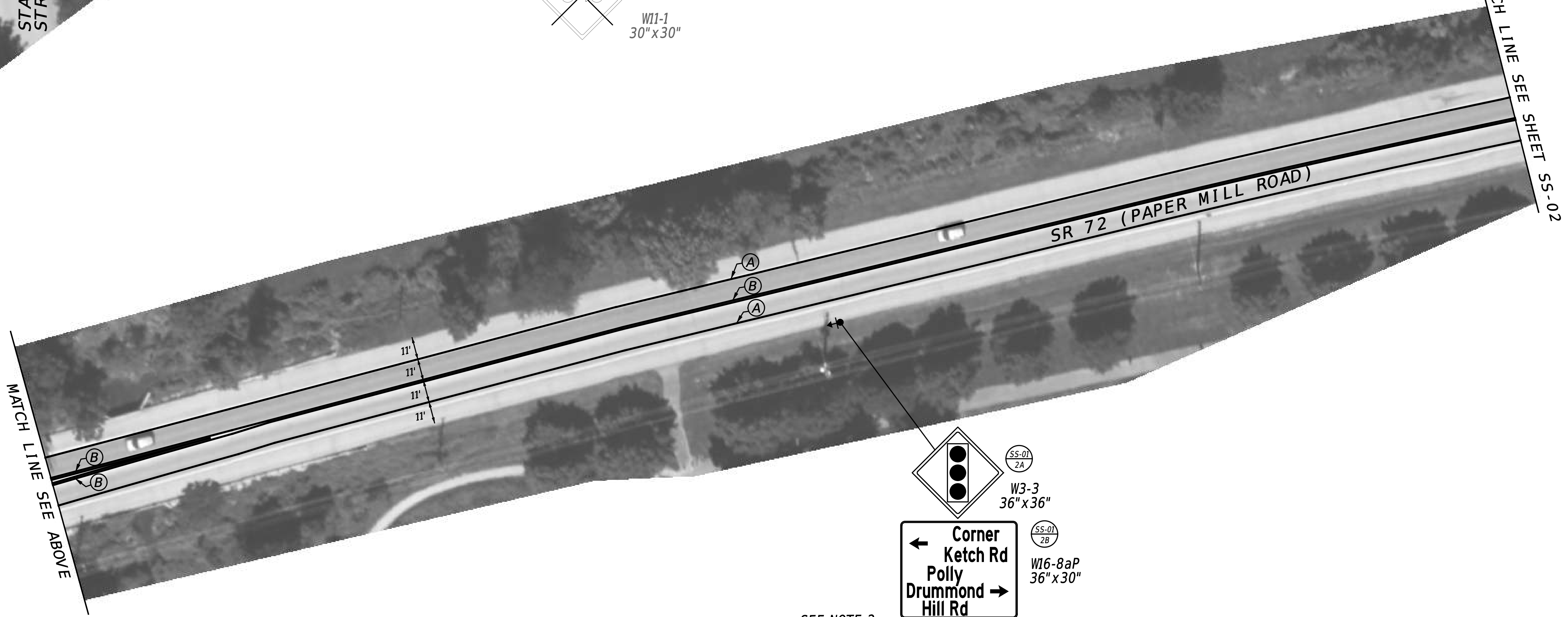
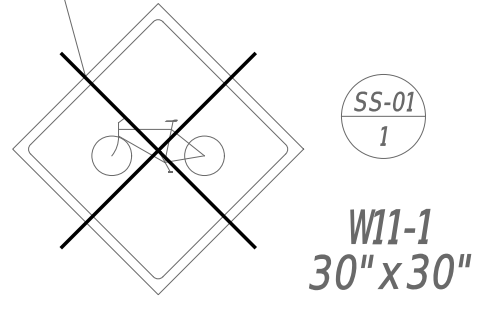


LIMITS OF CONSTRUCTION
CONTRACT NO. T202406101
MATCH EXISTING STRIPING



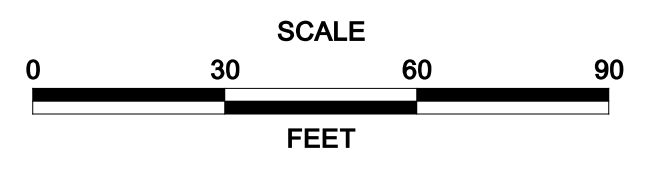
PAVEMENT MARKINGS LEGEND		
SYMBOL	DESCRIPTION	QUANTITY
(A)	EPOXY RESIN PAVEMENT STRIPING, WHITE 6" SOLID (ITEM 817042)	2,745 LF
(B)	EPOXY RESIN PAVEMENT STRIPING, YELLOW 6" SOLID DOUBLE (ITEM 817042)	3,740 LF
(D)	PREFORMED RETROREFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS, WHITE BIKE SYMBOL (ITEM 817015)	1 EA
(E)	EPOXY RESIN PAVEMENT STRIPING, WHITE 6" DOTTED - 2' LINE & 6' GAP (ITEM 817042)	40 LF
(F)	ALKYD-THERMOPLASTIC PAVEMENT STRIPING, WHITE SYMBOL/LEGEND (ITEM 817002)	17 SF
	RAISED/RECESSED PAVEMENT MARKER (ITEM 817027)	30 EA

- NOTES:
- CONTRACTOR SHALL INSTALL RAISED PAVEMENT MARKERS ALONG PAPER MILL ROAD PAVING LIMITS IN ACCORDANCE WITH THE DE MUTCD SECTION 3B-11. RAISED PAVEMENT MARKERS SHALL BE PAID UNDER ITEM #817027.
 - W23-2P-DE PLAQUE TO BE REMOVED 6 MONTHS AFTER IMPLEMENTATION OF NEW STRIPING.



7/21/2025 12:06:14 PM c:\pwworking\jmt.com\0948122\SS - Paper Mill Road_Recline_Rev_2_28_2025.dgn

ADDENDUMS / REVISIONS



PAVEMENT & REHABILITATION,
NORTH I, 2024
PAPER MILL ROAD

CONTRACT	ROAD NO.	N013
T202406101.02	DESIGNED BY:	J. CLEM
COUNTY	CHECKED BY:	R. KUSY
NEW CASTLE		

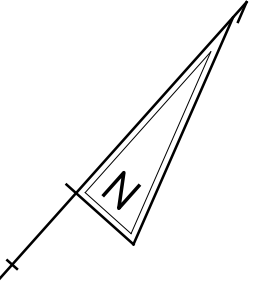
SIGNING AND STRIPING PLAN

SS-01
SECTION
JMT
SHEET NO.
5

PAVEMENT MARKINGS LEGEND		
SYMBOL		QUANTITY
(A)	EPOXY RESIN PAVEMENT STRIPING, WHITE 6" SOLID (ITEM 817042)	1,840 LF
(B)	EPOXY RESIN PAVEMENT STRIPING, YELLOW 6" SOLID DOUBLE (ITEM 817042)	2,620 LF
(D)	PREFORMED RETROREFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS, WHITE BIKE SYMBOL (ITEM 817015)	2 EA
(E)	EPOXY RESIN PAVEMENT STRIPING, WHITE 6" DOTTED - 2' LINE & 6' GAP (ITEM 817042)	115 LF
(F)	ALKYD-THERMOPLASTIC PAVEMENT STRIPING, WHITE SYMBOL/LEGEND (ITEM 817002)	51 SF
	RAISED/RECESSED PAVEMENT MARKER (ITEM 817027)	31 EA

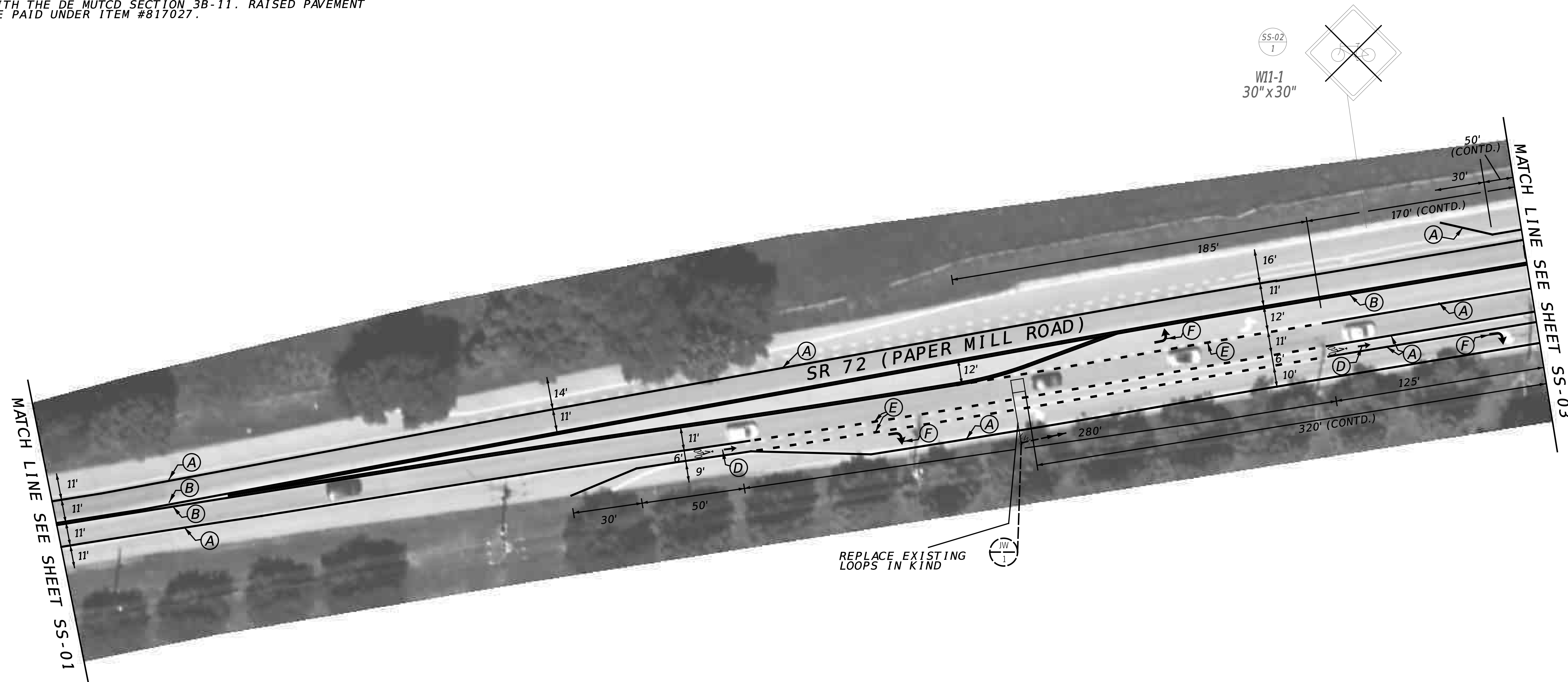
SIGNAL LEGEND	
PROPOSED LOOP DETECTOR, TYPE 1	
PROPOSED LOOP DETECTOR, TYPE 2	

SIGNAL LOOP QUANTITIES	
	QUANTITY
PROVIDE & INSTALL LOOP WIRE 1-CONDUCTOR #14 AWG ENCASED IN 1/4" FLEXIBLE TUBING IN A LOOP SAWCUT (ITEM 846001)	45 LF
PROVIDE & INSTALL A 1/2 INCH GALVANIZED RIGID METAL CONDUIT DETECTOR SLEEVE WITH LOOP WIRE (ITEM 846002)	10 LF



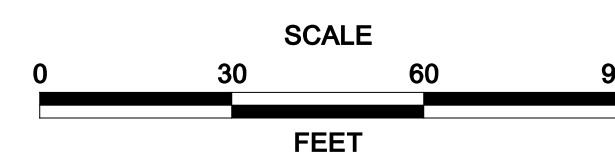
NOTES:

- SEE PROJECT NOTES SHEET 3 NOTE 9 FOR ADDITIONAL INFORMATION CONCERNING SIGNAL LOOPS.
- TRAFFIC CONTRACTOR TO INSTALL TEMPORARY DETECTION PER TEMPORARY SIGNAL PLAN PRIOR TO DISCONNECTING LOOPS.
- CONTACT DELDOT TMC 10 DAYS PRIOR TO DISCONNECTING AND RECONNECTING TRAFFIC SIGNAL DETECTION LOOPS AT 302-659-4600.
- SPLICE TRAFFIC SIGNAL DETECTION LOOP WIRES IN THE EXISTING JUNCTION WELLS. DO NOT DISTURB HOME RUN CABLES.
- TRAFFIC SIGNAL CONDUITS AND JUNCTION WELLS ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY. FIELD VERIFY ACTUAL JUNCTION WELL LOCATIONS FOR SPLICING TRAFFIC SIGNAL DETECTION LOOPS.
- CONTRACTOR SHALL INSTALL RAISED PAVEMENT MARKERS ALONG PAPER MILL ROAD PAVING LIMITS IN ACCORDANCE WITH THE DE MUTCD SECTION 3B-11. RAISED PAVEMENT MARKERS SHALL BE PAID UNDER ITEM #817027.



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ADDENDUMS / REVISIONS



**PAVEMENT & REHABILITATION,
NORTH I, 2024
PAPER MILL ROAD**

CONTRACT	ROAD NO.	N013
T202406101.02	DESIGNED BY:	J. CLEM
COUNTY	CHECKED BY:	R. KUSY
NEW CASTLE		

SIGNING AND STRIPING PLAN

SS-02
SECTION
JMT
SHEET NO.
6

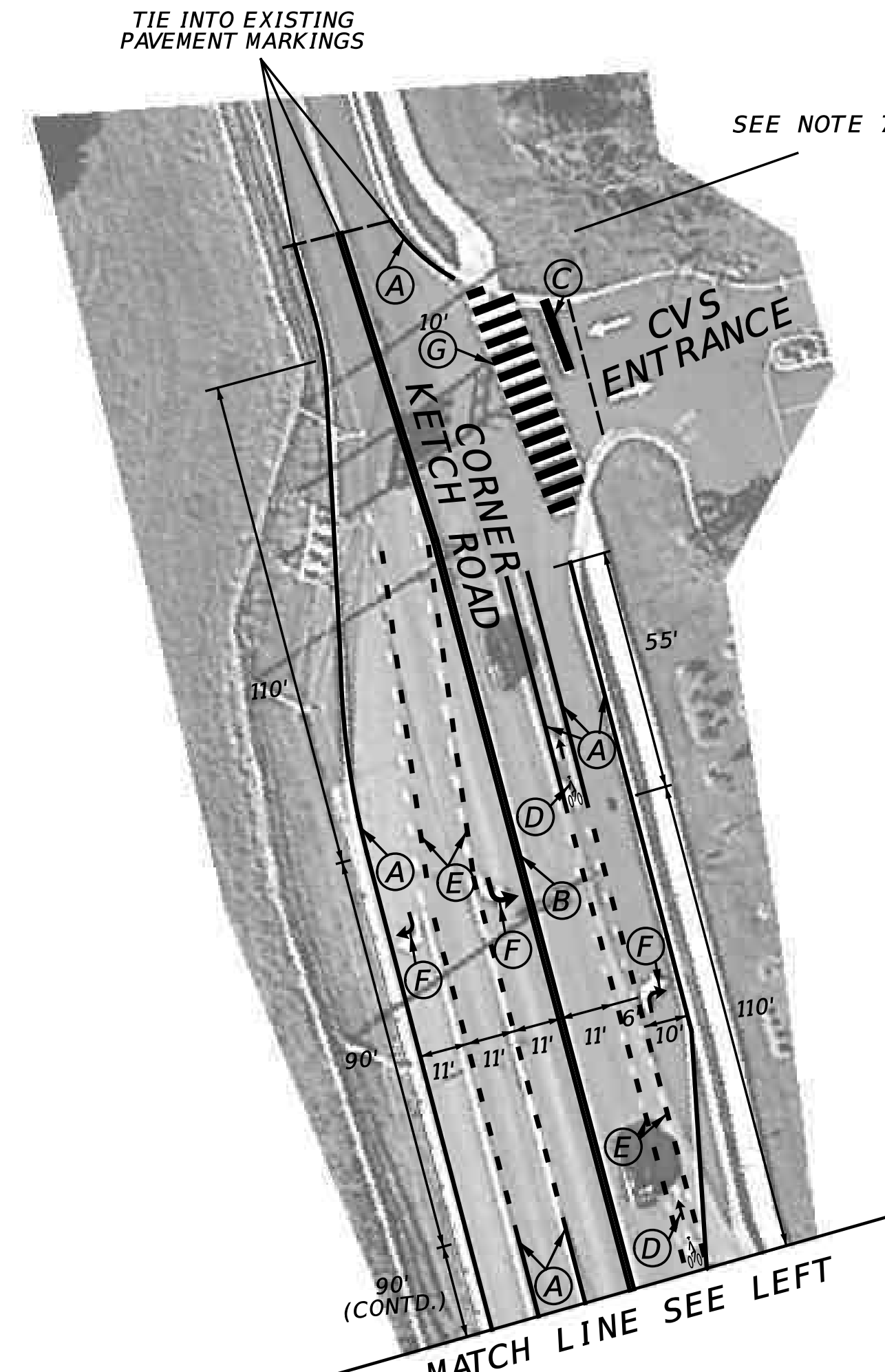
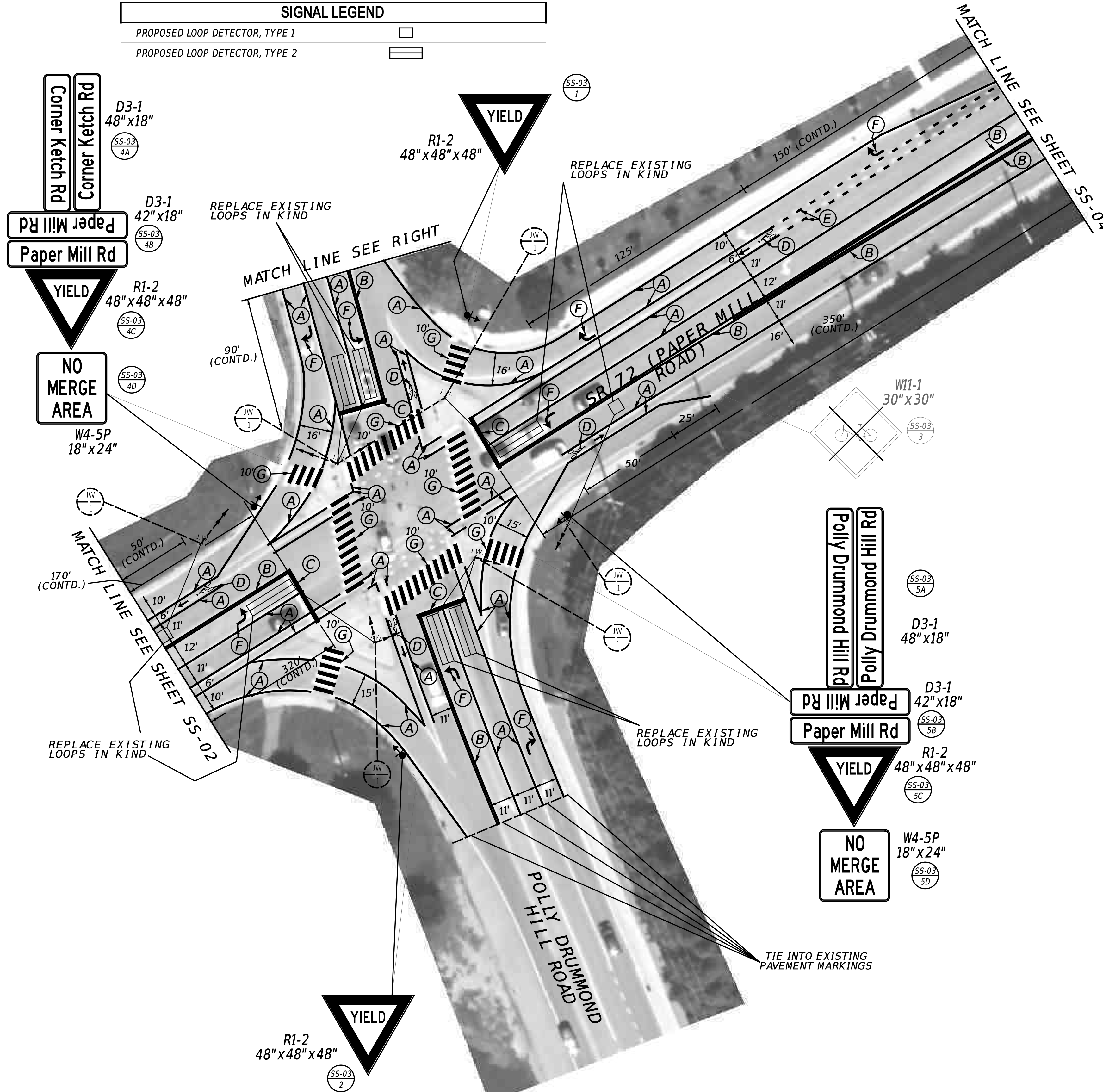
SIGNAL LOOP QUANTITIES	
	QUANTITY
PROVIDE & INSTALL LOOP WIRE 1-CONDUCTOR #14 AWG ENCASED IN 1/4" FLEXIBLE TUBING IN A LOOP SAWCUT (ITEM 846001)	825 LF
PROVIDE & INSTALL A 1/2 INCH GALVANIZED RIGID METAL CONDUIT DETECTOR SLEEVE WITH LOOP WIRE (ITEM 846002)	120 LF

SIGNAL LEGEND	
PROPOSED LOOP DETECTOR, TYPE 1	
PROPOSED LOOP DETECTOR, TYPE 2	

PAVEMENT MARKINGS LEGEND		
SYMBOL		QUANTITY
(A)	EPOXY RESIN PAVEMENT STRIPING, WHITE 6" SOLID (ITEM 817042)	4,595 LF
(B)	EPOXY RESIN PAVEMENT STRIPING, YELLOW 6" SOLID DOUBLE (ITEM 817042)	2,385 LF
(C)	ALKYD-THERMOPLASTIC PAVEMENT STRIPING, WHITE 16" SOLID (ITEM 817002)	177 SF
(D)	PREFORMED RETROREFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS, WHITE BIKE SYMBOL (ITEM 817015)	5 EA
(E)	EPOXY RESIN PAVEMENT STRIPING, WHITE 6" DOTTED - 2' LINE & 6' GAP (ITEM 817042)	425 LF
(F)	ALKYD-THERMOPLASTIC PAVEMENT STRIPING, WHITE SYMBOL/LEGEND (ITEM 817002)	204 SF
(G)	ALKYD-THERMOPLASTIC PAVEMENT STRIPING, WHITE 24" SOLID (ITEM 817002)	1649 SF
	RAISED/RECESSED PAVEMENT MARKER (ITEM 817027)	22 EA

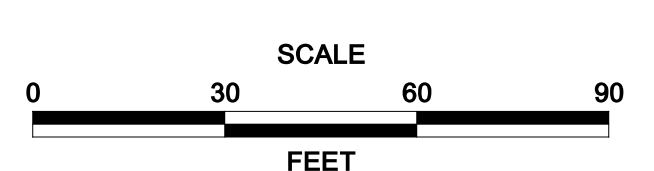
NOTES:

- SEE PROJECT NOTES SHEET 3 NOTE 9 FOR ADDITIONAL INFORMATION CONCERNING SIGNAL LOOPS.
- TRAFFIC CONTRACTOR TO INSTALL TEMPORARY DETECTION PER TEMPORARY SIGNAL PLAN PRIOR TO DISCONNECTING LOOPS. TEMPORARY WAVETRONIX DETECTION TO REMAIN DEACTIVATED IN ULTIMATE CONDITION AFTER ULTIMATE LOOP DETECTORS ARE OPERATIONAL.
- CONTACT DELDOT TMC 10 DAYS PRIOR TO DISCONNECTING AND RECONNECTING TRAFFIC SIGNAL DETECTION LOOPS AT 302-659-4600.
- SPlice TRAFFIC SIGNAL DETECTION LOOP WIRES IN THE EXISTING JUNCTION WELLS. DO NOT DISTURB HOME RUN CABLES.
- TRAFFIC SIGNAL CONDUITS AND JUNCTION WELLS ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY. FIELD VERIFY ACTUAL JUNCTION WELL LOCATIONS FOR SPLICING TRAFFIC SIGNAL DETECTION LOOPS.
- CONTRACTOR SHALL INSTALL RAISED PAVEMENT MARKERS ALONG PAPER MILL ROAD PAVING LIMITS IN ACCORDANCE WITH THE DE MUTCD SECTION 3B-11. RAISED PAVEMENT MARKERS SHALL BE PAID UNDER ITEM #817027.
- NEWER AERIAL HAS BEEN USED FOR THIS SHEET CUT DUE TO DRIVEWAY BEING LOCATED FURTHER UP CORNER KETCH ROAD



4/7/2025 12:04:06 PM c:\pwworking\jmt\clem\jmt\clem\mt.com\0948122155 - Paper Mill Road_Redline_Rev_2_28_2025.dgn

ADDENDUMS / REVISIONS

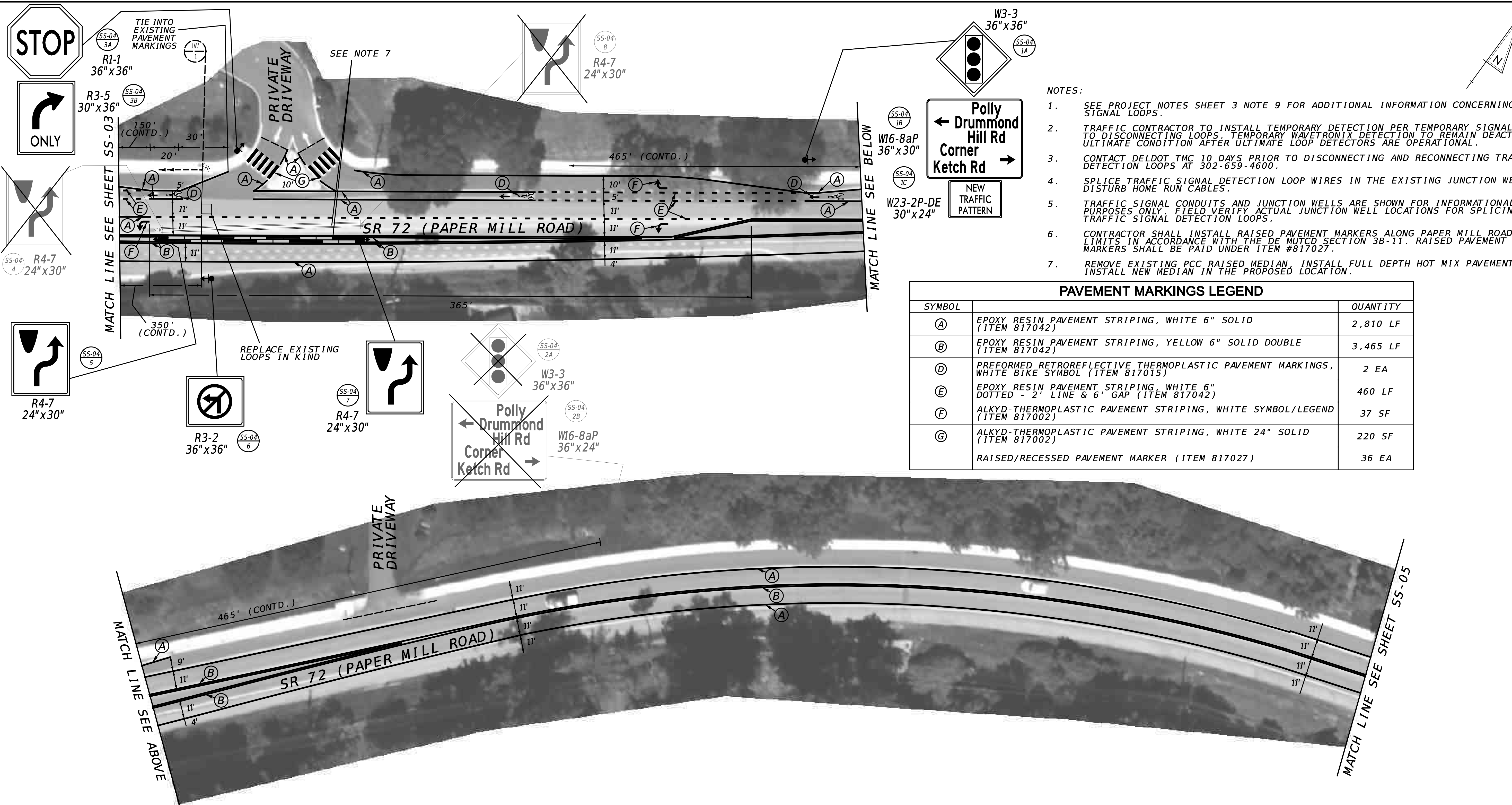


PAVEMENT & REHABILITATION,
NORTH I, 2024
PAPER MILL ROAD

CONTRACT	ROAD NO.	N013
T202406101.02	DESIGNED BY:	J. CLEM
COUNTY	CHECKED BY:	R. KUSY
NEW CASTLE		

SIGNING AND STRIPING PLAN

SS-03
SECTION
JMT
SHEET NO.
7



- NOTES:**
- SEE PROJECT NOTES SHEET 3 NOTE 9 FOR ADDITIONAL INFORMATION CONCERNING SIGNAL LOOPS.
 - TRAFFIC CONTRACTOR TO INSTALL TEMPORARY DETECTION PER TEMPORARY SIGNAL PLAN PRIOR TO DISCONNECTING LOOPS. TEMPORARY WAVE TRONIX DETECTION TO REMAIN DEACTIVATED IN ULTIMATE CONDITION AFTER ULTIMATE LOOP DETECTORS ARE OPERATIONAL.
 - CONTACT DELDOT TMC 10 DAYS PRIOR TO DISCONNECTING AND RECONNECTING TRAFFIC SIGNAL DETECTION LOOPS AT 302-659-4600.
 - SPLICE TRAFFIC SIGNAL DETECTION LOOP WIRES IN THE EXISTING JUNCTION WELLS. DO NOT DISTURB HOME RUN CABLES.
 - TRAFFIC SIGNAL CONDUITS AND JUNCTION WELLS ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY. FIELD VERIFY ACTUAL JUNCTION WELL LOCATIONS FOR SPLICING TRAFFIC SIGNAL DETECTION LOOPS.
 - CONTRACTOR SHALL INSTALL RAISED PAVEMENT MARKERS ALONG PAPER MILL ROAD PAVING LIMITS IN ACCORDANCE WITH THE DE MUTCD SECTION 3B-11. RAISED PAVEMENT MARKERS SHALL BE PAID UNDER ITEM #817027.
 - REMOVE EXISTING PCC RAISED MEDIAN. INSTALL FULL DEPTH HOT MIX PAVEMENT AND INSTALL NEW MEDIAN IN THE PROPOSED LOCATION.

PAVEMENT MARKINGS LEGEND

SYMBOL	DESCRIPTION	QUANTITY
(A)	EPOXY RESIN PAVEMENT STRIPING, WHITE 6" SOLID (ITEM 817042)	2,810 LF
(B)	EPOXY RESIN PAVEMENT STRIPING, YELLOW 6" SOLID DOUBLE (ITEM 817042)	3,465 LF
(D)	PREFORMED RETROREFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS, WHITE BIKE SYMBOL (ITEM 817015)	2 EA
(E)	EPOXY RESIN PAVEMENT STRIPING, WHITE 6" DOTTED - 2' LINE & 6' GAP (ITEM 817042)	460 LF
(F)	ALKYD-THERMOPLASTIC PAVEMENT STRIPING, WHITE SYMBOL/LEGEND (ITEM 817002)	37 SF
(G)	ALKYD-THERMOPLASTIC PAVEMENT STRIPING, WHITE 24" SOLID (ITEM 817002)	220 SF
	RAISED/RECESSED PAVEMENT MARKER (ITEM 817027)	36 EA

SIGNAL LEGEND

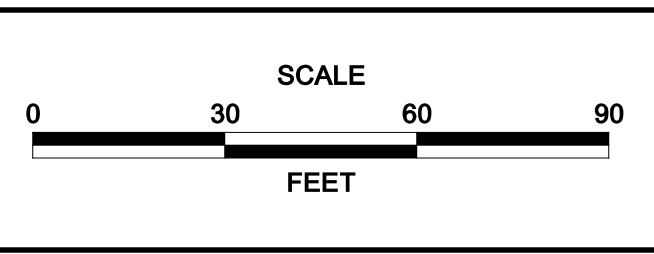
PROPOSED LOOP DETECTOR, TYPE 1	
PROPOSED LOOP DETECTOR, TYPE 2	

SIGNAL LOOP QUANTITIES

DESCRIPTION	QUANTITY
PROVIDE & INSTALL LOOP WIRE 1-CONDUCTOR #14 AWG ENCASED IN 1/4" FLEXIBLE TUBING IN A LOOP SAWCUT (ITEM 846001)	45 LF
PROVIDE & INSTALL A 1/2 INCH GALVANIZED RIGID METAL CONDUIT DETECTOR SLEEVE WITH LOOP WIRE (ITEM 846002)	5 LF

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ADDENDUMS / REVISIONS



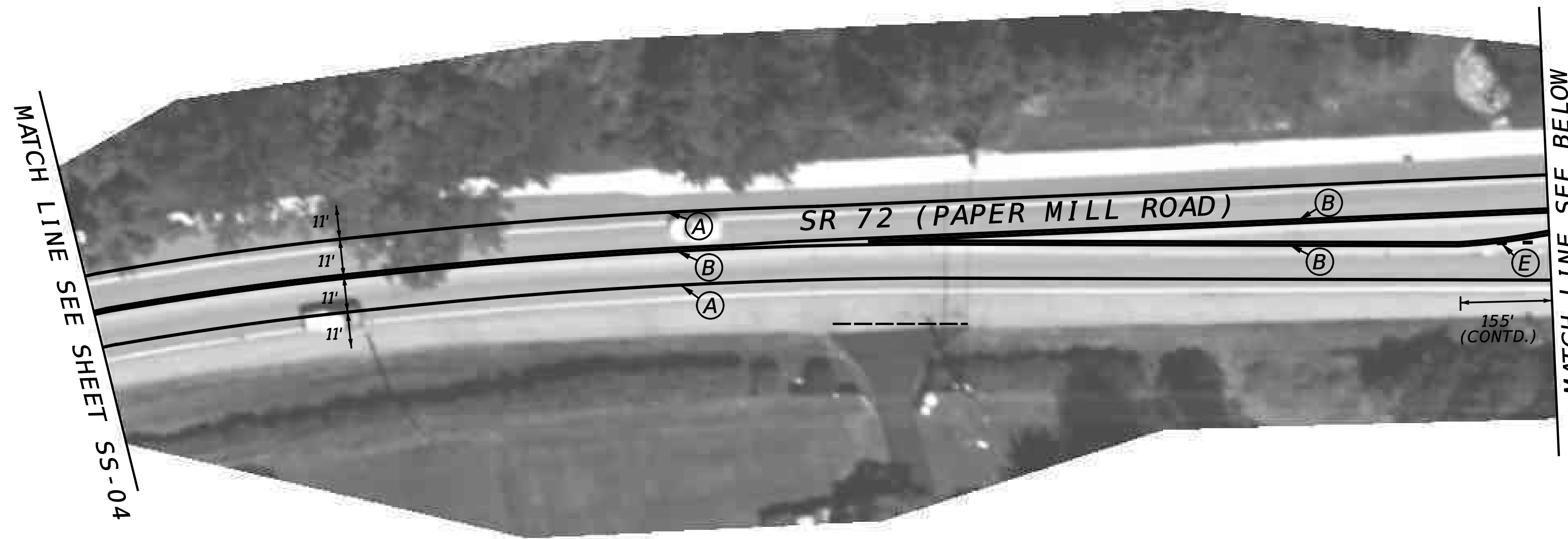
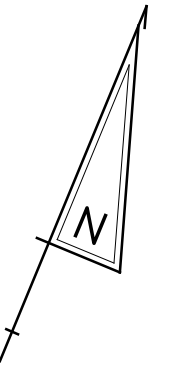
**PAVEMENT & REHABILITATION,
NORTH I, 2024
PAPER MILL ROAD**

CONTRACT	T202406101.02	ROAD NO.	N013
COUNTY	NEW CASTLE	DESIGNED BY:	J. CLEM
		CHECKED BY:	R. KUSY

SIGNING AND STRIPING PLAN

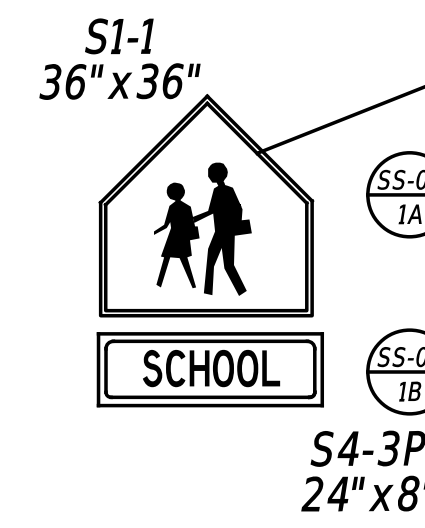
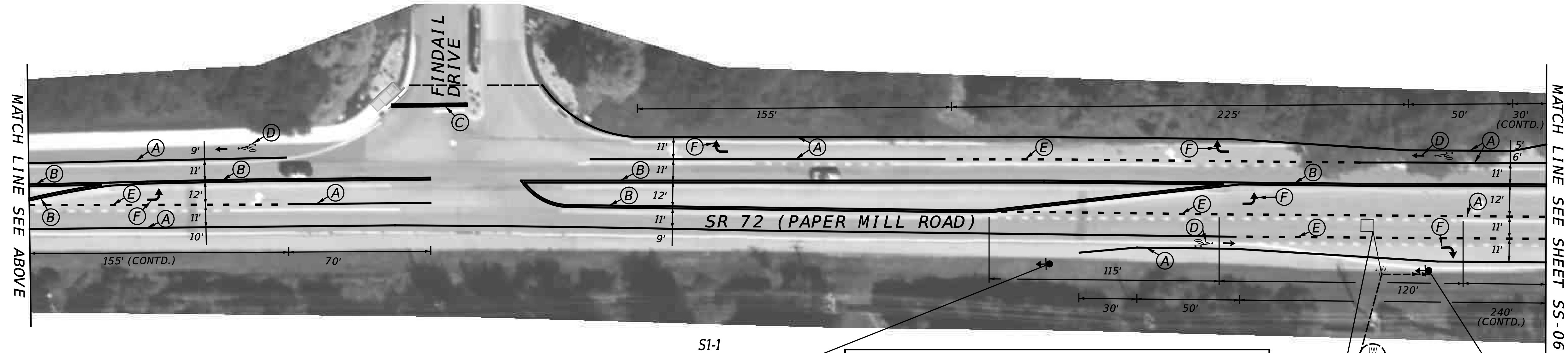
SS-04
SECTION
JMT
SHEET NO.
8

PAVEMENT MARKINGS LEGEND		
SYMBOL	DESCRIPTION	QUANTITY
(A)	EPOXY RESIN PAVEMENT STRIPING, WHITE 6" SOLID (ITEM 817042)	2,905 LF
(B)	EPOXY RESIN PAVEMENT STRIPING, YELLOW 6" SOLID DOUBLE (ITEM 817042)	3,905 LF
(C)	ALKYD-THERMOPLASTIC PAVEMENT STRIPING, WHITE 16" SOLID (ITEM 817002)	31 SF
(D)	PREFORMED RETROREFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS, WHITE BIKE SYMBOL (ITEM 817015)	3 EA
(E)	EPOXY RESIN PAVEMENT STRIPING, WHITE 6" DOTTED - 2' LINE & 6' GAP (ITEM 817042)	210 LF
(F)	ALKYD-THERMOPLASTIC PAVEMENT STRIPING, WHITE SYMBOL/LEGEND (ITEM 817002)	68 SF
	RAISED/RECESSED PAVEMENT MARKER (ITEM 817027)	41 EA



NOTES:

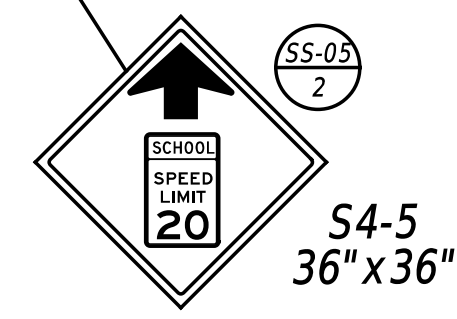
- SEE PROJECT NOTES SHEET 3 NOTE 9 FOR ADDITIONAL INFORMATION CONCERNING SIGNAL LOOPS.
- TRAFFIC CONTRACTOR TO INSTALL TEMPORARY DETECTION PER TEMPORARY SIGNAL PLAN PRIOR TO DISCONNECTING LOOPS. TEMPORARY WAVETRONIX DETECTION TO REMAIN DEACTIVATED IN ULTIMATE CONDITION AFTER ULTIMATE LOOP DETECTORS ARE OPERATIONAL.
- CONTACT DELDOT TMC 10 DAYS PRIOR TO DISCONNECTING AND RECONNECTING TRAFFIC SIGNAL DETECTION LOOPS AT 302-659-4600.
- SPLICE TRAFFIC SIGNAL DETECTION LOOP WIRES IN THE EXISTING JUNCTION WELLS. DO NOT DISTURB HOME RUN CABLES.
- TRAFFIC SIGNAL CONDUITS AND JUNCTION WELLS ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY. FIELD VERIFY ACTUAL JUNCTION WELL LOCATIONS FOR SPLICING TRAFFIC SIGNAL DETECTION LOOPS.
- CONTRACTOR SHALL INSTALL RAISED PAVEMENT MARKERS ALONG PAPER MILL ROAD PAVING LIMITS IN ACCORDANCE WITH THE DE MUTCD SECTION 3B-11. RAISED PAVEMENT MARKERS SHALL BE PAID UNDER ITEM #817027.
- SIGNS 1A AND 2B SHALL BE FLUORESCENT YELLOW GREEN SIGNS.



SIGNAL LEGEND	
PROPOSED LOOP DETECTOR, TYPE 1	
PROPOSED LOOP DETECTOR, TYPE 2	

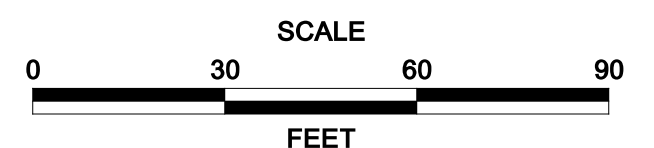
REPLACE EXISTING LOOPS IN KIND

SIGNAL LOOP QUANTITIES	
	QUANTITY
PROVIDE & INSTALL LOOP WIRE 1-CONDUCTOR #14 AWG ENCASED IN 1/4" FLEXIBLE TUBING IN A LOOP SAWCUT (ITEM 846001)	45 LF
PROVIDE & INSTALL A 1/2 INCH GALVANIZED RIGID METAL CONDUIT DETECTOR SLEEVE WITH LOOP WIRE (ITEM 846002)	5 LF



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ADDENDUMS / REVISIONS



**PAVEMENT & REHABILITATION,
NORTH I, 2024
PAPER MILL ROAD**

CONTRACT	ROAD NO.	N013
T202406101.02	DESIGNED BY:	J. CLEM
COUNTY	CHECKED BY:	R. KUSY
NEW CASTLE		

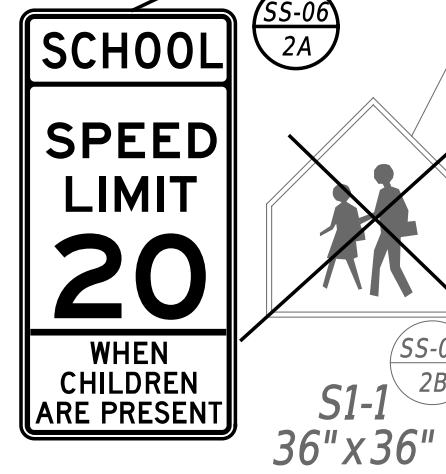
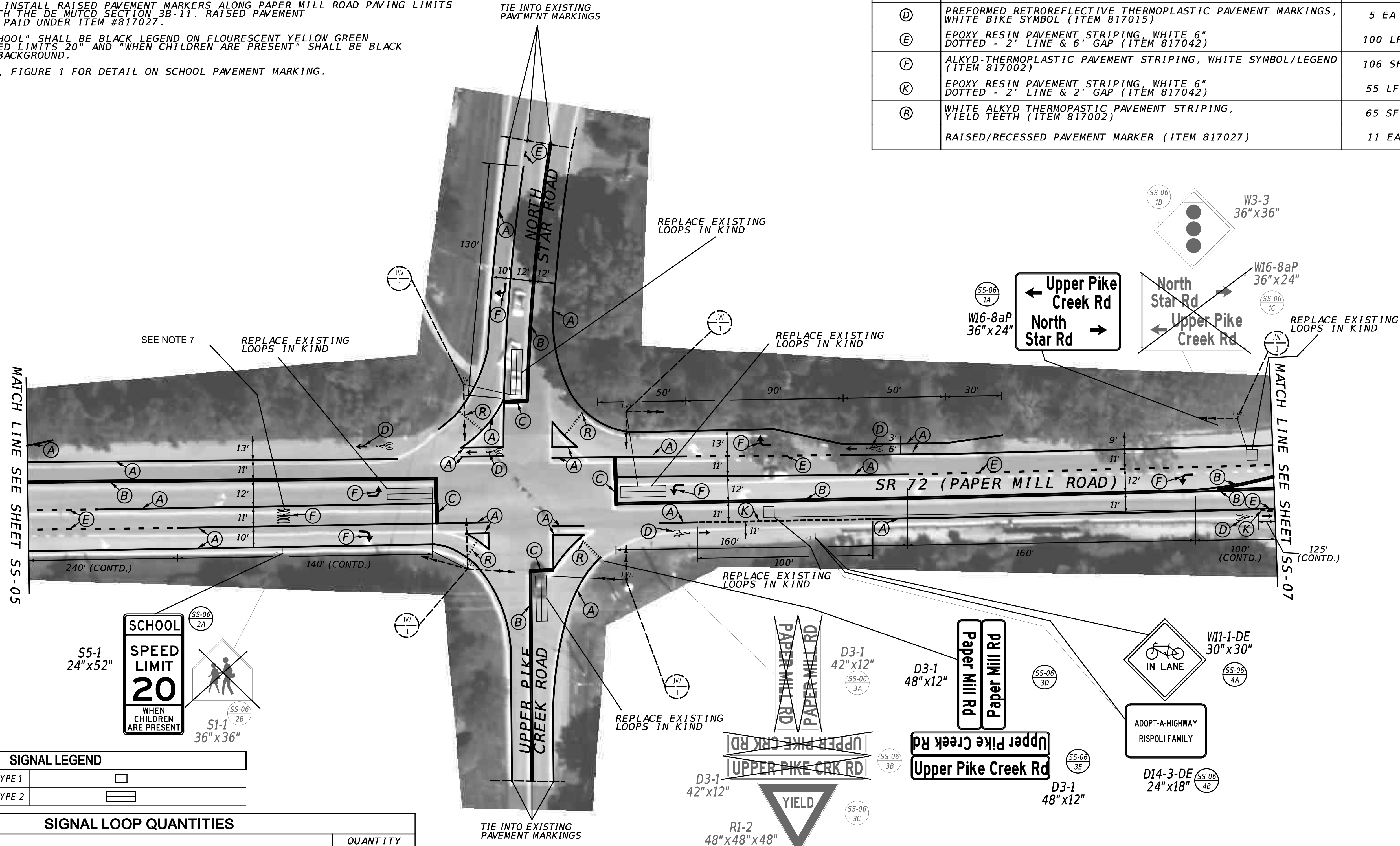
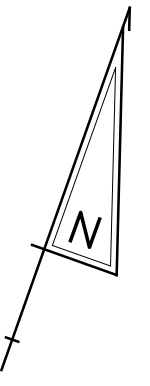
SIGNING AND STRIPING PLAN

SS-05
SECTION
JMT
SHEET NO.
9

NOTES:

- SEE PROJECT NOTES SHEET 3 NOTE 9 FOR ADDITIONAL INFORMATION CONCERNING SIGNAL LOOPS.
- CONTACT DELDOT TMC AT 302-659-4600 AT LEAST 10 DAYS PRIOR TO DISCONNECTING AND RECONNECTING TRAFFIC SIGNAL DETECTION LOOPS. COORDINATE WITH THE TMC TO PLACE THE SIGNAL IN RECALL MODE WHILE THE TRAFFIC SIGNAL DETECTION LOOPS ARE NOT OPERATIONAL.
- SPLICE TRAFFIC SIGNAL DETECTION LOOP WIRES IN THE EXISTING JUNCTION WELLS. DO NOT DISTURB HOME RUN CABLES.
- TRAFFIC SIGNAL CONDUITS AND JUNCTION WELLS ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY. FIELD VERIFY ACTUAL JUNCTION WELL LOCATIONS FOR SPLICING TRAFFIC SIGNAL DETECTION LOOPS.
- CONTRACTOR SHALL INSTALL RAISED PAVEMENT MARKERS ALONG PAPER MILL ROAD PAVING LIMITS IN ACCORDANCE WITH THE DE MUTCD SECTION 3B-11. RAISED PAVEMENT MARKERS SHALL BE PAID UNDER ITEM #817027.
- FOR SIGN 2A, "SCHOOL" SHALL BE BLACK LEGEND ON FLOURESCENT YELLOW GREEN BACKGROUND, "SPEED LIMITS 20" AND "WHEN CHILDREN ARE PRESENT" SHALL BE BLACK LEGEND ON WHITE BACKGROUND.
- REFER TO SHEET 3, FIGURE 1 FOR DETAIL ON SCHOOL PAVEMENT MARKING.

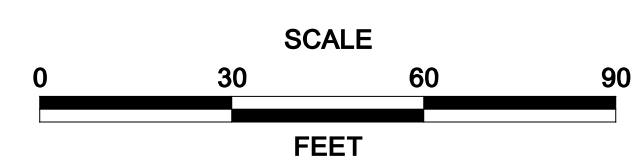
PAVEMENT MARKINGS LEGEND		
SYMBOL	DESCRIPTION	QUANTITY
(A)	EPOXY RESIN PAVEMENT STRIPING, WHITE 6" SOLID (ITEM 817042)	3,010 LF
(B)	EPOXY RESIN PAVEMENT STRIPING, YELLOW 6" SOLID DOUBLE (ITEM 817042)	1,965 LF
(C)	ALKYD-THERMOPLASTIC PAVEMENT STRIPING, WHITE 16" SOLID (ITEM 817002)	114 SF
(D)	PREFORMED RETROREFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS, WHITE BIKE SYMBOL (ITEM 817015)	5 EA
(E)	EPOXY RESIN PAVEMENT STRIPING, WHITE 6" DOTTED - 2' LINE & 6' GAP (ITEM 817042)	100 LF
(F)	ALKYD-THERMOPLASTIC PAVEMENT STRIPING, WHITE SYMBOL/LEGEND (ITEM 817002)	106 SF
(K)	EPOXY RESIN PAVEMENT STRIPING, WHITE 6" DOTTED - 2' LINE & 2' GAP (ITEM 817042)	55 LF
(R)	WHITE ALKYD THERMOPLASTIC PAVEMENT STRIPING, YIELD TEETH (ITEM 817002)	65 SF
	RAISED/RECESSED PAVEMENT MARKER (ITEM 817027)	11 EA



SIGNAL LEGEND	
PROPOSED LOOP DETECTOR, TYPE 1	
PROPOSED LOOP DETECTOR, TYPE 2	

SIGNAL LOOP QUANTITIES	
	QUANTITY
PROVIDE & INSTALL LOOP WIRE 1-CONDUCTOR #14 AWG ENCASED IN 1/4" FLEXIBLE TUBING IN A LOOP SAWCUT (ITEM 846001)	870 LF
PROVIDE & INSTALL A 1/2 INCH GALVANIZED RIGID METAL CONDUIT DETECTOR SLEEVE WITH LOOP WIRE (ITEM 846002)	80 LF

ADDENDUMS / REVISIONS

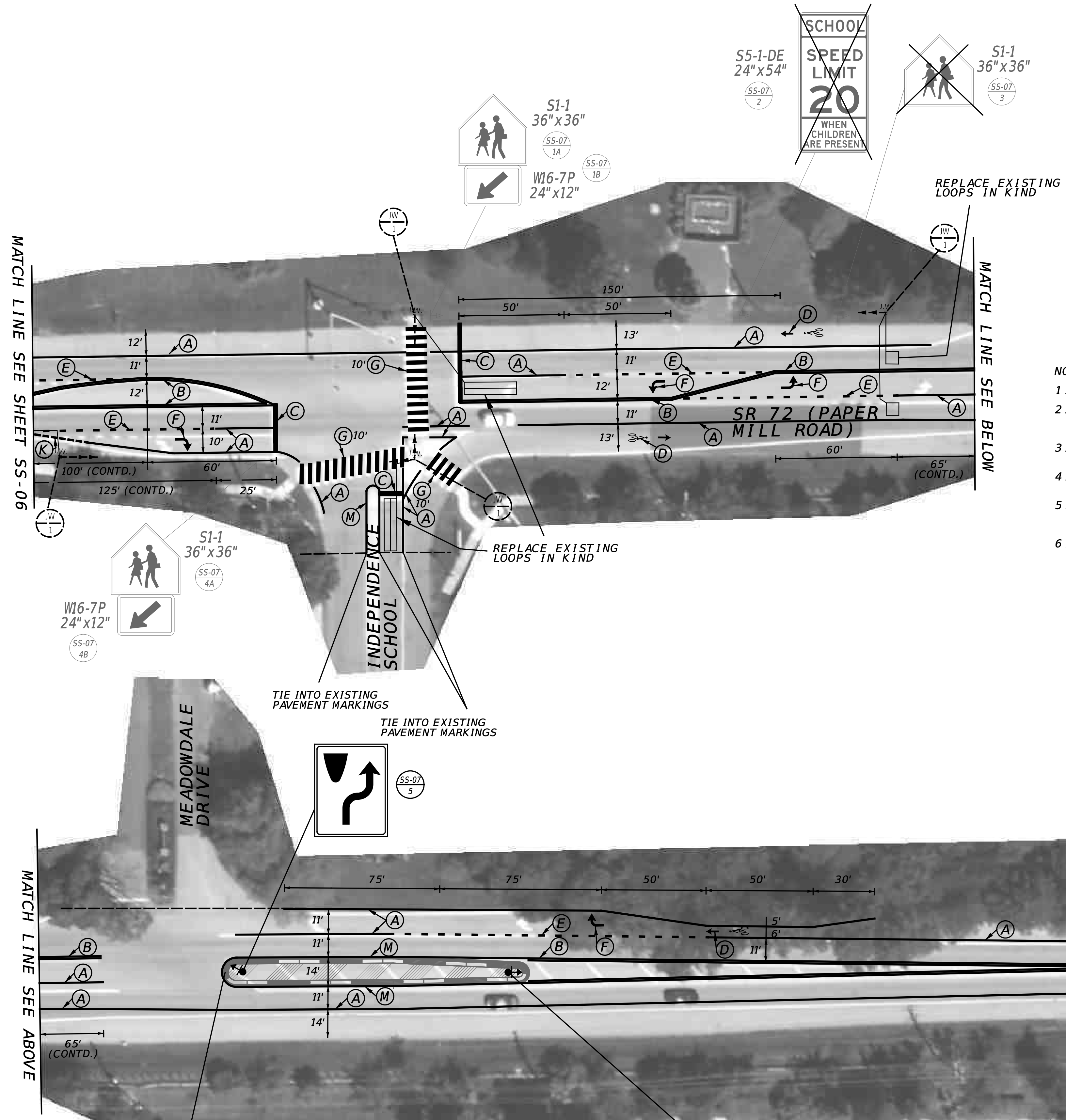


**PAVEMENT & REHABILITATION,
NORTH I, 2024
PAPER MILL ROAD**

CONTRACT	ROAD NO.	N013
T202406101.02	DESIGNED BY:	J. CLEM
COUNTY	CHECKED BY:	R. KUSY
NEW CASTLE		

SIGNING AND STRIPING PLAN

SS-06
SECTION
JMT
SHEET NO.
10



PAVEMENT MARKINGS LEGEND		
SYMBOL	DESCRIPTION	QUANTITY
(A)	EPOXY RESIN PAVEMENT STRIPING, WHITE 6" SOLID (ITEM 817042)	2,605 LF
(B)	EPOXY RESIN PAVEMENT STRIPING, YELLOW 6" SOLID DOUBLE (ITEM 817042)	2,800 LF
(C)	ALKYD-THERMOPLASTIC PAVEMENT STRIPING, WHITE 16" SOLID (ITEM 817002)	100 SF
(D)	PREFORMED RETROREFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS, WHITE BIKE SYMBOL (ITEM 817015)	3 EA
(E)	EPOXY RESIN PAVEMENT STRIPING, WHITE 6" DOTTED - 2' LINE & 6' GAP (ITEM 817042)	100 LF
(F)	ALKYD-THERMOPLASTIC PAVEMENT STRIPING, WHITE SYMBOL/LEGEND (ITEM 817002)	68 SF
(G)	ALKYD-THERMOPLASTIC PAVEMENT STRIPING, WHITE 24" SOLID (ITEM 817002)	662 SF
(K)	EPOXY RESIN PAVEMENT STRIPING, WHITE 6" DOTTED - 2' LINE & 2' GAP (ITEM 817042)	15 LF
(M)	EPOXY RESIN PAVEMENT STRIPING, YELLOW 6" SOLID (ITEM 817042)	405 LF
	RAISED/RECESSED PAVEMENT MARKER (ITEM 817027)	38 EA

- NOTES:
- SEE PROJECT NOTES SHEET 3 NOTE 9 FOR ADDITIONAL INFORMATION CONCERNING SIGNAL LOOPS.
 - TRAFFIC CONTRACTOR TO INSTALL TEMPORARY DETECTION PER TEMPORARY SIGNAL PLAN PRIOR TO DISCONNECTING LOOPS. TEMPORARY WAVETRONIX DETECTION TO REMAIN DEACTIVATED IN ULTIMATE CONDITION AFTER ULTIMATE LOOP DETECTORS ARE OPERATIONAL.
 - CONTACT DELDOT TMC 10 DAYS PRIOR TO DISCONNECTING AND RECONNECTING TRAFFIC SIGNAL DETECTION LOOPS AT 302-659-4600.
 - SPLICE TRAFFIC SIGNAL DETECTION LOOP WIRES IN THE EXISTING JUNCTION WELLS. DO NOT DISTURB HOME RUN CABLES.
 - TRAFFIC SIGNAL CONDUITS AND JUNCTION WELLS ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY. FIELD VERIFY ACTUAL JUNCTION WELL LOCATIONS FOR SPLICING TRAFFIC SIGNAL DETECTION LOOPS.
 - CONTRACTOR SHALL INSTALL RAISED PAVEMENT MARKERS ALONG PAPER MILL ROAD PAVING LIMITS IN ACCORDANCE WITH THE DE MUTCD SECTION 3B-11. RAISED PAVEMENT MARKERS SHALL BE PAID UNDER ITEM #817027.

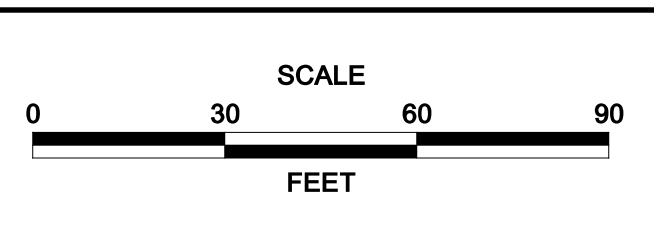
SIGNAL LEGEND	
PROPOSED LOOP DETECTOR, TYPE 1	
PROPOSED LOOP DETECTOR, TYPE 2	

SIGNAL LOOP QUANTITIES	
DESCRIPTION	QUANTITY
PROVIDE & INSTALL LOOP WIRE 1-CONDUCTOR #14 AWG ENCASED IN 1/4" FLEXIBLE TUBING IN A LOOP SAWCUT (ITEM 846001)	400 LF
PROVIDE & INSTALL A 1/2 INCH GALVANIZED RIGID METAL CONDUIT DETECTOR SLEEVE WITH LOOP WIRE (ITEM 846002)	25 LF



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ADDENDUMS / REVISIONS

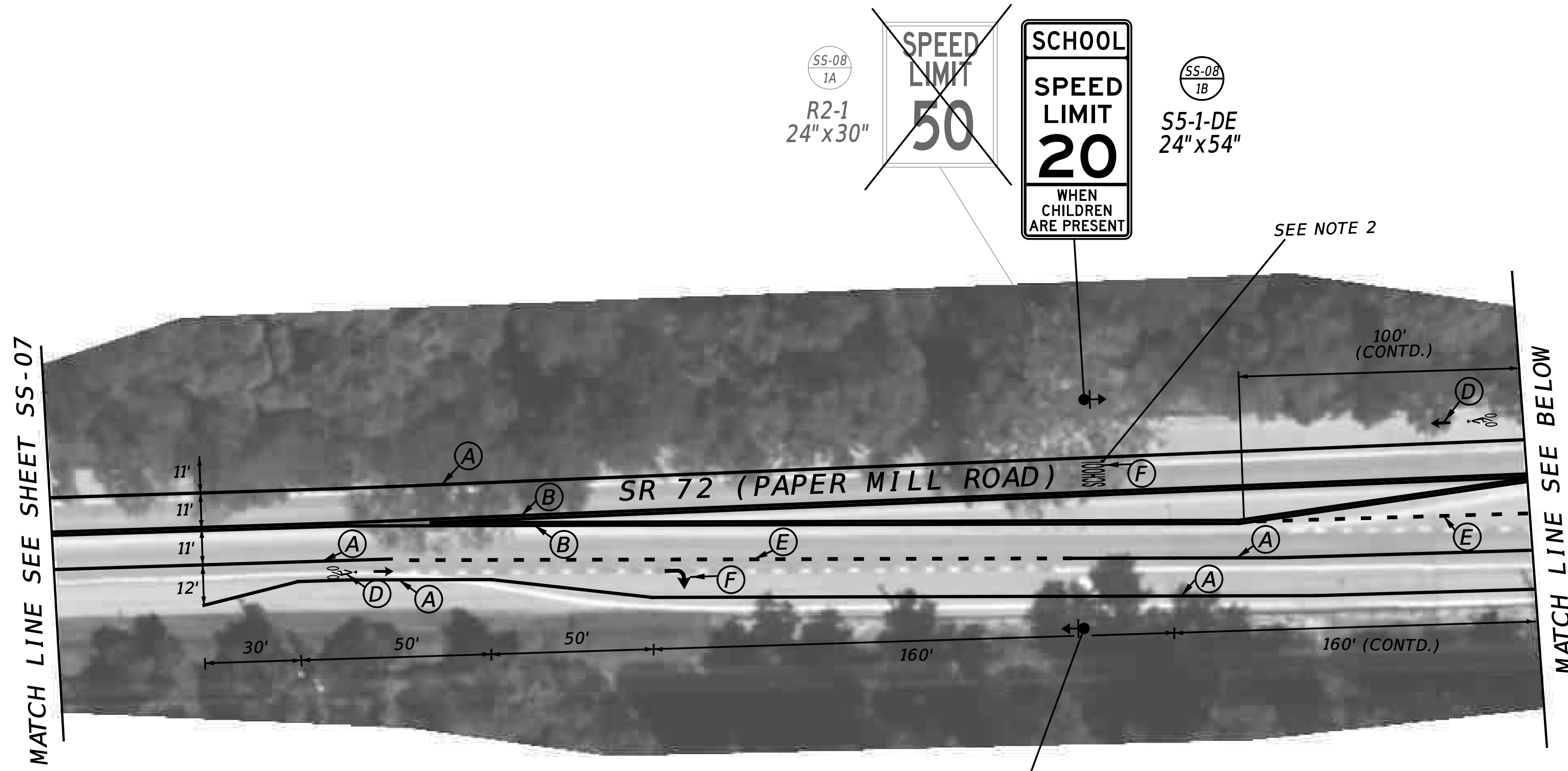
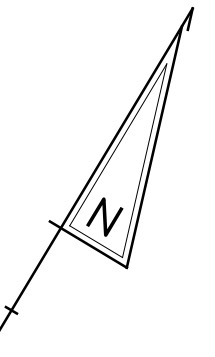


**PAVEMENT & REHABILITATION,
 NORTH I, 2024
 PAPER MILL ROAD**

CONTRACT	ROAD NO.	N013
T202406101.02	DESIGNED BY:	J. CLEM
COUNTY	CHECKED BY:	R. KUSY
NEW CASTLE		

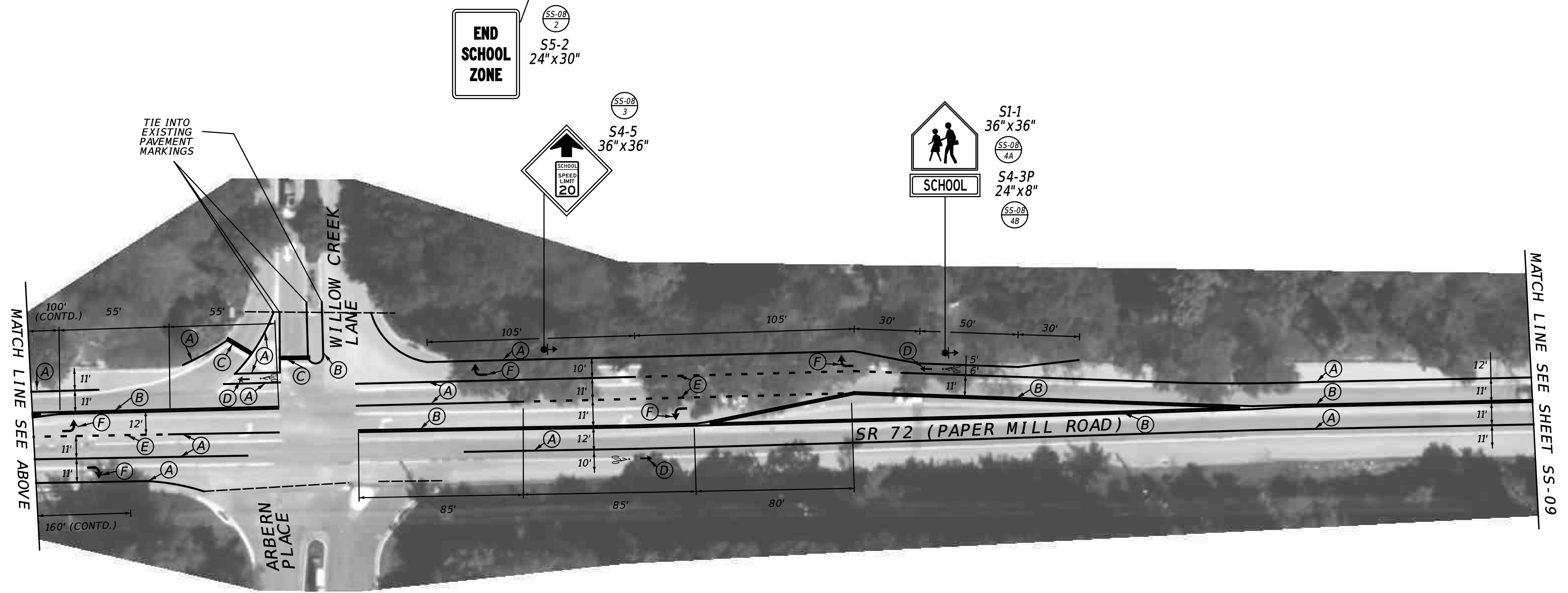
SIGNING AND STRIPING PLAN
 SECTION: JMT
 SHEET NO.: 11

SS-07
 SECTION: JMT
 SHEET NO.: 11



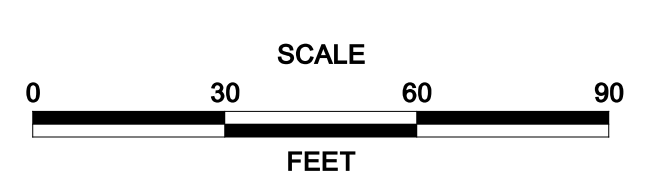
PAVEMENT MARKINGS LEGEND		
SYMBOL	DESCRIPTION	QUANTITY
(A)	EPOXY RESIN PAVEMENT STRIPING, WHITE 6" SOLID (ITEM 817042)	2,900 LF
(B)	EPOXY RESIN PAVEMENT STRIPING, YELLOW 6" SOLID DOUBLE (ITEM 817042)	4,090 LF
(C)	ALKYD-THERMOPLASTIC PAVEMENT STRIPING, WHITE 16" SOLID (ITEM 817002)	41 SF
(D)	PREFORMED RETROREFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS, WHITE BIKE SYMBOL (ITEM 817015)	5 EA
(E)	EPOXY RESIN PAVEMENT STRIPING, WHITE 6" DOTTED - 2' LINE & 6' GAP (ITEM 817042)	190 LF
(F)	ALKYD-THERMOPLASTIC PAVEMENT STRIPING, WHITE SYMBOL/LEGEND (ITEM 817002)	140 SF
	RAISED/RECESSED PAVEMENT MARKER (ITEM 817027)	37 EA

- NOTES:
- CONTRACTOR SHALL INSTALL RAISED PAVEMENT MARKERS ALONG PAPER MILL ROAD PAVING LIMITS IN ACCORDANCE WITH THE DE MUTCD SECTION 3B-11. RAISED PAVEMENT MARKERS SHALL BE PAID UNDER ITEM #817027.
 - REFER TO SHEET 3, FIGURE 1 FOR DETAIL ON SCHOOL PAVEMENT MARKING.



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ADDENDUMS / REVISIONS

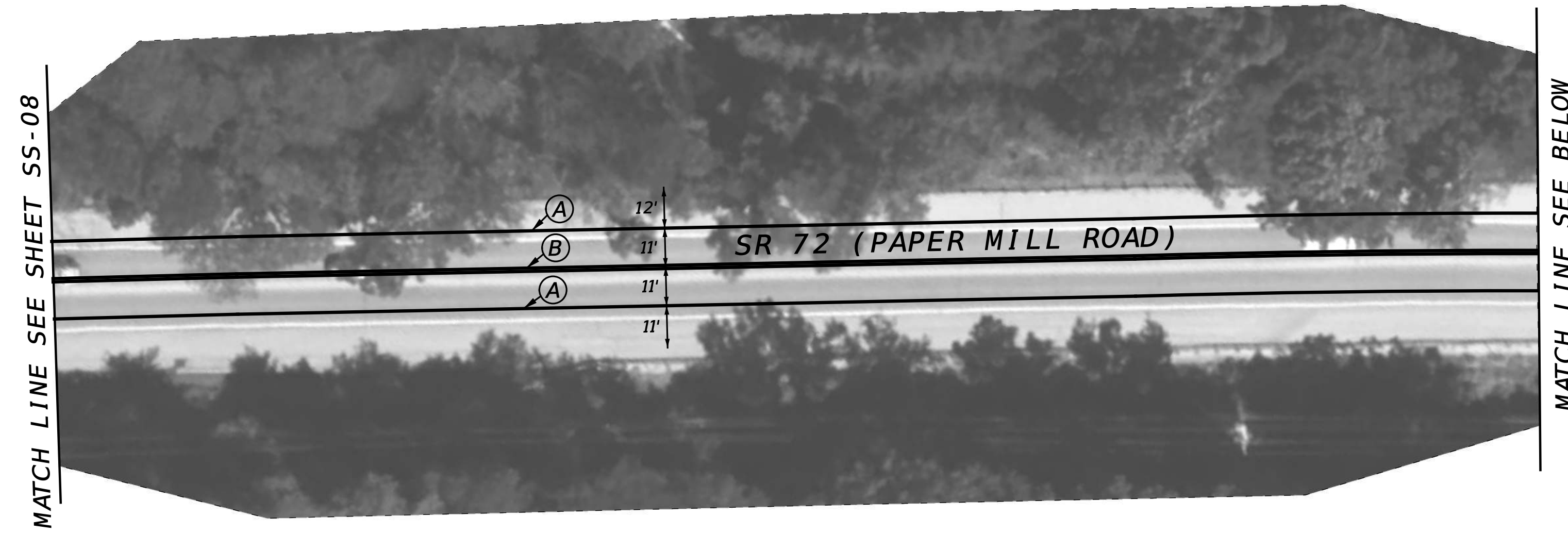
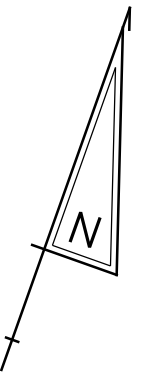


**PAVEMENT & REHABILITATION,
NORTH I, 2024
PAPER MILL ROAD**

CONTRACT	ROAD NO.	N013
T202406101.02	DESIGNED BY:	J. CLEM
COUNTY	CHECKED BY:	R. KUSY
NEW CASTLE		

SIGNING AND STRIPING PLAN

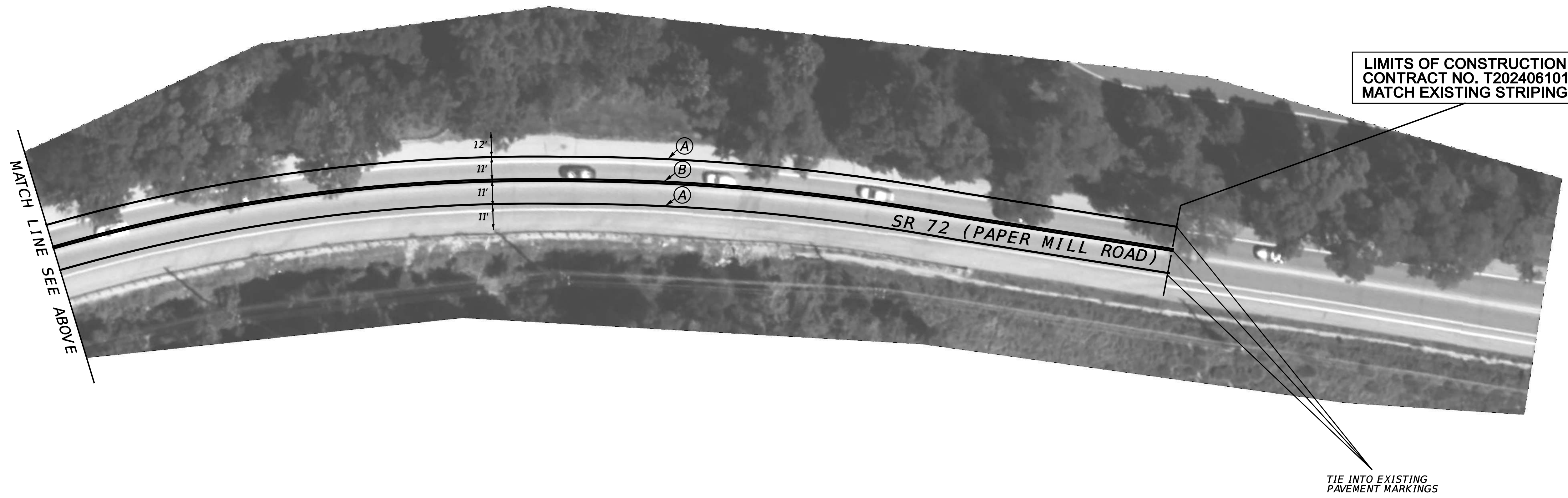
SS-08
SECTION
JMT
SHEET NO.
12



PAVEMENT MARKINGS LEGEND		
SYMBOL	DESCRIPTION	QUANTITY
Ⓐ	EPOXY RESIN PAVEMENT STRIPING, WHITE 6" SOLID (ITEM 817042)	2,270 LF
Ⓑ	EPOXY RESIN PAVEMENT STRIPING, YELLOW 6" SOLID DOUBLE (ITEM 817042)	2,270 LF
	RAISED/RECESSED PAVEMENT MARKER (ITEM 817027)	24 EA

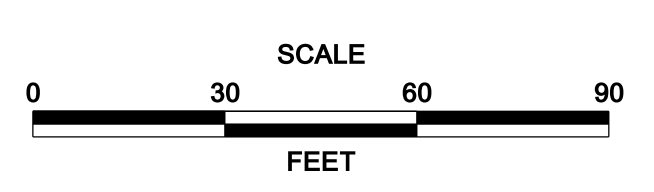
NOTES:

- CONTRACTOR SHALL INSTALL RAISED PAVEMENT MARKERS ALONG PAPER MILL ROAD PAVING LIMITS IN ACCORDANCE WITH THE DE MUTCD SECTION 3B-11. RAISED PAVEMENT MARKERS SHALL BE PAID UNDER ITEM #817027.



STATES
TIMES
FILES

ADDENDUMS / REVISIONS



**PAVEMENT & REHABILITATION,
NORTH I, 2024
PAPER MILL ROAD**

CONTRACT	ROAD NO.	N013
T202406101.02	DESIGNED BY:	J. CLEM
COUNTY	CHECKED BY:	R. KUSY
NEW CASTLE		

SIGNING AND STRIPING PLAN	SECTION
	JMT
	SHEET NO.
	13

SS-09

PERMANENT SIGN SCHEDULE - SR 72/PAPER MILL ROAD

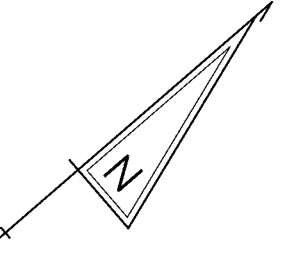
SHEET NO.	PLAN IDENTIFIER	SIGN DESIGNATION	QTY.	DESCRIPTION	SIGN WIDTH (IN)	SIGN HEIGHT (IN)	X13 / ITEM 818001 SUPPLY OF FLAT SHEET ALUMINUM, TYPE IV, RETROREFLECTIVE SHEETING (SF)	X14 / ITEM 818003 SUPPLY OF FLAT SHEET ALUMINUM, TYPE XI, RETROREFLECTIVE SHEETING (SF)	X15 / ITEM 819512 SIGN POST REFLECTIVE PANEL (EA)	ITEM 819018 INSTALLATION OR REMOVAL OF TRAFFIC SIGN(S) ON SINGLE POST (EACH)			ITEM 819019 INSTALLATION OR REMOVAL OF TRAFFIC SIGN(S) ON MULTIPLE SIGN POSTS (SF)			POST INSTALLATION TYPE	X16 / ITEM 819011 12' SIGNPOSTS W/ BASEPOSTS & HARDWARE (EACH)	X17 / ITEM 819023 15' SIGNPOSTS W/ BASEPOSTS & HARDWARE (EACH)	ITEM 819016 4" HOLE, 0-6" (EACH)	ITEM 819017 4" HOLE, >6" (EACH)	SIGN DISPOSITION	X14A FLAT SHEET ALUMINUM SIGN PANELS (TYPE XI SHEETING) - SIGNS ON POLES, SPAN WIRES, MAST ARMS (TRAFFIC SUPPLY)	ITEM 822500 INSTALL OVERHEAD SIGN (SF) ON SIGNAL POLES TRAFFIC CONTRACTOR ITEM EXCEPT FOR PILOT PROJECTS	ITEM 823003 REMOVAL OF SIGN ON SPAN WIRE OR MAST ARM (EA) TRAFFIC CONTRACTOR ITEM EXCEPT FOR PILOT PROJECTS	ITEM 823001 INSTALLATION OF SIGN ON SPAN WIRE OR MAST ARM (SF) TRAFFIC CONTRACTOR ITEM EXCEPT FOR PILOT PROJECTS	REMARKS	
										SIGN DISPOSITION	REMOVE	INSTALL	SIGN DISPOSITION	REMOVE	INSTALL												
SS-01	1	W11-1(30)	1	BICYCLE (Symbol) - 36x30	30	30				REMOVE	1																
SS-01	2A	W3-3(36)	1	SIGNAL AHEAD (Symbol) - 36x36	36	36	9.0					NEW															
SS-01	2B	W16-8aP	1	ADVANCE STREET NAME (4 - line plaque)	36	30	7.5					ADD TO ASSEMBLY		1													(Left Arrow) "Comer"/"Ketch Rd"/"Polly"/"Drummond" (Right Arrow) "Hill Rd" (Highway Font C. 4", Normal Kerning)
SS-01	2C	W23-2P-DE(30)	1	NEW TRAFFIC PATTERN (plaque) - 30x24	30	24		5.0				ADD TO ASSEMBLY															
SS-02	1	W11-1(30)	1	BICYCLE (Symbol) - 36x30	30	30				REMOVE	1																
SS-03	1	R1-2(48)	1	YIELD	48	48		6.9				RENEW	1	1						SOIL	1						RENEW IN PROPOSED LOCATION
SS-03	2	R1-2(48)	1	YIELD	48	48		6.9				RENEW	1	1						SOIL	1						RENEW IN PROPOSED LOCATION
SS-03	3	W11-1(30)	1	BICYCLE (Symbol) - 36x30	30	30				REMOVE	1																
SS-03	4A	D3-1(18)	2	STREET NAME (1 Line) Posted speed > 40 MPH	48	18	12.0					RENEW	2	2													"Comer/Ketch Rd" (Highway Font B. 6"/4", Narrow Kerning)
SS-03	4B	D3-1(18)	2	STREET NAME (1 Line) Posted speed > 40 MPH	42	18	10.5					RENEW	2	2						SOIL	1						"Paper Mill Rd" (Highway Font C 6"/4", Narrow Kerning)
SS-03	4C	R1-2(48)	1	YIELD	48	48		6.9				RENEW	1	1													
SS-03	4D	W4-5P(18)	1	NO MERGE AREA (plaque) - 18x24	18	24	3.0					ADD TO ASSEMBLY															
SS-03	5A	D3-1(18)	2	STREET NAME (1 Line) Posted speed > 40 MPH	48	18	12.0					RENEW	2	2													"Polly Drummond Hill Rd" (Highway Font B. 6"/4", Narrow Kerning)
SS-03	5B	D3-1(18)	2	STREET NAME (1 Line) Posted speed > 40 MPH	42	18	10.5					RENEW	2	2						SOIL	1						"Paper Mill Rd" (Highway Font C 6"/4", Narrow Kerning)
SS-03	5C	R1-2(48)	1	YIELD	48	48		6.9				RENEW	1	1													
SS-03	5D	W4-5P(18)	1	NO MERGE AREA (plaque) - 18x24	18	24	3.0					ADD TO ASSEMBLY															
SS-04	1A	W3-3(36)	1	SIGNAL AHEAD (Symbol) - 36x36	36	36	9.0					NEW															
SS-04	1B	W16-8aP	1	ADVANCE STREET NAME (4 - line plaque)	36	30	7.5					ADD TO ASSEMBLY			1					SOIL	1						(Left Arrow) "Polly"/"Drummond"/"Hill Rd"/"Comer" (Right Arrow) "Ketch Rd" (Highway Font C. 4", Narrow Kerning)
SS-04	1C	W23-2P-DE(30)	1	NEW TRAFFIC PATTERN (plaque) - 30x24	30	24		5.0				ADD TO ASSEMBLY															
SS-04	2A	W3-3(36)	1	SIGNAL AHEAD (Symbol) - 36x36	36	36						REMOVE	1														
SS-04	2B	W16-8aP	1	ADVANCE STREET NAME (4 - line plaque)	36	24						REMOVE	1														(Left Arrow) "Polly"/"Drummond"/"Hill Rd"/"Comer" (Right Arrow) "Ketch Rd"
SS-04	3A	R1-1(36)	1	STOP	36	36		7.5	7.5			NEW		1						SOIL	1						
SS-04	3B	R3-5_R	1	MANDATORY MOVEMENT LANE CONTROL - Right	30	36	7.5					ADD TO ASSEMBLY															
SS-04	4	R4-7(24)	1	KEEP RIGHT (Symbol) - 24x30	24	30						REMOVE	1														
SS-04	5	R4-7(24)	1	KEEP RIGHT (Symbol) - 24x30	24	30	5.0					NEW		1						NEW CONCRETE	1						
SS-04	6	R3-2(36)	1	LEFT TURN PROHIBITION (Symbol) - 36x36	36	36	9.0					NEW		1						SOIL	1						
SS-04	7	R4-7(24)	1	KEEP RIGHT (Symbol) - 24x30	24	30	5.0					NEW		1						NEW CONCRETE	1						
SS-05	1A	S1-1(36)	1	SCHOOL SIGN (Symbol) - 36x36	36	36		9.0				NEW		1						SOIL	1						
SS-05	1B	S4-3P(24)	1	SCHOOL - 24x8	24	8		1.3				ADD TO ASSEMBLY															
SS-05	2	S4-5(36)	1	REDUCED SPEED - SCHOOL ZONE AHEAD (Symbol) - 36x36	36	36		9.0				NEW		1						SOIL	1						
SS-06	1A	W16-8aP	1	ADVANCE STREET NAME (4 - line plaque)	36	24	6.0					ADD TO ASSEMBLY			1												(Left Arrow) "Upper Pike"/"Creek Rd"/"North" (Right Arrow) "Star Rd" (Highway Font C. 4", Narrow Kerning)
SS-06	1B	W3-3(36)	1	SIGNAL AHEAD (Symbol) - 36x36	36	36						REMAIN															
SS-06	1C	W16-8aP	1	ADVANCE STREET NAME (4 - line plaque)	36	24						REMOVE	1														"North" (Right Arrow) "Star Rd"/"Left Arrow" "Upper Pike"/"Creek Rd" 20 MPH
SS-06	2A	S5-1-DE(24)	1	SCHOOL SPEED LIMIT XX WHEN CHILDREN ARE PRESENT - 24x54	24	54		9.0				ADD TO ASSEMBLY															
SS-06	2B	S1-1(36)	1	SCHOOL SIGN (Symbol) - 36x36	36	36						REMOVE	1														
SS-06	3A	D3-1(12)	1	STREET NAME (1 Line) Posted speed < 40 MPH	36	12						REMOVE	1														"PAPER MILL RD"
SS-06	3B	D3-1(12)	2	STREET NAME (1 Line) Posted speed < 40 MPH	42	12						REMOVE	2														"UPPER PIKE CRK RD"
SS-06	3C	R1-2(48)	1	YIELD	48	48						REMAIN															
SS-06	3D	D3-1(18)	2	STREET NAME (1 Line) Posted speed > 40 MPH	48	18	12.0					NEW			2					SOIL							"Paper Mill Rd" (Highway Font C 8"/6", 0.5" Kerning)
SS-06	3E	D3-1(18)	2	STREET NAME (1 Line) Posted speed > 40 MPH	48	18	12.0					NEW			2												"Upper Pike Creek Rd" (Highway Font B. 6"/6", 0.5" Kerning)
SS-06	4A	W11-1-DE(30)	2	BICYCLE (Symbol) IN LANE - 30x30	30	30	12.5					NEW		2													
SS-06	4B	D14-3-DE	1	ADOPT A HIGHWAY	24	18	3.0					RENEW	1	1													
SS-07	1A	S1-1(36)	1	SCHOOL SIGN (Symbol) - 36x36	36	36						REMAIN															"RISPOLI FAMILY"
SS-07	1B	W16-7P_L(24)	1	LEFT DOWNWARD DIAGONAL ARROW (plaque) - 24x12	24	12						REMAIN															
SS-07	2	S5-1-DE(24)	1	SCHOOL SPEED LIMIT XX WHEN CHILDREN ARE PRESENT - 24x54	24	54						REMOVE	1														20 MPH
SS-07	3	S1-1(36)	1	SCHOOL SIGN (Symbol) - 36x36	36	36						REMOVE	1														
SS-07	4A	S1-1(36)	1	SCHOOL SIGN (Symbol) - 36x36	36	36						REMAIN															
SS-07	4B	W16-7P_L(24)	1	LEFT DOWNWARD DIAGONAL ARROW (plaque) - 24x12	24	12						REMAIN															
SS-07	5	R4-7(24)	1	KEEP RIGHT (Symbol) - 24x30	24	30	5.0					NEW			1					NEW CONCRETE	1						
SS-07	6	R4-7(24)	1	KEEP RIGHT (Symbol) - 24x30	24	30	5.0					NEW			1					NEW CONCRETE	1						
SS-07	7	S5-2(24)	1	END SCHOOL ZONE - 24x30	24	30						REMOVE	1														
SS-08	1A	R2-1-50(24)	1	SPEED LIMIT (50 MPH - 24x30)	24	30						REMOVE	1														
SS-08	1B	S5-1-DE(24)	1	SCHOOL SPEED LIMIT XX WHEN CHILDREN ARE PRESENT - 24x54	24	54		9.0				NEW			1					SOIL	1						
SS-08	2	S5-2(24)	1	END SCHOOL ZONE - 24x30	24	30	5.0					NEW			1					SOIL	1						20 MPH
SS-08	3	S4-5(36)	1	REDUCED SPEED - SCHOOL ZONE AHEAD (Symbol) - 36x36	36	36		9.0				NEW			1					SOIL	1						
SS-08	4A	S1-1(36)	1	SCHOOL SIGN (Symbol) - 36x36	36	36		1.3				NEW			1					SOIL	1						
SS-08	4B	S4-3P(24)	1	SCHOOL - 24x8	24	8						ADD TO ASSEMBLY															
PAGE TOTALS							171	102	0			28	44														

ADDENDUMS / REVISIONS

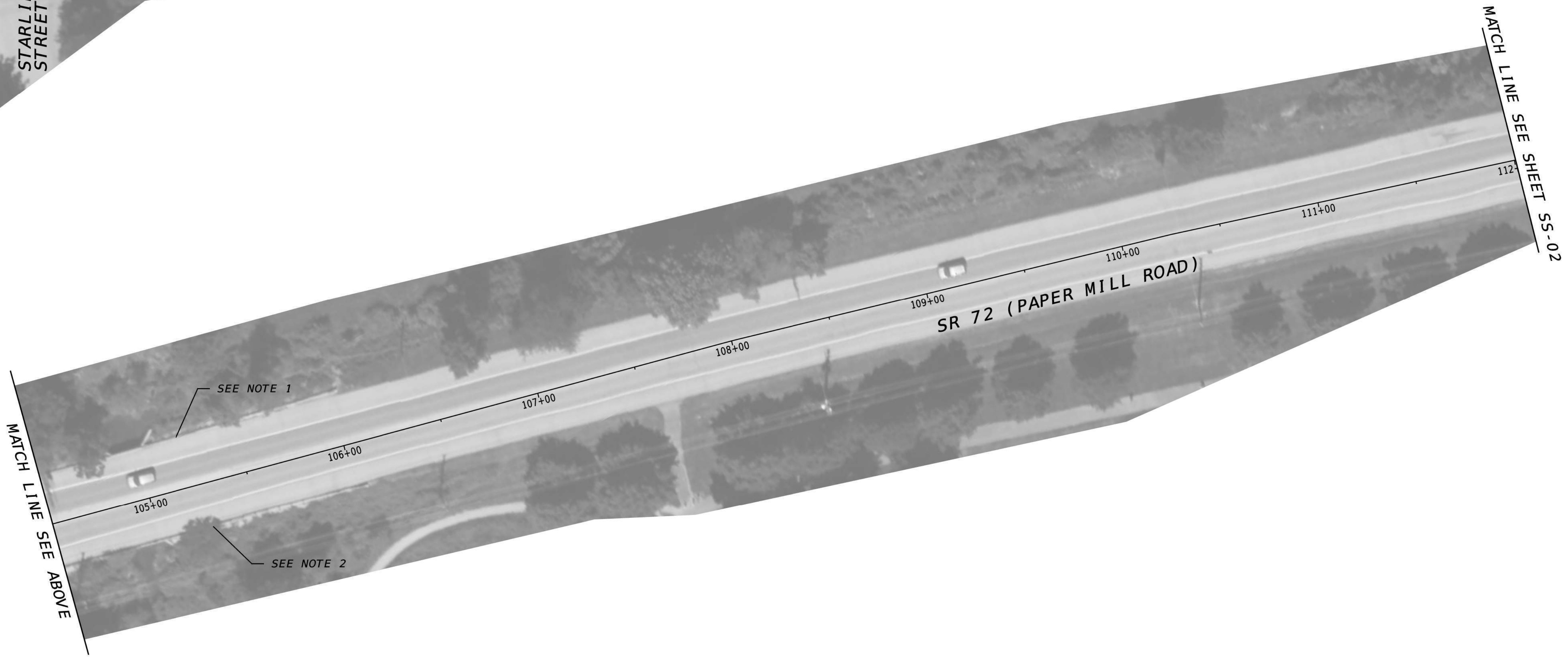
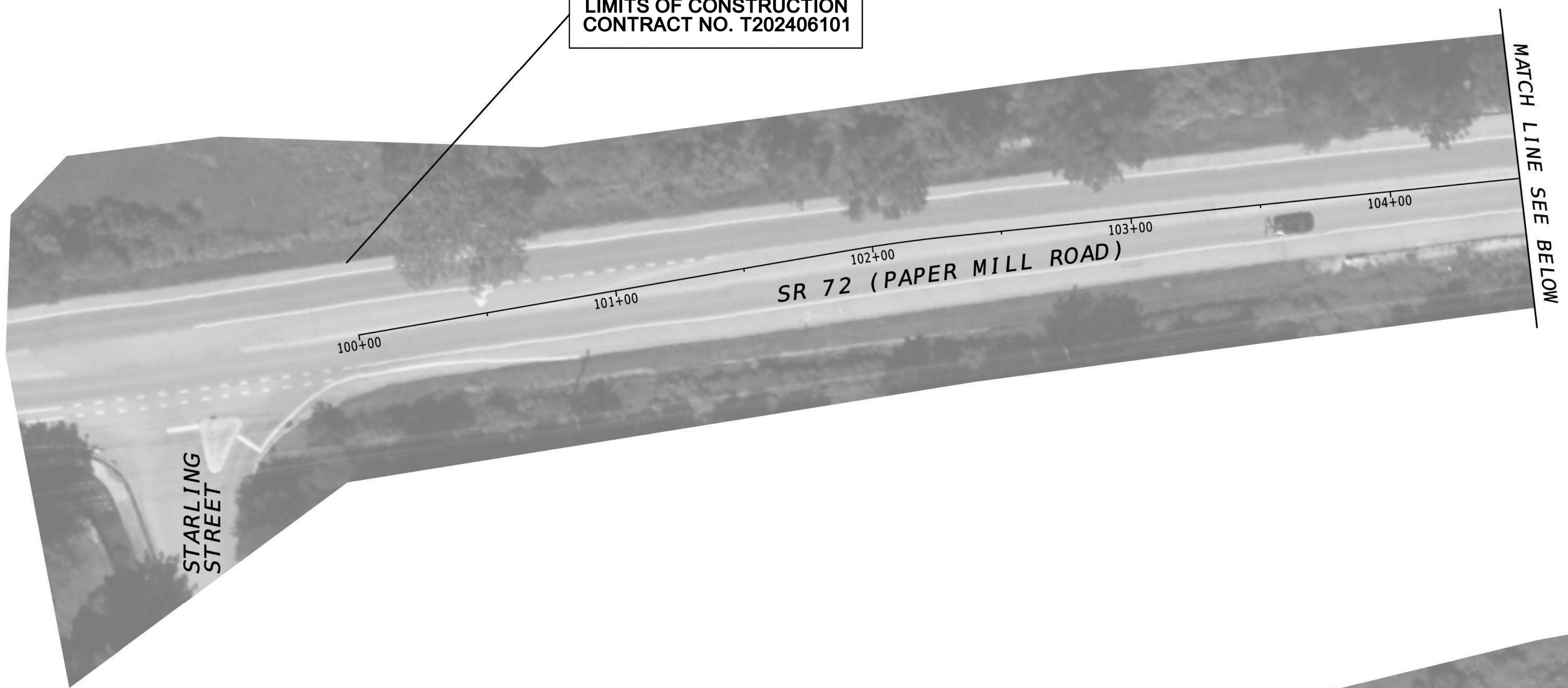
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NOTES

1. EXISTING GUARDRAIL HEIGHT IS LESS THAN 31". EXISTING CHANGES IN GRADE PROHIBIT THE UPGRADE OF THE GUARDRAIL TO BE COMPLIANT WITH MASH STANDARD AND DELDOT'S STANDARD GUARDRAIL DETAILS. REGRADING OF THE AREA TO IMPROVE THE GUARDRAIL SYSTEM IS OUTSIDE THE SCOPE OF THE PAVEMENT & REHABILITATION PROJECT.
2. EXISTING GUARDRAIL HEIGHT IS LESS THAN 31". THE GUARDRAIL OVER THE CULVERT AND THE EXISTING SHOULDER WIDTH PROHIBITS THE UPGRADE OF THE GUARDRAIL TO BE COMPLIANT WITH MASH STANDARD AND DELDOT'S STANDARD GUARDRAIL DETAILS. EXPANDING THE WIDTH OF THE ROADWAY TO IMPROVE THE GUARDRAIL SYSTEM IS OUTSIDE THE SCOPE OF THE PAVEMENT & REHABILITATION PROJECT.

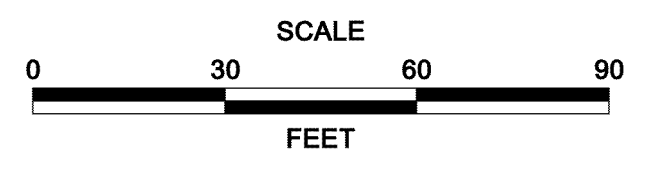


**LIMITS OF CONSTRUCTION
CONTRACT NO. T202406101**



7-AUG-2024 17:04 p:\jmt\pwr\benley.com\jmt-pw-01\Documents\Projects\2019\19-00797-002\JMT\General\2D Drawing\GR Files\GR - Paper Mill Road.dgn

ADDENDUMS / REVISIONS



**PAVEMENT & REHABILITATION
NORTH I, 2024
PAPER MILL ROAD**

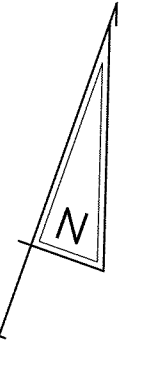
CONTRACT	ROAD NO.	N013
T202406101.02	DESIGNED BY:	M. TAPLIN
COUNTY	CHECKED BY:	B. DOUGHERTY
NEW CASTLE		

GUARDRAIL PLANS

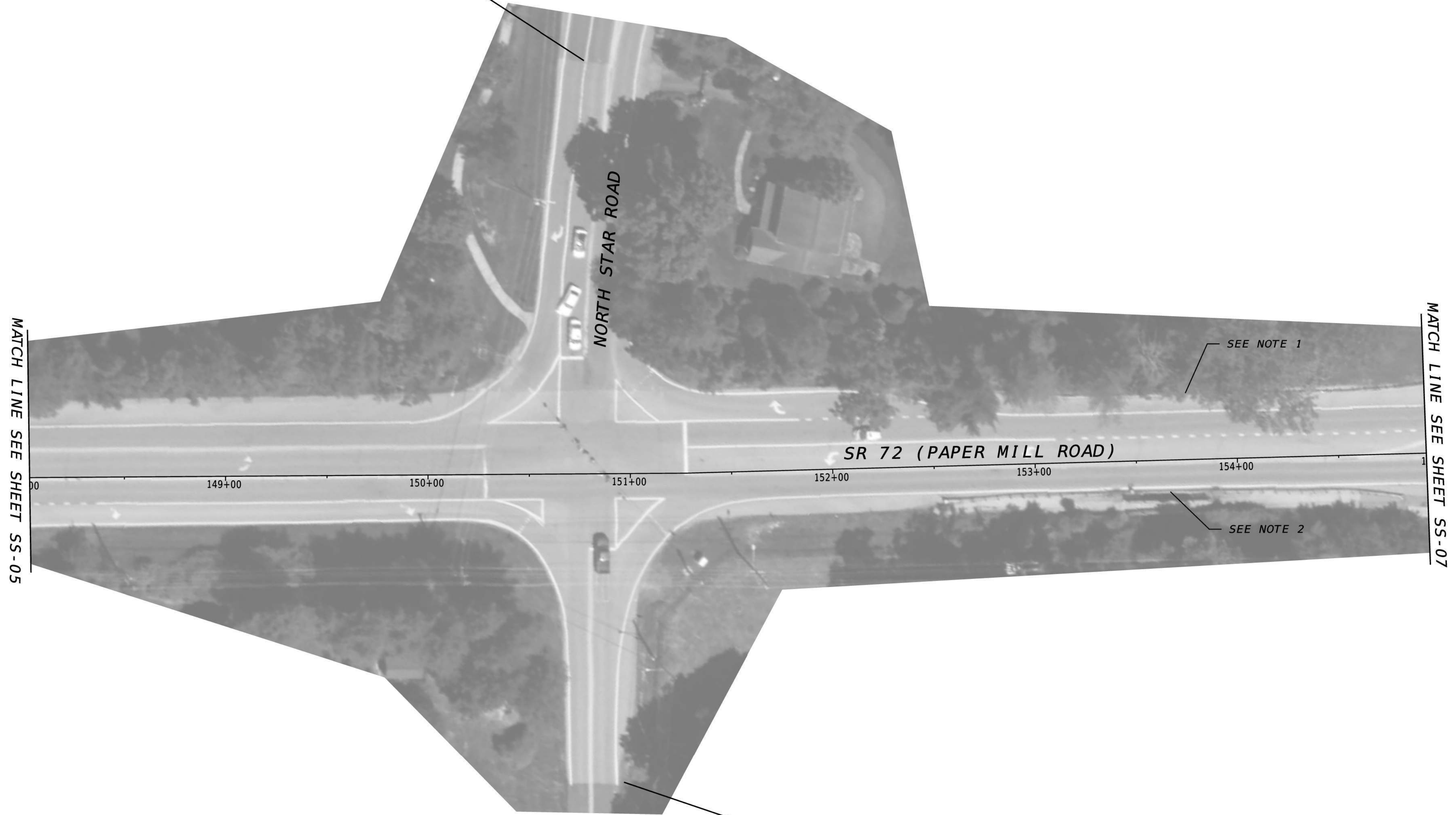
GR-01
SECTION
JMT
SHEET NO.
15

NOTES

1. EXISTING GUARDRAIL HEIGHT IS LESS THAN 31". EXISTING CHANGES IN GRADE PROHIBIT THE UPGRADE OF THE GUARDRAIL TO BE COMPLIANT WITH MASH STANDARD AND DELDOT'S STANDARD GUARDRAIL DETAILS. REGRADING OF THE AREA TO IMPROVE THE GUARDRAIL SYSTEM IS OUTSIDE THE SCOPE OF THE PAVEMENT & REHABILITATION PROJECT.
2. EXISTING GUARDRAIL HEIGHT IS LESS THAN 31". THE GUARDRAIL OVER THE CULVERT AND THE EXISTING SHOULDER WIDTH PROHIBITS THE UPGRADE OF THE GUARDRAIL TO BE COMPLIANT WITH MASH STANDARD AND DELDOT'S STANDARD GUARDRAIL DETAILS. EXPANDING THE WIDTH OF THE ROADWAY TO IMPROVE THE GUARDRAIL SYSTEM IS OUTSIDE THE SCOPE OF THE PAVEMENT & REHABILITATION PROJECT.



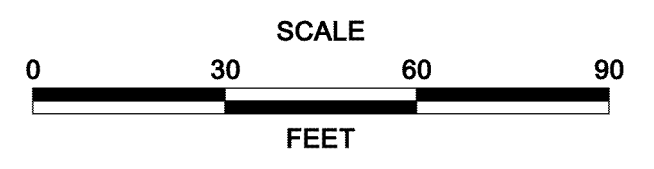
LIMITS OF CONSTRUCTION
CONTRACT NO. T202406101



LIMITS OF CONSTRUCTION
CONTRACT NO. T202406101

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ADDENDUMS / REVISIONS

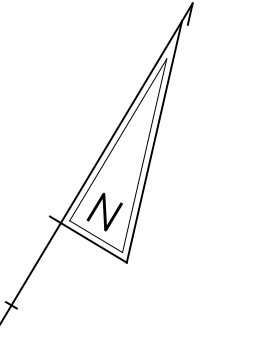


**PAVEMENT & REHABILITATION
NORTH I, 2024
PAPER MILL ROAD**

CONTRACT	ROAD NO.	N013
T202406101.02	DESIGNED BY:	M. TAPLIN
COUNTY	CHECKED BY:	B. DOUGHERTY
NEW CASTLE		

GUARDRAIL PLANS

GR-02
SECTION
JMT
SHEET NO.
16



GUARDRAIL SCHEDULE				
NO.	ITEM DESCRIPTION / TYPE	BEGIN STA.	OFFSET	LENGTH
101	END TREATMENT, ATTENUATOR TYPE 1	168+50.82	-32.00	50.00
102	GALVANIZED STEEL BEAM GUARDRAIL, TYPE 1-31	169+02.57	-30.00	250.00
103	END TREATMENT, ATTENUATOR TYPE 1	171+52.61	-30.00	50.00
104	END TREATMENT, ATTENUATOR TYPE 1	168+65.47	32.00	50.00
105	GALVANIZED STEEL BEAM GUARDRAIL, TYPE 1-31	169+17.24	32.00	237.50
106	END TREATMENT, ATTENUATOR TYPE 1	171+54.47	32.00	50.00
107	END TREATMENT, ATTENUATOR TYPE 1	175+86.82	-32.00	50.00
108	GALVANIZED STEEL BEAM GUARDRAIL, TYPE 1-31, STEEP SLOPE	176+38.46	-30.00	850.00

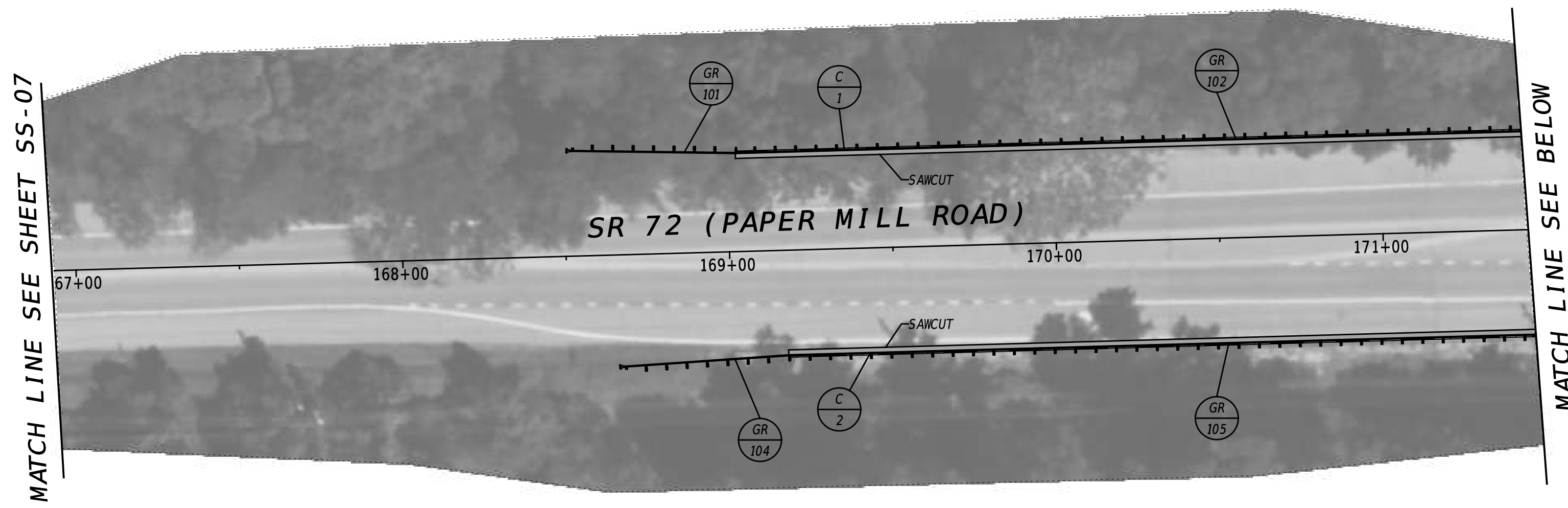
NOTES

- SEE STANDARD DETAIL B-1, TYPE 1-31 GUARDRAIL APPLICATION.
- SEE STANDARD DETAIL B-2, GUARDRAIL END TREATMENT ATTENUATOR TYPE 1-31.

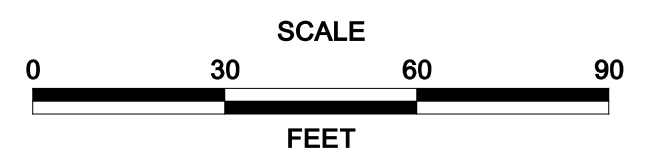
CURB SCHEDULE		
NO.	ITEM DESCRIPTION / TYPE	LENGTH
1	PCC CURB, TYPE 1-4	241'
2	PCC CURB, TYPE 1-4	229'
3	PCC CURB, TYPE 1-4	11'
4	PCC CURB, TYPE 1-4	11'
5	PCC CURB, TYPE 1-4	256'

NOTES

- GUARDRAIL AND CURB ARE TO BE PLACED ACCORDING TO DELDOT STANDARD DETAIL B-1.
- PROVIDE 18" HOT MIX PATCH ADJACENT TO PROPOSED CURB.



ADDENDUMS / REVISIONS



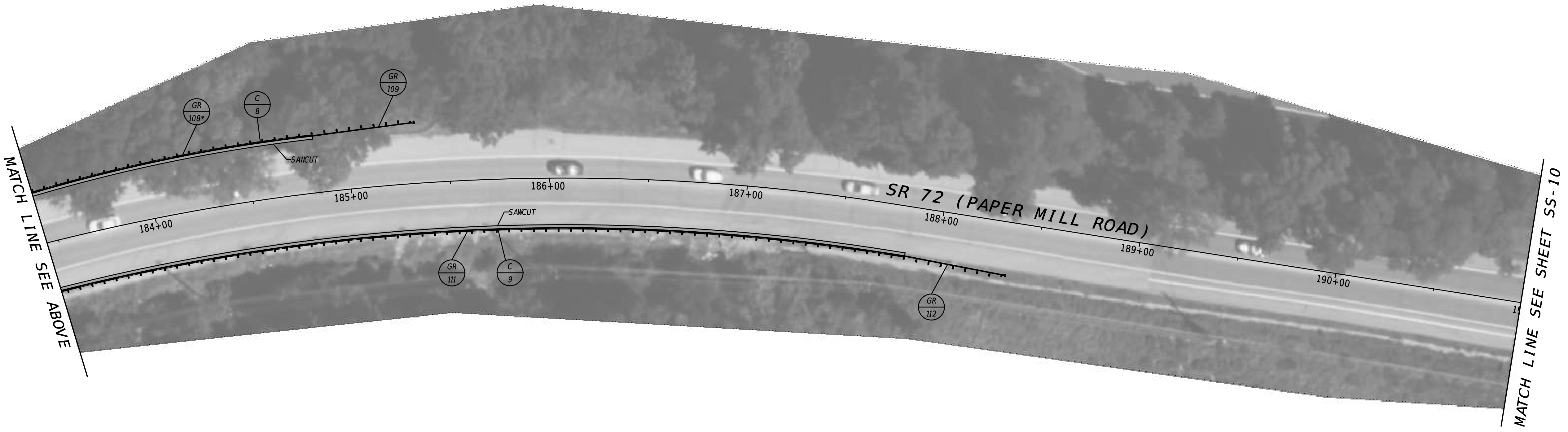
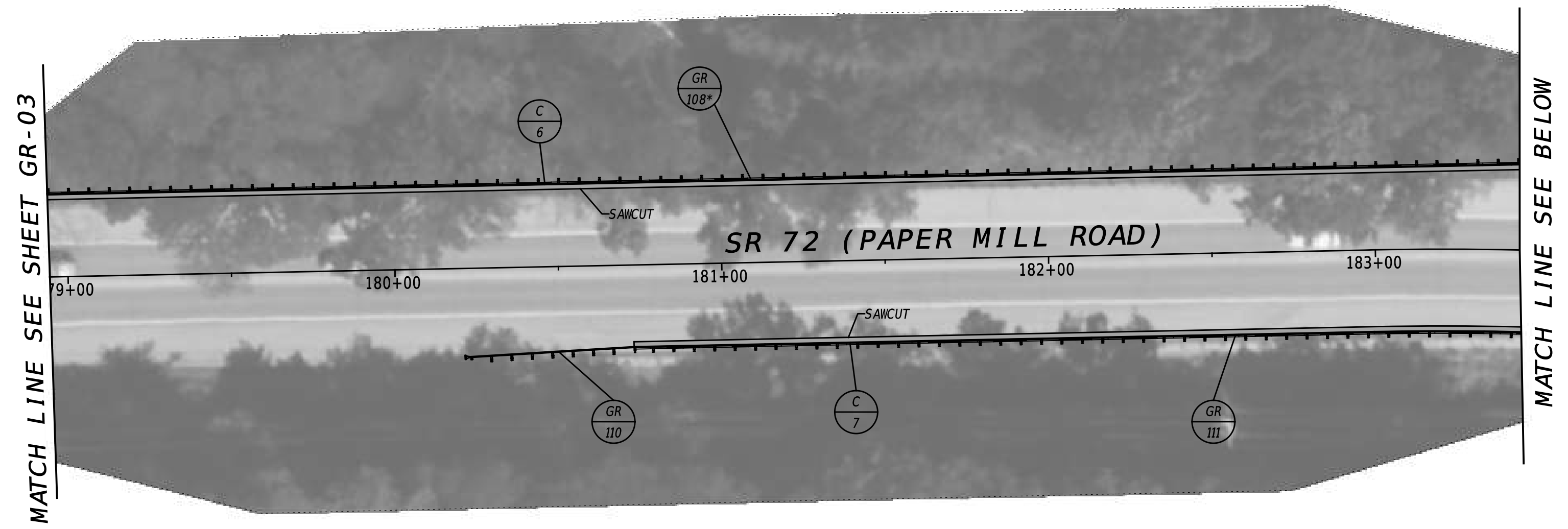
**PAVEMENT & REHABILITATION
NORTH I, 2024
PAPER MILL ROAD**

CONTRACT	ROAD NO.	N013
T202406101.02	DESIGNED BY:	M. TAPLIN
COUNTY	CHECKED BY:	B. DOUGHERTY
NEW CASTLE		

GUARDRAIL PLANS

GR-03
SECTION
JMT
SHEET NO.
17

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GUARDRAIL SCHEDULE				
NO.	ITEM DESCRIPTION / TYPE	BEGIN STA.	OFFSET	LENGTH
108	GALVANIZED STEEL BEAM GUARDRAIL, TYPE 1-31	176+38.46	-32.00	*
109	END TREATMENT, ATTENUATOR TYPE 1	184+83.60	-28.00	50.00
110	END TREATMENT, ATTENUATOR TYPE 1	180+20.92	25.00	50.00
111	GALVANIZED STEEL BEAM GUARDRAIL, TYPE 1-31	180+72.69	25.00	700.00
112	END TREATMENT, ATTENUATOR TYPE 1	187+83.87	25.00	50.00

*QUANTITY SHOWN ON SHEET GR-03

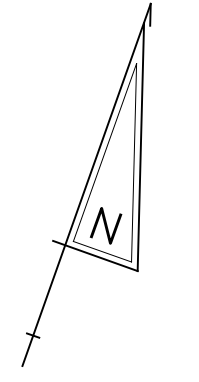
NOTES

- SEE STANDARD DETAIL B-1, TYPE 1-31 GUARDRAIL APPLICATION.
- SEE STANDARD DETAIL B-2, GUARDRAIL END TREATMENT ATTENUATOR TYPE 1-31.

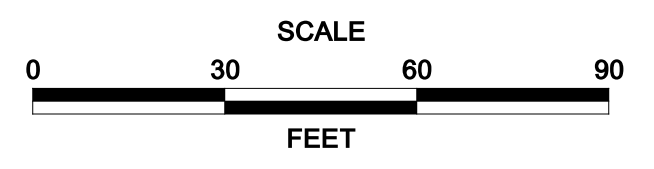
CURB SCHEDULE		
NO.	ITEM DESCRIPTION / TYPE	LENGTH
6	PCC CURB, TYPE 1-4	451'
7	PCC CURB, TYPE 1-4	272'
8	PCC CURB, TYPE 1-4	145'
9	PCC CURB, TYPE 1-4	429'

NOTES

- GUARDRAIL AND CURB ARE TO BE PLACED ACCORDING TO DELDOT STANDARD DETAIL B-1.
- PROVIDE 18" HOT MIX PATCH ADJACENT TO PROPOSED CURB.



ADDENDUMS / REVISIONS



**PAVEMENT & REHABILITATION
NORTH I, 2024
PAPER MILL ROAD**

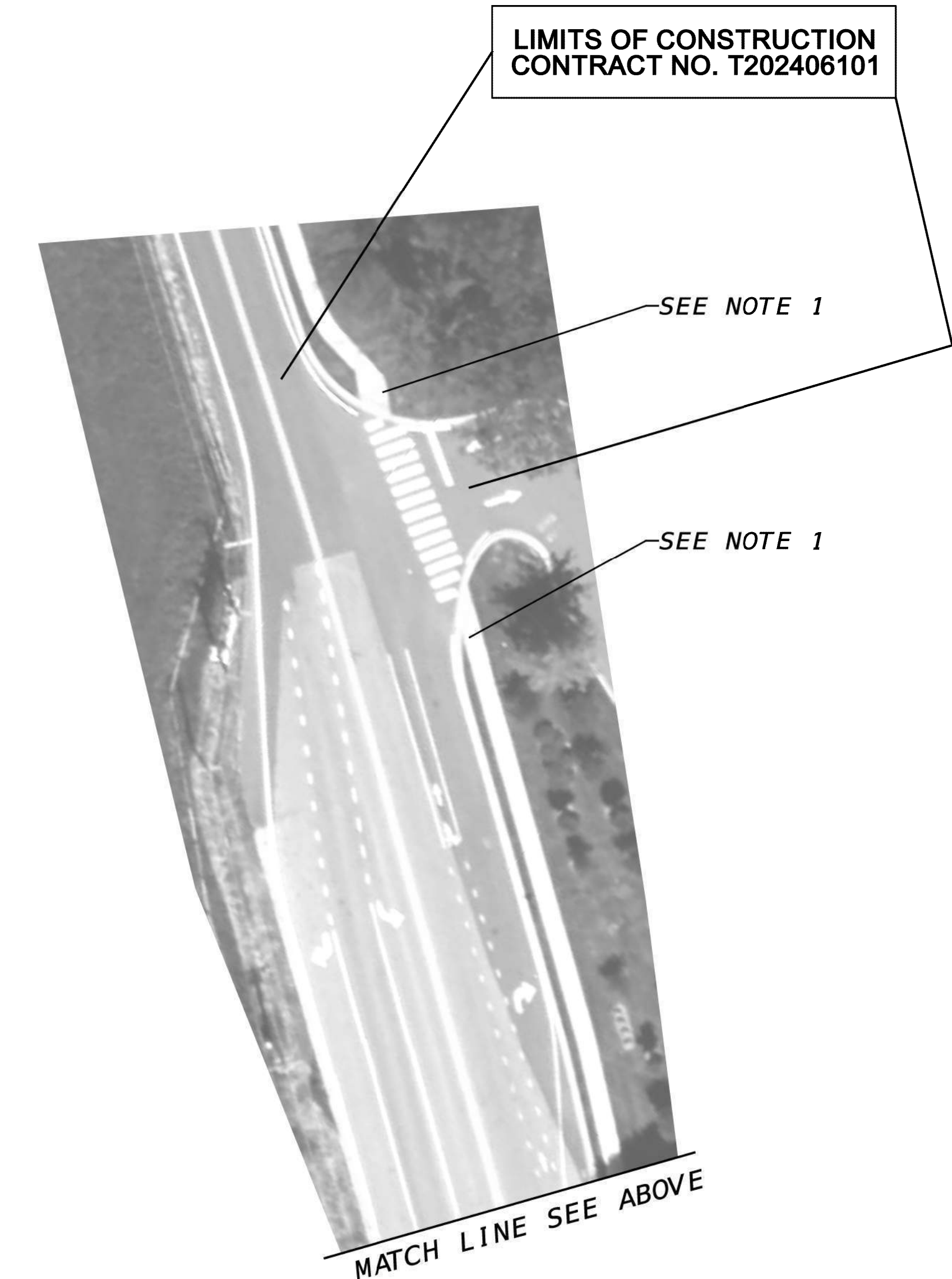
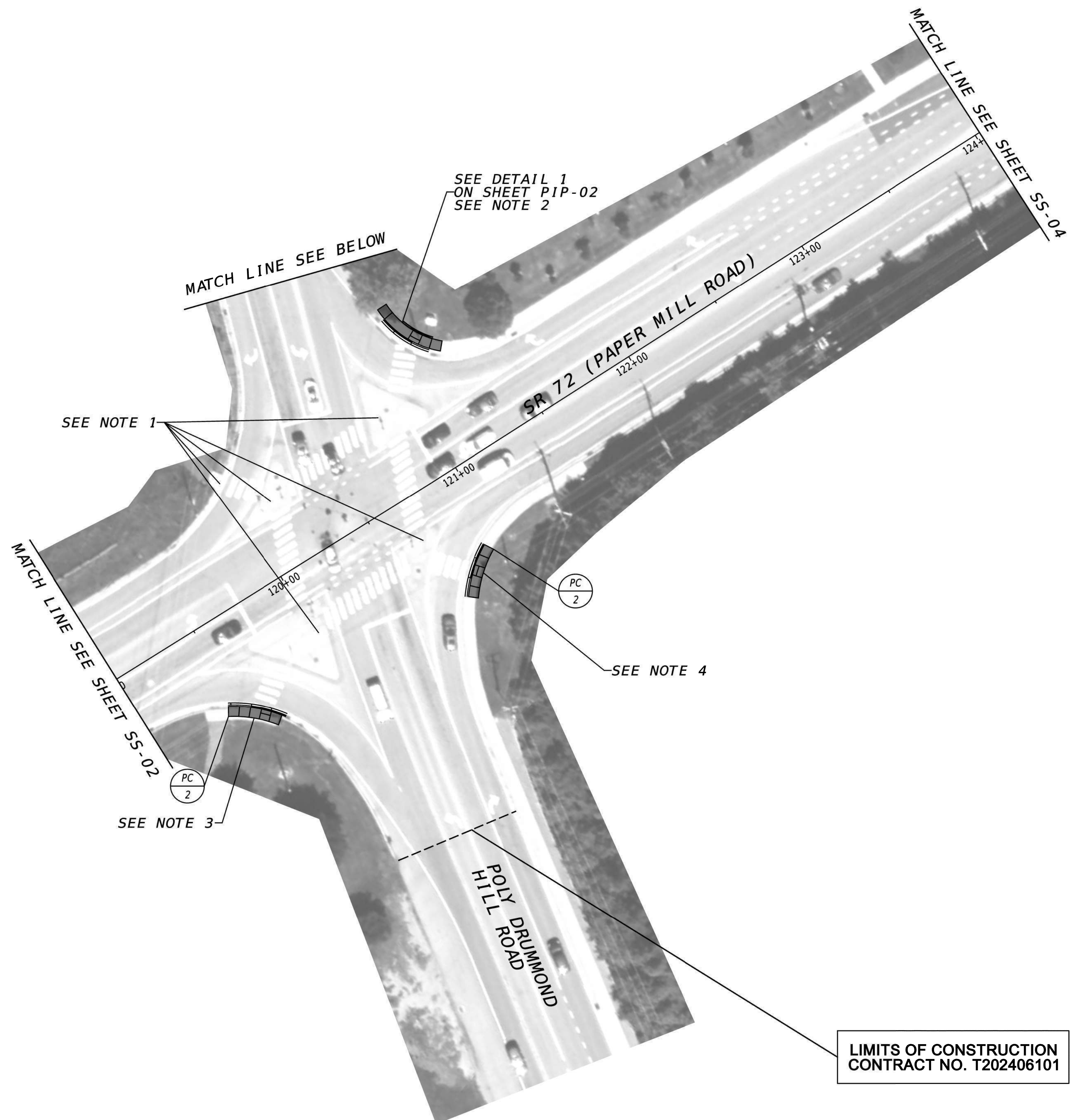
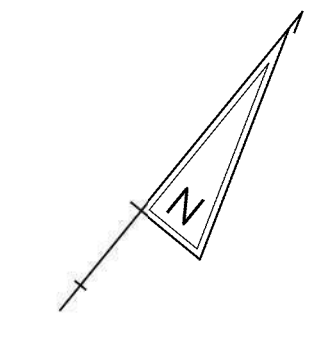
CONTRACT	ROAD NO.	N013
T202406101.02	DESIGNED BY:	M. TAPLIN
COUNTY	CHECKED BY:	B. DOUGHERTY
NEW CASTLE		

GUARDRAIL PLANS

GR-04
SECTION
JMT
SHEET NO.
18

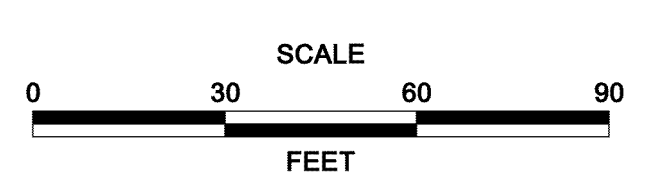
NOTES

1. THE PEDESTRIAN CONNECTION WAS FOUND TO BE COMPLIANT WITH THE PEDESTRIAN ACCESS STANDARDS.
2. THE PEDESTRIAN CONNECTION WAS FOUND TO BE NON-COMPLIANT DUE TO RUNNING SLOPES (8.9%) WITHIN THE RAMP SEGMENT EXCEEDING THAN THE ALLOWABLE 8.3%. THE RAMP SEGMENT DOES NOT MEET THE CHASING GRADES CRITERIA.
3. THE PEDESTRIAN CONNECTION WAS FOUND TO BE NON-COMPLIANT DUE TO CROSS SLOPES WITHIN THE TURNING SPACE (4.3%) EXCEEDING 2% ALLOWABLE.
4. THE PEDESTRIAN CONNECTION WAS FOUND TO BE NON-COMPLIANT DUE TO RUNNING SLOPES (8.7%) WITHIN THE RAMP SEGMENT EXCEEDING THE ALLOWABLE 8.3%. THE RAMP SEGMENT DOES NOT MEET THE CHASING GRADES CRITERIA.



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ADDENDUMS / REVISIONS

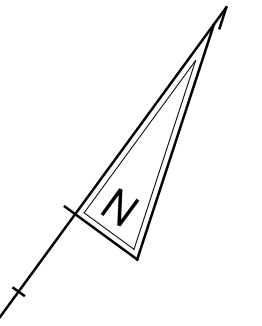
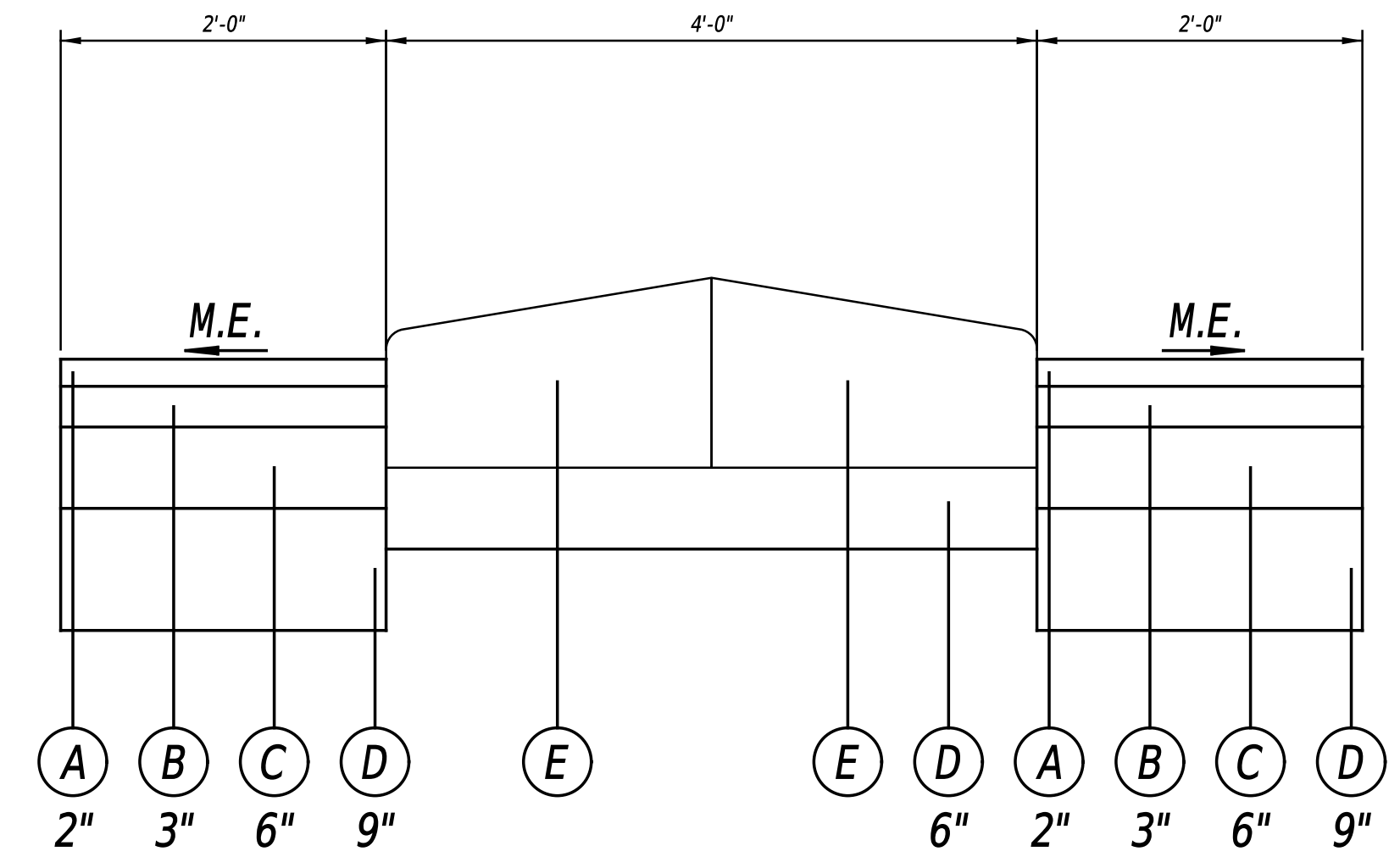
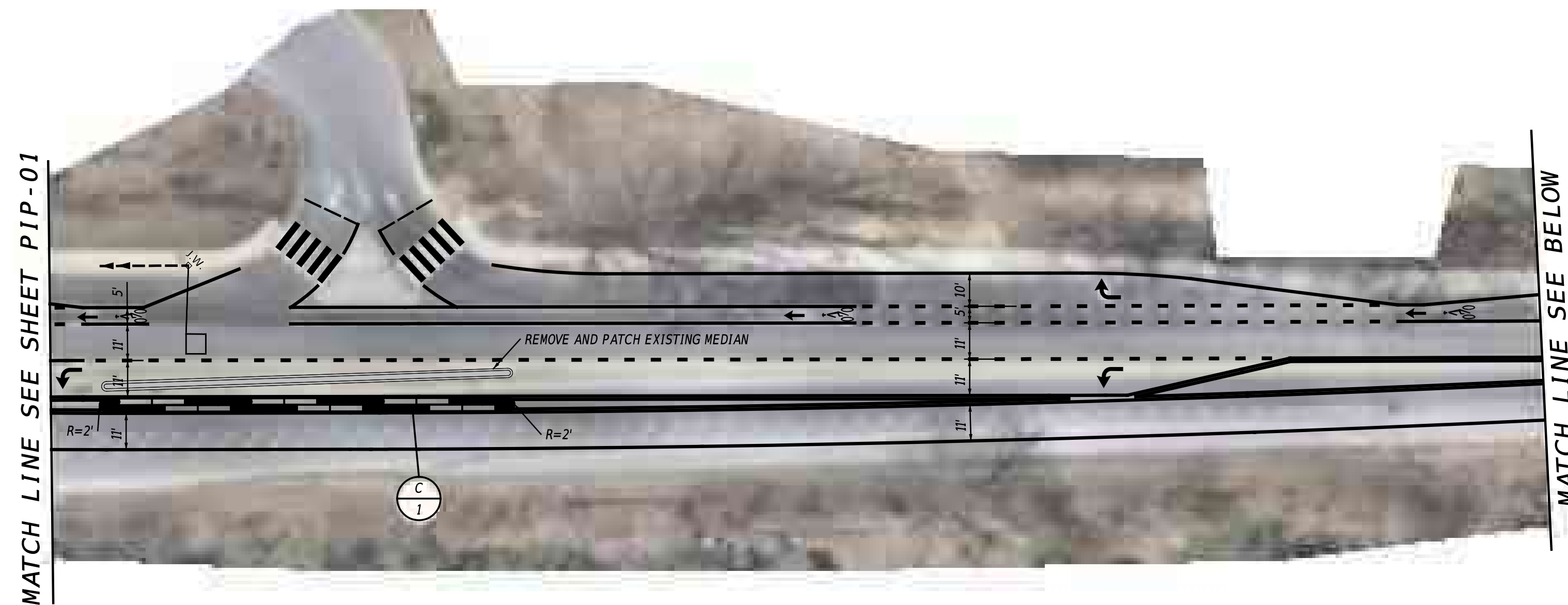


**PAVEMENT & REHABILITATION
NORTH I, 2024
PAPER MILL ROAD**

CONTRACT	ROAD NO.	S013
T202406101.02	DESIGNED BY:	M. TAPLIN
COUNTY	CHECKED BY:	B. DOUGHERTY
NEW CASTLE		

**PEDESTRIAN
IMPROVEMENT
PLAN**

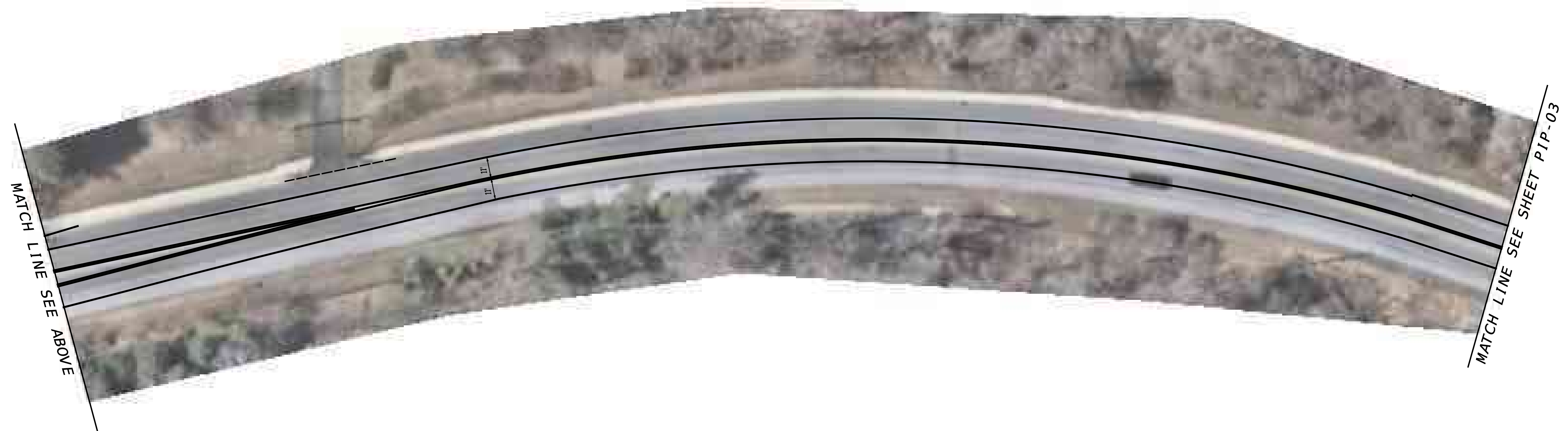
PIP-01
SECTION
JMT
SHEET NO.
19



- (A) ITEM 401005 - SUPERPAVE, TYPE C, PG 64-22 (CARBONATE STONE)
- (B) ITEM 401014 - SUPERPAVE, TYPE B, PG 64-22
- (C) ITEM 401021 - SUPERPAVE, TYPE BCBC, PG 64-22
- (D) ITEM 301001 - GABC
- (E) ITEM 701014 - PCC CURB, TYPE 2

MEDIAN ISLAND CURB SECTION

STATION 124+25 TO STATION 125+52

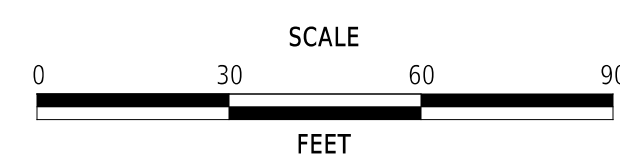


CURB SCHEDULE

NO.	ITEM DESCRIPTION / TYPE	LENGTH
1	PCC CURB, TYPE 2	256'

NOTES:
1. SEE STANDARD CONSTRUCTION DETAIL C-1 FOR MEDIAN NOSE TREATMENT

ADDENDA / REVISIONS



PAVEMENT & REHABILITATION,
FY 2024
PAPER MILL ROAD

CONTRACT	ROAD NO.	N013
T202406101.02	DESIGNED BY:	J. IORIO
COUNTY	CHECKED BY:	B. DOUGHERTY
NEW CASTLE		

PEDESTRIAN
IMPROVEMENT
PLAN

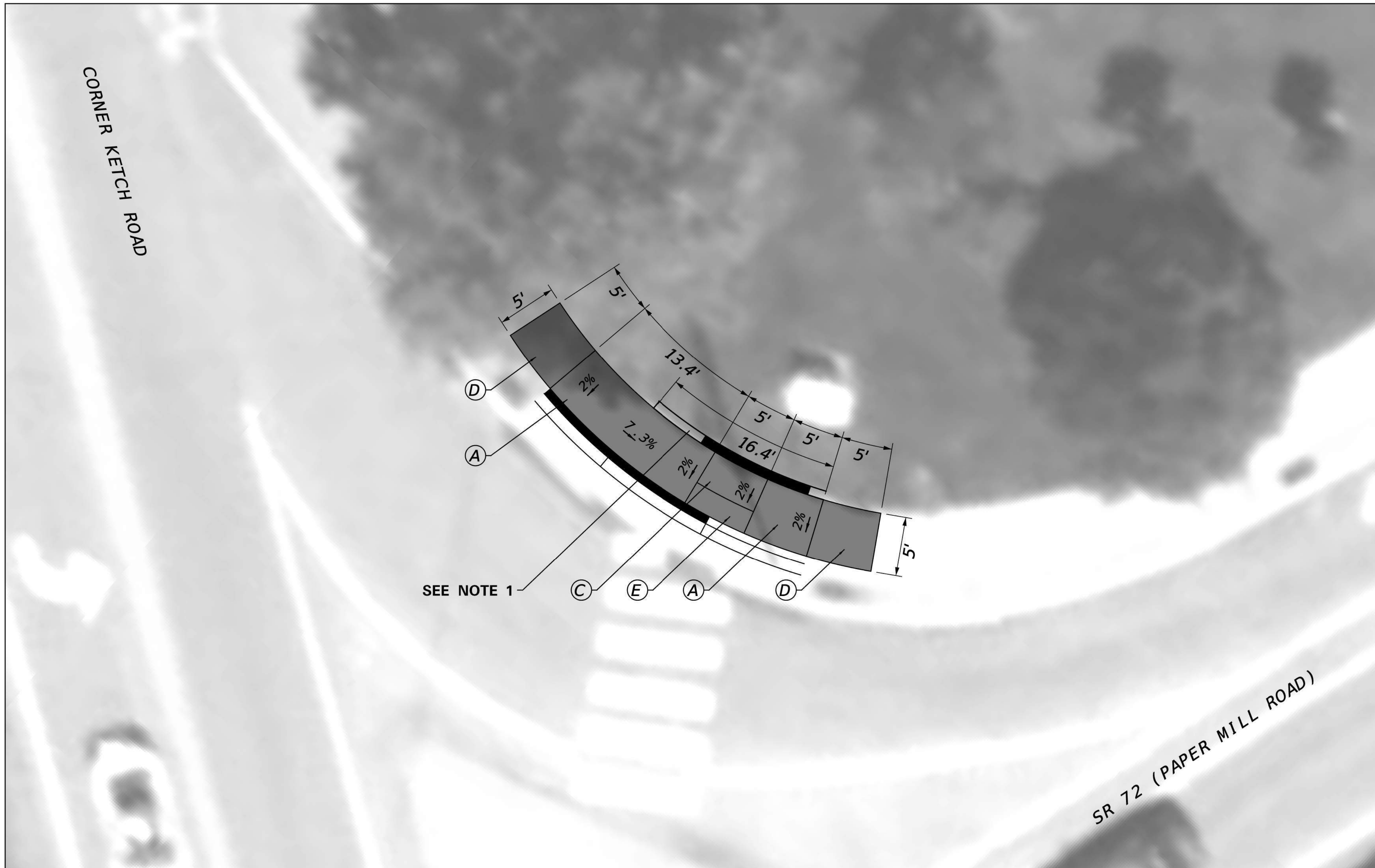
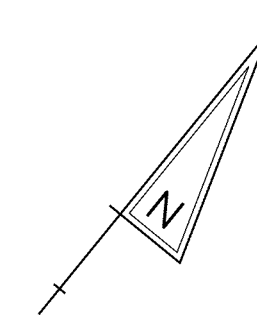
PIP-01A

SECTION
JMT
SHEET NO.
20

SYMBOL	ITEM
(A)	RAMP SEGMENT - RUNNING SLOPES MAY NOT EXCEED 8.3%
(C)	TURNING SPACE - CROSS SLOPES AND RUNNING SLOPES MUST NOT EXCEED 2%
(D)	TRANSITION SLAB
(E)	DETECTABLE WARNING SURFACE

NOTES

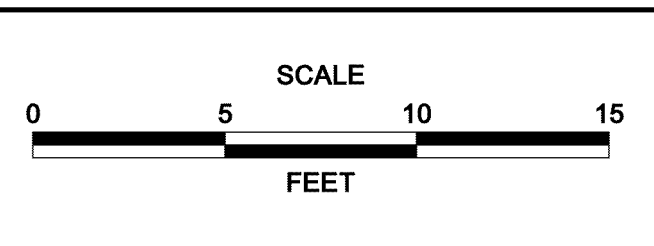
1. PROPOSED RETAINING CURB SEE DELDOT STANDARD DETAIL C-6



PEDESTRIAN CONNECTION DETAIL 1 – SR 72 (PAPER MILL ROAD) & CORNER KETCH ROAD
SCALE 1"=5'

7-AUG-2024 20:19 pw://jmt-pw-bentley.com/jmt-pw-01/Documents/Projects/2019/19-00797-002/JMT/General/2D Drawing/ADA Design/PR - Paper Mill Road.dgn

ADDENDUMS / REVISIONS



PAVEMENT & REHABILITATION
NORTH I, 2024
PAPER MILL ROAD

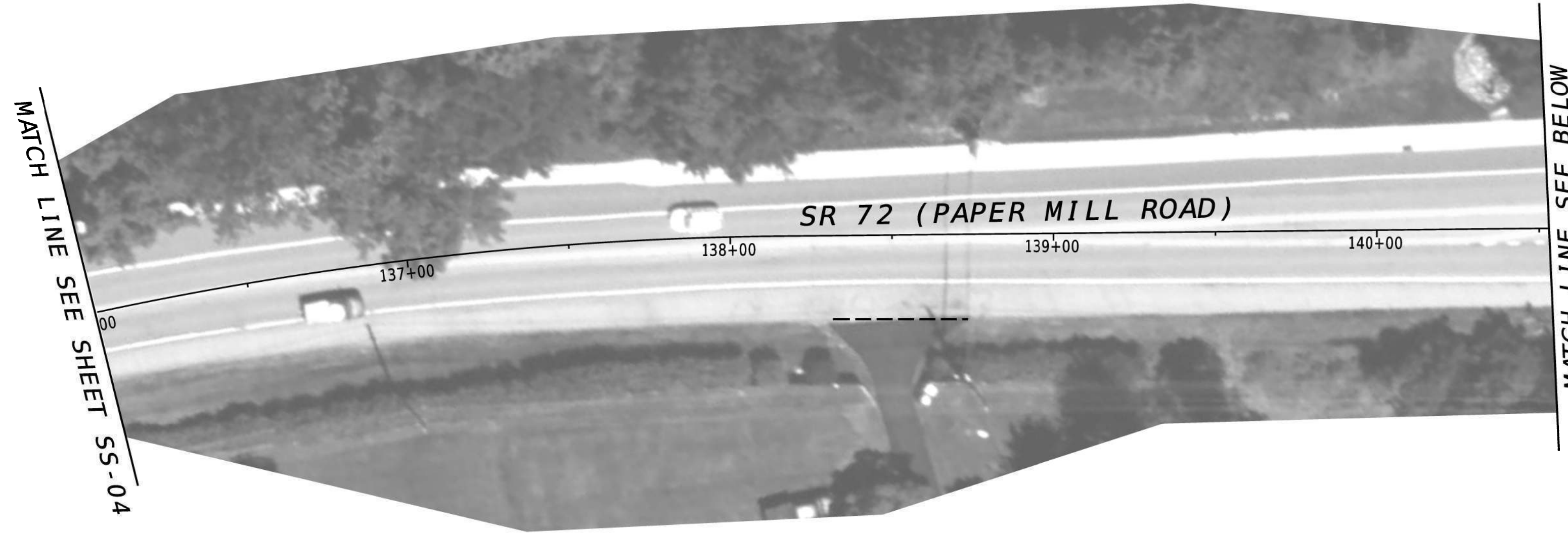
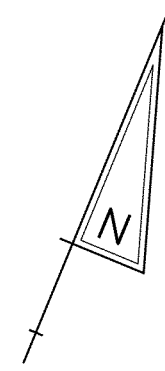
CONTRACT	ROAD NO.	S013
T202406101.02	DESIGNED BY:	M. TAPLIN
COUNTY	CHECKED BY:	B. DOUGHERTY
NEW CASTLE		

PEDESTRIAN IMPROVEMENT PLAN

PIP-02
SECTION
JMT
SHEET NO.
21

NOTES

1. THE PEDESTRIAN CONNECTION WAS FOUND TO BE NON-COMPLIANT DUE TO CROSS SLOPES (3.2%) WITHIN THE RAMP SEGMENT EXCEEDING THE ALLOWABLE 2%.



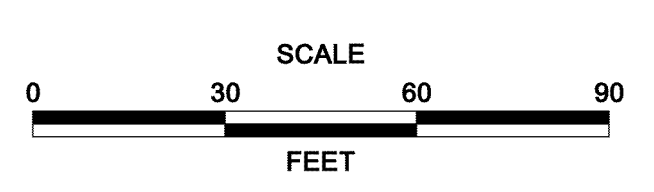
SEE NOTE 1

FINDAIL DRIVE

SR 72 (PAPER MILL ROAD)

SR 72 (PAPER MILL ROAD)

ADDENDUMS / REVISIONS	

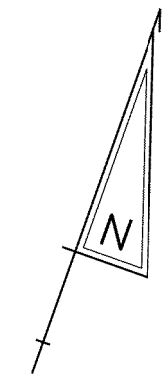


**PAVEMENT & REHABILITATION
NORTH I, 2024
PAPER MILL ROAD**

CONTRACT	ROAD NO.	S013
T202406101.02	DESIGNED BY:	M. TAPLIN
COUNTY	CHECKED BY:	B. DOUGHERTY
NEW CASTLE		

**PEDESTRIAN
IMPROVEMENT
PLAN**

PIP-03
SECTION
JMT
SHEET NO.
22



NOTES

1. THE PEDESTRIAN CONNECTION WAS FOUND TO BE NON-COMPLIANT DUE TO RUNNING SLOPES (3.3%) WITHIN THE TURNING SPACE EXCEEDING THE ALLOWABLE 2.0%.
2. THE PEDESTRIAN CONNECTION WAS FOUND TO BE NON-COMPLIANT DUE TO SLOPE GREATER THAN 2% AND NO DWS PRESENT.

LIMITS OF CONSTRUCTION
CONTRACT NO. T202406101

SEE DETAIL 2
ON SHEET PIP-05
SEE NOTE 1

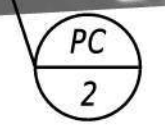
NORTH STAR ROAD

SR 72 (PAPER MILL ROAD)

MATCH LINE SEE SHEET PIP-03

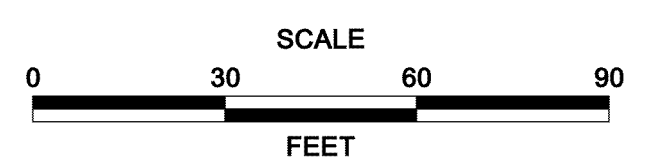
MATCH LINE SEE SHEET PIP-06

SEE NOTE 2



LIMITS OF CONSTRUCTION
CONTRACT NO. T202406101

ADDENDUMS / REVISIONS



**PAVEMENT & REHABILITATION
NORTH I, 2024
PAPER MILL ROAD**

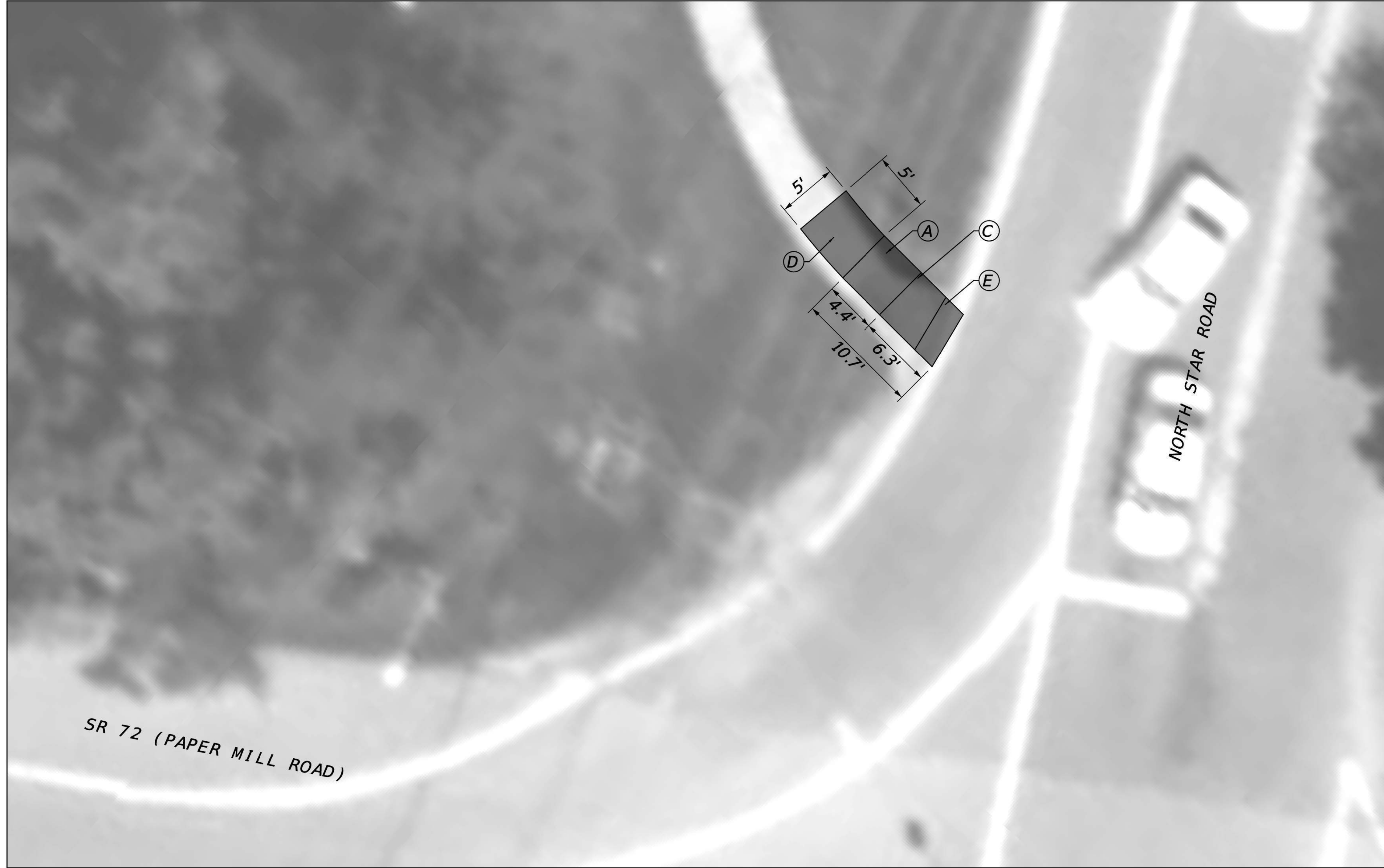
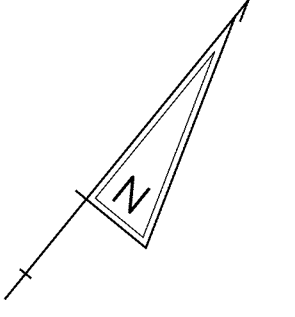
CONTRACT	ROAD NO.	S013
T202406101.02	DESIGNED BY:	M. TAPLIN
COUNTY	CHECKED BY:	B. DOUGHERTY
NEW CASTLE		

**PEDESTRIAN
IMPROVEMENT
PLAN**

PIP-04
SECTION
JMT
SHEET NO.
23

7-AUG-2024 20:21 pw://jmt-pw-bentley.com/jmt-pw-01/Documents/Projects/2019/19-00797-002/JMT/General/2D Drawing/ADA Design/PR - Paper Mill Road.dgn

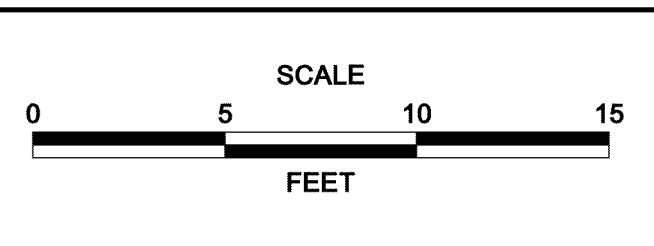
SYMBOL	ITEM
(A)	RAMP SEGMENT - RUNNING SLOPES MAY NOT EXCEED 8.3%
(B)	BLENDED TRANSITION - RUNNING SLOPES MAY NOT EXCEED 5%
(C)	TURNING SPACE - CROSS SLOPES AND RUNNING SLOPES MUST NOT EXCEED 2%
(D)	TRANSITION SLAB
(E)	DETECTABLE WARNING SURFACE



PEDESTRIAN CONNECTION DETAIL 2 - SR 72 (PAPER MILL ROAD) & NORTH STAR ROAD
SCALE 1"=5'

7-AUG-2024 2:02:22 pm \\jmt-pw-bentley.com\jmt-pw-01\Documents\Projects\2019\19-00797-002\JMT\General\2D Drawing\ADA Design\PR - Paper Mill Road.dgn

ADDENDUMS / REVISIONS

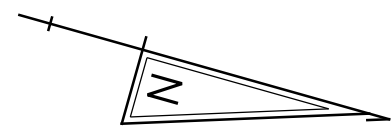


PAVEMENT & REHABILITATION
NORTH I, 2024
PAPER MILL ROAD

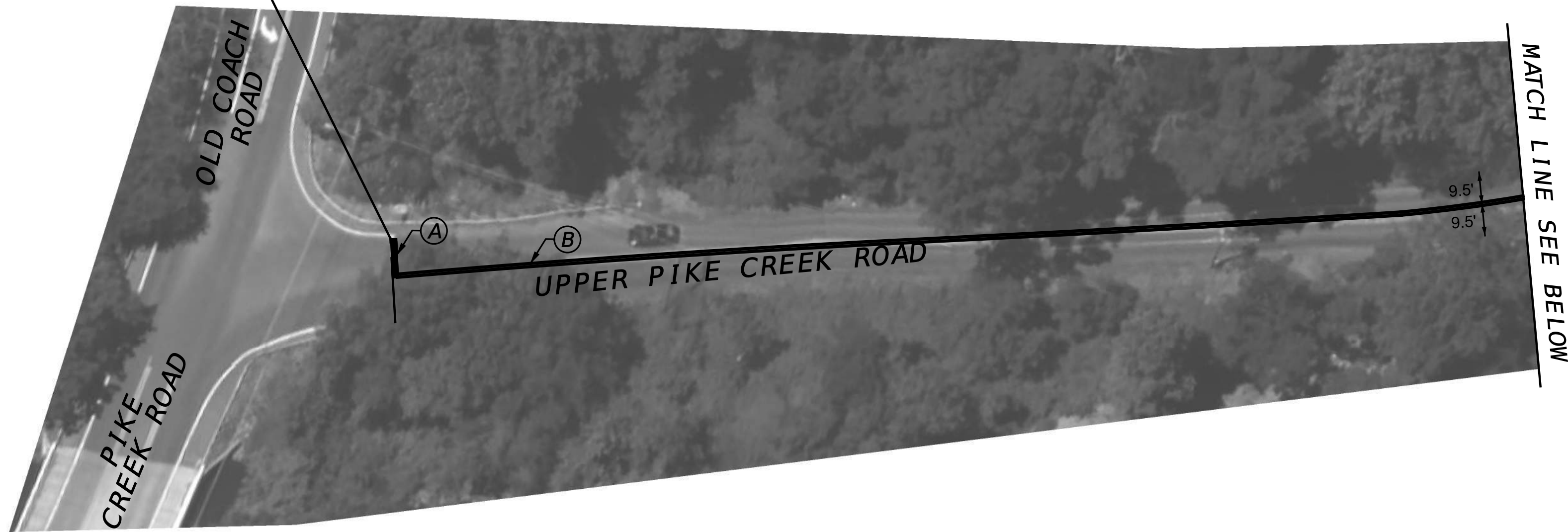
CONTRACT	ROAD NO.	S013
T202406101.02	DESIGNED BY:	M. TAPLIN
COUNTY	CHECKED BY:	B. DOUGHERTY
NEW CASTLE		

PEDESTRIAN IMPROVEMENT PLAN

PIP-05
SECTION
JMT
SHEET NO.
24



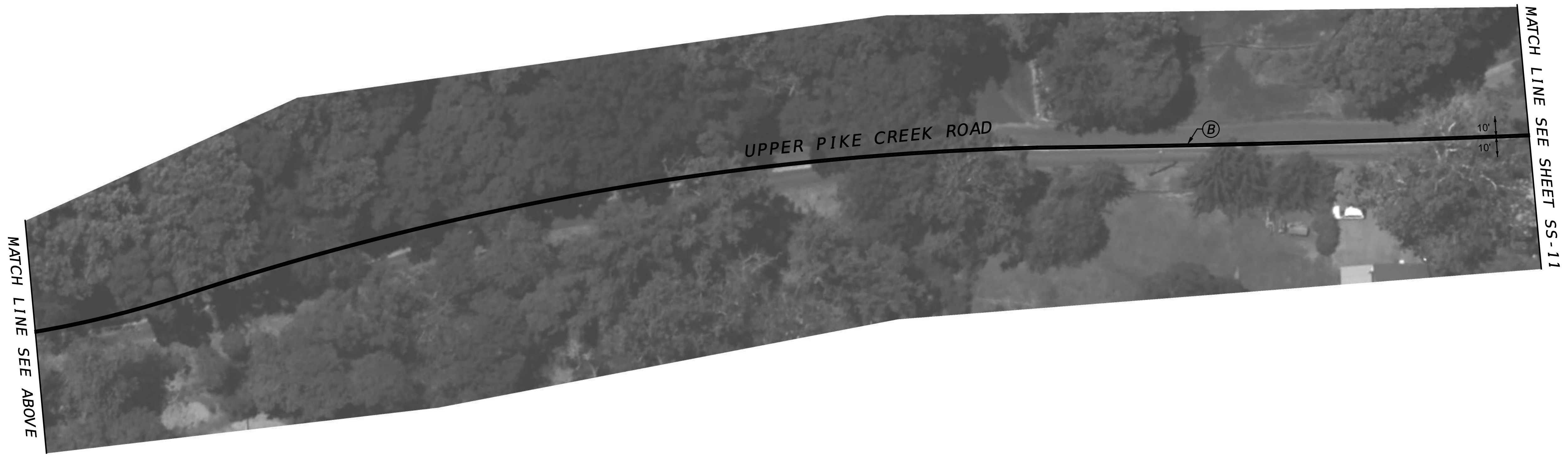
LIMITS OF CONSTRUCTION
 CONTRACT NO. T202406101
 MATCH EXISTING STRIPING



PAVEMENT MARKINGS LEGEND		
SYMBOL		QUANTITY
(A)	ALKYD-THERMOPLASTIC PAVEMENT STRIPING, WHITE 16" SOLID (ITEM 817002)	17 SF
(B)	EPOXY RESIN PAVEMENT STRIPING, YELLOW 6" SOLID DOUBLE (ITEM 817042)	2,440 LF

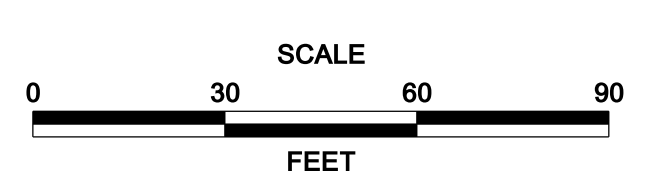
NOTES:

- UPPER PIKE CREEK ROAD HAS VARYING LANE WIDTHS THAT CHANGE RAPIDLY THROUGHOUT THE CORRIDOR.



8/8/2024 9:33:52 AM c:\pwworking\jmt\jmt\jmt.com\094812255 - Upper Pike Creek Rd_North Star Rd.dgn

ADDENDUMS / REVISIONS



**PAVEMENT & REHABILITATION
 NORTH I, 2024
 UPPER PIKE CREEK ROAD**

CONTRACT	ROAD NO.	N295
T202406101.02	DESIGNED BY: R. KUSY / J. CLEM	
COUNTY	CHECKED BY: M. WAHED	
NEW CASTLE		

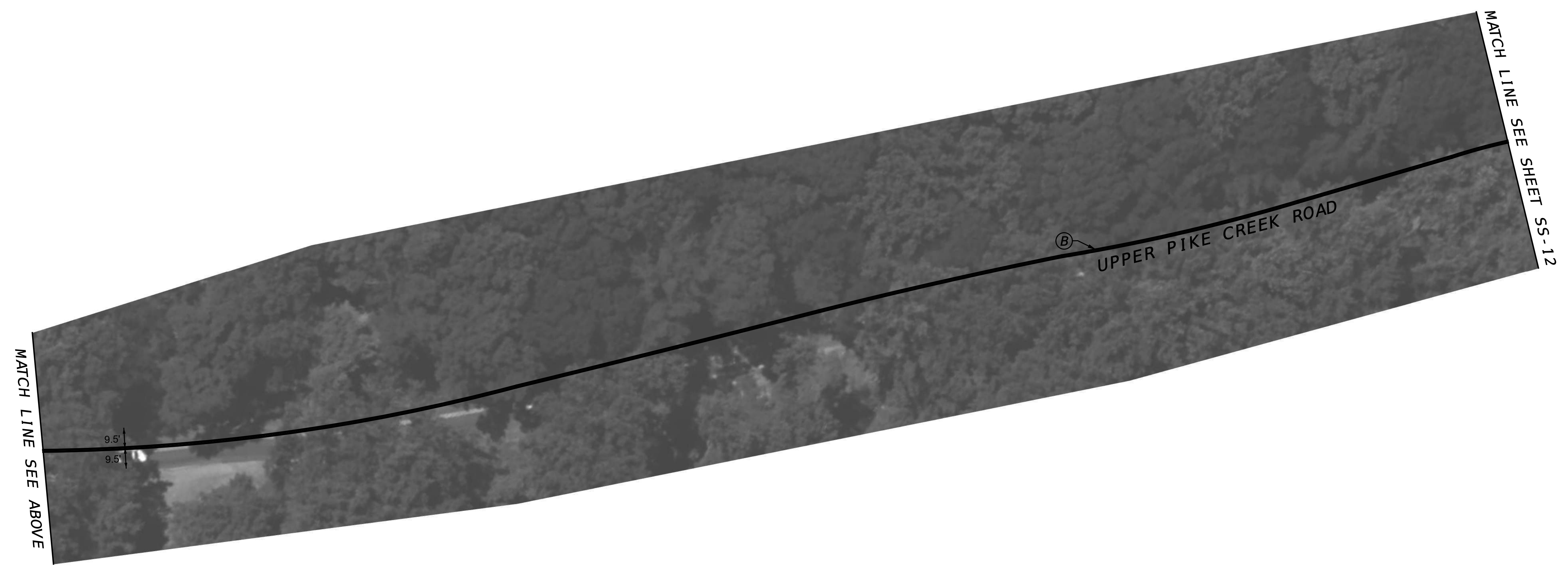
SIGNING AND STRIPING PLAN

SS-10
SECTION
JMT
SHEET NO.
26



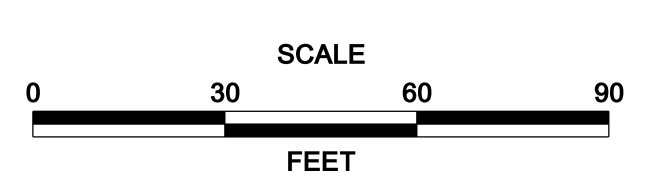
PAVEMENT MARKINGS LEGEND		
SYMBOL		QUANTITY
ⓑ	EPOXY RESIN PAVEMENT STRIPING, YELLOW 6" SOLID DOUBLE (ITEM 817042)	2,640 LF

- NOTES:
- UPPER PIKE CREEK ROAD HAS VARYING LANE WIDTHS THAT CHANGE RAPIDLY THROUGHOUT THE CORRIDOR.



8/8/2024 9:35:43 AM c:\pwworking\jmt\jmt.com\00948122\SS - Upper Pike Creek Rd_North Star Rd.dgn

ADDENDUMS / REVISIONS	



**PAVEMENT & REHABILITATION
 NORTH I, 2024
 UPPER PIKE CREEK ROAD**

CONTRACT	ROAD NO.	N295
T202406101.02	DESIGNED BY: R. KUSY / J. CLEM	
COUNTY	CHECKED BY: M. WAHED	
NEW CASTLE		

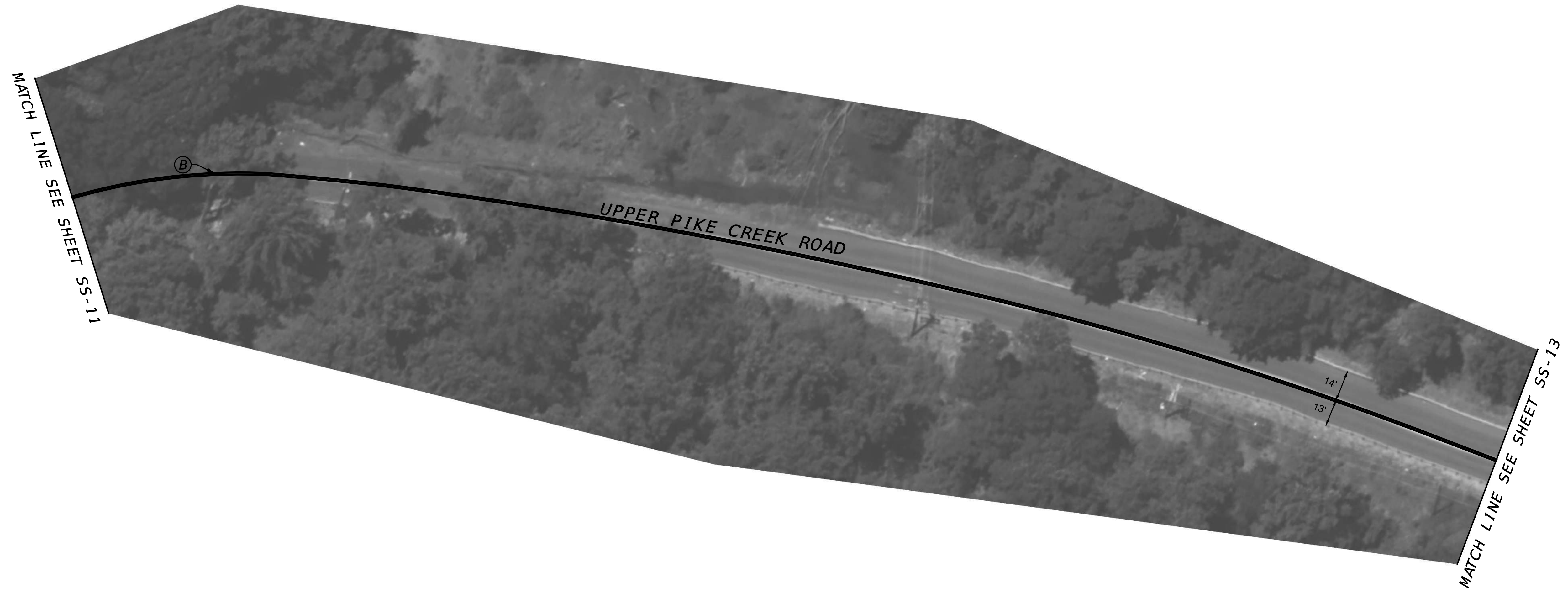
SIGNING AND STRIPING PLAN	SECTION	SS-11
	SHEET NO.	27



PAVEMENT MARKINGS LEGEND		
SYMBOL		QUANTITY
Ⓟ	EPOXY RESIN PAVEMENT STRIPING, YELLOW 6" SOLID DOUBLE (ITEM 817042)	1,610 LF

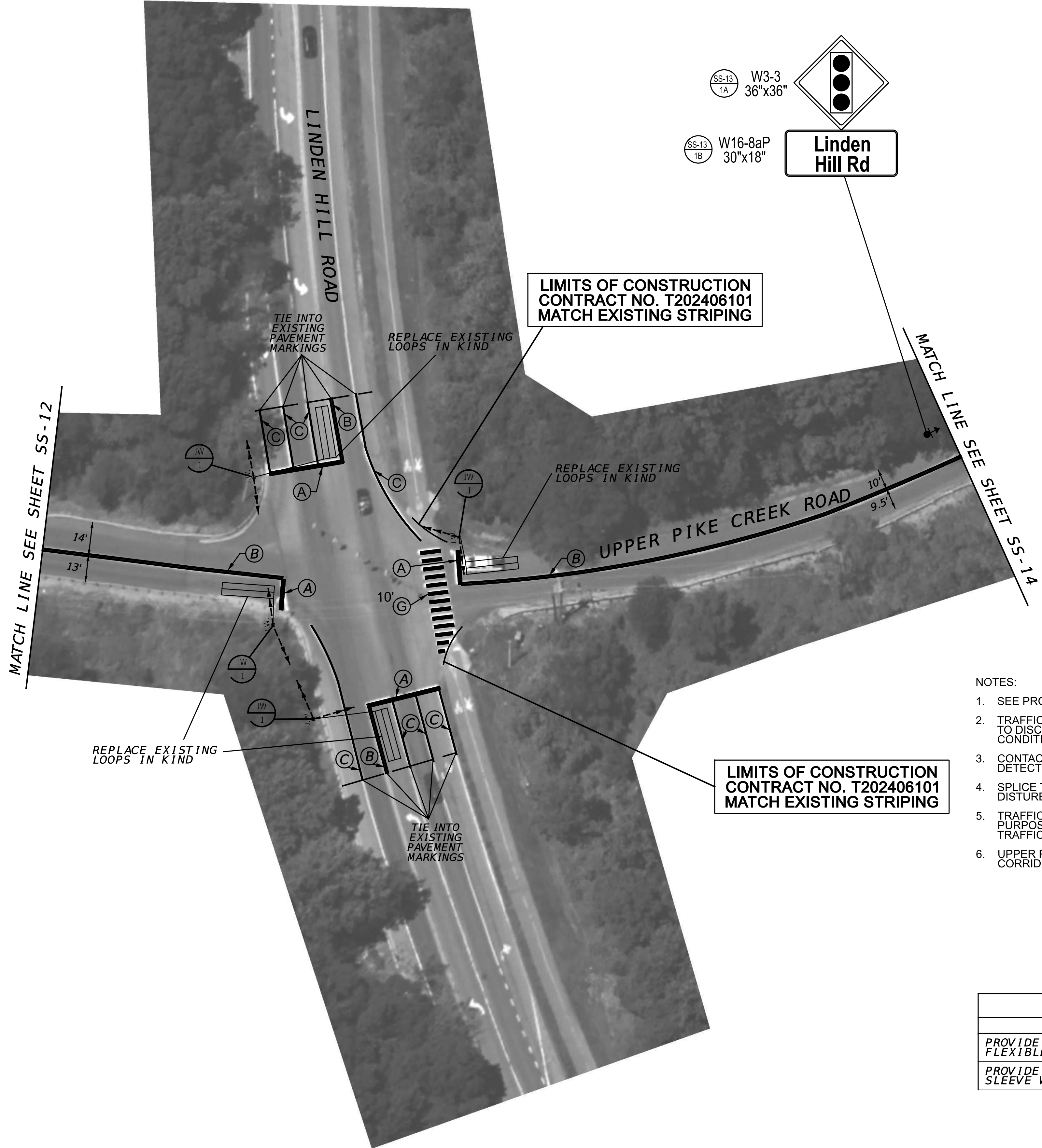
NOTES:

- UPPER PIKE CREEK ROAD HAS VARYING LANE WIDTHS THAT CHANGE RAPIDLY THROUGHOUT THE CORRIDOR.



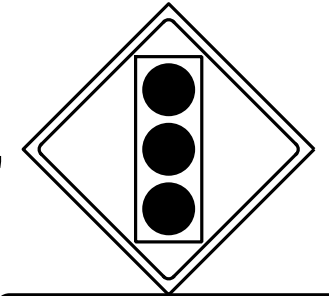
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ADDENDUMS / REVISIONS		SCALE FEET	PAVEMENT & REHABILITATION NORTH I, 2024 UPPER PIKE CREEK ROAD	CONTRACT T202406101.02	ROAD NO. N295	SIGNING AND STRIPING PLAN	SECTION SS-12
				COUNTY NEW CASTLE	DESIGNED BY: R. KUSY / J. CLEM		JMT
			CHECKED BY: M. WAHED	SHEET NO. 28			



SS-13 1A W3-3 36"x36"

SS-13 1B W16-8aP 30"x18"



Linden Hill Rd

PAVEMENT MARKINGS LEGEND		
SYMBOL	DESCRIPTION	QUANTITY
(A)	ALKYD-THERMOPLASTIC PAVEMENT STRIPING, WHITE 16" SOLID (ITEM 817002)	148 SF
(B)	EPOXY RESIN PAVEMENT STRIPING, YELLOW 6" SOLID DOUBLE (ITEM 817042)	790 LF
(C)	EPOXY RESIN PAVEMENT STRIPING, WHITE 6" SOLID (ITEM 817042)	380 LF
(G)	ALKYD-THERMOPLASTIC PAVEMENT STRIPING, WHITE 24" SOLID (ITEM 817002)	286 SF

LIMITS OF CONSTRUCTION
CONTRACT NO. T202406101
MATCH EXISTING STRIPING

LIMITS OF CONSTRUCTION
CONTRACT NO. T202406101
MATCH EXISTING STRIPING

NOTES:

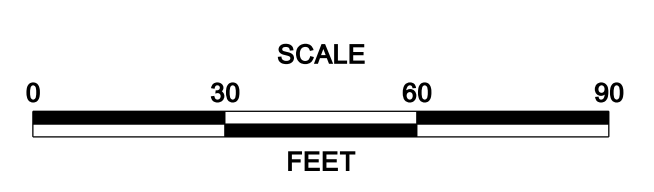
- SEE PROJECT NOTES SHEET 3 NOTE 9 FOR ADDITIONAL INFORMATION CONCERNING SIGNAL LOOPS.
- TRAFFIC CONTRACTOR TO INSTALL TEMPORARY DETECTION PER TEMPORARY SIGNAL PLAN PRIOR TO DISCONNECTING LOOPS. TEMPORARY WAVE TRONIX DETECTION TO REMAIN DEACTIVATED IN ULTIMATE CONDITION AFTER ULTIMATE LOOP DETECTORS ARE OPERATIONAL.
- CONTACT DELDOT TMC 10 DAYS PRIOR TO DISCONNECTING AND RECONNECTING TRAFFIC SIGNAL DETECTION LOOPS AT 302-659-4600.
- SPLICE TRAFFIC SIGNAL DETECTION LOOP WIRES IN THE EXISTING JUNCTION WELLS. DO NOT DISTURB HOME RUN CABLES.
- TRAFFIC SIGNAL CONDUITS AND JUNCTION WELLS ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY. FIELD VERIFY ACTUAL JUNCTION WELL LOCATIONS FOR SPLICING TRAFFIC SIGNAL DETECTION LOOPS.
- UPPER PIKE CREEK ROAD HAS VARYING LANE WIDTHS THAT CHANGE RAPIDLY THROUGHOUT THE CORRIDOR.

SIGNAL LEGEND	
PROPOSED LOOP DETECTOR, TYPE 1	
PROPOSED LOOP DETECTOR, TYPE 2	

SIGNAL LOOP QUANTITIES	
DESCRIPTION	QUANTITY
PROVIDE & INSTALL LOOP WIRE 1-CONDUCTOR #14 AWG ENCASED IN 1/4" FLEXIBLE TUBING IN A LOOP SAWCUT (ITEM 846001)	450 LF
PROVIDE & INSTALL A 1.5 INCH GALVANIZED RIGID METAL CONDUIT DETECTOR SLEEVE WITH LOOP WIRE (ITEM 846002)	30 LF

8/8/2024 9:38:10 AM c:\pwworking\jmt\jmt.com\0948122155 - Upper Pike Creek Rd_North Star Rd.dgn

ADDENDUMS / REVISIONS



PAVEMENT & REHABILITATION
NORTH I, 2024
UPPER PIKE CREEK ROAD

CONTRACT	ROAD NO.	N295
T202406101.02	DESIGNED BY:	R. KUSY / J. CLEM
COUNTY	CHECKED BY:	M. WAHED
NEW CASTLE		

SIGNING AND STRIPING PLAN	SECTION
	JMT
	SHEET NO.
	29

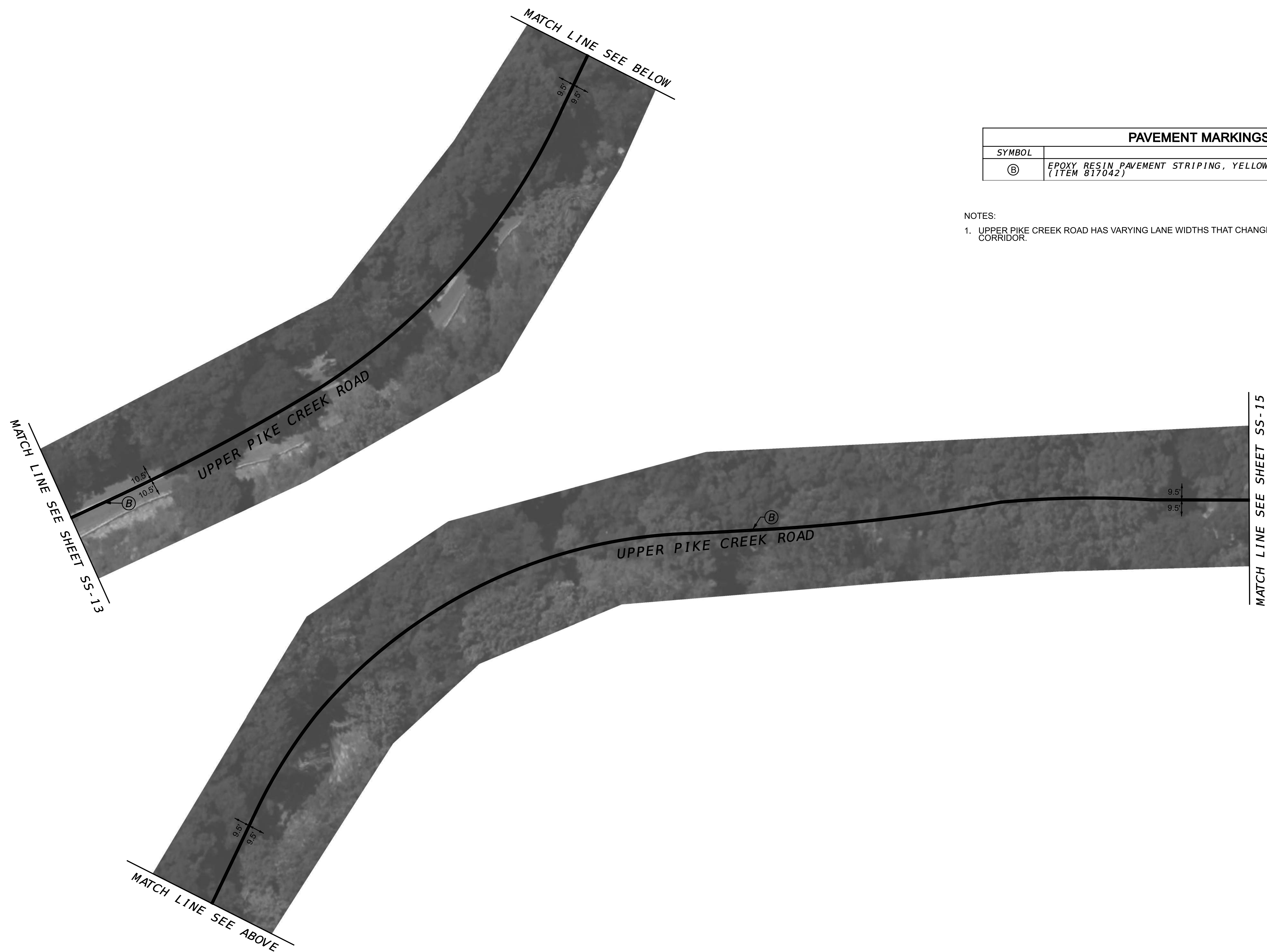
SS-13



PAVEMENT MARKINGS LEGEND		
SYMBOL		QUANTITY
ⓑ	EPOXY RESIN PAVEMENT STRIPING, YELLOW 6" SOLID DOUBLE (ITEM 817042)	2,640 LF

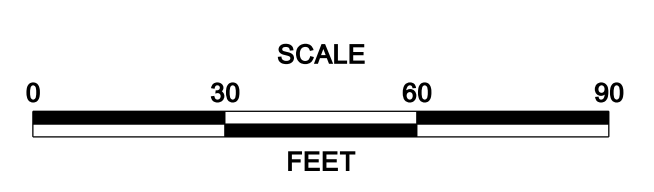
NOTES:

- UPPER PIKE CREEK ROAD HAS VARYING LANE WIDTHS THAT CHANGE RAPIDLY THROUGHOUT THE CORRIDOR.



8/8/2024 9:30:51 AM c:\pwworking\jmt\jmt.com\00948122\SS - Upper Pike Creek Rd_North Star Rd.dgn

ADDENDUMS / REVISIONS



**PAVEMENT & REHABILITATION
NORTH I, 2024
UPPER PIKE CREEK ROAD**

CONTRACT	ROAD NO.	N295
T202406101.02	DESIGNED BY:	R. KUSY / J. CLEM
COUNTY	CHECKED BY:	M. WAHED
NEW CASTLE		

SIGNING AND STRIPING PLAN

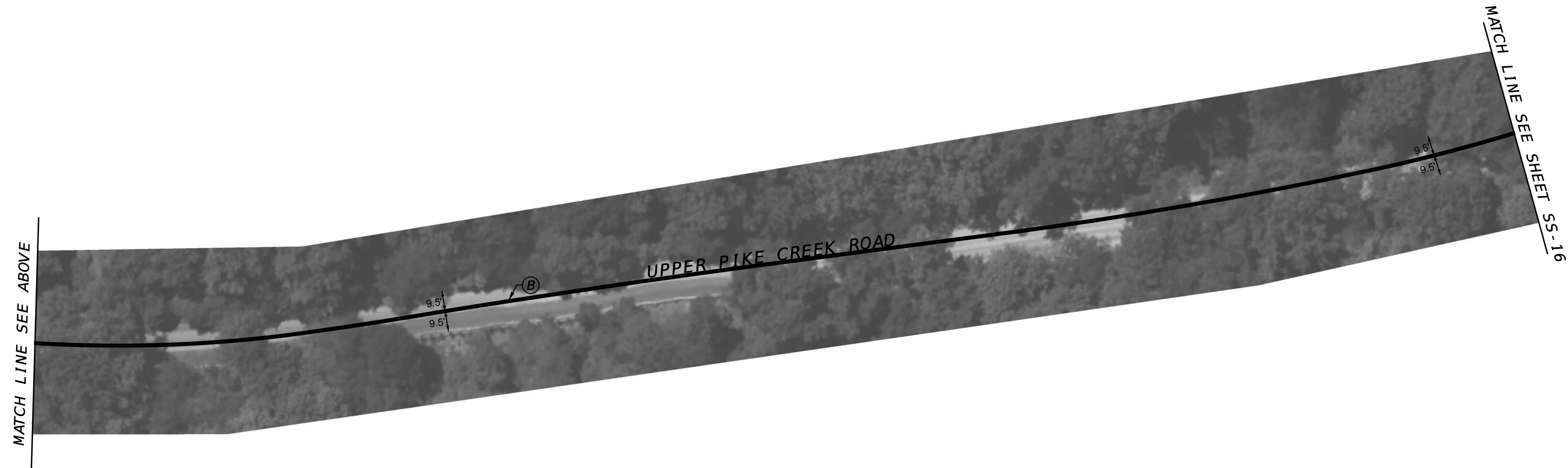
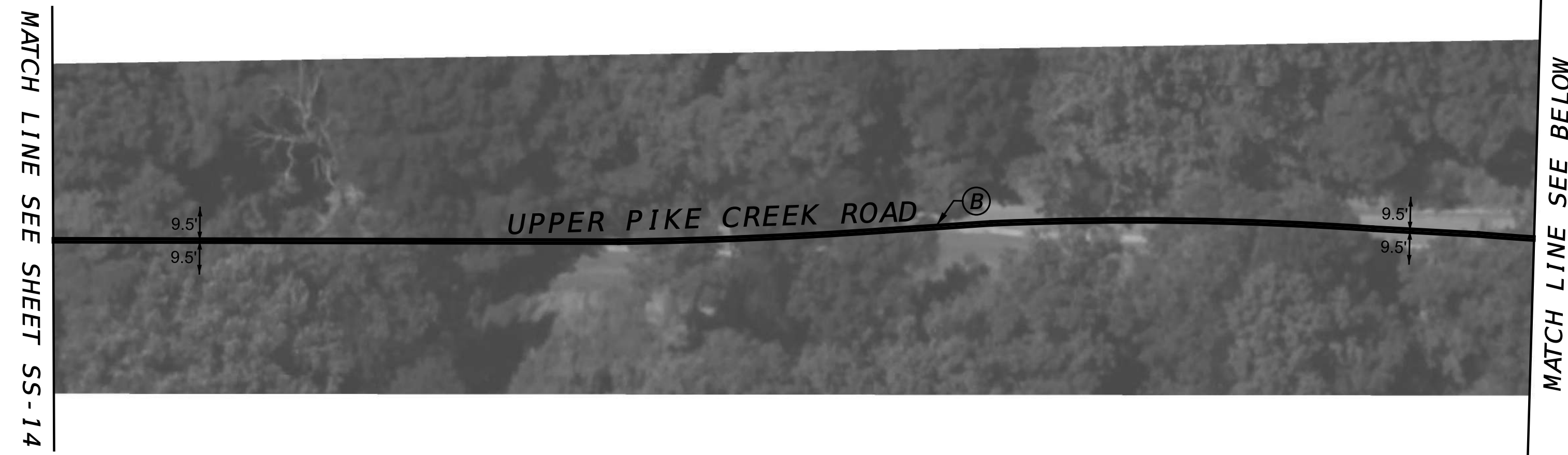
SS-14
SECTION
JMT
SHEET NO.
30



PAVEMENT MARKINGS LEGEND		
SYMBOL		QUANTITY
ⓑ	EPOXY RESIN PAVEMENT STRIPING, YELLOW 6" SOLID DOUBLE (ITEM 817042)	2,610 LF

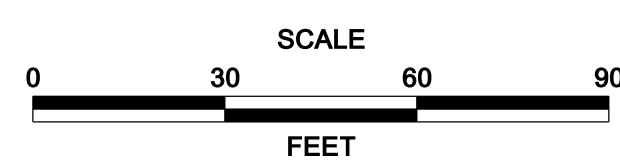
NOTES:

- UPPER PIKE CREEK ROAD HAS VARYING LANE WIDTHS THAT CHANGE RAPIDLY THROUGHOUT THE CORRIDOR.



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ADDENDUMS / REVISIONS

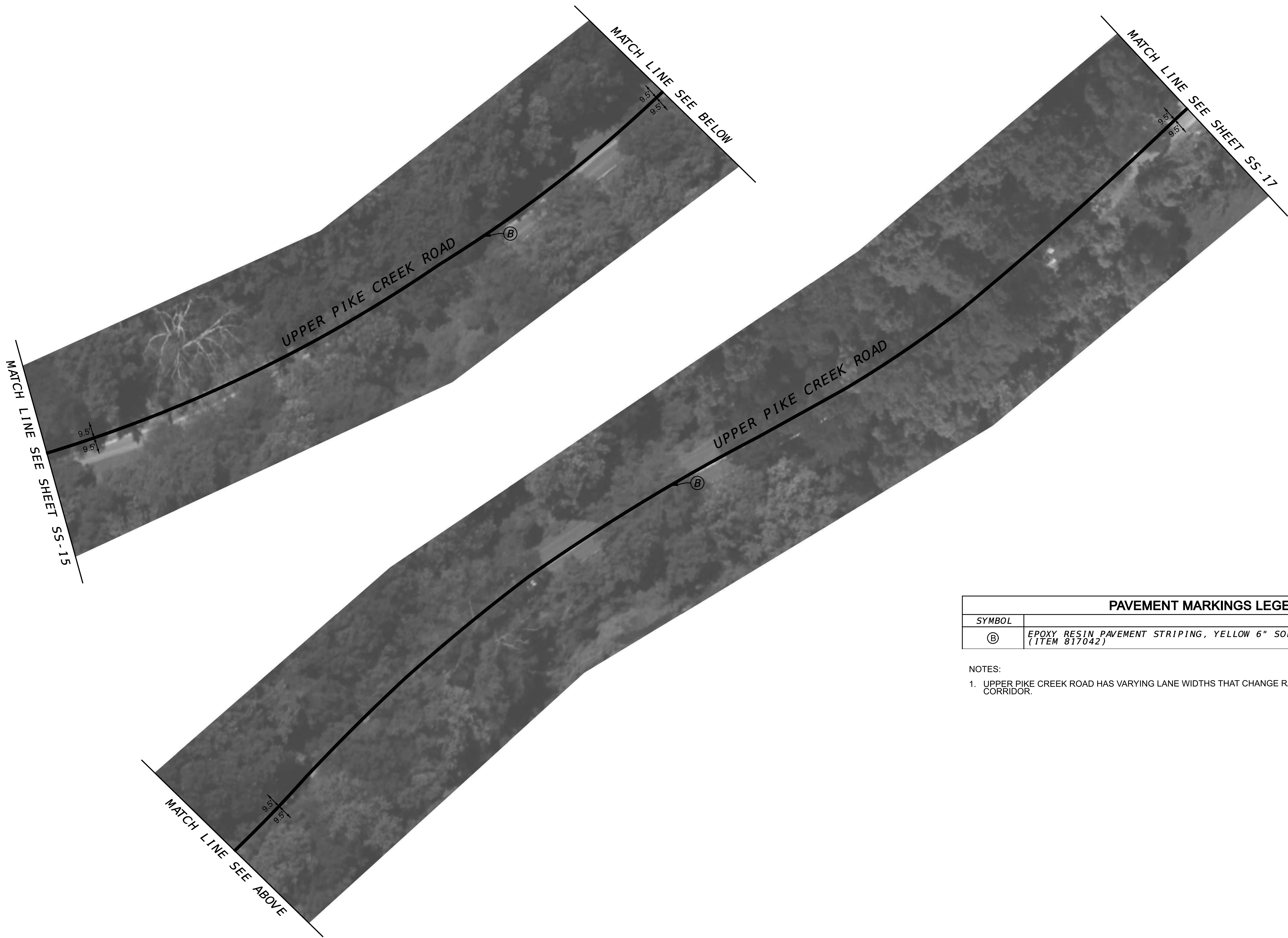
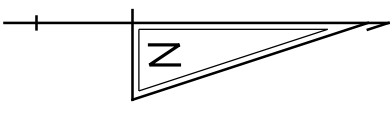


**PAVEMENT & REHABILITATION
 NORTH I, 2024
 UPPER PIKE CREEK ROAD**

CONTRACT	ROAD NO.	N295
T202406101.02	DESIGNED BY: R. KUSY / J. CLEM	
COUNTY	CHECKED BY: M. WAHED	
NEW CASTLE		

**SIGNING AND
 STRIPING PLAN**

SS-15
SECTION
JMT
SHEET NO.
31

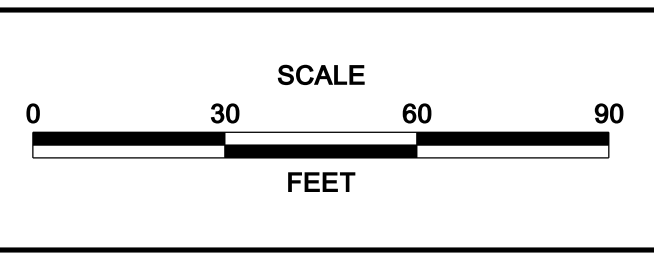


PAVEMENT MARKINGS LEGEND		
SYMBOL	DESCRIPTION	QUANTITY
ⓑ	EPOXY RESIN PAVEMENT STRIPING, YELLOW 6" SOLID DOUBLE (ITEM 817042)	2,740 LF

- NOTES:
- UPPER PIKE CREEK ROAD HAS VARYING LANE WIDTHS THAT CHANGE RAPIDLY THROUGHOUT THE CORRIDOR.

8/8/2024 9:42:50 AM
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ADDENDUMS / REVISIONS

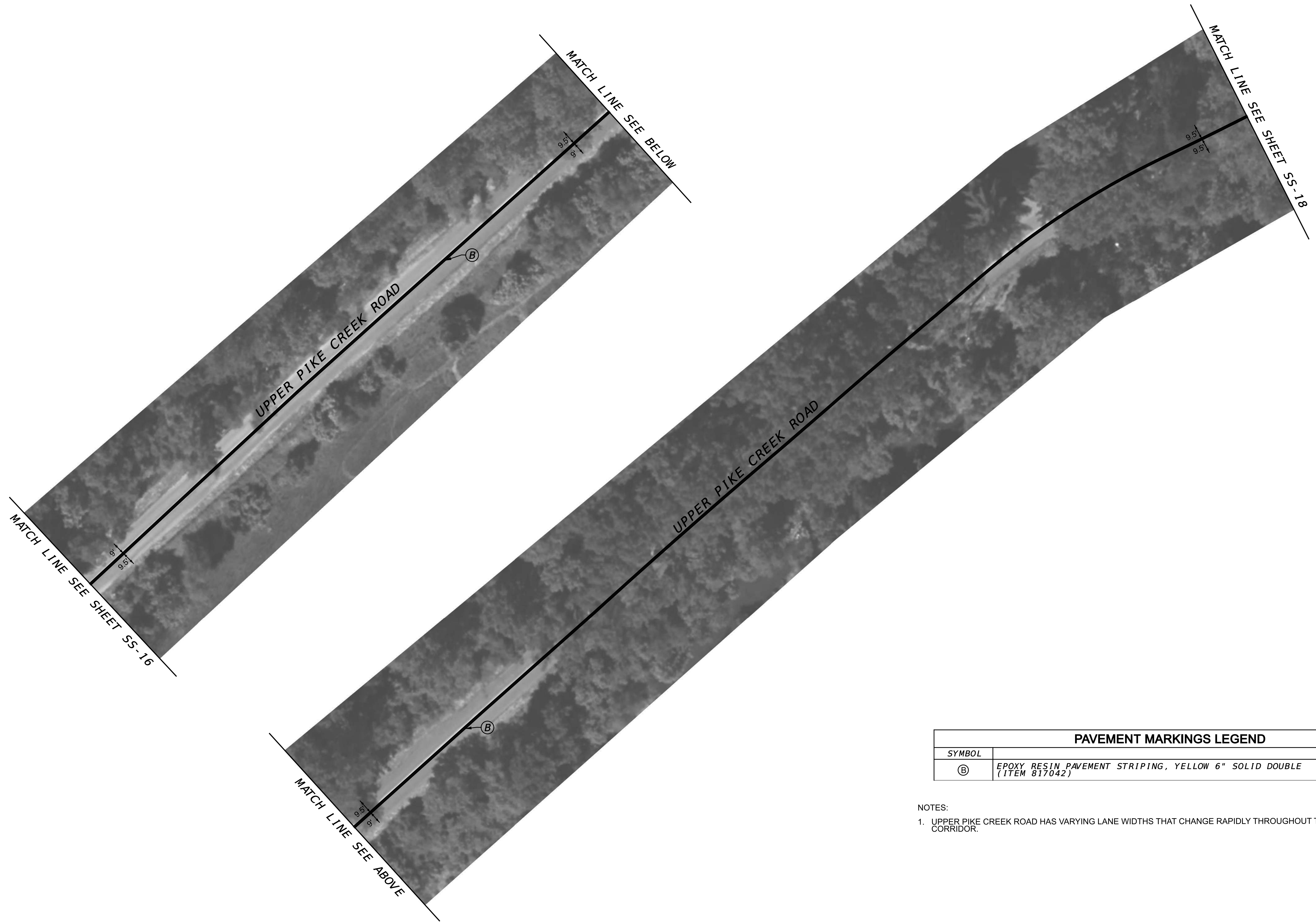
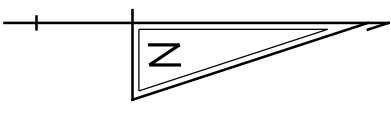


**PAVEMENT & REHABILITATION
 NORTH I, 2024
 UPPER PIKE CREEK ROAD**

CONTRACT	ROAD NO.	N295
T202406101.02	DESIGNED BY:	R. KUSY / J. CLEM
COUNTY	CHECKED BY:	M. WAHED
NEW CASTLE		

SIGNING AND STRIPING PLAN	SECTION
	JMT
	SHEET NO.
	32

SS-16

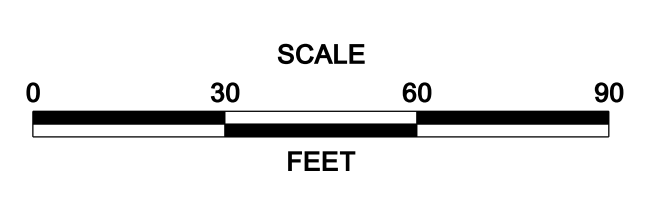


PAVEMENT MARKINGS LEGEND		
SYMBOL		QUANTITY
ⓑ	EPOXY RESIN PAVEMENT STRIPING, YELLOW 6" SOLID DOUBLE (ITEM 817042)	2,625 LF

- NOTES:
- UPPER PIKE CREEK ROAD HAS VARYING LANE WIDTHS THAT CHANGE RAPIDLY THROUGHOUT THE CORRIDOR.

8/8/2024
 9:44:26 AM
 c:\pwworking\jmt\jmt.com\0948122\SS - Upper Pike Creek Rd_North Star Rd.dgn

ADDENDUMS / REVISIONS	



**PAVEMENT & REHABILITATION
NORTH I, 2024
UPPER PIKE CREEK ROAD**

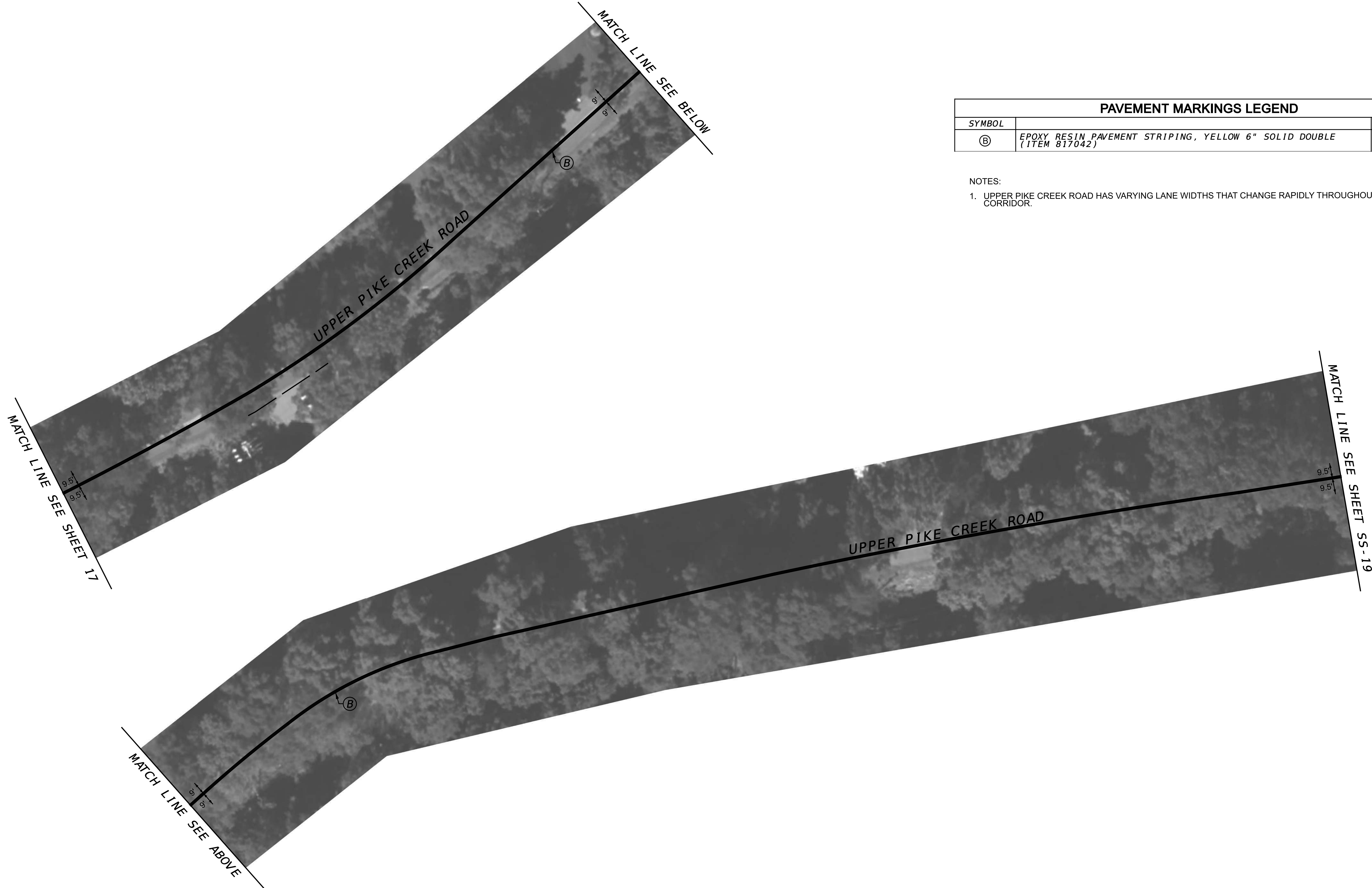
CONTRACT	ROAD NO.	N295
T202406101.02	DESIGNED BY:	R. KUSY / J. CLEM
COUNTY	CHECKED BY:	M. WAHED
NEW CASTLE		

SIGNING AND STRIPING PLAN	SECTION	SS-17
	SHEET NO.	33



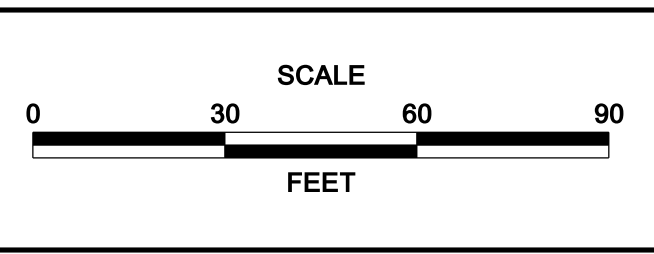
PAVEMENT MARKINGS LEGEND		
SYMBOL		QUANTITY
ⓑ	EPOXY RESIN PAVEMENT STRIPING, YELLOW 6" SOLID DOUBLE (ITEM 817042)	2,655 LF

NOTES:
 1. UPPER PIKE CREEK ROAD HAS VARYING LANE WIDTHS THAT CHANGE RAPIDLY THROUGHOUT THE CORRIDOR.



8/8/2024 9:45:50 AM c:\pwworking\jmt\jmt.com\00948122\SS - Upper Pike Creek Rd_North Star Rd.dgn

ADDENDUMS / REVISIONS



**PAVEMENT & REHABILITATION
 NORTH I, 2024
 UPPER PIKE CREEK ROAD**

CONTRACT	ROAD NO.	N295
T202406101.02	DESIGNED BY:	R. KUSY / J. CLEM
COUNTY	CHECKED BY:	M. WAHED
NEW CASTLE		

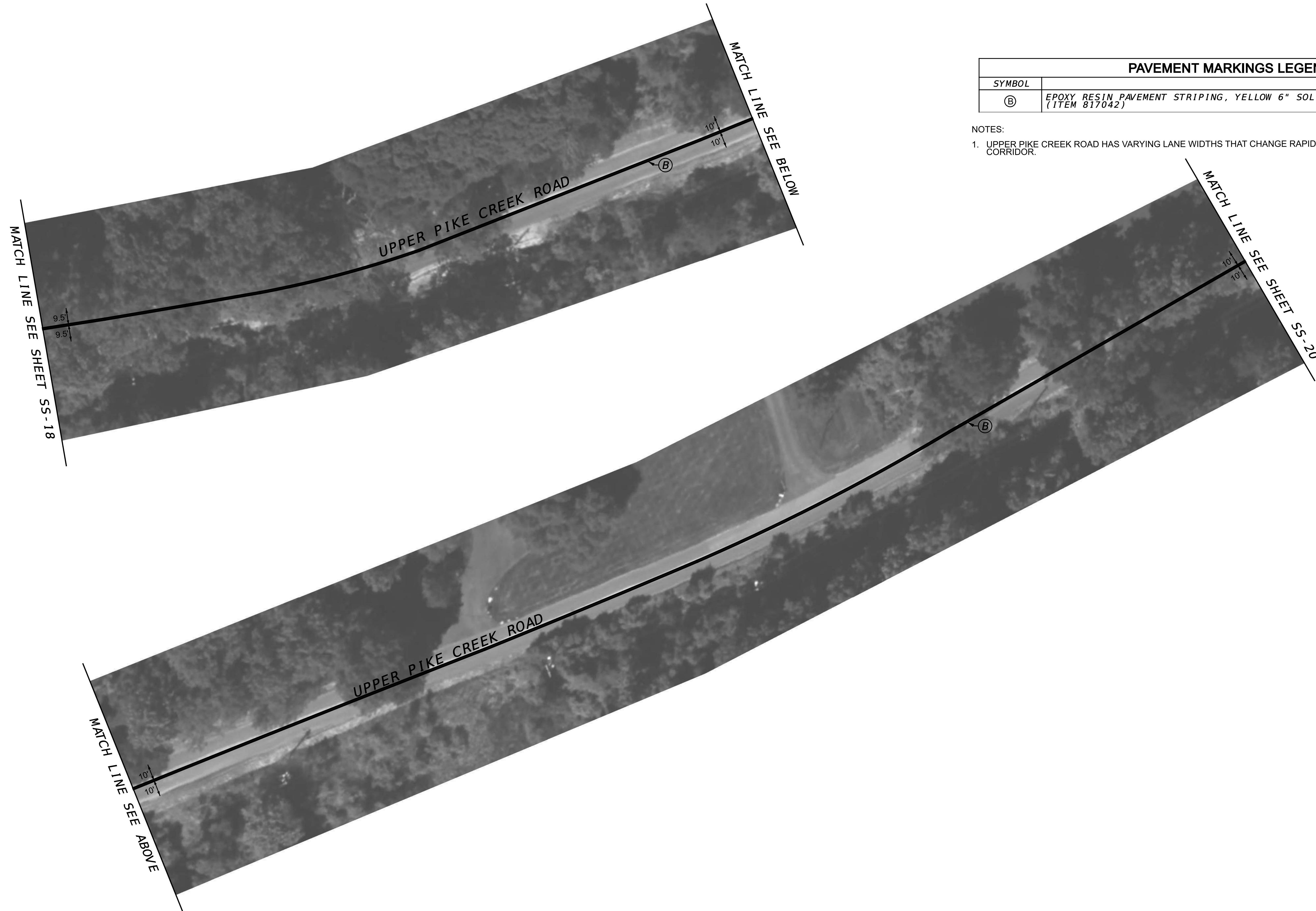
SIGNING AND STRIPING PLAN	SECTION
	SS-18
	SHEET NO.
	34



PAVEMENT MARKINGS LEGEND		
SYMBOL		QUANTITY
(B)	EPOXY RESIN PAVEMENT STRIPING, YELLOW 6" SOLID DOUBLE (ITEM 817042)	2,645 LF

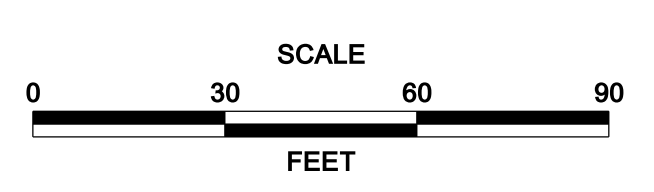
NOTES:

- UPPER PIKE CREEK ROAD HAS VARYING LANE WIDTHS THAT CHANGE RAPIDLY THROUGHOUT THE CORRIDOR.



8/8/2024 9:47:10 AM c:\pwworking\jmt\clem\jmt.com\00948122\SS - Upper Pike Creek Rd_North Star Rd.dgn

ADDENDUMS / REVISIONS

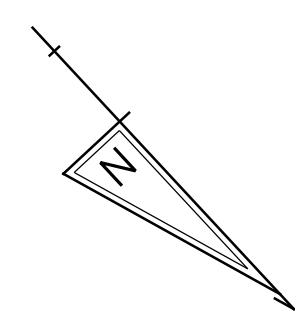


PAVEMENT & REHABILITATION
NORTH I, 2024
UPPER PIKE CREEK ROAD

CONTRACT	ROAD NO.	N295
T202406101.02	DESIGNED BY:	R. KUSY / J. CLEM
COUNTY	CHECKED BY:	M. WAHED
NEW CASTLE		

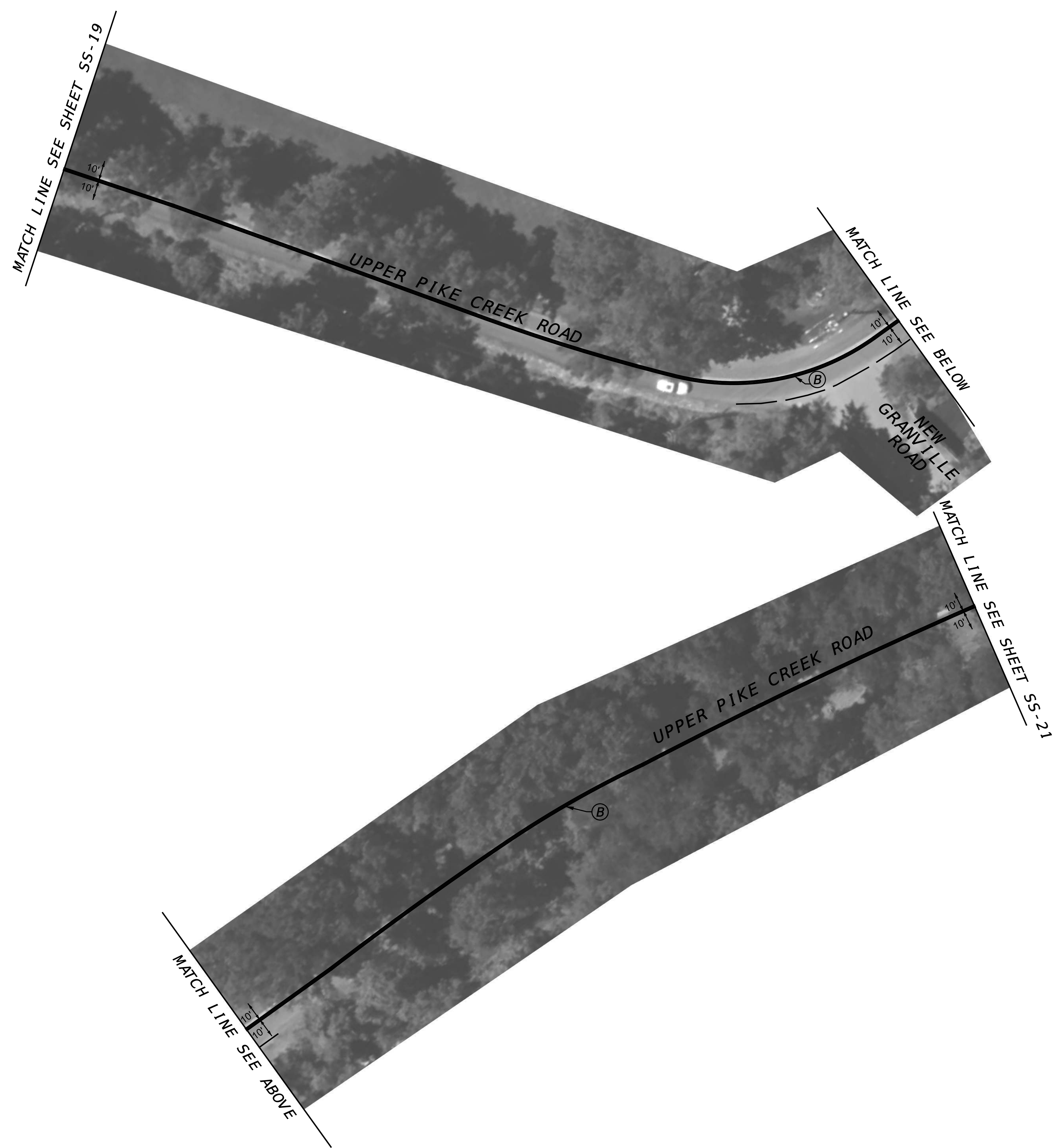
SIGNING AND STRIPING PLAN

SS-19
SECTION
JMT
SHEET NO.
35



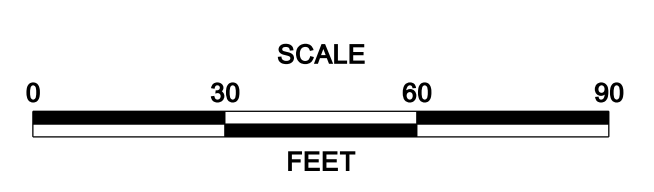
PAVEMENT MARKINGS LEGEND		
SYMBOL		QUANTITY
Ⓟ	EPOXY RESIN PAVEMENT STRIPING, YELLOW 6" SOLID DOUBLE (ITEM 817042)	1,925 LF

NOTES:
 1. UPPER PIKE CREEK ROAD HAS VARYING LANE WIDTHS THAT CHANGE RAPIDLY THROUGHOUT THE CORRIDOR.



8/8/2024 9:48:35 AM c:\pwworking\jmt\jmt.com\00948122\SS - Upper Pike Creek Rd_North Star Rd.dgn

ADDENDUMS / REVISIONS	

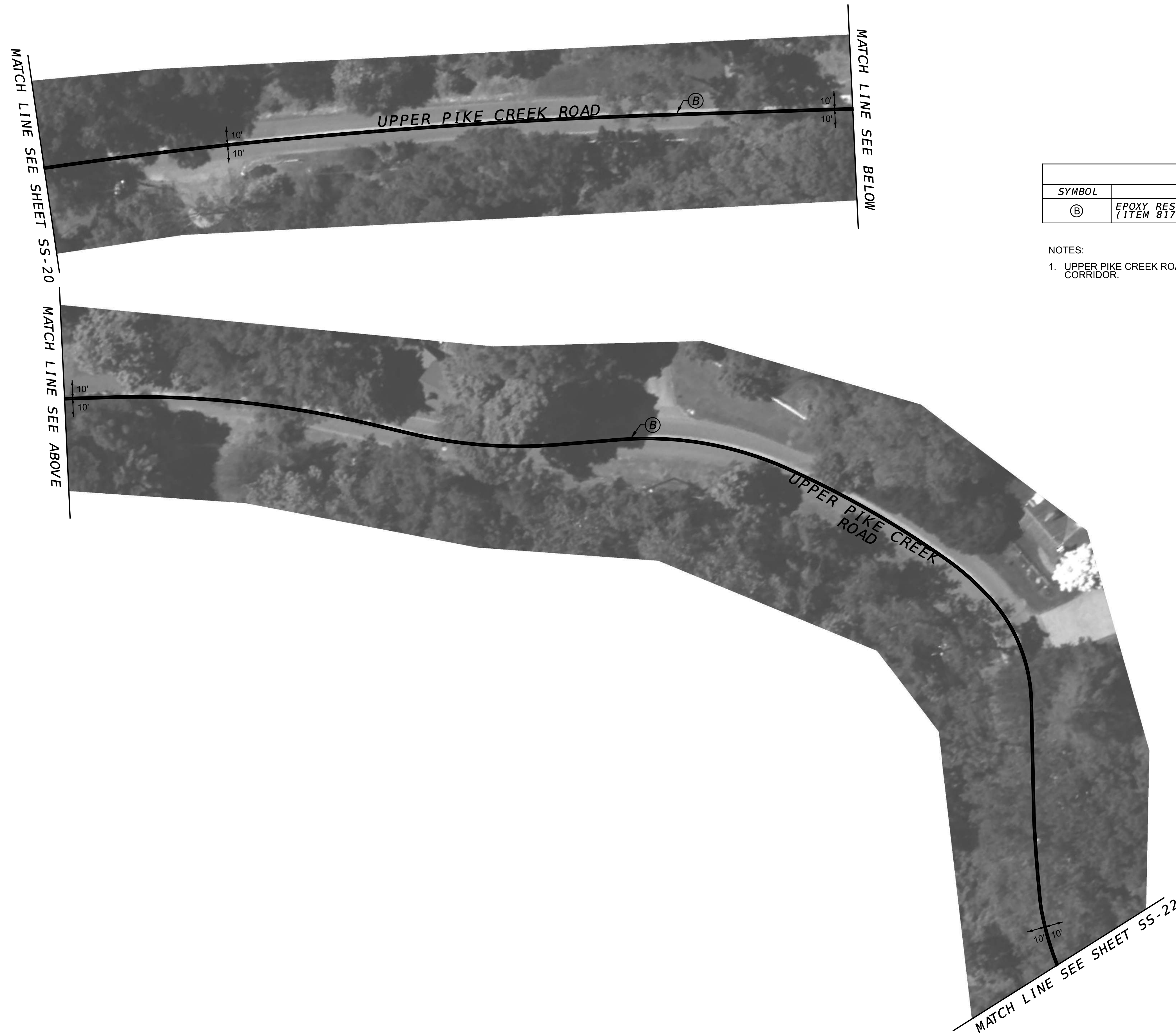
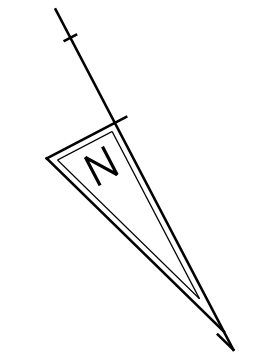


**PAVEMENT & REHABILITATION
 NORTH I, 2024
 UPPER PIKE CREEK ROAD**

CONTRACT	ROAD NO.	N295
T202406101.02	DESIGNED BY: R. KUSY / J. CLEM	
COUNTY	CHECKED BY: M. WAHED	
NEW CASTLE		

SIGNING AND STRIPING PLAN

SS-20
SECTION
JMT
SHEET NO.
36

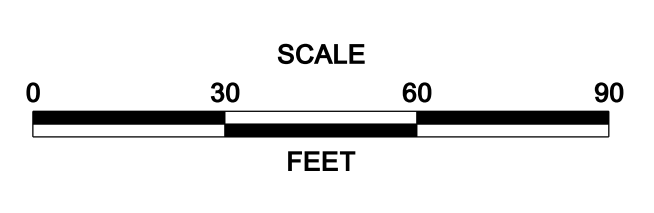


PAVEMENT MARKINGS LEGEND		
SYMBOL		QUANTITY
ⓑ	EPOXY RESIN PAVEMENT STRIPING, YELLOW 6" SOLID DOUBLE (ITEM 817042)	2,750 LF

- NOTES:
- UPPER PIKE CREEK ROAD HAS VARYING LANE WIDTHS THAT CHANGE RAPIDLY THROUGHOUT THE CORRIDOR.

8/8/2024 9:49:50 AM c:\pwworking\jmt\jmt\jmt.com\00948122\SS - Upper Pike Creek Rd_North Star Rd.dgn

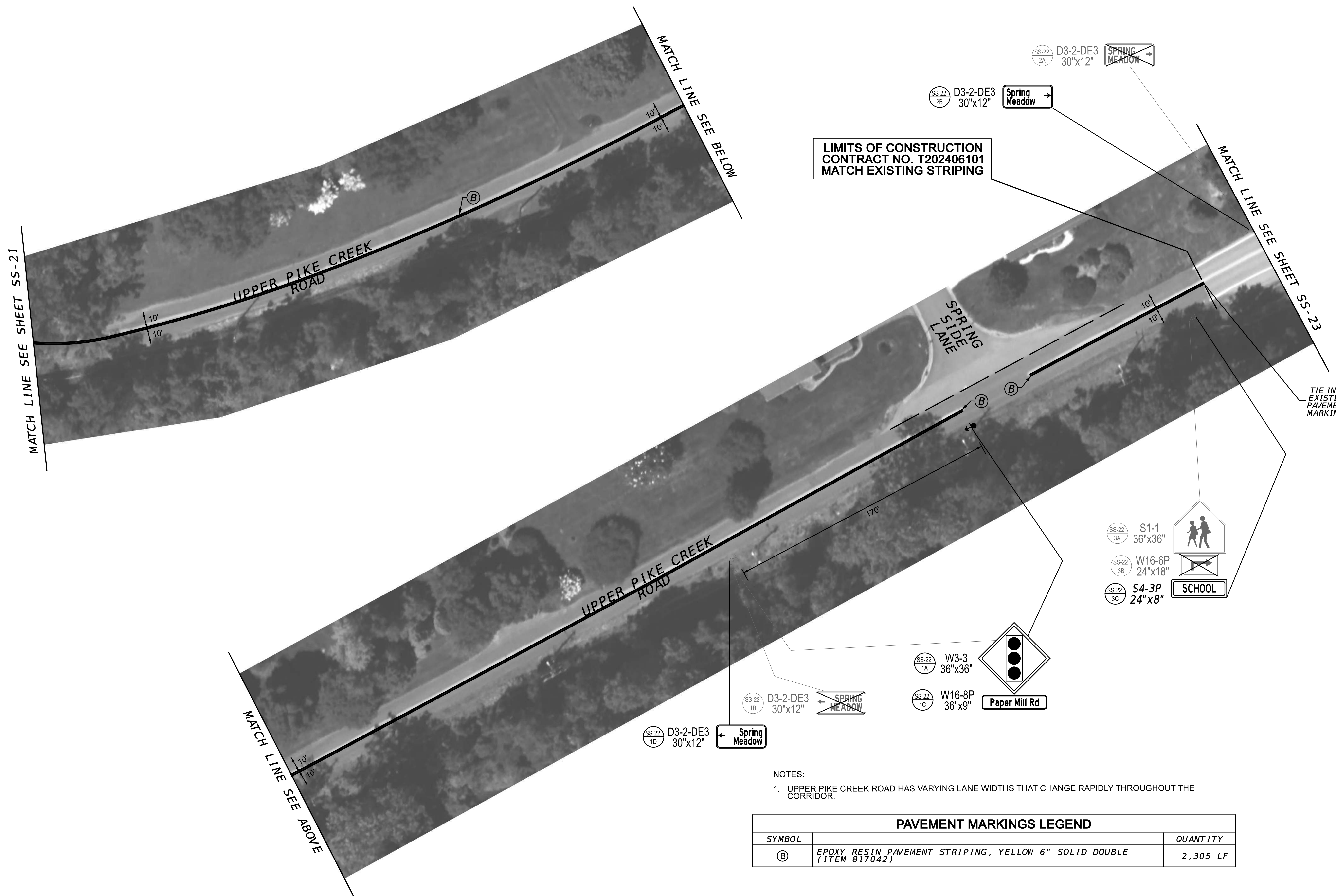
ADDENDUMS / REVISIONS	



**PAVEMENT & REHABILITATION
 NORTH I, 2024
 UPPER PIKE CREEK ROAD**

CONTRACT	ROAD NO.	N295
T202406101.02	DESIGNED BY: R. KUSY / J. CLEM	
COUNTY	CHECKED BY: M. WAHED	
NEW CASTLE		

SIGNING AND STRIPING PLAN	
SECTION	SS-21
JMT	
SHEET NO.	37



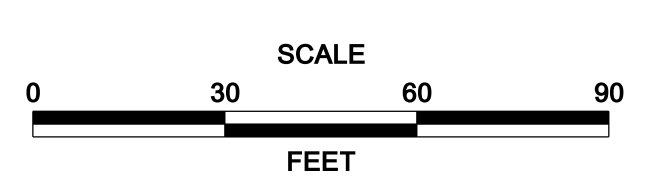
LIMITS OF CONSTRUCTION
 CONTRACT NO. T202406101
 MATCH EXISTING STRIPING

- NOTES:
 1. UPPER PIKE CREEK ROAD HAS VARYING LANE WIDTHS THAT CHANGE RAPIDLY THROUGHOUT THE CORRIDOR.

PAVEMENT MARKINGS LEGEND		
SYMBOL	DESCRIPTION	QUANTITY
(B)	EPOXY RESIN PAVEMENT STRIPING, YELLOW 6" SOLID DOUBLE (ITEM 817042)	2,305 LF

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ADDENDUMS / REVISIONS



**PAVEMENT & REHABILITATION
 NORTH I, 2024
 UPPER PIKE CREEK ROAD**

CONTRACT	T202406101.02	ROAD NO.	N295
COUNTY	NEW CASTLE	DESIGNED BY:	R. KUSY / J. CLEM
		CHECKED BY:	M. WAHED

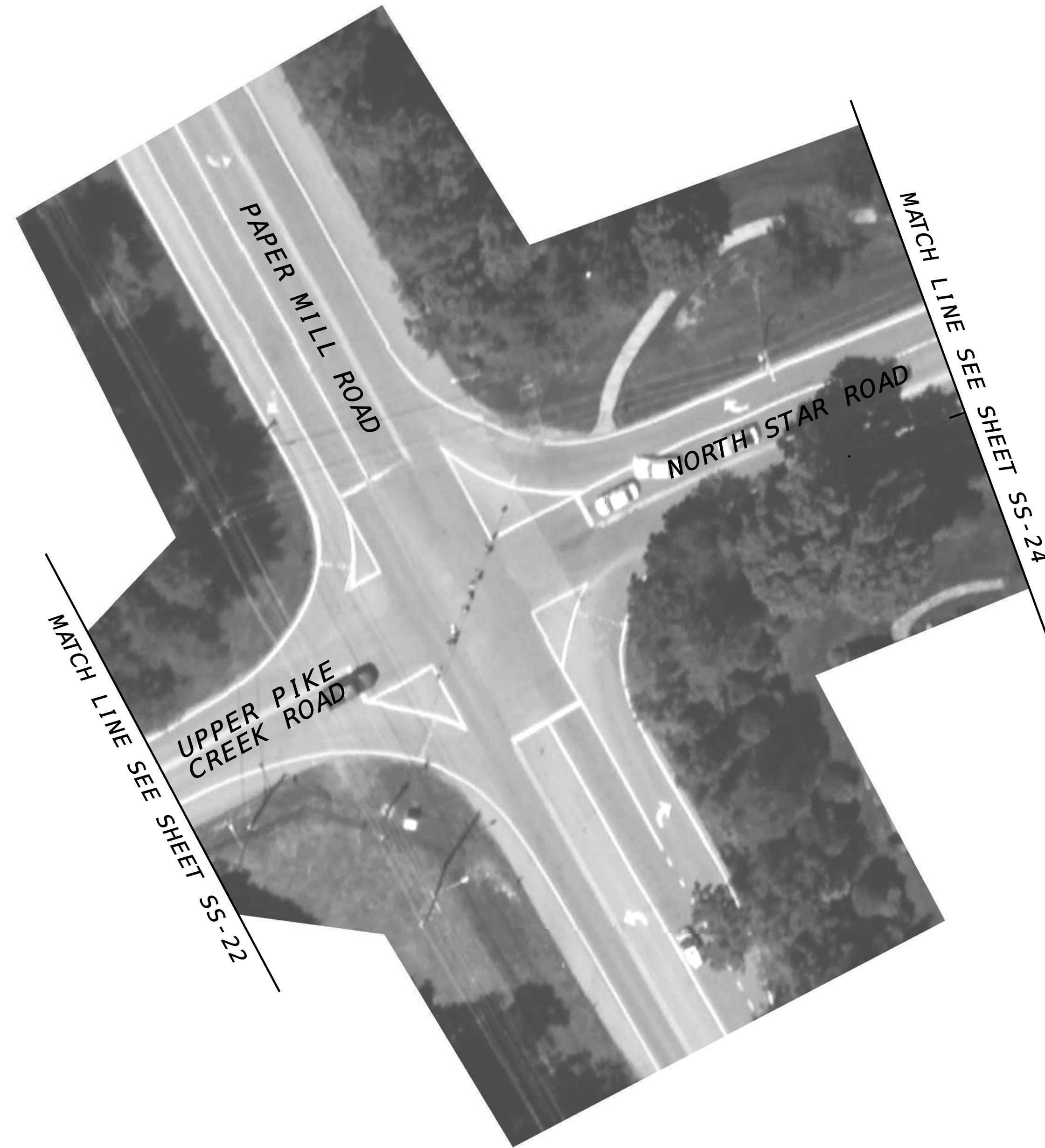
SIGNING AND STRIPING PLAN

SS-22
SECTION
JMT
SHEET NO.
38



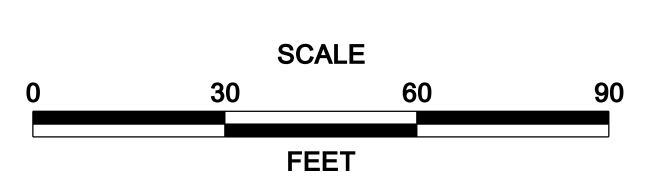
NOTES:

1. UPPER PIKE CREEK ROAD HAS VARYING LANE WIDTHS THAT CHANGE RAPIDLY THROUGHOUT THE CORRIDOR.
2. SEE PAPER MILL ROAD PLAN FOR PROPOSED SIGNING, STRIPING AND SIGNAL WORK.



8/8/2024 9:51:49 AM c:\pwworking\jmt\jmt.com\00948122\SS - Upper Pike Creek Rd_North Star Rd.dgn

ADDENDUMS / REVISIONS	

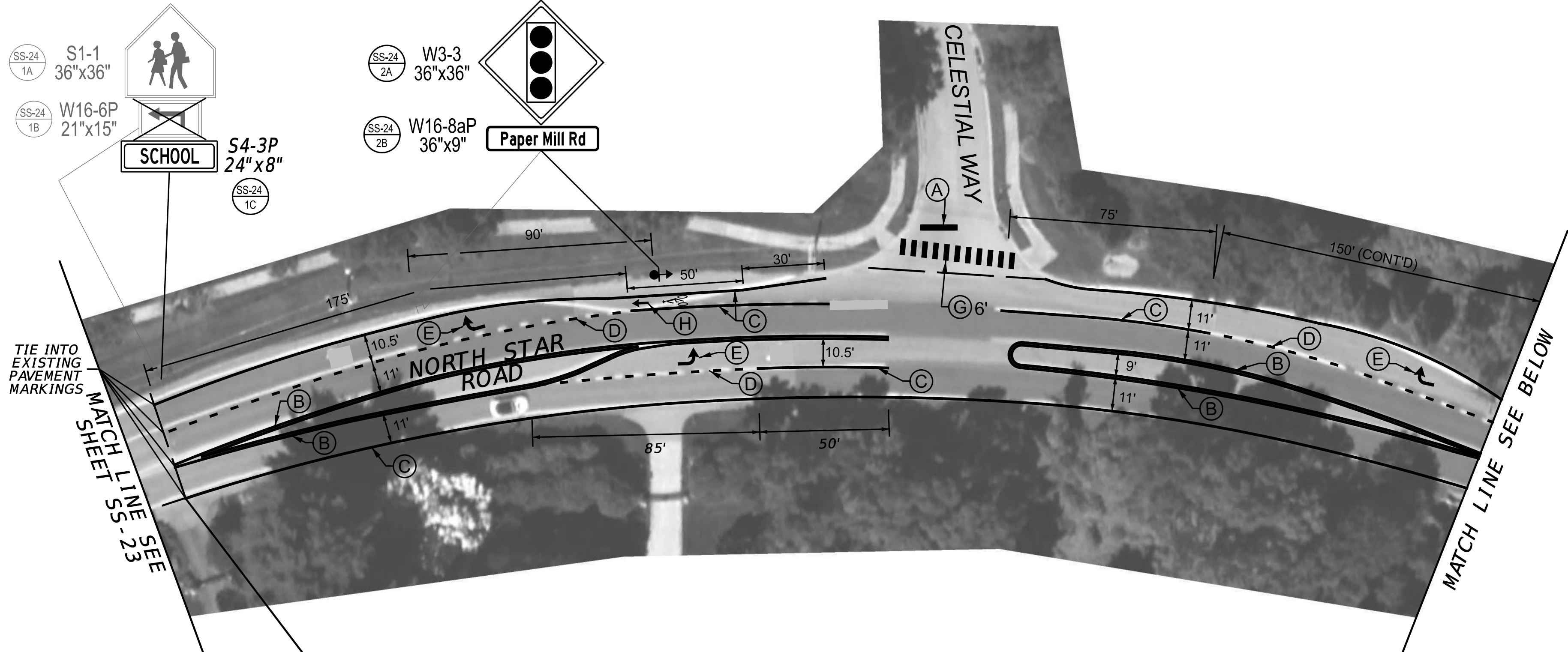


**PAVEMENT & REHABILITATION
NORTH I, 2024
UPPER PIKE CREEK ROAD**

CONTRACT	ROAD NO.	N295
T202406101.02	DESIGNED BY: R. KUSY / J. CLEM	
COUNTY	CHECKED BY: M. WAHED	
NEW CASTLE		

SIGNING AND STRIPING PLAN

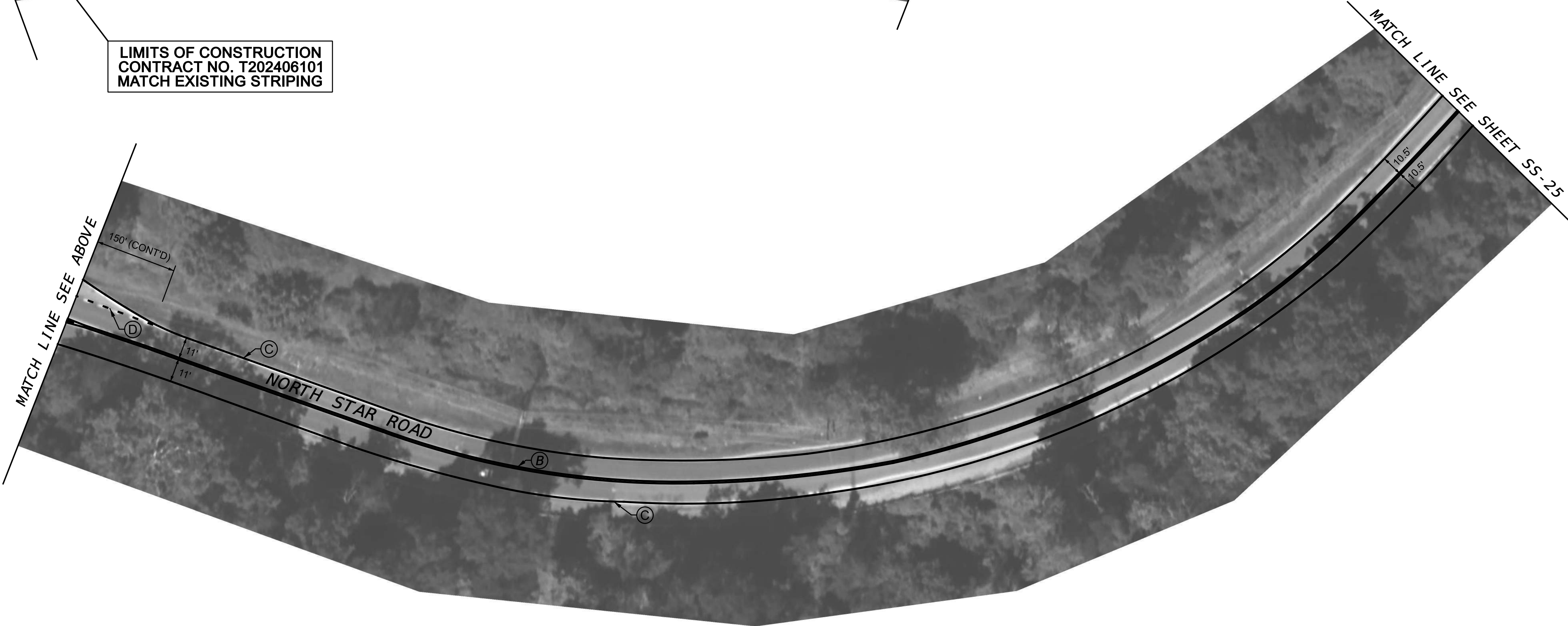
SS-23
SECTION
JMT
SHEET NO.
39



LIMITS OF CONSTRUCTION
 CONTRACT NO. T202406101
 MATCH EXISTING STRIPING

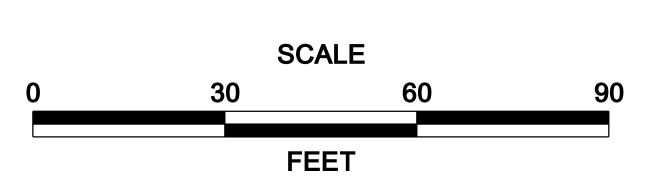
PAVEMENT MARKINGS LEGEND		
SYMBOL	DESCRIPTION	QUANTITY
(A)	ALKYD-THERMOPLASTIC PAVEMENT STRIPING, WHITE 16" SOLID (ITEM 817002)	19 SF
(B)	EPOXY RESIN PAVEMENT STRIPING, YELLOW 6" SOLID DOUBLE (ITEM 817042)	3,480 LF
(C)	EPOXY RESIN PAVEMENT STRIPING, WHITE 6" SOLID (ITEM 817042)	2,685 LF
(D)	EPOXY RESIN PAVEMENT STRIPING, WHITE 6" DOTTED - 2' LINE & 6' GAP (ITEM 817042)	120 LF
(E)	ALKYD-THERMOPLASTIC PAVEMENT STRIPING, WHITE SYMBOL/LEGEND (ITEM 817002)	51 SF
(G)	ALKYD-THERMOPLASTIC PAVEMENT STRIPING, WHITE 24" SOLID (ITEM 817002)	145 SF
(H)	PREFORMED RETROREFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS WHITE, BIKE SYMBOL (ITEM 817015)	1 EA

- NOTES:
- NORTH STAR ROAD HAS VARYING LANE WIDTHS THAT CHANGE RAPIDLY THROUGHOUT THE CORRIDOR.



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ADDENDUMS / REVISIONS



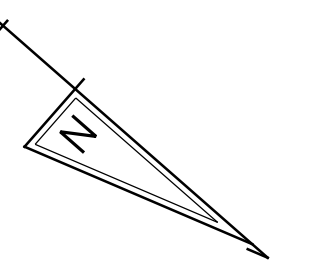
**PAVEMENT & REHABILITATION
 NORTH 1, 2024
 NORTH STAR ROAD**

CONTRACT	ROAD NO.	N295
T202406101.02	DESIGNED BY:	R. KUSY / J. CLEM
COUNTY	CHECKED BY:	M. WAHED
NEW CASTLE		

SIGNING AND STRIPING PLAN	
SHEET NO.	40

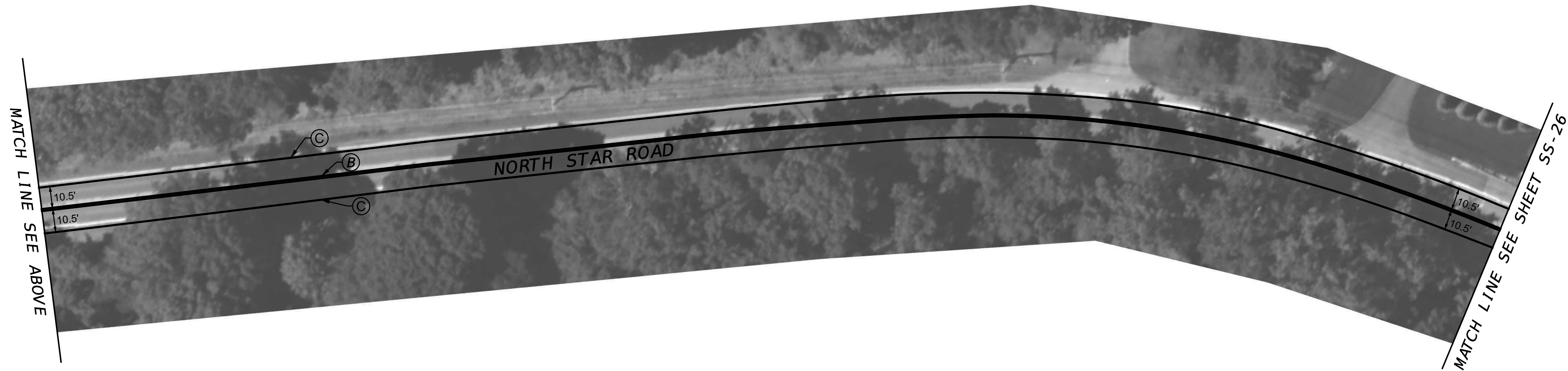
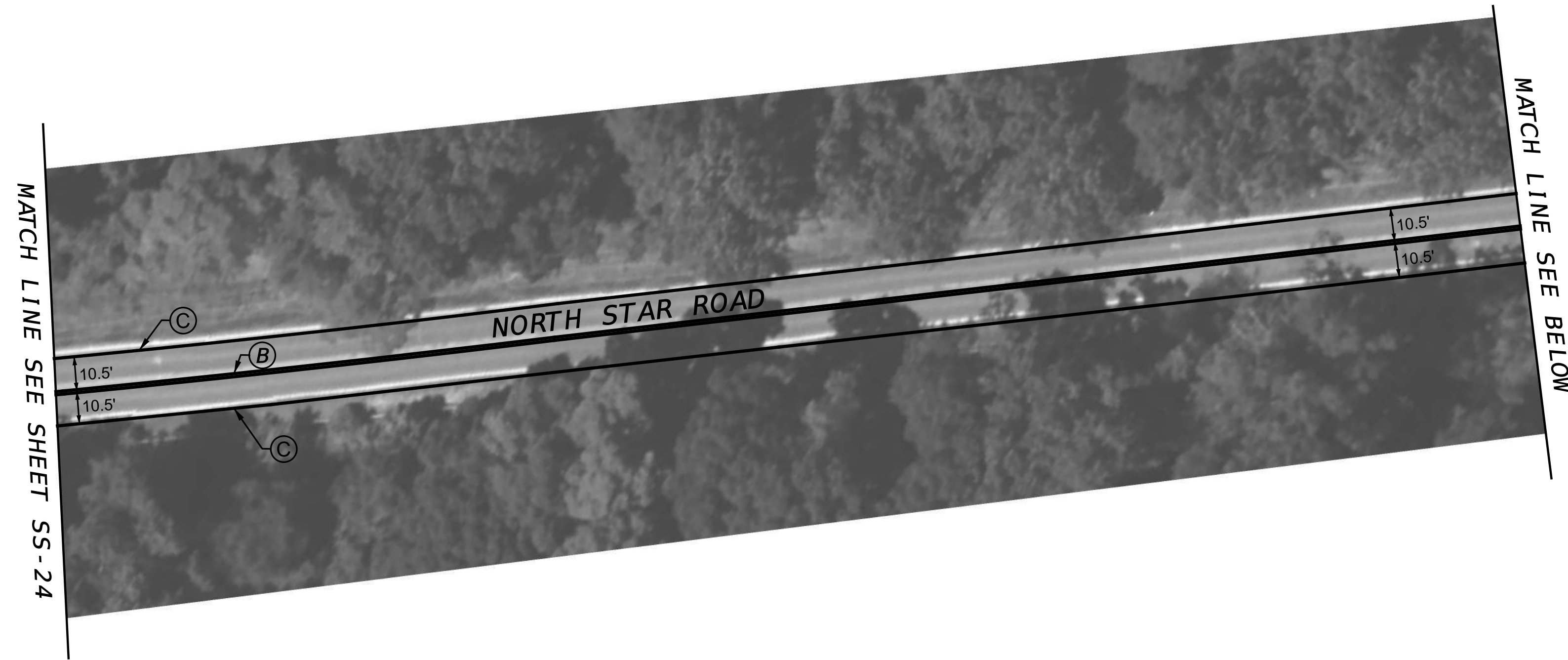
SS-24

PAVEMENT MARKINGS LEGEND		
SYMBOL		QUANTITY
ⓑ	EPOXY RESIN PAVEMENT STRIPING, YELLOW 6" SOLID DOUBLE (ITEM 817042)	2,590 LF
ⓒ	EPOXY RESIN PAVEMENT STRIPING, WHITE 6" SOLID (ITEM 817042)	2,590 LF

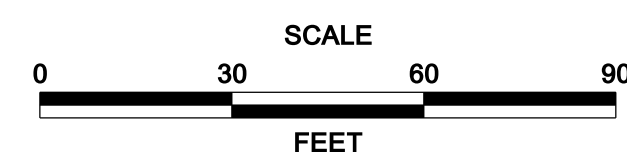


NOTES:

1. NORTH STAR ROAD HAS VARYING LANE WIDTHS THAT CHANGE RAPIDLY THROUGHOUT THE CORRIDOR.



ADDENDUMS / REVISIONS

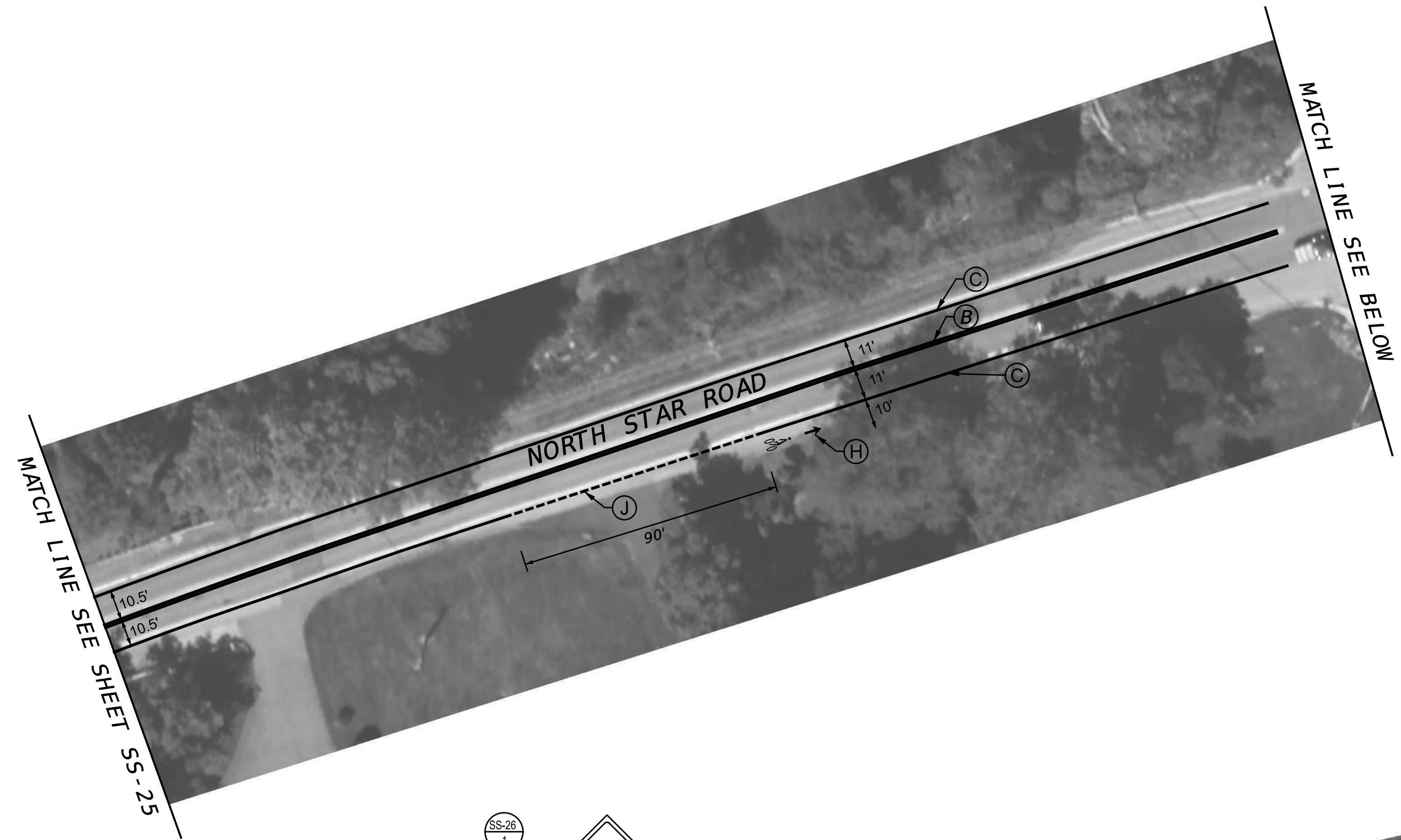


**PAVEMENT & REHABILITATION
NORTH 1, 2024
NORTH STAR ROAD**

CONTRACT	ROAD NO.	N295
T202406101.02	DESIGNED BY: R. KUSY / J. CLEM	
COUNTY	CHECKED BY: M. WAHED	
NEW CASTLE		

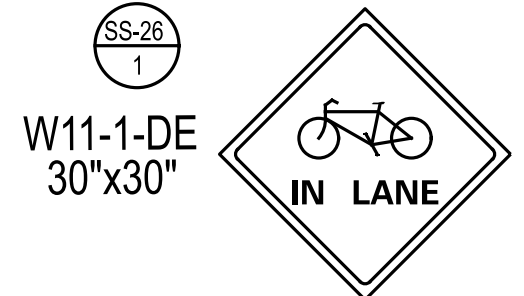
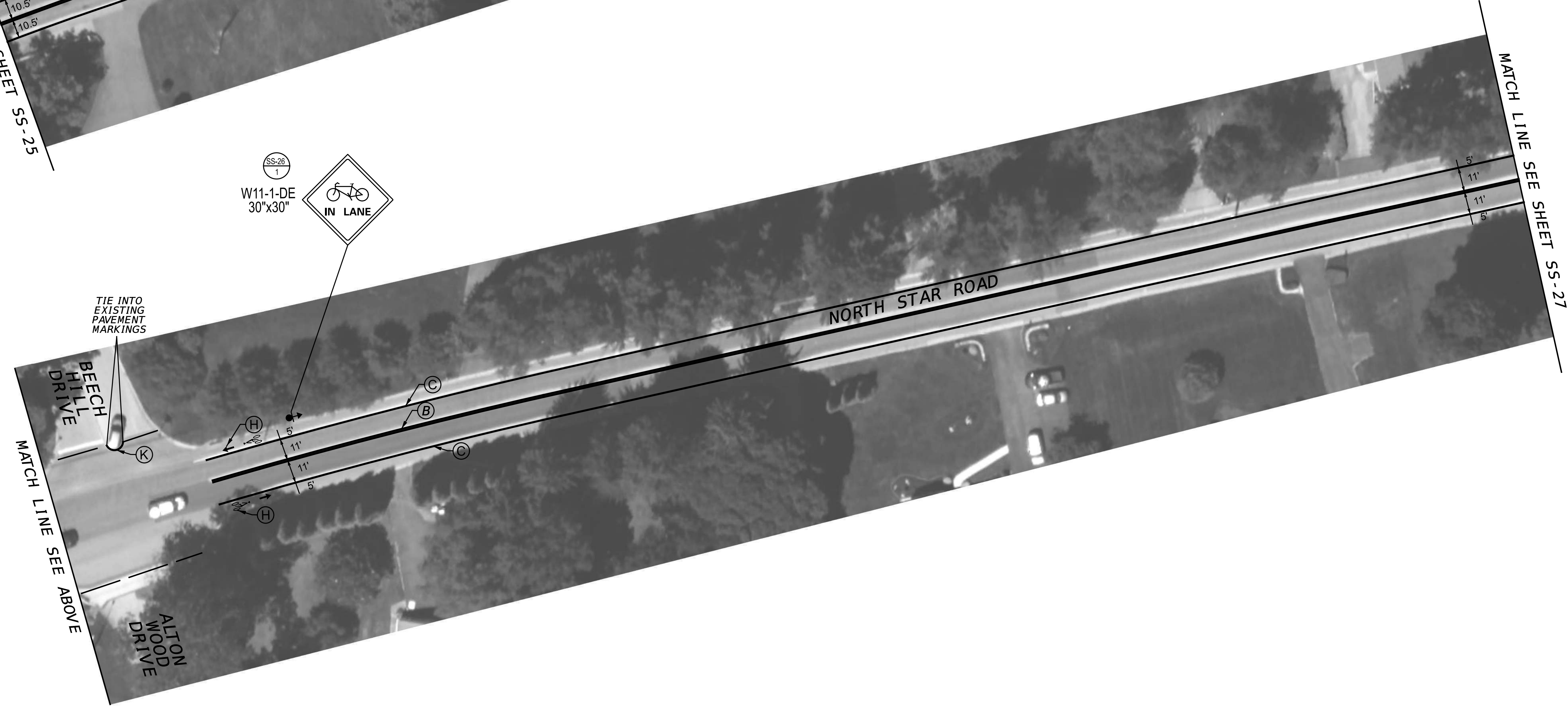
**SIGNING AND
STRIPING PLAN**

SS-25
SECTION
JMT
SHEET NO.
41



PAVEMENT MARKINGS LEGEND		
SYMBOL	DESCRIPTION	QUANTITY
(B)	EPOXY RESIN PAVEMENT STRIPING, YELLOW 6" SOLID DOUBLE (ITEM 817042)	2,415 LF
(C)	EPOXY RESIN PAVEMENT STRIPING, WHITE 6" SOLID (ITEM 817042)	2,385 LF
(H)	PERFORMED RETROREFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS WHITE, BIKE SYMBOL (ITEM 817015)	3 EA
(J)	EPOXY RESIN PAVEMENT STRIPING, WHITE 6" DOTTED - 2' LINE & 2' GAP (ITEM 817042)	25 LF
(K)	EPOXY RESIN PAVEMENT STRIPING, YELLOW 6" SOLID (ITEM 817042)	15 LF

NOTES:
 1. NORTH STAR ROAD HAS VARYING LANE WIDTHS THAT CHANGE RAPIDLY THROUGHOUT THE CORRIDOR.



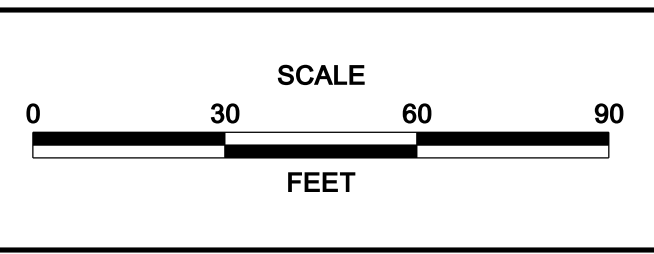
TIE INTO EXISTING PAVEMENT MARKINGS

BEECH HILL DRIVE

ALTON WOOD DRIVE

8/8/2024 9:55:54 AM c:\pwworking\jmt\jmt\jmt.com\0948122155 - Upper Pike Creek Rd_North Star Rd.dgn

ADDENDUMS / REVISIONS



**PAVEMENT & REHABILITATION
 NORTH 1, 2024
 NORTH STAR ROAD**

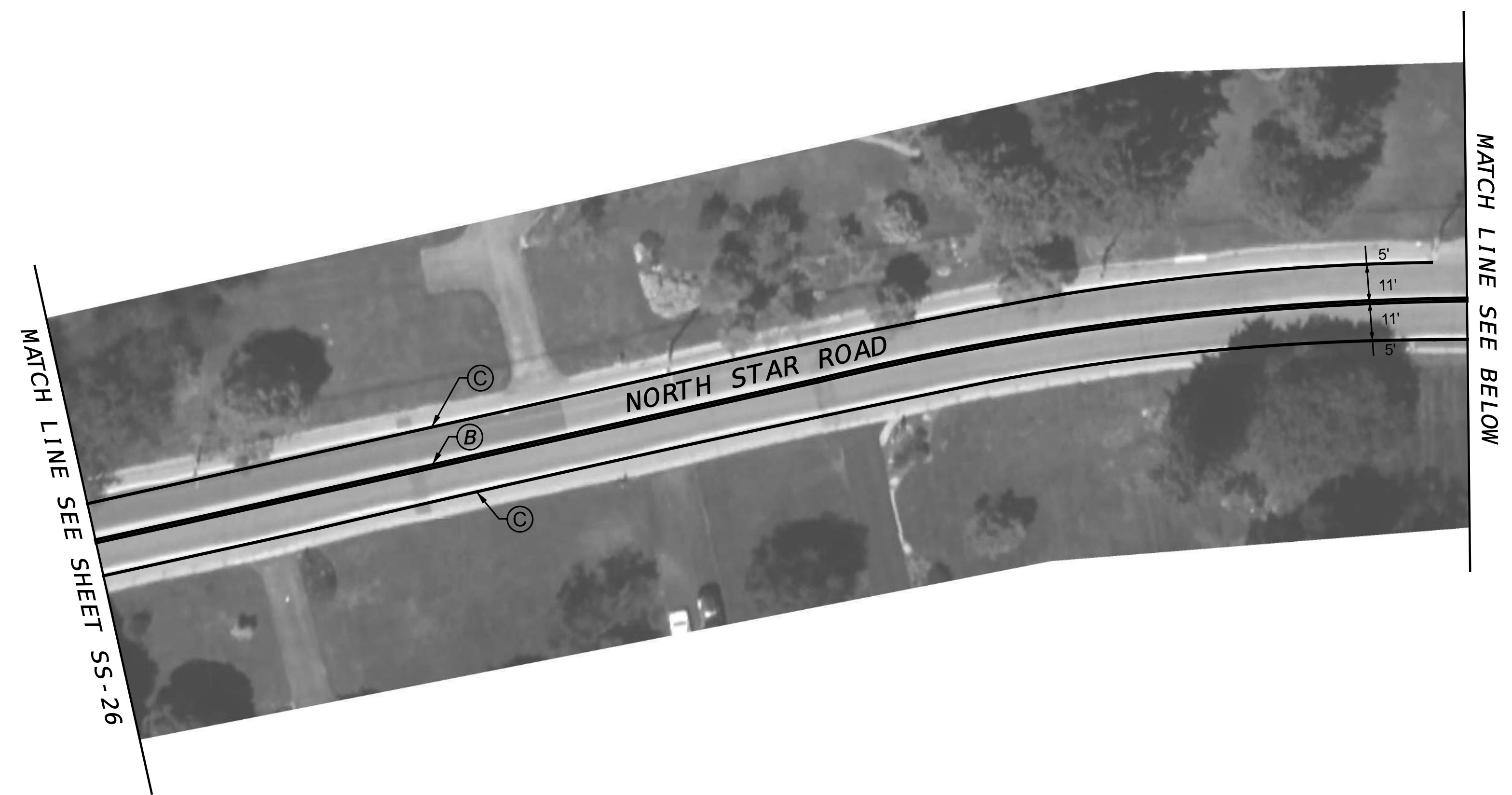
CONTRACT	ROAD NO.	N295
T202406101.02	DESIGNED BY:	R. KUSY / J. CLEM
COUNTY	CHECKED BY:	M. WAHED
NEW CASTLE		

SIGNING AND STRIPING PLAN	SECTION	SS-26
	JMT	
	SHEET NO.	42



PAVEMENT MARKINGS LEGEND		
SYMBOL	DESCRIPTION	QUANTITY
ⓑ	EPOXY RESIN PAVEMENT STRIPING, YELLOW 6" SOLID DOUBLE (ITEM 817042)	2,515 LF
ⓒ	EPOXY RESIN PAVEMENT STRIPING, WHITE 6" SOLID (ITEM 817042)	2,520 LF

NOTES:
 1. NORTH STAR ROAD HAS VARYING LANE WIDTHS THAT CHANGE RAPIDLY THROUGHOUT THE CORRIDOR.



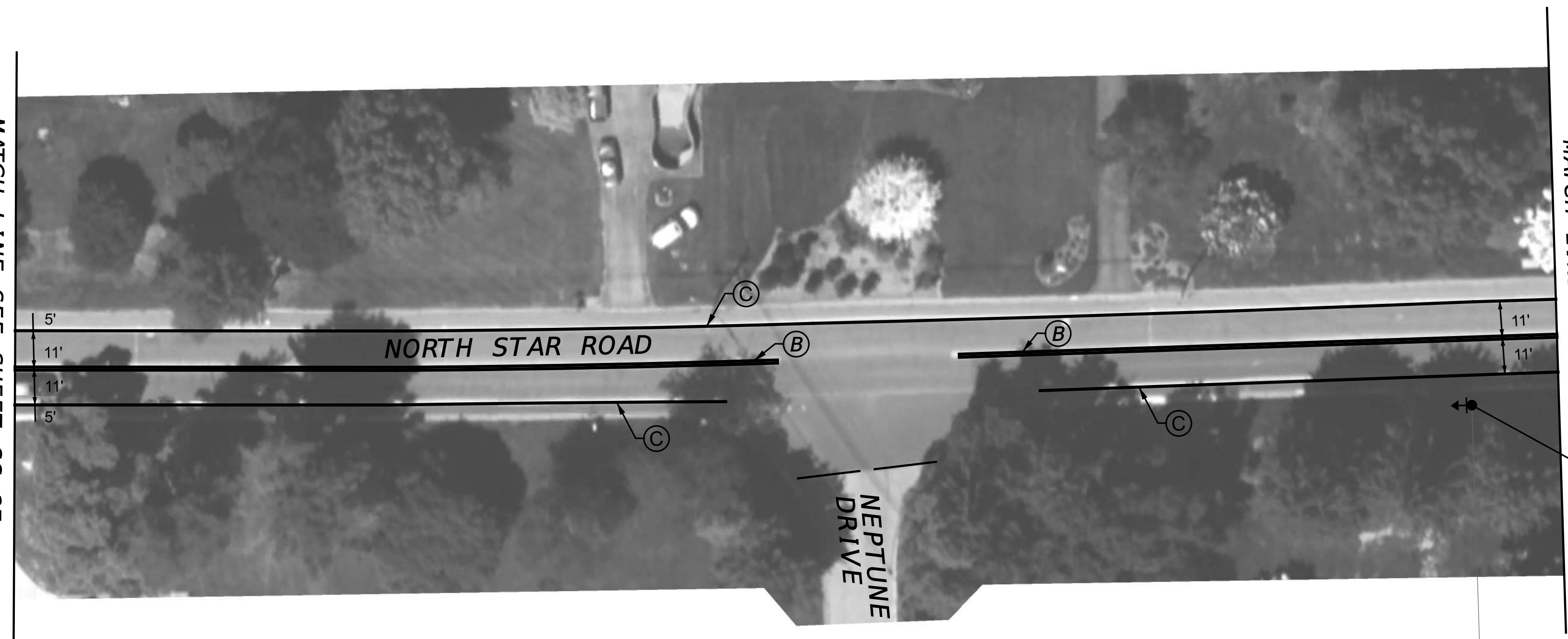
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ADDENDUMS / REVISIONS		SCALE FEET	PAVEMENT & REHABILITATION NORTH 1, 2024 NORTH STAR ROAD	CONTRACT T202406101.02	ROAD NO. N295	SIGNING AND STRIPING PLAN	SECTION JMT
				COUNTY NEW CASTLE	DESIGNED BY: R. KUSY / J. CLEM CHECKED BY: M. WAHED		SHEET NO. 43

SS-27



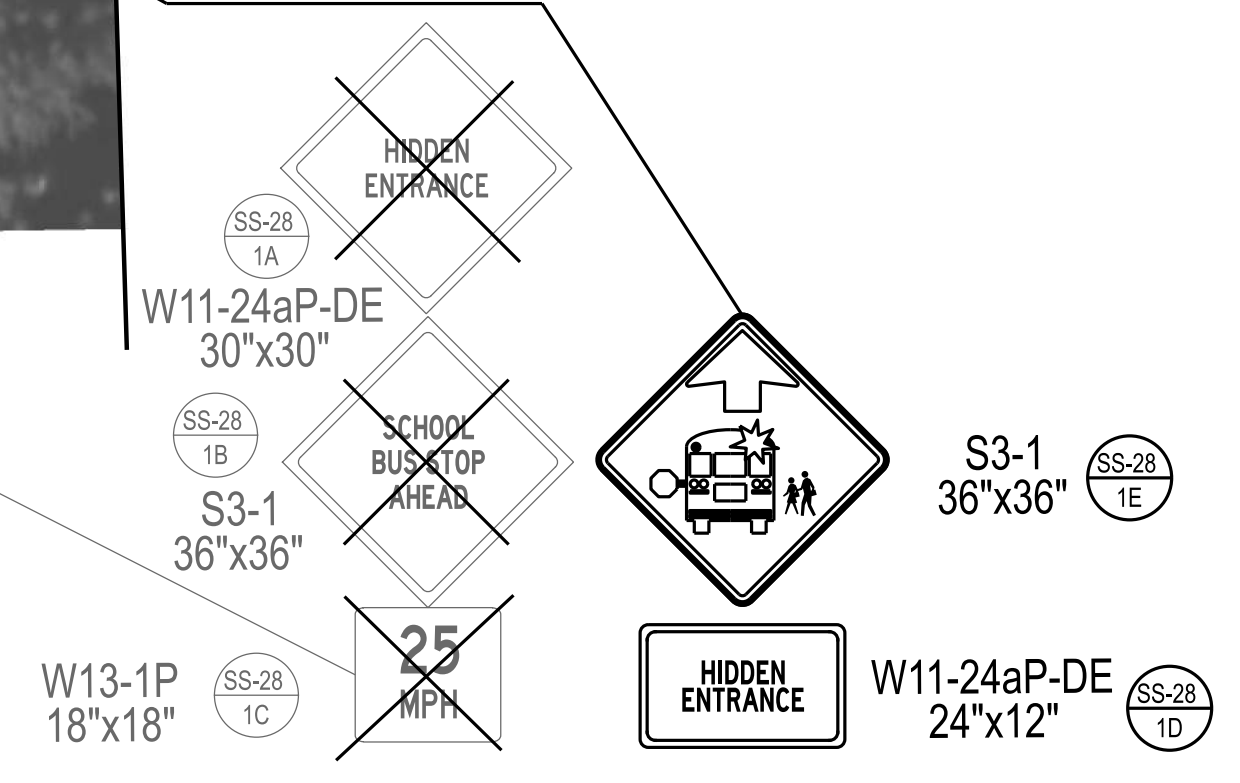
MATCH LINE SEE SHEET SS-27



MATCH LINE SEE BELOW

PAVEMENT MARKINGS LEGEND		
SYMBOL	DESCRIPTION	QUANTITY
(B)	EPOXY RESIN PAVEMENT STRIPING, YELLOW 6" SOLID DOUBLE (ITEM 817042)	2,270 LF
(C)	EPOXY RESIN PAVEMENT STRIPING, WHITE 6" SOLID (ITEM 817042)	2,735 LF
(D)	EPOXY RESIN PAVEMENT STRIPING, WHITE 6" DOTTED - 2' LINE & 6' GAP (ITEM 817042)	15 LF

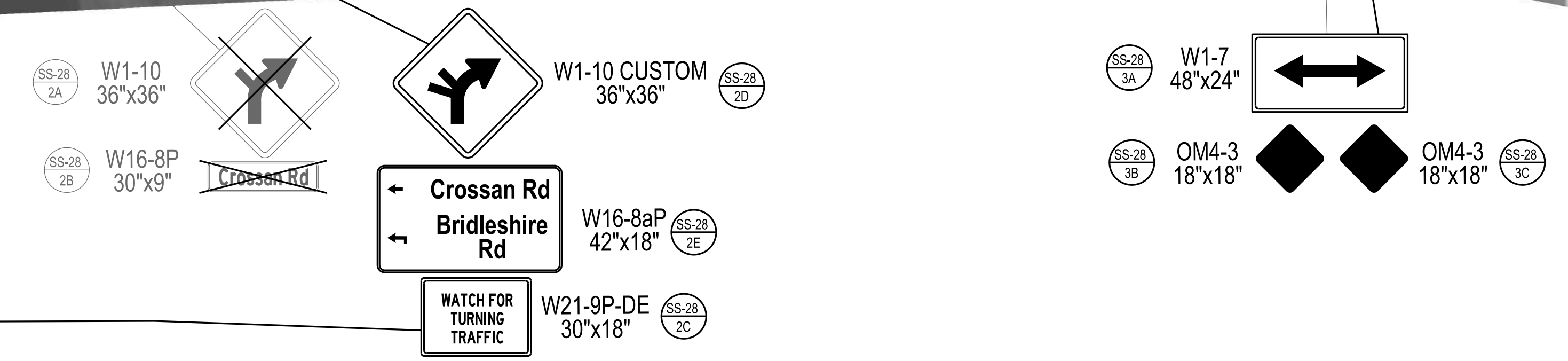
- NOTES:
- NORTH STAR ROAD HAS VARYING LANE WIDTHS THAT CHANGE RAPIDLY THROUGHOUT THE CORRIDOR.
 - SIGNS 2C, 2D AND 2E SHALL BE FLUORESCENT YELLOW SIGNS.
 - SIGNS 1E AND 1D SHALL HAVE A FLUORESCENT YELLOW GREEN BACKGROUND.



MATCH LINE SEE ABOVE

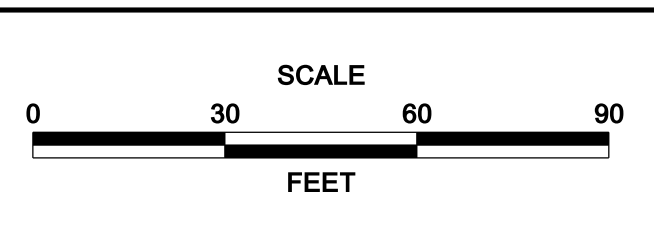


MATCH LINE SEE SHEET SS-29



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ADDENDUMS / REVISIONS

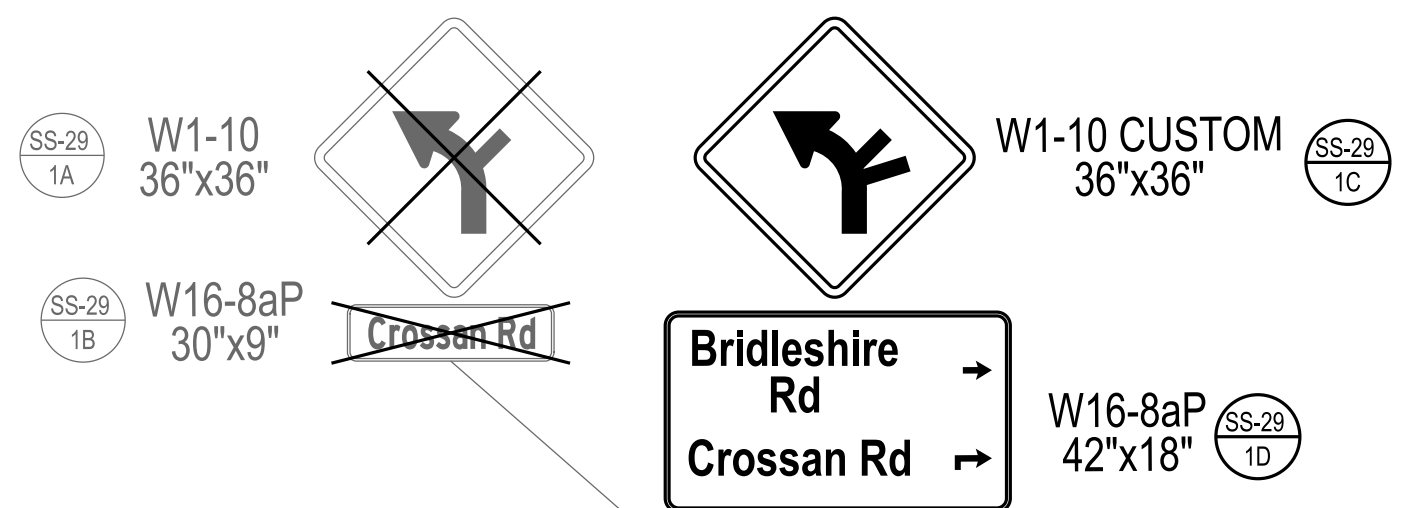


**PAVEMENT & REHABILITATION
NORTH 1, 2024
NORTH STAR ROAD**

CONTRACT	ROAD NO.	N295
T202406101.02	DESIGNED BY:	R. KUSY / J. CLEM
COUNTY	CHECKED BY:	M. WAHED
NEW CASTLE		

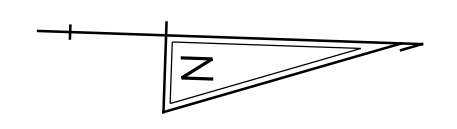
SIGNING AND STRIPING PLAN
SECTION
JMT
SHEET NO.
44

SS-28



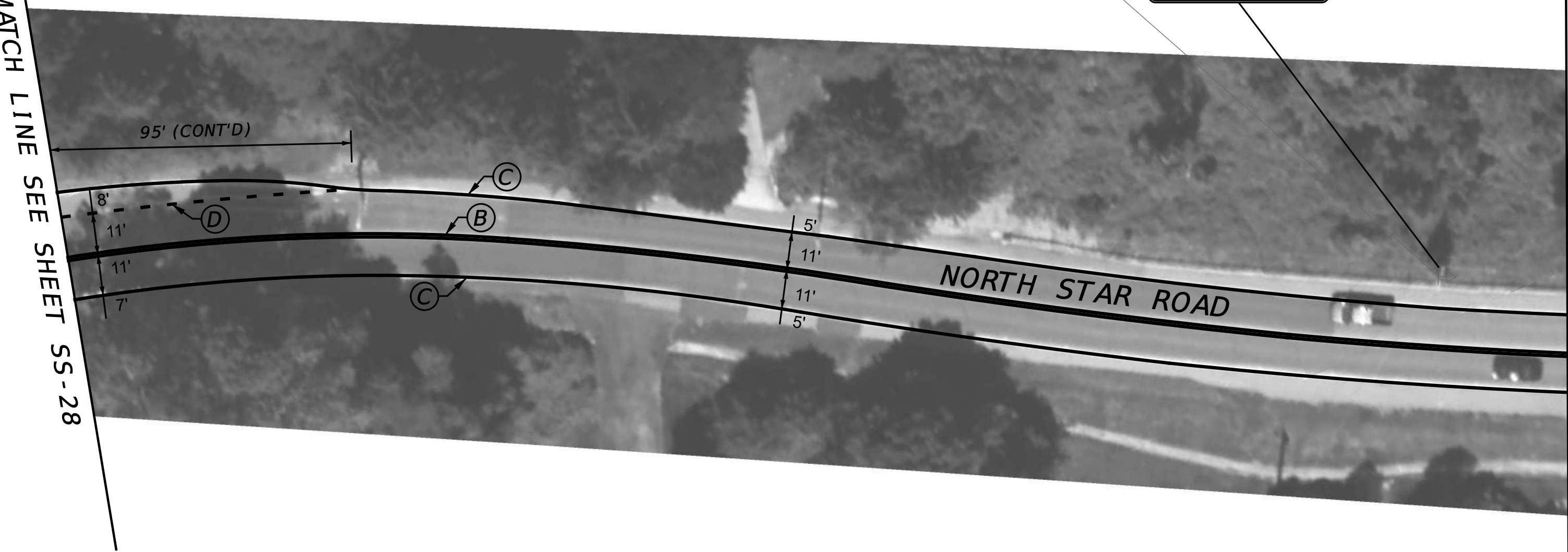
PAVEMENT MARKINGS LEGEND		
SYMBOL	DESCRIPTION	QUANTITY
(B)	EPOXY RESIN PAVEMENT STRIPING, YELLOW 6" SOLID DOUBLE (ITEM 817042)	2,170 LF
(C)	EPOXY RESIN PAVEMENT STRIPING, WHITE 6" SOLID (ITEM 817042)	2,595 LF
(D)	EPOXY RESIN PAVEMENT STRIPING, WHITE 6" DOTTED - 2' LINE & 6' GAP (ITEM 817042)	90 LF
(E)	ALKYD-THERMOPLASTIC PAVEMENT STRIPING, WHITE SYMBOL/LEGEND (ITEM 817002)	18 SF
(J)	EPOXY RESIN PAVEMENT STRIPING, WHITE 6" DOTTED - 2' LINE & 2' GAP (ITEM 817042)	15 LF
(H)	PREFORMED RETROREFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS WHITE, BIKE SYMBOL (ITEM 817015)	1 EA

- NOTES:
- NORTH STAR ROAD HAS VARYING LANE WIDTHS THAT CHANGE RAPIDLY THROUGHOUT THE CORRIDOR.
 - SIGNS 1C AND 1D SHALL BE FLUORESCENT YELLOW SIGNS.



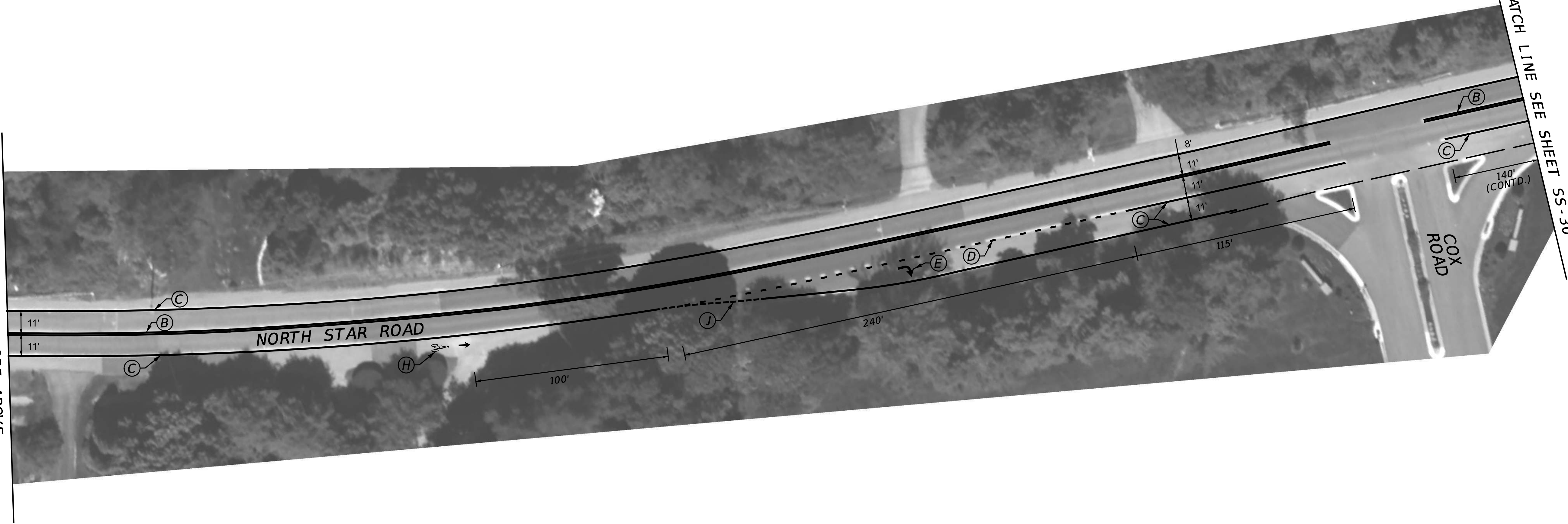
MATCH LINE SEE SHEET SS-28

MATCH LINE SEE BELOW



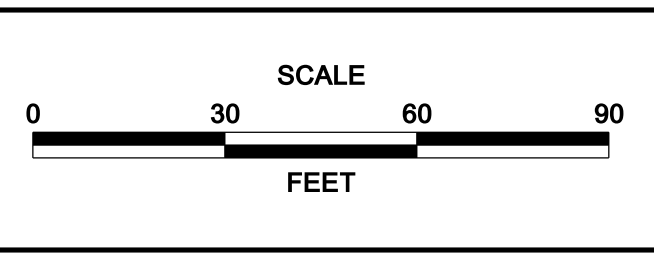
MATCH LINE SEE ABOVE

MATCH LINE SEE SHEET SS-30



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ADDENDUMS / REVISIONS

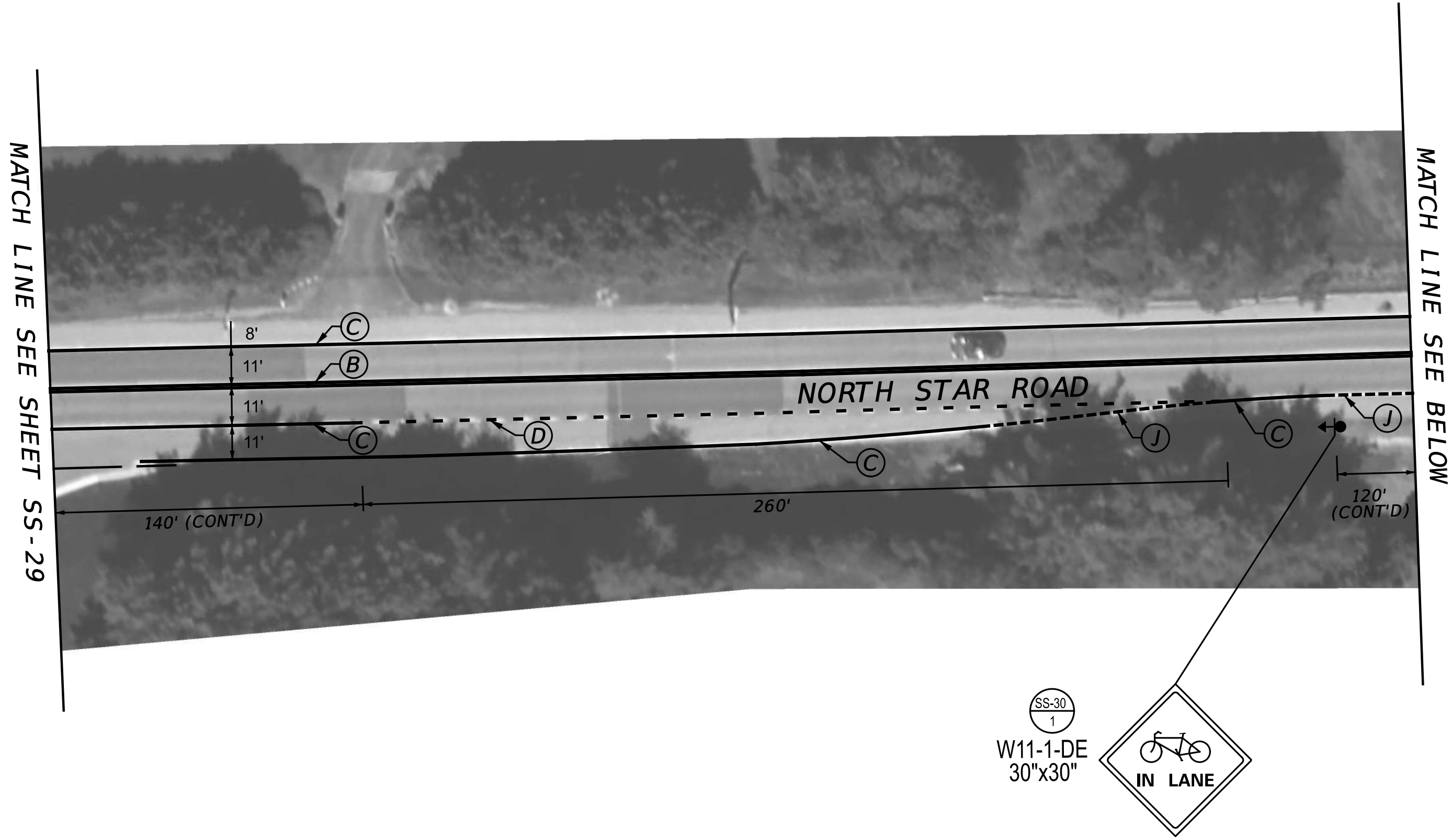
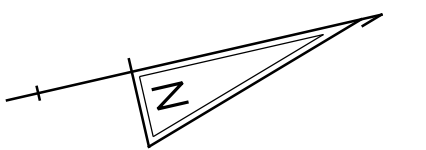


**PAVEMENT & REHABILITATION
NORTH 1, 2024
NORTH STAR ROAD**

CONTRACT	ROAD NO.	N295
T202406101.02	DESIGNED BY:	R. KUSY / J. CLEM
COUNTY	CHECKED BY:	M. WAHED
NEW CASTLE		

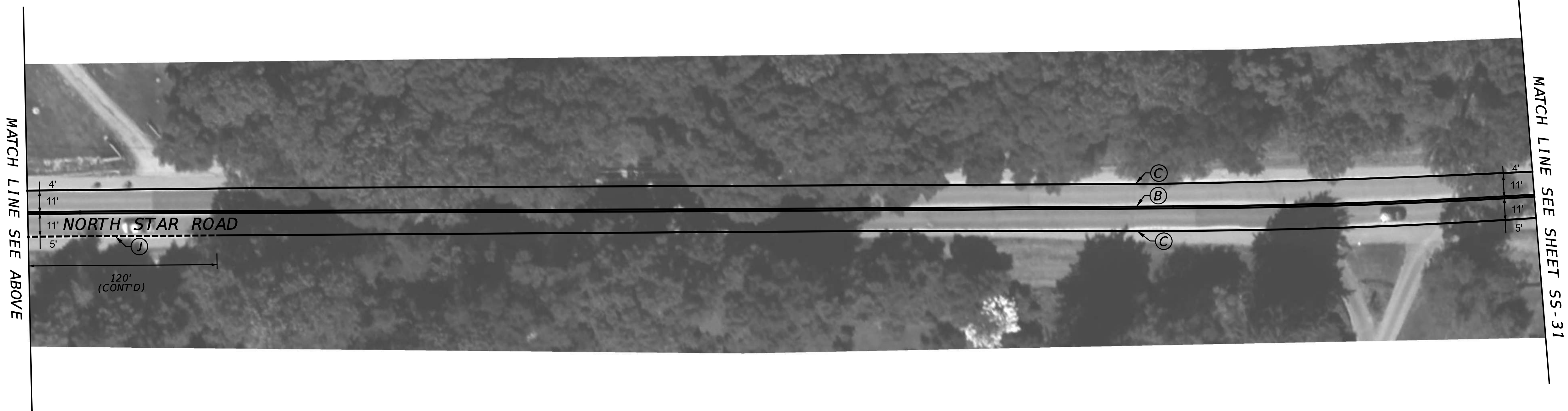
SIGNING AND STRIPING PLAN

SS-29
SECTION
JMT
SHEET NO.
45



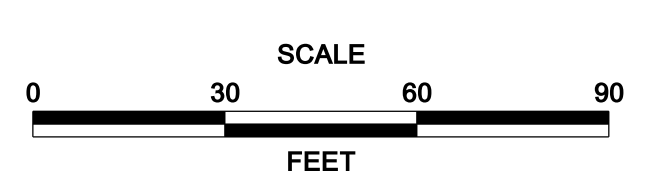
PAVEMENT MARKINGS LEGEND		
SYMBOL		QUANTITY
ⓑ	EPOXY RESIN PAVEMENT STRIPING, YELLOW 6" SOLID DOUBLE (ITEM 817042)	2,710 LF
ⓒ	EPOXY RESIN PAVEMENT STRIPING, WHITE 6" SOLID (ITEM 817042)	2,550 LF
ⓓ	EPOXY RESIN PAVEMENT STRIPING, WHITE 6" DOTTED - 2' LINE & 6' GAP (ITEM 817042)	75 LF
Ⓣ	EPOXY RESIN PAVEMENT STRIPING, WHITE 6" DOTTED - 2' LINE & 2' GAP (ITEM 817042)	55 LF

NOTES:
 1. NORTH STAR ROAD HAS VARYING LANE WIDTHS THAT CHANGE RAPIDLY THROUGHOUT THE CORRIDOR.



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ADDENDUMS / REVISIONS



**PAVEMENT & REHABILITATION
 NORTH 1, 2024
 NORTH STAR ROAD**

CONTRACT	ROAD NO.	N295
T202406101.02	DESIGNED BY:	R. KUSY / J. CLEM
COUNTY	CHECKED BY:	M. WAHED
NEW CASTLE		

SIGNING AND STRIPING PLAN	SECTION
	JMT
	SHEET NO.
	46

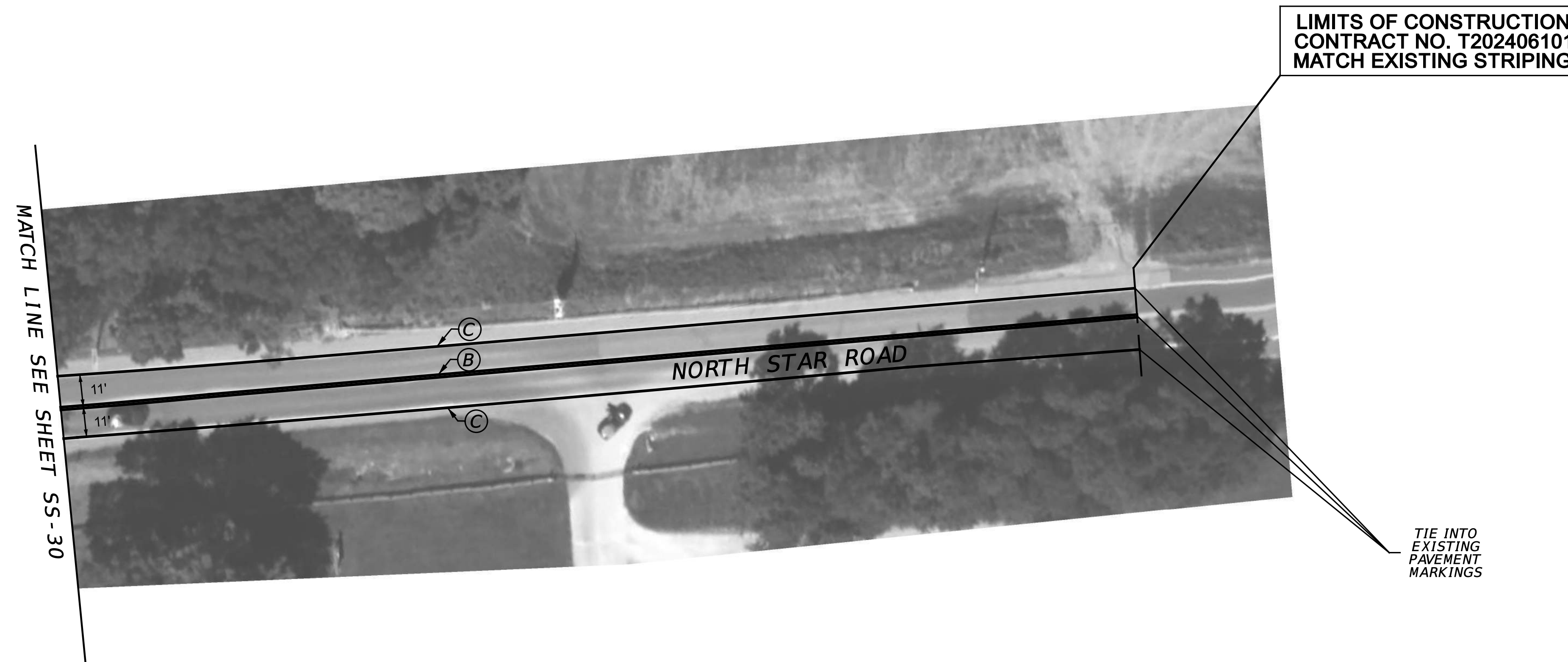
SS-30
SECTION
JMT
SHEET NO.
46



PAVEMENT MARKINGS LEGEND		
SYMBOL	DESCRIPTION	QUANTITY
Ⓟ	EPOXY RESIN PAVEMENT STRIPING, YELLOW 6" SOLID DOUBLE (ITEM 817042)	880 LF
Ⓢ	EPOXY RESIN PAVEMENT STRIPING, WHITE 6" SOLID (ITEM 817042)	880 LF

NOTES:

- NORTH STAR ROAD HAS VARYING LANE WIDTHS THAT CHANGE RAPIDLY THROUGHOUT THE CORRIDOR.



8/8/2024 10:05:30 AM
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ADDENDUMS / REVISIONS		SCALE FEET	PAVEMENT & REHABILITATION NORTH 1, 2024 NORTH STAR ROAD	CONTRACT	ROAD NO.	N295	SIGNING AND STRIPING PLAN	SECTION
				T202406101.02	DESIGNED BY: R. KUSY / J. CLEM			JMT
		COUNTY	NEW CASTLE	CHECKED BY: M. WAHED		SHEET NO.		47

SS-31

PERMANENT SIGN SCHEDULE - UPPER PIKE CREEK ROAD

SHEET NO.	PLAN IDENTIFIER	SIGN DESIGNATION	QTY.	DESCRIPTION	SIGN WIDTH (IN)	SIGN HEIGHT (IN)	X13 / ITEM 818001 FLAT SHEET ALUMINUM TYPE IV RETROREFLECTIVE SHEETING (SF)	X14 / ITEM 818003 FLAT SHEET ALUMINUM TYPE XI RETROREFLECTIVE SHEETING (SF)	X15 / ITEM 819512 SIGN POST REFLECTIVE PANEL (EA)	ITEM 819018 INSTALLATION OR REMOVAL OF TRAFFIC SIGN(S) ON SINGLE POST (EACH)			ITEM 819019 INSTALLATION OR REMOVAL OF TRAFFIC SIGN(S) ON MULTIPLE SIGN POSTS (SF)			POST INSTALLATION TYPE	X16 / ITEM 819011 12 SIGNPOSTS W/ BASEPOSTS & HARDWARE (EACH)	X17 / ITEM 819023 15 SIGNPOSTS W/ BASEPOSTS & HARDWARE (EACH)	ITEM 819016 4" HOLE, 0-6" (EACH)	ITEM 819017 4" HOLE, >6" (EACH)	SIGN DISPOSITION	X14A FLAT SHEET ALUMINUM SIGN PANELS (TYPE XI SHEETING) - SIGNS ON POLES, SPAN WIRES, MAST ARMS (TRAFFIC SUPPLY)	ITEM 822500 INSTALL OVERHEAD SIGN (SF) ON SIGNAL POLES TRAFFIC CONTRACTOR ITEM, EXCEPT FOR PILOT PROJECTS	ITEM 823003 REMOVAL OF SIGN ON SPAN WIRE OR MAST ARM (EA) TRAFFIC CONTRACTOR ITEM, EXCEPT FOR PILOT PROJECTS	ITEM 823001 INSTALLATION OF SIGN ON SPAN WIRE OR MAST ARM (SF) TRAFFIC CONTRACTOR ITEM, EXCEPT FOR PILOT PROJECTS	REMARKS	
										SIGN DISPOSITION	REMOVE	INSTALL	SIGN DISPOSITION	REMOVE	INSTALL												
SS-13	1A	W3-3(36)	1	SIGNAL AHEAD (Symbol) - 36x36	36	36	9.0				NEW																
SS-13	1B	W16-8aP	1	ADVANCE STREET NAME (2 - line plaque)	30	18	3.8				ADD TO ASSEMBLY															"Linden Hill Rd" (Highway Font C, 4" Normal Kerning)	
SS-22	1A	W3-3(36)	1	SIGNAL AHEAD (Symbol) - 36x36	36	36	9.0				RENEW	1	1														
SS-22	1B	D3-2-DE3	1	DEVELOPMENT NAME	36	32					REMOVE	1														(Left Arrow) "SPRING MEADOW"	
SS-22	1C	W16-8P	1	ADVANCE STREET NAME (1 - line plaque)	36	9	2.3				ADD TO ASSEMBLY															"Paper Mill Rd" (Highway Font C, 4" Normal Kerning)	
SS-22	1D	D3-2-DE3	1	DEVELOPMENT NAME	30	16	3.0				ADD TO ASSEMBLY															(Left Arrow) "Spring Meadow" (Highway Font D, 4" Normal Kerning)	
SS-22	2A	D3-2-DE3	1	DEVELOPMENT NAME	36	32					REMOVE	1														"SPRING MEADOW" (Right Arrow)	
SS-22	2B	D3-2-DE3	1	DEVELOPMENT NAME	30	16	3.0				ADD TO ASSEMBLY															"Spring Meadow" (Highway Font D, 4" Normal Kerning) (Right Arrow)	
SS-22	3A	S1-1(36)	1	SCHOOL SIGN (Symbol) - 36x36	36	36					REMAIN																
SS-22	3B	W16-8P_R	1	RIGHT ADVANCE TURN ARROW (plaque)	24	18					REMOVE	1															
SS-22	3C	S4-3P(24)	1	SCHOOL - 24x8	24	8		1.3			ADD TO ASSEMBLY																
SS-24	1A	S1-1(36)	1	SCHOOL SIGN (Symbol) - 36x36	36	36					REMAIN																
SS-24	1B	W16-8P_L	1	LEFT ADVANCE TURN ARROW (plaque)	24	18					REMOVE	1															
SS-24	1C	S4-3P(24)	1	SCHOOL - 24x8	24	8		1.3			ADD TO ASSEMBLY																
SS-24	2A	W3-3(36)	1	SIGNAL AHEAD (Symbol) - 36x36	36	36	9.0				RENEW	1	1														
SS-24	2B	W16-8P	1	ADVANCE STREET NAME (1 - line plaque)	36	9	2.3				NEW															"Paper Mill Rd" (Highway Font C, 4" Normal Kerning)	
SS-28	1	W11-1-DE(30)	1	BICYCLE (Symbol) IN LANE - 30x30	30	30	6.3				NEW																
SS-28	1A	W11-24aP-DE	1	HIDDEN ENTRANCE (plaque)	24	12					REMOVE	1															
SS-28	1B	S3-1(36)	1	SCHOOL BUS STOP AHEAD - 36x36	36	36					REMOVE	1															
SS-28	1C	W13-1P-25(18)	1	ADVISORY SPEED (25 MPH) 18x18	18	18					REMOVE	1															
SS-28	1D	W11-24aP-DE_FY	1	HIDDEN ENTRANCE (plaque) (Fluorescent Yellow)	24	12	2.0				ADD TO ASSEMBLY																
SS-28	1E	S3-1(36)	1	SCHOOL BUS STOP AHEAD - 36x36	36	36		9.0			ADD TO ASSEMBLY																
SS-28	2A	W1-10_L(36)	1	COMBINATION HORIZONTAL ALIGNMENT/INTERSECTION (Left) - 36x36	36	36					REMOVE	1															
SS-28	2B	W16-8P	1	ADVANCE STREET NAME (1 - line plaque)	30	9					REMOVE	1														"Crossan Rd"	
SS-28	2C	W21-9P-DE_FY	1	WATCH FOR TURNING TRAFFIC (plaque) - 30x18 (Fluorescent Yellow)	30	18		3.8			RENEW	1	1													FLUORESCENT YELLOW BACKGROUND	
SS-28	2D	W1-10_L_FY(36)	1	COMBINATION HORIZONTAL ALIGNMENT/INTERSECTION (Left) - 36x36 (Fluorescent Yellow)	36	36		9.0			ADD TO ASSEMBLY															FLUORESCENT YELLOW BACKGROUND	
SS-28	2E	W16-8aP_FY	1	ADVANCE STREET NAME (2 - line plaque) (Fluorescent Yellow)	42	18		5.3			ADD TO ASSEMBLY															(Left Arrow) "Crossan Rd" / (Advance Left Arrow) "Bridleshire / Rd" (Highway Font C, 4" Normal Kerning) FLUORESCENT YELLOW BACKGROUND	
SS-28	3A	W1-7(48)	1	TWO DIRECTIONAL LARGE ARROW - 48x24	48	24	8.0																				
SS-28	3B	OM4-3	1	END OF ROAD OBJECT MARKER	18	18	2.3				RENEW	1	1														
SS-28	3C	OM4-3	1	END OF ROAD OBJECT MARKER	18	18	2.3				ADD TO ASSEMBLY																
SS-29	1A	W1-10_L(36)	1	COMBINATION HORIZONTAL ALIGNMENT/INTERSECTION (Left) - 36x36	36	36					REMOVE	1															
SS-29	1B	W16-8P	1	ADVANCE STREET NAME (1 - line plaque)	30	9					REMOVE	1														"Crossan Rd"	
SS-29	1C	W1-10_L_FY(36)	1	COMBINATION HORIZONTAL ALIGNMENT/INTERSECTION (Left) - 36x36 (Fluorescent Yellow)	36	36		9.0			ADD TO ASSEMBLY															FLUORESCENT YELLOW BACKGROUND	
SS-29	1D	W16-8aP_FY	1	ADVANCE STREET NAME (2 - line plaque) (Fluorescent Yellow)	42	18		5.3			ADD TO ASSEMBLY															(Right Arrow) "Crossan Rd" / (Right Arrow) "Bridleshire / Rd" (Right Arrow) "Crossan Rd" (Advance Right Turn Arrow) FLUORESCENT YELLOW BACKGROUND	
SS-30	1	W11-1-DE(30)	1	BICYCLE (Symbol) IN LANE - 30x30	30	30	6.3				NEW																
PAGE TOTALS							68	44	0			15	21				8	8									

ADDENDUMS / REVISIONS

NOT TO SCALE

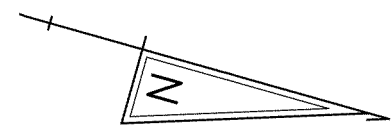
PAVEMENT & REHABILITATION
NORTH I, 2024
UPPER PIKE CREEK ROAD

CONTRACT
T202406101.02
COUNTY
NEW CASTLE

ROAD NO. N295
DESIGNED BY: R. KUSY / J. CLEM
CHECKED BY: M. WAHED

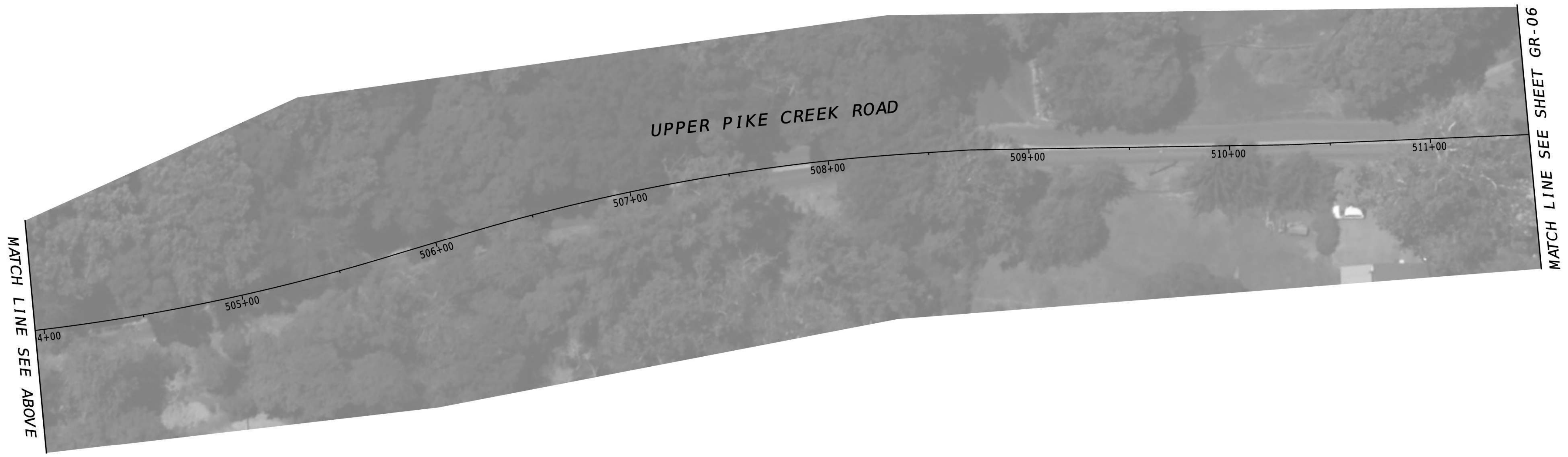
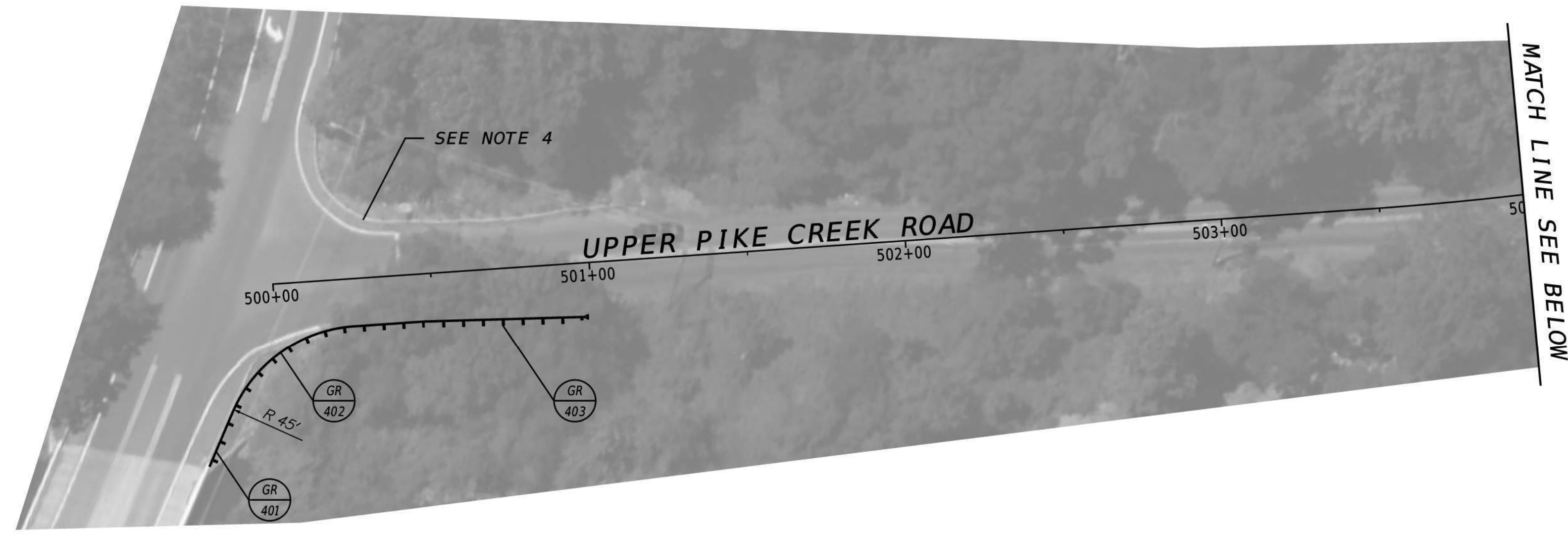
PERMANENT
SIGN SCHEDULE

SECTION
JMT
SHEET NO.
48



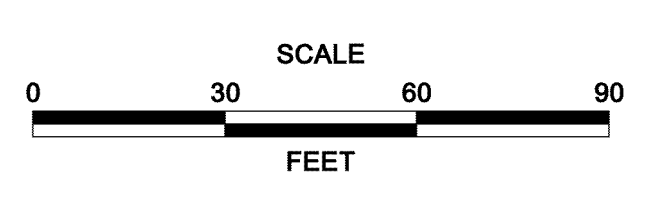
GUARDRAIL SCHEDULE				
NO.	ITEM DESCRIPTION / TYPE	BEGIN STA.	OFFSET	LENGTH
401	GUARDRAIL TO BARRIER CONNECTION - EXIT TYPE 1-31	500+00.00	57.40	31.00
402	GALVANIZED STEEL BEAM GUARDRAIL, TYPE 1-31	500+00.00	40.42	87.50
403	END TREATMENT, ATTENUATOR TYPE 1	500+46.79	14.89	50.00

- NOTES**
- SEE STANDARD DETAIL B-1, TYPE 1-31 GUARDRAIL APPLICATION.
 - SEE STANDARD DETAIL B-2, GUARDRAIL END TREATMENT ATTENUATOR TYPE 1-31.
 - SEE STANDARD DETAIL B-8, GUARDRAIL TO BARRIER CONNECTION, EXIT TYPE 1-31.
 - OBSTRUCTIONS PRESENT WITHIN THE CURVED GUARDRAIL SECTION. REMEDIATION TO MEET STANDARD DETAIL B-18 CURVED GUARDRAIL SECTION 1-27 IS NOT POSSIBLE.



7-AUG-2024 17:13 pwt/jmt-pw.bentley.com:jmt-pw-01/Documents/Projects/2019/19-00797-002/JMT/General/2D Drawing/GR Files/GR - Upper Pike Creek Rd_North Star Rd.dgn

ADDENDUMS / REVISIONS



**PAVEMENT & REHABILITATION
NORTH I, 2024- UPPER PIKE CREEK
ROAD/NORTH STAR ROAD**

CONTRACT	ROAD NO.	N295
T202406101.02	DESIGNED BY:	M. TAPLIN
COUNTY	CHECKED BY:	B. DOUGHERTY
NEW CASTLE		

GUARDRAIL PLANS	SECTION
	JMT
	SHEET NO.
	49

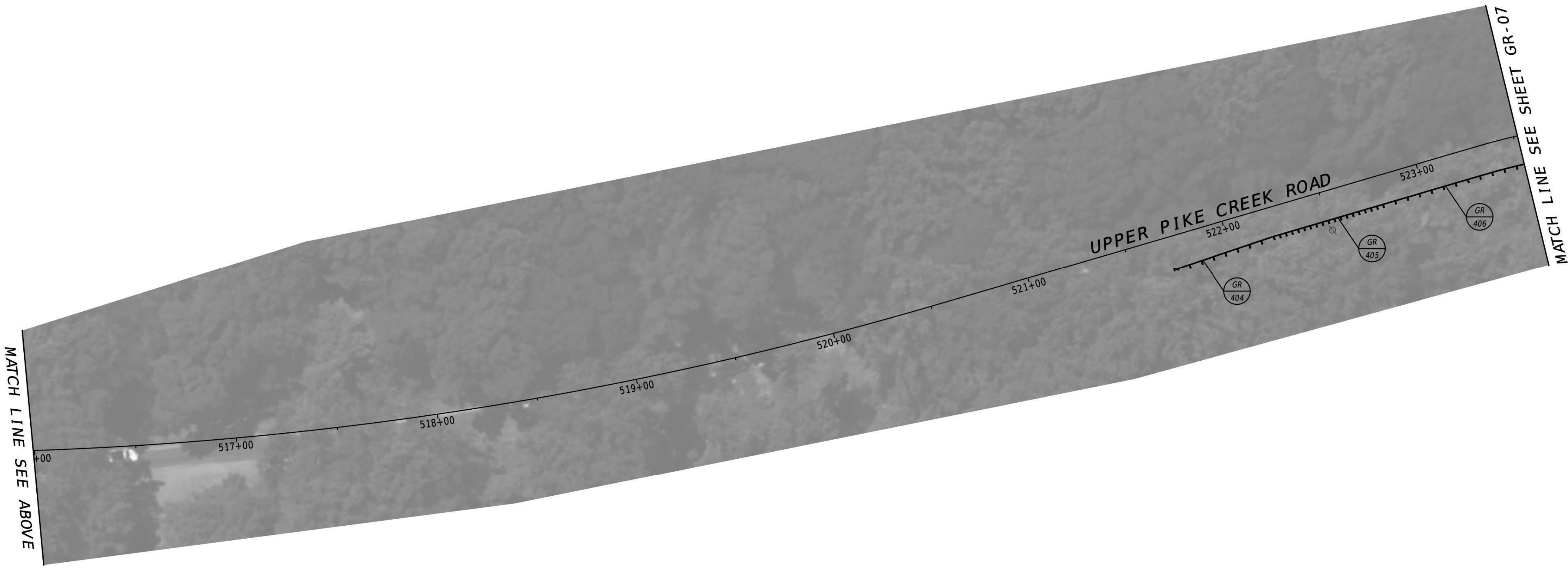
GR-05

GUARDRAIL SCHEDULE				
NO.	ITEM DESCRIPTION / TYPE	BEGIN STA.	OFFSET	LENGTH
404	END TREATMENT, ATTENUATOR TYPE 1	521+73.83	16.25	50.00
405	GALVANIZED STEEL BEAM GUARDRAIL, TYPE 2-31	522+25.59	14.25	62.50
406	GALVANIZED STEEL BEAM GUARDRAIL, TYPE 1-31, STEEP SLOPE	522+76.25	14.25	125.00



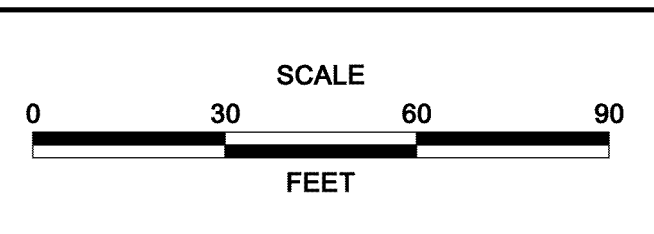
NOTES

- SEE STANDARD DETAIL B-1, TYPE 2-31 GUARDRAIL APPLICATION.
- SEE STANDARD DETAIL B-2, GUARDRAIL END TREATMENT ATTENUATOR TYPE 1-31.
- SEE STANDARD DETAIL B-1, TYPE 1-31 GUARDRAIL APPLICATION, STEEP SLOPE.



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ADDENDUMS / REVISIONS



**PAVEMENT & REHABILITATION
NORTH I, 2024- UPPER PIKE CREEK
ROAD/NORTH STAR ROAD**

CONTRACT	ROAD NO.	N295
T202406101.02	DESIGNED BY:	M. TAPLIN
COUNTY	CHECKED BY:	B. DOUGHERTY
NEW CASTLE		

GUARDRAIL PLANS

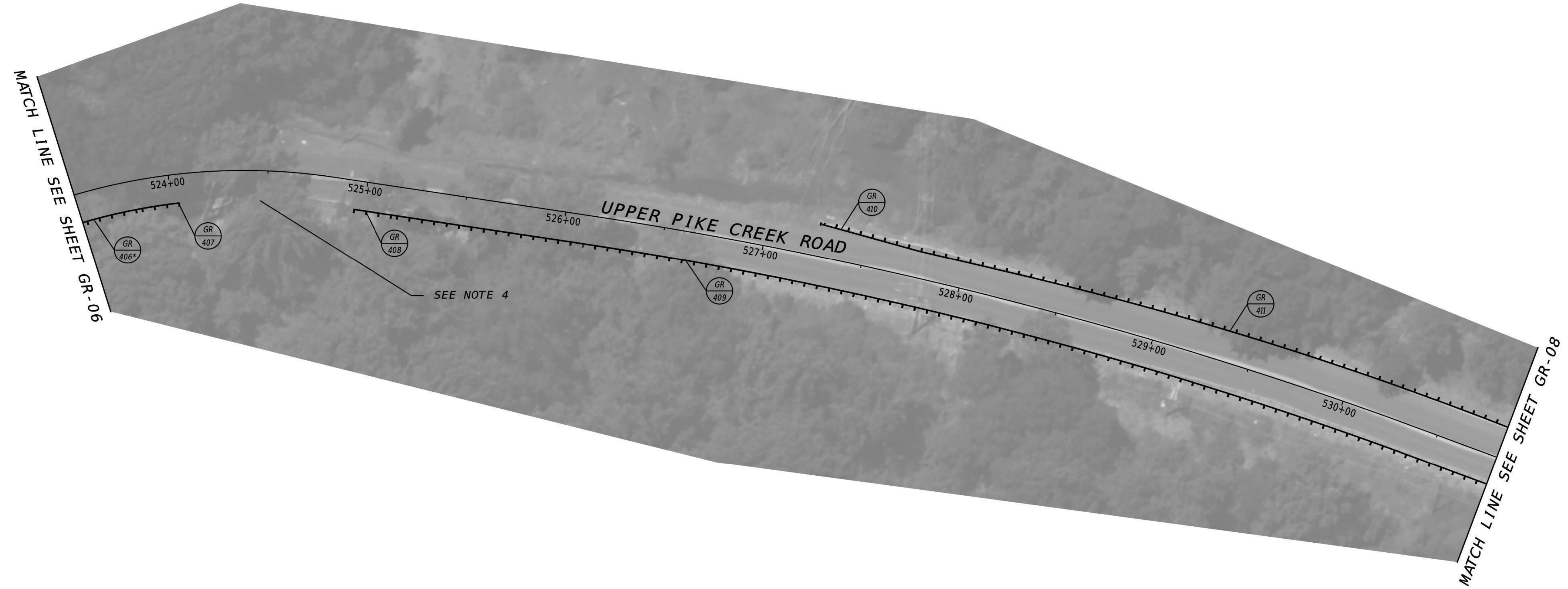
GR-06
SECTION
JMT
SHEET NO.
50

GUARDRAIL SCHEDULE				
NO.	ITEM DESCRIPTION / TYPE	BEGIN STA.	OFFSET	LENGTH
406	GALVANIZED STEEL BEAM GUARDRAIL, TYPE 1-31, STEEP SLOPE	522+76.25	14.25	*
407	W-BEAM, TYPE 1-27 TO TYPE 1-31 TRANSITION SECTION	523+74.50	14.25	24.00
408	W-BEAM, TYPE 1-27 TO TYPE 1-31 TRANSITION SECTION	524+95.08	14.25	24.00
409	GALVANIZED STEEL BEAM GUARDRAIL, TYPE 1-31	524+95.33	14.25	662.50
410	END TREATMENT, ATTENUATOR TYPE 1	527+27.11	16.00	50.00
411	GALVANIZED STEEL BEAM GUARDRAIL, TYPE 1-31, STEEP SLOPE	527+77.27	13.17	350.00

* QUANTITY SHOWN ON GR-06

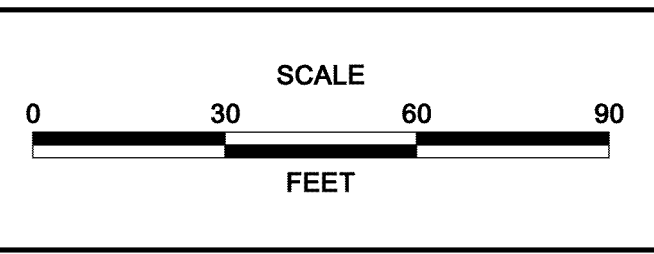
NOTES

1. SEE STANDARD DETAIL B-1, TYPE 1-31 GUARDRAIL APPLICATION, STEEP SLOPE.
2. SEE STANDARD DETAIL B-2, GRADING FOR GUARDRAIL END TREATMENT ATTENUATOR, TYPE 1.
3. SEE STANDARD DETAIL B-7, W-BEAM, TYPE 1-27 TO TYPE 1-31 TRANSITION SECTION.
4. EXISTING GUARDRAIL DOES NOT MEET THE DELDOT STANDARD DETAILS. EXCESSIVE SLOPES ADJACENT TO EXISTING GUARDRAIL REQUIRE REGRADING AND SLOPE STABILIZATION TO IMPROVE THE GUARDRAIL SYSTEM. THIS WORK IS OUTSIDE THE SCOPE OF THE PAVEMENT REHABILITATION.



7-AUG-2024 17:15 pwt/jmt-pw.bentley.com:jmt-pw-01/Documents/Projects/2019/19-00797-002/JMT/General/2D Drawing/GR Files/GR - Upper Pike Creek Rd_North Star Rd.dgn

ADDENDUMS / REVISIONS	



**PAVEMENT & REHABILITATION
NORTH I, 2024- UPPER PIKE CREEK
ROAD/NORTH STAR ROAD**

CONTRACT	ROAD NO.	N295
T202406101.02	DESIGNED BY:	M. TAPLIN
COUNTY	CHECKED BY:	B. DOUGHERTY
NEW CASTLE		

GUARDRAIL PLANS

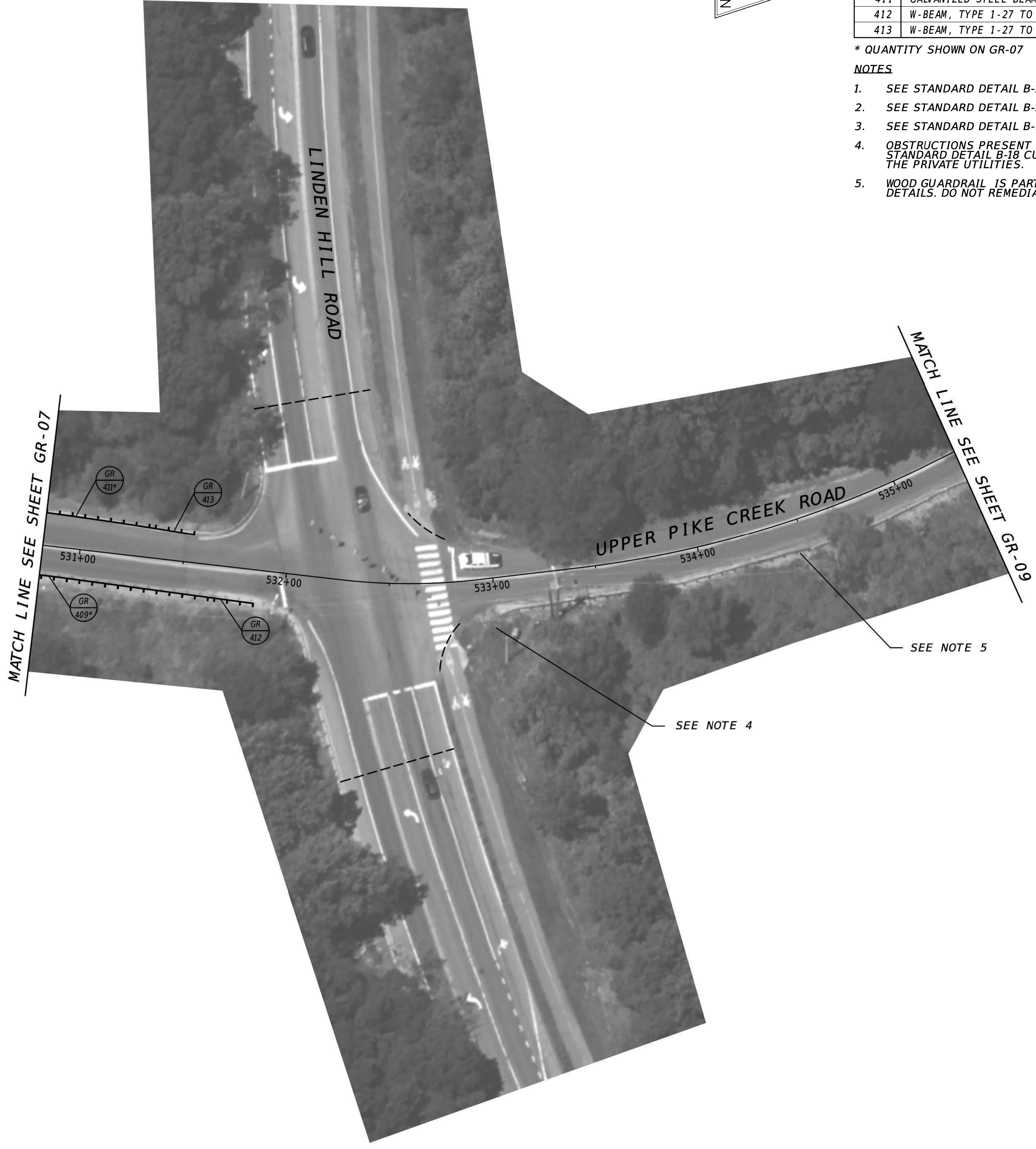
GR-07
SECTION
JMT
SHEET NO.
51

GUARDRAIL SCHEDULE				
NO.	ITEM DESCRIPTION / TYPE	BEGIN STA.	OFFSET	LENGTH
409	GALVANIZED STEEL BEAM GUARDRAIL, TYPE 1-31	524+95.33	14.25	*
411	GALVANIZED STEEL BEAM GUARDRAIL, TYPE 1-31, STEEP SLOPE	527+77.27	13.17	*
412	W-BEAM, TYPE 1-27 TO TYPE 1-31 TRANSITION SECTION	527+57.59	15.53	24.00
413	W-BEAM, TYPE 1-27 TO TYPE 1-31 TRANSITION SECTION	531+25.55	14.64	24.00

* QUANTITY SHOWN ON GR-07

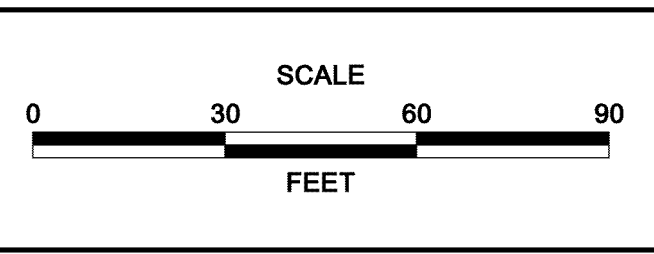
NOTES

- SEE STANDARD DETAIL B-1, TYPE 1-31 GUARDRAIL APPLICATION, STEEP SLOPE.
- SEE STANDARD DETAIL B-1, TYPE 1-31 GUARDRAIL APPLICATION.
- SEE STANDARD DETAIL B-7, TYPE 1-27 TO TYPE 1-31 TRANSITION SECTION.
- OBSTRUCTIONS PRESENT WITHIN THE EXISTING CURVED GUARDRAIL SECTION. REMEDIATION TO MEET STANDARD DETAIL B-18 CURVED GUARDRAIL SECTION 1-27 IS NOT POSSIBLE WITHOUT RELOCATION OF THE PRIVATE UTILITIES.
- WOOD GUARDRAIL IS PART OF WHITE CLAY STATE PARK. GUARDRAIL DOES NOT MEET DELDOT STANDARD DETAILS. DO NOT REMEDIATE.



7-AUG-2024 17:38 pwl/jmt-pw-bentley.com:jmt-pw-01/Documents/Projects/2019/19-00797-002/JMT/General/2D Drawing/GR Files/GR - Upper Pike Creek Rd_North Star Rd.dgn

ADDENDUMS / REVISIONS



**PAVEMENT & REHABILITATION
NORTH I, 2024- UPPER PIKE CREEK
ROAD/NORTH STAR ROAD**

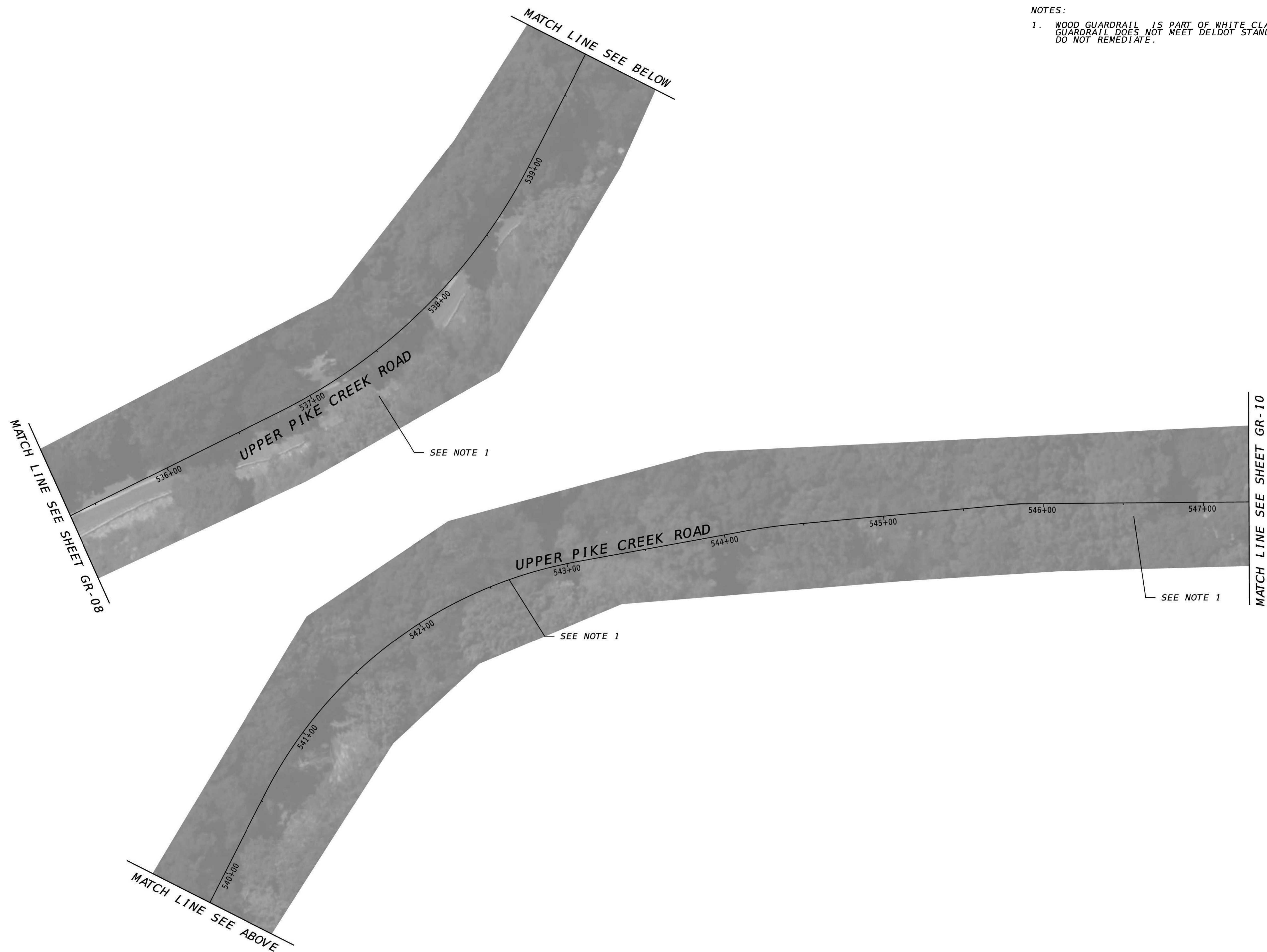
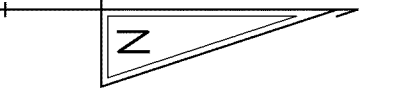
CONTRACT	ROAD NO.	N295
T202406101.02	DESIGNED BY:	M. TAPLIN
COUNTY	CHECKED BY:	B. DOUGHERTY
NEW CASTLE		

GUARDRAIL PLANS

GR-08
SECTION
JMT
SHEET NO.
52

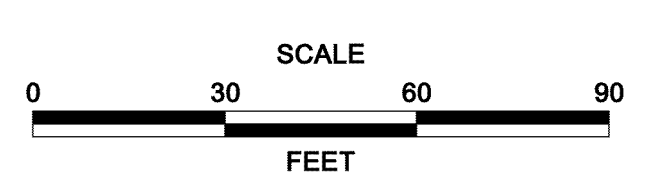
NOTES:

1. WOOD GUARDRAIL IS PART OF WHITE CLAY STATE PARK. GUARDRAIL DOES NOT MEET DELDOT STANDARD DETAILS. DO NOT REMEDIATE.



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ADDENDUMS / REVISIONS	



**PAVEMENT & REHABILITATION
NORTH I, 2024- UPPER PIKE CREEK
ROAD/NORTH STAR ROAD**

CONTRACT	ROAD NO.	N295
T202406101.02	DESIGNED BY:	M. TAPLIN
COUNTY	CHECKED BY:	B. DOUGHERTY
NEW CASTLE		

GUARDRAIL PLANS

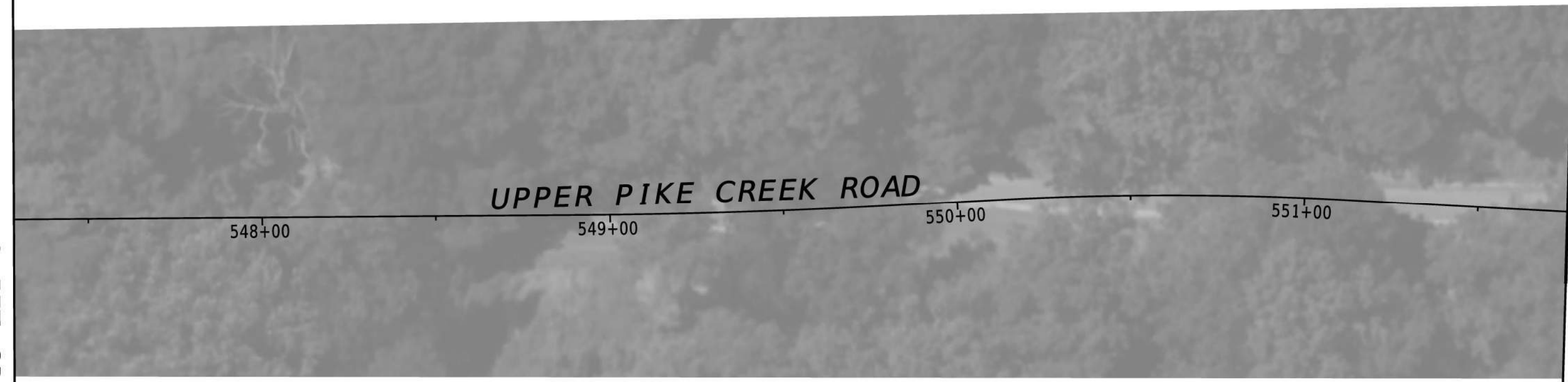
GR-09
SECTION
JMT
SHEET NO.
53

NOTES:

- WOOD GUARDRAIL IS PART OF WHITE CLAY STATE PARK. GUARDRAIL DOES NOT MEET DELDOT STANDARD DETAILS. DO NOT REMEDIATE.

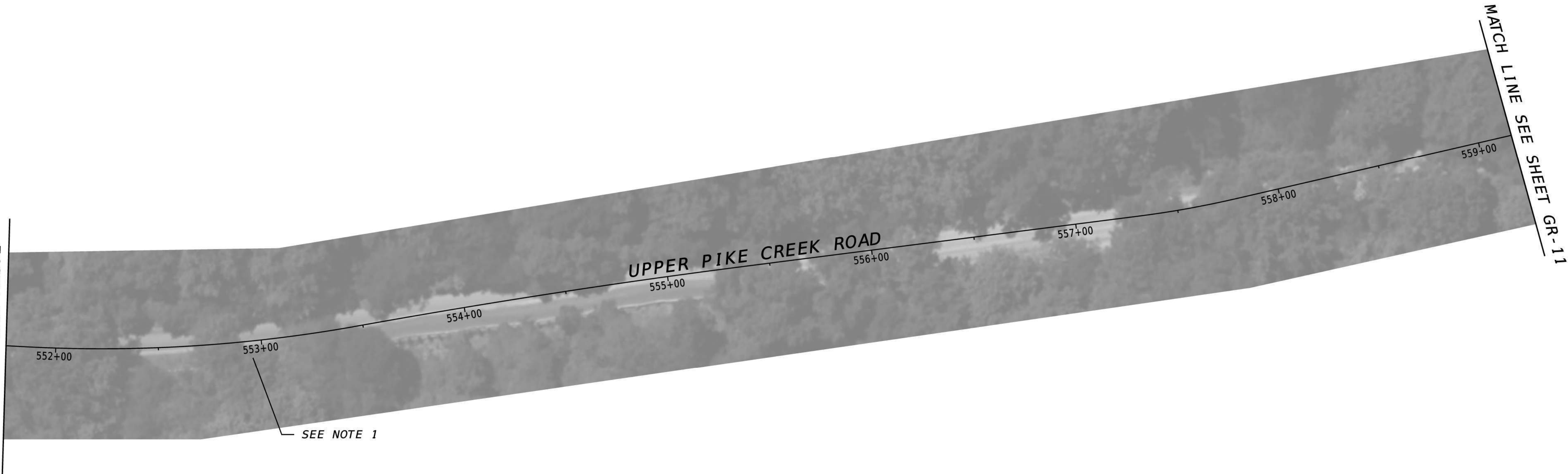


MATCH LINE SEE SHEET GR-09



MATCH LINE SEE BELOW

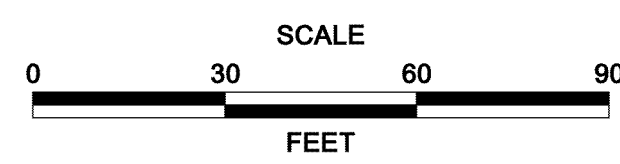
MATCH LINE SEE ABOVE



MATCH LINE SEE SHEET GR-11

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ADDENDUMS / REVISIONS

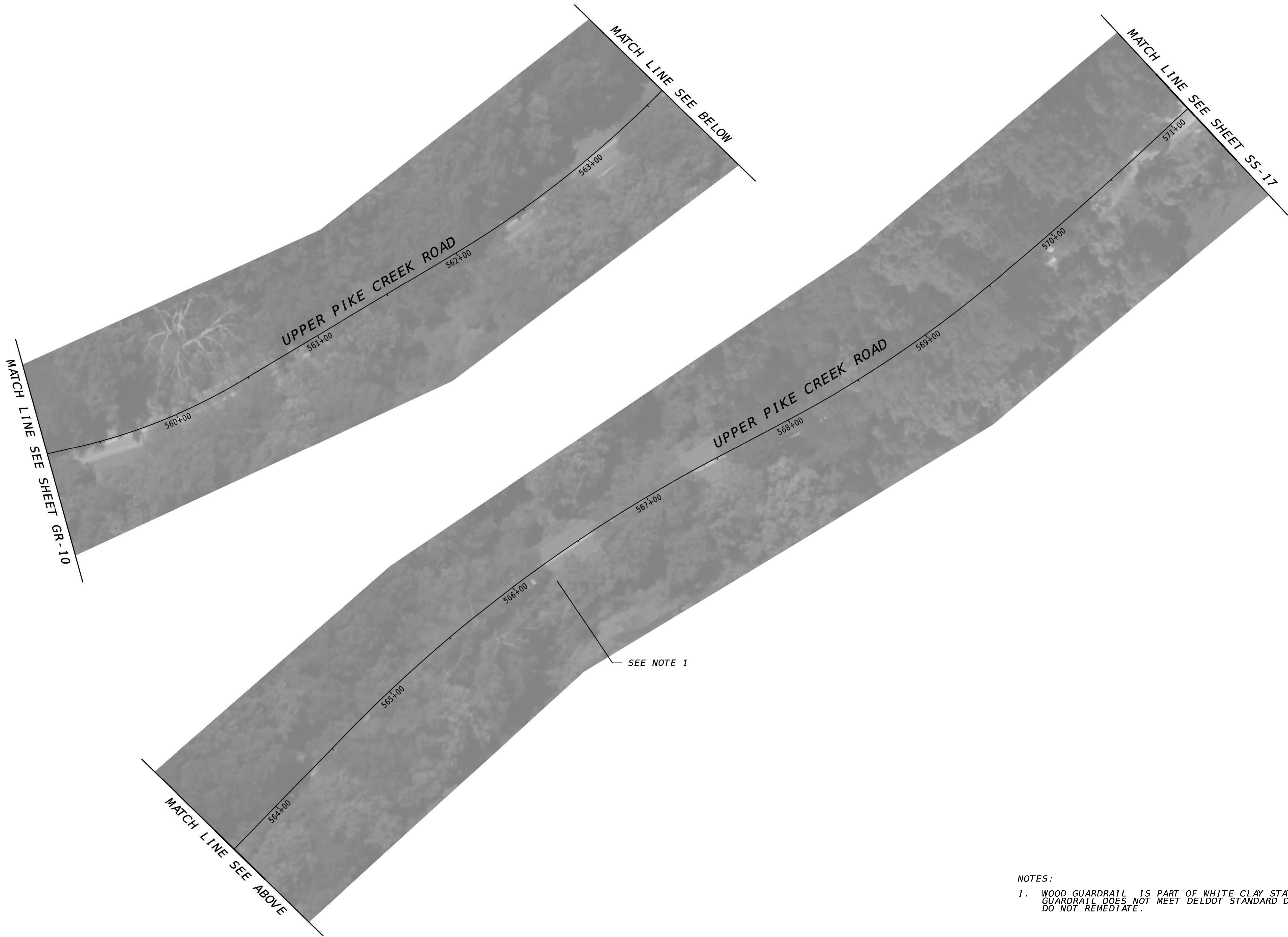
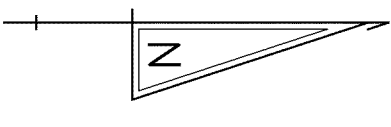


**PAVEMENT & REHABILITATION
NORTH I, 2024- UPPER PIKE CREEK
ROAD/NORTH STAR ROAD**

CONTRACT	ROAD NO.	N295
T202406101.02	DESIGNED BY: M. TAPLIN	
COUNTY	CHECKED BY: B. DOUGHERTY	
NEW CASTLE		

GUARDRAIL PLANS

GR-10
SECTION
JMT
SHEET NO.
54

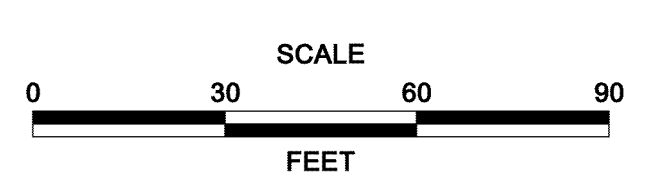


SEE NOTE 1

- NOTES:
- WOOD GUARDRAIL IS PART OF WHITE CLAY STATE PARK. GUARDRAIL DOES NOT MEET DELDOT STANDARD DETAILS. DO NOT REMEDIATE.

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ADDENDUMS / REVISIONS	

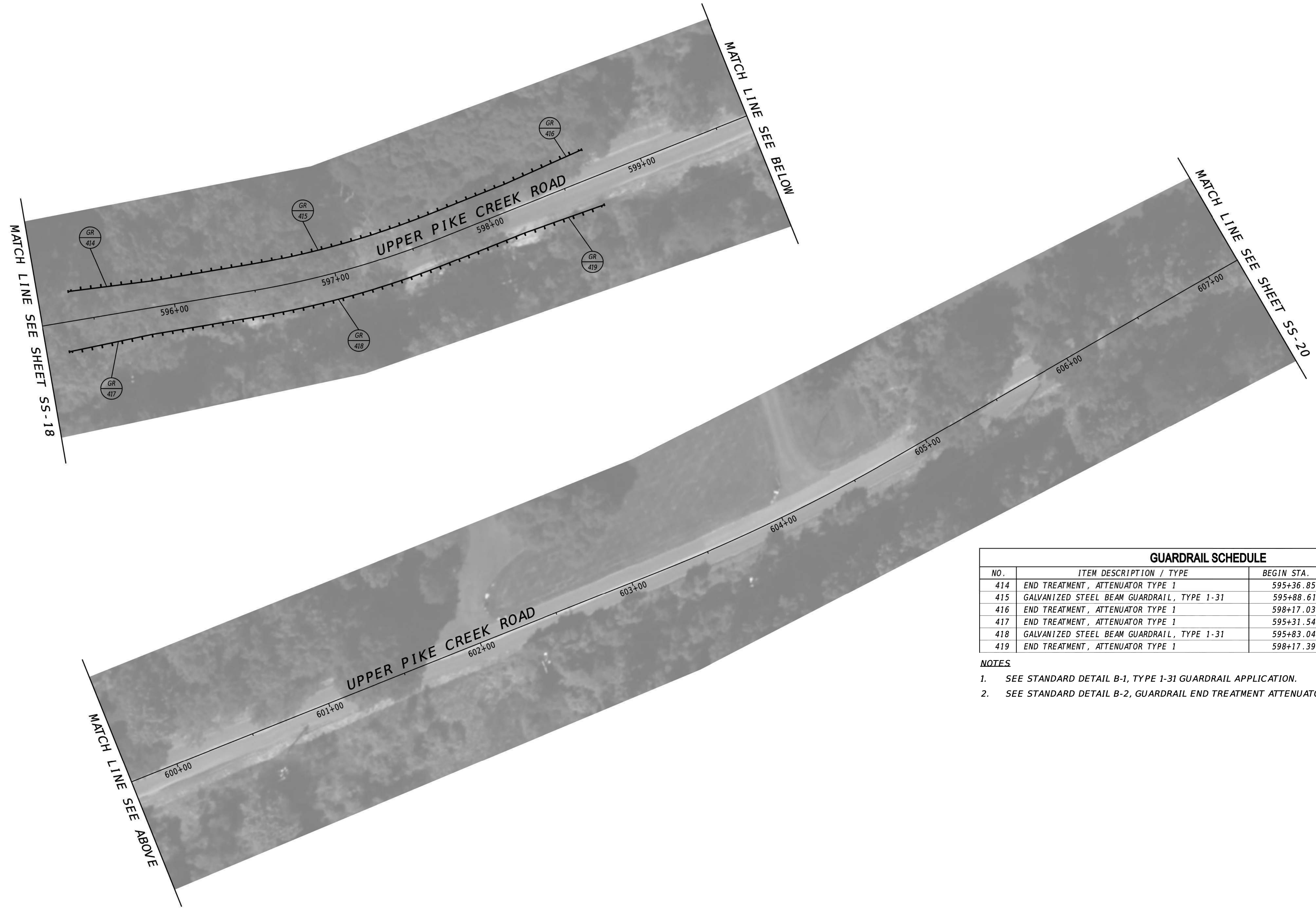
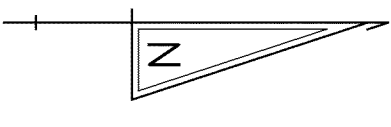


**PAVEMENT & REHABILITATION
NORTH I, 2024- UPPER PIKE CREEK
ROAD/NORTH STAR ROAD**

CONTRACT	ROAD NO.	N295
T202406101.02	DESIGNED BY:	M. TAPLIN
COUNTY	CHECKED BY:	B. DOUGHERTY
NEW CASTLE		

GUARDRAIL PLANS	SECTION
	JMT
	SHEET NO.
	55

GR-11

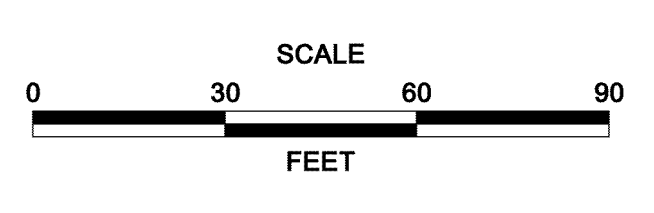


GUARDRAIL SCHEDULE				
NO.	ITEM DESCRIPTION / TYPE	BEGIN STA.	OFFSET	LENGTH
414	END TREATMENT, ATTENUATOR TYPE 1	595+36.85	18.21	50.00
415	GALVANIZED STEEL BEAM GUARDRAIL, TYPE 1-31	595+88.61	16.00	225.00
416	END TREATMENT, ATTENUATOR TYPE 1	598+17.03	16.00	50.00
417	END TREATMENT, ATTENUATOR TYPE 1	595+31.54	18.21	50.00
418	GALVANIZED STEEL BEAM GUARDRAIL, TYPE 1-31	595+83.04	16.00	237.50
419	END TREATMENT, ATTENUATOR TYPE 1	598+17.39	16.00	50.00

- NOTES**
- SEE STANDARD DETAIL B-1, TYPE 1-31 GUARDRAIL APPLICATION.
 - SEE STANDARD DETAIL B-2, GUARDRAIL END TREATMENT ATTENUATOR TYPE 1-31.

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ADDENDUMS / REVISIONS



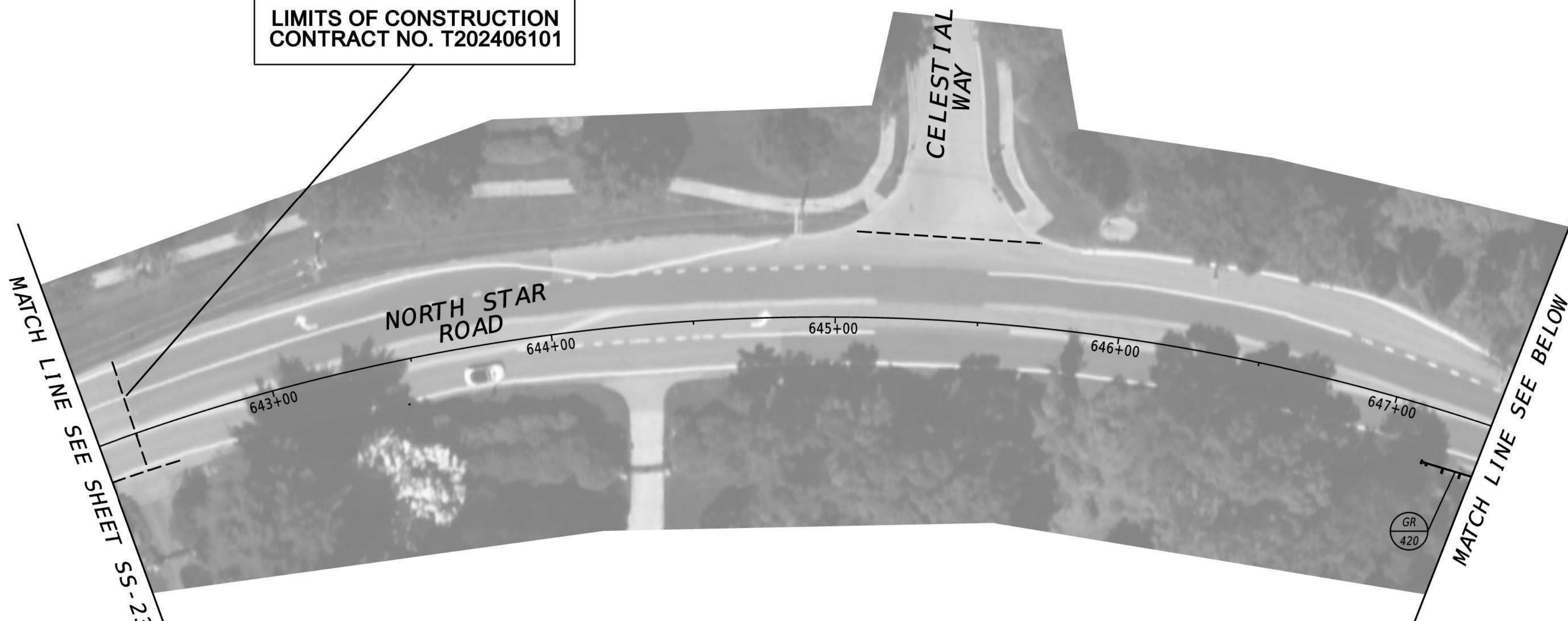
**PAVEMENT & REHABILITATION
NORTH I, 2024- UPPER PIKE CREEK
ROAD/NORTH STAR ROAD**

CONTRACT	ROAD NO.	N295
T202406101.02	DESIGNED BY:	M. TAPLIN
COUNTY	CHECKED BY:	B. DOUGHERTY
NEW CASTLE		

GUARDRAIL PLANS

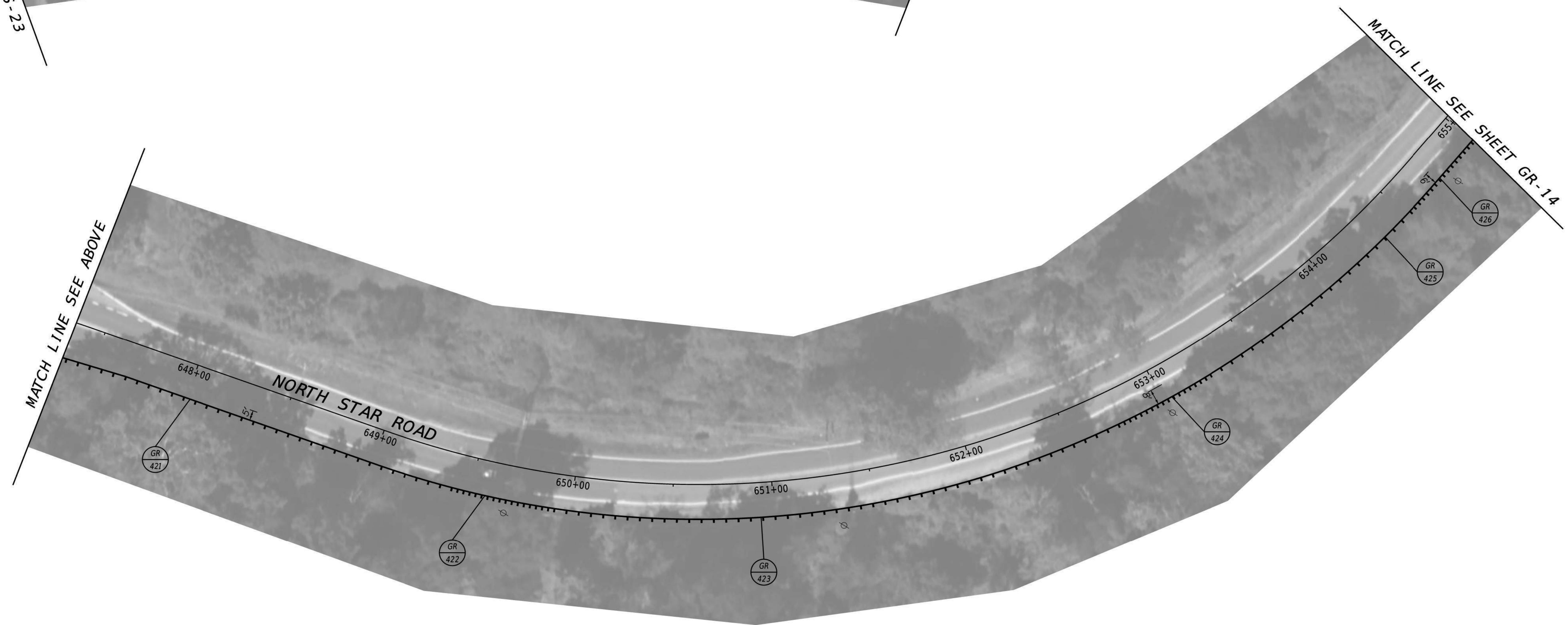
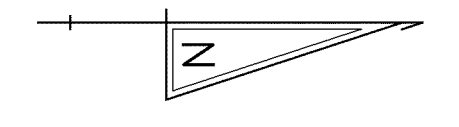
GR-12
SECTION
JMT
SHEET NO.
56

LIMITS OF CONSTRUCTION
CONTRACT NO. T202406101



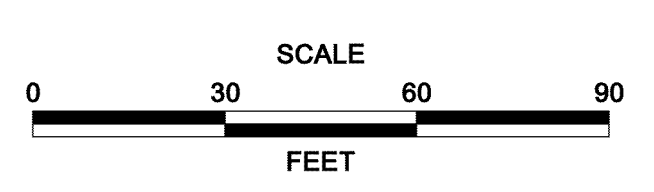
GUARDRAIL SCHEDULE				
NO.	ITEM DESCRIPTION / TYPE	BEGIN STA.	OFFSET	LENGTH
420	END TREATMENT, ATTENUATOR TYPE 1	647+14.70	20.00	50.00
421	GALVANIZED STEEL BEAM GUARDRAIL, TYPE 1-31	647+67.22	17.50	175.00
422	GALVANIZED STEEL BEAM GUARDRAIL, TYPE 2-31	649+40.53	17.50	62.50
423	GALVANIZED STEEL BEAM GUARDRAIL, TYPE 1-31	649+92.24	17.50	275.00
424	GALVANIZED STEEL BEAM GUARDRAIL, TYPE 2-31	652+74.98	17.50	62.50
425	GALVANIZED STEEL BEAM GUARDRAIL, TYPE 1-31	653+26.68	17.50	125.00
426	GALVANIZED STEEL BEAM GUARDRAIL, TYPE 2-31	654+52.75	17.50	62.50

- NOTES
- SEE STANDARD DETAIL B-1, TYPE 1-31 GUARDRAIL APPLICATION.
 - SEE STANDARD DETAIL B-1, TYPE 2-31 GUARDRAIL APPLICATION.
 - SEE STANDARD DETAIL B-2, GUARDRAIL END TREATMENT ATTENUATOR TYPE 1-31.



7-AUG-2024 17:22 jmt-pw-bentley.com:jmt-pw-01\Documents\Projects\2019\19-00797-002\JMT\General\2D Drawing\GR Files\GR - Upper Pike Creek Rd_North Star Rd.dgn

ADDENDUMS / REVISIONS

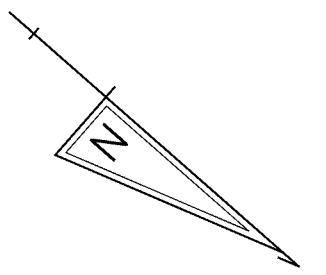


PAVEMENT & REHABILITATION
NORTH I, 2024- UPPER PIKE CREEK
ROAD/NORTH STAR ROAD

CONTRACT	ROAD NO.	N295
T202406101.02	DESIGNED BY:	M. TAPLIN
COUNTY	CHECKED BY:	B. DOUGHERTY
NEW CASTLE		

GUARDRAIL PLANS	
JMT	SHEET NO.
57	

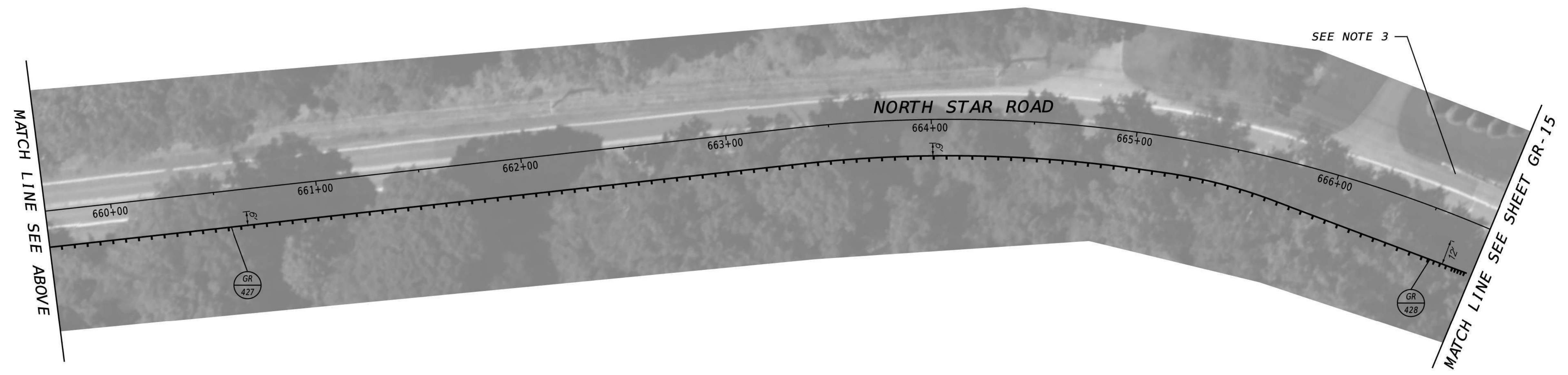
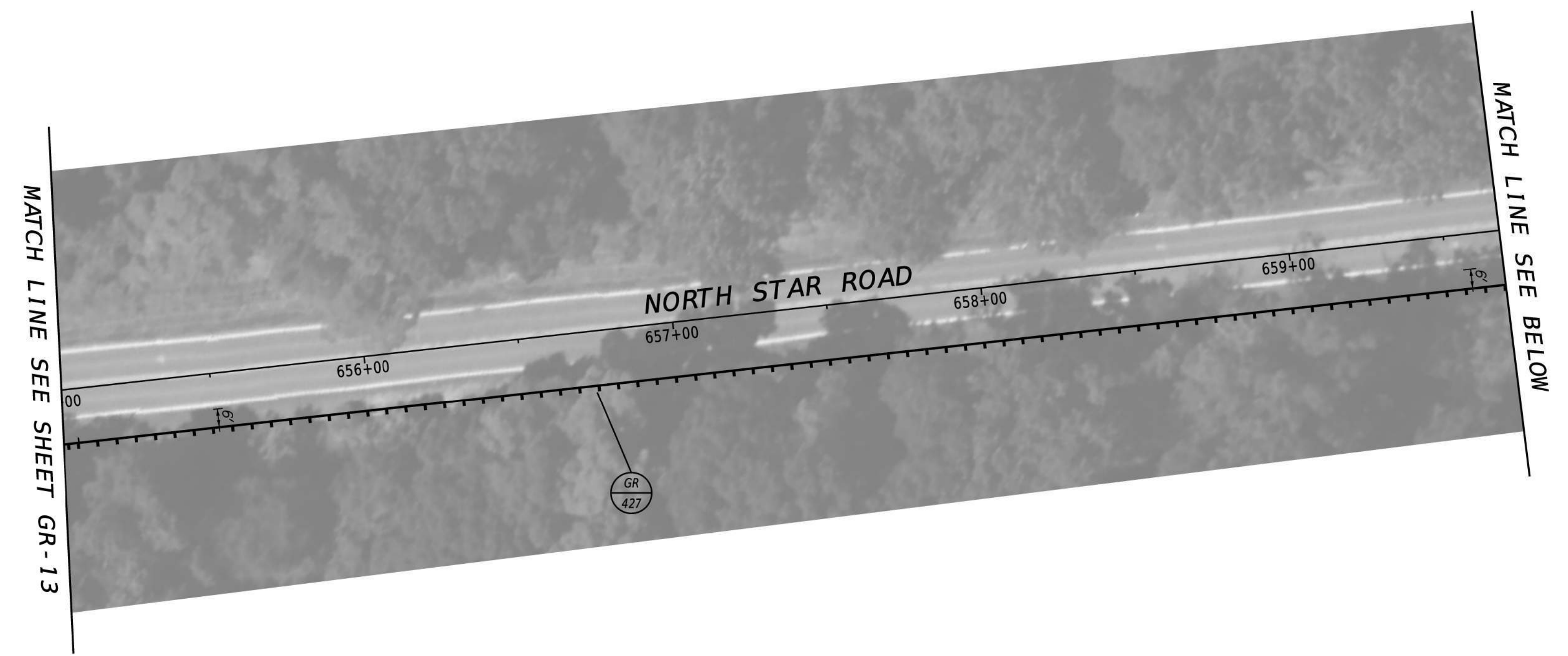
GR-13



GUARDRAIL SCHEDULE				
NO.	ITEM DESCRIPTION / TYPE	BEGIN STA.	OFFSET	LENGTH
427	GALVANIZED STEEL BEAM GUARDRAIL, TYPE 1-31	654+38.34	20.00	1150.00
428	GUARDRAIL TO BARRIER CONNECTION - APPROACH TYPE 1-31	654+38.34	20.00	35.00

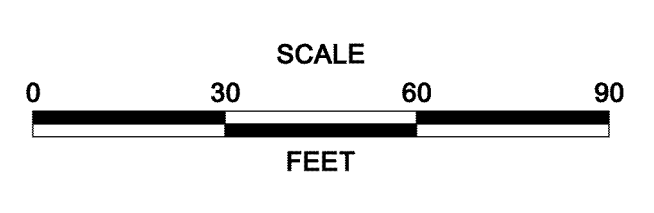
NOTES

1. SEE STANDARD DETAIL B-1, TYPE 1-31 GUARDRAIL APPLICATION.
2. SEE STANDARD DETAIL B-8, GUARDRAIL TO BARRIER CONNECTION - APPROACH TYPE 1-31
3. EXISTING CONDITIONS WILL NOT ALLOW GUARDRAIL TO MEET DELDOT'S STANDARD DETAILS. ADJUSTING RESIDENTIAL DRIVEWAY IS OUTSIDE THE SCOPE OF THE PAVEMENT AND REHABILITATION PROJECTS.



7-AUG-2024 17:24 p:\jmt-pw-bentley.com\jmt-pw-01\Documents\Projects\2019\19-00797-002\JMT\General\2D Drawing\GR Files\GR - Upper Pike Creek Rd_North Star Rd.dgn

ADDENDUMS / REVISIONS



**PAVEMENT & REHABILITATION
NORTH I, 2024- UPPER PIKE CREEK
ROAD/NORTH STAR ROAD**

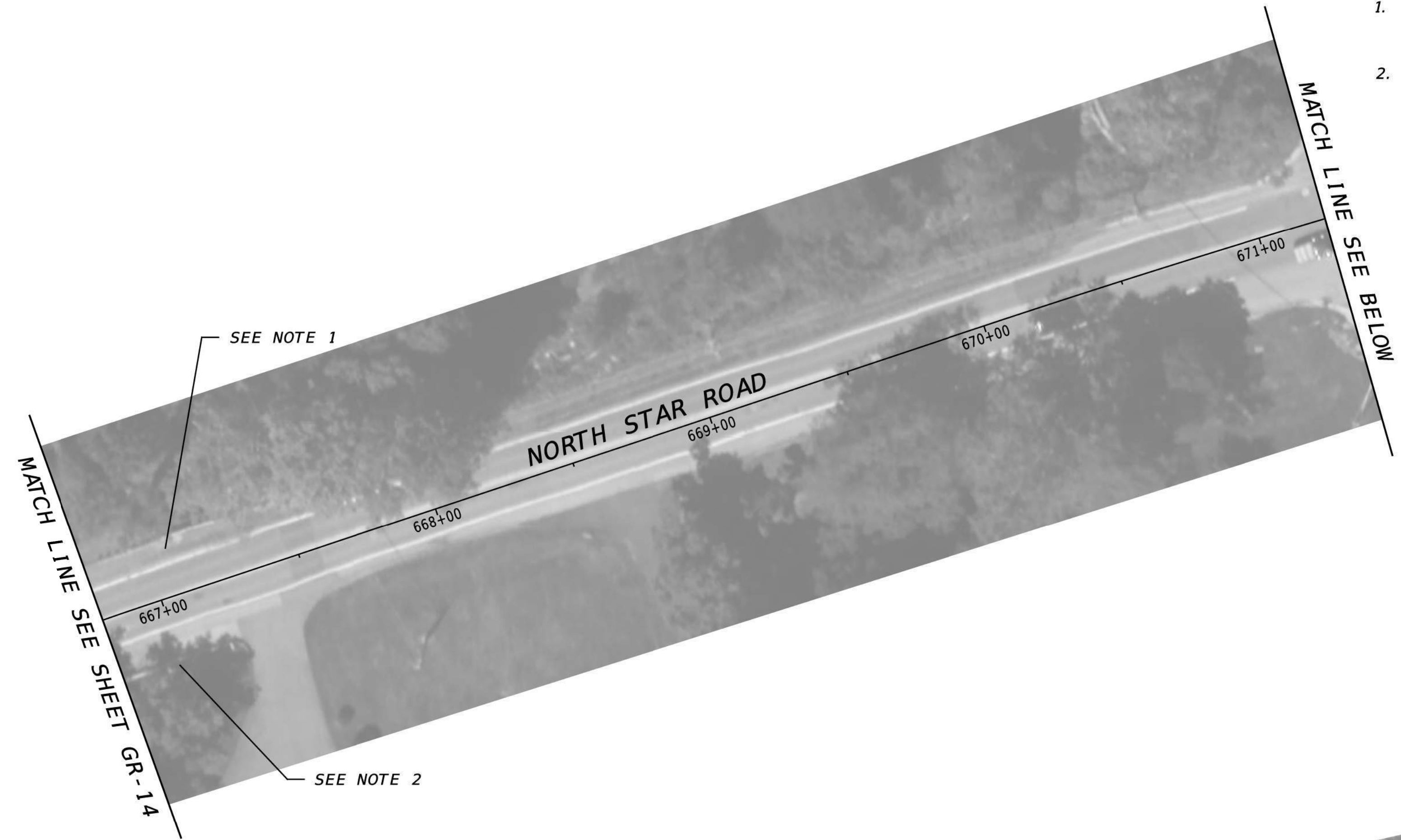
CONTRACT	ROAD NO.	N295
T202406101.02	DESIGNED BY:	M. TAPLIN
COUNTY	CHECKED BY:	B. DOUGHERTY
NEW CASTLE		

GUARDRAIL PLANS	SECTION
	JMT
	SHEET NO.
	58

GR-14

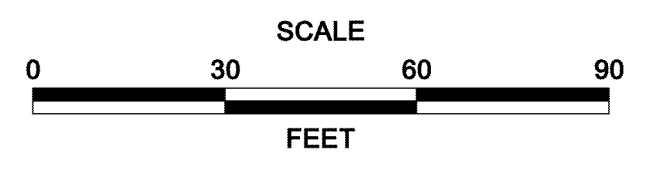
NOTES

- EXISTING GUARDRAIL IS LESS THAN 31". EXISTING CHANGES IN GRADE PROHIBIT THE UPGRADE OF THE GUARDRAIL TO BE COMPLIANT WITH MASH STANDARD AND DELDOT'S STANDARD GUARDRAIL DETAILS. REGRADING OF THE AREA TO IMPROVE THE GUARDRAIL SYSTEM IS OUTSIDE THE SCOPE OF OF THE PAVEMENT & REHABILITATION PROJECT.
- EXISTING CONDITIONS WILL NOT ALLOW GUARDRAIL TO MEET DELDOT'S STANDARD GUARDRAIL DETAILS. ADJUSTING THE RESIDENTIAL DRIVEWAY TO IMPROVE THE GUARDRAIL SYSTEM IS OUTSIDE THE SCOPE OF OF THE PAVEMENT & REHABILITATION PROJECT.



7-AUG-2024 17:25 pwl/jmt-pw.bentley.com:jmt-pw-01/Documents/Projects/2019/19-00797-002/JMT/General/2D Drawing/GR Files/GR - Upper Pike Creek Rd_North Star Rd.dgn

ADDENDUMS / REVISIONS



**PAVEMENT & REHABILITATION
NORTH I, 2024- UPPER PIKE CREEK
ROAD/NORTH STAR ROAD**

CONTRACT	ROAD NO.	N295
T202406101.02	DESIGNED BY:	M. TAPLIN
COUNTY	CHECKED BY:	B. DOUGHERTY
NEW CASTLE		

GUARDRAIL PLANS

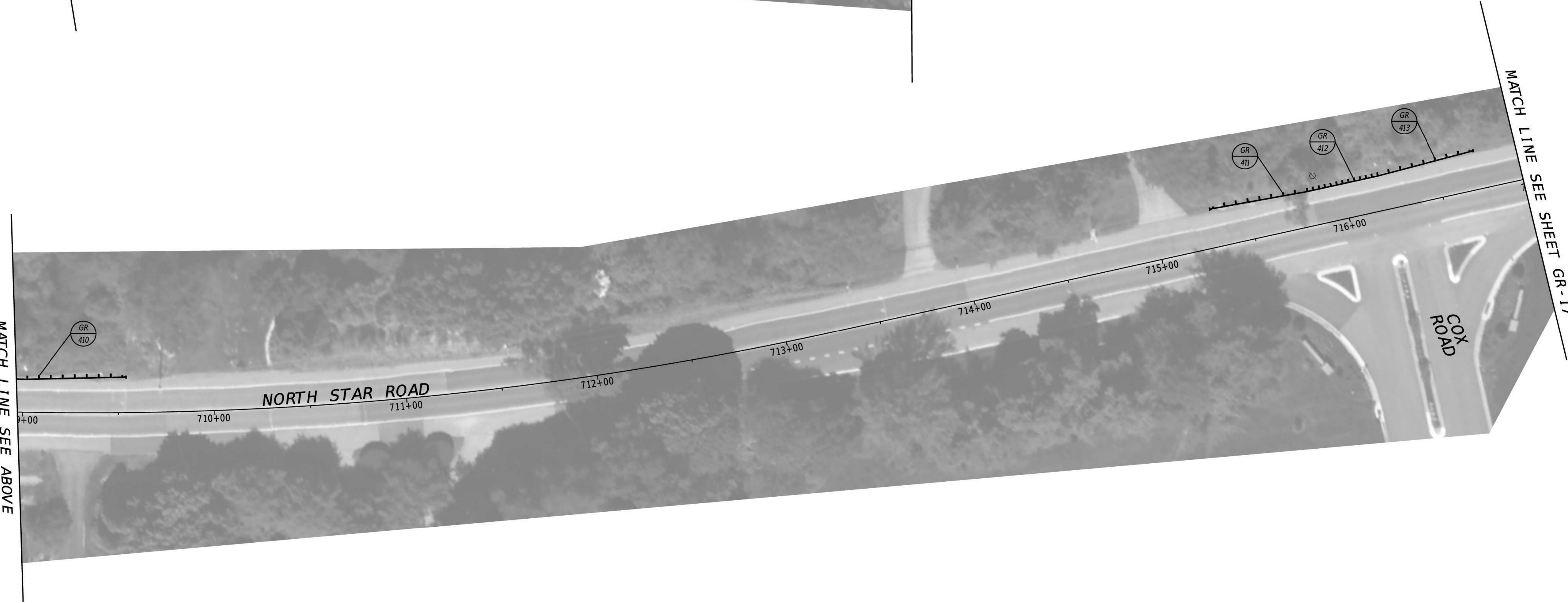
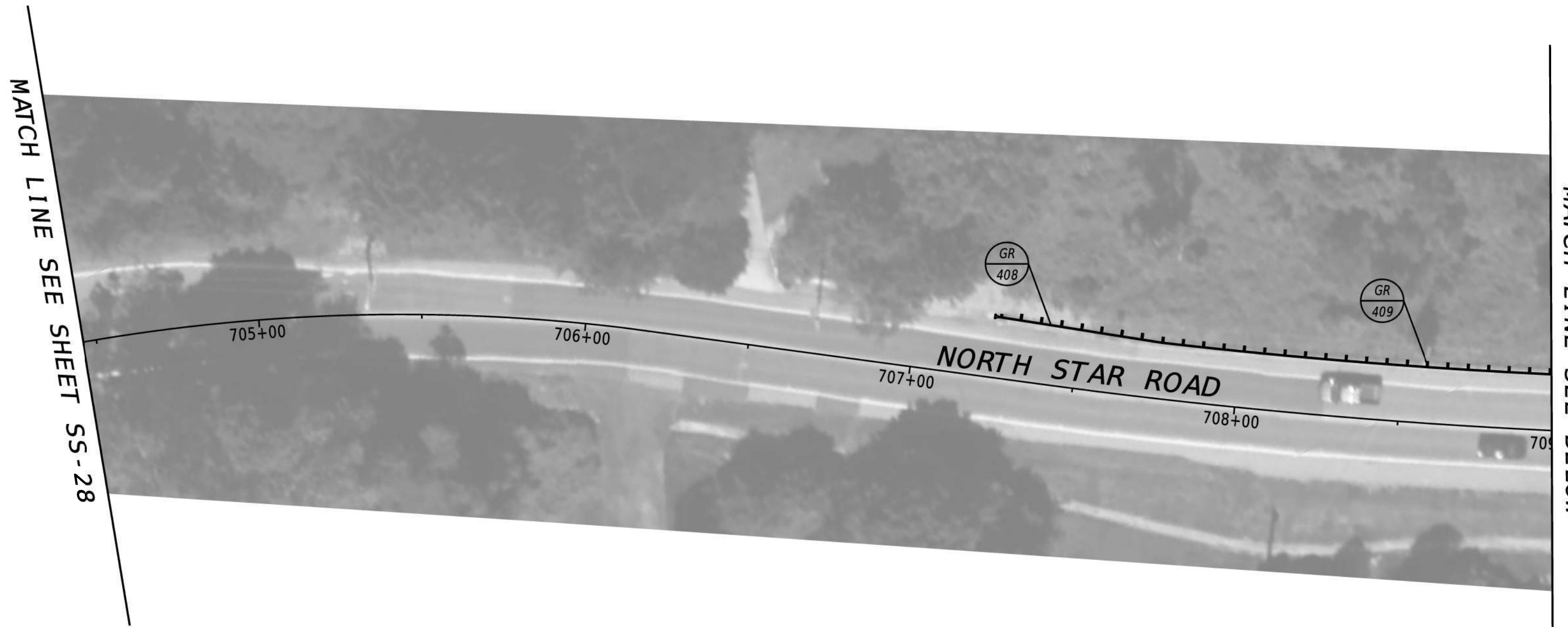
GR-15
SECTION
JMT
SHEET NO.
59



GUARDRAIL SCHEDULE				
NO.	ITEM DESCRIPTION / TYPE	BEGIN STA.	OFFSET	LENGTH
408	END TREATMENT, ATTENUATOR TYPE 1	707+23.62	18.76	50.00
409	GALVANIZED STEEL BEAM GUARDRAIL, TYPE 1-31, STEEP SLOPE	707+75.70	17.00	125.00
410	END TREATMENT, ATTENUATOR TYPE 1	709+01.91	17.00	50.00
411	END TREATMENT, ATTENUATOR TYPE 1	715+29.30	20.25	50.00
412	GALVANIZED STEEL BEAM GUARDRAIL, TYPE 2-31	715+81.29	18.00	37.50
413	END TREATMENT, ATTENUATOR TYPE 1	716+19.02	18.00	50.00

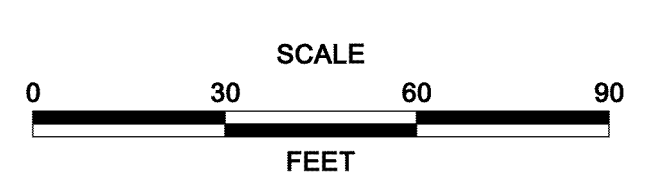
NOTES

1. SEE STANDARD DETAIL B-1, TYPE 1-31 GUARDRAIL APPLICATION.
2. SEE STANDARD DETAIL B-1, TYPE 2-31 GUARDRAIL APPLICATION.
3. SEE STANDARD DETAIL B-1, TYPE 1-31 GUARDRAIL APPLICATION, STEEP SLOPES.
4. SEE STANDARD DETAIL B-2, GUARDRAIL END TREATMENT ATTENUATOR TYPE 1-31.



7-AUG-2024 17:27 p:\jmt-pw-bentley.com\jmt-pw-01\Documents\Projects\2019\19-00797-002\MT\General\2D Drawing\GR Files\GR - Upper Pike Creek Rd_North Star Rd.dgn

ADDENDUMS / REVISIONS

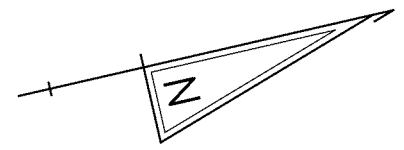


**PAVEMENT & REHABILITATION
NORTH I, 2024- UPPER PIKE CREEK
ROAD/NORTH STAR ROAD**

CONTRACT	ROAD NO.	N295
T202406101.02	DESIGNED BY:	M. TAPLIN
COUNTY	CHECKED BY:	B. DOUGHERTY
NEW CASTLE		

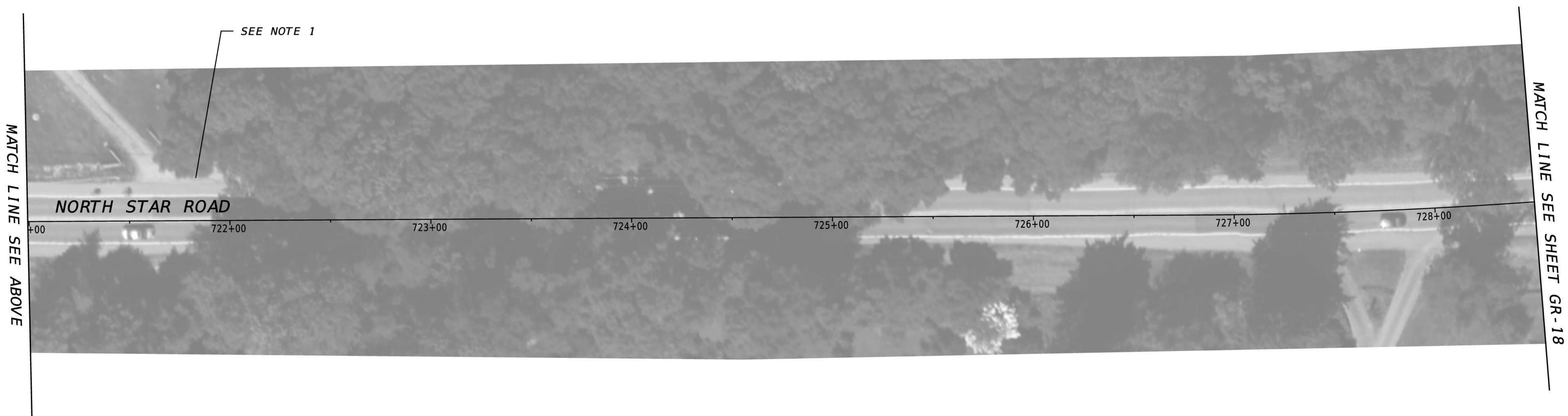
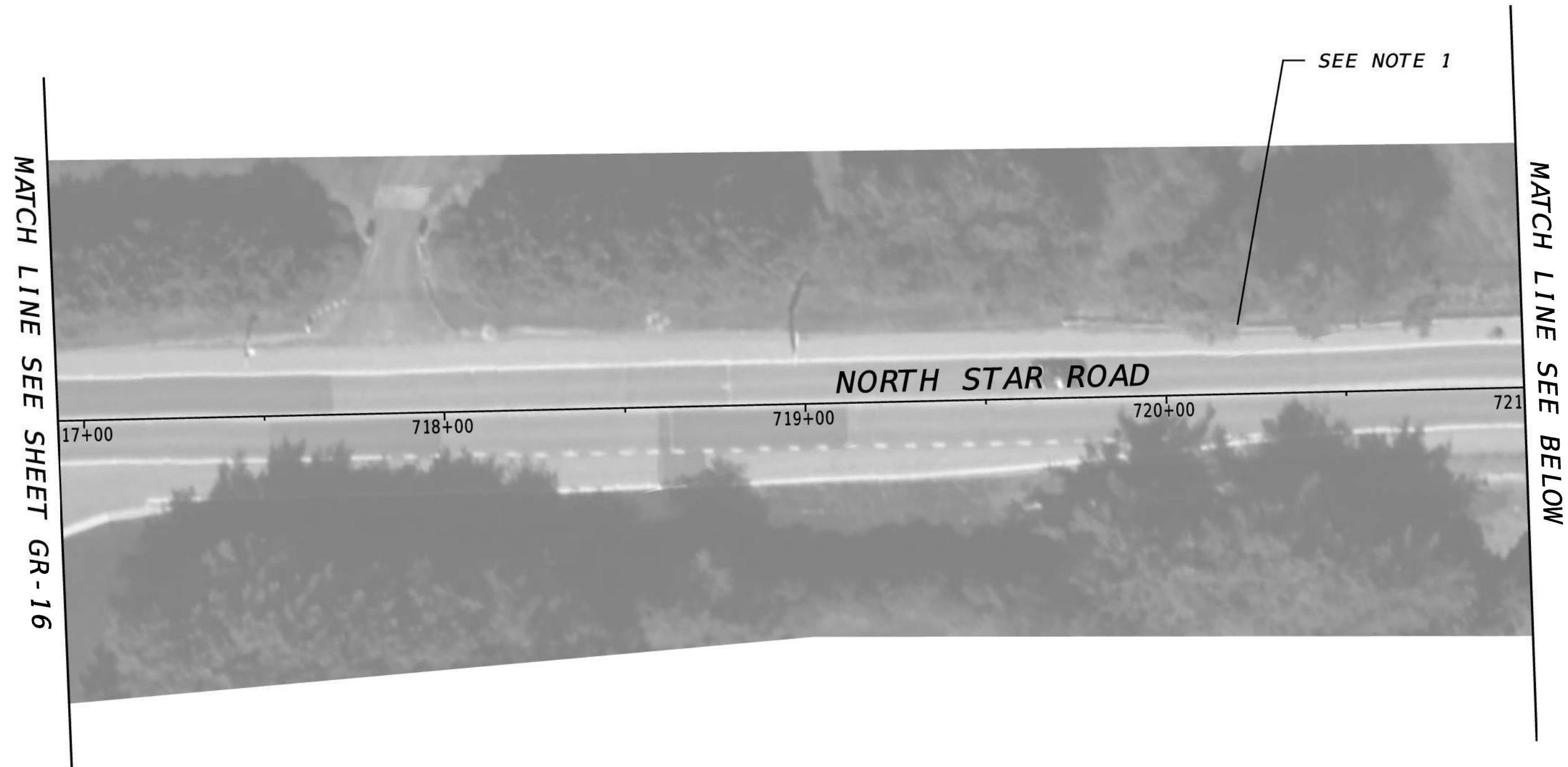
GUARDRAIL PLANS

GR-16
SECTION
JMT
SHEET NO.
60



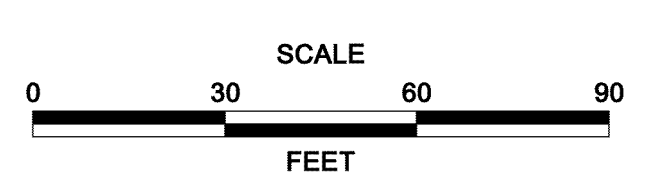
NOTES

1. EXISTING GUARDRAIL IS LESS THAN 31". EXISTING CHANGES IN GRADE PROHIBIT THE UPGRADE OF THE GUARDRAIL TO BE COMPLIANT WITH MASH STANDARD AND DELDOT'S STANDARD GUARDRAIL DETAILS. REGRADING OF THE AREA TO IMPROVE THE GUARDRAIL SYSTEM IS OUTSIDE THE SCOPE OF OF THE PAVEMENT & REHABILITATION PROJECT.



7-AUG-2024 17:28 p:\jmt\pw\henley.com\jmt-pw-01\Documents\Projects\2019\19-00797-002\JMT\General\2D Drawing\GR Files\GR - Upper Pike Creek Rd_North Star Rd.dgn

ADDENDUMS / REVISIONS	



**PAVEMENT & REHABILITATION
NORTH I, 2024- UPPER PIKE CREEK
ROAD/NORTH STAR ROAD**

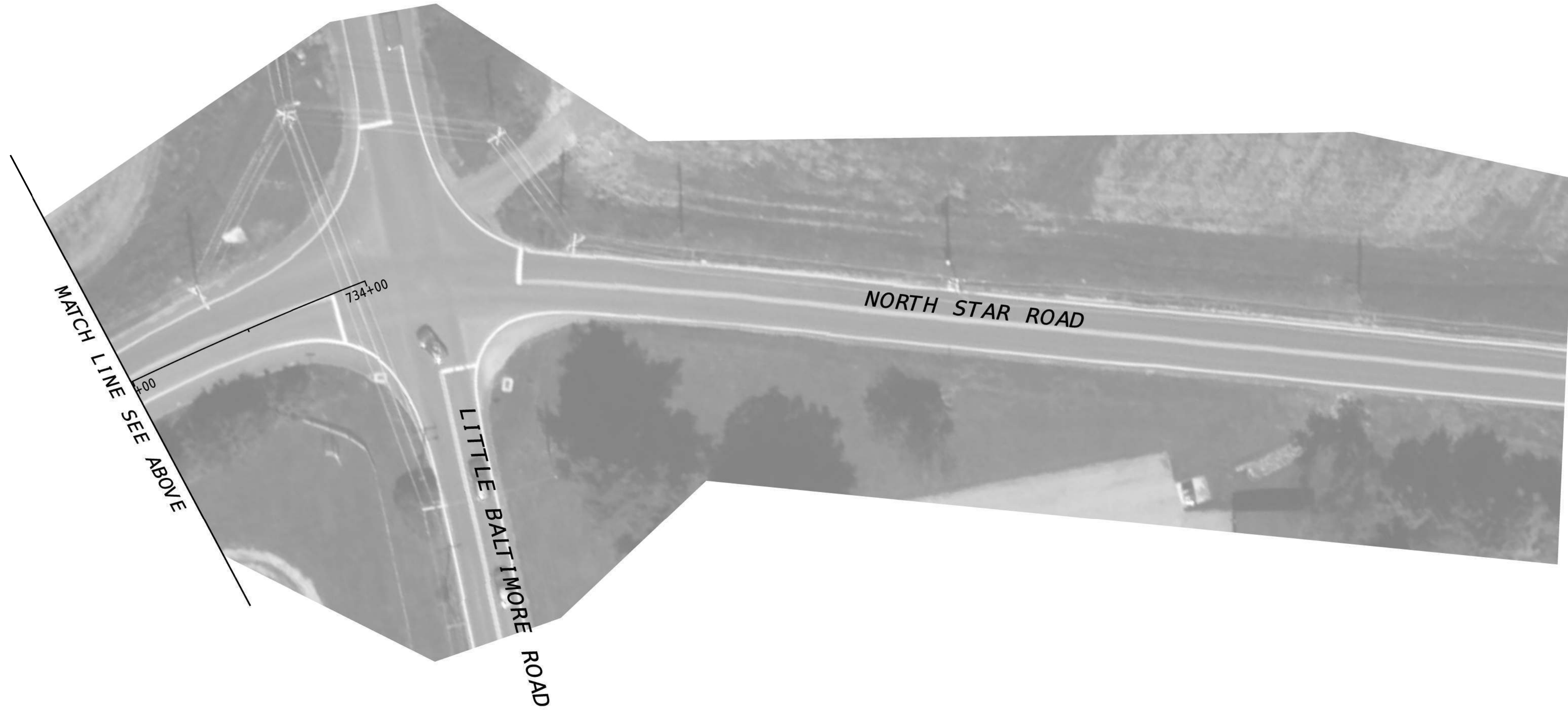
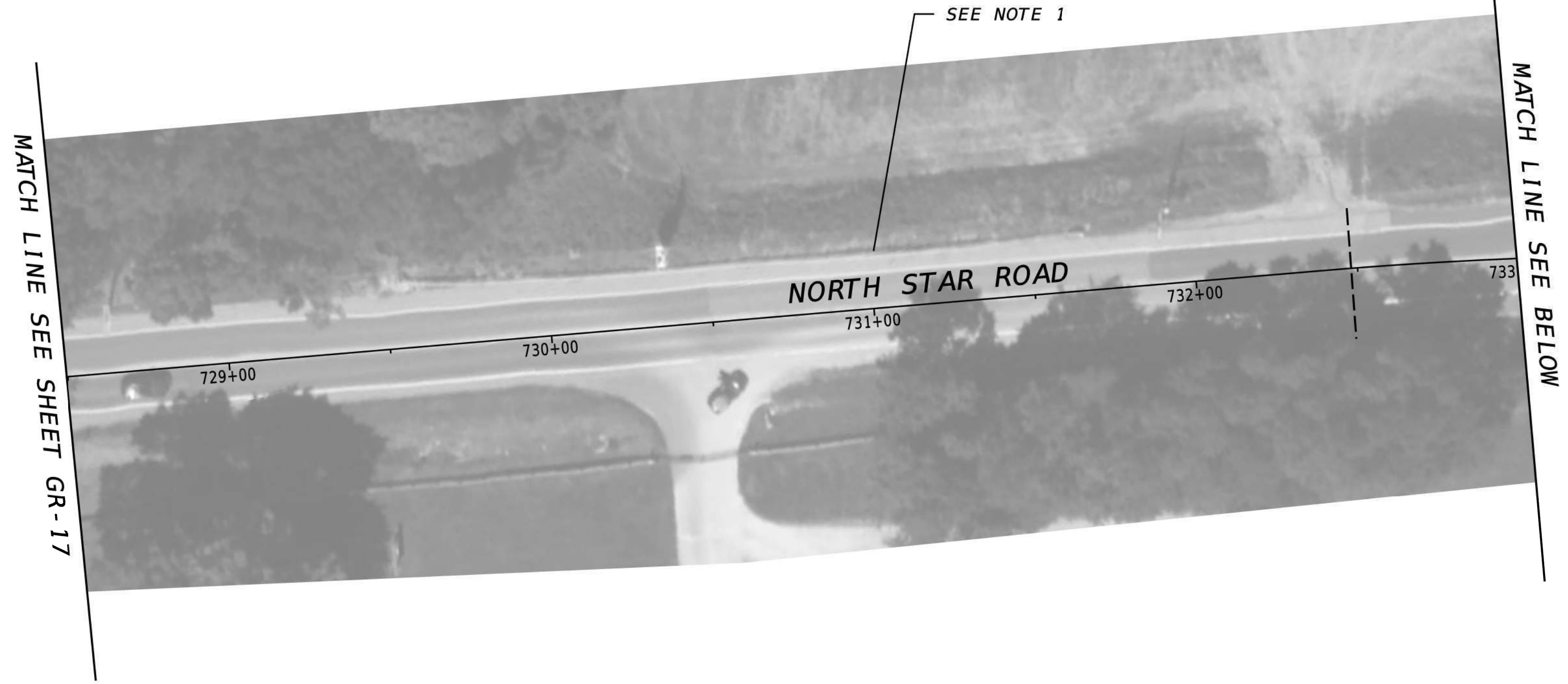
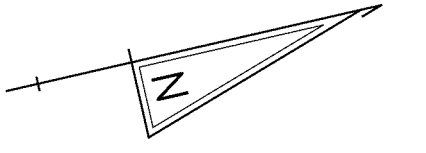
CONTRACT	ROAD NO.	N295
T202406101.02	DESIGNED BY: M. TAPLIN	
COUNTY	CHECKED BY: B. DOUGHERTY	
NEW CASTLE		

GUARDRAIL PLANS

GR-17
SECTION
JMT
SHEET NO.
61

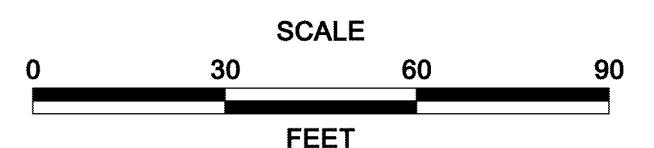
NOTES

- EXISTING GUARDRAIL IS LESS THAN 31". EXISTING CHANGES IN GRADE PROHIBIT THE UPGRADE OF THE GUARDRAIL TO BE COMPLIANT WITH MASH STANDARD AND DELDOT'S STANDARD GUARDRAIL DETAILS. REGRADING OF THE AREA TO IMPROVE THE GUARDRAIL SYSTEM IS OUTSIDE THE SCOPE OF OF THE PAVEMENT & REHABILITATION PROJECT.



7-AUG-2024 17:30 pwl/jmt-pw.bentley.com:jmt-pw-01/Documents/Projects/2019/19-00797-002/JMT/General/2D Drawing/GR Files/GR - Upper Pike Creek Rd_North Star Rd.dgn

ADDENDUMS / REVISIONS



**PAVEMENT & REHABILITATION
NORTH I, 2024- UPPER PIKE CREEK
ROAD/NORTH STAR ROAD**

CONTRACT	ROAD NO.	N295
T202406101.02	DESIGNED BY: M. TAPLIN	
COUNTY	CHECKED BY: B. DOUGHERTY	
NEW CASTLE		

GUARDRAIL PLANS

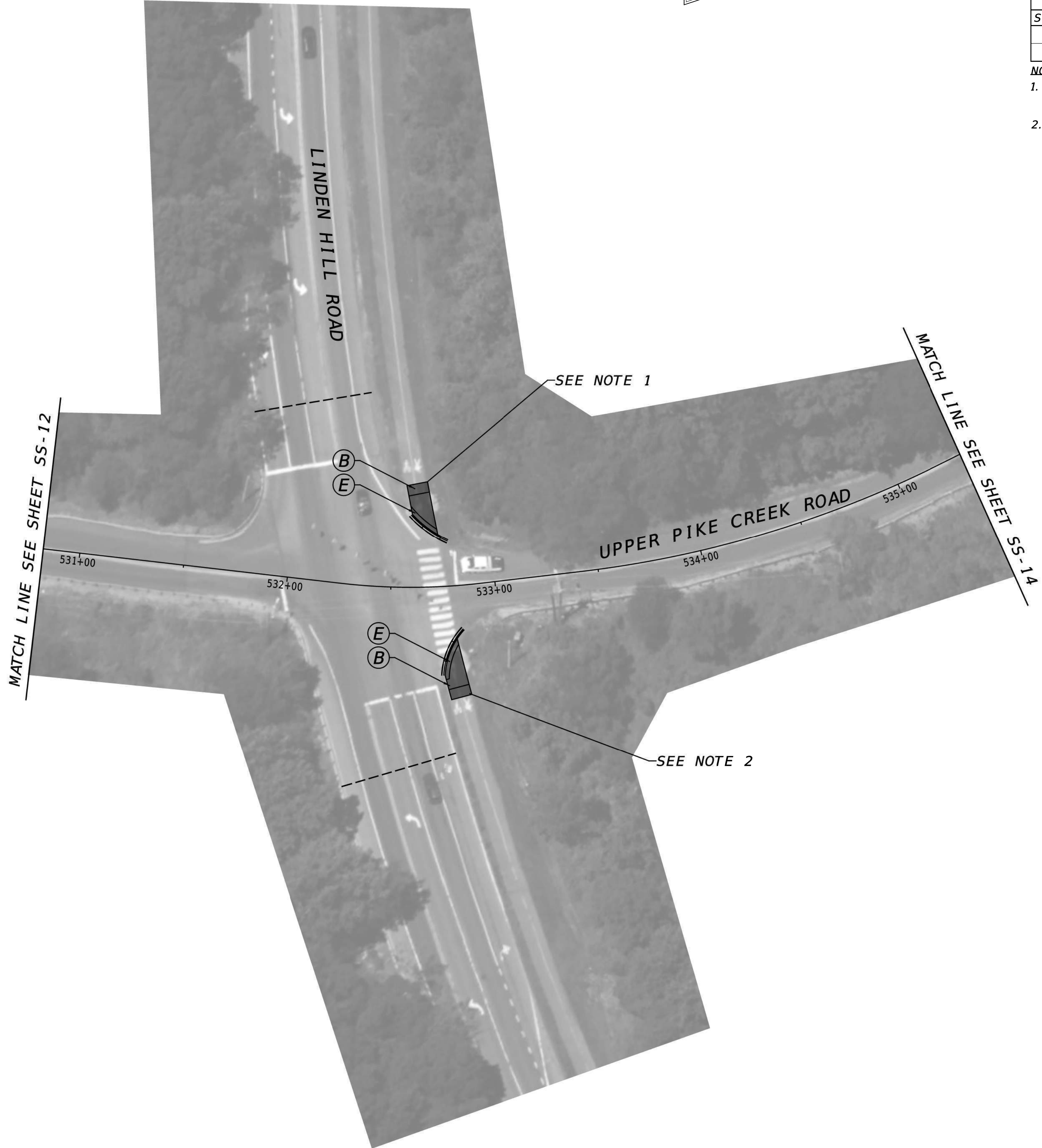
GR-18
SECTION
JMT
SHEET NO.
62



SYMBOL	ITEM
(B)	BLENDED TRANSITION/ SIDEWALK - RUNNING SLOPES MAY NOT EXCEED 5%
(E)	DETECTABLE WARNING SURFACE

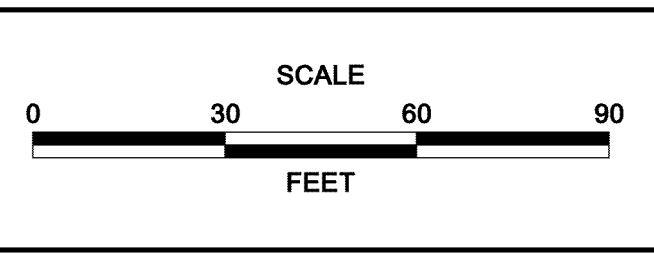
NOTES

1. THE PEDESTRIAN CONNECTION WAS FOUND TO BE NON-COMPLIANT DUE TO CROSS SLOPES (5%) WITHIN THE BLENDED TRANSITION EXCEEDING THE ALLOWABLE 2% FOR PEDESTRIAN CONNECTIONS WITH STOP OR YIELD CONTROL.
2. THE PEDESTRIAN CONNECTION WAS FOUND TO BE NON-COMPLIANT DUE TO CROSS SLOPES (4%) WITHIN THE BLENDED TRANSITION EXCEEDING THE ALLOWABLE 2% FOR PEDESTRIAN CONNECTIONS WITH STOP OR YIELD CONTROL.



7-AUG-2024 22:59 pwt://jmt-pw-bentley.com/jmt-pw-01/Documents/Projects/2019/19-00797-002/JMT/General/2D Drawing/ADA Design/PR - Upper Pike Creek Rd_North Star Rd.dgn

ADDENDUMS / REVISIONS

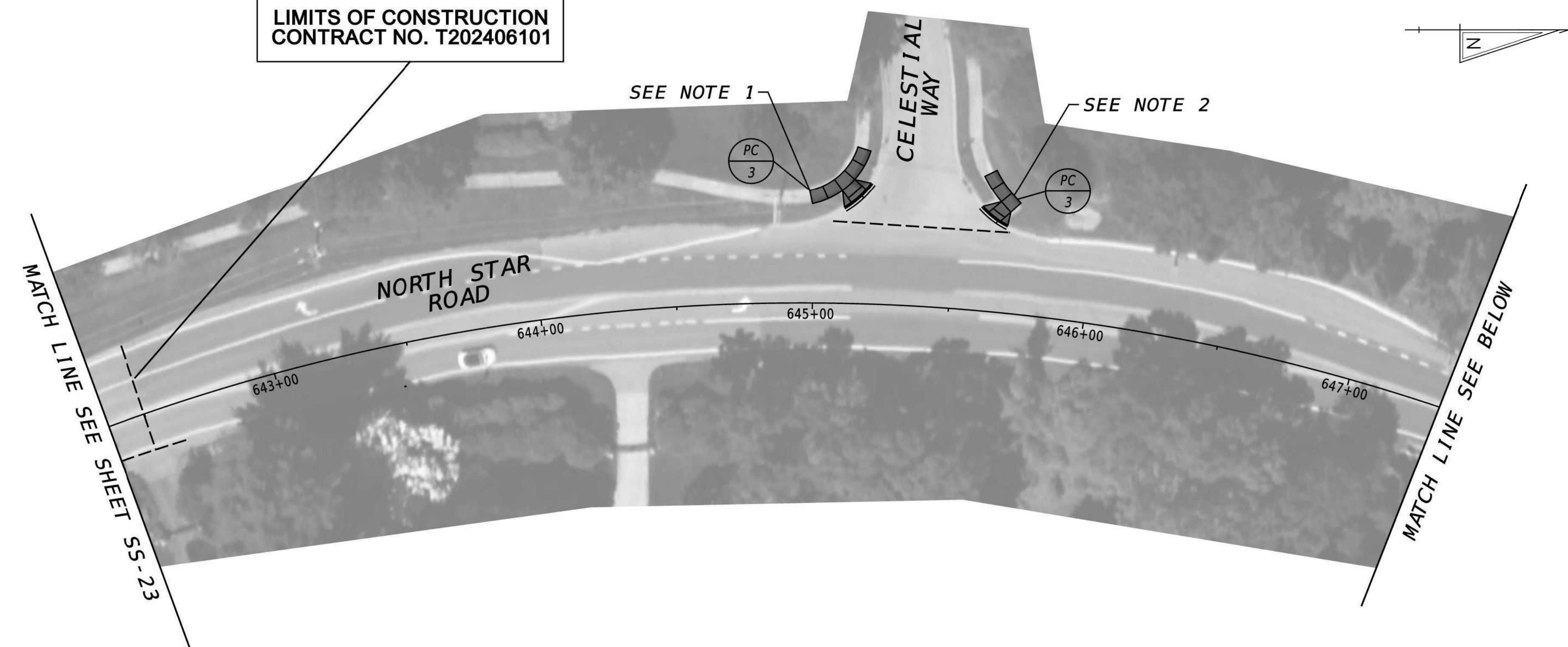


**PAVEMENT & REHABILITATION
NORTH I - UPPER PIKE CREEK
ROAD/NORTH STAR ROAD**

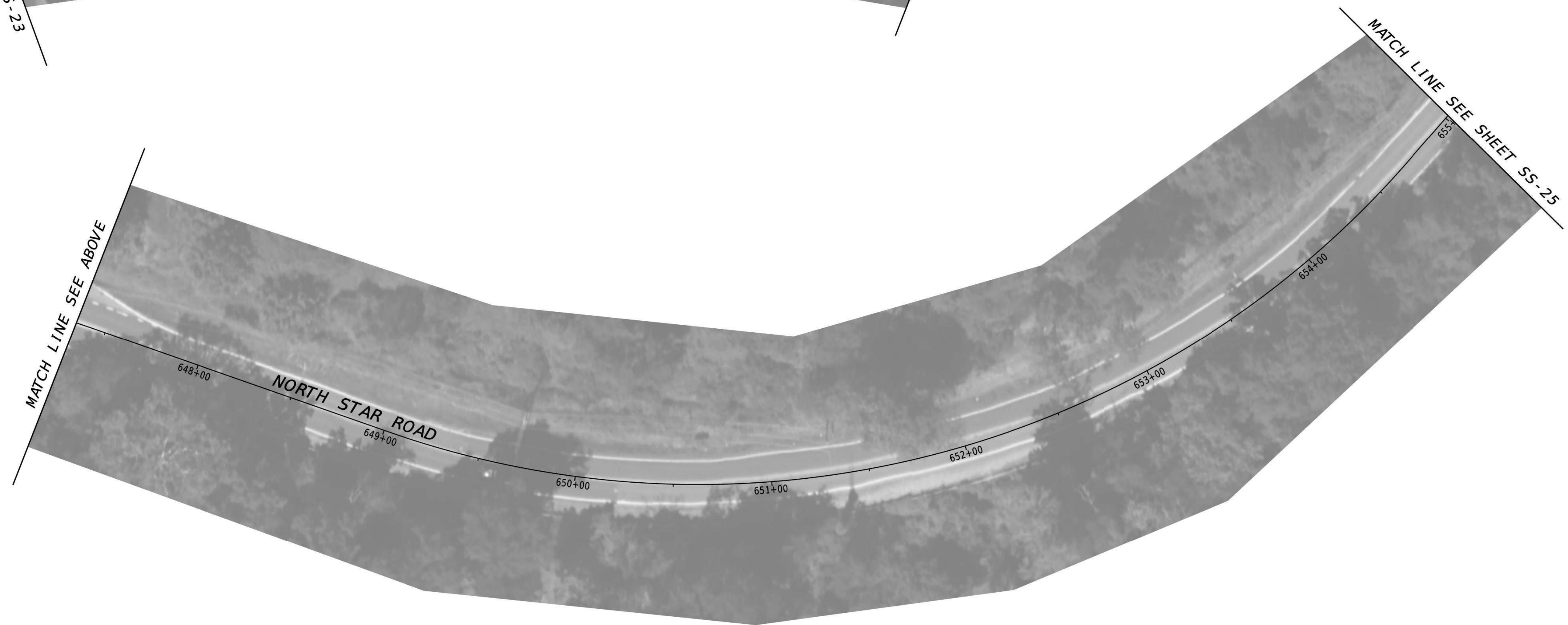
CONTRACT	ROAD NO.	N295
T202406101.02	DESIGNED BY:	M. TAPLIN
COUNTY	CHECKED BY:	B. DOUGHERTY
NEW CASTLE		

PEDESTRIAN IMPROVEMENT PLAN	SECTION	PIP-07
	JMT	
	SHEET NO.	63

LIMITS OF CONSTRUCTION
CONTRACT NO. T202406101

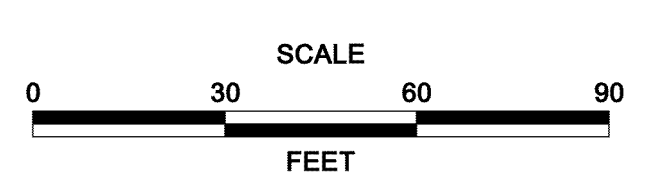


- NOTES**
1. THE PEDESTRIAN CONNECTION WAS FOUND TO BE NON-COMPLIANT DUE TO CROSS SLOPES (8.8%) WITHIN THE RAMP SEGMENT EXCEEDING THE ALLOWABLE 2% FOR PEDESTRIAN CONNECTIONS WITH STOP OR YIELD CONTROL.
 2. THE PEDESTRIAN CONNECTION WAS FOUND TO BE NON-COMPLIANT DUE TO CROSS SLOPES (6.1%) WITHIN THE RAMP SEGMENT EXCEEDING THE ALLOWABLE 2% FOR PEDESTRIAN CONNECTIONS WITH STOP OR YIELD CONTROL, AND COUNTER SLOPE (18%) EXCEEDING THE ALLOWABLE 5%.



7-AUG-2024 23:00 pwl/jmt/pw.bentley.com:jmt-pw-01/Documents/Projects/2019/19-00797-002/JMT/General/2D Drawing/ADA Design/PR - Upper Pike Creek Rd_North Star Rd.dgn

ADDENDUMS / REVISIONS



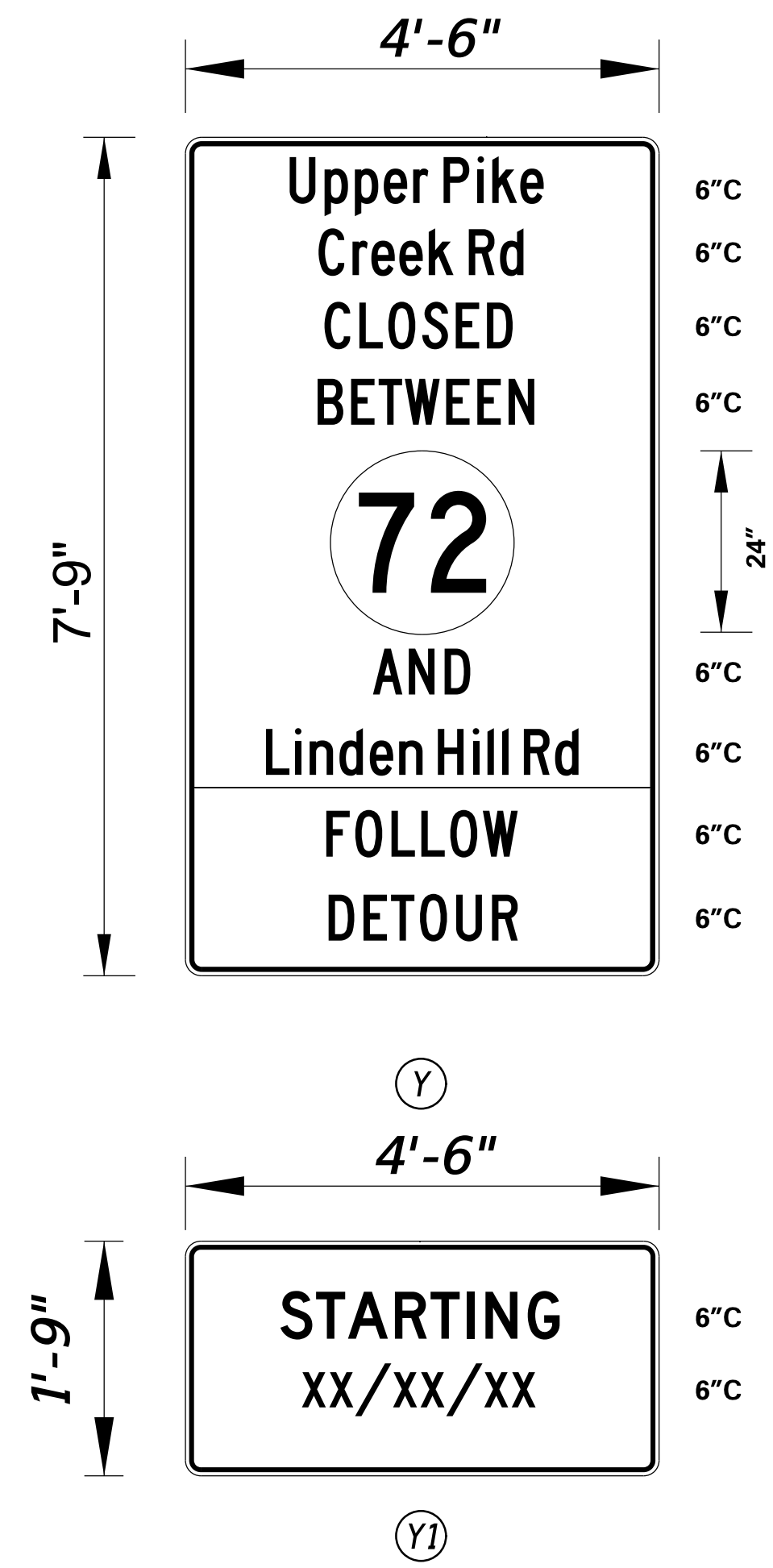
**PAVEMENT & REHABILITATION
NORTH I - UPPER PIKE CREEK
ROAD/NORTH STAR ROAD**

CONTRACT	ROAD NO.	N295
T202406101.02	DESIGNED BY:	M. TAPLIN
COUNTY	CHECKED BY:	B. DOUGHERTY
NEW CASTLE		

**PEDESTRIAN
IMPROVEMENT
PLAN**

PIP-08
SECTION
JMT
SHEET NO.
64

SPECIAL SIGNS



- ALL SIGNS SHALL BE BLACK ON RETROREFLECTIVE PRISMATIC FLUORESCENT ORANGE.
- DISPLAY SIGN "Y" THAT INCLUDES THE "Y1" PLAQUES AT CLOSURE POINT LOCATIONS FOR 10 DAYS PRIOR TO IMPLEMENTATION OF DETOUR
- "Y1" PLAQUE TO BE REMOVED AFTER IMPLEMENTATION OF DETOUR
- "Y1" PLAQUE TO COMPLETELY COVER "FOLLOW DETOUR" LEGEND OF "Y" SIGN
- THE FABRICATION OF SIGN "Y" AND "Y1" SHALL BE PAID UNDER ITEM #818001. THE INSTALLATION AND REMOVAL OF THE SIGNS SHALL BE INCIDENTAL TO THE ITEM #818001. THE FURNISHING OF THE SIGN POSTS SHALL BE INCIDENTAL TO ITEM #818001.

PREPARED BY
JMT

James D. Smith Jr.

2/1/2024
DATE



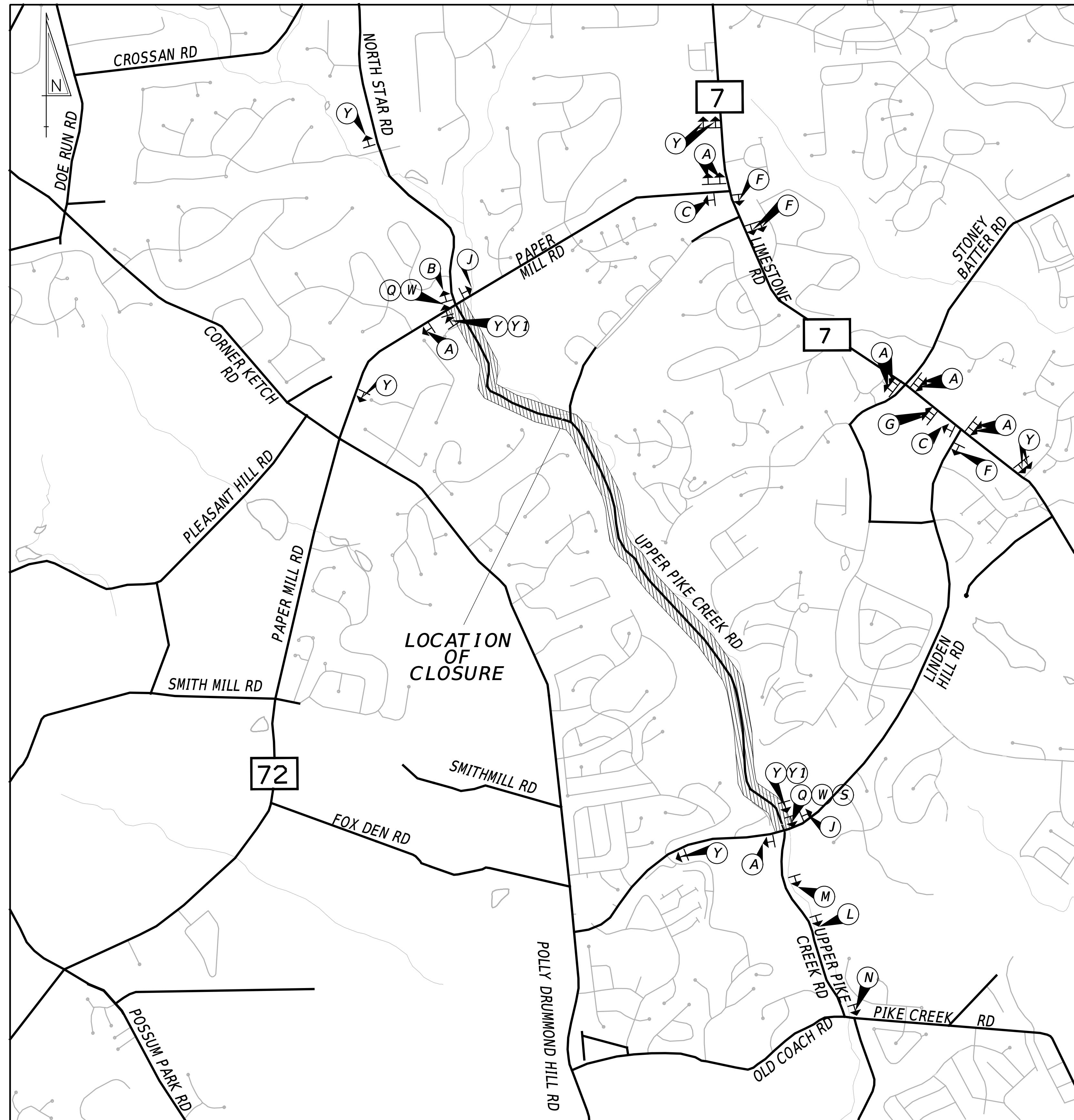
SEAL

Mir Ali Wahed

2/1/2024
DATE

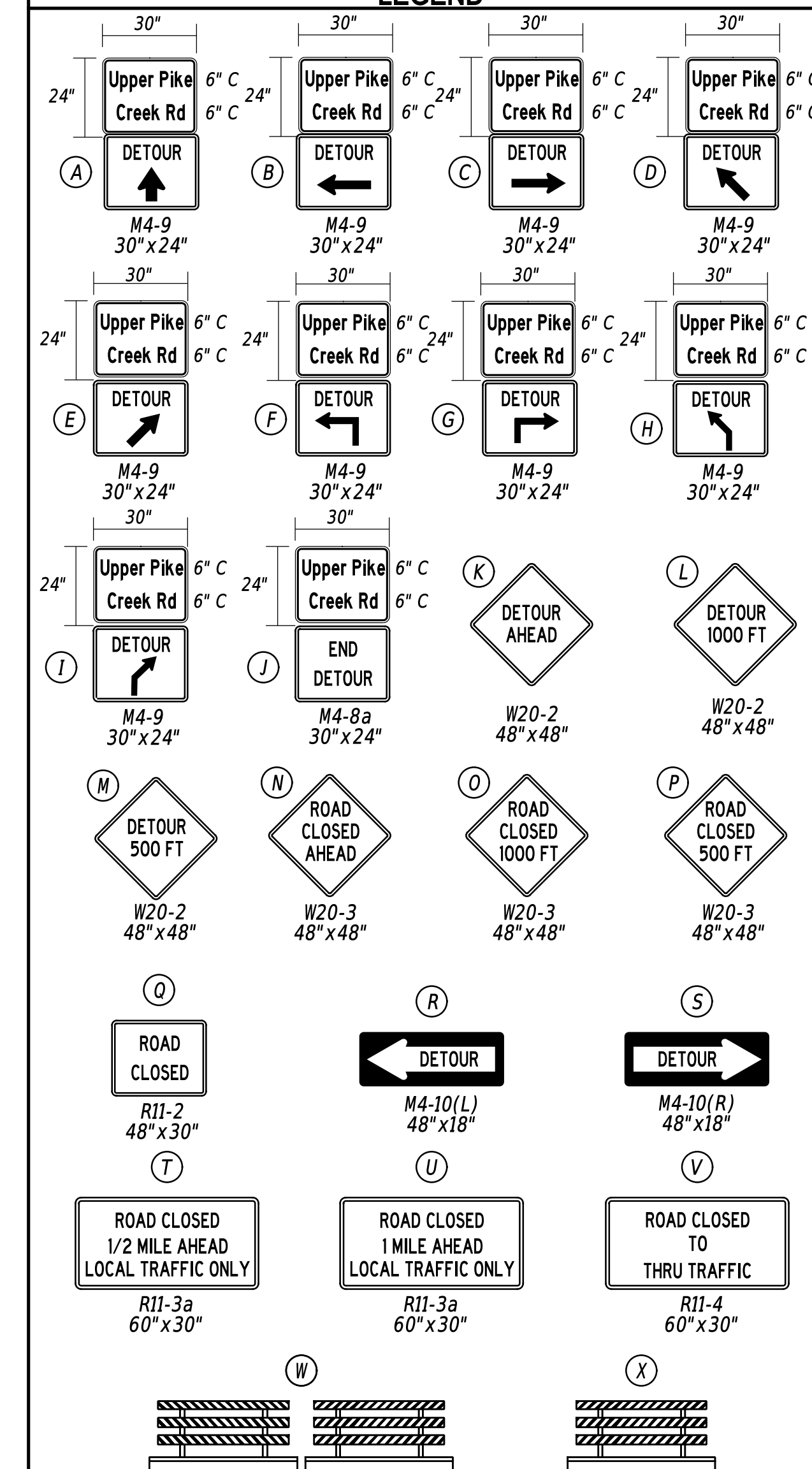
QA/QC

I CERTIFY TO THE BEST OF MY KNOWLEDGE AND BELIEF THAT THIS DETOUR PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE DELAWARE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.



ACCESS TO RESIDENTIAL AND COMMERCIAL DRIVEWAYS SHALL BE MAINTAINED AT ALL TIMES. DETOUR IS INTENDED FOR NON-LOCAL TRAFFIC. THE INTERSECTION AT PAPER MILL ROAD AND UPPER PIKE CREEK ROAD/NORTH STAR ROAD MUST BE MAINTAINED DURING CONSTRUCTION.

LEGEND



GENERAL NOTES

- ALL TEMPORARY TRAFFIC CONTROL DEVICES ARE TO BE SUPPLIED AND MAINTAINED BY THE GENERAL CONTRACTOR AND SHALL BE IN COMPLIANCE WITH THIS PLAN AND THE DELAWARE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (DE MUTCD) LATEST EDITION.
- "W" TYPE 3 BARRICADES AT A ROAD CLOSURE SHALL BE PLACED COMPLETELY ACROSS THE ROADWAY, FROM CURB TO CURB OR FROM EDGE OF ROAD TO EDGE OF ROAD, WITH THE STRIPES POSITIONED DOWNWARD TOWARD THE CENTER OF THE ROADWAY.
- BARRICADES SHALL BE A MINIMUM OF 6 FEET WIDE UNLESS DIRECTED BY THE ENGINEER.
- "DETOUR" PLAQUES (M4-8), "ARROW" PLAQUES (M5/M6 SERIES) AND UPPER PIKE CREEK ROAD SIGNS SHALL BE BLACK LEGEND ON RETROREFLECTIVE PRISMATIC FLUORESCENT ORANGE BACKGROUND.

DETOUR DESCRIPTION

(TO BE USED ON ROAD CLOSURE NOTIFICATION AND TRAFFIC ALERT BY ENGINEER)
MOTORISTS WANTING TO TRAVEL NORTH ON UPPER PIKE CREEK ROAD WILL TURN RIGHT ONTO LINDEN HILL ROAD, TURN LEFT ONTO NORTHBOUND SR 7 (LIMESTONE ROAD), AND TURN LEFT ONTO PAPER MILL ROAD, RETURNING TO UPPER PIKE CREEK ROAD
MOTORISTS WANTING TO TRAVEL SOUTH ON UPPER PIKE CREEK ROAD WILL TURN LEFT ONTO PAPER MILL ROAD, TURN RIGHT ONTO SOUTHBOUND SR 7 (LIMESTONE ROAD), AND TURN RIGHT ONTO LINDEN HILL ROAD, RETURNING TO UPPER PIKE CREEK ROAD

CONCURRENCE FOR IMPLEMENTATION

James Wynn

2/2/2024
DATE

TRAFFIC SAFETY

ADDENDUMS / REVISIONS

NOT TO SCALE

PAVEMENT & REHABILITATION
NORTH I, 2024
UPPER PIKE CREEK ROAD

CONTRACT
T202406101.02
COUNTY
NEW CASTLE

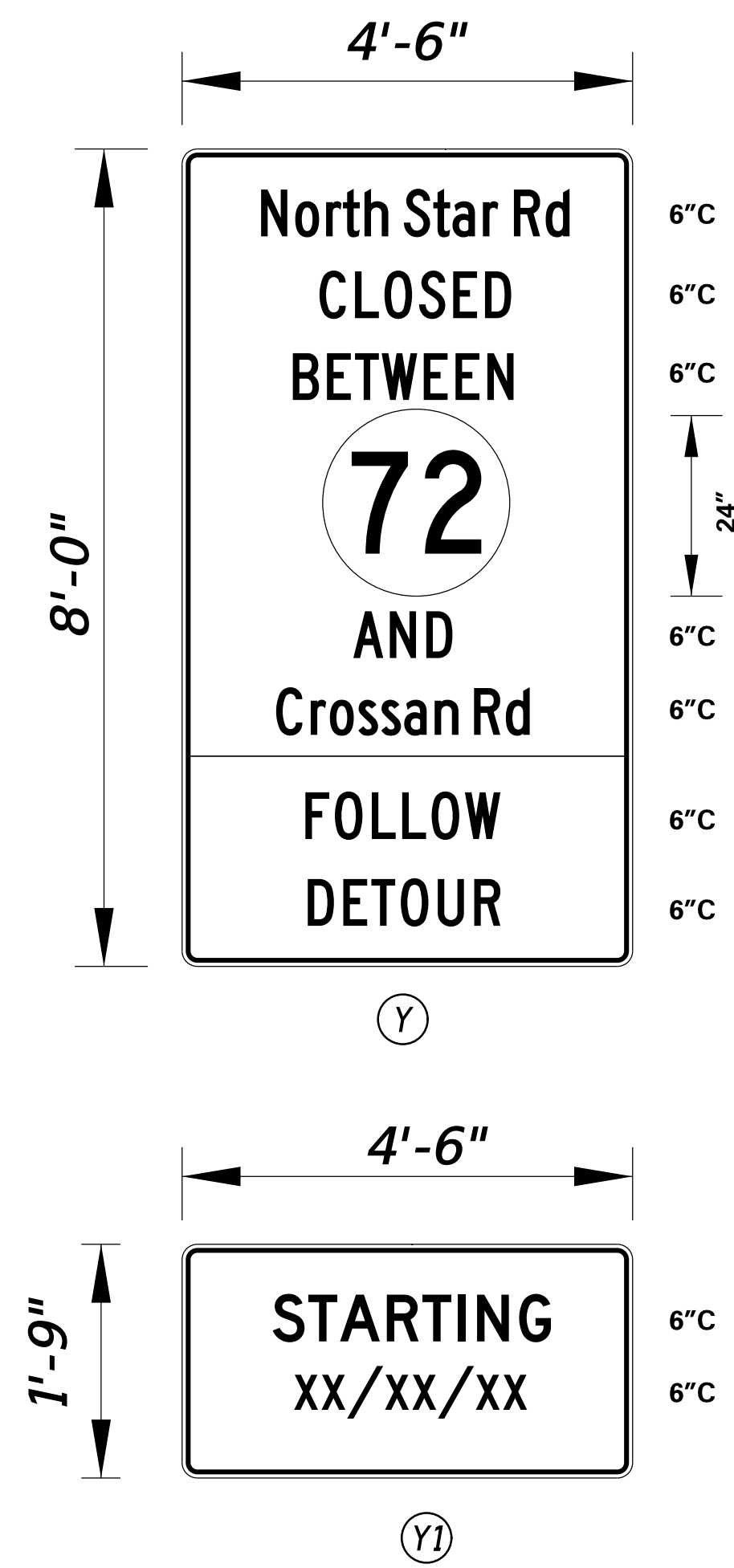
ROAD NO.
N295
DESIGNED BY: J. CLEM
CHECKED BY: J. SMITH

DETOUR PLAN A -
CLOSURE OF UPPER
PIKE CREEK ROAD
SOUTH OF SR 72

SECTION
JMT
SHEET NO.
65

1/30/2024 11:06:35 AM Q:\2024\190797_002_NCC_Signing_and_StripCAD\Detour Plans\DP.dgn

SPECIAL SIGNS

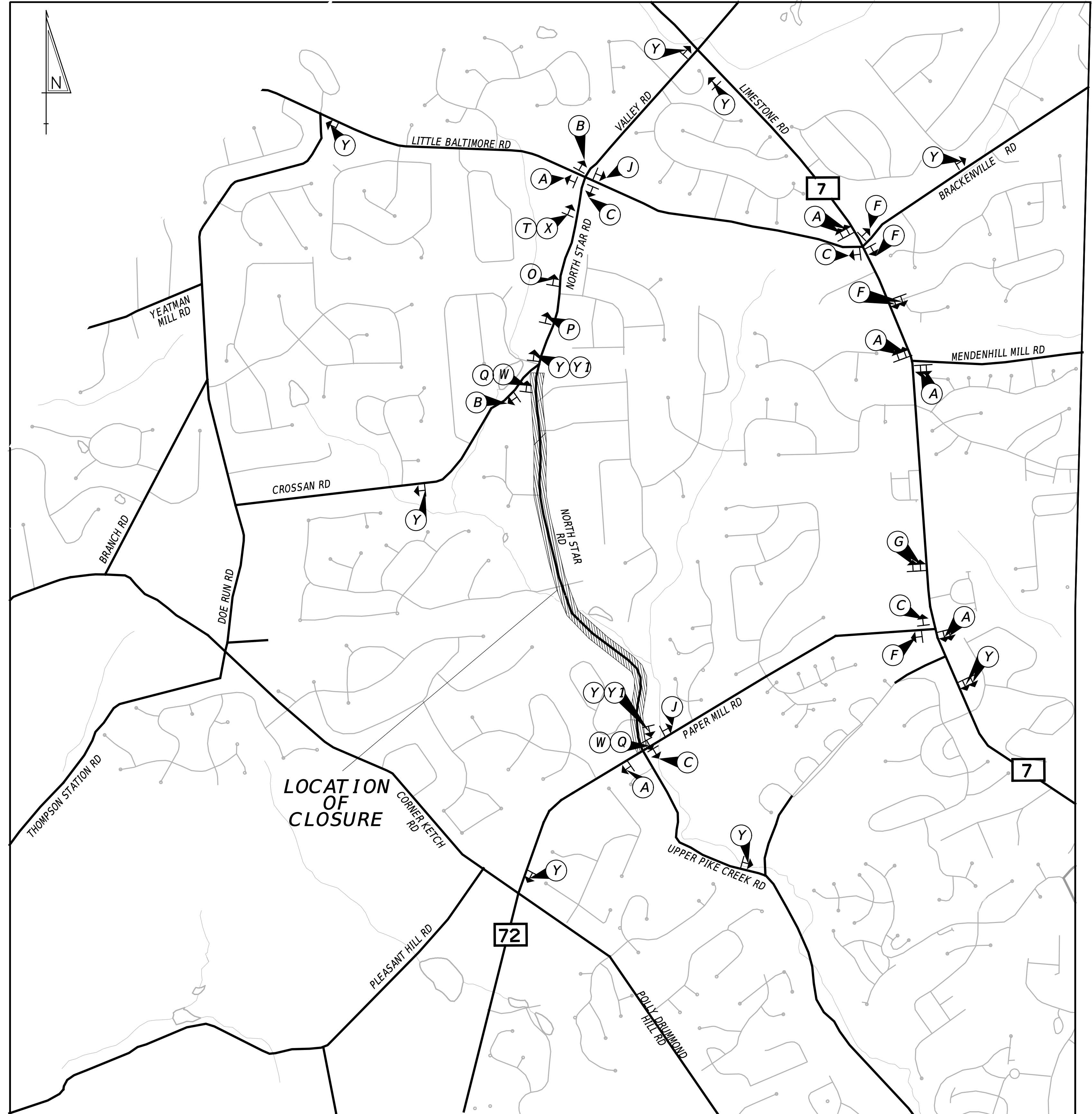


-ALL SIGNS SHALL BE BLACK ON RETROREFLECTIVE PRISMATIC FLUORESCENT ORANGE.
 -DISPLAY SIGN "Y" THAT INCLUDES THE "Y1" PLAQUES AT CLOSURE POINT LOCATIONS FOR 10 DAYS PRIOR TO IMPLEMENTATION OF DETOUR
 -"Y1" PLAQUE TO BE REMOVED AFTER IMPLEMENTATION OF DETOUR
 -"Y1" PLAQUE TO COMPLETELY COVER "FOLLOW DETOUR" LEGEND OF (Y) SIGN
 THE FABRICATION OF SIGN "Y" AND "Y1" SHALL BE PAID UNDER ITEM #818001. THE INSTALLATION AND REMOVAL OF THE SIGNS SHALL BE INCIDENTAL TO THE ITEM #818001. THE FURNISHING OF THE SIGN POSTS SHALL BE INCIDENTAL TO ITEM #818001.

PREPARED BY
 JMT
James D. Smith Jr.
 THIS SEAL ONLY APPLIES TO THIS DETOUR SHEET
 2/1/2024
 DATE

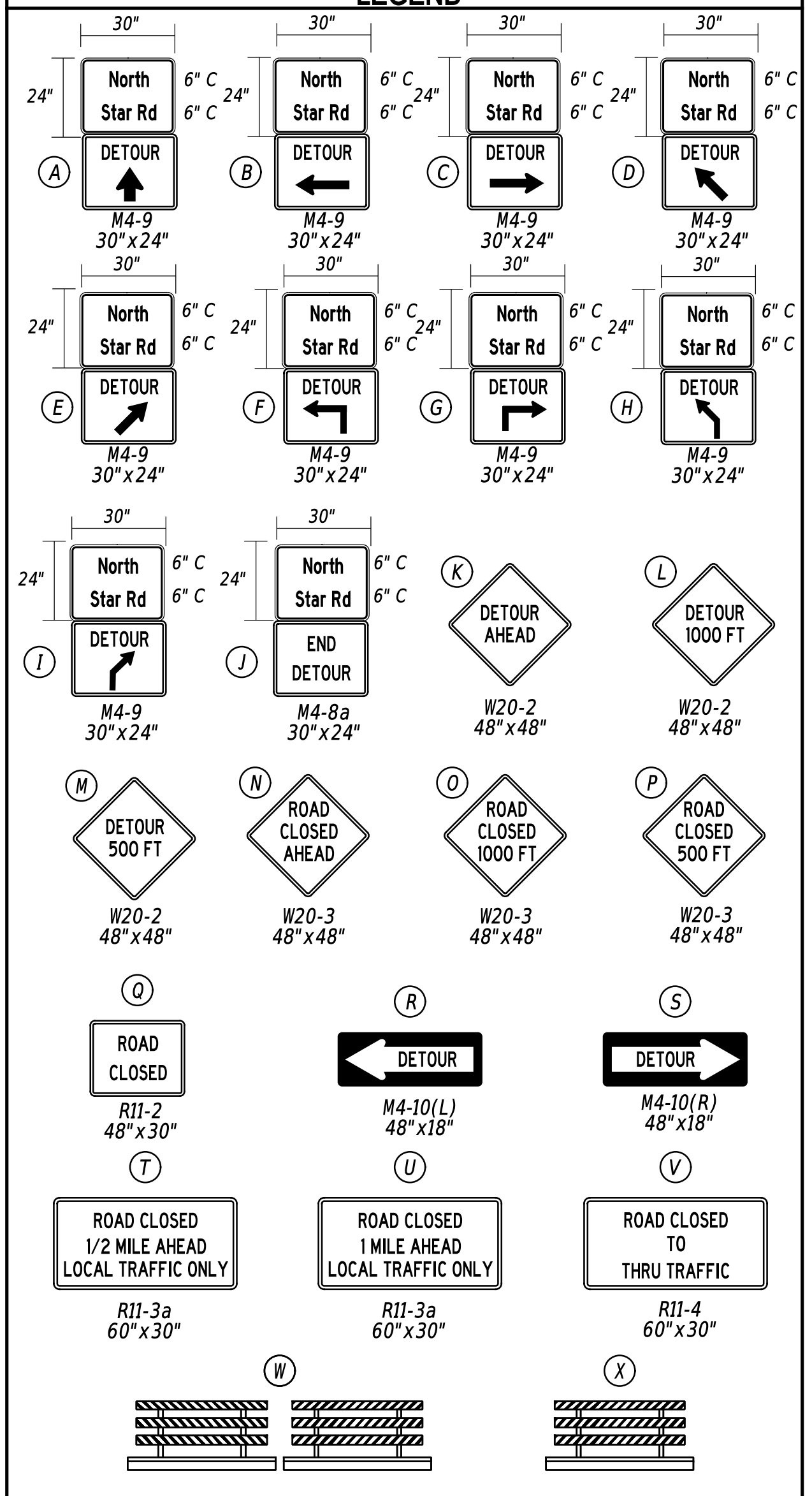


QA/QC
 DATE
 2/1/2024
 DATE
 I CERTIFY TO THE BEST OF MY KNOWLEDGE AND BELIEF THAT THIS DETOUR PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE DELAWARE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.



ACCESS TO RESIDENTIAL AND COMMERCIAL DRIVEWAYS SHALL BE MAINTAINED AT ALL TIMES. DETOUR IS INTENDED FOR NON-LOCAL TRAFFIC.
 THE INTERSECTION AT PAPER MILL ROAD AND UPPER PIKE CREEK ROAD/NORTH STAR ROAD MUST BE MAINTAINED DURING CONSTRUCTION.

LEGEND



GENERAL NOTES

- ALL TEMPORARY TRAFFIC CONTROL DEVICES ARE TO BE SUPPLIED AND MAINTAINED BY THE GENERAL CONTRACTOR AND SHALL BE IN COMPLIANCE WITH THIS PLAN AND THE DELAWARE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (DE MUTCD) LATEST EDITION.
- "W" TYPE 3 BARRICADES AT A ROAD CLOSURE SHALL BE PLACED COMPLETELY ACROSS THE ROADWAY, FROM CURB TO CURB OR FROM EDGE OF ROAD TO EDGE OF ROAD, WITH THE STRIPES POSITIONED DOWNWARD TOWARD THE CENTER OF THE ROADWAY.
- BARRICADES SHALL BE A MINIMUM OF 6 FEET WIDE UNLESS DIRECTED BY THE ENGINEER.
- "DETOUR" PLAQUES (M4-8), "ARROW" PLAQUES (M5/M6 SERIES) AND NORTH STAR ROAD SIGNS SHALL BE BLACK LEGEND ON RETROREFLECTIVE PRISMATIC FLUORESCENT ORANGE BACKGROUND.

DETOUR DESCRIPTION
 (TO BE USED ON ROAD CLOSURE NOTIFICATION AND TRAFFIC ALERT BY ENGINEER)
 MOTORISTS WANTING TO TRAVEL NORTH ON NORTH STAR ROAD WILL TURN RIGHT ONTO PAPER MILL ROAD, TURN LEFT ONTO NORTHBOUND SR 7 (LIMESTONE ROAD), AND TURN LEFT ONTO LITTLE BALTIMORE ROAD, RETURNING TO NORTH STAR ROAD
 MOTORISTS WANTING TO TRAVEL SOUTH ON NORTH STAR ROAD WILL TURN LEFT ONTO LITTLE BALTIMORE ROAD, TURN RIGHT ONTO SOUTHBOUND SR 7 (LIMESTONE ROAD), AND TURN RIGHT ONTO PAPER MILL ROAD, RETURNING TO NORTH STAR ROAD

CONCURRENCE FOR IMPLEMENTATION

James W. Wynn
 TRAFFIC SAFETY
 DATE
 2/2/2024

1/30/2024 11:06:37 AM Q:\2019\1900797_002_NCC_Signing_and_StripCAD\Detour Plans\DP.dgn

ADDENDUMS / REVISIONS

NOT TO SCALE

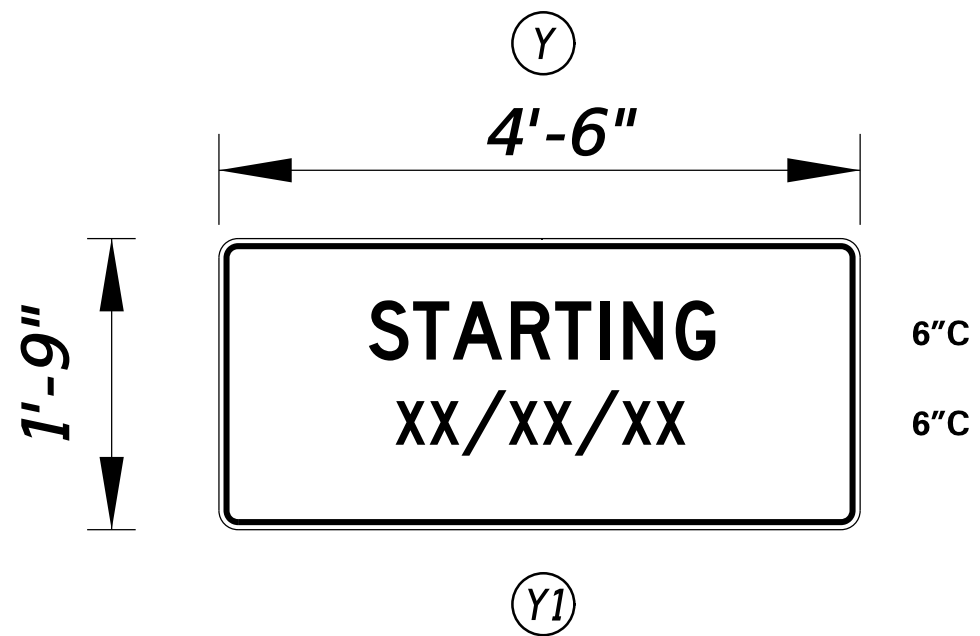
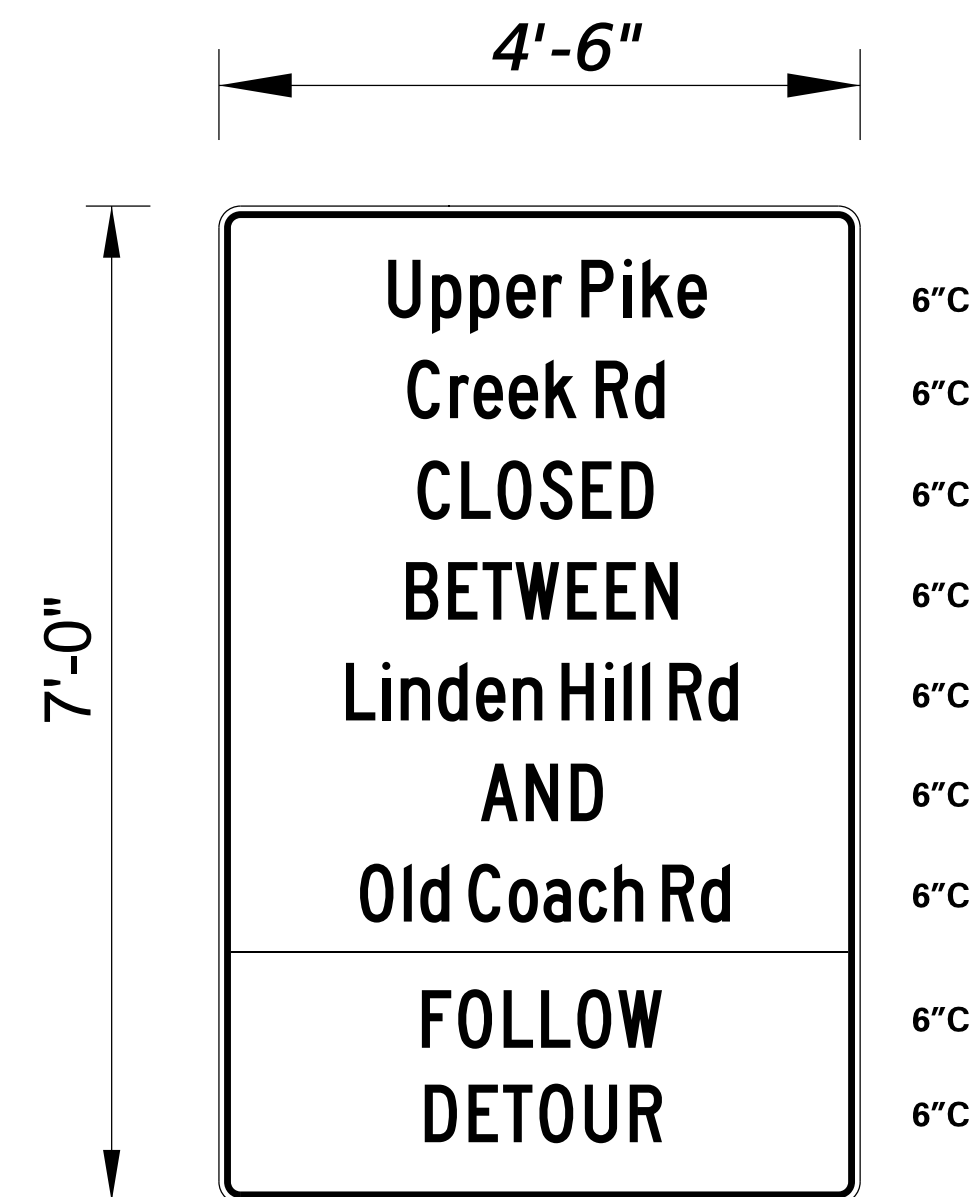
PAVEMENT & REHABILITATION
 NORTH I, 2024
 UPPER PIKE CREEK ROAD

CONTRACT
 T202406101.02
 COUNTY
 NEW CASTLE
 ROAD NO.
 N295
 DESIGNED BY: J. CLEM
 CHECKED BY: J. SMITH

DETOUR PLAN B -
 CLOSURE OF UPPER
 PIKE CREEK ROAD
 NORTH OF SR 72

SECTION
 JMT
 SHEET NO.
 66

SPECIAL SIGNS



-ALL SIGNS SHALL BE BLACK ON RETROREFLECTIVE PRISMATIC FLUORESCENT ORANGE.

-DISPLAY SIGN "Y" THAT INCLUDES THE "Y1" PLAQUES AT CLOSURE POINT LOCATIONS FOR 10 DAYS PRIOR TO IMPLEMENTATION OF DETOUR

-"Y1" PLAQUE TO BE REMOVED AFTER IMPLEMENTATION OF DETOUR

-"Y1" PLAQUE TO COMPLETELY COVER 'FOLLOW DETOUR' LEGEND OF "Y" SIGN

-THE FABRICATION OF SIGN "Y" AND "Y1" SHALL BE PAID UNDER ITEM #818001. THE INSTALLATION AND REMOVAL OF THE SIGNS SHALL BE INCIDENTAL TO THE ITEM #818001. THE FURNISHING OF THE SIGN POSTS SHALL BE INCIDENTAL TO ITEM #818001.

PREPARED BY

JMT

James D. Smith Jr.

2/1/2024
DATE



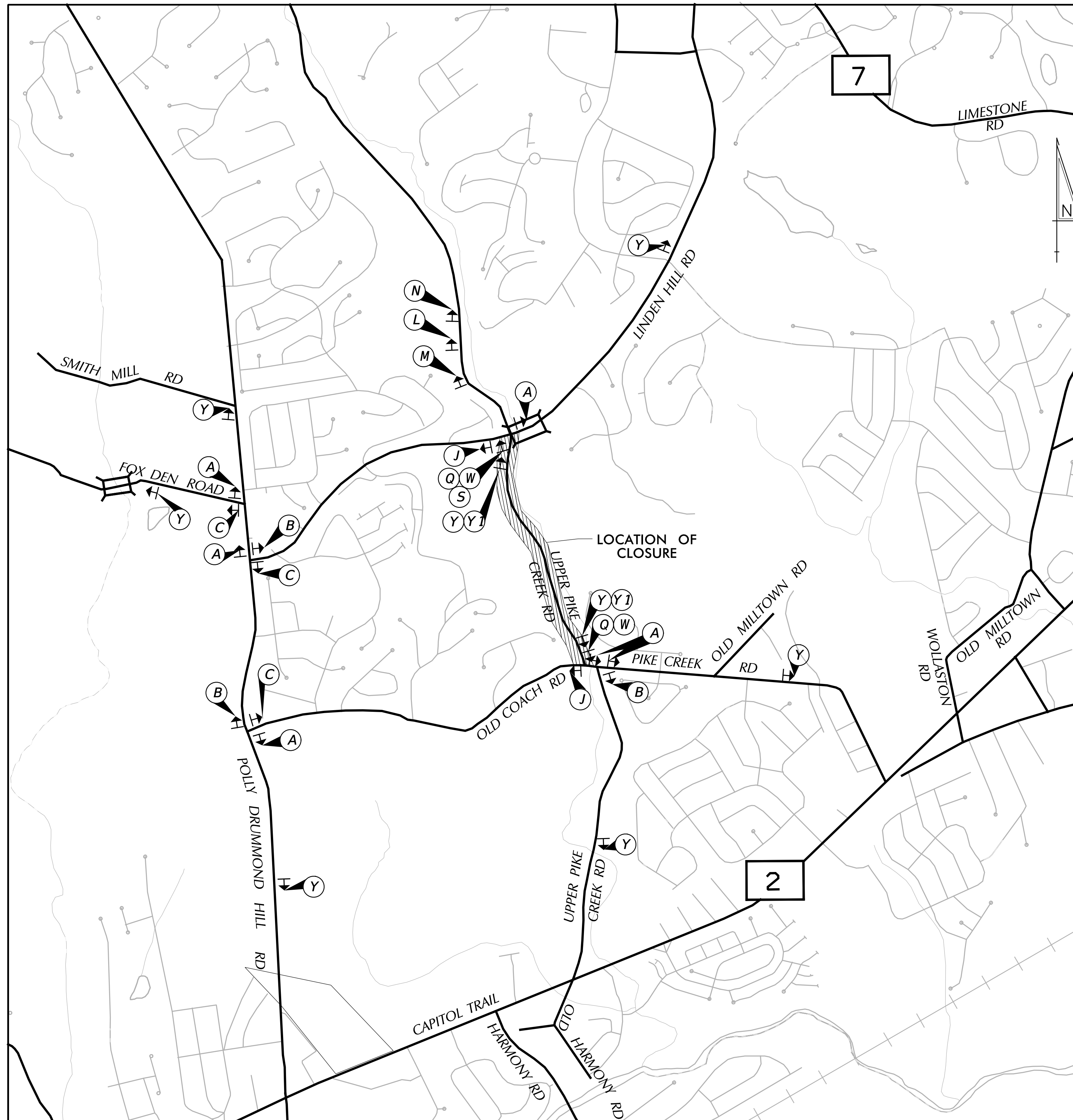
SEAL

Mir Akh Wahed

2/1/2024
DATE

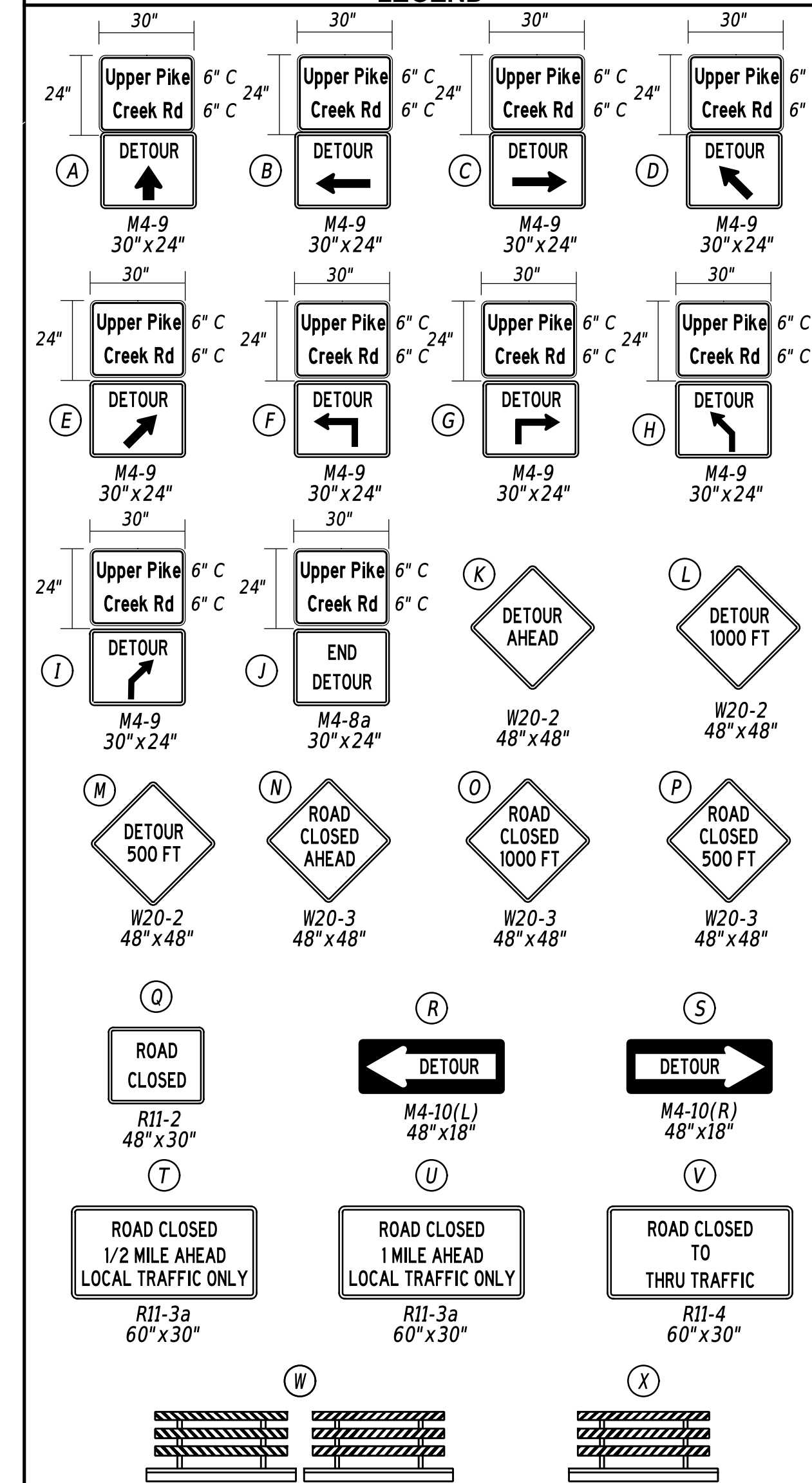
QA/QC

I CERTIFY TO THE BEST OF MY KNOWLEDGE AND BELIEF THAT THIS DETOUR PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE DELAWARE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.



ACCESS TO RESIDENTIAL AND COMMERCIAL DRIVEWAYS SHALL BE MAINTAINED AT ALL TIMES. DETOUR IS INTENDED FOR NON-LOCAL TRAFFIC. THE INTERSECTION AT PAPER MILL ROAD AND UPPER PIKE CREEK ROAD/NORTH STAR ROAD MUST BE MAINTAINED DURING CONSTRUCTION.

LEGEND



GENERAL NOTES

- ALL TEMPORARY TRAFFIC CONTROL DEVICES ARE TO BE SUPPLIED AND MAINTAINED BY THE GENERAL CONTRACTOR AND SHALL BE IN COMPLIANCE WITH THIS PLAN AND THE DELAWARE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (DE MUTCD) LATEST EDITION.
- "W" TYPE 3 BARRICADES AT A ROAD CLOSURE SHALL BE PLACED COMPLETELY ACROSS THE ROADWAY, FROM CURB TO CURB OR FROM EDGE OF ROAD TO EDGE OF ROAD, WITH THE STRIPES POSITIONED DOWNWARD TOWARD THE CENTER OF THE ROADWAY.
- BARRICADES SHALL BE A MINIMUM OF 6 FEET WIDE UNLESS DIRECTED BY THE ENGINEER.
- "DETOUR" PLAQUES (M4-8), "ARROW" PLAQUES (M5/M6 SERIES) AND UPPER PIKE CREEK ROAD SIGNS SHALL BE BLACK LEGEND ON RETROREFLECTIVE PRISMATIC FLUORESCENT ORANGE BACKGROUND.

DETOUR DESCRIPTION

(TO BE USED ON ROAD CLOSURE NOTIFICATION AND TRAFFIC ALERT BY ENGINEER)

MOTORISTS WANTING TO TRAVEL NORTH ON UPPER PIKE CREEK ROAD WILL TURN LEFT ONTO OLD COACH ROAD, TURN RIGHT ONTO POLLY DRUMMOND HILL ROAD, AND TURN RIGHT ONTO LINDEN HILL ROAD, RETURNING TO UPPER PIKE CREEK ROAD

MOTORISTS WANTING TO TRAVEL SOUTH ON UPPER PIKE CREEK ROAD WILL TURN RIGHT ONTO LINDEN HILL ROAD, TURN LEFT ONTO POLLY DRUMMOND HILL ROAD, AND TURN RIGHT ONTO OLD COACH ROAD, RETURNING TO UPPER PIKE CREEK ROAD

CONCURRENCE FOR IMPLEMENTATION

James Wynn

2/2/2024

TRAFFIC SAFETY

DATE

ADDENDUMS / REVISIONS

NOT TO SCALE

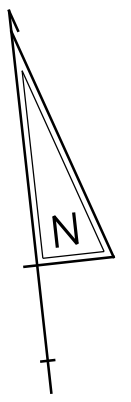
PAVEMENT & REHABILITATION
NORTH I, 2024
UPPER PIKE CREEK ROAD

CONTRACT
T202406101.02
COUNTY
NEW CASTLE

ROAD NO.
N295
DESIGNED BY: J. CLEM
CHECKED BY: J. SMITH

DETOUR PLAN C -
CLOSURE OF UPPER
PIKE CREEK ROAD
SOUTH OF LINDEN
HILL ROAD

SECTION
JMT
SHEET NO.
67

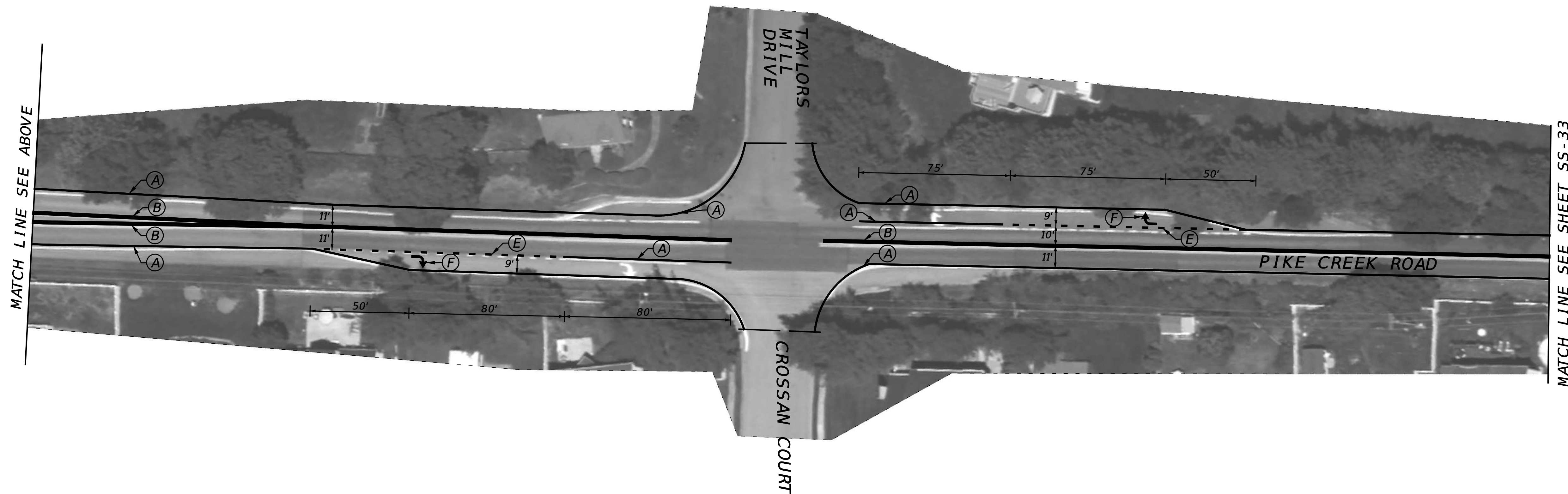
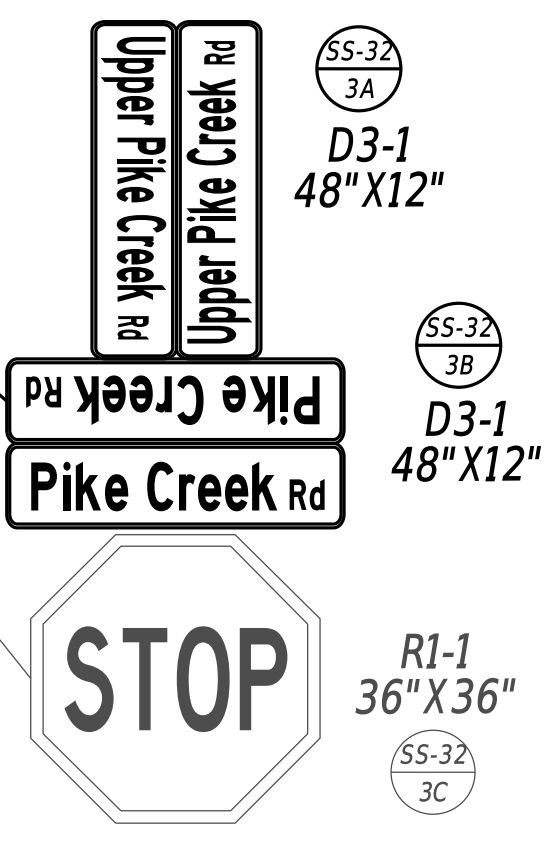
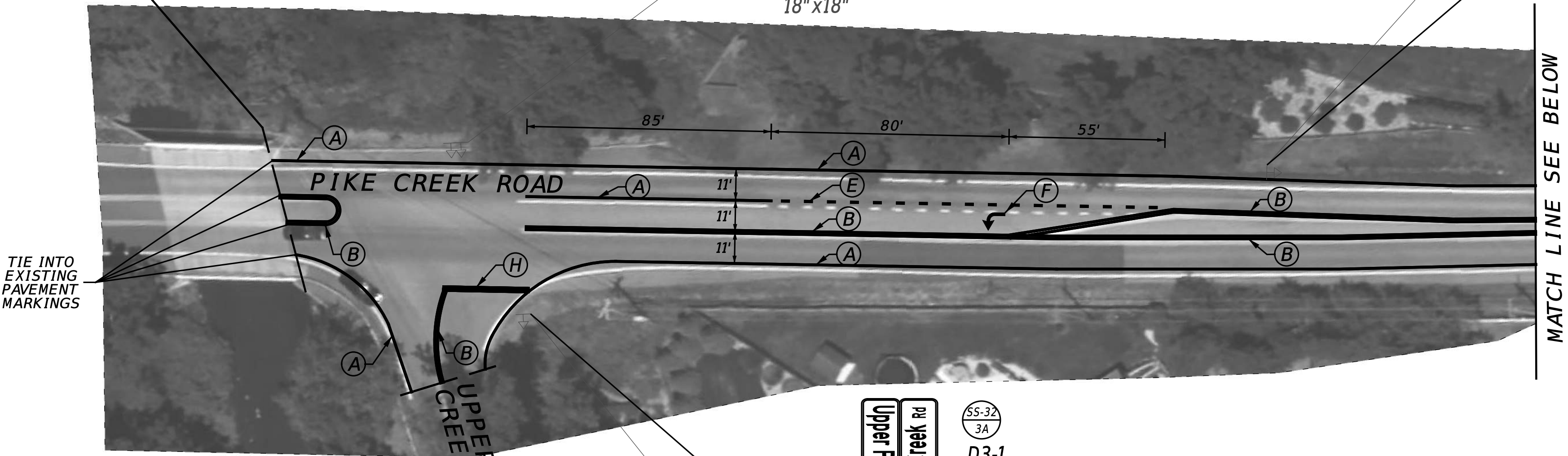


LIMITS OF CONSTRUCTION
CONTRACT NO. T202406101
MATCH EXISTING STRIPING



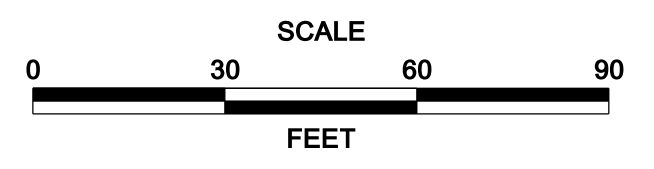
PAVEMENT MARKINGS LEGEND		
SYMBOL	DESCRIPTION	QUANTITY
(A)	EPOXY RESIN PAVEMENT STRIPING, WHITE 6" SOLID (ITEM 817042)	2,890 LF
(B)	EPOXY RESIN PAVEMENT STRIPING, YELLOW 6" SOLID DOUBLE (ITEM 817042)	3,160 LF
(E)	EPOXY RESIN PAVEMENT STRIPING, WHITE 6" DOTTED - 2' LINE & 6' GAP (ITEM 817042)	110 LF
(F)	ALKYD-THERMOPLASTIC PAVEMENT STRIPING, WHITE SYMBOL/LEGEND (ITEM 817002)	52 SF
(H)	ALKYD-THERMOPLASTIC PAVEMENT STRIPING, WHITE 16" SOLID (ITEM 817002)	45 SF

NOTES:
1. LANE NARROWS ON WESTBOUND PIKE CREEK ROAD APPROACHING TAYLORS MILL DRIVE.



STATES
TIMES
FILES

ADDENDUMS / REVISIONS

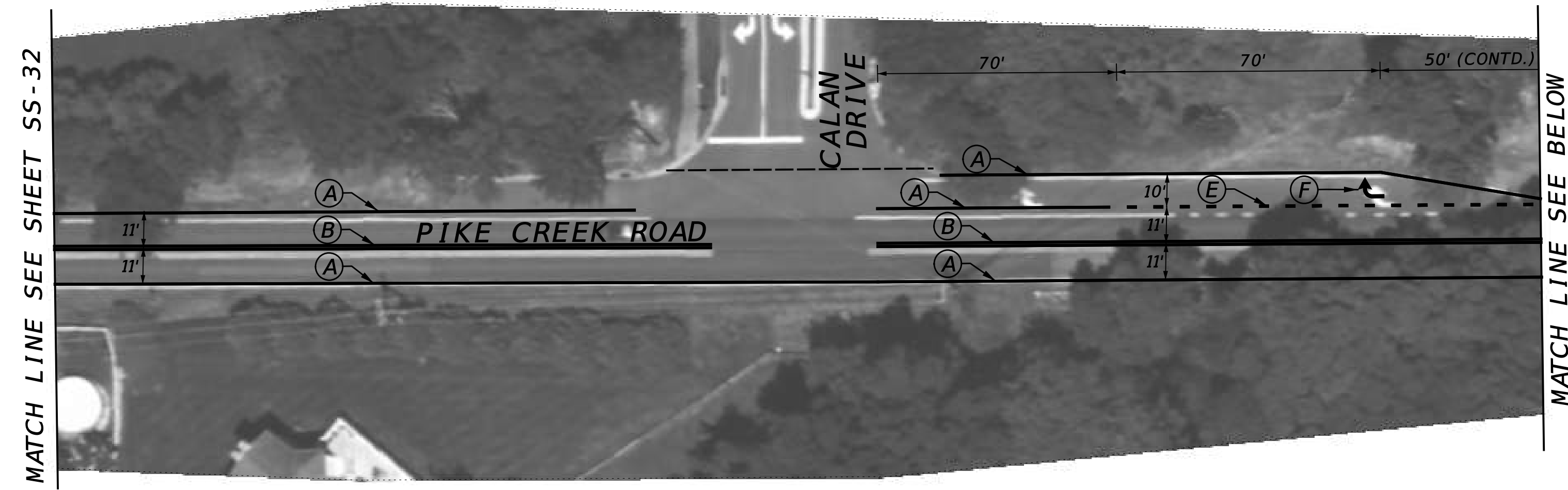
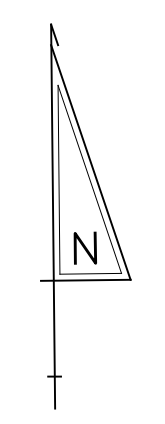


PAVEMENT & REHABILITATION
NORTH I, 2024
PIKE CREEK ROAD

CONTRACT	ROAD NO.	N316
T202406101.02	DESIGNED BY:	S. MILLER/ J. CLEM
COUNTY	CHECKED BY:	M. WAHED
NEW CASTLE		

SIGNING AND STRIPING PLAN

SS-32
SECTION
JMT
SHEET NO.
68

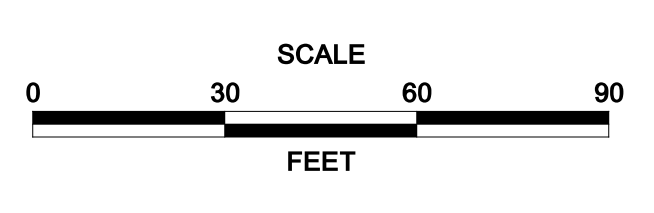


PAVEMENT MARKINGS LEGEND		
SYMBOL		QUANTITY
Ⓐ	EPOXY RESIN PAVEMENT STRIPING, WHITE 6" SOLID (ITEM 817042)	2,560 LF
Ⓑ	EPOXY RESIN PAVEMENT STRIPING, YELLOW 6" SOLID DOUBLE (ITEM 817042)	2,420 LF
Ⓔ	EPOXY RESIN PAVEMENT STRIPING, WHITE 6" DOTTED - 2' LINE & 6' GAP (ITEM 817042)	35 LF
Ⓕ	ALKYD-THERMOPLASTIC PAVEMENT STRIPING, WHITE SYMBOL/LEGEND (ITEM 817002)	16 SF



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ADDENDUMS / REVISIONS

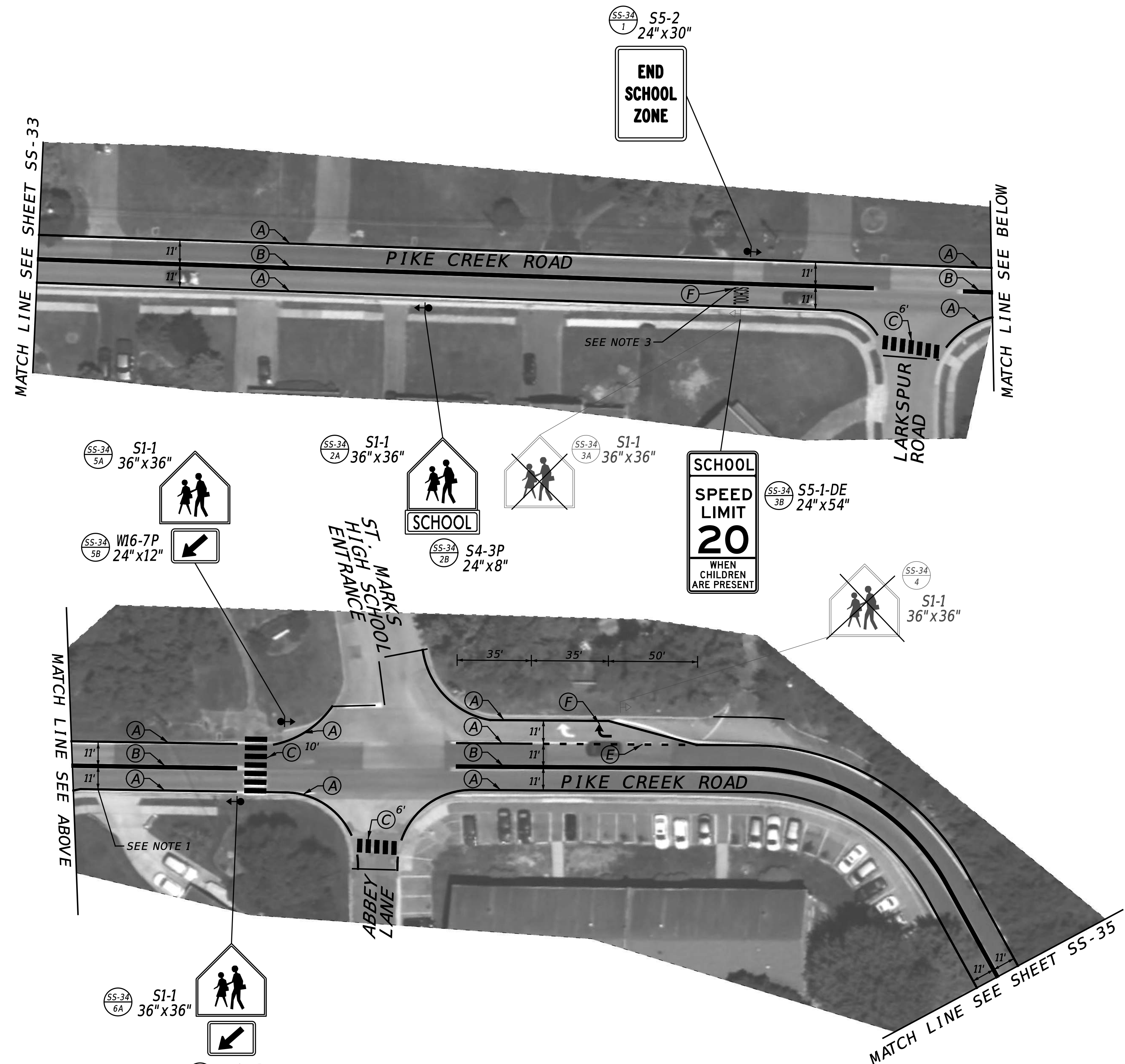


**PAVEMENT & REHABILITATION
NORTH I, 2024
PIKE CREEK ROAD**

CONTRACT	ROAD NO.	N316
T202406101.02	DESIGNED BY:	S. MILLER/ J. CLEM
COUNTY	CHECKED BY:	M. WAHED
NEW CASTLE		

SIGNING AND STRIPING PLAN	SECTION
	JMT
	SHEET NO.
	69

SS-33
SECTION
JMT
SHEET NO.
69

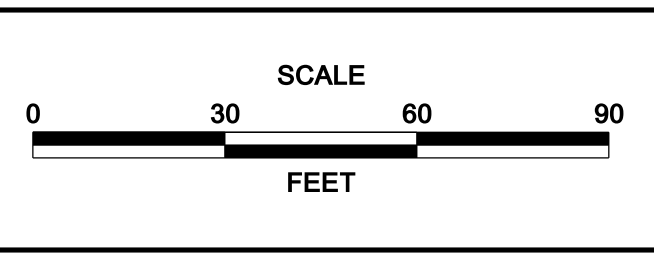


PAVEMENT MARKINGS LEGEND		
SYMBOL	DESCRIPTION	QUANTITY
(A)	EPOXY RESIN PAVEMENT STRIPING, WHITE 6" SOLID (ITEM 817042)	2,075 LF
(B)	EPOXY RESIN PAVEMENT STRIPING, YELLOW 6" SOLID DOUBLE (ITEM 817042)	1,715 LF
(C)	ALKYD-THERMOPLASTIC PAVEMENT STRIPING, WHITE 24" SOLID (ITEM 817002)	310 SF
(E)	EPOXY RESIN PAVEMENT STRIPING, WHITE 6" DOTTED - 2' LINE & 6' GAP (ITEM 817042)	25 LF
(F)	ALKYD-THERMOPLASTIC PAVEMENT STRIPING, WHITE SYMBOL/LEGEND (ITEM 817002)	51 SF

- NOTES:
- SIGNS 2A, 2B, 4, 6A, AND 6B SHALL BE FLUORESCENT YELLOW GREEN SIGNS.
 - ON SIGN 3B, "SCHOOL" SHALL BE BLACK LEGEND ON FLUORESCENT YELLOW GREEN BACKGROUND, "SPEED LIMIT 20" AND "WHEN CHILDREN ARE PRESENT" SHALL BE BLACK LEGEND ON WHITE BACKGROUND.
 - REFER TO SHEET 3, FIGURE 1 FOR DETAIL ON SCHOOL PAVEMENT MARKING.

STATES
TIMES
FILES

ADDENDUMS / REVISIONS

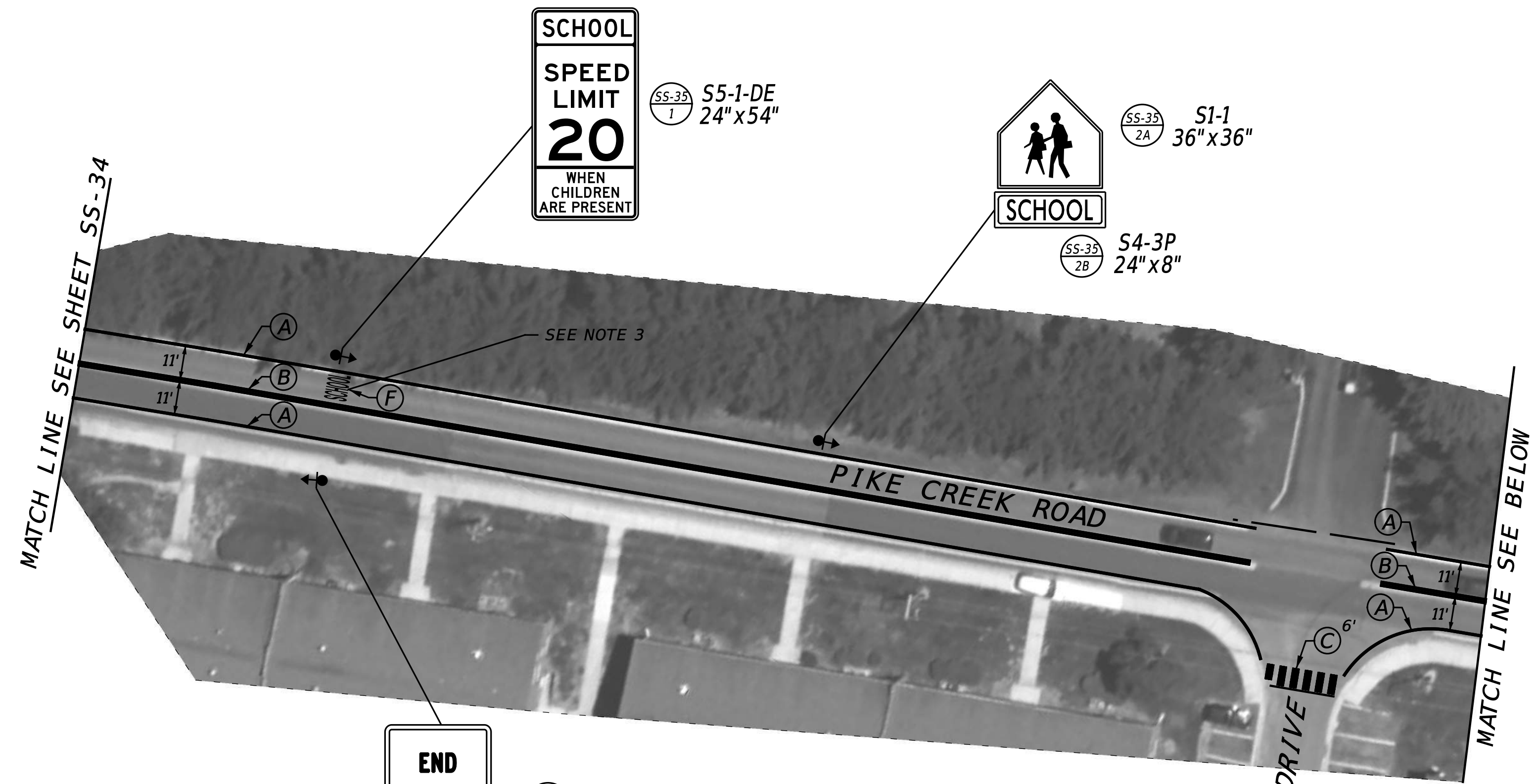
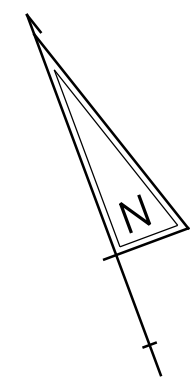


**PAVEMENT & REHABILITATION
NORTH I, 2024
PIKE CREEK ROAD**

CONTRACT	ROAD NO.	N316
T202406101.02	DESIGNED BY:	S. MILLER/ J. CLEM
COUNTY	CHECKED BY:	M. WAHED
NEW CASTLE		

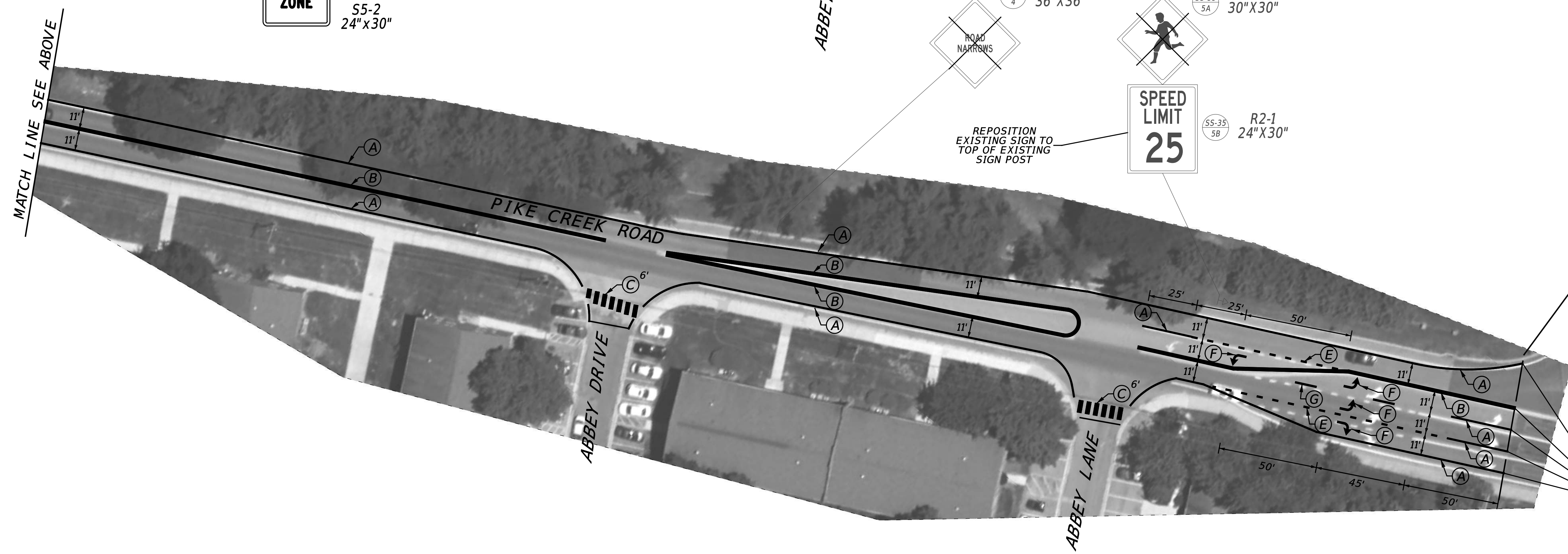
SIGNING AND STRIPING PLAN	SECTION	JMT
	SHEET NO.	70

SS-34



PAVEMENT MARKINGS LEGEND		
SYMBOL	DESCRIPTION	QUANTITY
(A)	EPOXY RESIN PAVEMENT STRIPING, WHITE 6" SOLID (ITEM 817042)	3,380 LF
(B)	EPOXY RESIN PAVEMENT STRIPING, YELLOW 6" SOLID DOUBLE (ITEM 817042)	2,255 LF
(C)	ALKYD-THERMOPLASTIC PAVEMENT STRIPING, WHITE 24" SOLID (ITEM 817002)	250 SF
(E)	EPOXY RESIN PAVEMENT STRIPING, WHITE 6" DOTTED - 2' LINE & 6' GAP (ITEM 817042)	75 LF
(F)	ALKYD-THERMOPLASTIC PAVEMENT STRIPING, WHITE SYMBOL/LEGEND (ITEM 817002)	70 SF
(G)	EPOXY RESIN PAVEMENT STRIPING, WHITE 6" DOTTED - 10' LINE & 30' GAP (ITEM 817042)	25 LF

- NOTES:
- SIGNS 2A AND 2B SHALL BE FLUORESCENT YELLOW GREEN SIGNS.
 - ON SIGN 1 "SCHOOL" SHALL BE BLACK LEGEND ON FLUORESCENT YELLOW GREEN BACKGROUND. "SPEED LIMIT 20" AND "WHEN CHILDREN ARE PRESENT" SHALL BE BLACK LEGEND ON WHITE BACKGROUND.
 - REFER TO SHEET 3, FIGURE 1 FOR DETAIL ON SCHOOL PAVEMENT MARKING.

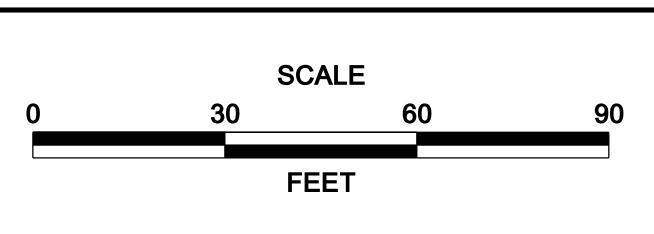


LIMITS OF CONSTRUCTION
CONTRACT NO. T202406101
MATCH EXISTING STRIPING

TIE INTO
EXISTING
PAVEMENT
MARKINGS

STATES
TIMES
FILES

ADDENDUMS / REVISIONS



**PAVEMENT & REHABILITATION
NORTH I, 2024
PIKE CREEK ROAD**

CONTRACT	ROAD NO.	N316
T202406101.02	DESIGNED BY:	S. MILLER/ J. CLEM
COUNTY	CHECKED BY:	M. WAHED
NEW CASTLE		

**SIGNING AND
STRIPING PLAN**

SS-35
SECTION
JMT
SHEET NO.
71

PERMANENT SIGN SCHEDULE - PIKE CREEK ROAD

SHEET NO.	PLAN IDENTIFIER	SIGN DESIGNATION	QTY.	DESCRIPTION	SIGN WIDTH (IN)	SIGN HEIGHT (IN)	X13 / ITEM 818001 FLAT SHEET ALUMINUM, TYPE IV, RETROREFLECTIVE SHEETING (SF)	X14 / ITEM 818003 FLAT SHEET ALUMINUM, TYPE XI, RETROREFLECTIVE SHEETING (SF)	X15 / ITEM 819512 SIGN POST REFLECTIVE PANEL (EA)	ITEM 819018 INSTALLATION OR REMOVAL OF TRAFFIC SIGN(S) ON SINGLE POST (EACH)			ITEM 819019 INSTALLATION OR REMOVAL OF TRAFFIC SIGN(S) ON MULTIPLE SIGN POSTS (SF)			POST INSTALLATION TYPE	X16 / ITEM 819011 12' SIGNPOSTS W/ BASEPOSTS & HARDWARE (EACH)	X17 / ITEM 819023 15' SIGNPOSTS W/ BASEPOSTS & HARDWARE (EACH)	ITEM 819016 4" HOLE, 0.6" (EACH)	ITEM 819017 4" HOLE, >6" (EACH)	SIGN DISPOSITION	X14A FLAT SHEET ALUMINUM SIGN PANELS (TYPE XI SHEETING) - SIGNS ON POLES, SPAN WIRES, MAST ARMS (TRAFFIC SUPPLY)	ITEM 822500 INSTALL OVERHEAD SIGN (SF) ON SIGNAL POLES TRAFFIC CONTRACTOR ITEM, EXCEPT FOR PILOT PROJECTS	ITEM 823003 REMOVAL OF SIGN ON SPAN WIRE OR MAST ARM (EA) TRAFFIC CONTRACTOR ITEM, EXCEPT FOR PILOT PROJECTS	ITEM 823001 INSTALLATION OF SIGN ON SPAN WIRE OR MAST ARM (SF) TRAFFIC CONTRACTOR ITEM, EXCEPT FOR PILOT PROJECTS	REMARKS	
										SIGN DISPOSITION	REMOVE	INSTALL	SIGN DISPOSITION	REMOVE	INSTALL												
SS-32	1A	W1-7(48)	1	TWO DIRECTIONAL LARGE ARROW - 48x24	48	24																					
SS-32	1B	OM4.3	1	END OF ROAD OBJECT MARKER	18	18																					
SS-32	1C	OM4.3	1	END OF ROAD OBJECT MARKER	18	18																					
SS-32	1D	W16-8aP	1	ADVANCE STREET NAME (4 - line plaque)	30	24																				(Left Arrow) "Old"/"Coach Rd"/"Pike" (Right Arrow) "Creek Rd"	
SS-32	2A	W2-7L(30)	1	OFFSET SIDE ROADS - 30x30	30	30	6.3																				
SS-32	2B	W16-8aP	1	ADVANCE STREET NAME (2 - line plaque)	30	18	3.8																			"Upper Pike Creek Rd" (Highway Font C, 4" Normal Kerning)	
SS-32	3A	D3-1(12)	2	STREET NAME (1 Line) Posted speed ≤ 40 MPH	48	12	8.0																			"Upper Pike Creek Rd" (Highway Font B, 5/8" Normal Kerning)	
SS-32	3B	D3-1(12)	2	STREET NAME (1 Line) Posted speed ≤ 40 MPH	48	12	8.0																			"Pike Creek Rd" (Highway Font B, 6/74" Normal Kerning)	
SS-32	3C	R1-1(36)	1	STOP	36	36																					
SS-34	1	S5-2(24)	1	END SCHOOL ZONE - 24x30	24	30	5.0							SOL	1											FLUORESCENT YELLOW GREEN BACKGROUND	
SS-34	2A	S1-1(36)	1	SCHOOL SIGN (Symbol) - 36x36	36	36		9.0						SOL	1											FLUORESCENT YELLOW GREEN BACKGROUND	
SS-34	2B	S4-3P(24)	1	SCHOOL - 24x8	24	8		1.3						SOL	1											FLUORESCENT YELLOW GREEN BACKGROUND	
SS-34	3A	S1-1(36)	1	SCHOOL SIGN (Symbol) - 36x36	36	36																					FLUORESCENT YELLOW GREEN BACKGROUND
SS-34	3B	S5-1-DE(24)	1	SCHOOL SPEED LIMIT XX WHEN CHILDREN ARE PRESENT - 24x54	24	54		9.0																		"SCHOOL" text shall be black legend on fluorescent yellow green background. Speed Limit 20	
SS-34	4	S1-1(36)	1	SCHOOL SIGN (Symbol) - 36x36	36	36																				FLUORESCENT YELLOW GREEN BACKGROUND	
SS-34	5A	S1-1(36)	1	SCHOOL SIGN (Symbol) - 36x36	36	36		9.0						SOL	1											FLUORESCENT YELLOW GREEN BACKGROUND	
SS-34	5B	W16-7P_FYG(21)L	1	LEFT DOWNWARD DIAGONAL ARROW (plaque) - 21x15 (Fluorescent Yellow-Green)	21	15		2.2						SOL	1											FLUORESCENT YELLOW GREEN BACKGROUND	
SS-34	6A	S1-1(36)	1	SCHOOL SIGN (Symbol) - 36x36	36	36		9.0						SOL	1											FLUORESCENT YELLOW GREEN BACKGROUND	
SS-34	6B	W16-7P_FYG(21)L	1	LEFT DOWNWARD DIAGONAL ARROW (plaque) - 21x15 (Fluorescent Yellow-Green)	21	15		2.2						SOL	1											FLUORESCENT YELLOW GREEN BACKGROUND	
SS-35	1	S5-1-DE(24)	1	SCHOOL SPEED LIMIT XX WHEN CHILDREN ARE PRESENT - 24x54	24	54		9.0						SOL	1											"SCHOOL" text shall be black legend on fluorescent yellow green background. Speed Limit 20	
SS-35	2A	S1-1(36)	1	SCHOOL SIGN (Symbol) - 36x36	36	36		9.0						SOL	1											FLUORESCENT YELLOW GREEN BACKGROUND	
SS-35	2B	S4-3P(24)	1	SCHOOL - 24x8	24	8		1.3						SOL	1											FLUORESCENT YELLOW GREEN BACKGROUND	
SS-35	3	S5-2(24)	1	END SCHOOL ZONE - 24x30	24	30	5.0							SOL	1											FLUORESCENT YELLOW GREEN BACKGROUND	
SS-35	4	W5-1(36)	1	ROAD NARROWS - 36x36	36	36																					
SS-35	5A	W21-11-DE	1	WATCH CHILDREN (Symbol)	30	30																					
SS-35	5B	R2-1-25(24)	1	SPEED LIMIT (25 MPH - 24x30)	24	30																					
PAGE TOTALS							36	61	0						7	0	0	0			0	0	0	0			

ADDENDUMS / REVISIONS

NOT TO SCALE

PAVEMENT & REHABILITATION
NORTH I, 2024
PIKE CREEK ROAD

CONTRACT	ROAD NO.	N316
T202406101.02	DESIGNED BY:	S. MILLER/ J. CLEM
COUNTY	CHECKED BY:	M. WAHED
NEW CASTLE		

PERMANENT
SIGN SCHEDULE

SECTION	JMT
SHEET NO.	72

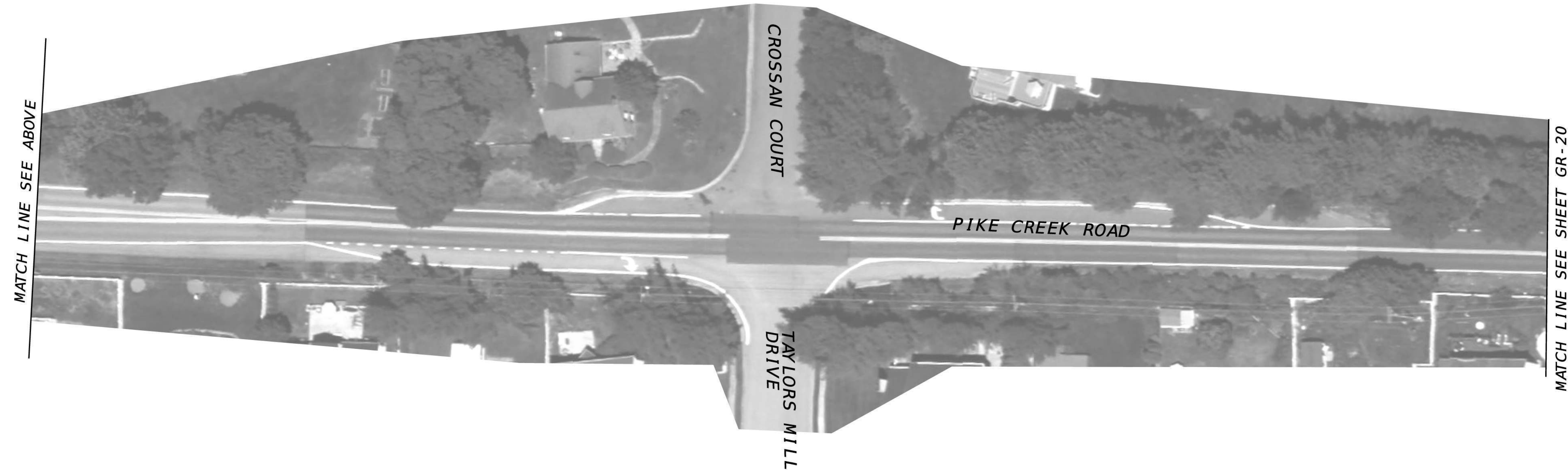
LIMITS OF CONSTRUCTION
CONTRACT NO. T202406101



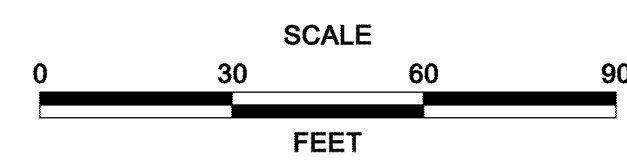
GUARDRAIL SCHEDULE				
NO.	ITEM DESCRIPTION / TYPE	BEGIN STA.	OFFSET	LENGTH
201	GUARDRAIL TO BARRIER CONNECTION, TYPE 1-31	300+08.54	-26.00	35.00
202	GALVANIZED STEEL BEAM GUARDRAIL, TYPE 1-31	300+33.54	-26.00	87.50
203	END TREATMENT, ATTENUATOR TYPE 1	301+21.04	-26.00	50.00

NOTES

- SEE STANDARD DETAIL B-1, TYPE 1-31 GUARDRAIL APPLICATION.
- SEE STANDARD DETAIL B-2, GUARDRAIL END TREATMENT ATTENUATOR TYPE 1-31.
- SEE STANDARD DETAIL B-10, GUARDRAIL TO BARRIER END CONNECTION, APPROACH, TYPE 1-31.



ADDENDUMS / REVISIONS



PAVEMENT & REHABILITATION
NORTH I, 2024
PIKE CREEK ROAD

CONTRACT	ROAD NO.	N316
T202406101.02	DESIGNED BY:	M. TAPLIN
COUNTY	CHECKED BY:	B. DOUGHERTY
NEW CASTLE		

GUARDRAIL PLANS

GR-19

SECTION

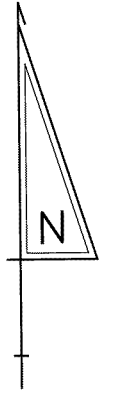
JMT

SHEET NO.

73

NOTES:

1. EXISTING GUARDRAIL HEIGHT IS LESS THAN 31". EXISTING CHANGES IN GRADE AND LIMITED RIGHT OF WAY PROHIBIT THE UPGRADE OF GUARDRAIL TO BE COMPLIANT WITH MASH STANDARD AND GUARDRAIL DETAILS. REGRADING OF THE AREA TO IMPROVE THE GUARDRAIL SYSTEM IS OUTSIDE THE SCOPE OF THE PAVEMENT & REHABILITATION PROJECT.



MATCH LINE SEE SHEET GR-19

CALAN DRIVE

PIKE CREEK ROAD

MATCH LINE SEE BELOW



MATCH LINE SEE ABOVE

SEE NOTE 1

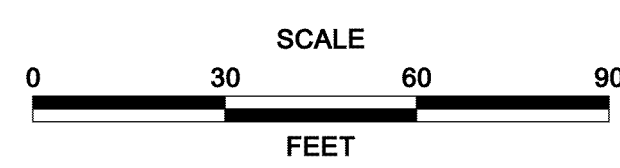
PIKE CREEK ROAD

FORSYTHIA DRIVE

MATCH LINE SEE SHEET GR-21

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ADDENDUMS / REVISIONS



**PAVEMENT & REHABILITATION
NORTH I, 2024
PIKE CREEK ROAD**

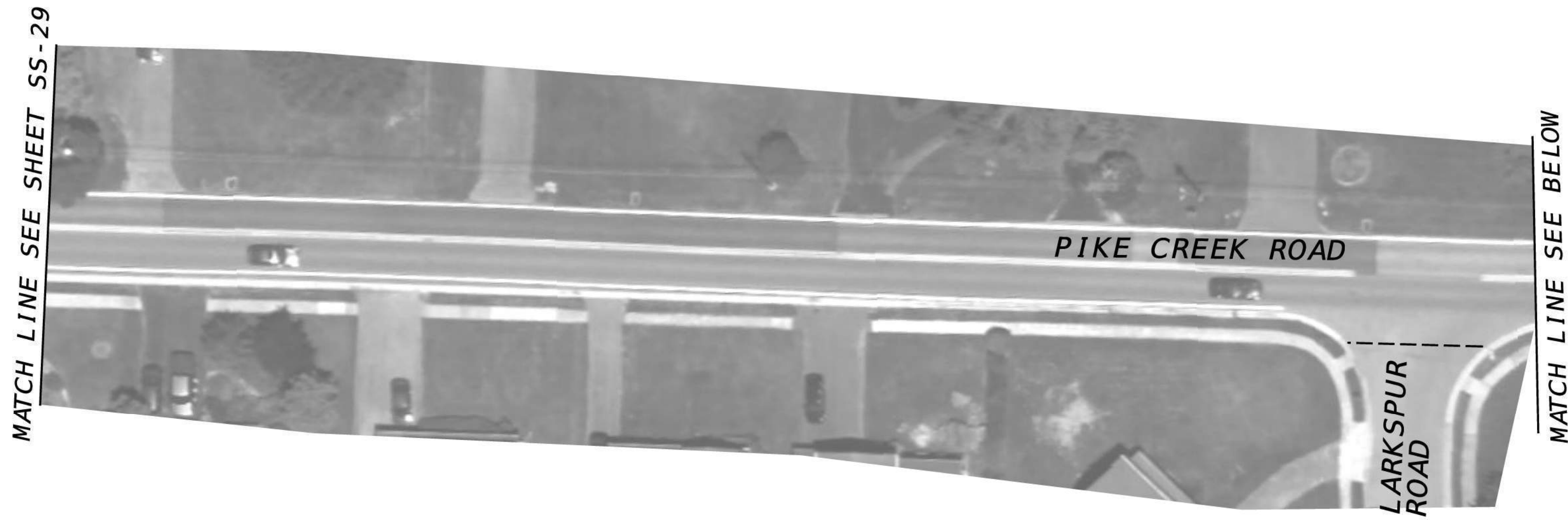
CONTRACT	ROAD NO.	N316
T202406101.02	DESIGNED BY : M. TAPLIN	
COUNTY	CHECKED BY: B. DOUGHERTY	
NEW CASTLE		

GUARDRAIL PLANS

GR-20
SECTION
JMT
SHEET NO.
74

NOTES:

1. EXISTING GUARDRAIL HEIGHT IS LESS THAN 31". ADJUSTING THE MAINTENANCE ENTRANCE TO ALL SAINTS CEMETERY TO IMPROVE THE GUARDRAIL SYSTEM IS OUTSIDE THE SCOPE OF THE PAVEMENT AND REHABILITATION PROJECT.



MATCH LINE SEE SHEET SS-29

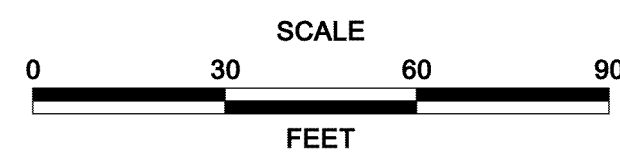
MATCH LINE SEE BELOW



MATCH LINE SEE ABOVE

MATCH LINE SEE SHEET SS-35

ADDENDUMS / REVISIONS



**PAVEMENT & REHABILITATION
NORTH I, 2024
PIKE CREEK ROAD**

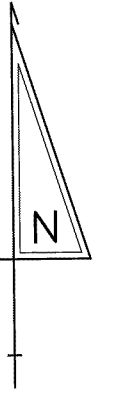
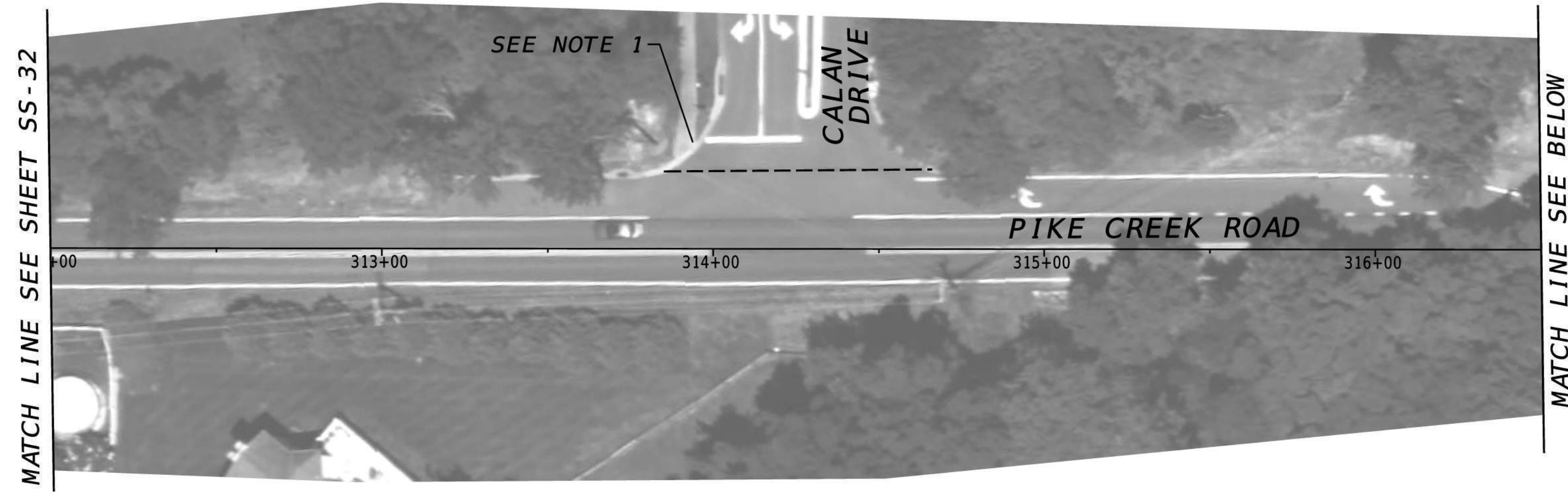
CONTRACT	ROAD NO.	N316
T202406101.02	DESIGNED BY: M. TAPLIN	
COUNTY	CHECKED BY: B. DOUGHERTY	
NEW CASTLE		

GUARDRAIL PLANS

GR-21
SECTION
JMT
SHEET NO.
75

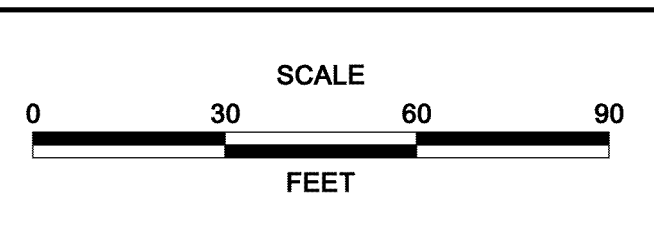
NOTES

1. PEDESTRIAN CONNECTION IS OUTSIDE OF PAVEMENTS LIMITS. REMEDIATION NOT REQUIRED.
2. REMOVE THE EXISTING SIDEWALK PANEL AND BARRIER CURB.



7-AUG-2024 22:41 pwt/jmt-pw.bentley.com:jmt-pw-01/Documents/Projects/2019/19-00797-002/JMT/General/2D Drawing/ADA Design/PR - Pike Creek Rd.dgn

ADDENDUMS / REVISIONS	



**PAVEMENT & REHABILITATION
NORTH I, 2024
PIKE CREEK ROAD**

CONTRACT	ROAD NO.	N316
T202406101.02	DESIGNED BY:	M. TAPLIN
COUNTY	CHECKED BY:	W. DOUGHERTY
NEW CASTLE		

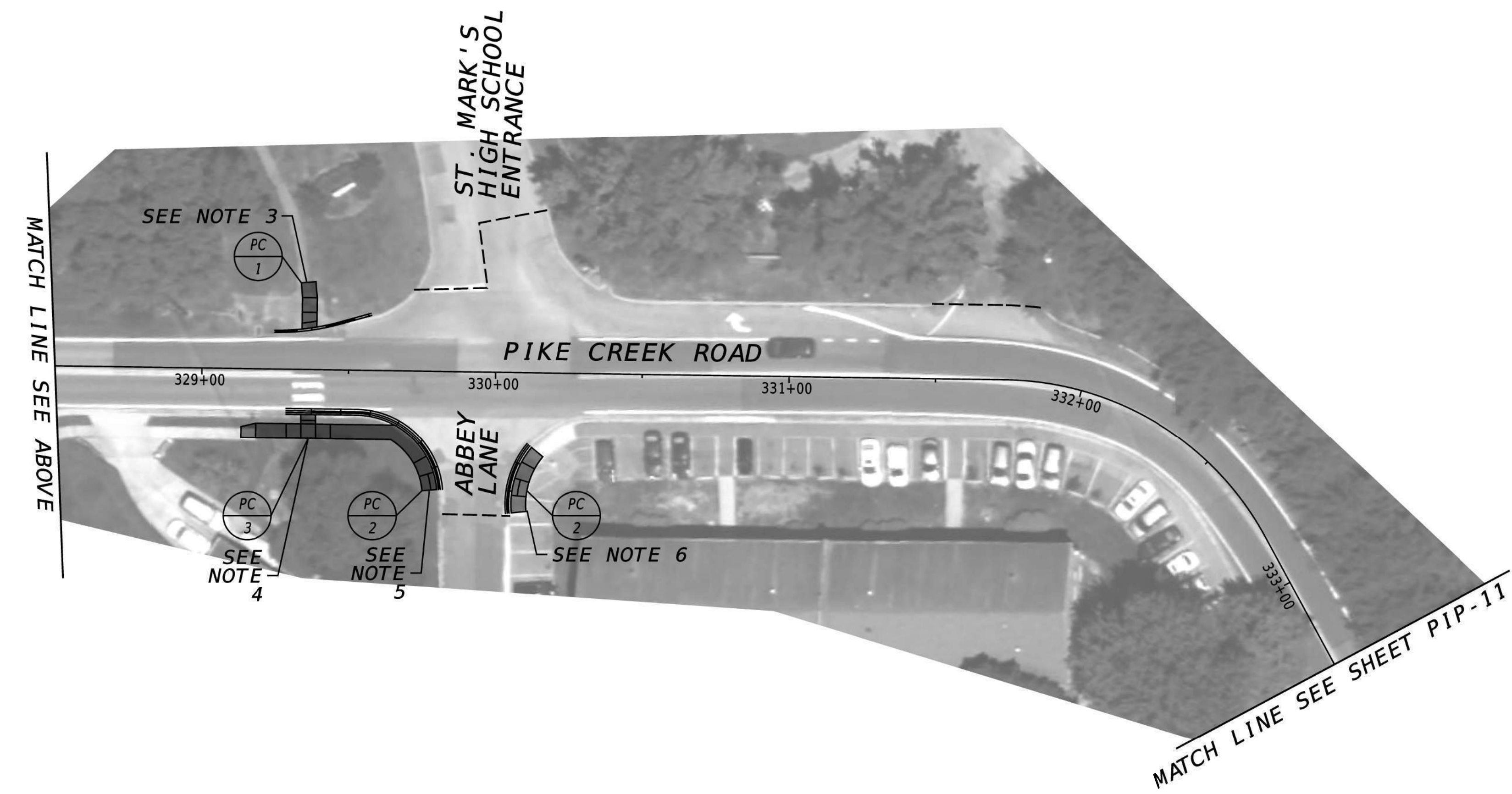
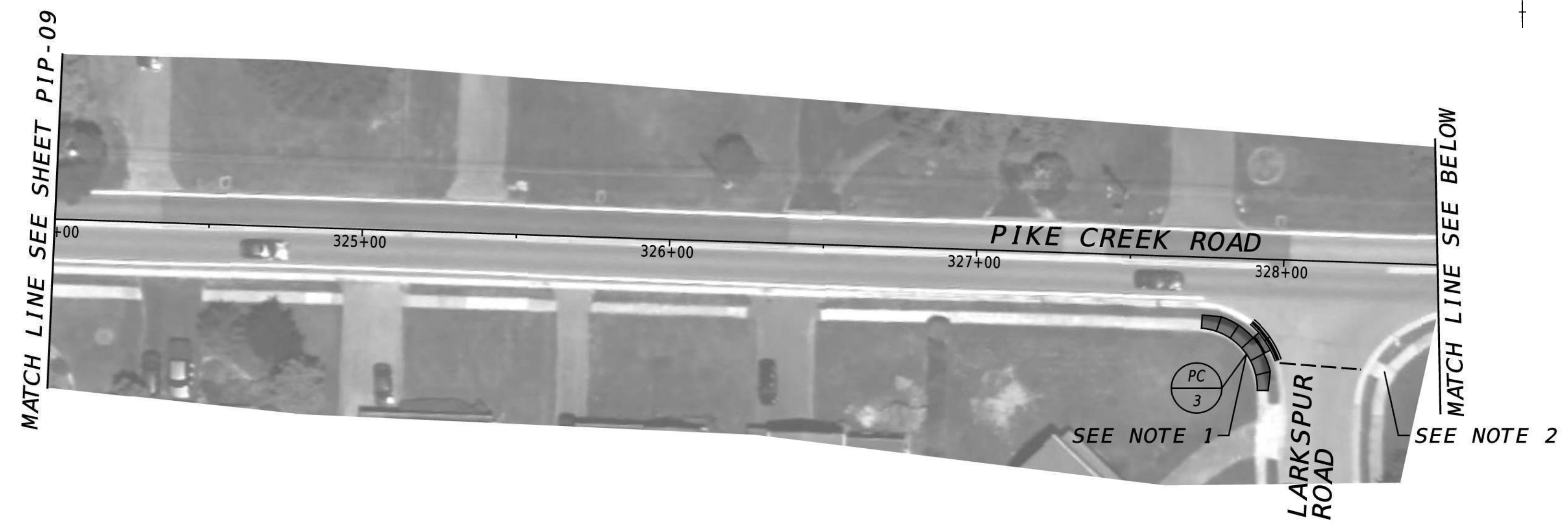
**PEDESTRIAN
IMPROVEMENT
PLAN**

PIP-09
SECTION
JMT
SHEET NO.
76



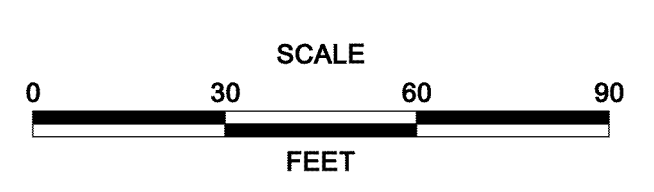
NOTES

1. THE PEDESTRIAN CONNECTION WAS FOUND TO BE NON-COMPLIANT DUE VERTICAL DIFFERENCES OF 1" AND 3/4" EXCEED THE MAXIMUM ALLOWABLE OF 1/4".
2. THE PEDESTRIAN CONNECTION WAS FOUND TO BE COMPLIANT WITH THE PEDESTRIAN ACCESS STANDARDS.
3. THE PEDESTRIAN CONNECTION WAS FOUND TO BE UNSTABLE WITH VERTICAL DIFFERENCES.
4. PEDESTRIAN CROSSWALK STRIPING PRESENT WITH NO PEDESTRIAN CONNECTION.
5. STUB END PRESENT IN SIDEWALK EAST OF LARKSPUR ROAD. PEDESTRIAN ACCESS ROUTE IS MISSING BETWEEN LARKSPUR ROAD PIKE CREEK ROAD AND ABBEY LANE.
6. THE PEDESTRIAN CONNECTION WAS FOUND TO BE NON-COMPLIANT DUE TO SLOPES (7.6%) IN THE TURNING SPACE EXCEEDING 2.0%



7-AUG-2024 22:42 p:\jmt-pw-bentley.com\jmt-pw-01\Documents\Projects\2019\19-00797-002\JMT\General\2D Drawing\ADA Design\PR - Pike Creek Rd.dgn

ADDENDUMS / REVISIONS

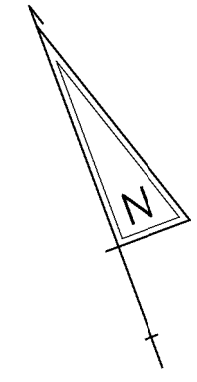


**PAVEMENT & REHABILITATION
NORTH I, 2024
PIKE CREEK ROAD**

CONTRACT	ROAD NO.	N316
T202406101.02	DESIGNED BY :	M. TAPLIN
COUNTY	CHECKED BY :	W. DOUGHERTY
NEW CASTLE		

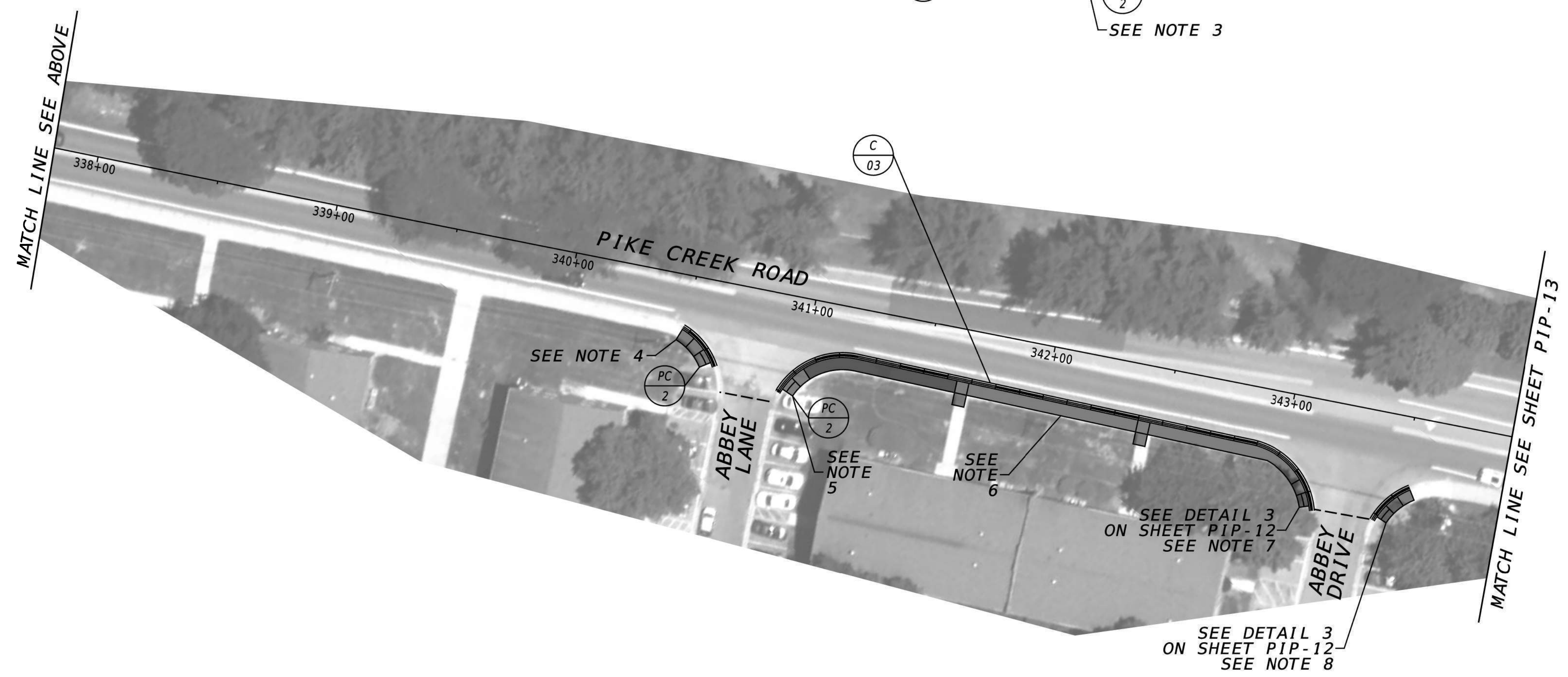
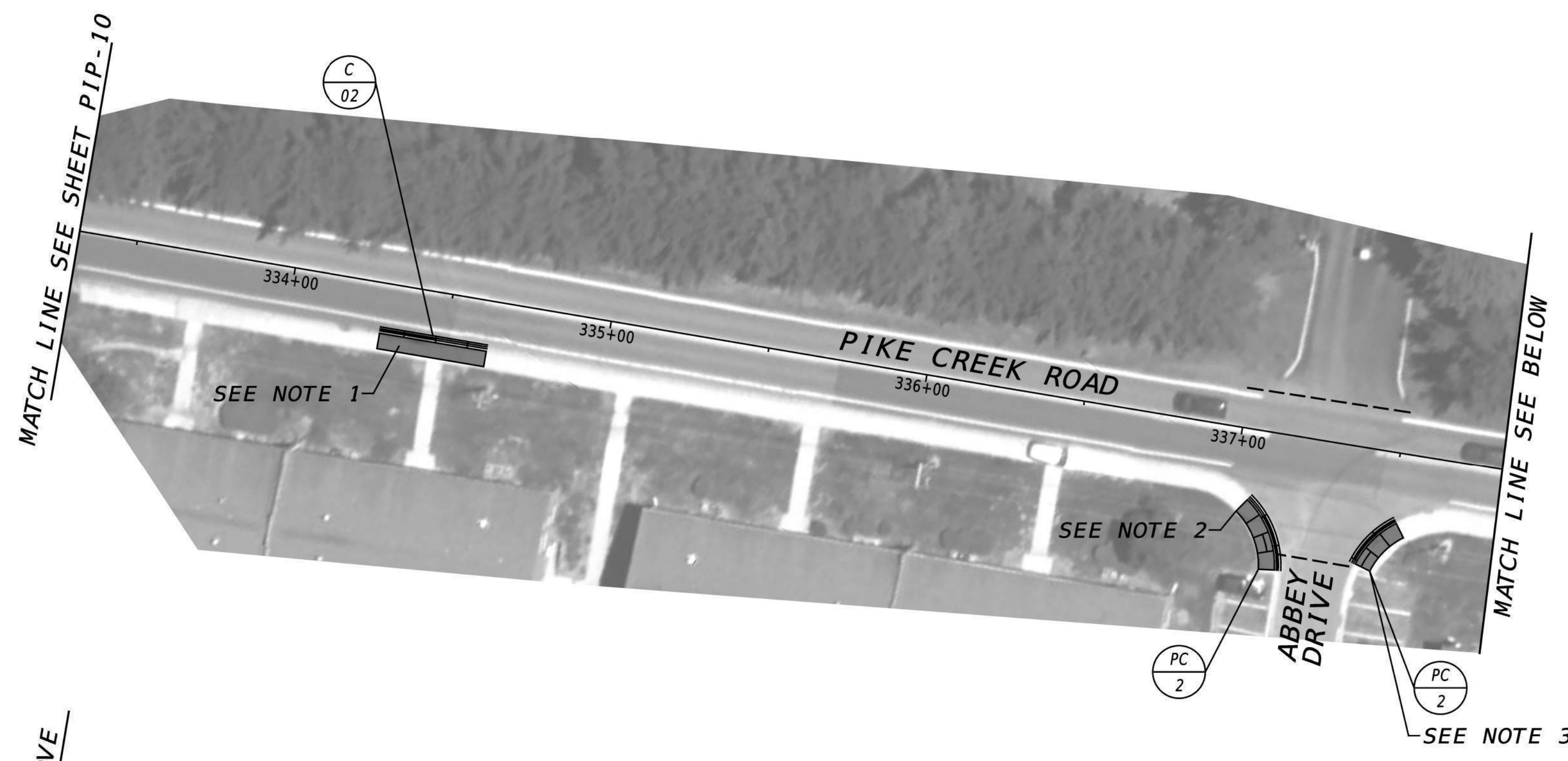
**PEDESTRIAN
IMPROVEMENT
PLAN**

PIP-10
SECTION
JMT
SHEET NO.
77



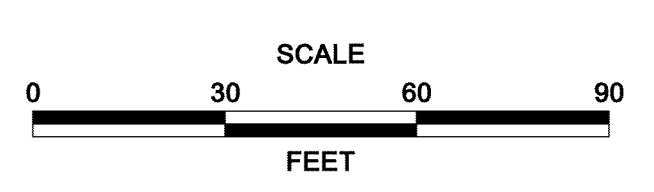
NOTES

1. THE EXISTING CURB AND SIDEWALK IS FAILING DUE TO SETTLEMENT, EROSION, AND CROSS SLOPES IN EXCESS OF 2%. REMEDIATE SIDEWALK AND CURB. REMEDIATE PER STANDARD DETAILS M-3, AND C-1.
2. THE PEDESTRIAN CONNECTION WAS FOUND TO BE NON-COMPLIANT DUE TO CROSS SLOPES WITHIN THE TURNING SPACE (8.6%) EXCEEDING 2% ALLOWABLE.
3. THE PEDESTRIAN CONNECTION WAS FOUND TO BE NON-COMPLIANT DUE TO CROSS SLOPES WITHIN THE TURNING SPACE (6.6%) EXCEEDING 2% ALLOWABLE.
4. THE PEDESTRIAN CONNECTION WAS FOUND TO BE NON-COMPLIANT DUE TO CROSS SLOPES WITHIN THE TURNING SPACE (6.1%) EXCEEDING 2% ALLOWABLE.
5. THE PEDESTRIAN CONNECTION WAS FOUND TO BE NON-COMPLIANT DUE TO CROSS SLOPES WITHIN THE TURNING SPACE (8.9%) EXCEEDING 2% ALLOWABLE.
6. THE EXISTING CURB AND SIDEWALK IS FAILING DUE TO SETTLEMENT, EROSION, AND CROSS SLOPES IN EXCESS OF 2%. REMEDIATE SIDEWALK AND CURB. REMEDIATE PER STANDARD DETAILS M-3, AND C-1.
7. THE PEDESTRIAN CONNECTION WAS FOUND TO BE NON-COMPLIANT DUE TO CROSS SLOPES WITHIN THE TURNING SPACE (9.3%) EXCEEDING 2% ALLOWABLE, AND DOES NOT MEET THE 48" MINIMUM TURNING SPACE WIDTH.
8. THE PEDESTRIAN CONNECTION WAS FOUND TO BE NON-COMPLIANT DUE TO CROSS SLOPES WITHIN THE TURNING SPACE (8.7%) EXCEEDING 2% ALLOWABLE.



CURB SCHEDULE		
NO.	ITEM DESCRIPTION / TYPE	LENGTH
02	INTEGRAL PCC CURB AND GUTTER, TYPE 2	34'
03	INTEGRAL PCC CURB AND GUTTER, TYPE 2	183'

ADDENDUMS / REVISIONS



**PAVEMENT & REHABILITATION
NORTH I, 2024
PIKE CREEK ROAD**

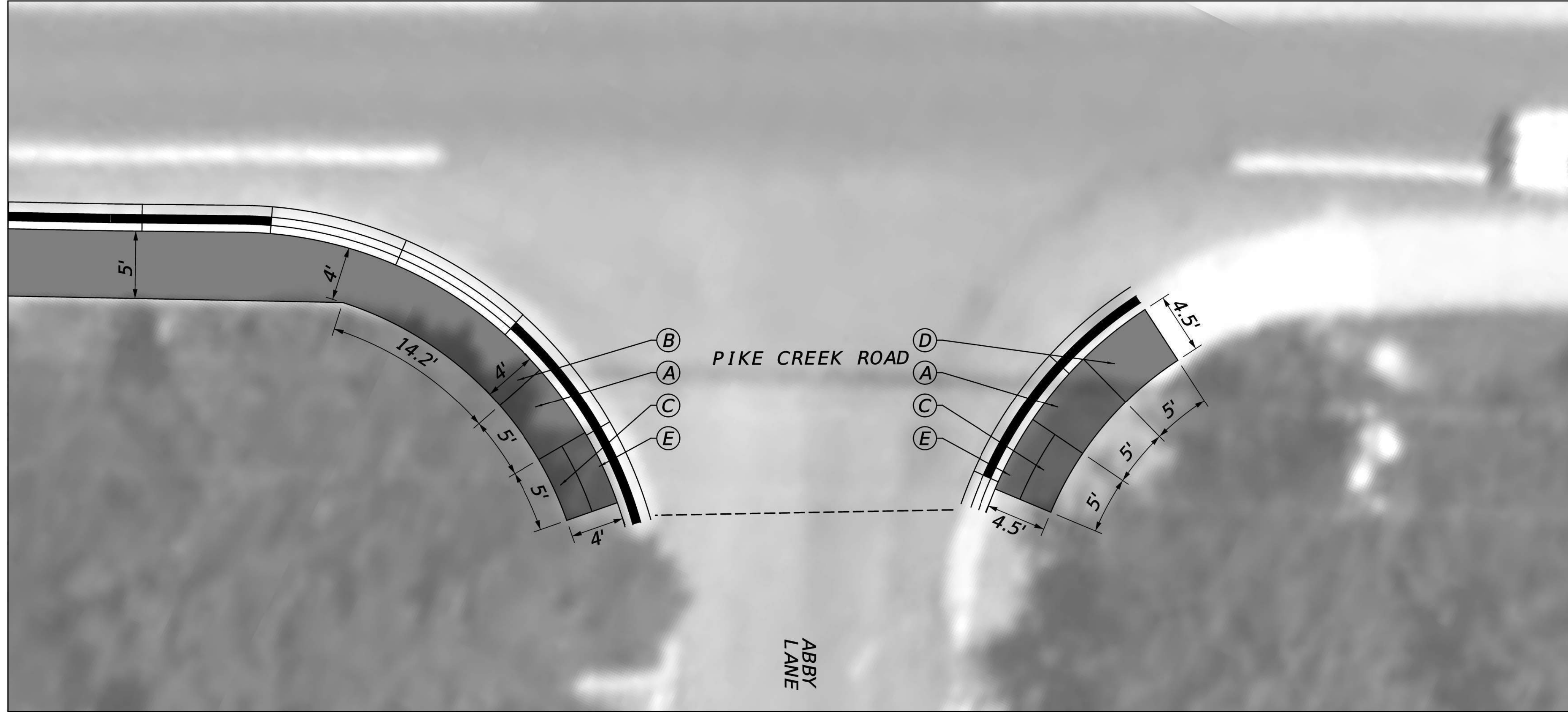
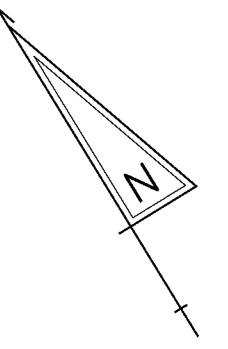
CONTRACT	ROAD NO.	N316
T202406101.02	DESIGNED BY:	M. TAPLIN
COUNTY	CHECKED BY:	W. DOUGHERTY
NEW CASTLE		

**PEDESTRIAN
IMPROVEMENT
PLAN**

PIP-11
SECTION
JMT
SHEET NO.
78

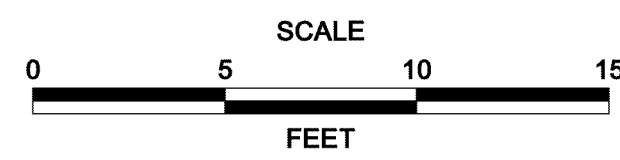
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SYMBOL	ITEM
(A)	RAMP SEGMENT - RUNNING SLOPES MAY NOT EXCEED 8.3%
(B)	BLENDED TRANSITION/ SIDEWALK - RUNNING SLOPES MAY NOT EXCEED 5%
(C)	TURNING SPACE - CROSS SLOPES AND RUNNING SLOPES MUST NOT EXCEED 2%
(D)	TRANSITION SLAB
(E)	DETECTABLE WARNING SURFACE



PEDESTRIAN CONNECTION DETAIL 3 - PIKE CREEK ROAD & ABBEY LANE
SCALE 1" = 5'

ADDENDUMS / REVISIONS



PAVEMENT & REHABILITATION
NORTH I, 2024
PIKE CREEK ROAD

CONTRACT	ROAD NO.	N316
T202406101.02	DESIGNED BY:	M. TAPLIN
COUNTY	CHECKED BY:	B. DOUGHERTY
NEW CASTLE		

PEDESTRIAN
IMPROVEMENT
PLAN

PIP-12

SECTION

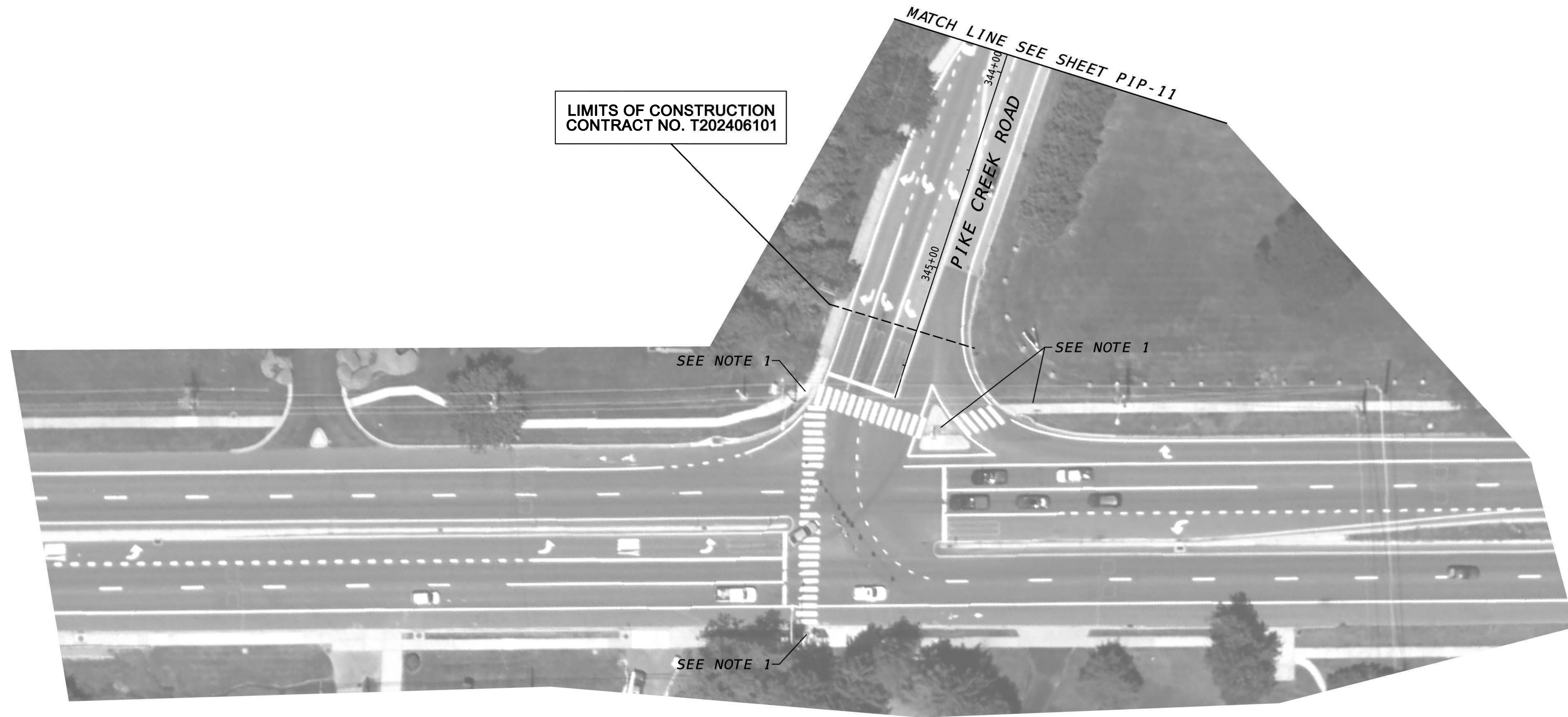
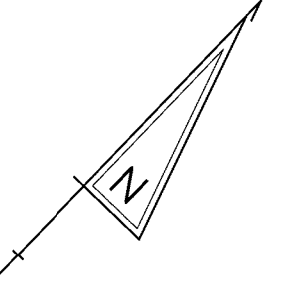
JMT

SHEET NO.

79

NOTES

1. PEDESTRIAN CONNECTION IS OUTSIDE OF PAVEMENTS LIMITS. REMEDIATION NOT REQUIRED.



LIMITS OF CONSTRUCTION
CONTRACT NO. T202406101

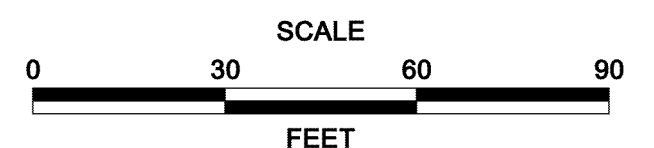
SEE NOTE 1

SEE NOTE 1

SEE NOTE 1

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ADDENDUMS / REVISIONS

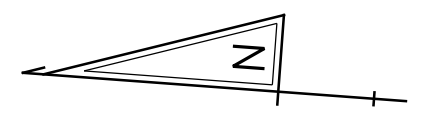


**PAVEMENT & REHABILITATION
NORTH I, 2024
PIKE CREEK ROAD**

CONTRACT	ROAD NO.	N316
T202406101.02	DESIGNED BY : M. TAPLIN	
COUNTY	CHECKED BY: W. DOUGHERTY	
NEW CASTLE		

**PEDESTRIAN
IMPROVEMENT
PLAN**

PIP-13
SECTION
JMT
SHEET NO.
80



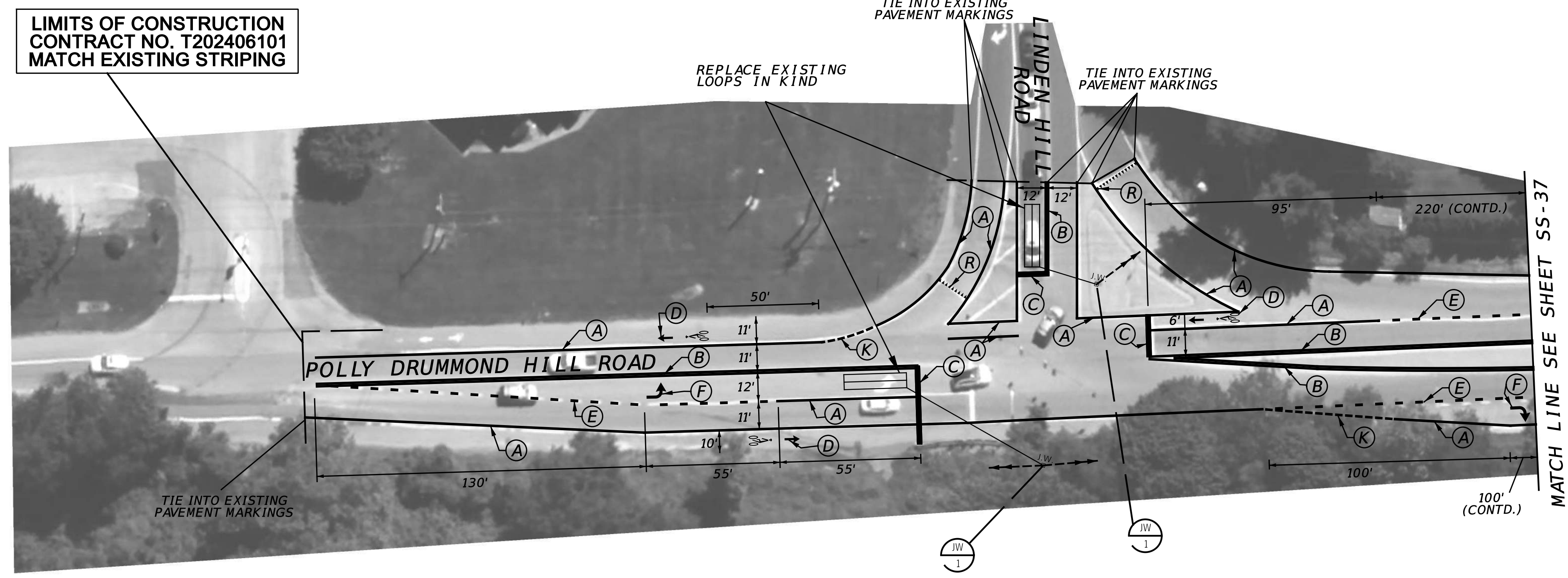
PAVEMENT MARKINGS LEGEND		
SYMBOL		QUANTITY
(A)	EPOXY RESIN PAVEMENT STRIPING, WHITE 6" SOLID (ITEM 817042)	1,600 LF
(B)	EPOXY RESIN PAVEMENT STRIPING, YELLOW 6" SOLID DOUBLE (ITEM 817042)	1,325 LF
(C)	ALKYD-THERMOPLASTIC PAVEMENT STRIPING, WHITE 16" SOLID (ITEM 817002)	91 SF
(D)	PREFORMED RETROREFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS, WHITE BIKE SYMBOL (ITEM 817015)	3 EA
(E)	EPOXY RESIN PAVEMENT STRIPING, WHITE 6" DOTTED - 2' LINE & 6' GAP (ITEM 817042)	45 LF
(F)	ALKYD-THERMOPLASTIC PAVEMENT STRIPING, WHITE SYMBOL/LEGEND (ITEM 817002)	34 SF
(K)	EPOXY RESIN PAVEMENT STRIPING, WHITE 6" DOTTED - 2' LINE & 2' GAP (ITEM 817042)	40 LF
(R)	WHITE ALKYD THERMOPLASTIC PAVEMENT STRIPING, YIELD TEETH (ITEM 817002)	18 SF

SIGNAL LOOP QUANTITIES	
	QUANTITY
PROVIDE & INSTALL LOOP WIRE 1-CONDUCTOR #14 AWG ENCASED IN 1/4" FLEXIBLE TUBING IN A LOOP SAWCUT (ITEM 846001)	250 LF
PROVIDE & INSTALL A 1/2 INCH GALVANIZED RIGID METAL CONDUIT DETECTOR SLEEVE WITH LOOP WIRE (ITEM 846002)	20 LF

SIGNAL LEGEND	
PROPOSED LOOP DETECTOR, TYPE 1	
PROPOSED LOOP DETECTOR, TYPE 2	

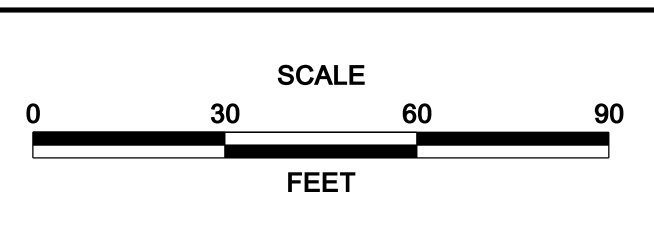
NOTES:

- SEE PROJECT NOTES SHEET 3 NOTE 9 FOR ADDITIONAL INFORMATION CONCERNING SIGNAL LOOPS.
- TRAFFIC CONTRACTOR TO INSTALL TEMPORARY DETECTION PER TEMPORARY SIGNAL PLAN PRIOR TO DISCONNECTING LOOPS. TEMPORARY WAVETRONIX DETECTION TO REMAIN DEACTIVATED IN ULTIMATE CONDITION AFTER ULTIMATE LOOP DETECTORS ARE OPERATIONAL.
- CONTACT DELDOT TMC 10 DAYS PRIOR TO DISCONNECTING AND RECONNECTING TRAFFIC SIGNAL DETECTION LOOPS AT 302-659-4600.
- SPlice TRAFFIC SIGNAL DETECTION LOOP WIRES IN THE EXISTING JUNCTION WELLS. DO NOT DISTURB HOME RUN CABLES.
- TRAFFIC SIGNAL CONDUITS AND JUNCTION WELLS ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY. FIELD VERIFY ACTUAL JUNCTION WELL LOCATIONS FOR SPlicing TRAFFIC SIGNAL DETECTION LOOPS.



STATES
TIMES
FILES

ADDENDUMS / REVISIONS

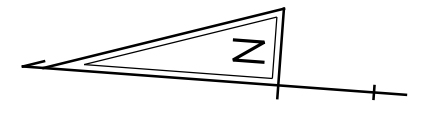
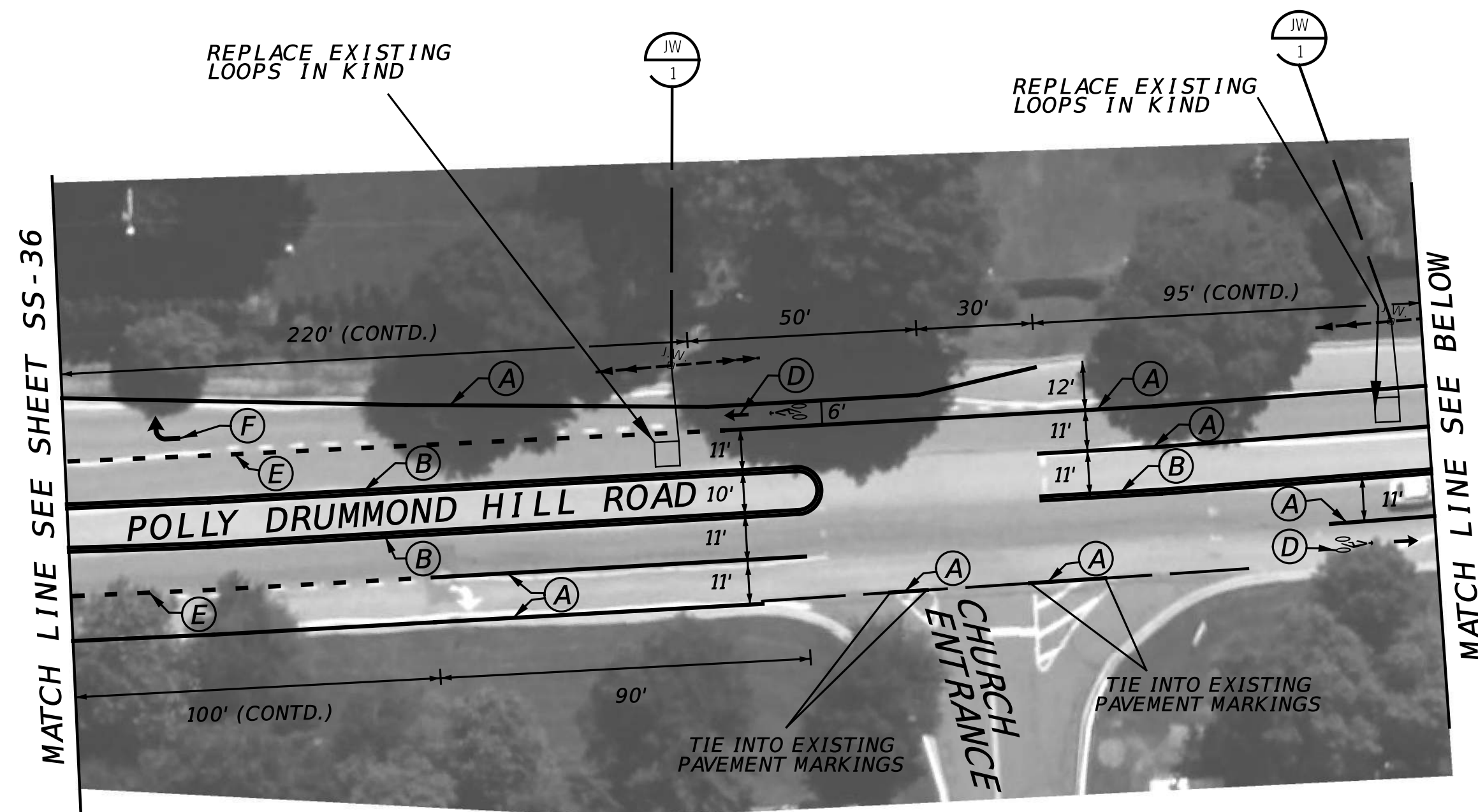


**PAVEMENT & REHABILITATION,
NORTH I, 2024
POLLY DRUMMOND HILL ROAD**

CONTRACT	ROAD NO.	N328
T202406101.02	DESIGNED BY:	J. CLEM
COUNTY	CHECKED BY:	R. KUSY
NEW CASTLE		

SIGNING AND STRIPING PLAN

SS-36
SECTION
JMT
SHEET NO.
81

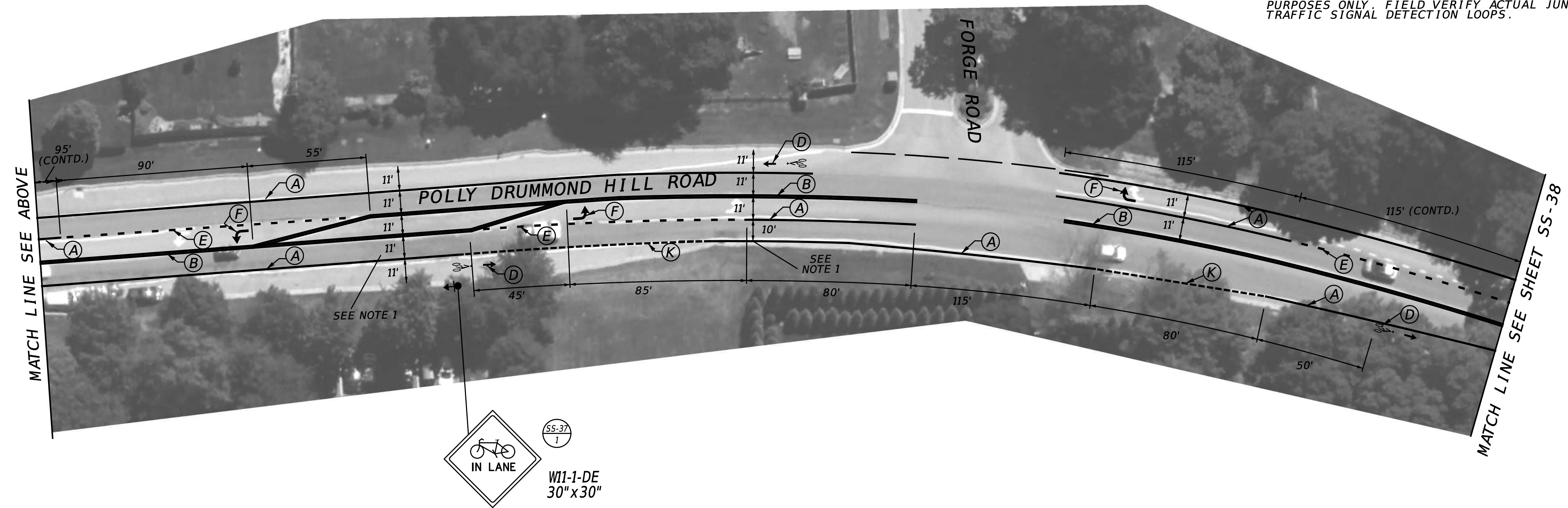


PAVEMENT MARKINGS LEGEND		
SYMBOL	DESCRIPTION	QUANTITY
(A)	EPOXY RESIN PAVEMENT STRIPING, WHITE 6" SOLID (ITEM 817042)	2,390 LF
(B)	EPOXY RESIN PAVEMENT STRIPING, YELLOW 6" SOLID DOUBLE (ITEM 817042)	2,735 LF
(D)	PREFORMED RETROREFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS, WHITE BIKE SYMBOL (ITEM 817015)	5 EA
(E)	EPOXY RESIN PAVEMENT STRIPING, WHITE 6" DOTTED - 2' LINE & 6' GAP (ITEM 817042)	185 LF
(F)	ALKYD-THERMOPLASTIC PAVEMENT STRIPING, WHITE SYMBOL/LEGEND (ITEM 817002)	69 SF
(K)	EPOXY RESIN PAVEMENT STRIPING, WHITE 6" DOTTED - 2' LINE & 2' GAP (ITEM 817042)	70 LF

SIGNAL LOOP QUANTITIES	
DESCRIPTION	QUANTITY
PROVIDE & INSTALL LOOP WIRE 1-CONDUCTOR #14 AWG ENCASED IN 1/4" FLEXIBLE TUBING IN A LOOP SAWCUT (ITEM 846001)	80 LF
PROVIDE & INSTALL A 1/2 INCH GALVANIZED RIGID METAL CONDUIT DETECTOR SLEEVE WITH LOOP WIRE (ITEM 846002)	15 LF

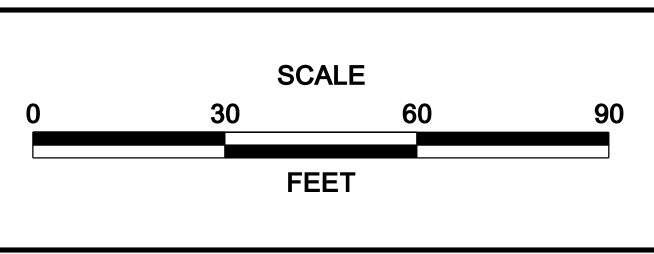
SIGNAL LEGEND	
PROPOSED LOOP DETECTOR, TYPE 1	
PROPOSED LOOP DETECTOR, TYPE 2	

- NOTES:
- LANES NARROW ON POLLY DRUMMOND HILL SOUTHBOUND APPROACH TOWARDS FORGE ROAD
 - SEE PROJECT NOTES SHEET 3 NOTE 9 FOR ADDITIONAL INFORMATION CONCERNING SIGNAL LOOPS.
 - TRAFFIC CONTRACTOR TO INSTALL TEMPORARY DETECTION PER TEMPORARY SIGNAL PLAN PRIOR TO DISCONNECTING LOOPS.
 - CONTACT DELDOT TMC 10 DAYS PRIOR TO DISCONNECTING AND RECONNECTING TRAFFIC SIGNAL DETECTION LOOPS AT 302-659-4600.
 - SPLICE TRAFFIC SIGNAL DETECTION LOOP WIRES IN THE EXISTING JUNCTION WELLS. DO NOT DISTURB HOME RUN CABLES.
 - TRAFFIC SIGNAL CONDUITS AND JUNCTION WELLS ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY. FIELD VERIFY ACTUAL JUNCTION WELL LOCATIONS FOR SPLICING TRAFFIC SIGNAL DETECTION LOOPS.



STATES
TIMES
FILES

ADDENDUMS / REVISIONS

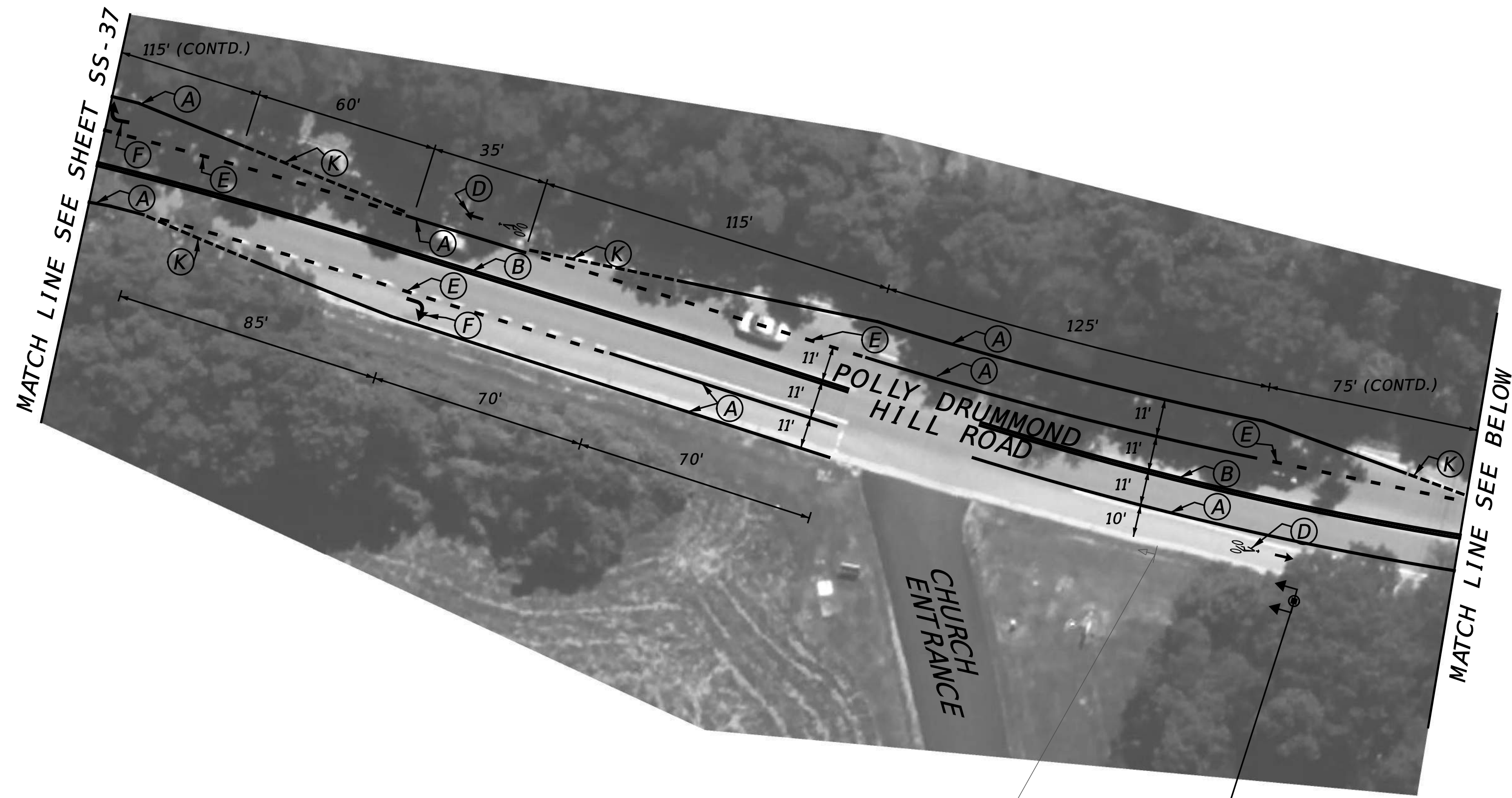


PAVEMENT & REHABILITATION,
NORTH I, 2024
POLLY DRUMMOND HILL ROAD

CONTRACT	ROAD NO.	N328
T202406101.02	DESIGNED BY:	J. CLEM
COUNTY	CHECKED BY:	R. KUSY
NEW CASTLE		

SIGNING AND STRIPING PLAN

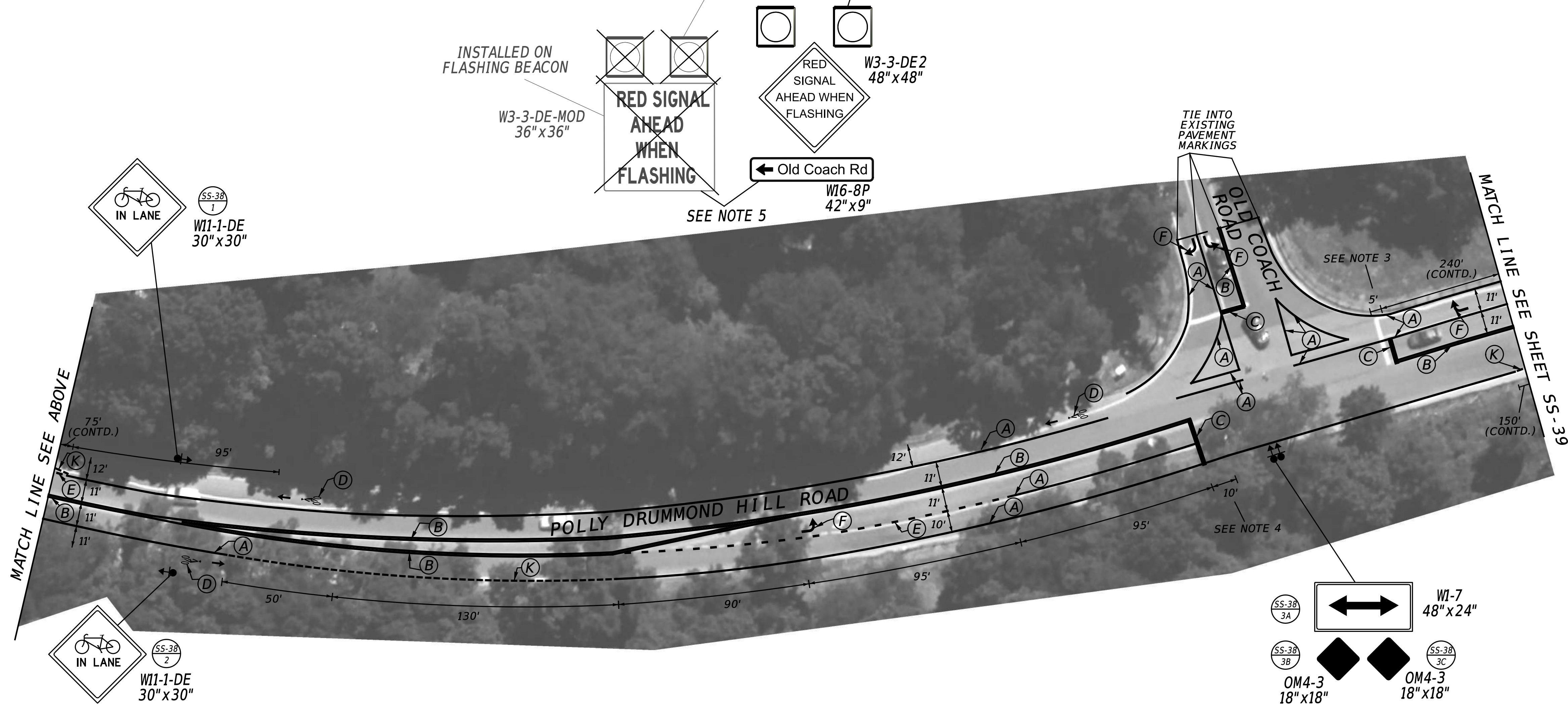
SS-37
SECTION
JMT
SHEET NO.
82



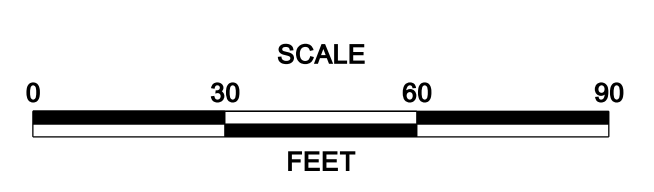
PAVEMENT MARKINGS LEGEND		
SYMBOL	DESCRIPTION	QUANTITY
(A)	EPOXY RESIN PAVEMENT STRIPING, WHITE 6" SOLID (ITEM 817042)	2,960 LF
(B)	EPOXY RESIN PAVEMENT STRIPING, YELLOW 6" SOLID DOUBLE (ITEM 817042)	2,815 LF
(C)	ALKYD-THERMOPLASTIC PAVEMENT STRIPING, WHITE 16" SOLID (ITEM 817002)	72 SF
(D)	PREFORMED RETROREFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS, WHITE BIKE SYMBOL (ITEM 817015)	5 EA
(E)	EPOXY RESIN PAVEMENT STRIPING, WHITE 6" DOTTED - 2' LINE & 6' GAP (ITEM 817042)	170 LF
(F)	ALKYD-THERMOPLASTIC PAVEMENT STRIPING, WHITE SYMBOL/LEGEND (ITEM 817002)	103 SF
(K)	EPOXY RESIN PAVEMENT STRIPING, WHITE 6" DOTTED - 2' LINE & 2' GAP (ITEM 817042)	100 LF

NOTES:

- SEE PROJECT NOTES SHEET 3 NOTE 9 FOR ADDITIONAL INFORMATION CONCERNING SIGNAL LOOPS.
- SEE SIGNAL PLANS FOR LOOPS TO BE REPLACED AT POLLY DRUMMOND HILL ROAD & OLD COACH ROAD.
- MOVE PROPOSED STOP BAR FOR NORTHBOUND POLLY DRUMMOND ROAD APPROXIMATELY 5' BACK FROM EXISTING LOCATION
- MOVE PROPOSED STOP BAR FOR SOUTHBOUND POLLY DRUMMOND ROAD APPROXIMATELY 10' BACK FROM EXISTING LOCATION
- REMOVAL AND INSTALLATION OF FLASHING BEACONS AND SIGN ASSEMBLY TO BE COMPLETED BY TRAFFIC CONTRACTOR, AND QUANTIFIED UNDER SIGNAL PLANS. SEE SIGNAL PLANS FOR MORE INFORMATION.



ADDENDUMS / REVISIONS

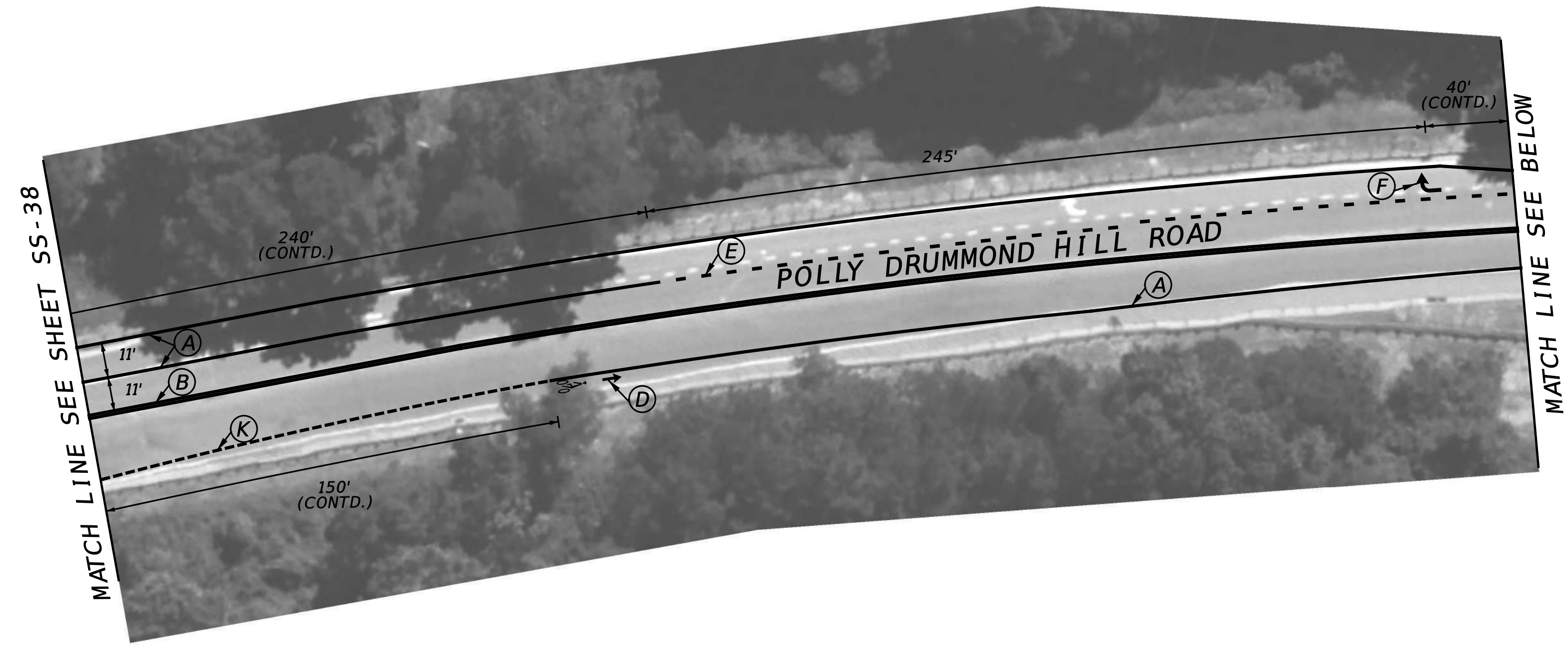
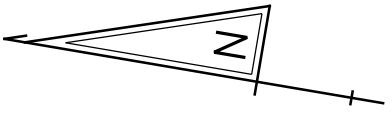


**PAVEMENT & REHABILITATION,
NORTH I, 2024
POLLY DRUMMOND HILL ROAD**

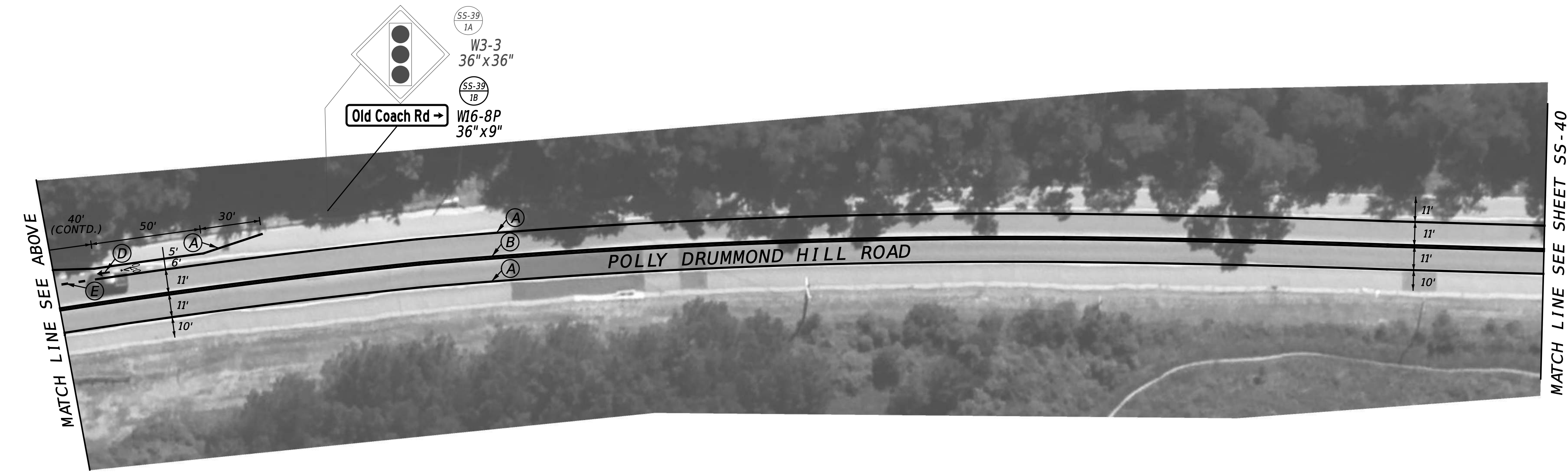
CONTRACT	ROAD NO.	N328
T202406101.02	DESIGNED BY:	J. CLEM
COUNTY	CHECKED BY:	R. KUSY
NEW CASTLE		

SIGNING AND STRIPING PLAN

SS-38
SECTION
JMT
SHEET NO.
83

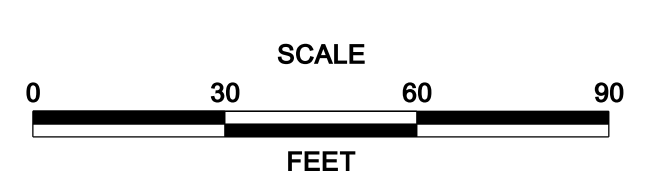


PAVEMENT MARKINGS LEGEND		
SYMBOL	DESCRIPTION	QUANTITY
(A)	EPOXY RESIN PAVEMENT STRIPING, WHITE 6" SOLID (ITEM 817042)	2,635 LF
(B)	EPOXY RESIN PAVEMENT STRIPING, YELLOW 6" SOLID DOUBLE (ITEM 817042)	2,485 LF
(D)	PREFORMED RETROREFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS, WHITE BIKE SYMBOL (ITEM 817015)	2 EA
(E)	EPOXY RESIN PAVEMENT STRIPING, WHITE 6" DOTTED - 2' LINE & 6' GAP (ITEM 817042)	80 LF
(F)	ALKYD-THERMOPLASTIC PAVEMENT STRIPING, WHITE SYMBOL/LEGEND (ITEM 817002)	18 SF
(K)	EPOXY RESIN PAVEMENT STRIPING, WHITE 6" DOTTED - 2' LINE & 2' GAP (ITEM 817042)	80 LF



STATES
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ADDENDUMS / REVISIONS

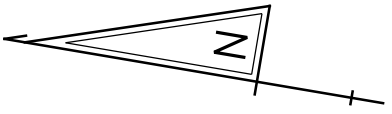


**PAVEMENT & REHABILITATION,
NORTH I, 2024
POLLY DRUMMOND HILL ROAD**

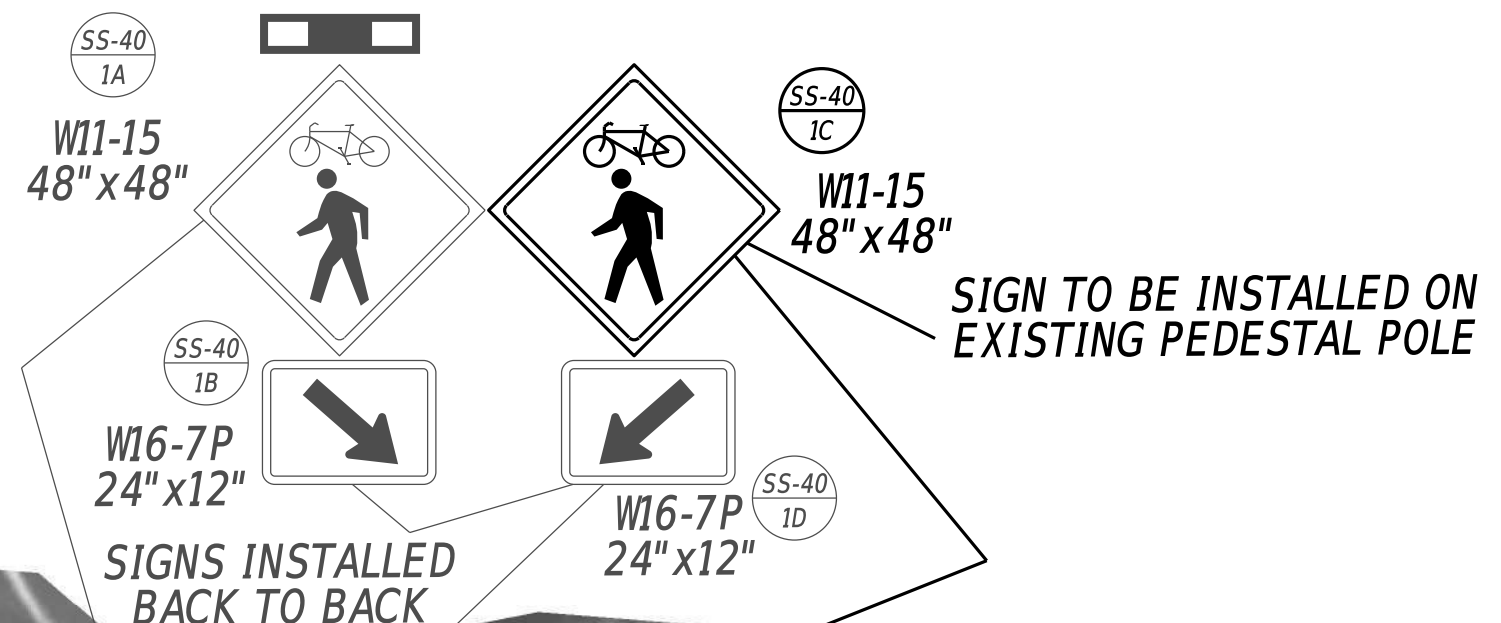
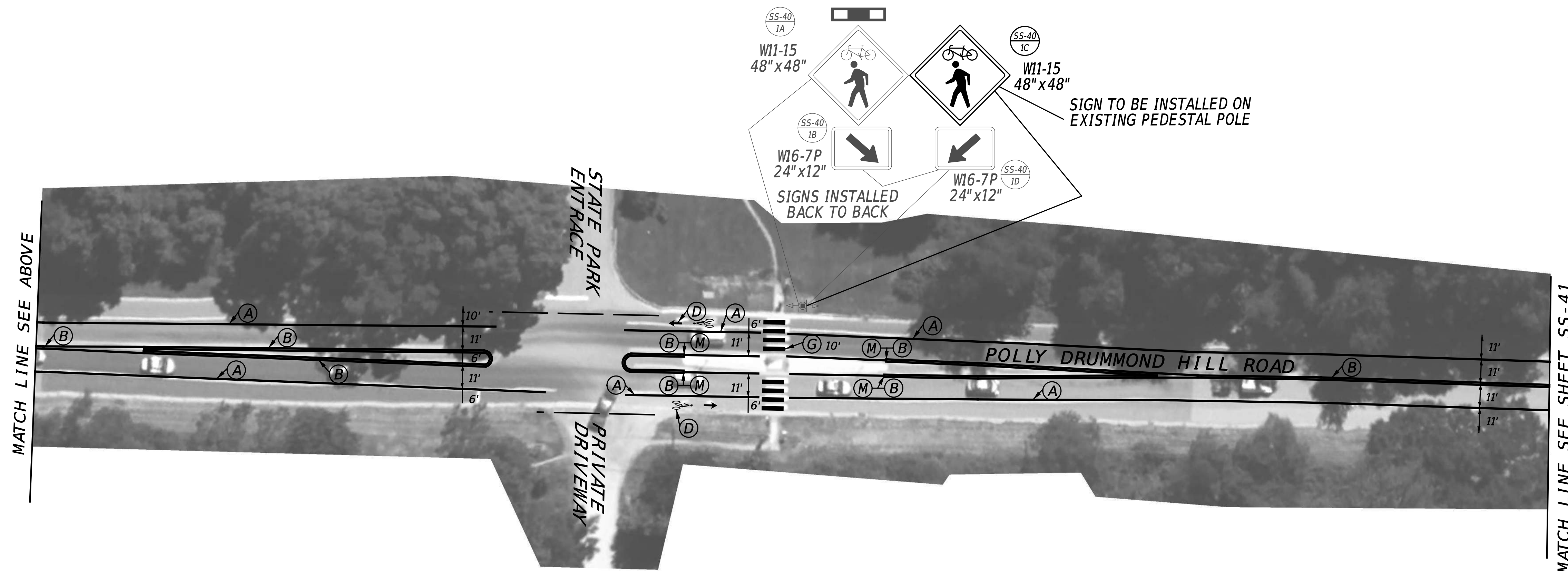
CONTRACT	ROAD NO.	N328
T202406101.02	DESIGNED BY:	J. CLEM
COUNTY	CHECKED BY:	R. KUSY
NEW CASTLE		

SIGNING AND STRIPING PLAN

SS-39
SECTION
JMT
SHEET NO.
84

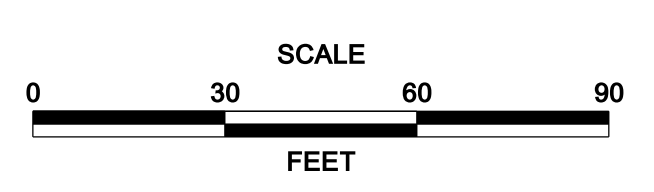


PAVEMENT MARKINGS LEGEND		
SYMBOL	DESCRIPTION	QUANTITY
(A)	EPOXY RESIN PAVEMENT STRIPING, WHITE 6" SOLID (ITEM 817042)	2,360 LF
(B)	EPOXY RESIN PAVEMENT STRIPING, YELLOW 6" SOLID DOUBLE (ITEM 817042)	2,890 LF
(D)	PREFORMED RETROREFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS, WHITE BIKE SYMBOL (ITEM 817015)	2 EA
(G)	ALKYD-THERMOPLASTIC PAVEMENT STRIPING, WHITE 24" SOLID (ITEM 817002)	176 SF
(M)	EPOXY RESIN PAVEMENT STRIPING, YELLOW 6" SOLID (ITEM 817042)	175 LF



STATES
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ADDENDUMS / REVISIONS

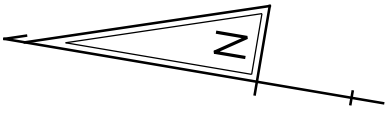


**PAVEMENT & REHABILITATION,
NORTH I, 2024
POLLY DRUMMOND HILL ROAD**

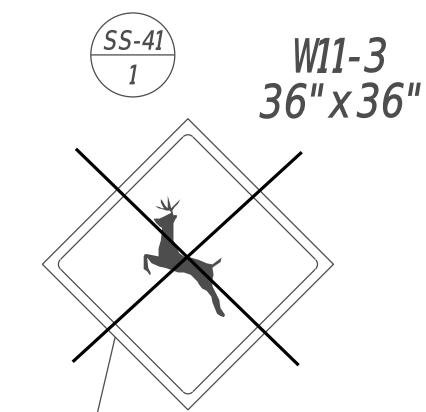
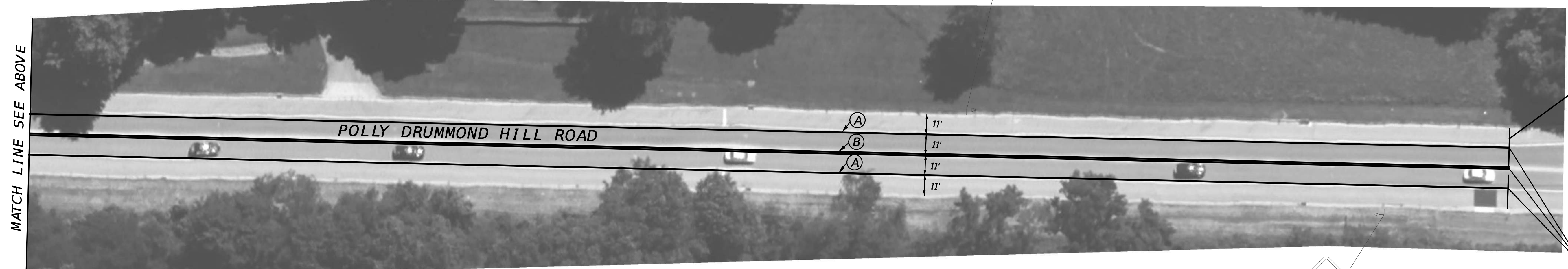
CONTRACT	ROAD NO.	N328
T202406101.02	DESIGNED BY:	J. CLEM
COUNTY	CHECKED BY:	R. KUSY
NEW CASTLE		

SIGNING AND STRIPING PLAN

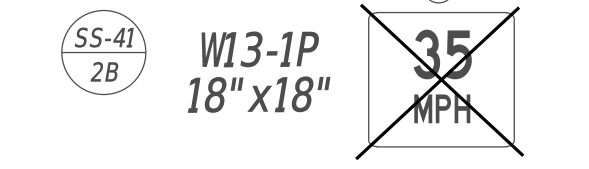
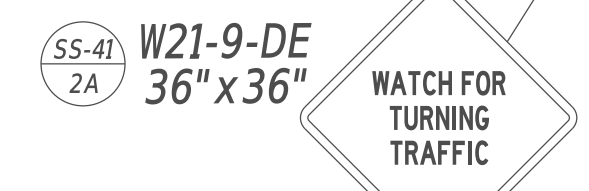
SS-40
SECTION
JMT
SHEET NO.
85



PAVEMENT MARKINGS LEGEND		
SYMBOL	DESCRIPTION	QUANTITY
(A)	EPOXY RESIN PAVEMENT STRIPING, WHITE 6" SOLID (ITEM 817042)	2,750 LF
(B)	EPOXY RESIN PAVEMENT STRIPING, YELLOW 6" SOLID DOUBLE (ITEM 817042)	2,750 LF



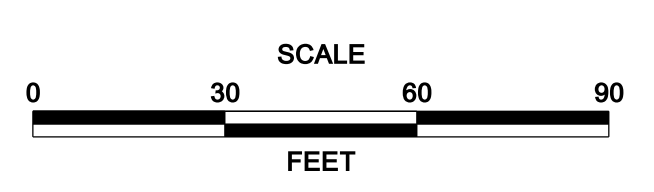
**LIMITS OF CONSTRUCTION
CONTRACT NO. T202406101
MATCH EXISTING STRIPING**



TIE INTO EXISTING PAVEMENT MARKINGS

STATES
TIMES
FILES

ADDENDUMS / REVISIONS	



**PAVEMENT & REHABILITATION,
NORTH I, 2024
POLLY DRUMMOND HILL ROAD**

CONTRACT	ROAD NO.	N328
T202406101.02	DESIGNED BY:	J. CLEM
COUNTY	CHECKED BY:	R. KUSY
NEW CASTLE		

SIGNING AND STRIPING PLAN

SS-41
SECTION
JMT
SHEET NO.
86

PERMANENT SIGN SCHEDULE - POLLY DRUMMOND HILL ROAD

SHEET NO.	PLAN IDENTIFIER	SIGN DESIGNATION	QTY.	DESCRIPTION	SIGN WIDTH (IN)	SIGN HEIGHT (IN)	X13 / ITEM 818001 FLAT SHEET ALUMINUM TYPE IV RETROREFLECTIVE SHEETING (SF)	X14 / ITEM 818003 FLAT SHEET ALUMINUM TYPE XI RETROREFLECTIVE SHEETING (SF)	X15 / ITEM 819512 SIGN POST REFLECTIVE PANEL (EA)	ITEM 819018 INSTALLATION OR REMOVAL OF TRAFFIC SIGN(S) ON SINGLE POST (EACH)			ITEM 819019 INSTALLATION OR REMOVAL OF TRAFFIC SIGN(S) ON MULTIPLE SIGN POSTS (SF)			POST INSTALLATION TYPE	X16 / ITEM 819011 12' SIGNPOSTS W/ BASEPOSTS & HARDWARE (EACH)	X17 / ITEM 819023 15' SIGNPOSTS W/ BASEPOSTS & HARDWARE (EACH)	ITEM 819016 4" HOLE 0-6" (EACH)	ITEM 819017 4" HOLE >6" (EACH)	SIGN DISPOSITION	X14A FLAT SHEET ALUMINUM SIGN PANELS (TYPE XI SHEETING) - SIGNS ON POLES, SPAN WIRES, MAST ARMS (TRAFFIC SUPPLY)	ITEM 822500 INSTALL OVERHEAD SIGN (SF) ON SIGNAL POLES TRAFFIC CONTRACTOR ITEM EXCEPT FOR PILOT PROJECTS	ITEM 823003 REMOVAL OF SIGN ON SPAN WIRE OR MAST ARM (EA) TRAFFIC CONTRACTOR ITEM EXCEPT FOR PILOT PROJECTS	ITEM 823001 INSTALLATION OF SIGN ON SPAN WIRE OR MAST ARM (SF) TRAFFIC CONTRACTOR ITEM EXCEPT FOR PILOT PROJECTS	REMARKS
										SIGN DISPOSITION	REMOVE	INSTALL	SIGN DISPOSITION	REMOVE	INSTALL											
SS-37	1	W11-1-DE(30)	1	BICYCLE (Symbol) IN LANE - 30x30	30	30	6.3				NEW				SOIL	1										
SS-38	1	W11-1-DE(30)	1	BICYCLE (Symbol) IN LANE - 30x30	30	30	6.3				NEW				SOIL	1										
SS-38	2	W11-1-DE(30)	1	BICYCLE (Symbol) IN LANE - 30x30	30	30	6.3				NEW				SOIL	1										
SS-38	3A	W1-7(48)	1	TWO DIRECTIONAL LARGE ARROW - 48x24	48	24	8.0					NEW		8.0												
SS-38	3B	OM4-3	1	END OF ROAD OBJECT MARKER	18	18	2.3				ADD TO ASSEMBLY															
SS-38	3C	OM4-3	1	END OF ROAD OBJECT MARKER	18	18	2.3				ADD TO ASSEMBLY															
SS-39	1A	W3-3(36)	1	SIGNAL AHEAD (Symbol) - 36x36	36	36					REMAIN															
SS-39	1B	W16-8P	1	ADVANCE STREET NAME (1 - line plaque)	36	9	2.3				ADD TO ASSEMBLY															"Old Coach Rd" (Highway Font C. 4" Normal Kerning) (Right Arrow)
SS-40	1A	W11-15(48)	1	BIKE - PEDESTRIAN (Symbol) - 48x48	48	48					REMAIN															
SS-40	1B	W16-7P_R(24)	1	RIGHT DOWNWARD DIAGONAL ARROW (plaque) - 24x12	24	12					REMAIN															
SS-40	1C	W11-15(48)	1	BIKE - PEDESTRIAN (Symbol) - 48x48	48	48					REMAIN									NEW (POLE)	16.0	16.0				SIGN TO BE INSTALLED ON EXISTING PEDESTAL POLE
SS-40	1D	W16-7P_L(24)	1	LEFT DOWNWARD DIAGONAL ARROW (plaque) - 24x12	24	12					REMAIN															
SS-41	1	W11-3(36)	1	DEER (Symbol) - 36x36	36	36					REMOVE	1														
SS-41	2A	W21-9-DE(36)	1	WATCH FOR TURNING TRAFFIC - 36x36	36	36					REMAIN															
SS-41	2B	W13-1P-35(18)	1	ADVISORY SPEED (35 MPH) 18x18	18	18					REMOVE	1														
PAGE TOTALS							34	0	0			2	6			5	0	0	0		16	16	0	0		

PERMANENT SIGN SCHEDULE - POLLY DRUMMOND ROAD & OLD COACH ROAD SIGNAL MOUNTED SIGNS

SHEET NO.	PLAN IDENTIFIER	SIGN DESIGNATION	QTY.	DESCRIPTION	SIGN WIDTH (IN)	SIGN HEIGHT (IN)	X13 / ITEM 818001 FLAT SHEET ALUMINUM TYPE IV RETROREFLECTIVE SHEETING (SF)	X14 / ITEM 818003 FLAT SHEET ALUMINUM TYPE XI RETROREFLECTIVE SHEETING (SF)	X15 / ITEM 819512 SIGN POST REFLECTIVE PANEL (EA)	ITEM 819018 INSTALLATION OR REMOVAL OF TRAFFIC SIGN(S) ON SINGLE POST (EACH)			ITEM 819019 INSTALLATION OR REMOVAL OF TRAFFIC SIGN(S) ON MULTIPLE SIGN POSTS (SF)			POST INSTALLATION TYPE	X16 / ITEM 819011 12' SIGNPOSTS W/ BASEPOSTS & HARDWARE (EACH)	X17 / ITEM 819023 15' SIGNPOSTS W/ BASEPOSTS & HARDWARE (EACH)	ITEM 819016 4" HOLE 0-6" (EACH)	ITEM 819017 4" HOLE >6" (EACH)	SIGN DISPOSITION	X14A FLAT SHEET ALUMINUM SIGN PANELS (TYPE XI SHEETING) - SIGNS ON POLES, SPAN WIRES, MAST ARMS (TRAFFIC SUPPLY)	ITEM 822500 INSTALL OVERHEAD SIGN (SF) ON SIGNAL POLES TRAFFIC CONTRACTOR ITEM EXCEPT FOR PILOT PROJECTS	ITEM 823003 REMOVAL OF SIGN ON SPAN WIRE OR MAST ARM (EA) TRAFFIC CONTRACTOR ITEM EXCEPT FOR PILOT PROJECTS	ITEM 823001 INSTALLATION OF SIGN ON SPAN WIRE OR MAST ARM (SF) TRAFFIC CONTRACTOR ITEM EXCEPT FOR PILOT PROJECTS	REMARKS				
										SIGN DISPOSITION	REMOVE	INSTALL	SIGN DISPOSITION	REMOVE	INSTALL															
91	S-1	D3-1(18)	1	STREET NAME (OVERHEAD) - 1 LINE	84	18		10.5																		(left arrow) Old Coach Rd (Highway Font D. 8'/6" Normal Kerning, Installed on Mast Arm)				
91	S-2	D3-1(18)	1	STREET NAME (OVERHEAD) - 1 LINE	84	18		10.5																		"Old Coach Rd (right arrow)" (Highway Font D. 8'/6" Normal Kerning, Installed on Mast Arm, printed on back of S-1)				
91	S-3	R3-4(36)	1	U - TURN PROHIBITION (Symbol) - 36x36 (OVERHEAD)	36	36		9.0																	Mounted on Mast Arm					
91	S-4	D3-1(18)	1	STREET NAME (OVERHEAD) - 1 LINE	120	18		15.0																	"Polly Drummond Hill Rd" (Highway Font D. 8'/6" Normal Kerning, Installed on Mast Arm)					
92	S-5	W3-3-DE2	1	RED SIGNAL AHEAD WHEN FLASHING - 48x48	48	48	20.0														20.0	20.0			"RED SIGNAL AHEAD WHEN FLASHING" (Diamond Shape Sign, Installed on Pedestal Pole)					
92	S-6	W16-8P	1	ADVANCE STREET NAME (1 - line plaque)	48	9	3.0														3.0	3.0			"(left arrow) Old Coach Rd", Mounted to pedestal pole					
92	S-7	W3-3-DE (CUSTOM)	1	RED SIGNAL AHEAD WHEN FLASHING (CUSTOM) - 60x60	60	60																1.0			Remove Existing Sign on Pedestal Pole					
PAGE TOTALS							23	45	0			0	0			0	0	0	0		68	23	1	45						
JOB TOTALS							332	252	0			54	92			8	16					37	3	0	0		84	39	1	45

ADDENDUMS / REVISIONS

NOT TO SCALE

PAVEMENT & REHABILITATION,
NORTH I, 2024
POLLY DRUMMOND HILL ROAD

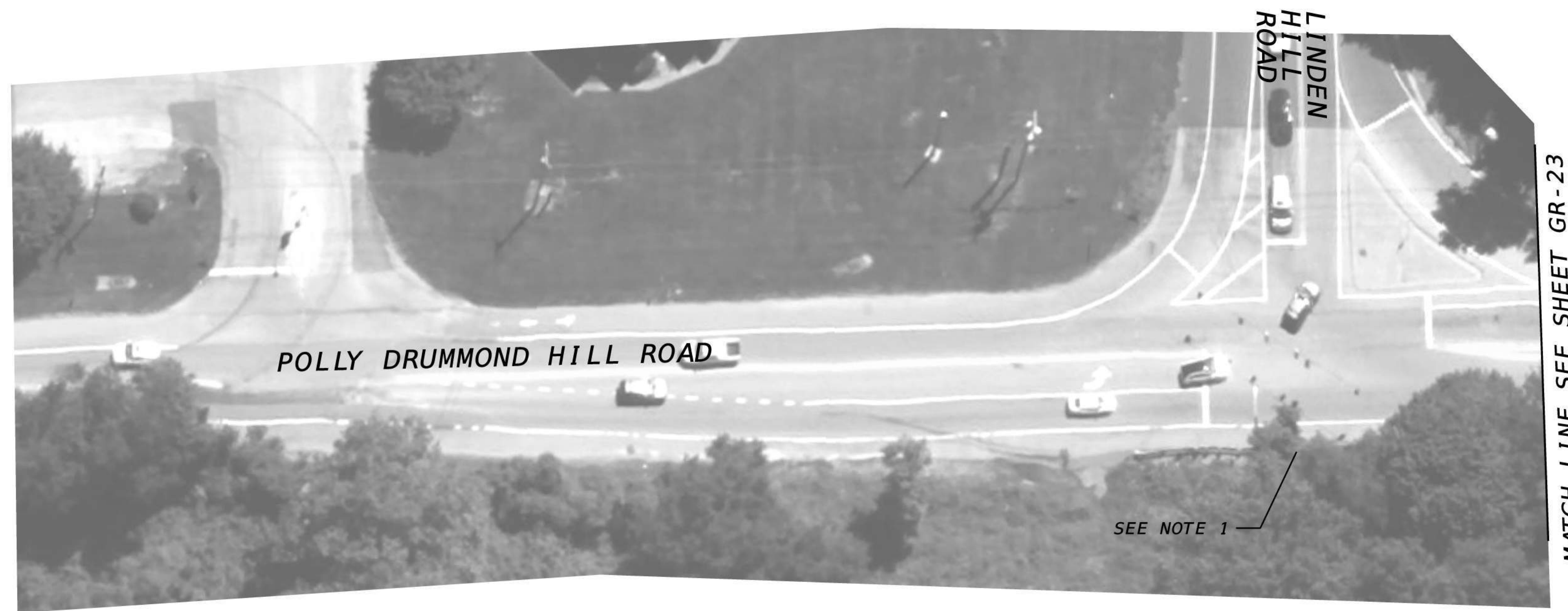
CONTRACT T202406101.02	ROAD NO. N328
COUNTY NEW CASTLE	DESIGNED BY: J. CLEM
	CHECKED BY: R. KUSY

PERMANENT
SIGN SCHEDULE

SECTION JMT
SHEET NO. 87

NOTES:

1. EXISTING GUARDRAIL IS LESS THAN 31". EXISTING UTILITY POLE WITHIN THE DEFLECTION DISTANCE PREVENTS THE GUARDRAIL TO BE COMPLIANT WITH MASH AND DELDOT STANDARD GUARDRAIL DETAILS. RELOCATING THE UTILITY POLE TO IMPROVE THE GUARDRAIL SYSTEM IS OUTSIDE OF THE SCOPE OF THE PAVEMENT & REHABILITATION PROJECTS.

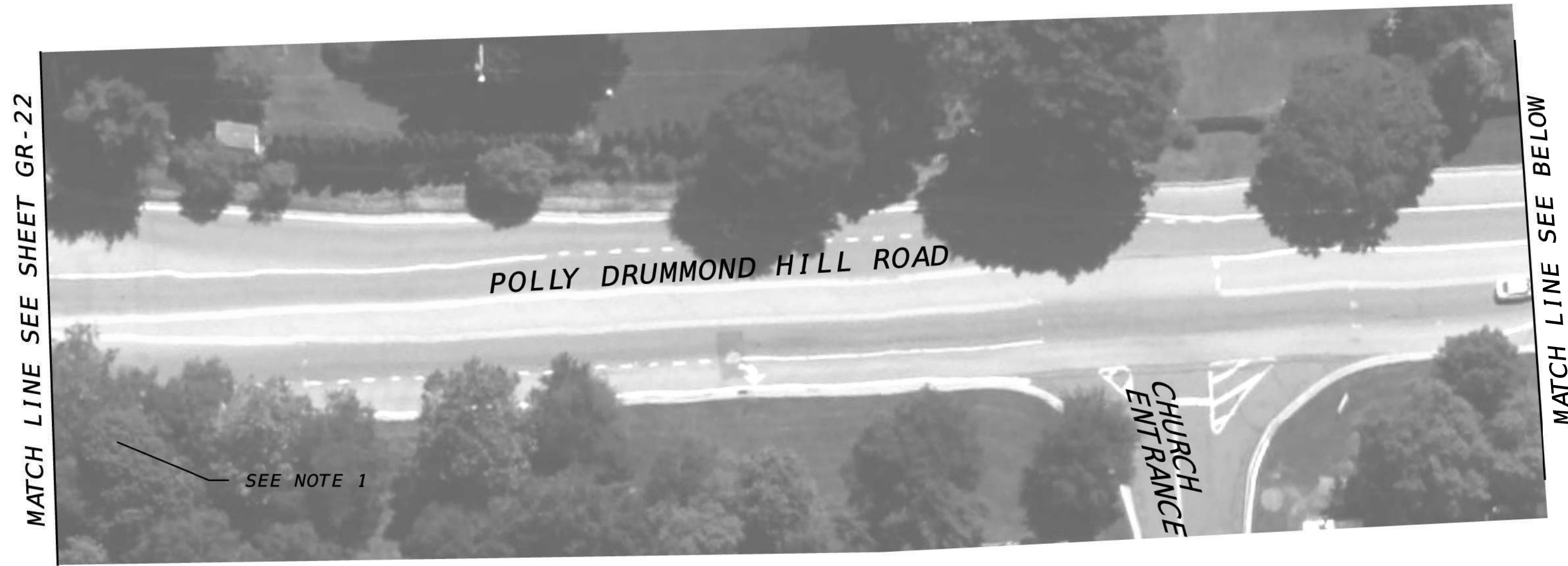


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	ADDENDUMS / REVISIONS	SCALE FEET	PAVEMENT & REHABILITATION NORTH I, 2024 POLLY DRUMMOND HILL ROAD	CONTRACT T202406101.02 COUNTY NEW CASTLE	ROAD NO. N328 DESIGNED BY: M. TAPLIN CHECKED BY: B. DOUGHERTY	GUARDRAIL PLANS	GR-22 SECTION JMT SHEET NO. 88
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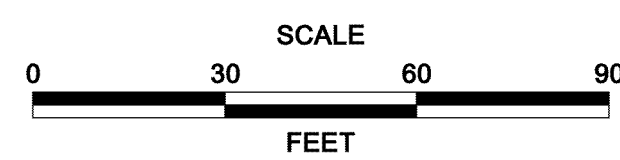
NOTES:

- EXISTING GUARDRAIL IS LESS THAN 31" EXISTING UTILITY POLE WITHIN THE DEFLECTION DISTANCE PREVENTS THE GUARDRAIL TO BE COMPLIANT WITH MASH AND DELDOT STANDARD GUARDRAIL DETAILS - RELOCATING THE UTILITY POLE IS OUTSIDE OF THE SCOPE OF THE PAVEMENT & REHABILITATION PROJECTS.



7-AUG-2024 19:06 p:\jmt-pw-bentley.com\jmt-pw-01\Documents\Projects\2019\19-00797-002\JMT\General\2D Drawing\GR Files\GR - Polly Drummond Rd.dgn

ADDENDUMS / REVISIONS



**PAVEMENT & REHABILITATION
NORTH I, 2024
POLLY DRUMMOND HILL ROAD**

CONTRACT	ROAD NO.	N328
T202406101.02	DESIGNED BY :	M. TAPLIN
COUNTY	CHECKED BY :	B. DOUGHERTY
NEW CASTLE		

GUARDRAIL PLANS

GR-23
SECTION
JMT
SHEET NO.
89



GUARDRAIL SCHEDULE				
NO.	ITEM DESCRIPTION / TYPE	BEGIN STA.	OFFSET	LENGTH
301	END TREATMENT, ATTENUATOR TYPE 1	424+23.43	27.88	50.00
302	GALVANIZED STEEL BEAM GUARDRAIL, TYPE 1-31	424+76.56	23.00	125.00
303	GALVANIZED STEEL BEAM GUARDRAIL, TYPE 2-31	426+04.51	23.00	62.50
304	GALVANIZED STEEL BEAM GUARDRAIL, TYPE 1-31	426+63.88	23.00	437.50

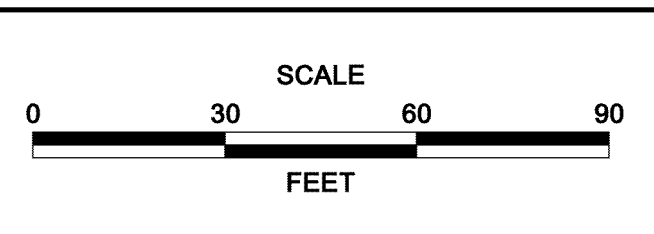
NOTES

1. SEE STANDARD DETAIL B-1, TYPE 1-31 GUARDRAIL APPLICATION.
2. SEE STANDARD DETAIL B-1, TYPE 2-31 GUARDRAIL APPLICATION.
3. SEE STANDARD DETAIL B-2, GUARDRAIL END TREATMENT ATTENUATOR TYPE 1-31.



7-AUG-2024
 15:08
 pwl/jmt-pw-bentley.com/jmt-pw-01/Documents/Projects/2019/19-00797-002/JMT/General/2D Drawing/GR Files/GR - Polly Drummond Rd.dgn

ADDENDUMS / REVISIONS



**PAVEMENT & REHABILITATION
NORTH I, 2024
POLLY DRUMMOND HILL ROAD**

CONTRACT	ROAD NO.	N328
T202406101.02	DESIGNED BY:	M. TAPLIN
COUNTY	CHECKED BY:	B. DOUGHERTY
NEW CASTLE		

GUARDRAIL PLANS

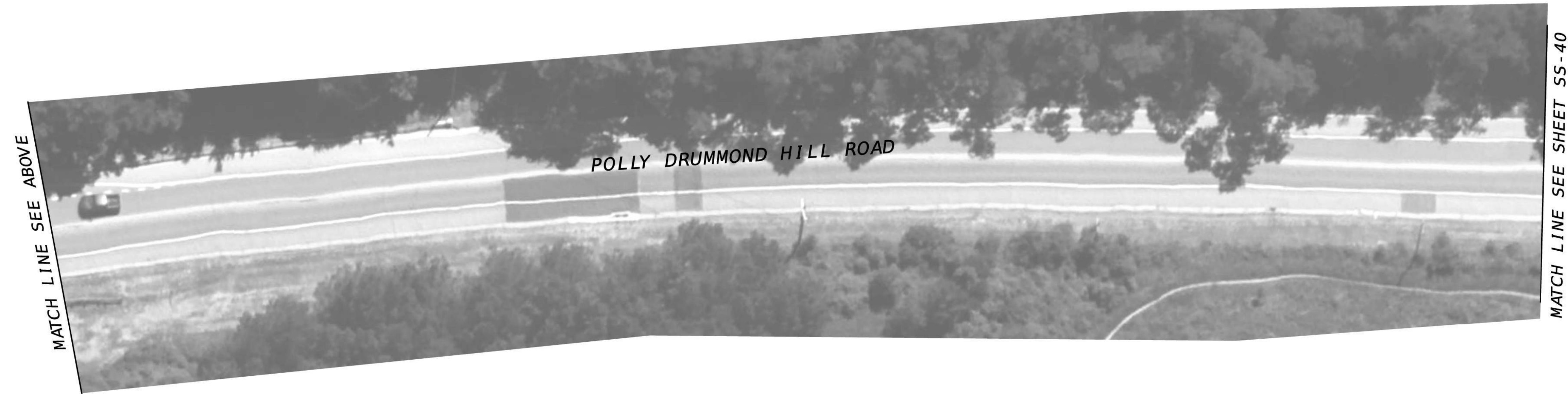
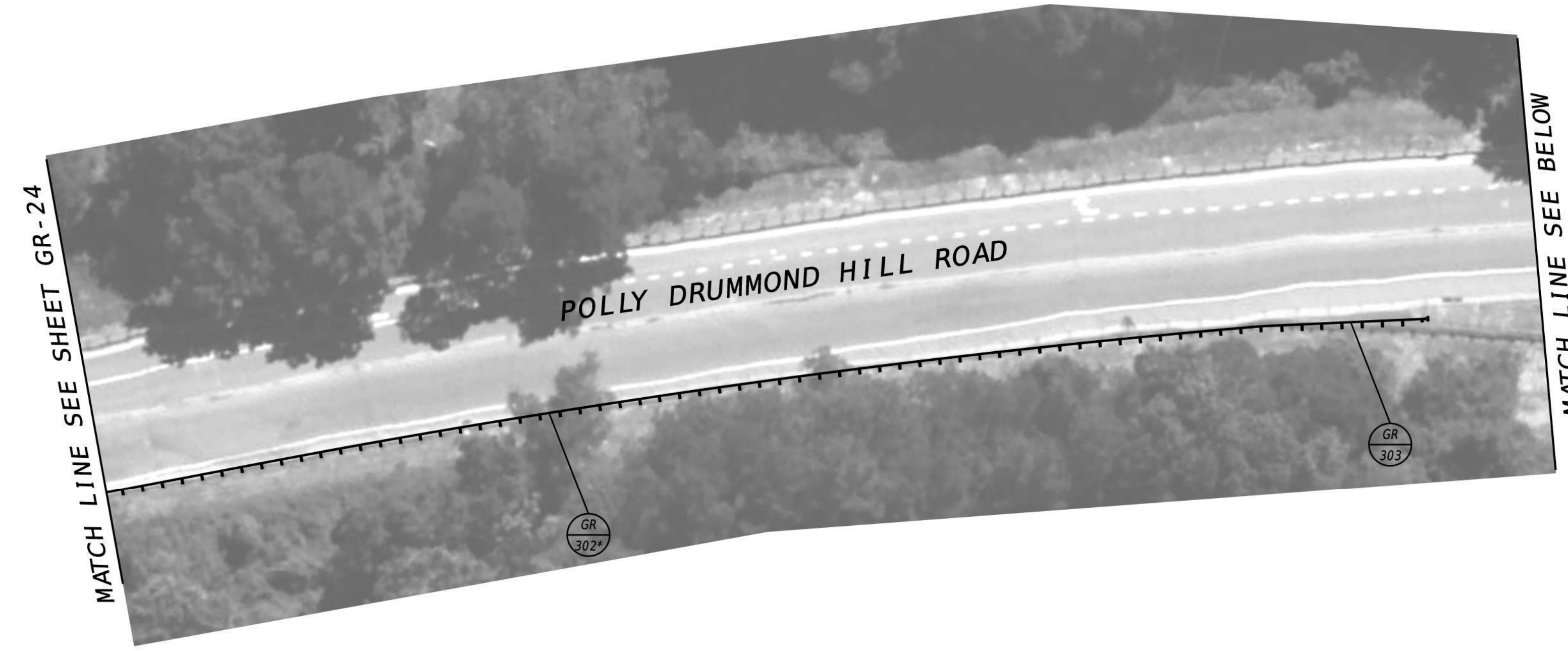
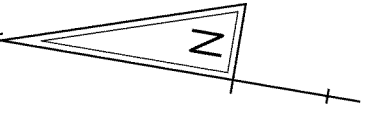
GR-24
SECTION
JMT
SHEET NO.
90

GUARDRAIL SCHEDULE				
NO.	ITEM DESCRIPTION / TYPE	BEGIN STA.	OFFSET	LENGTH
304	GALVANIZED STEEL BEAM GUARDRAIL, TYPE 1-31	424+76.56	23.00	*
305	END TREATMENT, ATTENUATOR TYPE 1	431+04.02	23.00	50.00

* QUANTITY SHOWN ON SHEET GR-23

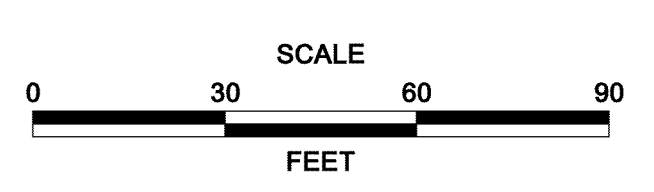
NOTES

- SEE STANDAR DETAIL B-1, TYPE 1-31 GUARDRAIL APPLICATION.
- SEE STANDARD DETAIL B-2, GUARDRAIL END TREATMENT ATTENUATOR TYPE 1-31.



7-AUG-2024 19:10 pwl/jmt-pw.bentley.com:jmt-pw-01/Documents/Projects/2019/19-00797-002/JMT/General/2D Drawing/GR/GR - Polly Drummond Rd.dgn

ADDENDUMS / REVISIONS	



**PAVEMENT & REHABILITATION
NORTH I, 2024
POLLY DRUMMOND HILL ROAD**

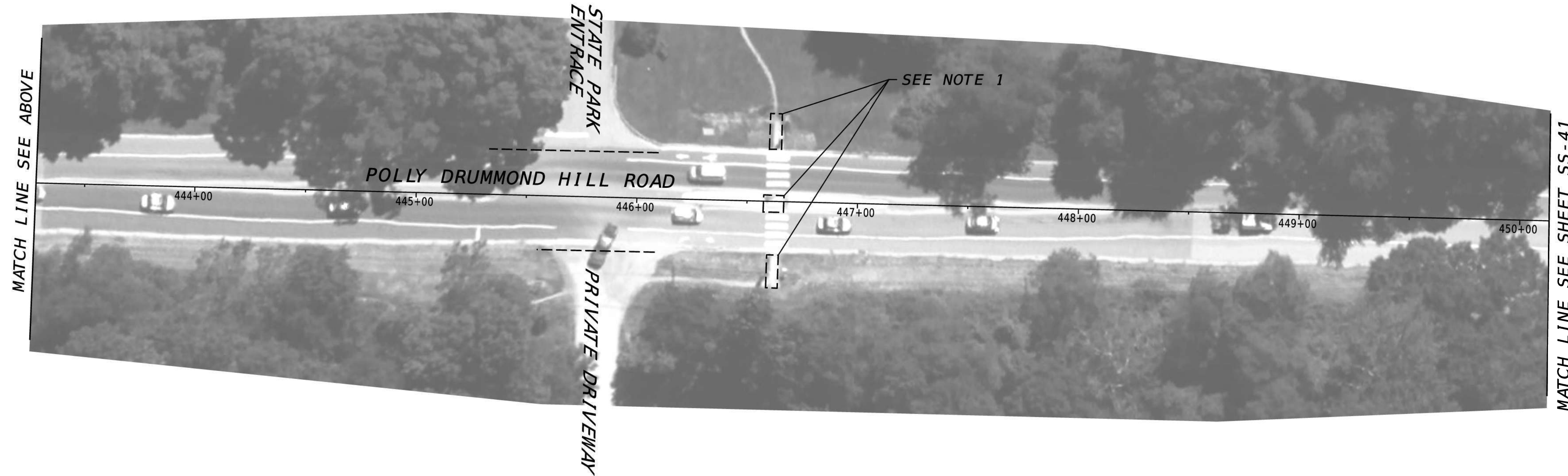
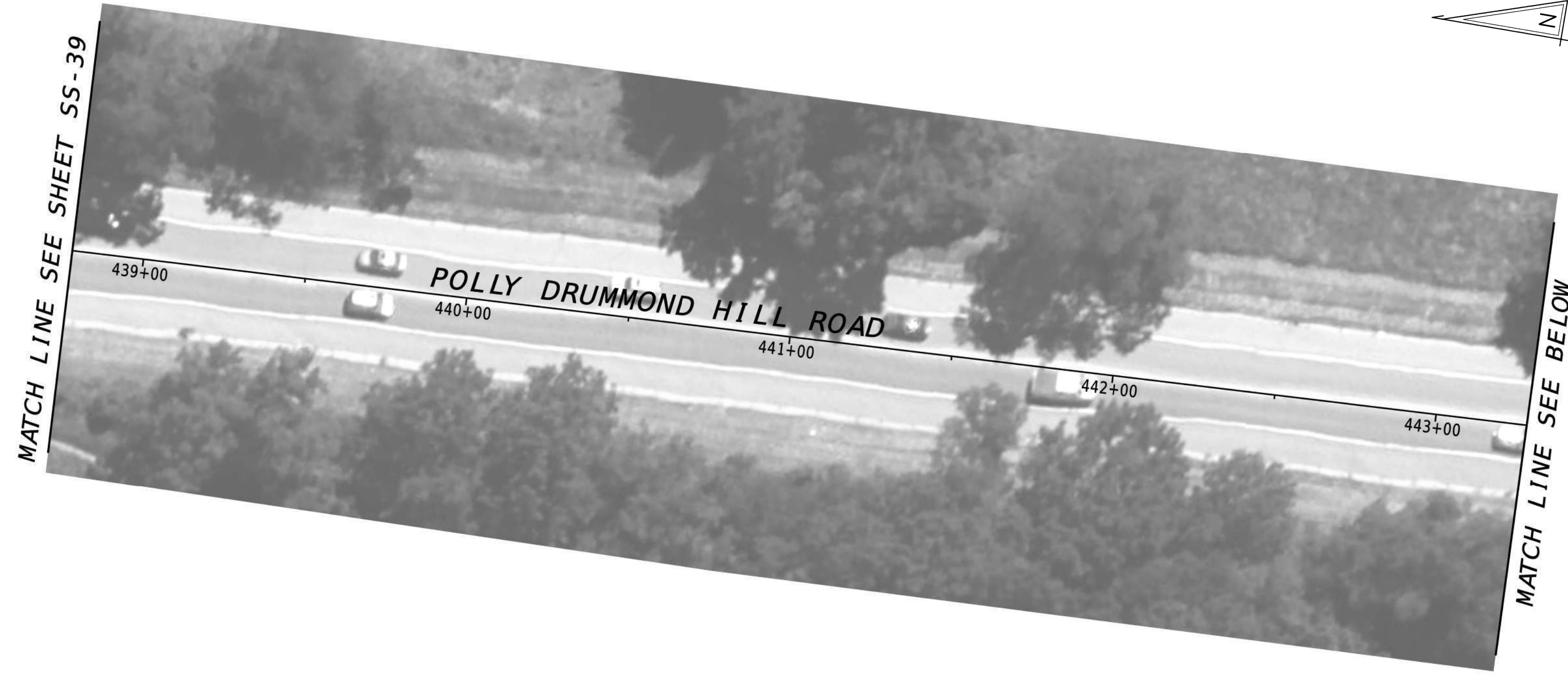
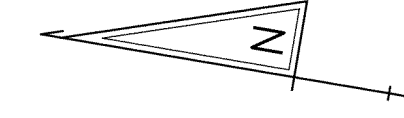
CONTRACT	ROAD NO.	N328
T202406101.02	DESIGNED BY:	M. TAPLIN
COUNTY	CHECKED BY:	B. DOUGHERTY
NEW CASTLE		

GUARDRAIL PLANS	SECTION
	JMT
	SHEET NO.
	91

GR-25

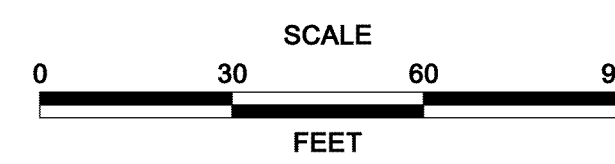
NOTES

1. THE PEDESTRIAN CONNECTION MEETS MINIMUM COMPLIANCE CRITERIA. MAINTENANCE REQUIRED TO ADDRESS OVERGROWTH AND DEBRIS.



7-AUG-2024 2:23:26 pm://jmt-pw-bentley.com/jmt-pw-01/Documents/Projects/2019/19-00797-002/JMT/General/2D Drawing/ADA Design/PR - Polly Drummond Rd.dgn

ADDENDUMS / REVISIONS

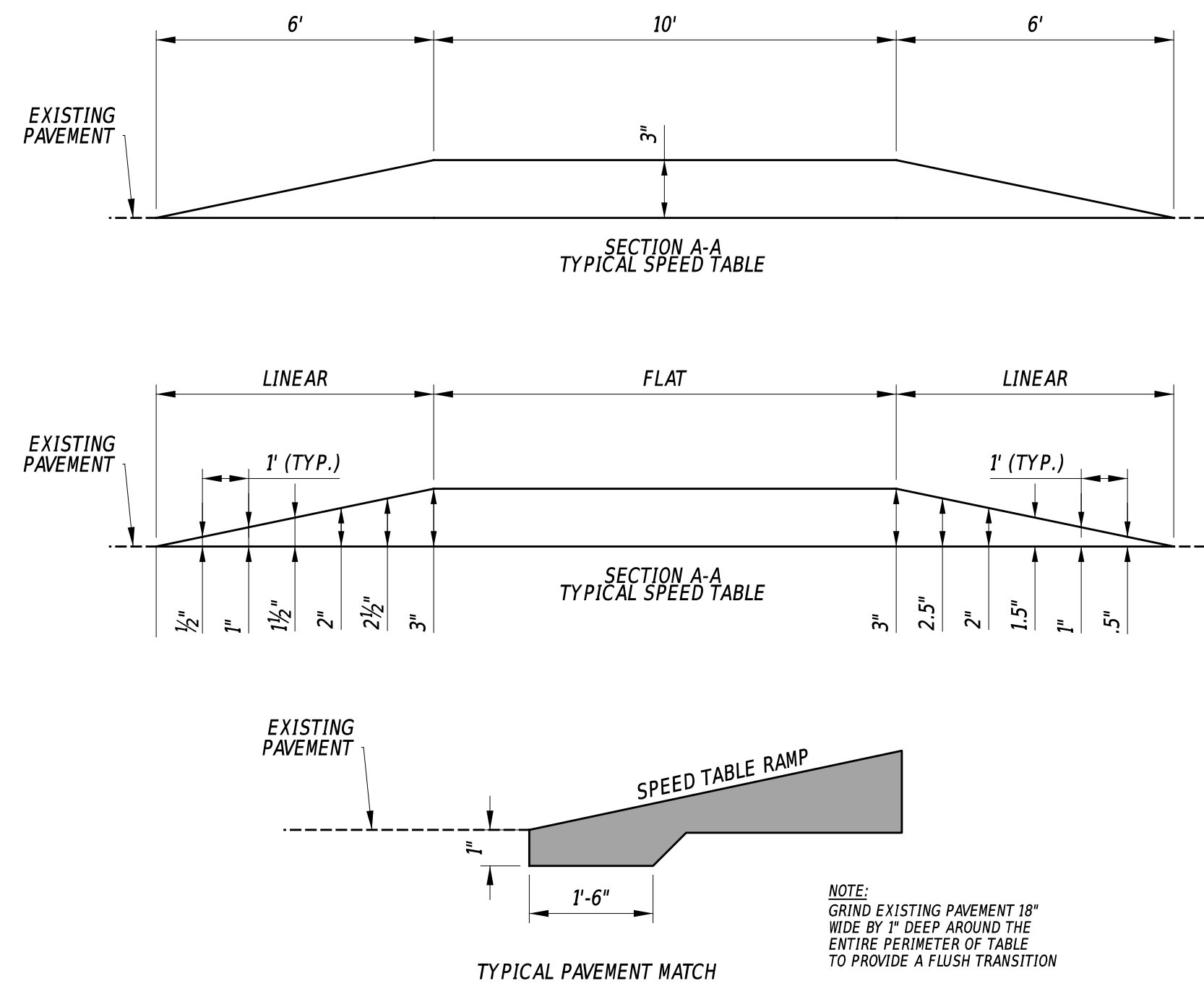
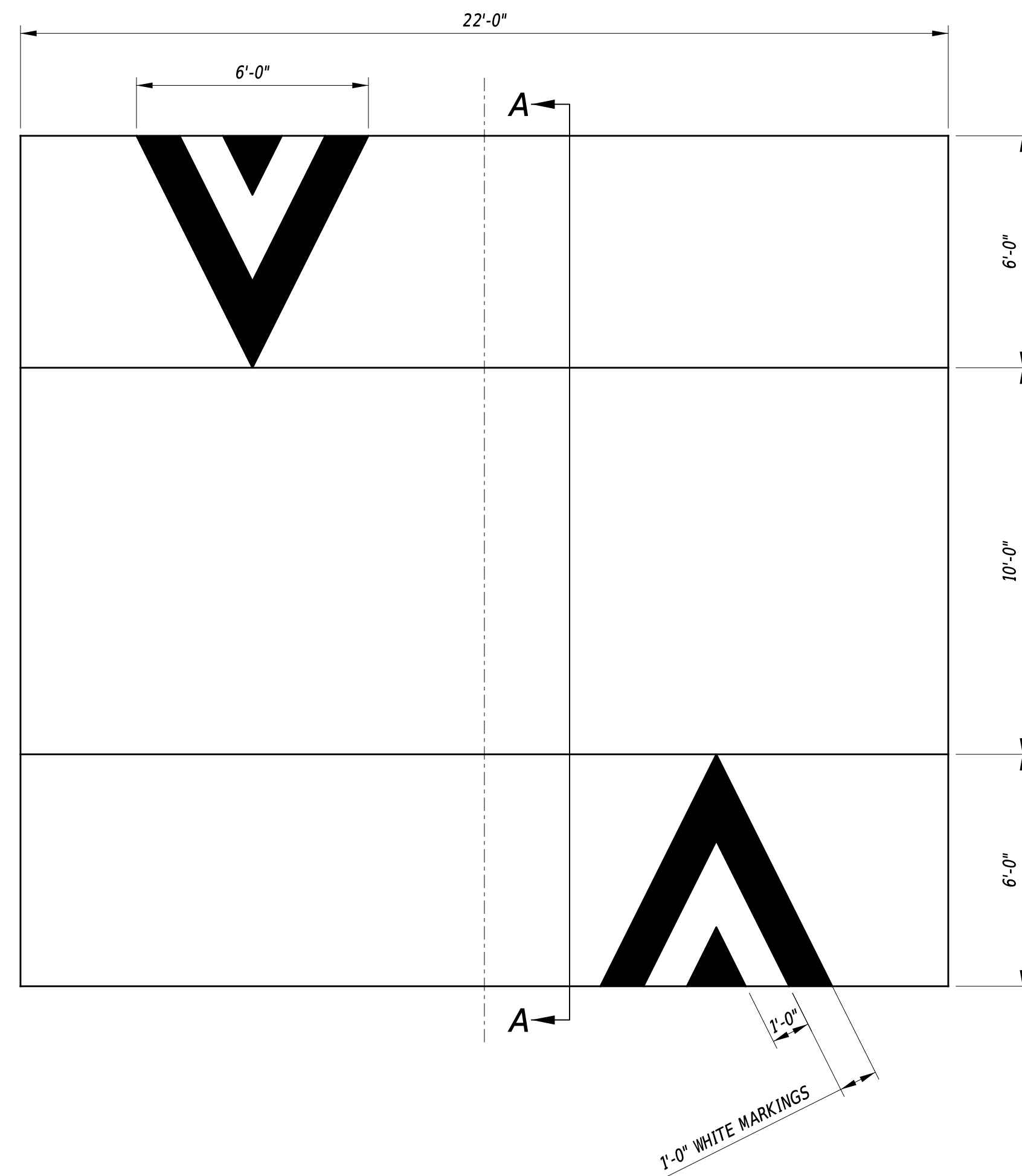


**PAVEMENT & REHABILITATION
NORTH I, 2024
POLLY DRUMMOND HILL ROAD**

CONTRACT	ROAD NO.	N328
T202406101.02	DESIGNED BY : M. TAPLIN	
COUNTY	CHECKED BY: B. DOUGHERTY	
NEW CASTLE		

**PEDESTRIAN
IMPROVEMENT
PLAN**

PIP-14
SECTION
JMT
SHEET NO.
92



SPEED TABLE - ITEM 401506
NOT TO SCALE

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ADDENDUMS / REVISIONS

NOT TO SCALE

**PAVEMENT & REHABILITATION
NORTH I, 2024
PAPER MILL ROAD**

CONTRACT
T202406101.02
COUNTY
NEW CASTLE

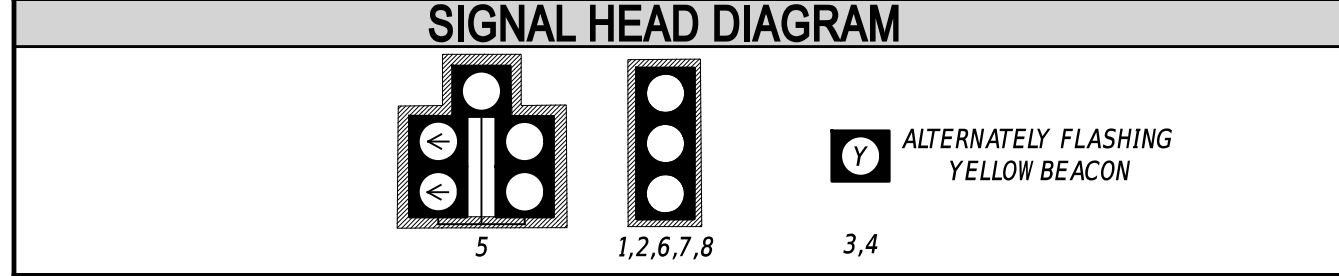
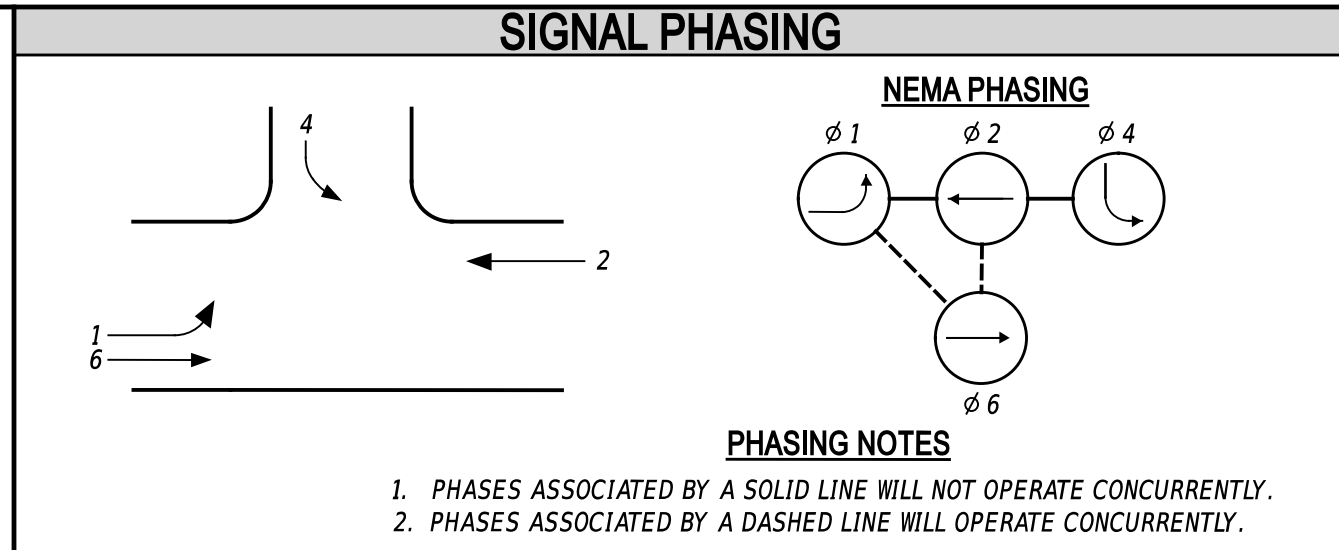
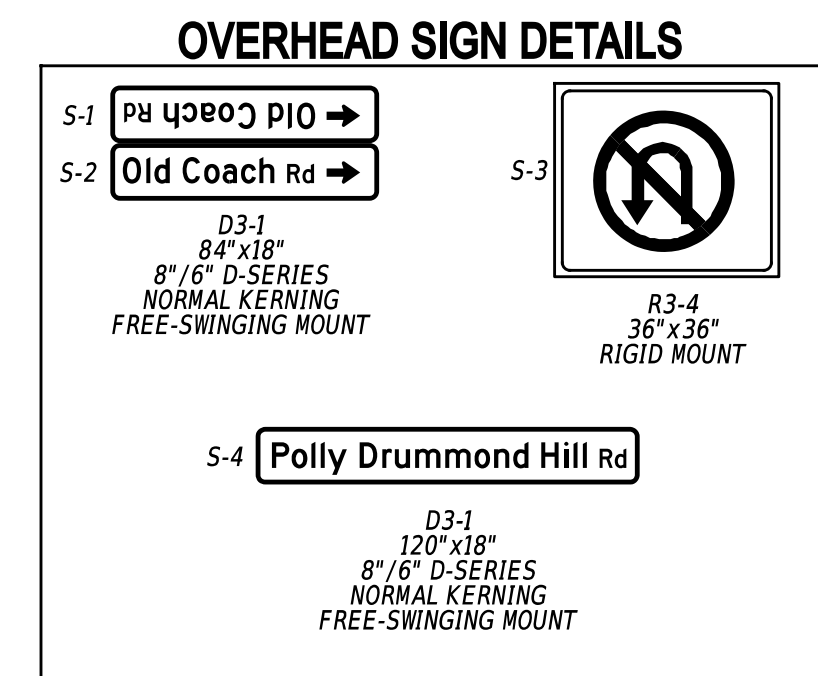
ROAD NO. **N013**
DESIGNED BY: M. TAPLIN
CHECKED BY: B. DOUGHERTY

CONSTRUCTION DETAILS

DT-01
SECTION
JMT
SHEET NO.
93

ADDITIONAL GENERAL SIGNAL NOTES

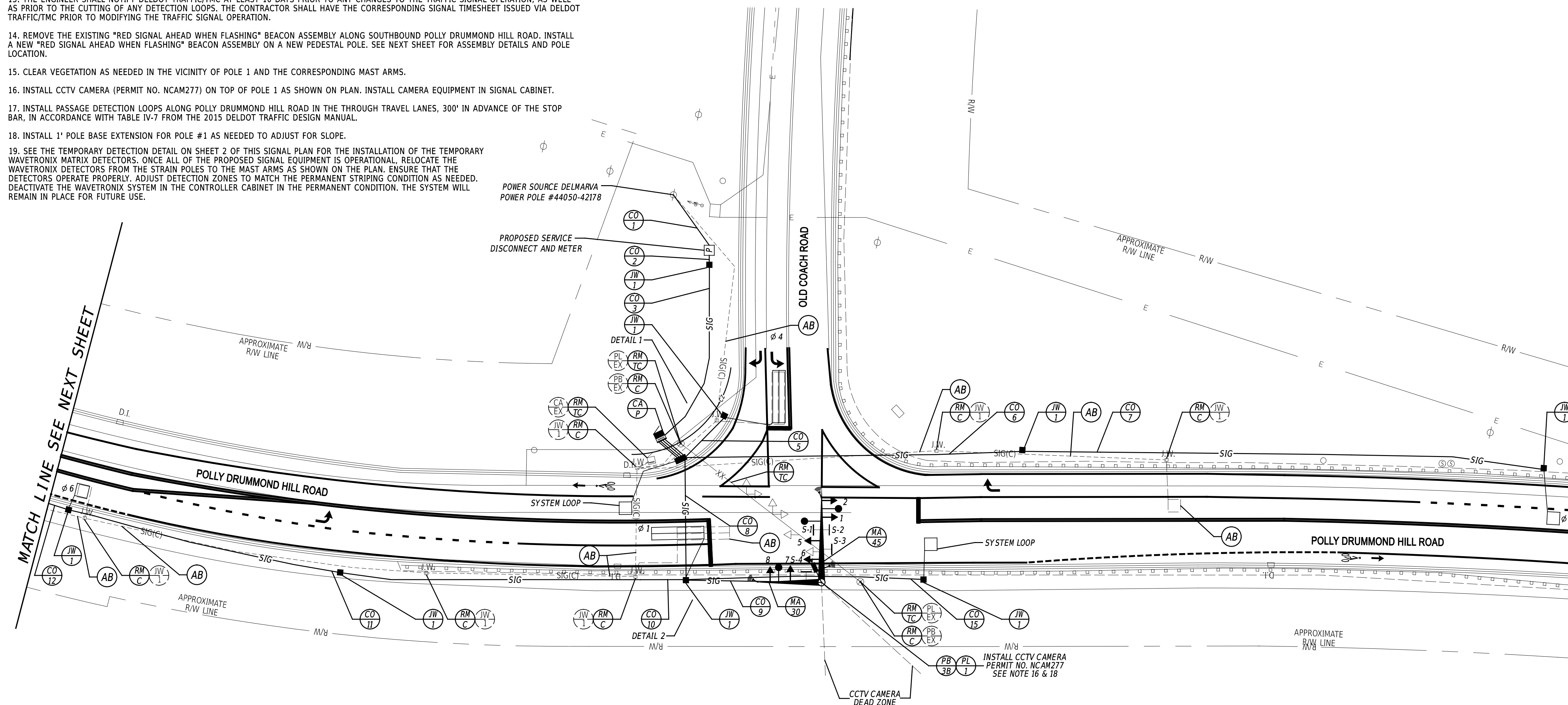
- POLE BASES, CABINET BASES, AND CONDUIT JUNCTION WELLS TO BE REMOVED IN ACCORDANCE WITH SECTION 211 OF THE STANDARD SPECIFICATIONS OR AS DIRECTED BY THE ENGINEER, AND SHALL BE PAID BY ITEM #211000. DELDOT'S TRAFFIC CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF THE POLES AND ASSOCIATED SIGNAL EQUIPMENT, AND CABINET. THE GENERAL CONTRACTOR WILL BE RESPONSIBLE FOR THE REMOVAL OF THE POLE FOUNDATIONS. ABANDON EXISTING CONDUIT AS NOTED. TRAFFIC CONTRACTOR SHALL REMOVE ANY CABLES IN CONDUITS TO BE ABANDONED.
- INSTALL BACKPLATES FOR ALL SIGNAL HEADS. INSTALL A 2" RETROREFLECTIVE YELLOW STRIP ON THE BORDER OF THE NEW BACKPLATES.
- MAINTAIN EXISTING POWER SOURCE AT DELMARVA POWER POLE #44050-42178
- EXISTING RIGHT OF WAY LINES ARE BASED ON THE EXISTING SIGNAL PLANS AND OTHER AS-BUILT PLANS (CONTRACT NO. 69-11-001) AND ARE SHOWN APPROXIMATELY FOR GRAPHICAL PURPOSES ONLY.
- MAINTAIN THE EXISTING SIGNAL CONTROLLER CABINET AND POWER SOURCE UNTIL THE PROPOSED SIGNAL CONTROLLER CABINET IS OPERATIONAL AND IS POWERED BY THE PROPOSED POWER SOURCE. THE SIGNAL SHALL BE OPERATIONAL THROUGHOUT CONSTRUCTION.
- REMOVE EXISTING SPAN WIRE, OVERHEAD SIGNAL CABLES, AND SIGNAL HEADS.
- THE LOCATIONS FOR THE EXISTING UTILITIES ARE BASED ON THE AS-BUILT PLANS AS WELL AS INFORMATION OBTAINED FROM THE FOLLOWING UTILITY COMPANIES: CHESAPEAKE UTILITIES CORPORATION, DELMARVA POWER & GAS, AND CROWN CASTLE.
- REFER TO THE NOTES SHEET OF THE CONTRACT FOR MORE INFORMATION REGARDING ALLOWABLE LANE CLOSURE TIMES AND TYPICAL APPLICATIONS FOR MAINTENANCE OF TRAFFIC DIRECTION DURING CONSTRUCTION.
- INSTALL CDMA IN THE PROPOSED TRAFFIC CONTROLLER CABINET.
- ONCE THE FINAL WEARING COURSE HAS BEEN CONSTRUCTED, INSTALL LOOP DETECTORS AND HOME RUN CABLES AS SHOWN.
- THE ENGINEER SHALL NOTIFY DELDOT TRAFFIC/TMC AT LEAST 10 DAYS PRIOR TO ANY CHANGES TO THE TRAFFIC SIGNAL OPERATION, AS WELL AS PRIOR TO THE CUTTING OF ANY DETECTION LOOPS. THE CONTRACTOR SHALL HAVE THE CORRESPONDING SIGNAL TIMESHEET ISSUED VIA DELDOT TRAFFIC/TMC PRIOR TO MODIFYING THE TRAFFIC SIGNAL OPERATION.
- REMOVE THE EXISTING "RED SIGNAL AHEAD WHEN FLASHING" BEACON ASSEMBLY ALONG SOUTHBOUND POLLY DRUMMOND HILL ROAD. INSTALL A NEW "RED SIGNAL AHEAD WHEN FLASHING" BEACON ASSEMBLY ON A NEW PEDESTAL POLE. SEE NEXT SHEET FOR ASSEMBLY DETAILS AND POLE LOCATION.
- CLEAR VEGETATION AS NEEDED IN THE VICINITY OF POLE 1 AND THE CORRESPONDING MAST ARMS.
- INSTALL CCTV CAMERA (PERMIT NO. NCAM277) ON TOP OF POLE 1 AS SHOWN ON PLAN. INSTALL CAMERA EQUIPMENT IN SIGNAL CABINET.
- INSTALL PASSAGE DETECTION LOOPS ALONG POLLY DRUMMOND HILL ROAD IN THE THROUGH TRAVEL LANES, 300' IN ADVANCE OF THE STOP BAR, IN ACCORDANCE WITH TABLE IV-7 FROM THE 2015 DELDOT TRAFFIC DESIGN MANUAL.
- INSTALL 1' POLE BASE EXTENSION FOR POLE #1 AS NEEDED TO ADJUST FOR SLOPE.
- SEE THE TEMPORARY DETECTION DETAIL ON SHEET 2 OF THIS SIGNAL PLAN FOR THE INSTALLATION OF THE TEMPORARY WAVETRONIX MATRIX DETECTORS. ONCE ALL OF THE PROPOSED SIGNAL EQUIPMENT IS OPERATIONAL, RELOCATE THE WAVETRONIX DETECTORS FROM THE STRAIN POLES TO THE MAST ARMS AS SHOWN ON THE PLAN. ENSURE THAT THE DETECTORS OPERATE PROPERLY. ADJUST DETECTION ZONES TO MATCH THE PERMANENT STRIPING CONDITION AS NEEDED. DEACTIVATE THE WAVETRONIX SYSTEM IN THE CONTROLLER CABINET IN THE PERMANENT CONDITION. THE SYSTEM WILL REMAIN IN PLACE FOR FUTURE USE.



LEGEND

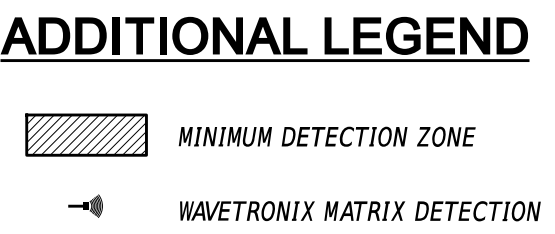
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(CA)	EXISTING CABINET IDENTIFIER (TYPE OF CABINET)	(OH)	PROPOSED OVERHEAD RUN IDENTIFIER (# OF OVERHEAD RUN)
(CA)	PROPOSED CABINET IDENTIFIER (TYPE OF CABINET)	(PB)	EXISTING POLE BASE IDENTIFIER (TYPE OF POLE BASE)
(CO)	EXISTING CONDUIT RUN IDENTIFIER (# OF CONDUIT RUN)	(PB)	PROPOSED POLE BASE IDENTIFIER (TYPE OF POLE BASE)
(CO)	PROPOSED CONDUIT RUN IDENTIFIER (# OF CONDUIT RUN)	(PL)	EXISTING POLE IDENTIFIER (# OF POLE)
(JW)	EXISTING JUNCTION WELL IDENTIFIER (TYPE OF JUNCTION WELL)	(PL)	PROPOSED POLE IDENTIFIER (# OF POLE)
(JW)	PROPOSED JUNCTION WELL IDENTIFIER (TYPE OF JUNCTION WELL)	(RM)	REMOVE BY CONTRACTOR
(MA)	EXISTING MAST ARM IDENTIFIER (LENGTH OF ARM)	(RM)	REMOVE BY OTHERS
(MA)	PROPOSED MAST ARM IDENTIFIER (LENGTH OF ARM)	(RM)	REMOVE BY TRAFFIC CONTRACTOR

	EXISTING SYMBOL	PROPOSED SYMBOL
JUNCTION WELL	J.W.	■
LOOP DETECTOR, TYPE 1	□	□
LOOP DETECTOR, TYPE 2	□	□
LUMINAIRE	⬇	⬇
MAST ARM	⬇	⬇
MICROWAVE DETECTION	⬇	⬇
OPTICOM RECEIVER	⬇	⬇
OVERHEAD SIGNING	⬇	⬇
PEDESTRIAN POLE/BASE	⊙	⊙
PEDESTRIAN PUSHBUTTON	⬇	⬇
PEDESTRIAN SIGNAL HEAD	⬇	⬇
RIGHT-OF-WAY	---	---
SERVICE PEDESTAL	⊞	⊞
SIGNAL CABINET	⊞	⊞
SIGNAL HEAD	⬇	⬇
SIGNAL POLE/BASE	⊙	⊙
CCTV CAMERA	⊞	⊞
SPAN WIRE	XX	XX
UTILITY POLE	⊞	⊞
VIDEO DETECTION	⬇	⬇



CONDUIT RUN SCHEDULE

CO NO.	NO. OF CONDUITS	SIZE/TYPE	LENGTH	INSTALL METHOD	AMOUNT AND TYPE OF CABLE / WIRE
1	1	2" -RGS	30'	T	NEW [(3) #8 THHN]
2	1	2" -RGS	5'	T	NEW [(1)2/#8 U.F. W/ GROUND]
3	1	2" -RGS	95'	T	NEW [(1)2/#8 U.F. W/ GROUND]
4	4	4" -PVC	15'	T	NEW [(1)16/#14, (1)4/#14, (3)4/#18, (6)2/#14, (1) CAT6 CCTV CABLE, (3) WAVETRONIX MATRIX CABLES, (3)1/#6 GRD]
5	1	4" -PVC	15'	T	NEW [(1)2/#14, (1)1/#6 GRD]
6	1	4" -HDPE	160'	B	NEW [(1)2/#14, (1)1/#6 GRD]
7	1	4" -PVC	250'	T	NEW [(1)2/#14, (1)1/#6 GRD]
8	1	4" -HDPE	70'	B	NEW [(1)16/#14, (1)4/#14, (3)4/#18, (3)2/#14, (1) CAT6 CCTV CABLE, (3) WAVETRONIX MATRIX CABLES, (1)1/#6 GRD]
9	1	3" -PVC	65'	T	NEW [(1)16/#14, (3)4/#18, (1) CAT6 CCTV CABLE, (3) WAVETRONIX MATRIX CABLES, (1)1/#6 GRD]
10	1	4" -PVC	170'	T	NEW [(1)4/#14, (1)2/#14, (1)1/#6 GRD]
11	1	4" -PVC	135'	T	NEW [(1)4/#14, (1)2/#14, (1)1/#6 GRD]
12	1	4" -PVC	145'	T	NEW [(1)4/#14, (1)1/#6 GRD]
13	1	4" -PVC	145'	T	NEW [(1)4/#14, (1)1/#6 GRD]



POLE SCHEDULE

POLE NO.	TYPE	NORTHING	EASTING
1	45' & 30' MAST ARMS W/ TYPE 3B POLE BASE	623379.7748	573317.3314
2	14' PEDESTAL POLE W/ TYPE 6B POLE BASE	624020.1303	573231.1510

MAST ARM SCHEDULE

MA NO.	HEIGHT OF POLE	LENGTH OF ARM	NO. OF HEADS	NO. OPTICOM RECEIVERS	S.F. OF SIGNING	ARM MOUNT HEIGHT
1	21'-6"	45'	4	2	10.5	20'-0"
2	21'-6"	30'	2	1	15	18'-6"

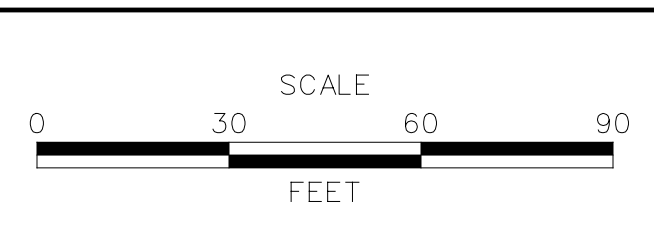
CONDUIT RUN SCHEDULE

CO NO.	NO. OF CONDUITS	SIZE/TYPE	LENGTH	INSTALL METHOD	AMOUNT AND TYPE OF CABLE / WIRE
14	1	2.5" -PVC	10'	T	NEW [(1)4/#14, (1)1/#6 GRD]
15	1	4" -PVC	115'	T	NEW [(1)2/#14, (1)1/#6 GRD]

* DENOTES EXISTING CONDUIT RUN.
 TYPES: HDPE, PVC, RGS, EX = EXISTING
 INSTALL METHODS: B=BORE, IB=IN BARRIER, OC=OPEN CUT, OS=ON STRUCTURE, T=TRENCH

ADDENDA / REVISIONS

NO.	DESCRIPTION



PAVEMENT & REHABILITATION NORTH I, 2024 POLLY DRUMMOND HILL ROAD

CONTRACT	7202406101.02
PERMIT NO.	N258, NCAM277
DESIGNED BY:	S. BUNITSKY/J. SMITH
COUNTY	NEW CASTLE
CHECKED BY:	M. WAHED

SIGNAL PLAN POLLY DRUMMOND HILL ROAD @ OLD COACH ROAD

SECTION	JMT
SHEET NO.	94

PREPARED BY

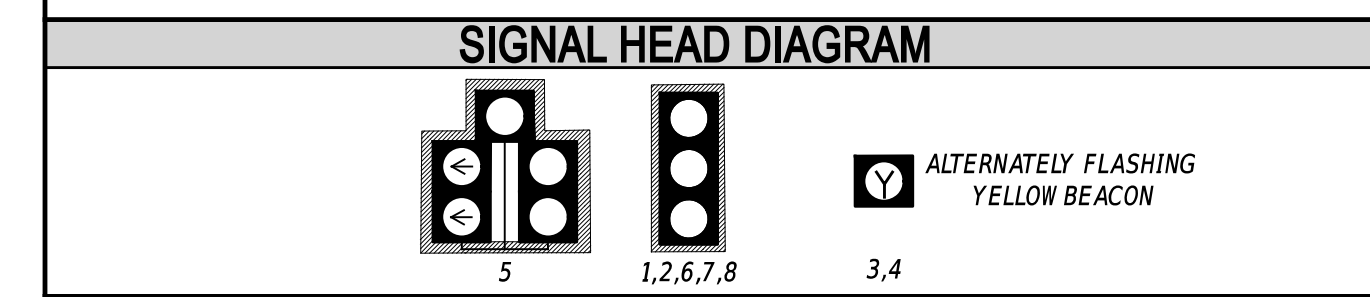
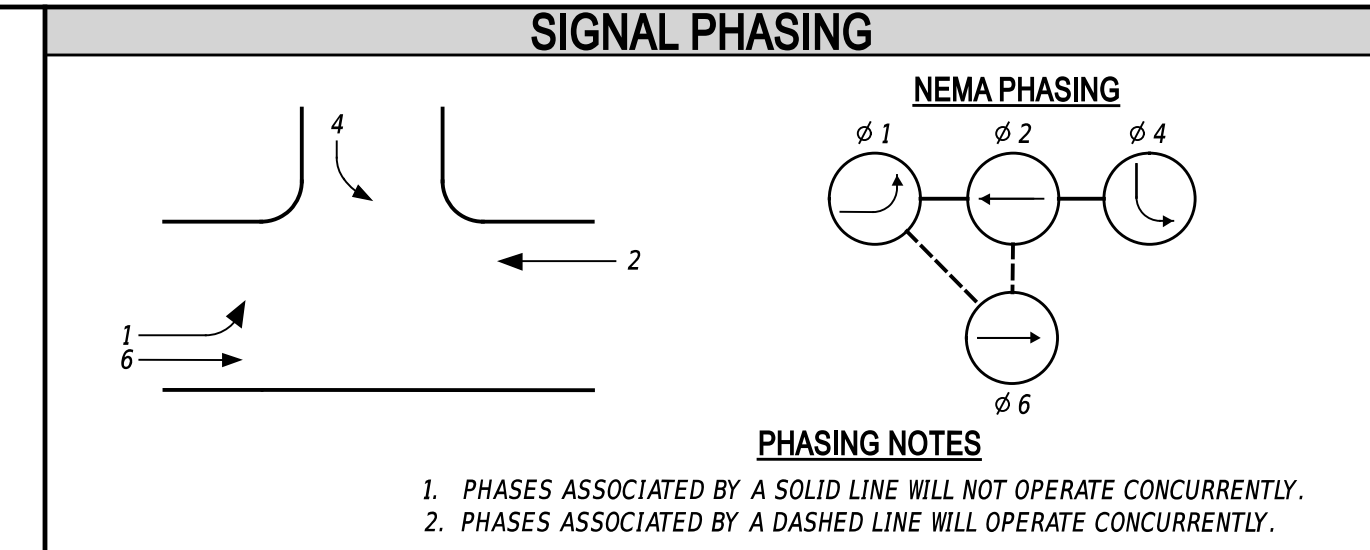
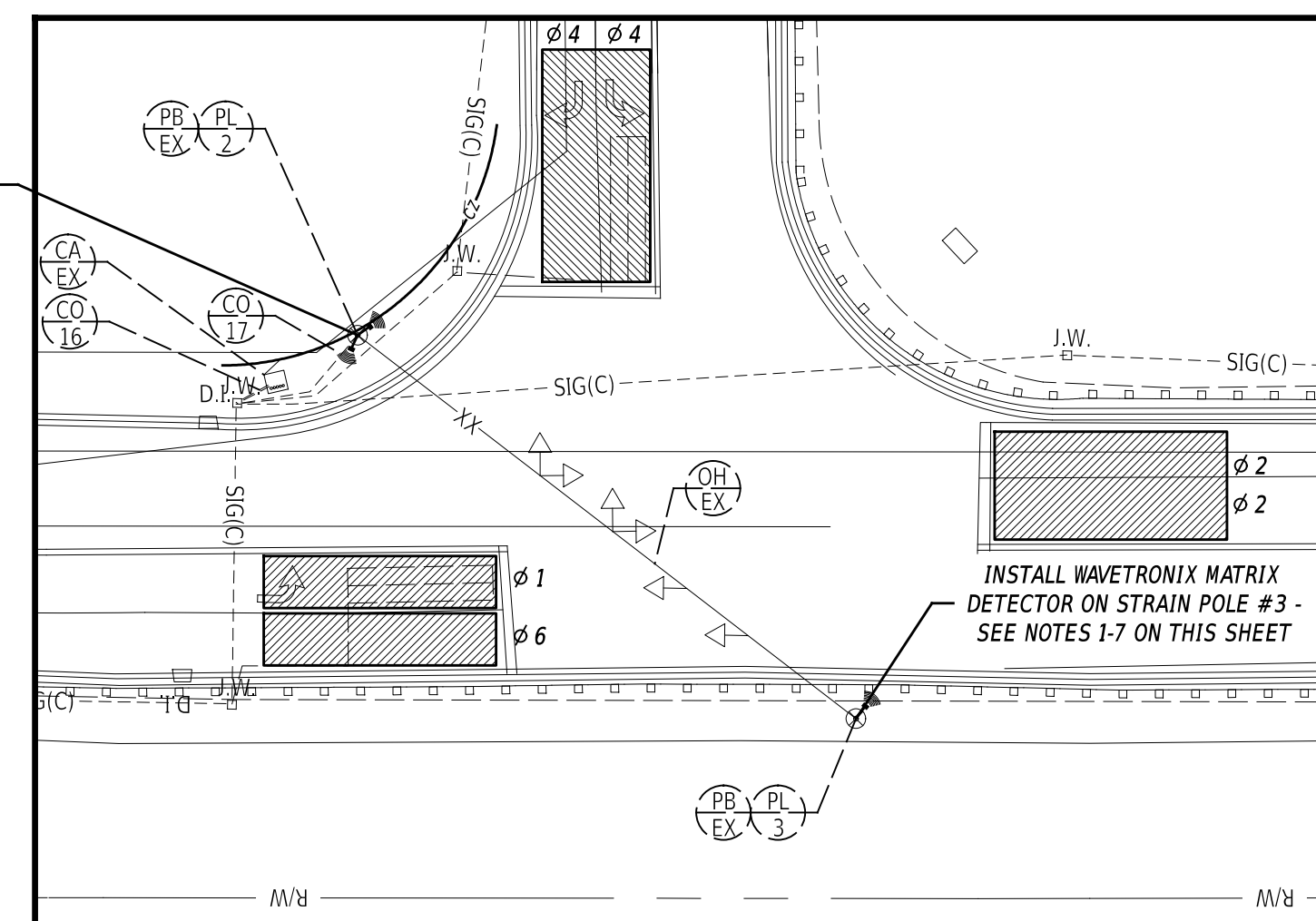
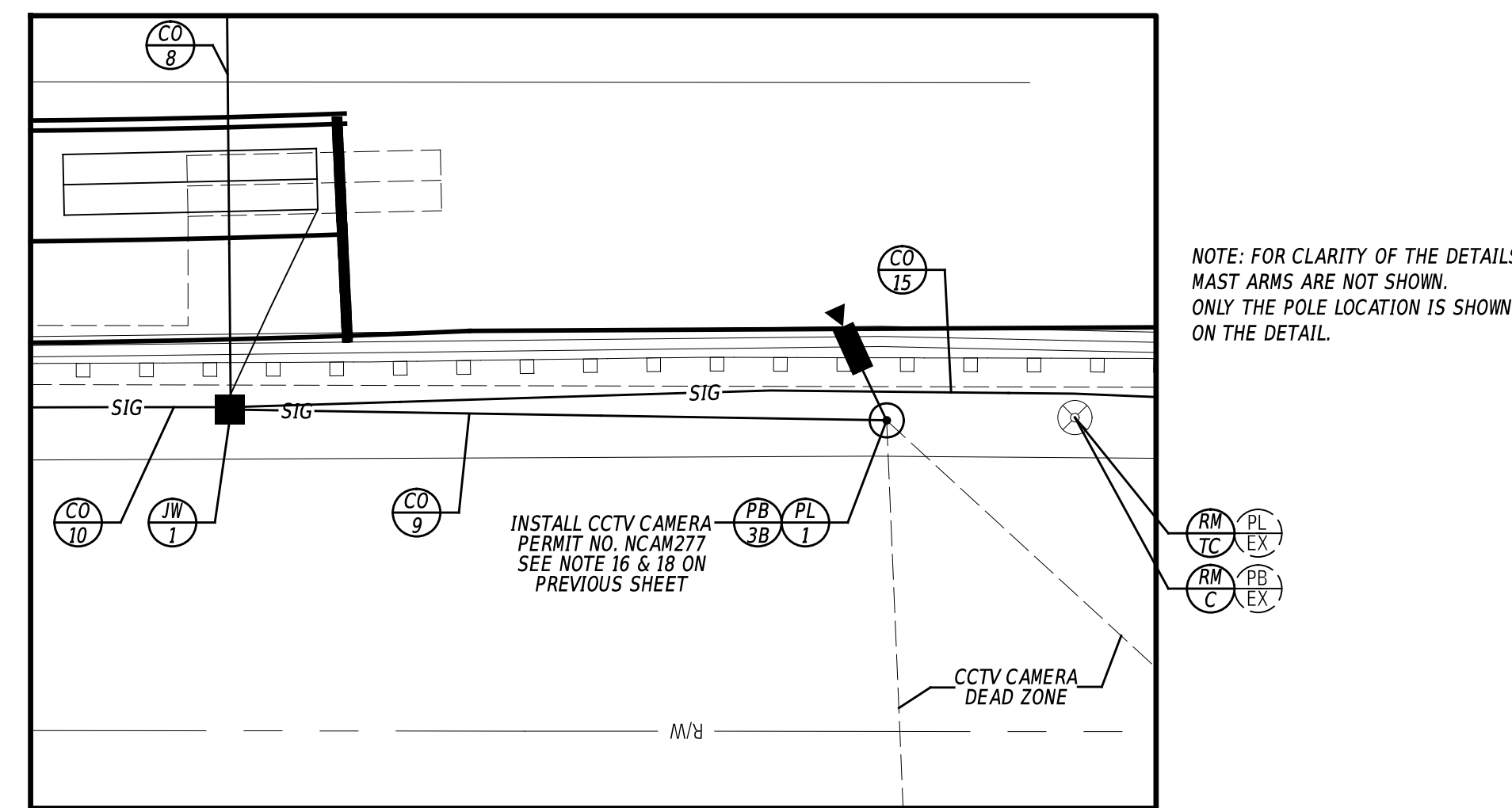
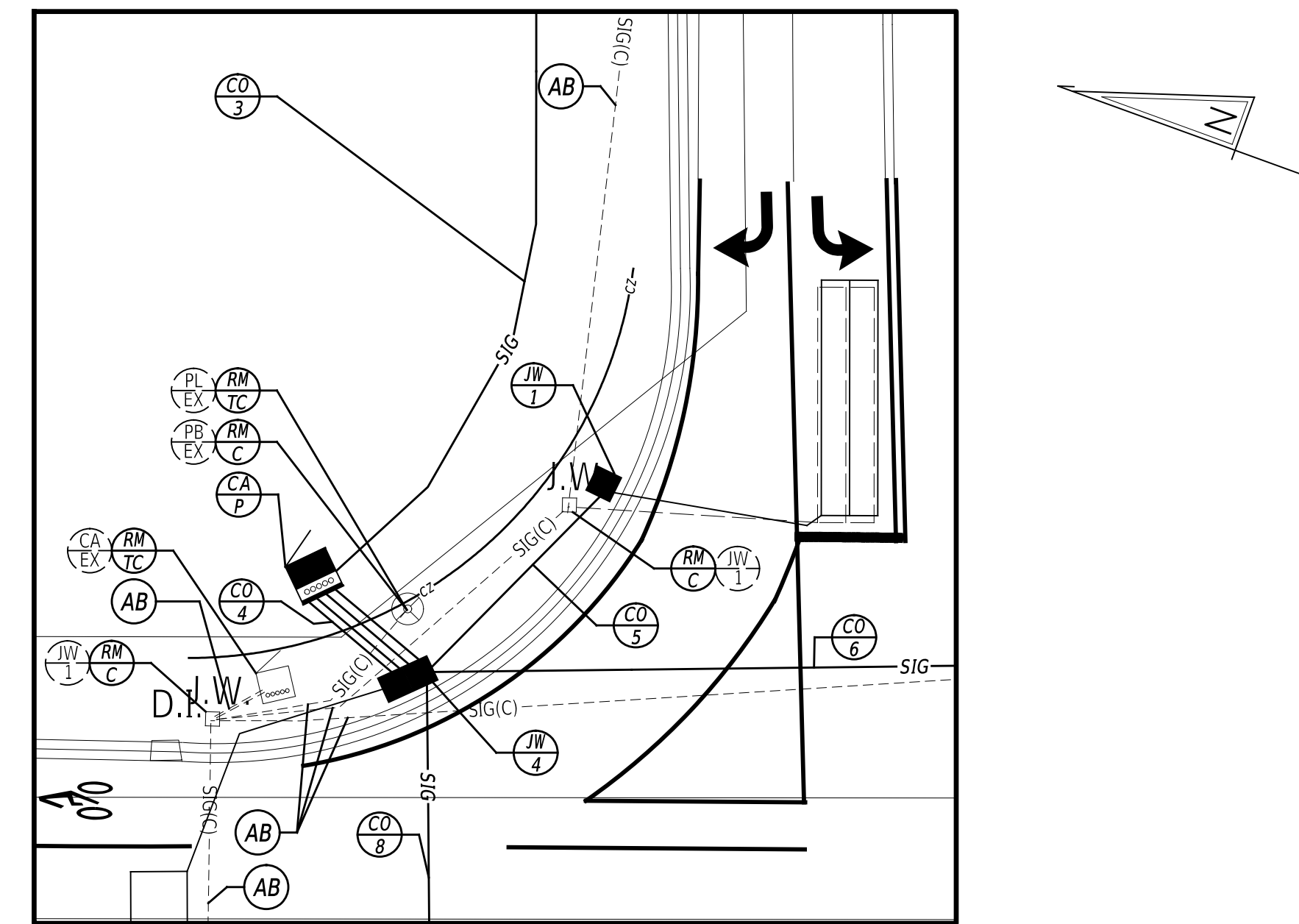
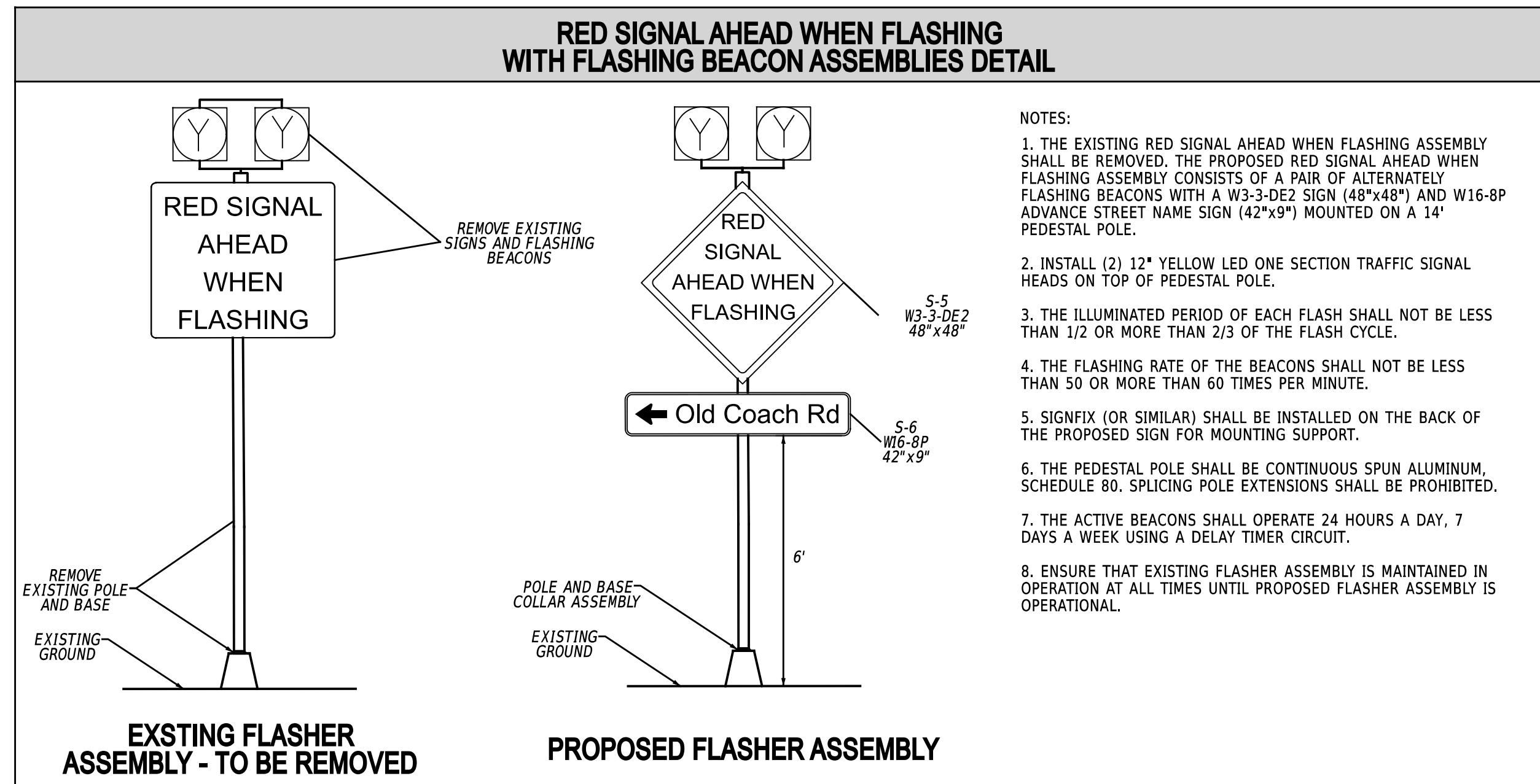
 Mr. A. Wahed
 7/16/24
 DATE

CONCURRENCE FOR INSTALLATION

 CHIEF OF TRAFFIC ENGINEERING
 7/16/2024
 DATE

THIS SEAL APPLIES TO ONLY THIS SHEET

LAST REVISED: 9/11/2018
 7-AUG-2024
 11:31
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EXISTING SYMBOL	PROPOSED SYMBOL
(AB)	ABANDON
(CA)	EXISTING CABINET IDENTIFIER (TYPE OF CABINET)
(CA)	PROPOSED CABINET IDENTIFIER (TYPE OF CABINET)
(CO)	EXISTING CONDUIT RUN IDENTIFIER (# OF CONDUIT RUN)
(CO)	PROPOSED CONDUIT RUN IDENTIFIER (# OF CONDUIT RUN)
(JW)	EXISTING JUNCTION WELL IDENTIFIER (TYPE OF JUNCTION WELL)
(JW)	PROPOSED JUNCTION WELL IDENTIFIER (TYPE OF JUNCTION WELL)
(MA)	EXISTING MAST ARM IDENTIFIER (LENGTH OF ARM)
(MA)	PROPOSED MAST ARM IDENTIFIER (LENGTH OF ARM)
(OH)	EXISTING OVERHEAD RUN IDENTIFIER (# OF OVERHEAD RUN)
(OH)	PROPOSED OVERHEAD RUN IDENTIFIER (# OF OVERHEAD RUN)
(PB)	EXISTING POLE BASE IDENTIFIER (TYPE OF POLE BASE)
(PB)	PROPOSED POLE BASE IDENTIFIER (TYPE OF POLE BASE)
(PL)	EXISTING POLE IDENTIFIER (# OF POLE)
(PL)	PROPOSED POLE IDENTIFIER (# OF POLE)
(RM)	REMOVE BY CONTRACTOR
(RM)	REMOVE BY OTHERS
(RM)	REMOVE BY TRAFFIC CONTRACTOR

	EXISTING SYMBOL	PROPOSED SYMBOL
JUNCTION WELL	J.W.	■
LOOP DETECTOR, TYPE 1	□	□
LOOP DETECTOR, TYPE 2	□	□
LUMINAIRE	⬤	⬤
MAST ARM	⬤	⬤
MICROWAVE DETECTION	⬤	⬤
OPTICOM RECEIVER	⬤	⬤
OVERHEAD SIGNING	⬤	⬤
PEDESTRIAN POLE/BASE	⊙	⊙
PEDESTRIAN PUSHBUTTON	⬤	⬤
PEDESTRIAN SIGNAL HEAD	⬤	⬤
RIGHT-OF-WAY	---	R/W
SERVICE PEDESTAL	□	□
SIGNAL CABINET	□	□
SIGNAL HEAD	⬤	⬤
SIGNAL POLE/BASE	⊙	⊙
CCTV CAMERA	⬤	⬤
SPAN WIRE	XX	XX
UTILITY POLE	⊙	⊙
VIDEO DETECTION	⬤	⬤

GENERAL SIGNAL NOTES

- ALL SIGNAL EQUIPMENT REMOVED FROM A PROJECT IS TO BE RETURNED TO DELDOT TRAFFIC - DOVER, DELAWARE.
- ALL UNDERGROUND AND OVERHEAD UTILITIES SHOWN ON THESE PLANS ARE SCHEMATIC ONLY AND MAY NOT BE COMPLETE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING MISS UTILITY, AND/OR THE APPROPRIATE UTILITY PRIOR TO THE BEGINNING OF CONSTRUCTION FOR THE UTILITY MARKOUTS. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN UTILITIES AND THE TRAFFIC SIGNAL WILL OCCUR, THE CONTRACTOR SHALL NOTIFY DELDOT TRAFFIC IMMEDIATELY BEFORE CONSTRUCTION.

PREPARED BY
JMT
Mir A. Wahed
7/16/24
DATE

THIS SEAL APPLIES TO ONLY THIS SHEET

SEAL
MIR A. WAHED
LICENSE
No. 14810
DELAWARE
PROFESSIONAL ENGINEER

CONCURRENCE FOR INSTALLATION

7/16/2024
DATE

CHIEF OF TRAFFIC ENGINEERING

TEMPORARY SIGNAL DETECTION NOTES

- INSTALL WAVETRONIX MATRIX DETECTORS PRIOR TO DISCONNECTING EXISTING TRAFFIC LOOPS. INSTALL AND MAINTAIN WAVETRONIX MATRIX DETECTORS THROUGHOUT CONSTRUCTION, UNTIL PROPOSED LOOP DETECTORS ARE OPERATIONAL, AND THE PROPOSED SIGNAL EQUIPMENT IS ACTIVATED.
- MOUNT THE WAVETRONIX MATRIX DETECTORS TO STRAIN POLES #2 & #3 AS SHOWN IN THE TEMPORARY DETECTION DETAIL. MOUNT THE DEVICES AT A MANUFACTURER RECOMMENDED HEIGHT OF 15-25 FEET ABOVE THE PAVEMENT GRADE.
- UTILIZE THE SUPPLIED WAVETRONIX MATRIX CABLES TO CONNECT THE DETECTORS TO THE CABINET, USING CONDUITS 16-17, AS WELL AS THE SPAN WIRE, AS SHOWN IN THE TEMPORARY DETECTION DETAIL.
- CLEAR VEGETATION IN THE VICINITY OF STRAIN POLE #3 AS NEEDED TO INSTALL AND PROPERLY OPERATE THE WAVETRONIX MATRIX DETECTORS.
- COORDINATE WITH TMC AT LEAST 10 DAYS PRIOR TO DISCONNECTING TRAFFIC LOOPS AS WELL AS PRIOR TO REACTIVATING THE TRAFFIC LOOPS.
- ONCE THE PROPOSED LOOP DETECTORS AND SIGNAL ARE OPERATIONAL, RELOCATE THE WAVETRONIX MATRIX DETECTORS TO THE MAST ARMS AS SHOWN ON THE ULTIMATE SIGNAL PLAN. ENSURE THAT THE DETECTORS OPERATE PROPERLY. ADJUST DETECTION ZONES TO MATCH THE PERMANENT STRIPING CONDITION AS NEEDED. DEACTIVATE THE WAVETRONIX SYSTEM IN THE CONTROLLER CABINET IN THE PERMANENT CONDITION. THE SYSTEM WILL REMAIN IN PLACE FOR FUTURE USE.
- FIELD SURVEY TO BE PERFORMED BY THE WAVETRONIX REP. CONTACT DON HENRY AT 302-390-1523 AT LEAST TWO WEEKS IN ADVANCE OF ANY WORK INVOLVING WAVETRONIX DEVICES.

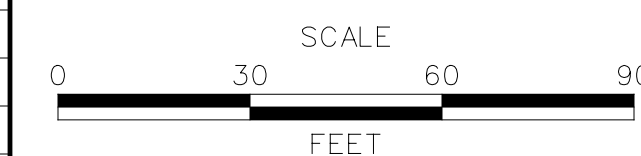
CONDUIT RUN SCHEDULE

CO NO.	NO. OF CONDUITS	SIZE/TYPE	LENGTH	INSTALL METHOD	AMOUNT AND TYPE OF CABLE / WIRE
*16	2	EXISTING	15'	EXISTING	EXISTING [SIGNAL CABLES], INSTALL [(3) WAVETRONIX MATRIX CABLES]
*17	1	EXISTING	30'	EXISTING	EXISTING [SIGNAL CABLES], INSTALL [(3) WAVETRONIX MATRIX CABLES]

ADDITIONAL LEGEND

- MINIMUM DETECTION ZONE
- WAVETRONIX MATRIX DETECTION

ADDENDA / REVISIONS

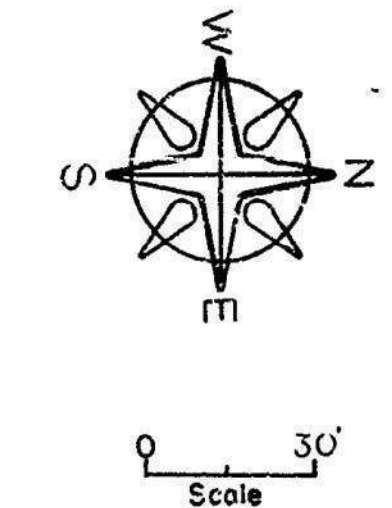


PAVEMENT & REHABILITATION NORTH I, 2024 POLLY DRUMMOND HILL ROAD

CONTRACT	17202406101.02
PERMIT NO.	N258, NCAM277
DESIGNED BY:	S. BUNITSKY/J. SMITH
COUNTY	NEW CASTLE
CHECKED BY:	M. WAHED

**SIGNAL PLAN
POLLY DRUMMOND HILL ROAD @
OLD COACH ROAD**

SECTION	JMT
SHEET NO.	95



CONDUIT RUN SCHEDULE					
CO NO.	NO. OF CONDUITS	SIZE/TYPE	LENGTH	INSTALL METHOD	AMOUNT AND TYPE OF CABLE / WIRE
3	2	2.5"-EX.	10'	EXISTING	REMOVE[(2)16/#14], INSTALL[(2)16/#14, (2)1/#6 GRD], EXISTING[(6) 4/#19]
8	1	2.5"-EX.	100'	EXISTING	REMOVE[(2)16/#14], INSTALL[(2)16/#14, (1)1/#6 GRD], EXISTING[(3) 4/#19]
14	1	2.5"-EX.	35'	EXISTING	REMOVE[(2)16/#14], INSTALL[(2)16/#14, (1)1/#6 GRD]

TYPES: HDPE, PVC, RGS
 INSTALL METHODS: B=BORE, IB=IN BARRIER, OC=OPEN CUT, OS=ON STRUCTURE, T=TRENCH
 *SEE CONDUIT IN BOTTOM LEFT CORNER OF SHEET FOR INFORMATION ON OTHER CONDUITS. CONDUIT 14 IS EXISTING PER SITE VISIT BUT NOT REPRESENTED ON AS-BUILT PLAN.

DELAWARE DIVISION OF HIGHWAYS
 BUREAU OF TRAFFIC

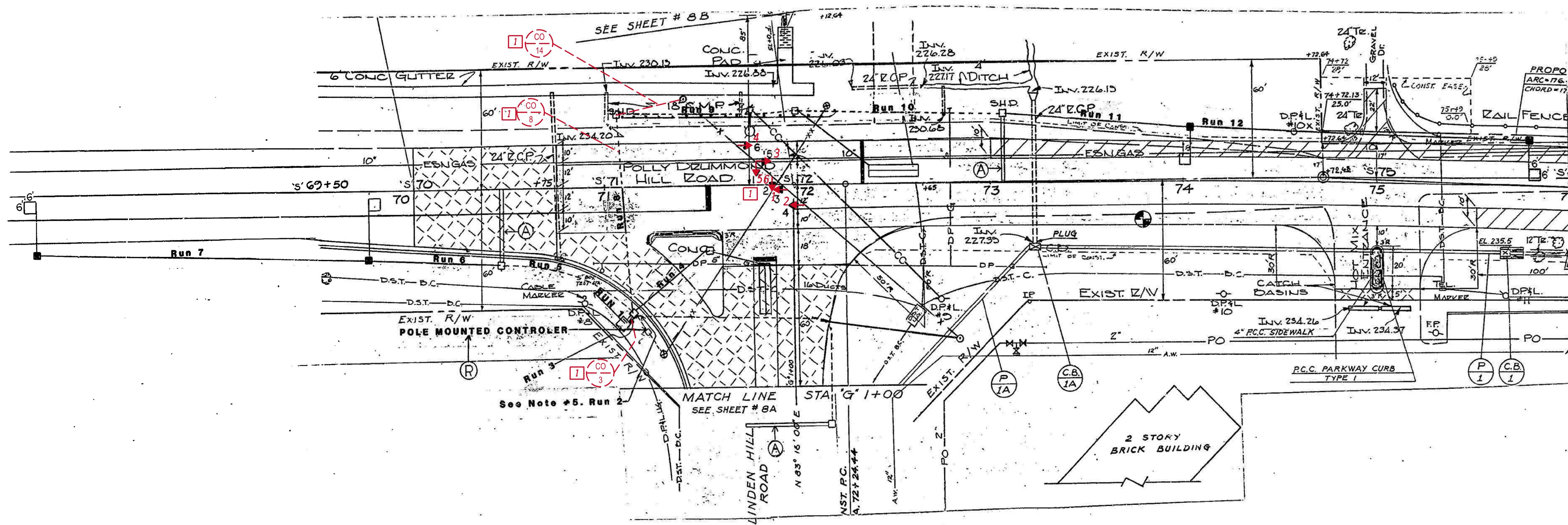
DOVER DELAWARE

PERMIT NO. N-250 CONTRACT NO. 1202106001 FED. AID NO. SHEET NO. TOTAL

SIGNAL PLAN
 POLLY DRUMMOND HILL RD. & LINDEN HILL RD.

PREL. TRACNG DATE 9-23-86 DESIGN DATE

REVISION
 1 REPLACE SIGNAL HEADS AND SIGNAL HEAD CABLES - J. SMITH



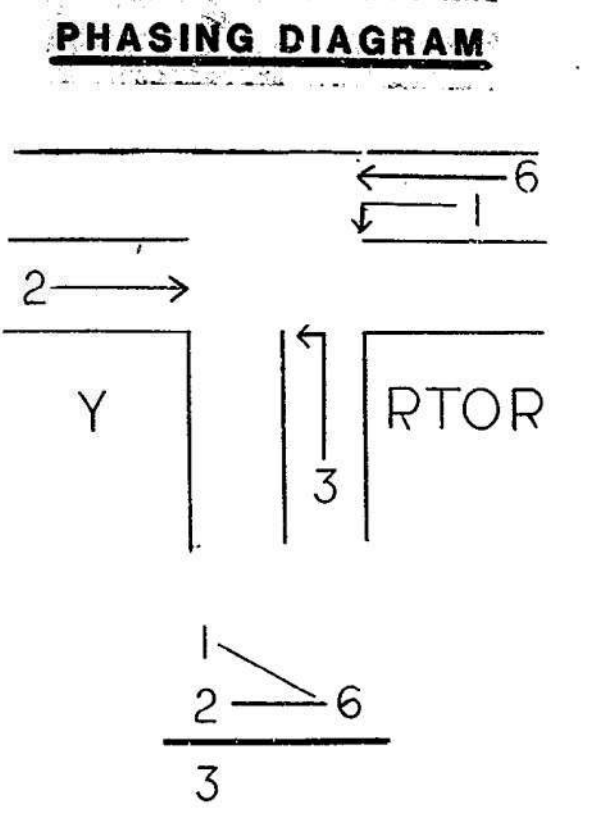
LEGEND

- POLE BASE TYPE (#1-6)
- ⊙ EXISTING STEEL POLE BASE
- ⊠ EXISTING ALUMINUM POLE BASE
- ⊞ PEDESTAL BASE
- ⊚ EXISTING PEDESTAL BASE
- WOOD POLE
- EXISTING WOOD POLES
- ⊙ EXISTING DP&L AND D&ST POLES
- ⊠ CABINET BASE
- ⊞ EXISTING CABINET BASE
- RIGHT-OF-WAY OR PROPERTY LINE
- GALVANIZED CONDUIT
- EXISTING GALV. CONDUIT
- NON-METALLIC CONDUIT
- EXISTING NON-METALLIC CONDUIT
- LP #
- LOOP DETECTOR TYPE (#1-7)
- EXISTING LOOP DETECTOR
- JUNCTION WELL TYPE (#1-4)
- EXISTING JUNCTION WELL
- SPAN WIRE
- EXISTING SPAN WIRE
- OVERHEAD CABLE
- EXISTING OVERHEAD CABLE
- SIGNAL HEAD
- EXISTING SIGNAL HEAD
- PEDESTRIAN SIGNAL HEAD
- EXISTING PED. SIGNAL HEAD
- MAST ARM
- REMOVE
- ABANDON
- REMOVE EXISTING CONCRETE BASE
- 6" BELOW GROUND LEVEL AND COVER.
- LUMINAIRE (WATTAGE)
- EXISTING LUMINAIRE (WATTAGE)
- A 1 1/2" GALVANIZED CONDUIT
- B 2" GALVANIZED CONDUIT
- C 2 1/2" GALVANIZED CONDUIT
- D 3" NON-METALLIC CONDUIT
- E 4" NON-METALLIC CONDUIT
- X EXISTING CONDUIT

CONDUIT RUNS

RUN 1 - A - 100' - (1) 2/#8 UF W/G
2 - C - 80' - (2) 16/#14
3 - (2)C - 10' - (6) 4/#19
4 - X - 50' - (1) 4/#19
5 - X - 75' - (2) 4/#19
6 - A - 70' - (2) 4/#19
7 - A - 175' - (1) 4/#19
8 - X - 100' - (3) 4/#19
9 - X - 95' - (3) 4/#19
10 - X - 110' - (2) 4/#19
11 - A - 87' - (2) 4/#19
12 - A - 175' - (1) 4/#19
13 - X - 160' - (0)
14
15

- NOTES
- Detection - 50 MPH - Dilemma Zone - 171' and 351' From Stop Bar.
 - All Loop Detectors Type #3, 6'x25', Except As Shown.
 - All Pole Bases Type #3.
 - All Junction Wells Type #1.
 - Sweep Existing Conduit into Control Cabinet.



ADDITIONAL NOTES:
 1 REPLACE EXISTING SIGNAL HEADS AND SIGNAL HEAD CABLES AS SHOWN ON PLAN.

FUNDS DERIVED FROM SENATE BILL NO. 560, \$32,000.

PREPARED BY
 JMT

Mir A. Wahed
 7/16/24
 DATE

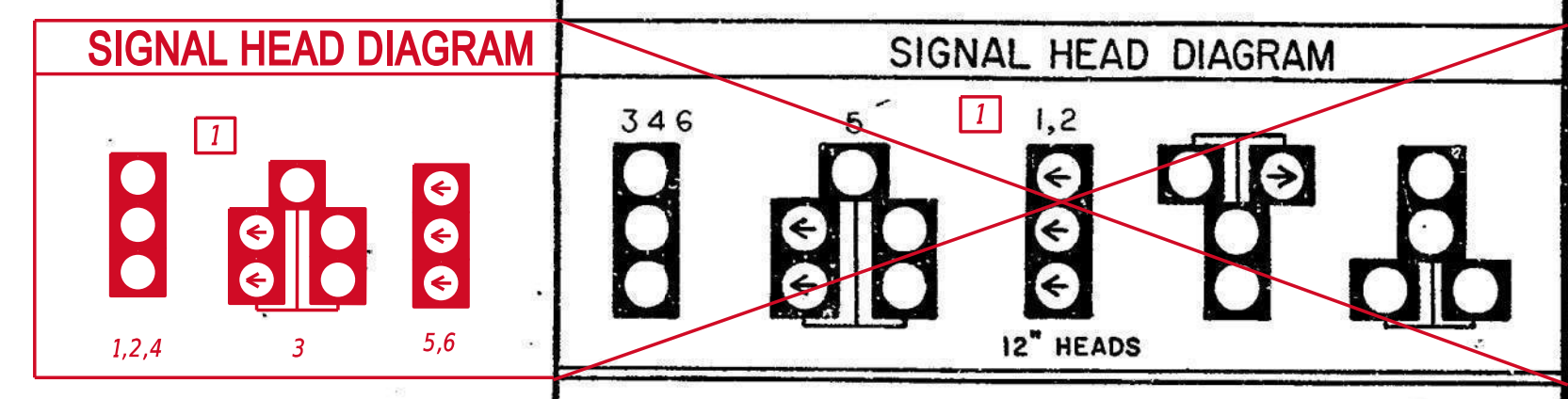
MIR A. WAHED
 LICENSE
 No. 14810
 DELAWARE
 PROFESSIONAL ENGINEER

SEAL

CONCURRENCE FOR INSTALLATION

7/16/2024
 DATE

CHIEF OF TRAFFIC ENGINEERING



RECOMMENDED Sept 23, 1986 *Daniel Dell*

RECOMMENDED Sept 24, 1986 *J. R. Lerner*

RECOMMENDED 19

SECTION

JMT

SHEET NO.

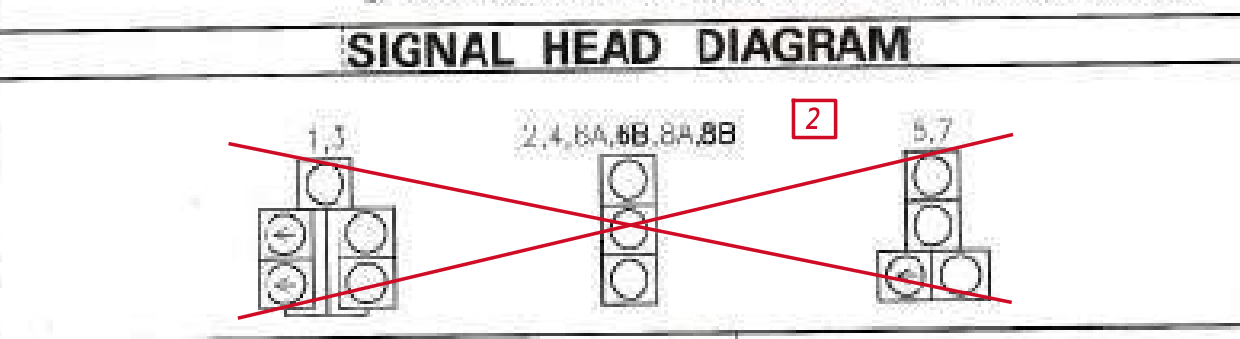
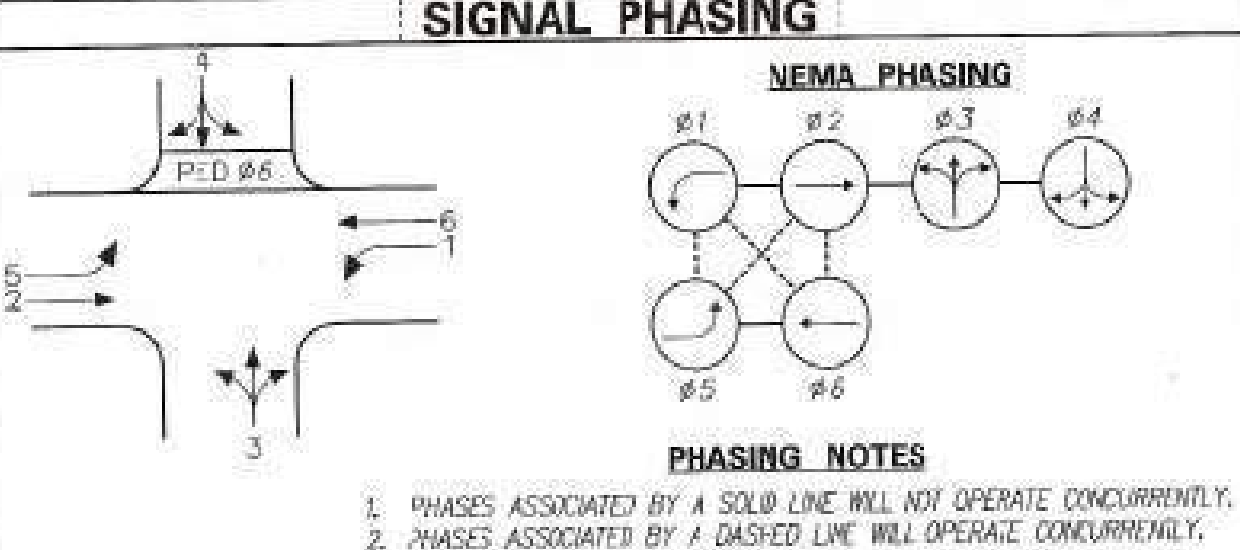
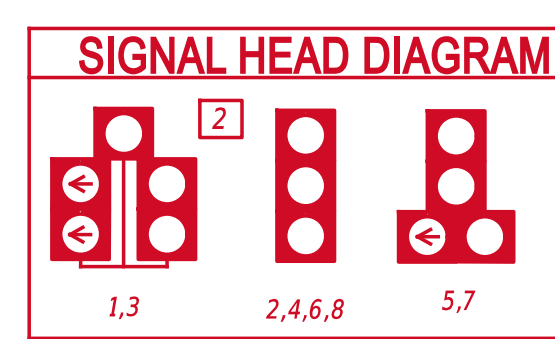
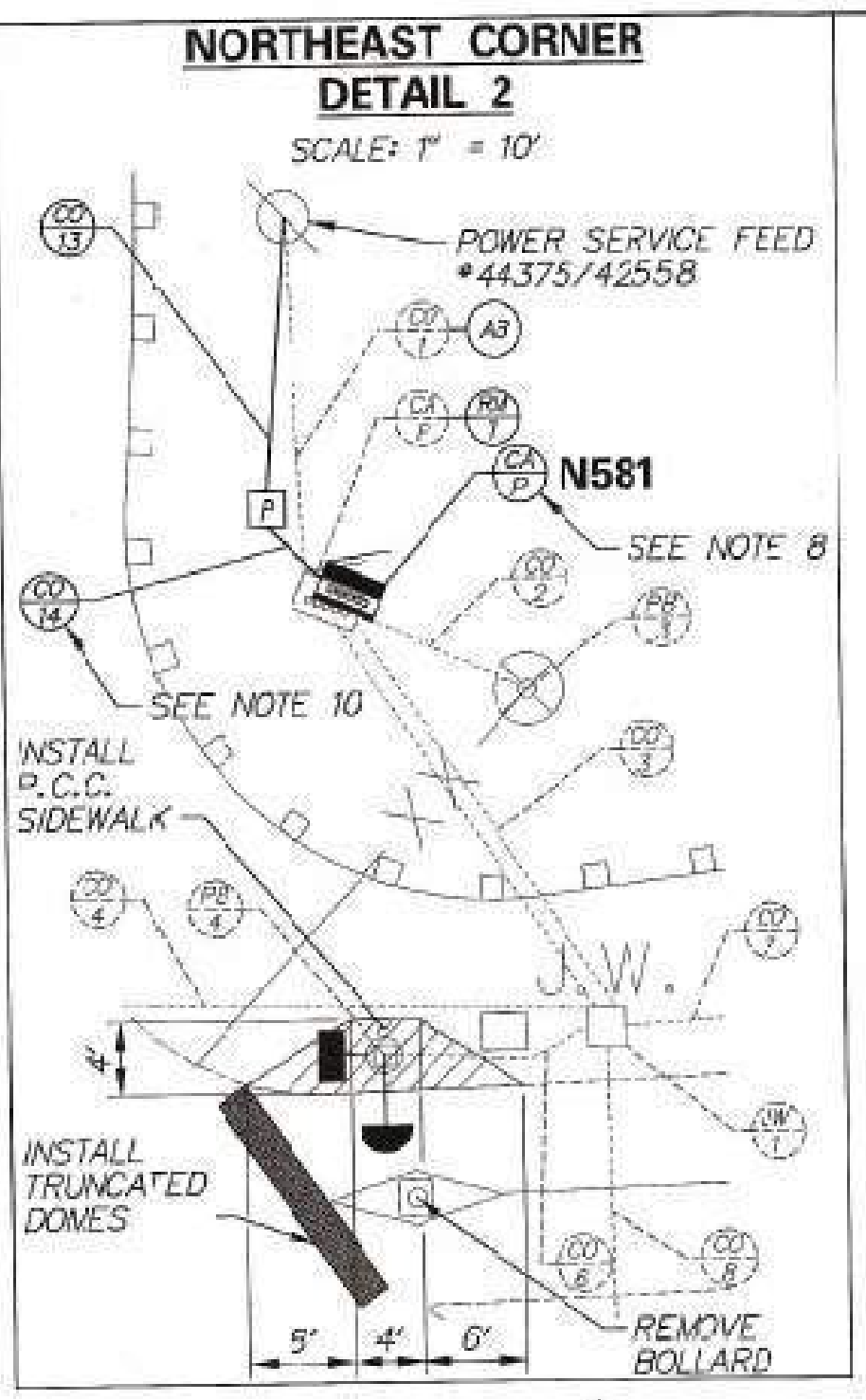
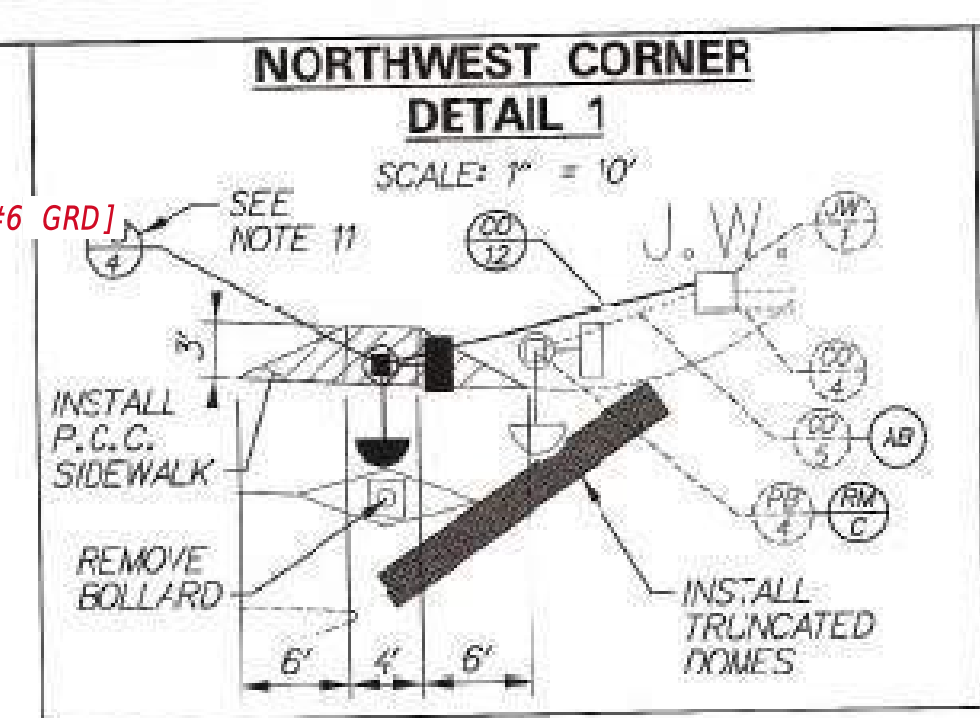
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APPROVED F.H.W.A. DATE

APPROVED for INSTL. DATE
 CHIEF TRAFFIC ENGINEER

CO#	# OF CONDUITS	SIZE	LENGTH	B/T/O	AMOUNT AND TYPE OF CABLE/WIRE
1*	1	1.5 IN	20 FT	-	<REMOVE EX. (1) 2/*8 U.F. W/GROUND>
2*	1	2.5 IN	9 FT	-	<REMOVE TO REMAIN - EX. (2) 16/*14, EX. (4) 4/*18 NEW (2) 16/*14, (4) 4/*18, (1) 1/*6 GRD.>
3*	2	2.5 IN	25 FT	-	(NEW (1) #6 GROUND), <REMOVE EX. (1) 9/*14, TO REMAIN - EX. (1) 9/*14, EX. (6) 4/*18>
4*	1	2.5 IN	65 FT	-	(NEW (1) 5/*14, (1) #6 GROUND), <REMOVE EX. (1) 9/*14, TO REMAIN - EX. (1) 9/*14, EX. (6) 4/*18>
5*	1	2.5 IN	9 FT	-	<REMOVE EX. (1) 9/*14>
6*	1	2.5 IN	12 FT	-	TO REMAIN - EX. (1) 9/*14
7*	1	2.5 IN	230 FT	-	TO REMAIN - EX. (1) 4/*18
8*	1	2.5 IN	76 FT	-	TO REMAIN - EX. (4) 4/*18
9*	1	2.5 IN	46 FT	-	TO REMAIN - EX. (3) 4/*18
10*	1	1.5 IN	62 FT	-	TO REMAIN - EX. (2) 4/*18
11*	1	1.5 IN	260 FT	-	TO REMAIN - EX. (1) 4/*18
12*	1	2.5 IN	18 FT	T	(NEW (1) 5/*14, (1) #6 GROUND)
13**	T	2.0 IN	15 FT	T	(NEW (1) 2/*8 U.F. W/GROUND - LINE SIDE)
14**	T	2.0 IN	4 FT	T	(NEW (1) 2/*8 U.F. W/GROUND - LOAD SIDE)

* DENOTES EXISTING CONDUIT
 ** GALVANIZED STEEL CONDUIT (PROPOSED)
 B = BORE, T = TRENCH, O = OPEN CUT

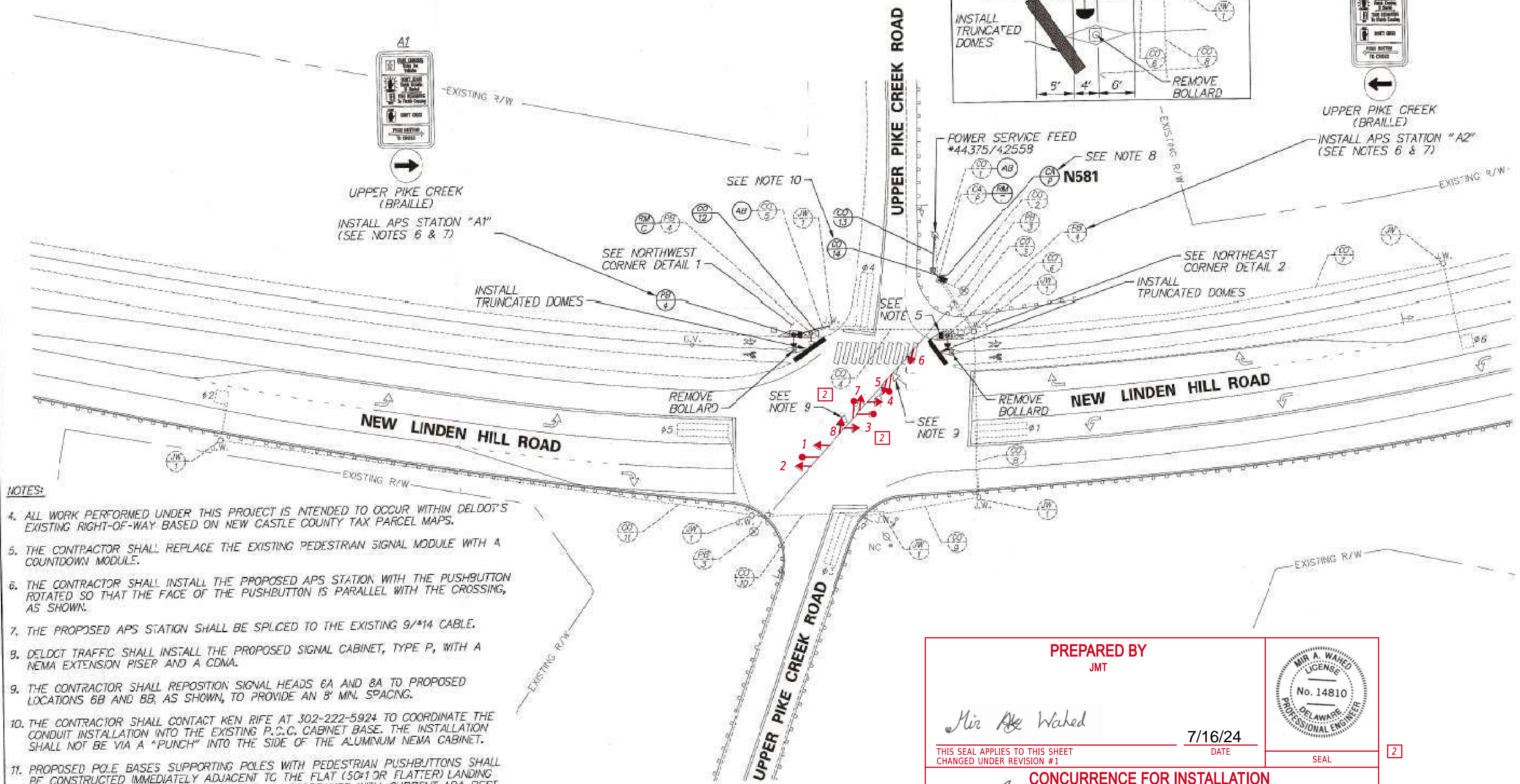


LEGEND			
(AB)	ABANDON	(Ø1)	EXISTING OVERHEAD RUN IDENTIFIER (# OF OVERHEAD RUN)
(CA)	EXISTING CABINET IDENTIFIER (TYPE OF CABINET)	(Ø2)	PROPOSED OVERHEAD RUN IDENTIFIER (# OF OVERHEAD RUN)
(CA')	PROPOSED CABINET IDENTIFIER (TYPE OF CABINET)	(Ø3)	EXISTING POLE BASE IDENTIFIER (TYPE OF POLE BASE)
(CO)	EXISTING CONDUIT RUN IDENTIFIER (# OF CONDUIT RUN)	(Ø4)	PROPOSED POLE BASE IDENTIFIER (TYPE OF POLE BASE)
(CO')	PROPOSED CONDUIT RUN IDENTIFIER (# OF CONDUIT RUN)	(Ø5)	EXISTING POLE IDENTIFIER (# OF POLE)
(JW)	EXISTING JUNCTION WELL IDENTIFIER (TYPE OF JUNCTION WELL)	(Ø6)	PROPOSED POLE IDENTIFIER (# OF POLE)
(JW')	PROPOSED JUNCTION WELL IDENTIFIER (TYPE OF JUNCTION WELL)	(RM)	REMOVE BY CONTRACTOR
(MA)	EXISTING MAST ARM IDENTIFIER (LENGTH OF ARM)	(RM')	REMOVE BY TRAFFIC
(MA')	PROPOSED MAST ARM IDENTIFIER (LENGTH OF ARM)	(RM'')	REMOVE BY TRAFFIC CONTRACTOR

	EXISTING SYMBOL	PROPOSED SYMBOL
JUNCTION WELL	J.W.	■
LOOP DETECTOR, TYPE 1	□	□
LOOP DETECTOR, TYPE 2	□	□
LUMINAIRE	◇	◇
MAST ARM	→	→
MICROWAVE DETECTOR	◇	◇
OPTICOM RECEIVER	◇	◇
OVERHEAD SIGNING	+	+
PEDESTRIAN POLE/BASE	○	○
PEDESTRIAN PUSHBUTTON	→	→
PEDESTRIAN SIGNAL HEAD	→	→
RIGHT-OF-WAY	---	---
SERVICE PEDESTAL	□	□
SIGNAL CABINET	□	□
SIGNAL HEAD	→	→
SIGNAL POLE/BASE	○	○
SPAN INSULATOR	◇	◇
SPAN WIRE	—XX—	—XX—
UTILITY POLE	◇	◇
VIDEO DETECTION	◇	◇

GENERAL SIGNAL NOTES

- EXISTING LOOP DETECTORS (TO REMAIN):
 TYPE #1 - 6' x 6' - NORTHBOUND AND SOUTHBOUND NEW LINDEN HILL ROAD THROUGH LANES
 TYPE #2 - 6' x 25' - NORTHBOUND AND SOUTHBOUND NEW LINDEN HILL ROAD LEFT-TURN LANES
 TYPE #3 - 6' x 25' - EASTBOUND AND WESTBOUND UPPER PIKE CREEK ROAD LEFT-TURN/THROUGH/RIGHT-TURN LANES
- ALL GALVANIZED CONDUIT (GRC) SHALL BE BEAMED AND THREADED. ALL GRC SHALL BE THREADED TOGETHER WITH APPROVED COUPLINGS, SET SCREW, BOLTED, AND COMPRESSION FITTING ARE NOT ACCEPTABLE.
- ALL UNDERGROUND AND OVERHEAD UTILITIES SHOWN ON THESE PLANS ARE SCHEMATIC ONLY AND MAY NOT BE COMPLETE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING M&S UTILITY, AND/OR THE APPROPRIATE UTILITY PRIOR TO THE BEGINNING OF CONSTRUCTION FOR THE UTILITY MARKOUTS. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN UTILITIES AND THE TRAFFIC SIGNAL WILL OCCUR, THE CONTRACTOR SHALL NOTIFY DELDOT TRAFFIC IMMEDIATELY BEFORE CONSTRUCTION.



- NOTES:**
- ALL WORK PERFORMED UNDER THIS PROJECT IS INTENDED TO OCCUR WITHIN DELDOT'S EXISTING RIGHT-OF-WAY BASED ON NEW CASTLE COUNTY TAX PARCEL MAPS.
 - THE CONTRACTOR SHALL REPLACE THE EXISTING PEDESTRIAN SIGNAL MODULE WITH A COUNTDOWN MODULE.
 - THE CONTRACTOR SHALL INSTALL THE PROPOSED APS STATION WITH THE PUSHBUTTON ROTATED SO THAT THE FACE OF THE PUSHBUTTON IS PARALLEL WITH THE CROSSING, AS SHOWN.
 - THE PROPOSED APS STATION SHALL BE SPLCED TO THE EXISTING 9/*14 CABLE.
 - DELDOT TRAFFIC SHALL INSTALL THE PROPOSED SIGNAL CABINET, TYPE P, WITH A NEMA EXTENSION RISER AND A CDMA.
 - THE CONTRACTOR SHALL REPOSITION SIGNAL HEADS 6A AND 8A TO PROPOSED LOCATIONS 6B AND 8B, AS SHOWN, TO PROVIDE AN 8" MIN. SPACING.
 - THE CONTRACTOR SHALL CONTACT KEN RIFE AT 302-222-5924 TO COORDINATE THE CONDUIT INSTALLATION INTO THE EXISTING P.C.C. CABINET BASE. THE INSTALLATION SHALL NOT BE VIA A "PUNCH" INTO THE SIDE OF THE ALUMINUM NEMA CABINET.
 - PROPOSED POLE BASES SUPPORTING POLES WITH PEDESTRIAN PUSHBUTTONS SHALL BE CONSTRUCTED IMMEDIATELY ADJACENT TO THE FLAT (50" OR FLATTER) LANDING AREA OF THE CURB RAMP OR SIDEWALK IN ACCORDANCE WITH CURRENT ADA BEST PRACTICES. THESE POLE BASES SHALL BE FLUSH WITH THE ADJOINING LANDING AREA. THE PEDESTRIAN PUSHBUTTON SHOULD BE INSTALLED AT A HEIGHT OF 42 TO 48 INCHES ABOVE THE LANDING AREA/SIDEWALK, AND SHALL BE LOCATED SUCH THAT THE MAXIMUM REACH DISTANCE IS 10 INCHES FROM THE LANDING AREA TO THE FACE OF THE PUSHBUTTON. PEDESTRIAN SIGNAL HEADS SHALL BE MOUNTED WITH THE BOTTOM OF THE SIGNAL HOUSING INCLUDING BRACKETS NOT LESS THAN 7 FEET OR MORE THAN 10 FEET ABOVE SIDEWALK LEVEL.

ADDITIONAL NOTES:

- REPLACE EXISTING SIGNAL HEADS, SIGNAL HEAD CABLES, OPTICOMS, AND OPTICOM CABLES AS SHOWN ON PLAN.

PREPARED BY
 JMT

Mir A. Wahed
 7/16/24
 DATE

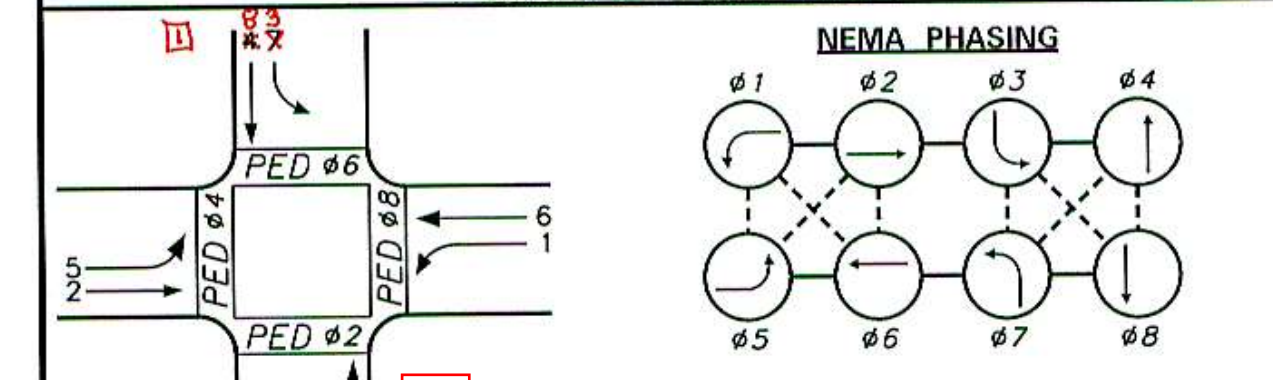
CONCURRENCE FOR INSTALLATION

[Signature]
 7/16/2024
 DATE

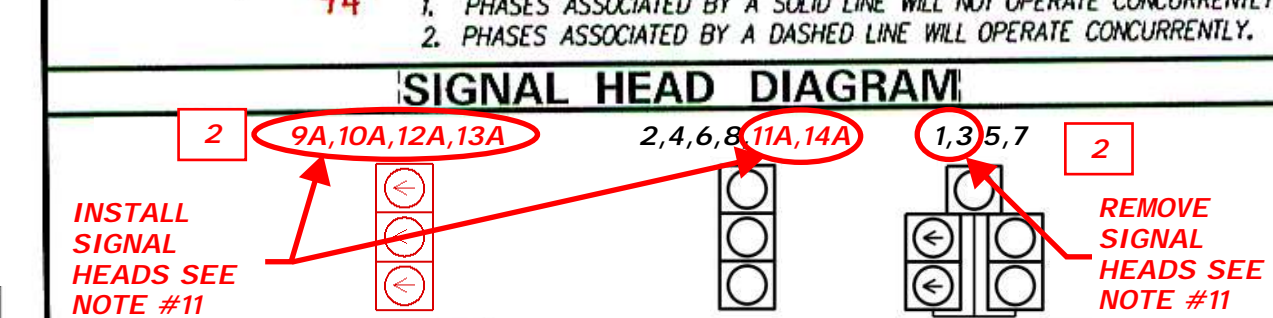
CHIEF OF TRAFFIC ENGINEERING

RECOMMENDED _____ DATE: _____	RECOMMENDED _____ DATE: _____	RECOMMENDED <i>[Signature]</i> DATE: 7/1/16	APPROVED TRAFFIC ENGINEER _____ DATE: _____	APPROVED FOR INSTALLATION CHIEF TRAFFIC ENGINEER <i>[Signature]</i> DATE: 8/1/16
DELAWARE DEPARTMENT OF TRANSPORTATION		ADDENDUM / REVISIONS [1] INSTALL APS, CONVA, COUNTDOWNS, AND SHIFTED SIDE-STREET SIGNAL HEADS (B.M.W. (MRA) 3-18 (CONTRACT T201004003)) [2] REPLACE SIGNAL HEADS AND SIGNAL HEAD CABLES - J. SMITH	SCALE 0 30 60 90 FEET	PAVEMENT & REHABILITATION NORTH I, 2024
CONTRACT [2] T202406103 COUNTY NEW CASTLE CHECKED BY: M.J.L.E. (WRA)	PERMIT NO. N581 DE: T202406101.02, M.L.W. (WRA)	APS SIGNAL PLAN NEW LINDEN HILL ROAD @ UPPER PIKE CREEK ROAD		SHEET NO. 1 TOTAL SHTS. 1

SIGNAL PHASING



SIGNAL HEAD DIAGRAM



LEGEND

PROPOSED SIGNAL CABINET	(RM/C)	REMOVE BY CONTRACTOR
EXISTING SIGNAL CABINET	(RM/TC)	REMOVE BY TRAFFIC CONTRACTOR
PROPOSED SIGNAL POLE BASE	(RM/D)	REMOVE BY OTHERS
EXISTING SIGNAL POLE BASE	(RM/X)	ABANDON
PROPOSED PEDESTRIAN POLE BASE	(PB/X)	PROPOSED POLE BASE IDENTIFIER (TYPE OF POLE BASE)
EXISTING PEDESTRIAN POLE BASE	(PB/X)	EXISTING POLE BASE IDENTIFIER (TYPE OF POLE BASE)
PROPOSED WOOD POLE	(PW/X)	PROPOSED POLE IDENTIFIER (* OF POLE)
EXISTING UTILITY POLE	(PW/X)	EXISTING POLE IDENTIFIER (* OF POLE)
PROPOSED JUNCTION WELL	(JW/X)	PROPOSED JUNCTION WELL IDENTIFIER (TYPE OF JUNCTION WELL)
EXISTING JUNCTION WELL	(JW/X)	EXISTING JUNCTION WELL IDENTIFIER (TYPE OF JUNCTION WELL)
PROPOSED SIGNAL HEAD	(SH/X)	PROPOSED SIGNAL HEAD IDENTIFIER (* OF SIGNAL HEAD)
EXISTING SIGNAL HEAD	(SH/X)	EXISTING SIGNAL HEAD IDENTIFIER (* OF SIGNAL HEAD)
PROPOSED PEDESTRIAN SIGNAL HEAD	(PSH/X)	PROPOSED PEDESTRIAN SIGNAL HEAD IDENTIFIER (* OF PEDESTRIAN SIGNAL HEAD)
EXISTING PEDESTRIAN SIGNAL HEAD	(PSH/X)	EXISTING PEDESTRIAN SIGNAL HEAD IDENTIFIER (* OF PEDESTRIAN SIGNAL HEAD)
PROPOSED PEDESTRIAN PUSHBUTTON	(PPB/X)	PROPOSED PEDESTRIAN PUSHBUTTON IDENTIFIER (* OF PEDESTRIAN PUSHBUTTON)
EXISTING PEDESTRIAN PUSHBUTTON	(PPB/X)	EXISTING PEDESTRIAN PUSHBUTTON IDENTIFIER (* OF PEDESTRIAN PUSHBUTTON)
PROPOSED VIDEO DETECTION	(VD/X)	PROPOSED VIDEO DETECTION IDENTIFIER (* OF VIDEO DETECTION)
EXISTING VIDEO DETECTION	(VD/X)	EXISTING VIDEO DETECTION IDENTIFIER (* OF VIDEO DETECTION)
PROPOSED MICROWAVE DETECTION	(MD/X)	PROPOSED MICROWAVE DETECTION IDENTIFIER (* OF MICROWAVE DETECTION)
EXISTING MICROWAVE DETECTION	(MD/X)	EXISTING MICROWAVE DETECTION IDENTIFIER (* OF MICROWAVE DETECTION)
OVERHEAD SIGNING	(OS/X)	PROPOSED OVERHEAD SIGNING IDENTIFIER (* OF OVERHEAD SIGNING)
PROPOSED OPTICOM RECEIVER	(OR/X)	PROPOSED OPTICOM RECEIVER IDENTIFIER (* OF OPTICOM RECEIVER)
EXISTING OPTICOM RECEIVER	(OR/X)	EXISTING OPTICOM RECEIVER IDENTIFIER (* OF OPTICOM RECEIVER)
PROPOSED MAST ARM	(MA/X)	PROPOSED MAST ARM IDENTIFIER (LENGTH OF ARM)
EXISTING MAST ARM	(MA/X)	EXISTING MAST ARM IDENTIFIER (LENGTH OF ARM)
PROPOSED LUMINAIRE	(L/X)	PROPOSED LUMINAIRE IDENTIFIER (TYPE OF LUMINAIRE)
EXISTING LUMINAIRE	(L/X)	EXISTING LUMINAIRE IDENTIFIER (TYPE OF LUMINAIRE)
PROPOSED LOOP DETECTOR (TYPE 1 OR 2)	(LD1/2)	PROPOSED LOOP DETECTOR IDENTIFIER (* OF LOOP DETECTOR)
EXISTING LOOP DETECTOR (TYPE 1 OR 2)	(LD1/2)	EXISTING LOOP DETECTOR IDENTIFIER (* OF LOOP DETECTOR)
PROPOSED SPAN WIRE	(SW)	PROPOSED SPAN WIRE
EXISTING SPAN WIRE	(SW)	EXISTING SPAN WIRE
RIGHT-OF-WAY OR PROPERTY LINE	(R/W)	RIGHT-OF-WAY OR PROPERTY LINE
PROPOSED SPAN INSULATOR	(SI)	PROPOSED SPAN INSULATOR
EXISTING SPAN INSULATOR	(SI)	EXISTING SPAN INSULATOR
SERVICE PEDESTAL	(SP)	SERVICE PEDESTAL

GENERAL SIGNAL NOTES

- ALL SIGNAL EQUIPMENT REMOVED FROM A PROJECT IS TO BE RETURNED TO DELDOT TRAFFIC - DOVER, DELAWARE.
- POLE BASES, CABINET BASE AND/OR CONDUIT JUNCTION WELLS SHALL BE REMOVED AS SHOWN ON THE PLAN. REMOVAL WORK SHOULD BE INCIDENTAL TO STANDARD ITEM 21000-REMOVAL OF STRUCTURES AND OBSTRUCTIONS. EXISTING CONDUIT IS TO BE ABANDONED.
- ALL GALVANIZED CONDUIT (GRC) SHALL BE REAMED AND THREADED. ALL GRC SHALL BE THREADED TOGETHER WITH APPROVED COUPLINGS, SET SCREW, BOLTED, AND COMPRESSION FITTING ARE NOT ACCEPTABLE.
- ALL UNDERGROUND AND OVERHEAD UTILITIES SHOWN ON THESE PLANS ARE SCHEMATIC ONLY AND MAY NOT BE COMPLETE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING M&S UTILITY, AND/OR THE APPROPRIATE UTILITY PRIOR TO THE BEGINNING OF CONSTRUCTION FOR THE UTILITY MARKOUTS. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN UTILITIES AND THE TRAFFIC SIGNAL WILL OCCUR, THE CONTRACTOR SHALL NOTIFY DELDOT TRAFFIC IMMEDIATELY BEFORE CONSTRUCTION.

CONDUIT RUN SCHEDULE

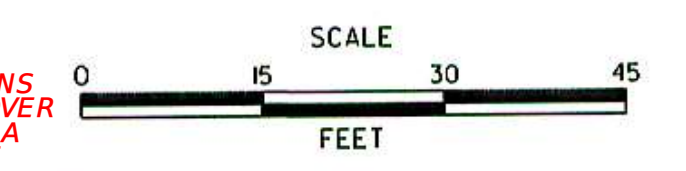
CR#	# OF CONDUITS	SIZE	LENGTH	AMOUNT AND TYPE OF CABLE/WIRE
1	1	2.0"	23'	(1) 2/#8 U.F. W/ GROUND
2	2	2.5"	11'	(2) 16/#14, (4) 9/#4, (10) 4/#18, (NEW) (4) 9/#14, (NEW) (2) 4/#18
3	1	2.5"	16'	(2) 16/#14, (4) 4/#18
4	1	2.5"	43'	(4) 9/#14, (8) 4/#18, (NEW) (4) 9/#14, (NEW) (2) 4/#18 (2) 14S (1) #6 BSCG Remove (2) 16/4 (4) 14/9
5	1	1.5"	43'	(1) 4/#18 (NEW) (1) #6 BSCG
6	1	1.5"	180'	(1) 4/#18 (NEW) (1) #6 BSCG
7	1	2.5"	98'	EMPTY (NEW) (1) 4/#18 (1) 14/2
8	1	2.5"	10'	EMPTY (1) #6 BSCG
9	1	2.5"	111'	(2) 9/#14, (8) 4/#18, (NEW) (2) 9/#14, (NEW) (1) 4/#18 (4) 14S (1) #6 BSCG Remove (2) 16/4 (1) 18/4
10	1	2.5"	86'	(1) 9/#14, (8) 4/#18, (NEW) (1) 9/#14 (2) 14S (1) 14/2 (1) #6 BSCG Remove (2) 16/9 (1) 18/4
11	1	2.5"	345'	(1) 4/#18 (NEW) (1) #6 BSCG
12	1	4.0"	41'	(1) 9/#14, (2) 4/#18, (NEW) (1) 9/#14 (2) 14S (1) #6 BSCG Remove (1) 14/9
13	1	2.5"	9'	(2) 9/#14 (2) 14/5 (1) #6 BSCG
14	1	4.0"	62'	(1) 9/#14, (2) 4/#18, (NEW) (1) 9/#14 (2) 14S (1) #6 BSCG Remove (1) 14/9
15	1	2.5"	10'	(2) 9/#14 (2) 14S (1) #6 BSCG
16	1	2.5"	9'	(2) 9/#14 (2) 14/5 (1) #6 BSCG
17	1	2.5"	20'	(2) 9/#14 (2) 14/5 (1) #6 BSCG
18	1	1.5"	13'	(1) 4/#18 (1) 14/2
19	1	1.5"	27'	(1) 4/#18 (1) 14/2
20	1	1.5"	9'	(1) 4/#18 (2) 14/2
21	1	2.5"	40'	(1) 4/#18 (2) 14/2
22	1	1.5"	6'	(1) 4/#18 (2) 14/2
23	1	2.5"	50'	(1) 4/#18 (2) 14/2

ADDITIONAL SIGNAL NOTES

- DELDOT TRAFFIC SHALL REMOVE ALL THE EXISTING PEDESTRIAN SIGNAL HEADS AND PUSHBUTTONS. DELDOT TRAFFIC SHALL INSTALL NEW COUNTDOWN PEDESTRIAN SIGNAL HEADS AND PUSHBUTTONS AS SHOWN ON THE PLAN. ALL REMOVED EXISTING SIGNAL HEADS AND PUSHBUTTONS SHALL BE RETURNED TO DELDOT TRAFFIC - DOVER, DELAWARE.
- PROPOSED POLE BASES SUPPORTING POLES WITH PEDESTRIAN PUSHBUTTONS SHALL BE CONSTRUCTED IMMEDIATELY ADJACENT TO THE FLAT (50 OR FLATTER) LANDING AREA OF THE CURB RAMP OR SIDEWALK IN ACCORDANCE WITH CURRENT ADA BEST PRACTICES. THESE POLE BASES SHALL BE FLUSH WITH THE ADJACENT LANDING AREA. THE PEDESTRIAN PUSHBUTTON SHALL BE INSTALLED AT A HEIGHT OF 42 TO 48 INCHES ABOVE THE LANDING AREA/SIDEWALK, AND SHALL BE LOCATED SUCH THAT THE MAXIMUM REACH DISTANCE IS 10 INCHES FROM THE LANDING AREA TO THE FACE OF THE PUSH BUTTON. PEDESTRIAN SIGNAL HEADS SHALL BE MOUNTED WITH THE BOTTOM OF THE SIGNAL HOUSING INCLUDING BRACKETS NOT LESS THAN 7 FEET OR MORE THAN 10 FEET ABOVE SIDEWALK LEVEL.
- CONTRACTOR SHALL INSTALL COUNTDOWN PEDESTRIAN SIGNALS AT ALL PEDESTRIAN SIGNAL LOCATIONS.
- COUNT-DOWN PEDESTRIAN PLAQUE (R0-361) SHALL BE INSTALLED AT EACH OF THE PEDESTRIAN PUSHBUTTONS.
- THE PEDESTRIAN PUSHBUTTON SHALL BE INSTALLED PERPENDICULAR TO CROSSWALK PATH.
- THE CONTRACTOR SHALL INSTALL CDMA TO ESTABLISH COMMUNICATION BETWEEN THE SIGNAL AND THE TMC.
- DELDOT TRAFFIC SHALL REMOVE SIGNAL HEADS 1 AND 3, SHIFT SIGNAL HEADS 2 AND 4, AND INSTALL SIGNAL HEADS 9A, 10A, 11A, 12A, 13A, AND 14A, AS SHOWN. PROPOSED SIGNAL HEADS FOR SR 72 LEFT TURNS SHOULD BE INSTALLED WITH A MINIMUM OF 8' LATERAL SPACING WITH THE LEFT SIGNAL HEAD CENTERED OVER THE DOUBLE YELLOW CENTERLINE. THE SR 72 THRU MOVEMENT SIGNAL HEADS SHALL BE INSTALLED WITH A MINIMUM OF 8' LATERAL SPACING WITH THE RIGHT SIGNAL HEAD CENTERED OVER THE RIGHT EDGE LINE OF THE THROUGH LANE.
- DELDOT TRAFFIC/TMC SHALL MODIFY PHASES 1 AND 5 TO PROTECTED-ONLY PHASING, AS SHOWN.
- THE CONTRACTOR SHALL ADJUST THE SPAN WIRE IF NECESSARY TO PROVIDE 5% SAG AND A MINIMUM CLEARANCE OF 17 FEET FROM PAVEMENT GRADE TO THE BOTTOM OF THE LOWEST SIGNAL HEAD HOUSING.

CURB RAMP DETAILS

FIELD ADJUSTMENTS AS REQUIRED



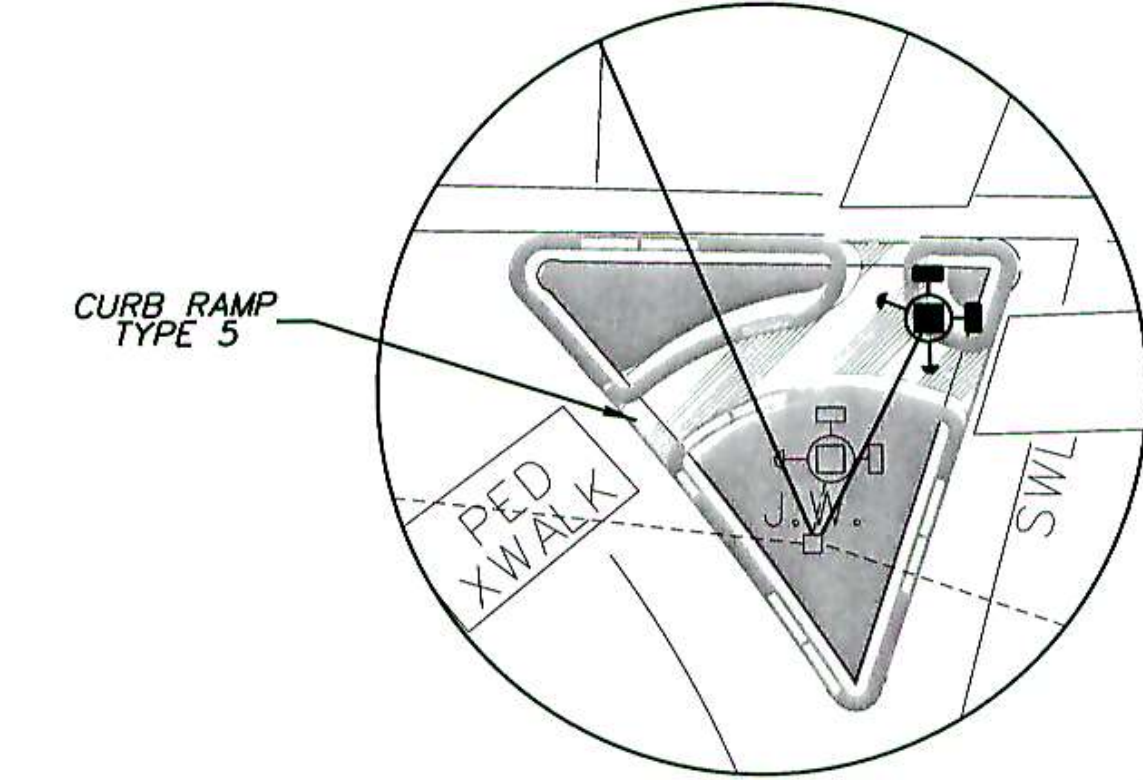
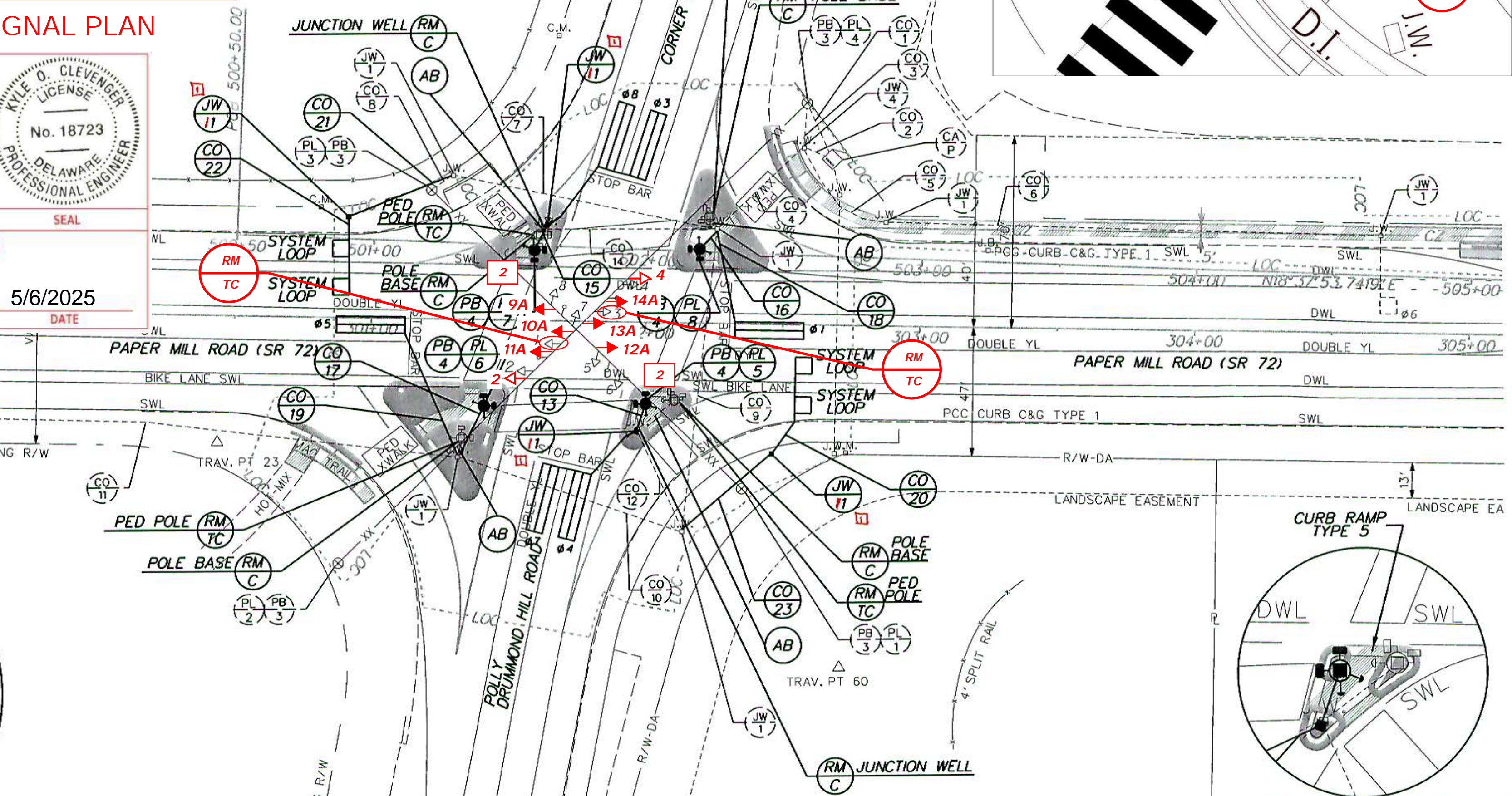
EXISTING CONDUIT

2	1A	1	2.0" RGS	3'	T	(3) #8 THHN - LINE SIDE
	1B	1	2.0" RGS	4'	T	(2) 2/#8 U.F. W/ GROUND - LOAD SIDE

CONTRACT T202406101 - REDLINE SIGNAL PLAN

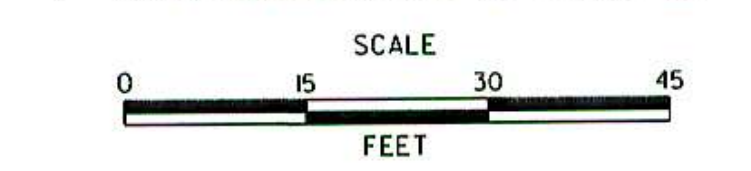
PREPARED BY
 Whitman, Requardt and Associates, LLP
 Engineers - Architects - Environmental Planners Est. 1915
 Kyle Cleary
 5/5/2025
 DATE
 SEAL
 KYLE D. CLEARY
 LICENSE
 No. 18723
 DELAWARE
 PROFESSIONAL ENGINEER

CONCURRENCE FOR INSTALLATION
 DATE
 5/6/2025
 CHIEF OF TRAFFIC ENGINEERING



CURB RAMP DETAILS

FIELD ADJUSTMENTS AS REQUIRED



- THE CONTRACTOR SHALL COORDINATE WITH DELDOT TRAFFIC TO INSTALL NEW BASE EXTENSION AND EPAC CONTROLLER m60 VERSION 3.58f+.
- THE CONTRACTOR SHALL INTERCEPT THE EXISTING POWER FEED CONDUITS AND INSTALL A NEW ELECTRIC SERVICE PEDESTAL PER STANDARD CONSTRUCTION DETAIL T-17, SHEET 3 (2024).
- MAINTENANCE OF TRAFFIC SHALL CONFORM TO THE DE MUTCD. LANE CLOSURES AND LANE SHIFTS BY THE TRAFFIC CONTRACTOR SHALL CONFORM TO TYPICAL APPLICATION 47B. THE ALLOWABLE LANE CLOSURE HOURS AND NOT RESTRICTIONS SHALL FOLLOW THE CONTRACT DOCUMENTS.

RECOMMENDED Andrew Parker DATE: 12/11/22

RECOMMENDED DATE:

RECOMMENDED DATE:

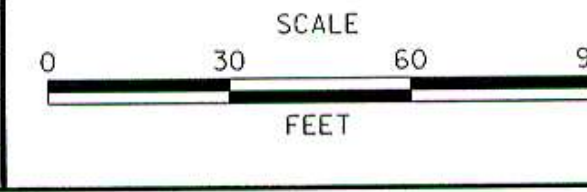
APPROVED TRAFFIC ENGINEER DATE: 12/14/22

APPROVED FOR INSTALLATION CHIEF TRAFFIC ENGINEER DATE: 12/14/22

DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUM / REVISIONS

1	Updated plan to reflect newest Traffic Signal Contract and changed phasing. M6 1/17/23
2	CONVERTED NBL AND SBL TO PROTECTED-ONLY SIGNAL PHASING R. GOFF (WRA) JAN. 2025 (T202406101)

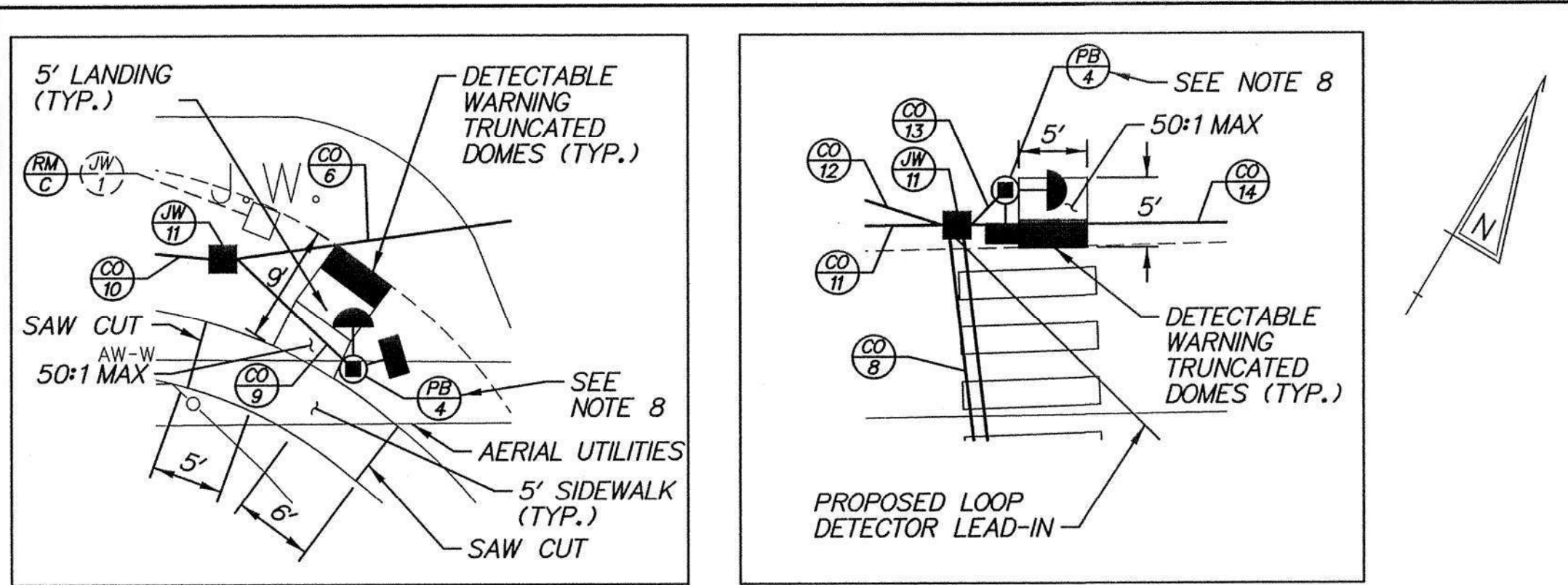


PAPER MILL ROAD SIDEWALK IMPROVEMENTS

CONTRACT	T200920002	PERMIT NO.	N365	SHEET NO.	29
COUNTY	NEW CASTLE COUNTY	DESIGNED BY:	MT	TOTAL SHTS.	34
CHECKED BY:	MAA	SIGNAL PLAN		CORNER KETCH RD @ PAPER MILL RD	

CD#	# OF CONDUITS	SIZE	LENGTH	B/T/O	AMOUNT AND TYPE OF CABLE/ WIRE
1	1	2.0 IN	5 FT	T	[NEW] (1) 2/*8 U.F. W/GROUND - LINE SIDE]
2	1	2.0 IN	80 FT	T	[NEW] (1) 2/*8 U.F. W/GROUND - LOAD SIDE]
3	1	2.0 IN	36 FT	T	[NEW] (1) 2/*8 U.F. W/GROUND - LOAD SIDE]
4	1	3.0 IN	25 FT	T	[NEW] (1) 9/*14, (1) 4/*18, (1) #6 GRD.]
5	2	4.0 IN	37 FT	B/T	[NEW] (5) 9/*14, (2) 4/*18, (5) 2/*14, (2) #6 GRD.]
6	1	4.0 IN	72 FT	B/T	[NEW] (1) 9/*14, (1) 2/*14, (1) #6 GRD.]
7	1	2.5 IN	5 FT	T	[NEW] (1) 9/*14, (1) #6 GRD.]
8	2	4.0 IN	63 FT	B/T	[NEW] (3) 9/*14, (2) 4/*18, (4) 2/*14, (2) #6 GRD.]
9	1	2.5 IN	12 FT	T	[NEW] (1) 9/*14, (1) #6 GRD.]
10	1	4.0 IN	107 FT	T	[NEW] (1) 2/*14, (1) #6 GRD.]
11	1	4.0 IN	111 FT	T	[NEW] (1) 2/*14, (1) #6 GRD.]
12	1	3.0 IN	41 FT	T	[NEW] (2) 9/*14, (2) 4/*18, (1) #6 GRD.]
13	1	2.5 IN	4 FT	T	[NEW] (1) 9/*14, (1) #6 GRD.]
14	1	4.0 IN	238 FT	T	[NEW] (2) 2/*14, (1) #6 GRD.]
15	3	4.0 IN	24 FT	T	[NEW] (5) 9/*14, (2) 4/*18, (6) 2/*14, (3) #6 GRD.]

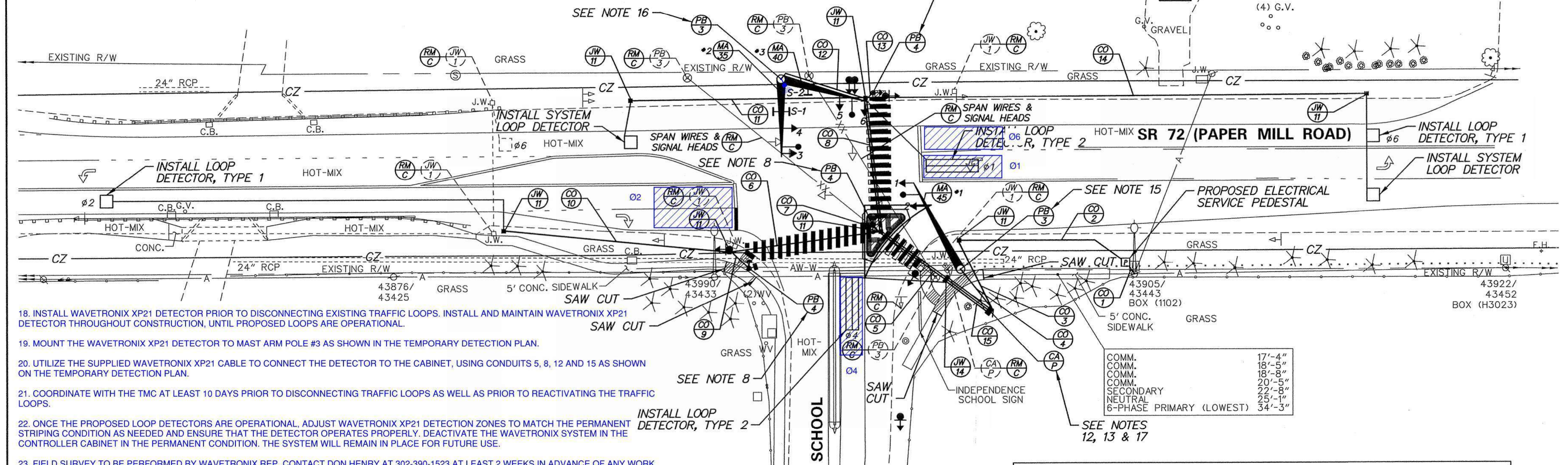
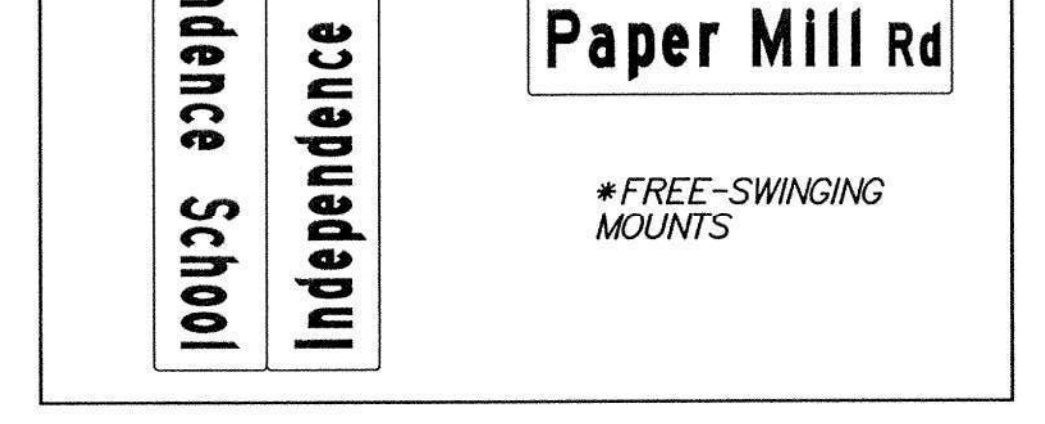
MA#	HEIGHT OF POLE	LENGTH OF ARM	# OF HEADS	# OPTICOM RECEIVERS	SF OF SIGNING	ARM MOUNT HEIGHT
1	21'-6"	45 FT	2	1	-	20'-0"
2	21'-6"	35 FT	2	1	20.0 SF	20'-0"
3	21'-6"	40 FT	2	1	15.0 SF	18'-0"



*ALL EXISTING CONDUIT TO BE ABANDONED IN PLACE
B = BORE, T = TRENCH, O = OPEN CUT

TEMPORARY FOR USE ONLY DURING CONSTRUCTION

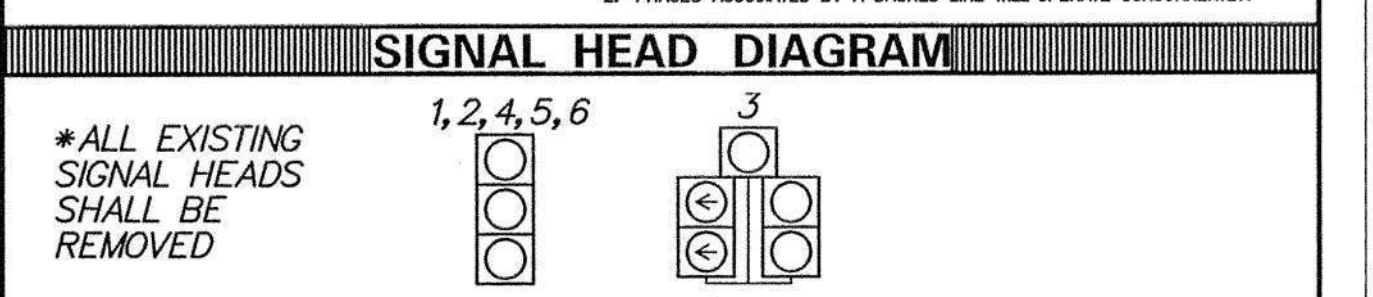
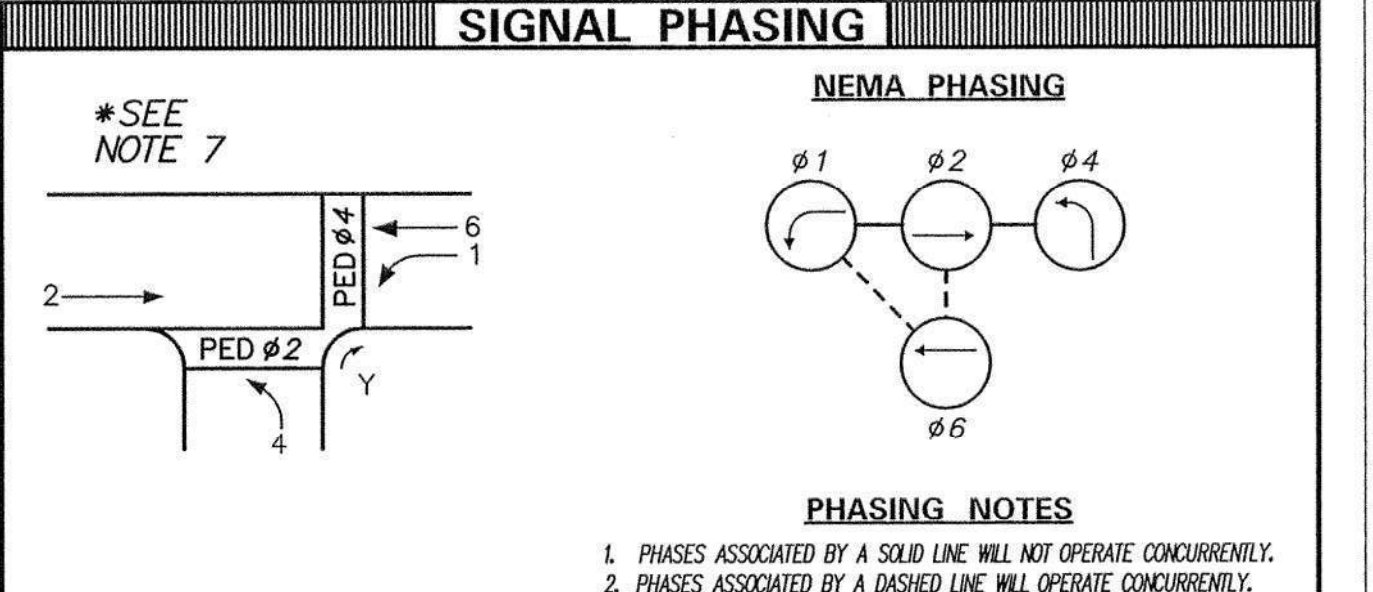
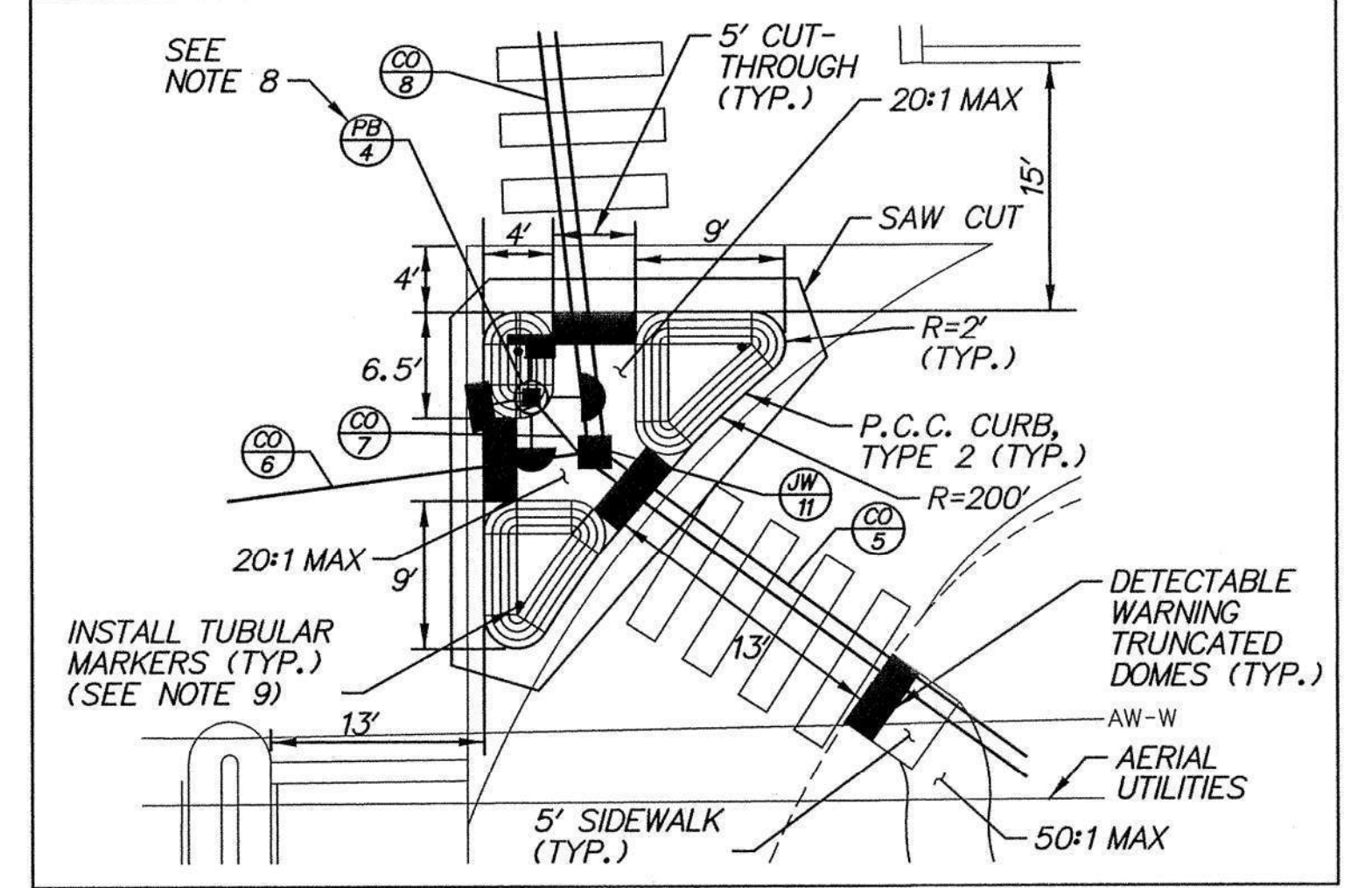
ADDITIONAL LEGEND
 MINIMUM DETECTION ZONE
 XP 21 WAVETRONIX DETECTION



- INSTALL WAVETRONIX XP21 DETECTOR PRIOR TO DISCONNECTING EXISTING TRAFFIC LOOPS. INSTALL AND MAINTAIN WAVETRONIX XP21 DETECTOR THROUGHOUT CONSTRUCTION, UNTIL PROPOSED LOOPS ARE OPERATIONAL.
- MOUNT THE WAVETRONIX XP21 DETECTOR TO MAST ARM POLE #3 AS SHOWN IN THE TEMPORARY DETECTION PLAN.
- UTILIZE THE SUPPLIED WAVETRONIX XP21 CABLE TO CONNECT THE DETECTOR TO THE CABINET, USING CONDUITS 5, 8, 12 AND 15 AS SHOWN ON THE TEMPORARY DETECTION PLAN.
- COORDINATE WITH THE TMC AT LEAST 10 DAYS PRIOR TO DISCONNECTING TRAFFIC LOOPS AS WELL AS PRIOR TO REACTIVATING THE TRAFFIC LOOPS.
- ONCE THE PROPOSED LOOP DETECTORS ARE OPERATIONAL, ADJUST WAVETRONIX XP21 DETECTION ZONES TO MATCH THE PERMANENT STRIPING CONDITION AS NEEDED AND ENSURE THAT THE DETECTOR OPERATES PROPERLY. DEACTIVATE THE WAVETRONIX SYSTEM IN THE CONTROLLER CABINET IN THE PERMANENT CONDITION. THE SYSTEM WILL REMAIN IN PLACE FOR FUTURE USE.
- FIELD SURVEY TO BE PERFORMED BY WAVETRONIX REP. CONTACT DON HENRY AT 302-390-1523 AT LEAST 2 WEEKS IN ADVANCE OF ANY WORK INVOLVING WAVETRONIX DEVICES.

- NOTES:**
- DELDOT TRAFFIC/TMC SHALL MODIFY THE SIGNAL PHASING, AS SHOWN, WITH FULL-TIME STOP-AND-GO OPERATION.
 - PROPOSED POLE BASES SUPPORTING POLES WITH PEDESTRIAN PUSHBUTTONS SHALL BE CONSTRUCTED IMMEDIATELY ADJACENT TO THE FLAT (50:1 FLATTER) LANDING AREA OF THE CURB RAMP OR SIDEWALK IN ACCORDANCE WITH CURRENT ADA BEST PRACTICES. THESE POLE BASES SHALL BE FLUSH WITH THE ADJOINING LANDING AREA. THE PEDESTRIAN PUSHBUTTON SHOULD BE INSTALLED AT A HEIGHT OF 42 TO 48 INCHES ABOVE THE LANDING AREA/SIDEWALK, AND SHALL BE LOCATED SUCH THAT THE MAXIMUM REACH DISTANCE IS 10 INCHES FROM THE LANDING AREA TO THE FACE OF THE PUSHBUTTON. PEDESTRIAN SIGNAL HEADS SHALL BE MOUNTED WITH THE BOTTOM OF THE SIGNAL HOUSING INCLUDING BRACKETS NOT LESS THAN 7 FEET OR MORE THAN 10 FEET ABOVE SIDEWALK LEVEL.
 - DELDOT TRAFFIC SHALL INSTALL A TUBULAR MARKER (FLEXI-POST) ON ALL THREE (3) CORNERS OF THE CHANNELIZED ISLAND, AS SHOWN. EACH MARKER SHALL BE RETROREFLECTORIZED IN ACCORDANCE WITH SECTIONS 31.05 AND 6F.60 OF THE 2011 DE MUTCD.
 - ALL PEDESTRIAN SIGNALS SHALL CONTAIN PEDESTRIAN COUNTDOWN DISPLAYS.
 - THE CONTRACTOR SHALL REMOVE THE EXISTING SIGNAL HEADS, HEAD CABLES, AND SPAN WIRES AND INSTALL THE PROPOSED MAST ARMS, SIGNAL HEADS, OPTICOMS, AND OVERHEAD SIGNS, AS SHOWN.
 - DELDOT TRAFFIC SHALL INSTALL A NEMA CABINET EXTENSION FOR THE PROPOSED SIGNAL CABINET.
 - DELDOT TRAFFIC SHALL COORDINATE THE CDMA INSTALLATION IN THE PROPOSED SIGNAL CABINET.
 - ALL WORK OUTSIDE DELDOT'S RIGHT-OF-WAY SHALL BE PERFORMED IN ACCORDANCE WITH THE TRAFFIC SIGNAL INSTALLATION AND MAINTENANCE AGREEMENT FOR TAX PARCEL NO. 08-030.00-060.
 - THE CONTRACTOR SHALL INSTALL SHEETING AND/OR A POLE BASE EXTENSION FOR THE PROPOSED POLE BASE, TYPE 3, AS DIRECTED BY DELDOT TRAFFIC.

- NOTES:**
- THE CONTRACTOR SHALL INSTALL A 3' POLE BASE EXTENSION TO AVOID CONFLICTS WITH THE EXISTING SPAN WIRES.
 - THE CONTRACTOR SHALL CLEAR AND GRUBB IN ACCORDANCE WITH ITEM 201000.



LEGEND			
	PROPOSED SIGNAL CABINET		REMOVE BY CONTRACTOR
	EXISTING SIGNAL CABINET		REMOVE BY OTHERS
	PROPOSED SIGNAL POLE BASE		ABANDON
	EXISTING SIGNAL POLE BASE		PROPOSED POLE BASE IDENTIFIER (TYPE OF POLE BASE)
	PROPOSED PEDESTRIAN POLE BASE		EXISTING POLE BASE IDENTIFIER (TYPE OF POLE BASE)
	EXISTING PEDESTRIAN POLE BASE		PROPOSED JUNCTION WELL IDENTIFIER (TYPE OF JUNCTION WELL)
	PROPOSED WOOD POLE		EXISTING JUNCTION WELL IDENTIFIER (TYPE OF JUNCTION WELL)
	EXISTING UTILITY POLE		PROPOSED CONDUIT RUN IDENTIFIER (# OF CONDUIT RUN)
	PROPOSED JUNCTION WELL		EXISTING CONDUIT RUN IDENTIFIER (# OF CONDUIT RUN)
	EXISTING JUNCTION WELL		PROPOSED OVERHEAD RUN IDENTIFIER (# OF OVERHEAD RUN)
	PROPOSED SIGNAL HEAD		EXISTING OVERHEAD RUN IDENTIFIER (# OF OVERHEAD RUN)
	EXISTING SIGNAL HEAD		PROPOSED MAST ARM IDENTIFIER (LENGTH OF ARM)
	PROPOSED PEDESTRIAN SIGNAL HEAD		EXISTING MAST ARM IDENTIFIER (LENGTH OF ARM)
	EXISTING PEDESTRIAN SIGNAL HEAD		PROPOSED CABINET IDENTIFIER (TYPE OF CABINET)
	PROPOSED PEDESTRIAN PUSHBUTTON		EXISTING CABINET IDENTIFIER (TYPE OF CABINET)
	EXISTING PEDESTRIAN PUSHBUTTON		PROPOSED SPAN WIRE
	PROPOSED VIDEO DETECTION		EXISTING SPAN WIRE
	EXISTING VIDEO DETECTION		RIGHT-OF-WAY OR PROPERTY LINE
	PROPOSED MICROWAVE DETECTION		PROPOSED SPAN INSULATOR
	EXISTING MICROWAVE DETECTION		EXISTING SPAN INSULATOR
	OVERHEAD SIGNING		SERVICE PEDESTAL
	PROPOSED OPTICOM RECEIVER		
	EXISTING OPTICOM RECEIVER		
	PROPOSED MAST ARM		
	EXISTING MAST ARM		
	PROPOSED LUMINAIRE		
	EXISTING LUMINAIRE		
	PROPOSED LOOP DETECTOR (TYPE 1 OR 2)		
	EXISTING LOOP DETECTOR (TYPE 1 OR 2)		

- GENERAL SIGNAL NOTES**
- PROPOSED LOOP DETECTORS:
 TYPE #1 - 6' x 6' - TO BE INSTALLED ON SR 72 THROUGH MOVEMENTS.
 TYPE #2 - 6' x 25' - TO BE INSTALLED ON SB SR 72 LEFT-TURN MOVEMENT.
 TYPE #3 - 6' x 25' - TO BE INSTALLED ON THE INDEPENDENCE SCHOOL DRIVEWAY EXIT LEFT-TURN MOVEMENT.
 SYSTEM - 6' x 6' - TO BE INSTALLED IN SR 72 RECEIVING LANES, AS SHOWN.

PREPARED BY
JMT

Mir Ake Waked

7/16/24

DATE

SEAL

CONCURRENCE FOR INSTALLATION

CHIEF OF TRAFFIC ENGINEERING

7/16/2024

DATE

CONCUR AS TO FORM THE INDEPENDENCE SCHOOL INC. (SEE SIGNED SIGNAL AGREEMENT) DATE: 5/1/13 RECOMMENDED DATE: 5/1/13 APPROVED TRAFFIC ENGINEER DATE: 5/1/13 APPROVED FOR INSTALLATION CHIEF TRAFFIC ENGINEER DATE: 5/10/13

	ADDENDUM / REVISIONS [1] RE-BUILT SIGNAL WITH PED PHASES AND CDMA FOR FULL-TIME STOP-AND-GO OPERATION. D.C.G. (WR&A) 10-12 (CONTRACT #120140400)	SCALE 0 30 60 90 FEET	CONTRACT T201404001	PERMIT NO. N004P	SIGNAL PLAN SR 72 (PAPER MILL ROAD) @ THE INDEPENDENCE SCHOOL	SHEET NO. 2
			COUNTY NEW CASTLE	CHECKED BY: M.J.B. (WR&A)		DESIGNED BY: D.C.G. (WR&A)

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PREPARED BY
JMT

Mir Ali Wahed

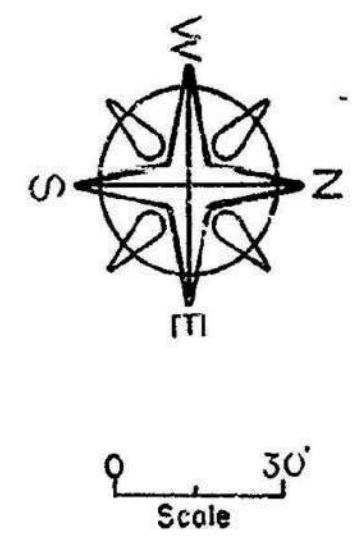
7/16/24
DATE

CONCURRENCE FOR INSTALLATION

CHIEF OF TRAFFIC ENGINEERING

7/16/2024
DATE

MR. A. WAHED
LICENSE
No. 14810
DELAWARE
PROFESSIONAL ENGINEER

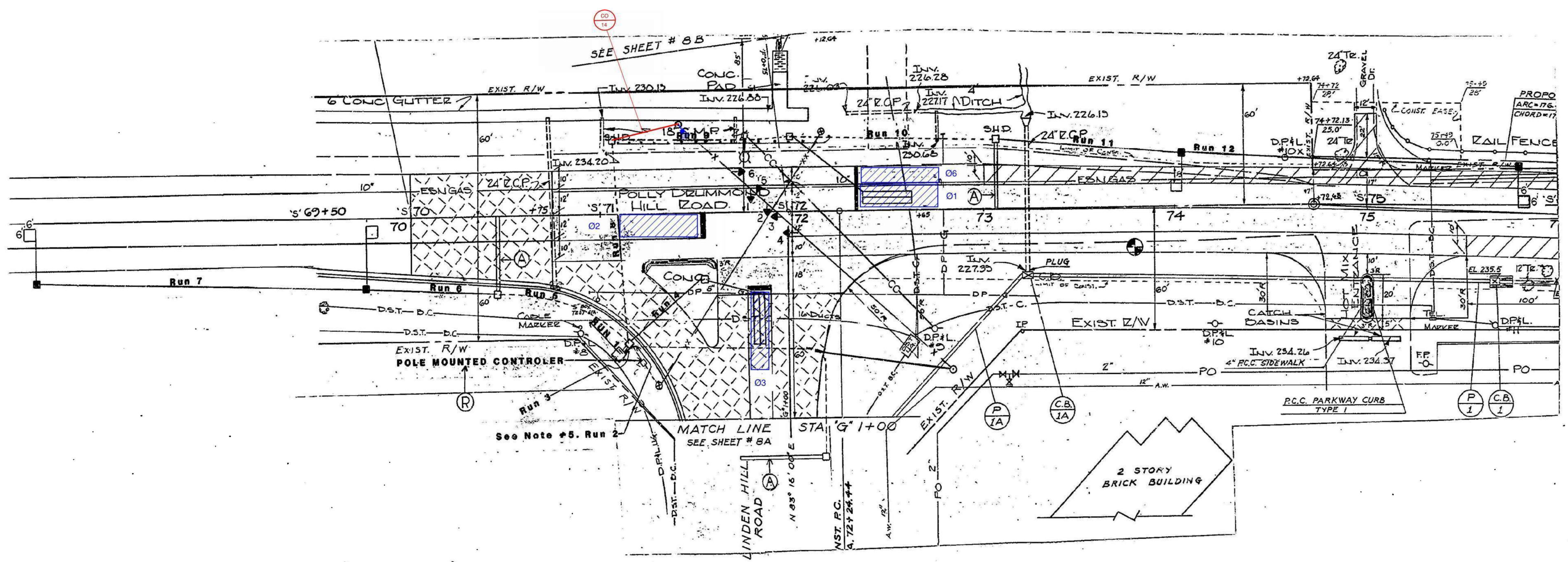


TEMPORARY FOR USE
ONLY DURING
CONSTRUCTION

ADDITIONAL LEGEND

MINIMUM DETECTION ZONE

XP21 WAVETRONIX DETECTION



DELAWARE DIVISION OF HIGHWAYS
BUREAU OF TRAFFIC

DOVER DELAWARE

PERMIT NO. N-258 CONTRACT NO. FED. AID NO. SHEET NO. TOTAL

SIGNAL PLAN
POLLY DRUMMOND HILL RD. &
LINDEN HILL RD.

PREL. TRACNG DATE DESIGN DATE
D.J.D. 9-23-86

REVISION

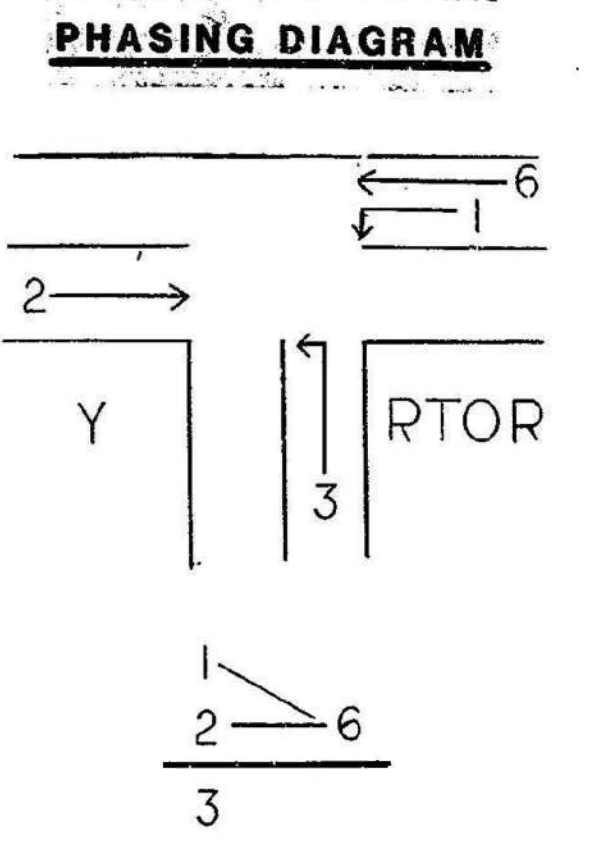
LEGEND

○	POLE BASE TYPE (#1-6)
⊙	EXISTING STEEL POLE BASE
⊠	EXISTING ALUMINUM POLE BASE
⊕	PEDESTAL BASE
⊗	EXISTING PEDESTAL BASE
⊘	WOOD POLE
○	EXISTING WOOD POLES
⊙	EXISTING DR&L AND D.ST POLES
⊠	CABINET BASE
⊗	EXISTING CABINET BASE
---	RIGHT-OF-WAY OR PROPERTY LINE
---	GALVANIZED CONDUIT
---	EXISTING GALV. CONDUIT
---	NON-METALLIC CONDUIT
---	EXISTING NON-METALLIC CONDUIT
LP #	LOOP DETECTOR TYPE (#1-7)
---	EXISTING LOOP DETECTOR
■	JUNCTION WELL TYPE (#1-4)
○	EXISTING JUNCTION WELL
-x-	SPAN WIRE
-xx-	EXISTING SPAN WIRE
-c-	OVERHEAD CABLE
-cc-	EXISTING OVERHEAD CABLE
→	SIGNAL HEAD
↖	EXISTING SIGNAL HEAD
↗	PEDESTRIAN SIGNAL HEAD
↘	EXISTING PED. SIGNAL HEAD
⊖	MAST ARM
⊕	REMOVE
⊖	ABANDON
⊖	REMOVE EXISTING CONCRETE BASE
⊖	6" BELOW GROUND LEVEL AND COVER.
⊖	LUMINAIRE (WATTAGE)
⊖	EXISTING LUMINAIRE (WATTAGE)
A	1 1/2" GALVANIZED CONDUIT
B	2" GALVANIZED CONDUIT
C	2 1/2" GALVANIZED CONDUIT
D	3" NON-METALLIC CONDUIT
E	4" NON-METALLIC CONDUIT
X	EXISTING CONDUIT

CONDUIT RUNS

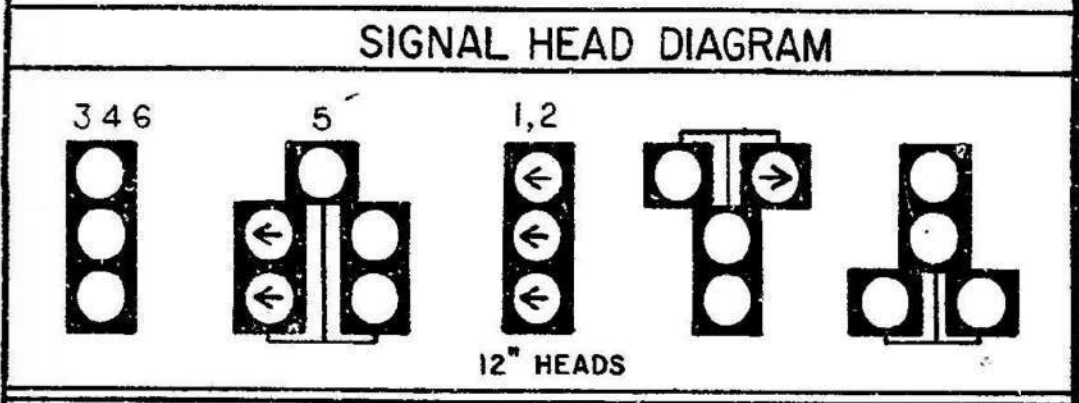
Run 1	- A - 100' - (1) 2/#8 UF W/G
2	- C - 80' - (2) 16/#14
3	- (2)C - 10' - (6) 4/#19 WAVETRONIX XP21 CABLE
4	- X - 50' - (1) 4/#19
5	- X - 75' - (2) 4/#19
6	- A - 70' - (2) 4/#19
7	- A - 175' - (1) 4/#19
8	- X - 100' - (3) 4/#19 WAVETRONIX XP21 CABLE
9	- X - 95' - (3) 4/#19
10	- X - 110' - (2) 4/#19
11	- A - 97' - (2) 4/#19
12	- A - 175' - (1) 4/#19
13	- X - 160' - (0)
14	- X-35'-(2) 16/14" WAVETRONIX XP21 CABLE
15	

- NOTES
- Detection - 50 MPH - Dilemma Zone - 171' and 351' From Stop Bar.
 - All Loop Detectors Type #3, 6"x25", Except As Shown.
 - All Pole Bases Type #3.
 - All Junction Wells Type #1.
 - Sweep Existing Conduit Into Control Cabinet.



- ADDITIONAL NOTES
- INSTALL WAVETRONIX XP21 DETECTOR PRIOR TO DISCONNECTING EXISTING TRAFFIC LOOPS. INSTALL AND MAINTAIN WAVETRONIX XP21 DETECTOR THROUGHOUT CONSTRUCTION, UNTIL PROPOSED LOOPS ARE OPERATIONAL.
 - MOUNT THE WAVETRONIX XP21 DETECTOR TO STRAIN POLE 1 AS SHOWN ON THE TEMPORARY DETECTION PLAN. MOUNT THE DEVICE AT A MANUFACTURER RECOMMENDED HEIGHT OF 15-25 FEET ABOVE THE PAVEMENT GRADE. TRIM VEGETATION AS NECESSARY AROUND POLE FOR SENSOR PLACEMENT.
 - UTILIZE THE SUPPLIED WAVETRONIX XP21 CABLES TO CONNECT THE DETECTOR TO THE CABINET, USING CONDUIT #3, #8 & #14, AS SHOWN ON THE TEMPORARY DETECTION PLAN.
 - COORDINATE WITH TMC 10 DAYS PRIOR TO DISCONNECTING TRAFFIC LOOPS AS WELL AS PRIOR TO REACTIVATING TRAFFIC LOOPS.
 - ONCE THE PROPOSED LOOP DETECTORS ARE OPERATIONAL, ADJUST WAVETRONIX XP21 DETECTION ZONES TO MATCH THE PERMANENT STRIPING CONDITION AS NEEDED, AND ENSURE THAT THE DETECTOR OPERATES PROPERLY. DEACTIVATE THE WAVETRONIX SYSTEM IN THE CONTROLLER CABINET IN THE PERMANENT CONDITION. THE SYSTEM WILL REMAIN IN PLACE FOR FUTURE USE.
 - FIELD SURVEY TO BE PERFORMED BY THE WAVETRONIX REP. CONTACT DON HENRY AT 302-390-1523 AT LEAST TWO WEEKS IN ADVANCE OF ANY WORK INVOLVING WAVETRONIX DEVICE.
 - CLEAR VEGETATION IN THE VICINITY OF STRAIN POLE #1 AS NEEDED TO INSTALL AND PROPERLY OPERATE THE WAVETRONIX XP21 DETECTOR.

FUNDS DERIVED FROM SENATE BILL NO. 650, \$32,000.



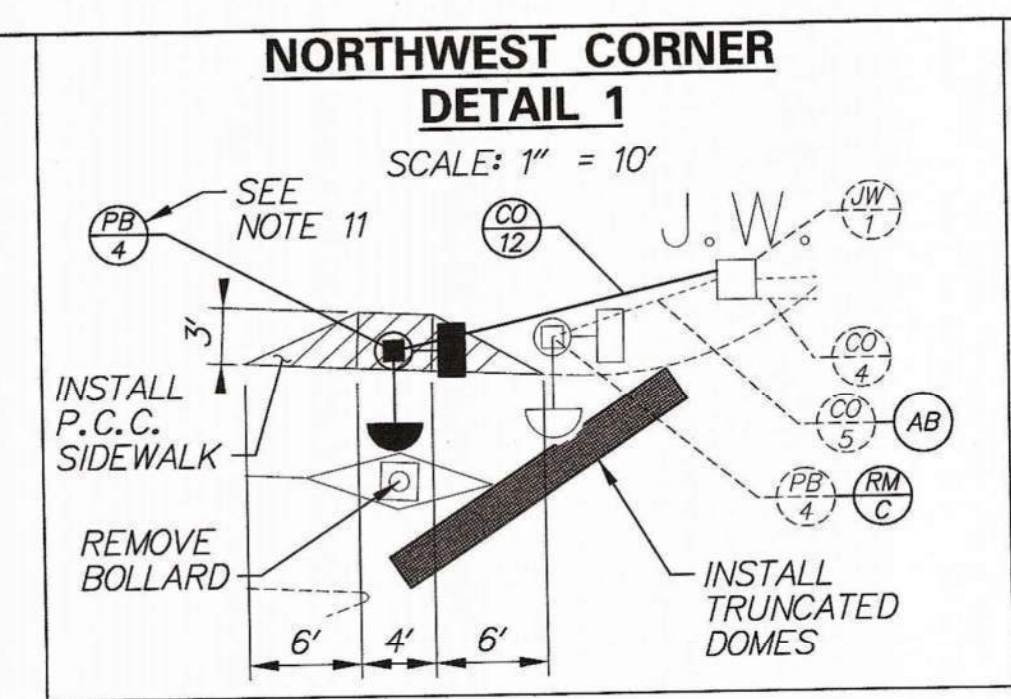
RECOMMENDED	Sept 23, 1986	Darius Dett
RECOMMENDED	Sept 24, 1986	J. R. Linn
RECOMMENDED	19	

APPROVED F.H.W.A. DATE

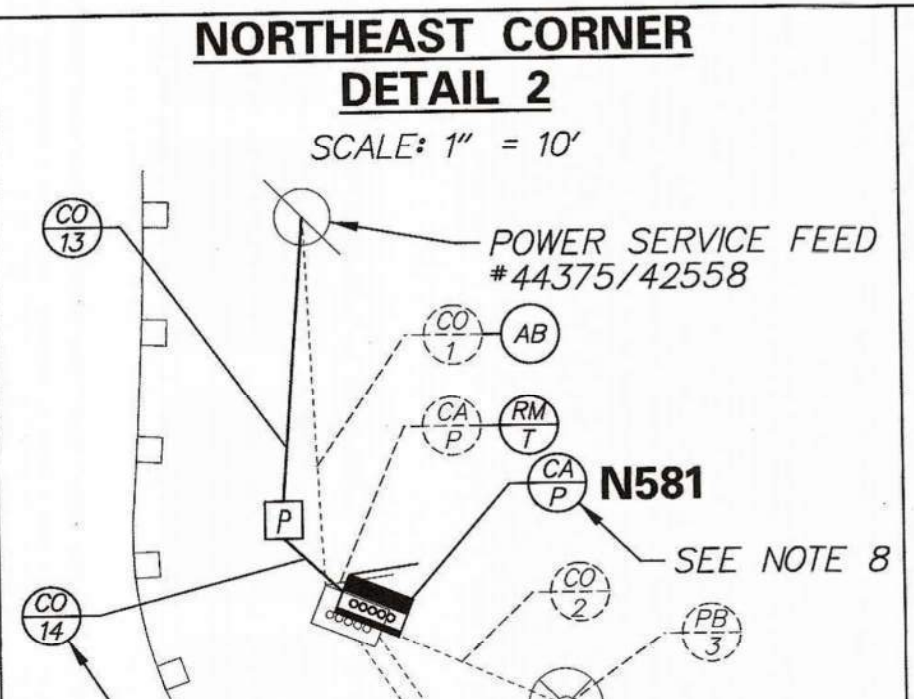
APPROVED for INSTL. DATE
CHIEF TRAFFIC ENGINEER

CONDUIT RUN SCHEDULE					
CO#	# OF CONDUITS	SIZE	LENGTH	B/T/O	AMOUNT AND TYPE OF CABLE/ WIRE
1*	1	1.5 IN	20 FT	-	<REMOVE EX. (1) 2/*8 U.F. W/GROUND>
2*	1	2.5 IN	9 FT	-	<TO REMAIN - EX. (2) 16/*14, EX. (4) 4/*18 WAVETRONIX XP21 CABLE [NEW (1) #6 GROUND]>
3*	2	2.5 IN	25 FT	-	<NEW (1) 5/*14, (1) #6 GROUND, <REMOVE EX. (1) 9/*14, TO REMAIN - EX. (1) 9/*14, EX. (6) 4/*18 [NEW (1) 5/*14, (1) #6 GROUND]>
4*	1	2.5 IN	65 FT	-	<REMOVE EX. (1) 9/*14, TO REMAIN - EX. (1) 4/*18 [NEW (1) 5/*14, (1) #6 GROUND]>
5*	1	2.5 IN	9 FT	-	<REMOVE EX. (1) 9/*14>
6*	1	2.5 IN	12 FT	-	<TO REMAIN - EX. (1) 9/*14>
7*	1	2.5 IN	230 FT	-	<TO REMAIN - EX. (1) 4/*18>
8*	1	2.5 IN	76 FT	-	<TO REMAIN - EX. (3) 4/*18>
9*	1	2.5 IN	46 FT	-	<TO REMAIN - EX. (2) 4/*18>
10*	1	1.5 IN	62 FT	-	<TO REMAIN - EX. (1) 4/*18>
11*	1	1.5 IN	260 FT	-	<TO REMAIN - EX. (1) 4/*18>
12	1	2.5 IN	18 FT	T	[NEW (1) 5/*14, (1) #6 GROUND]
13**	1	2.0 IN	15 FT	T	[NEW (1) 2/*8 U.F. W/GROUND - LINE SIDE]
14**	1	2.0 IN	4 FT	T	[NEW (1) 2/*8 U.F. W/GROUND - LOAD SIDE]

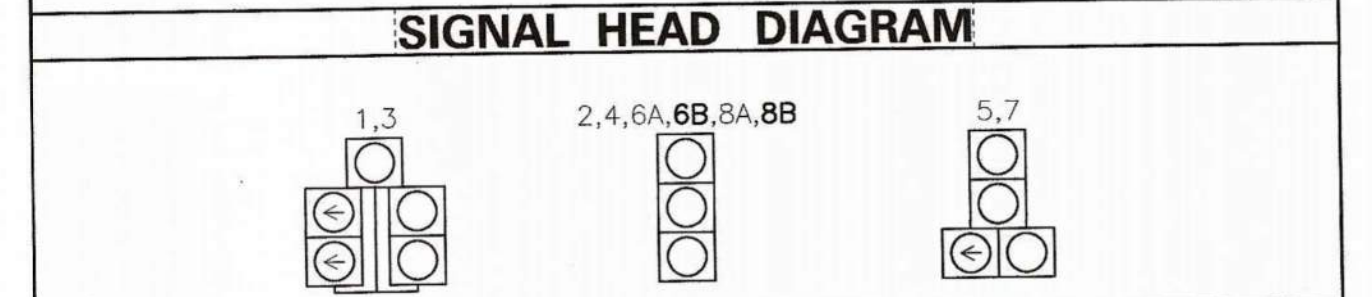
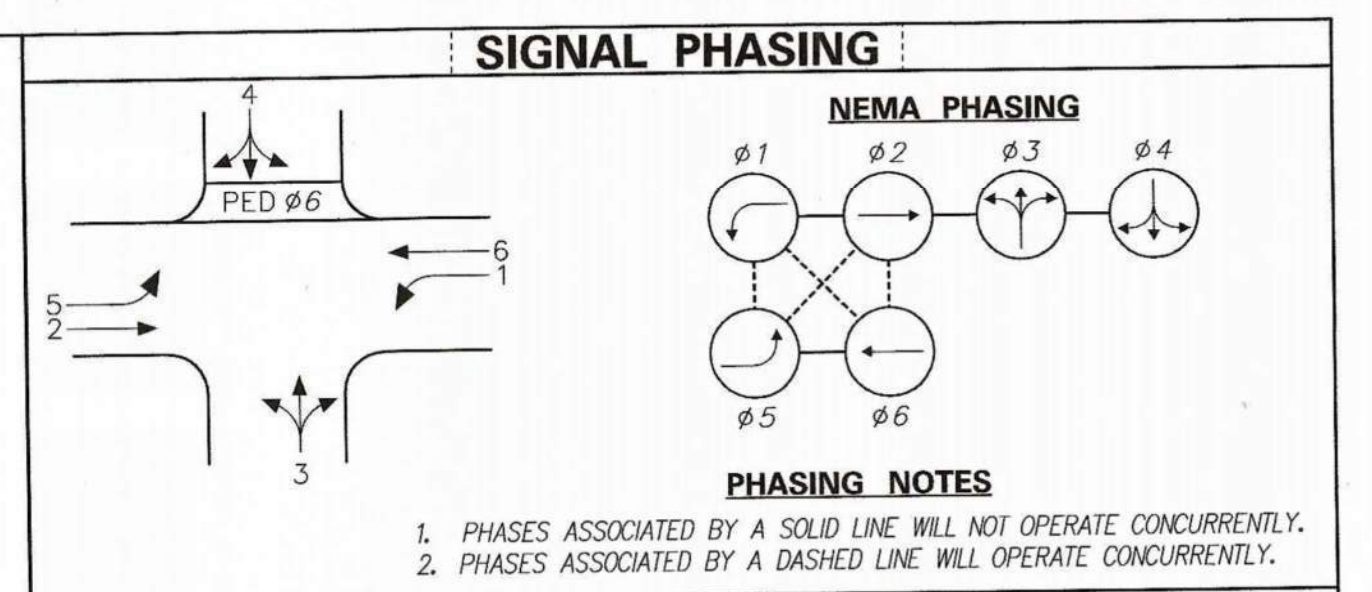
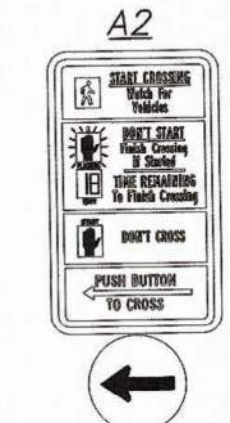
* DENOTES EXISTING CONDUIT
 ** GALVANIZED STEEL CONDUIT (PROPOSED)
 B = BORE, T = TRENCH, O = OPEN CUT



ADDITIONAL LEGEND
 [Hatched Box] MINIMUM DETECTION ZONE
 [Blue Arrow] XP21 WAVETRONIX DETECTION



TEMPORARY FOR USE ONLY DURING CONSTRUCTION



LEGEND		
	EXISTING SYMBOL	PROPOSED SYMBOL
AB	ABANDON	EXISTING OVERHEAD RUN IDENTIFIER (# OF OVERHEAD RUN)
CA	EXISTING CABINET IDENTIFIER (TYPE OF CABINET)	PROPOSED OVERHEAD RUN IDENTIFIER (# OF OVERHEAD RUN)
CA	PROPOSED CABINET IDENTIFIER (TYPE OF CABINET)	EXISTING POLE BASE IDENTIFIER (TYPE OF POLE BASE)
CO	EXISTING CONDUIT RUN IDENTIFIER (# OF CONDUIT RUN)	PROPOSED POLE BASE IDENTIFIER (TYPE OF POLE BASE)
CO	PROPOSED CONDUIT RUN IDENTIFIER (# OF CONDUIT RUN)	EXISTING POLE IDENTIFIER (# OF POLE)
JW	EXISTING JUNCTION WELL IDENTIFIER (TYPE OF JUNCTION WELL)	PROPOSED POLE IDENTIFIER (# OF POLE)
JW	PROPOSED JUNCTION WELL IDENTIFIER (TYPE OF JUNCTION WELL)	REMOVE BY CONTRACTOR
MA	EXISTING MAST ARM IDENTIFIER (LENGTH OF ARM)	REMOVE BY TRAFFIC
MA	PROPOSED MAST ARM IDENTIFIER (LENGTH OF ARM)	REMOVE BY TRAFFIC CONTRACTOR

PREPARED BY
 JMT
 Mir A. Wahed
 7/16/24
 DATE

CONCURRENCE FOR INSTALLATION
 [Signature]
 CHIEF OF TRAFFIC ENGINEERING
 7/16/2024
 DATE

DELAWARE PROFESSIONAL ENGINEER
 No. 14810

- NOTES:**
- ALL WORK PERFORMED UNDER THIS PROJECT IS INTENDED TO OCCUR WITHIN DELDOT'S EXISTING RIGHT-OF-WAY BASED ON NEW CASTLE COUNTY TAX PARCEL MAPS.
 - THE CONTRACTOR SHALL REPLACE THE EXISTING PEDESTRIAN SIGNAL MODULE WITH A COUNTDOWN MODULE.
 - THE CONTRACTOR SHALL INSTALL THE PROPOSED APS STATION WITH THE PUSHBUTTON ROTATED SO THAT THE FACE OF THE PUSHBUTTON IS PARALLEL WITH THE CROSSING, AS SHOWN.
 - THE PROPOSED APS STATION SHALL BE SPLICED TO THE EXISTING 9/*14 CABLE.
 - DELDOT TRAFFIC SHALL INSTALL THE PROPOSED SIGNAL CABINET, TYPE P, WITH A NEMA EXTENSION RISER AND A CDMA.
 - THE CONTRACTOR SHALL REPOSITION SIGNAL HEADS 6A AND 8A TO PROPOSED LOCATIONS 6B AND 8B, AS SHOWN, TO PROVIDE AN 8' MIN. SPACING.
 - THE CONTRACTOR SHALL CONTACT KEN RIFE AT 302-222-5924 TO COORDINATE THE CONDUIT INSTALLATION INTO THE EXISTING P.C.C. CABINET BASE. THE INSTALLATION SHALL NOT BE VIA A "PUNCH" INTO THE SIDE OF THE ALUMINUM NEMA CABINET.
 - PROPOSED POLE BASES SUPPORTING POLES WITH PEDESTRIAN PUSHBUTTONS SHALL BE CONSTRUCTED IMMEDIATELY ADJACENT TO THE FLAT (50:1 OR FLATTER) LANDING AREA OF THE CURB RAMP OR SIDEWALK IN ACCORDANCE WITH CURRENT ADA BEST PRACTICES. THESE POLE BASES SHALL BE FLUSH WITH THE ADJOINING LANDING AREA. THE PEDESTRIAN PUSHBUTTON SHOULD BE INSTALLED AT A HEIGHT OF 42 TO 48 INCHES ABOVE THE LANDING AREA/SIDEWALK, AND SHALL BE LOCATED SUCH THAT THE MAXIMUM REACH DISTANCE IS 10 INCHES FROM THE LANDING AREA TO THE FACE OF THE PUSHBUTTON. PEDESTRIAN SIGNAL HEADS SHALL BE MOUNTED WITH THE BOTTOM OF THE SIGNAL HOUSING INCLUDING BRACKETS NOT LESS THAN 7 FEET OR MORE THAN 10 FEET ABOVE SIDEWALK LEVEL.

- ADDITIONAL NOTES**
- INSTALL WAVETRONIX XP21 DETECTOR PRIOR TO DISCONNECTING EXISTING TRAFFIC LOOPS. INSTALL AND MAINTAIN WAVETRONIX XP21 DETECTOR THROUGHOUT CONSTRUCTION, UNTIL PROPOSED LOOPS ARE OPERATIONAL.
 - MOUNT THE WAVETRONIX XP21 DETECTOR TO STRAIN POLE 1 AS SHOWN ON THE TEMPORARY DETECTION PLAN. MOUNT THE DEVICE AT A MANUFACTURER RECOMMENDED HEIGHT OF 15-25 FEET ABOVE THE PAVEMENT GRADE. TRIM VEGETATION AS NECESSARY AROUND THE POLE FOR SENSOR PLACEMENT.
 - UTILIZE THE SUPPLIED WAVETRONIX XP21 CABLES TO CONNECT THE DETECTOR TO THE CABINET, USING CONDUIT #2 AS SHOWN ON THE TEMPORARY DETECTION PLAN.
 - COORDINATE WITH TMC 10 DAYS PRIOR TO DISCONNECTING TRAFFIC LOOPS AS WELL AS PRIOR TO REACTIVATING TRAFFIC LOOPS.
 - ONCE THE PROPOSED LOOP DETECTOR IS OPERATIONAL, ADJUST WAVETRONIX XP21 DETECTION ZONES TO MATCH THE PERMANENT STRIPING CONDITION AS NEEDED, AND ENSURE THAT THE DETECTOR OPERATES PROPERLY. DEACTIVATE THE WAVETRONIX SYSTEM IN THE CONTROLLER CABINET IN THE PERMANENT CONDITION. THE SYSTEM WILL REMAIN IN PLACE FOR FUTURE USE.
 - FIELD SURVEY TO BE PERFORMED BY THE WAVETRONIX REP. CONTACT DON HENRY AT 302-390-1523 AT LEAST TWO WEEKS IN ADVANCE OF ANY WORK INVOLVING WAVETRONIX DEVICES.

NA 32028-003\CADD\SS01-New Linden Hill Rd at Upper Pike Creek Rd.dgn
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RECOMMENDED _____ DATE: _____	RECOMMENDED _____ DATE: _____	RECOMMENDED [Signature] DATE: 7/11/24	APPROVED TRAFFIC ENGINEER _____ DATE: _____	APPROVED FOR INSTALLATION CHIEF TRAFFIC ENGINEER [Signature] DATE: 7/16/24
DELAWARE DEPARTMENT OF TRANSPORTATION		ADDENDUM / REVISIONS [] INSTALLED APS, CDMA, COUNTDOWNS, AND SHIFTED SIDE-STREET SIGNAL HEADS B.M.W. (WRA) 5-16 (CONTRACT T201004003)	CONTRACT T201004003 COUNTY NEW CASTLE PERMIT NO. N581 DESIGNED BY: B.M.W. (WRA) CHECKED BY: M.J.B. (WRA)	APS SIGNAL PLAN NEW LINDEN HILL ROAD @ UPPER PIKE CREEK ROAD
SCALE 0 30 60 90 FEET			SHEET NO. 1 TOTAL SHTS. 1	