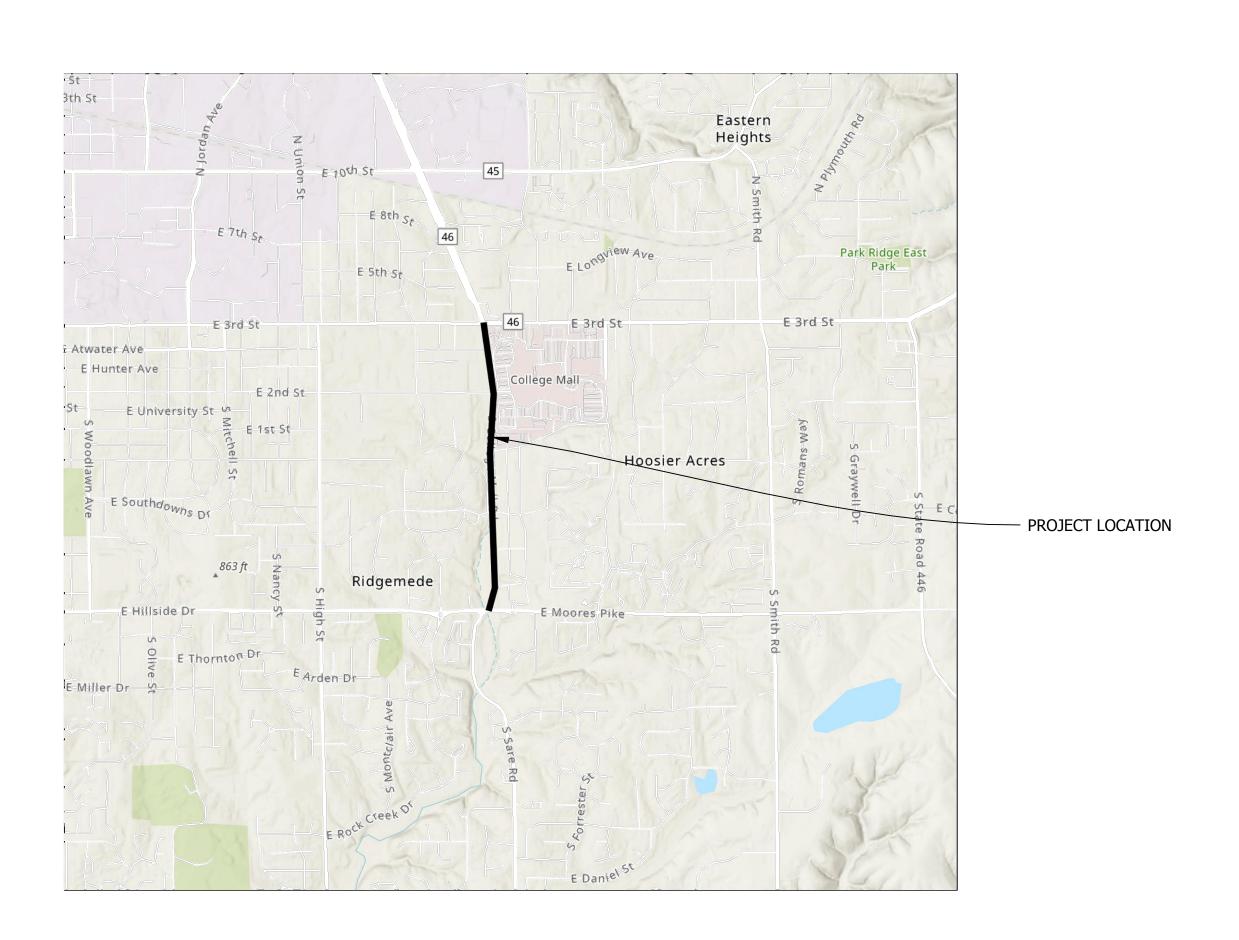
CITY OF BLOOMINGTON



SOUTH COLLEGE MALL ROAD REPAVING

ROUTE: SOUTH COLLEGE MALL ROAD FROM EAST 3RD STREET TO EAST MOORES PIKE, WEST HALF SECTION 02, T-8-N, R-1-W, PERRY TOWNSHIP, MONROE COUNTY, INDIANA

MILLING, CURB RAMPS, HMA PAVEMENT, AND PAVEMENT MARKING REPLACEMENT.



CITY OF BLOOMINGTON MONROE COUNTY INDIANA

> INDIANA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS DATED 2020 AND CURRENT SUPPLEMENTS THERETO, TO BE USED WITH THESE PLANS

DATA

40 MPH

LOCAL

LEVEL

PEDESTRIAN

COMMERCIAL

COLLEGE MALL ROAD

COLLEGE MALL ROAD

23169

28270

TRAFFIC DATA

DESIGN DATA

AADT (2019)

TRUCKS

DESIGN SPEED

RURAL/URBAN

ACCESS CONTROL

TERRAIN

AADT (2014 PROJECTED

DHV (2040 PROJECTED)

DIRECTIONAL DISTRIBUTION

PROJECT DESIGN CRITERIA

FUNCTIONAL CLASSIFICATION



RECOMMENDED	While?	16	7/14/20
FOR APPROVAL _		NGINEER	DATE
DESIGNED:		DRAWN:	REA
CHECKED:		CHECKED:	XX

CITY OF BLOOMINGTON ENGINEERING DEPARTMENT

SOUTH COLLEGE MALL ROAD REPAVING PROJECT

HORIZONTAL SCALE	BRIDGE FILE
VERTICLE SCALE	DESIGNATION
SURVEY BOOK	SHEETS
	1 of 8
CONTRACT	PROJECT

UTILITIES

City of Bloomington

Parking Enforcement 401 N Morton Street Suite #120 Raye Ann Cox 812-349-3436

Water and Sewer

City of Bloomington
Utility Department
600 E Miller Drive
Bloomington, IN 47401
Jane Fleig
812-339-1444

Electricity

Duke Energy 1100 West 2nd Street Bloomington, IN 47403 Kerry Ducker 812-337-3035

City of Bloomington Street Department

Street Department
1981 South Henderson St
Joe Vandeventer
812-349-3448

Gas

Vectren 205 S Madison St Bloomington, IN 47404 812-330-4009

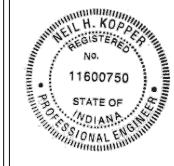
Existing utilities: Existing buried utilities shown in the plan are shown in accordance with the available records and field information available to the engineer. Other utilities may also be present. It is anticipated that numerous buried utility lines are likely to be encountered during construction. The contractor shall be responsible for field locating and coordinating with the owners of the existing utilities to determine the location of their buried facilities. The contractor shall contact City Engineering of any conflicts between existing utilities and proposed work. Maintenance of traffic (vehicular and pedestrian): Continuous maintenance of access to business and residences shall be provided along with protection of the public from construction activities at all times. Temporary traffic control shall be provided by the contractor and in accordance with the latest addition of the Indiana MUTCD. Contractor shall be responsible for keeping the project site in a neat and safe condition at all times. ** Install all pavement markings as shown on plans. Use manufactures recommended primer on all thermoplastic pavement markings that are being applied to concrete pavement or worn asphalt pavement. Pavement marking dimensions shown on plans are from the face of curb or the center of the line. For double lane lines dimensions are to the point between the lane lines. Detectable warning elements shall comply with the City's Approved Material List as described in Memo 18-02. https://bloomington.in.gov/engineering/resources. All warning plates shall be cast

GENERAL NOTES

** REPRESENTS GENERAL NOTES REQUIRED

	INDEX TO SHEETS		
SHEET NO.	DRAWING INDEX		
1	TITLE SHEET		
2	INDEX AND GENERAL NOTES		
3	DETAILS		
4	COLLEGE MALL ROAD, 0+00 TO 12+40		
5	COLLEGE MALL ROAD, 12+40 TO 25+20		
6	COLLEGE MALL ROAD, 25+20 TO 38+00		
7	COLLEGE MALL ROAD, 38+00 TO 50+50		
8	2ND STREET, 0+00 TO 04+42		

REVISIONS				
SHEET NO.	DATE	REVISED		



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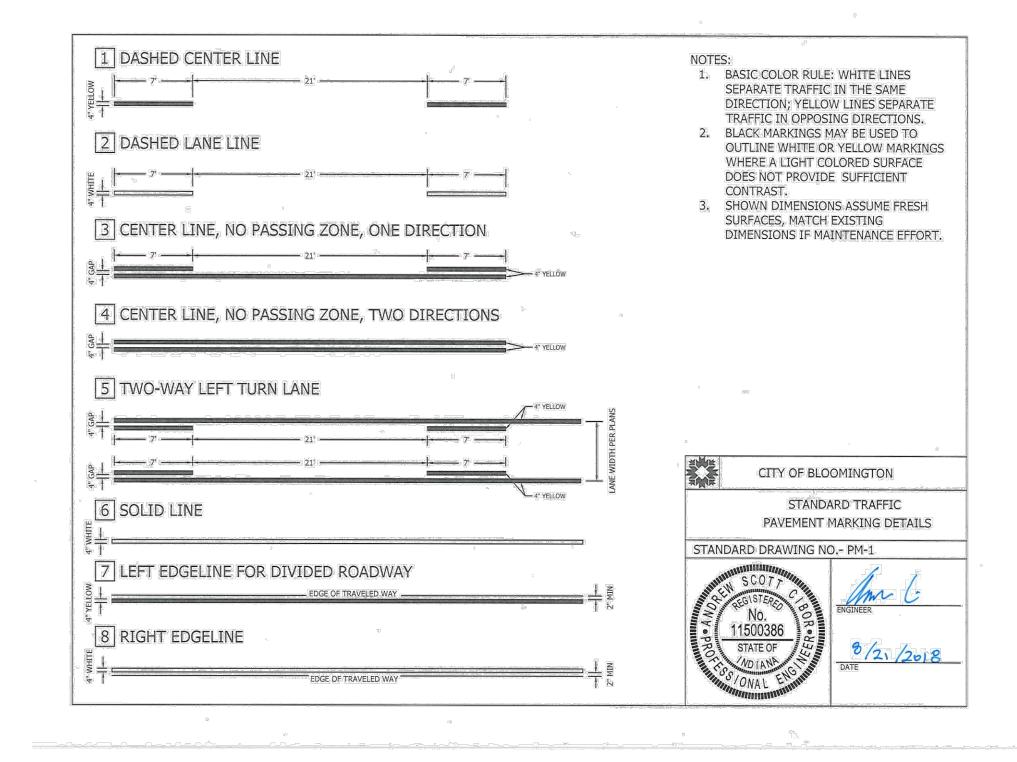
RECOMMENDED FOR APPROVAL	Wil ?	1/2-	7/14/2020
	CITY E	NGINEER	DATE
DESIGNED:		DRAWN:	REA

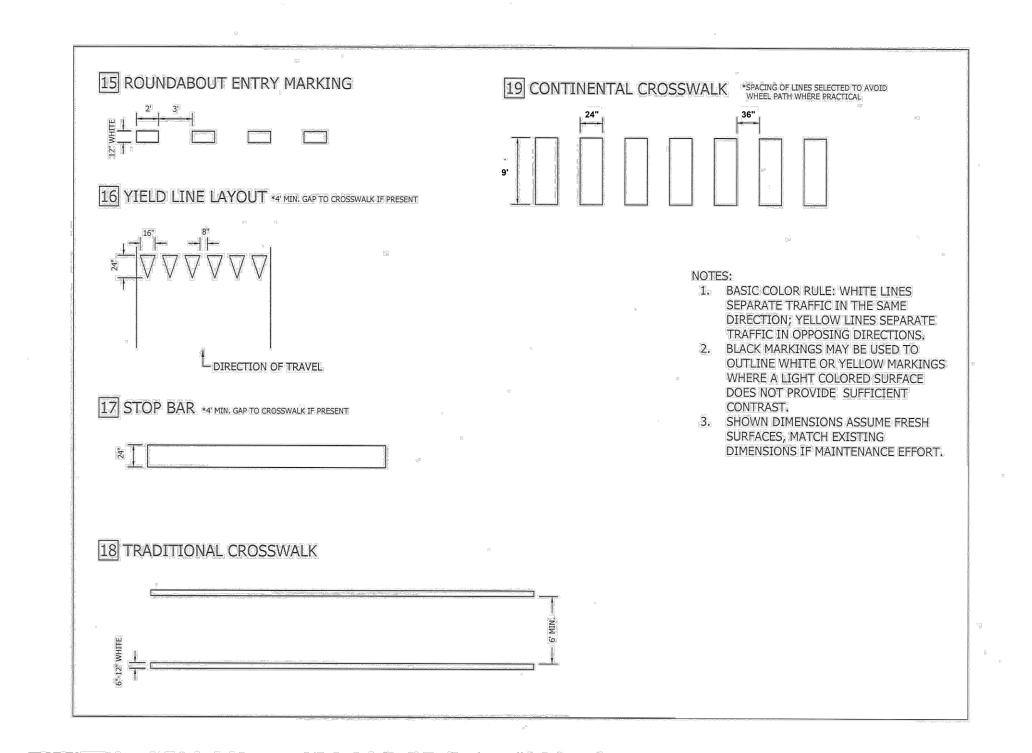
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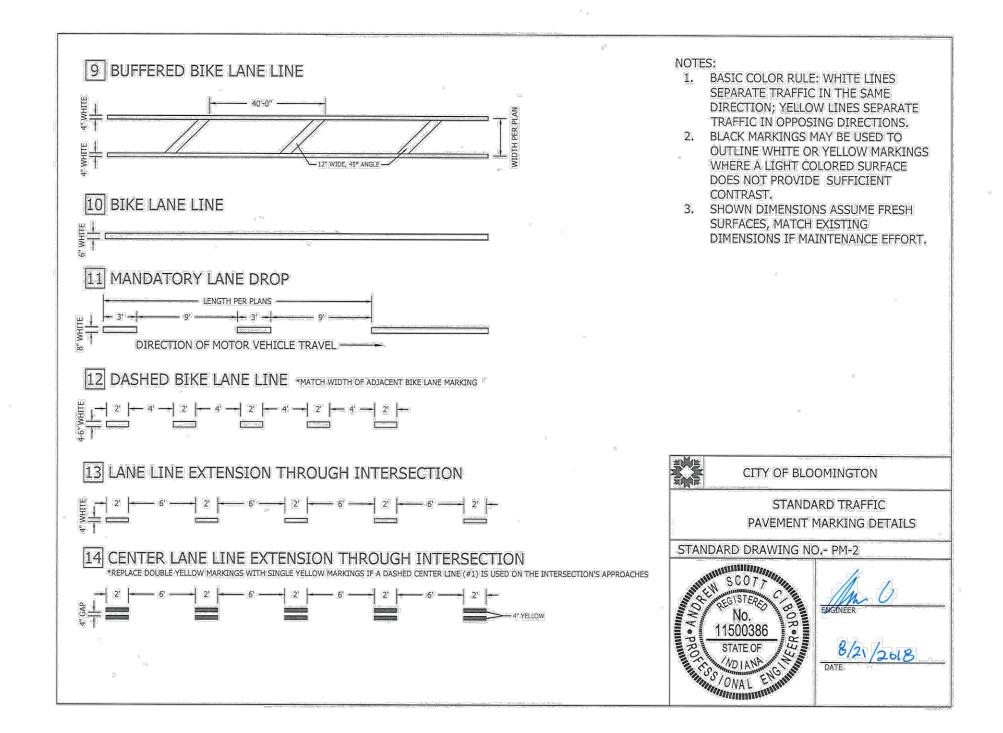
CITY OF BLOOMINGTON ENGINEERING DEPARTMENT

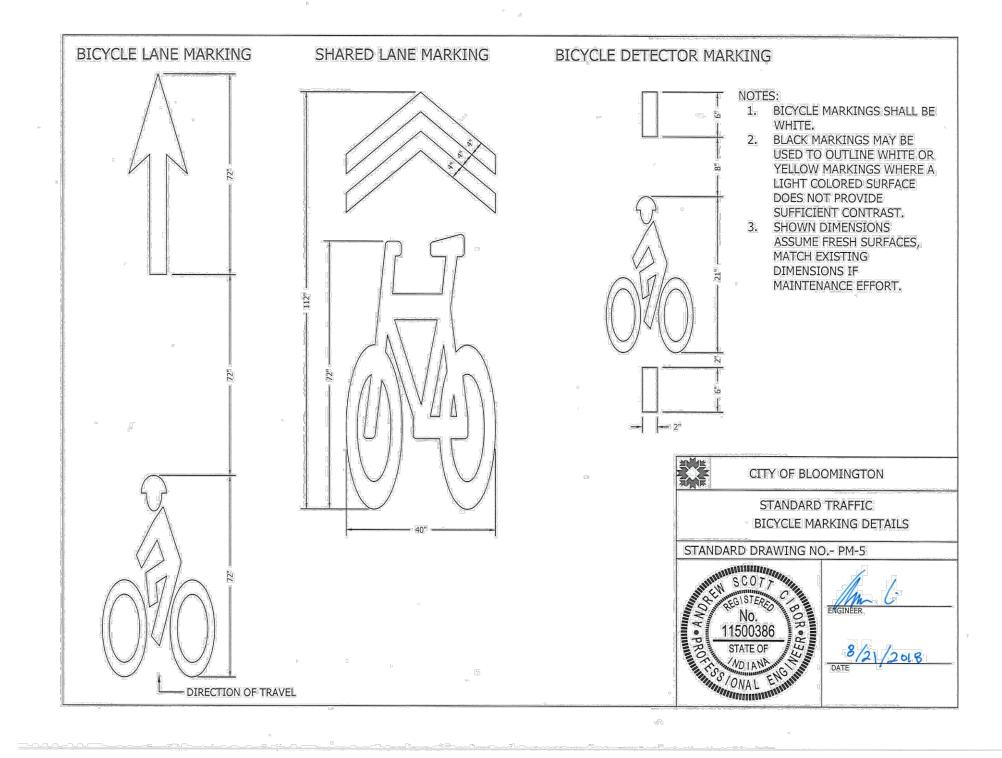
> COLLEGE MALL ROAD GENERAL NOTES

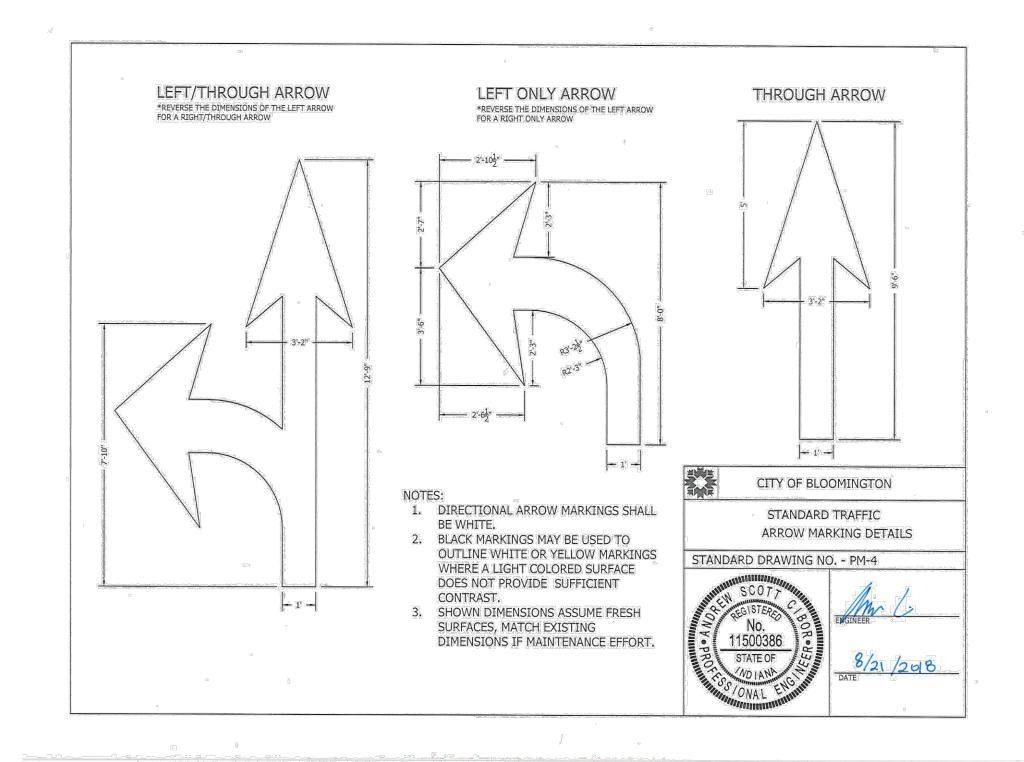
HORIZONTAL SCALE	BRIDGE FILE
VERTICLE SCALE	DESIGNATION
SURVEY BOOK	SHEETS
	2 of 8
CONTRACT	PROJECT

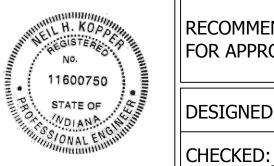












RECOMMENDED FOR APPROVAL	Will Har-	7/14/2020
	CITY ENGINEER	DATE

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CHECKED:	DETAI

TV OF DIOOMINICTONI	HORIZONTAL SCALE	BRIDGE FILE
TY OF BLOOMINGTON		
INEERING DEPARTMENT	VERTICLE SCALE	DESIGNATION
	SURVEY BOOK	SHEETS
COLLEGE MALL ROAD		3 of 8
DETAILS	CONTRACT	PROJECT
		· · · · · · · · · · · · · · · · · · ·

6" DASHED WHITE, 2' SOLID, 4' GAP ALL PAVEMENT MARKING DIMENSIONS ARE FROM THE FACE OF CURB OR THE CENTER OF THE LINE. PAVEMENT MARKING, THERMOPLASTIC, 8" WHITE DASHED, 3 FT SOLID-9 FT GAP STA:1+01.87 OFF:35.35' L STA:1+08.03_ 12.00 STA:4+48.28 OFF:84.56' R ∽ R3-17 USE MANUFACTURER RECOMMENDED PRIMER FOR INSTALLATION OF THERMOPLASTIC PAVEMENT MARKINGS ON CONCRETE AND WORN OFF:79.23' R – R3-17 R3-17b BIKE LANE ENDS 10.00 10.00 11+00 12+00 ─Mid: 6+01.90 INSTALL 17 FT CONCRETE CURB ALONG BACK OF SIDEWALK. ALL PAVEMENT MARKING DIMENSIONS ARE FROM THE PP Pavement Patch, 9" Concrete HORIZONTAL SCALE BRIDGE FILE CITY OF BLOOMINGTON ENGINEERING DEPARTMENT Pavement Markings, 6" Thermoplastic, White, Dashed Bike Lane Line 10 Pavement Markings, 6" Thermoplastic, White, Bike Lane Line 2 Pavement Marking, 4" Thermoplastic, White, Dashed Lane Line RECOMMENDED FOR APPROVAL CITY ENGINEER 1" = 20' HEGISTER NO. 7/14/2020 DESIGNATION VERTICLE SCALE YH) Pavement Marking, 12" Thermoplastic, Yellow, Cross Hatch S4 Sidewalk, 4 IN concrete on 4 IN compacted aggregate. 4 Pavement Marking, 4" Thermoplastic, Yellow, Solid Center Line DATE 11600750 SHEETS 4 of 8 PROJECT SURVEY BOOK WH) Pavement Marking, 12" Thermoplastic, White, Cross Hatch CR Concrete Curb Ramp with detectable plates. (5) Pavement Marking, 4" Thermoplastic, Yellow, Two-way Left Turn STATE OF NOIANA WITH DRAWN: REA DESIGNED: COLLEGE MALL ROAD 0+00 TO 12+40 CONTRACT SB Pavement Marking, 24" Thermoplastic, Stop Bar K1 Mill 1 $\frac{1}{2}$ ", Pave 165# HMA Surface Type B 6 Pavement Marking, 4" Thermoplastic, White, Solid Line CHECKED:_ CHECKED:_

STA:17+43.46 OFF:84.65' L STA:17+74.00 OFF:90.43' L STA:15+97.91 STA:17+12.64 OFF:31.22' L OFF:31.23' L STA:17+32.80 STA:15+97.91 STA:17+12.63 OFF:3.18' L OFF:3.19' L \ OFF:3.19' L STA:16+20.94 OFF:3.18' L STA:16+20.88 STA:17+32.76 OFF:31.75' R OFF:31.74' R 6.00 CW ALL CROSSWALK MARKINGS TO BE 2' WIDE BY 9' LONG AND SPACED 5' ON CENTERS. CROSSWALKS SHOWN ON PLAN SET MAY NOT BE DRAWN TO SCALE. THE FOLLOWING CROSSWALKS ACROSS COLLEGE MALL ROAD ARE INTENTIONALLY DESIGNED TO ALIGN MARKINGS WITH LANE LINES AND HALFWAY BETWEEN LANE LINES TO MINIMIZE WEAR BY VEHICLE TIRES: ALL PAVEMENT MARKING DIMENSIONS ARE FROM THE AT COVENANTER DRIVE (SOUTH LEG AND NORTH LEG), AT BUICK CADILLAC BLVD (SOUTH LEG AND NORTH USE MANUFACTURER RECOMMENDED PRIMER FACE OF CURB OR THE CENTER OF THE LINE. LEG), AT 2ND STREET (SOUTH LEG ONLY). CROSSWALK LAYOUT TO START BY PLACING ONE CROSSWALK BAR IN LINE WITH BOTH THE NORTHBOUND AND SOUTHBOUND DASHED LANE LINE AND THEN SPACING FOR INSTALLATION OF THERMOPLASTIC PAVEMENT MARKINGS ON CONCRETE AND WORN ADDITIONAL BARS AT 5' ON CENTER IN BOTH DIRECTIONS FROM THOSE POINTS. SPACING WILL VARY FROM THE TYPICAL ONLY AT THE CENTER MEDIAN ISLAND. ALL OTHER CROSSWALKS TO MAINTAIN 5' ON CENTER SPACING (ALIGNMENT WITH LANE LINES NOT **←** ~8 10.00 19+00 25+00 21+00 **8** → REPLACE SECTION OF CONCRETE APRON REPLACE SECTIONS OF CURB AND APRON TO MATCH GRADE FOR RAMP HORIZONTAL SCALE BRIDGE FILE CITY OF BLOOMINGTON ENGINEERING DEPARTMENT Pavement Markings, 6" Thermoplastic, White, Dashed Bike Lane Line 10 Pavement Markings, 6" Thermoplastic, White, Bike Lane Line 2 Pavement Marking, 4" Thermoplastic, White, Dashed Lane Line RECOMMENDED FOR APPROVAL HE GISTER OF THE NO. 7/14/2020 1" = 20' VERTICLE SCALE DESIGNATION S4 Sidewalk, 4 IN concrete on 4 IN compacted aggregate. YH) Pavement Marking, 12" Thermoplastic, Yellow, Cross Hatch 4 Pavement Marking, 4" Thermoplastic, Yellow, Solid Center Line CITY ENGINEER DATE 11600750 SHEETS
5 of 8
PROJECT SURVEY BOOK WH) Pavement Marking, 12" Thermoplastic, White, Cross Hatch CR Concrete Curb Ramp with detectable plates. (5) Pavement Marking, 4" Thermoplastic, Yellow, Two-way Left Turn STATE OF SOLUTION STATE OF STA DRAWN: REA DESIGNED: COLLEGE MALL ROAD 12+40 TO 25+20 CONTRACT SB Pavement Marking, 24" Thermoplastic, Stop Bar K1 Mill 1 $\frac{1}{2}$ ", Pave 165# HMA Surface Type B (6) Pavement Marking, 4" Thermoplastic, White, Solid Line CHECKED: CHECKED:

R3-17b Ø₩ 6.00 — CW ALL CROSSWALK MARKINGS TO BE 2' WIDE BY 9' LONG AND SPACED 5' ON CENTERS. CROSSWALKS SHOWN ON PLAN SET MAY NOT BE DRAWN TO SCALE. THE FOLLOWING CROSSWALKS ACROSS COLLEGE MALL ROAD ARE INTENTIONALLY DESIGNED TO ALIGN MARKINGS WITH LANE LINES AND HALFWAY BETWEEN LANE LINES TO MINIMIZE WEAR BY VEHICLE TIRES: AT COVENANTER DRIVE (SOUTH LEG AND NORTH LEG), AT BUICK CADILLAC BLVD (SOUTH LEG AND NORTH LEG), AT 2ND STREET (SOUTH LEG ONLY). CROSSWALK LAYOUT TO START BY PLACING ONE CROSSWALK BAR IN LINE WITH BOTH THE NORTHBOUND AND SOUTHBOUND DASHED LANE LINE AND THEN SPACING ADDITIONAL BARS AT 5' ON CENTER IN BOTH DIRECTIONS FROM THOSE POINTS. SPACING WILL VARY FROM THE TYPICAL ONLY AT THE CENTER MEDIAN ISLAND. ALL OTHER CROSSWALKS TO MAINTAIN 5' ON CENTER SPACING (ALIGNMENT WITH LANE LINES NOT ALL PAVEMENT MARKING DIMENSIONS ARE FROM THE FACE OF CURB OR THE CENTER OF THE LINE. 12.00 34+00 35+00 37 + 00**8**~ → 6.00 — R3-17 R3-17b BIKE LANE PAVEMENT MARKINGS, DROP LANE LINE.

FROM 100 FT FROM STOP BAR, INSTALL 6"
THERMOPLASTIC WHITE DASHED LINE, 2 FT
SOLID WITH 4 FT GAP. HORIZONTAL SCALE BRIDGE FILE CITY OF BLOOMINGTON ENGINEERING DEPARTMENT Pavement Markings, 6" Thermoplastic, White, Dashed Bike Lane Line 10 Pavement Markings, 6" Thermoplastic, White, Bike Lane Line 2 Pavement Marking, 4" Thermoplastic, White, Dashed Lane Line RECOMMENDED FOR APPROVAL CITY ENGINEER HEGISTER NO. 7/14/2020 1" = 20' VERTICLE SCALE DESIGNATION (YH) Pavement Marking, 12" Thermoplastic, Yellow, Cross Hatch S4 Sidewalk, 4 IN concrete on 4 IN compacted aggregate. 4 Pavement Marking, 4" Thermoplastic, Yellow, Solid Center Line DATE 11600750 SHEETS 6 of 8 PROJECT SURVEY BOOK WH) Pavement Marking, 12" Thermoplastic, White, Cross Hatch CR Concrete Curb Ramp with detectable plates. 5 Pavement Marking, 4" Thermoplastic, Yellow, Two-way Left Turn STATE OF STA DRAWN: REA DESIGNED: COLLEGE MALL ROAD 25+20 TO 38+00

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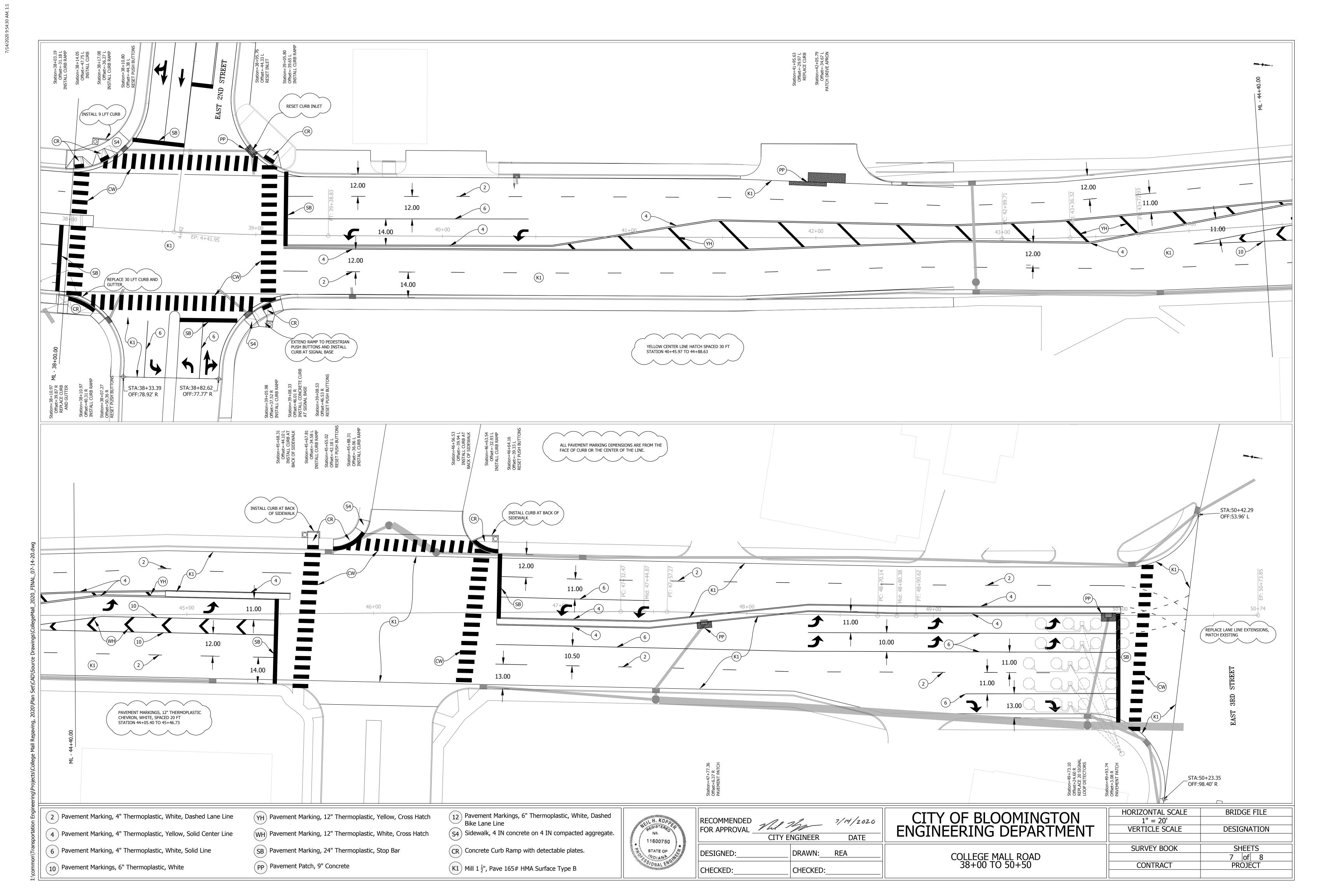
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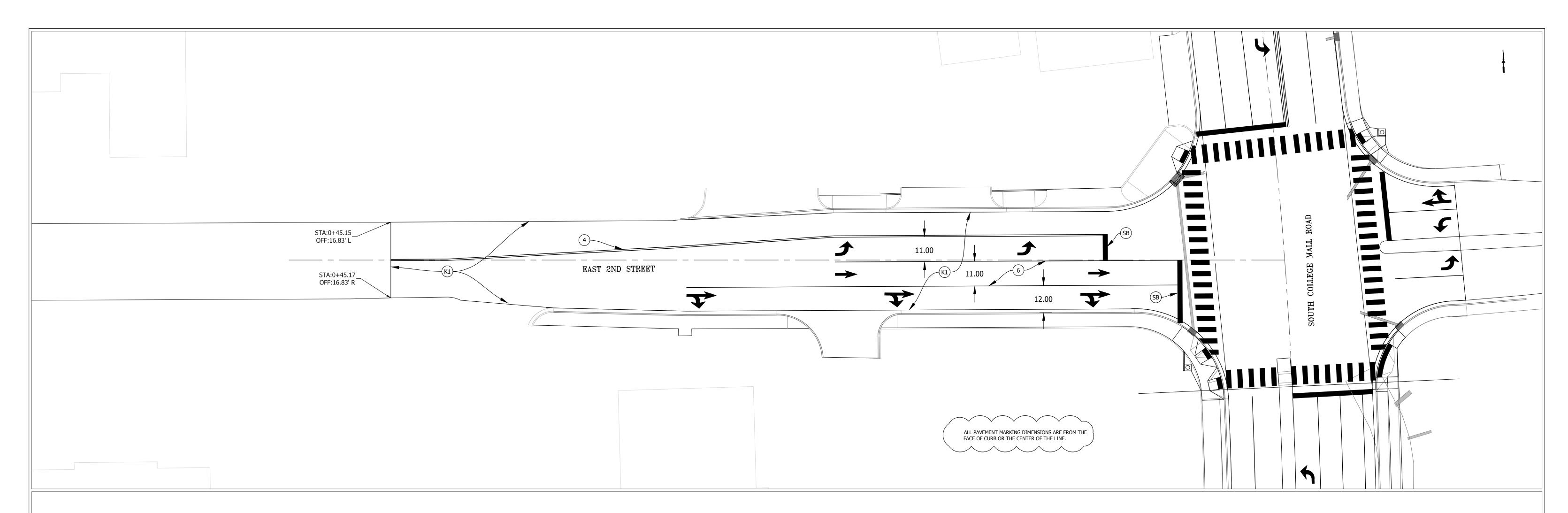
SB Pavement Marking, 24" Thermoplastic, Stop Bar

6 Pavement Marking, 4" Thermoplastic, White, Solid Line

K1 Mill 1 $\frac{1}{2}$ ", Pave 165# HMA Surface Type B

CONTRACT





2 Pavement Marking, 4" Thermoplastic, White, Dashed Lane Line

4 Pavement Marking, 4" Thermoplastic, Yellow, Solid Center Line

(6) Pavement Marking, 4" Thermoplastic, White, Solid Line

10 Pavement Markings, 6" Thermoplastic, White, Bike Lane Line

YH Pavement Marking, 12" Thermoplastic, Yellow, Cross Hatch

WH) Pavement Marking, 12" Thermoplastic, White, Cross Hatch

SB Pavement Marking, 24" Thermoplastic, Stop Bar

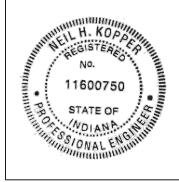
PP Pavement Patch, 9" Concrete

Pavement Markings, 6" Thermoplastic, White, Dashed Bike Lane Line

S4 Sidewalk, 4 IN concrete on 4 IN compacted aggregate.

 $\overline{\rm K1}$ Mill 1 $\frac{1}{2}$ ", Pave 165# HMA Surface Type B

CR Concrete Curb Ramp with detectable plates.



CHECKED:_

RECOMMENDED FOR APPROVAL	Vil ?	1/2m	7/14/2026	FI
	CITY E	NGINEER	DATE	
DESIGNED:		DRAWN:	REA	

_ CHECKED:_

CITY OF BLOOMINGTON ENGINEERING DEPARTMENT EAST SECOND STREET 0+00 TO 04+42

HORIZONTAL SCALE 1" = 20' BRIDGE FILE VERTICLE SCALE DESIGNATION SHEETS 8 of 8 PROJECT SURVEY BOOK CONTRACT