

**ADDENDUM NO. 1**  
**TO THE**  
**DRAWINGS AND SPECIFICATIONS**  
**FOR THE**  
**W Allen Street Greenway Project**

**Issued From:** The City of Bloomington  
Engineering Department  
Post Office Box 100  
401 North Morton Street, Suite #130  
Bloomington, Indiana 47402

**Issue Date:** November 3<sup>rd</sup>, 2022

**Letting Date:** November 21<sup>st</sup>, 2022

This Addendum No.1 to the drawings and specifications shall supplement, amend and become a part of the Bid documents, plans, and specifications for the W Allen Street Greenway Project. All bids and construction contracts shall be based on these modifications to the original contract documents. Bidders shall acknowledge receipt of this Addendum on the Bid Form. Failure to do so may subject the Bidder to disqualification.

**Item No. 1: Pre-bid Conference**

A Pre-Bid Conference will not be held for this project. Below is a summary of the plan changes made since posting of the Bid Packet.

**Item No. 2:**

This revised plan set is intended to be a complete and full substitute for the Plans previously posted. For those prospective bidders who have been using the previous set, the changes are described as follows:

Sheet 5: Revised the detail related to the Concrete Center Curb to update the overall pavement thickness and to clarify the two curb profiles that shall be used in conjunction with the Concrete Center Curb, B.

Sheet 7: Shifted Raingarden #1 to the east by 6', with related changes to the location of the primary outlet (pipe catch basin) and its connection to the underdrain pipe and adjacent storm manhole.

Sheet 10: Revised the dimensioning at the Speed Cushion in Madison to clarify that it is to be 5' from the face of the new curb to the nearest edge of the nearest speed cushion.

Sheet 11: Reduced the proposed width of the new speed cushion in Allen Street to 10'.

Sheet 13: Modified the labelling and linework for the center median to clarify where a mountable profile and vertical profile curb face are to be used, and where transitions between the two are to be placed.

Sheet 14: Clarified the intended location of the two "CROSSWALK CLOSED – USE OTHER SIDE" on the site plan detail.

**Item No. 3:**

Item #44, 'HMA Speed Hump', has been removed from the Unit Price Sheet. All speed cushions are to be paid under Item #04, 'HMA Speed Cushion.' As noted in the plan set, some speed cushions are labeled as extra wide and are to be paid as the equivalent of two speed cushions.

	<p><b>CERTIFIED BY:</b> <u>Neil Kopper</u></p> <p>NEIL KOPPER SENIOR PROJECT ENGINEER CITY OF BLOOMINGTON, IN</p>
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**Acknowledge receipt of the addendum by representing it on the Bid Form in Section B and submitting a signed copy with your bid proposal.**

**RECEIVED BY: CONTRACTOR (FIRM AND ADDRESS)**

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

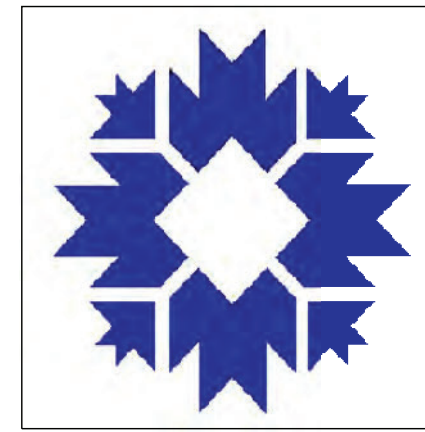
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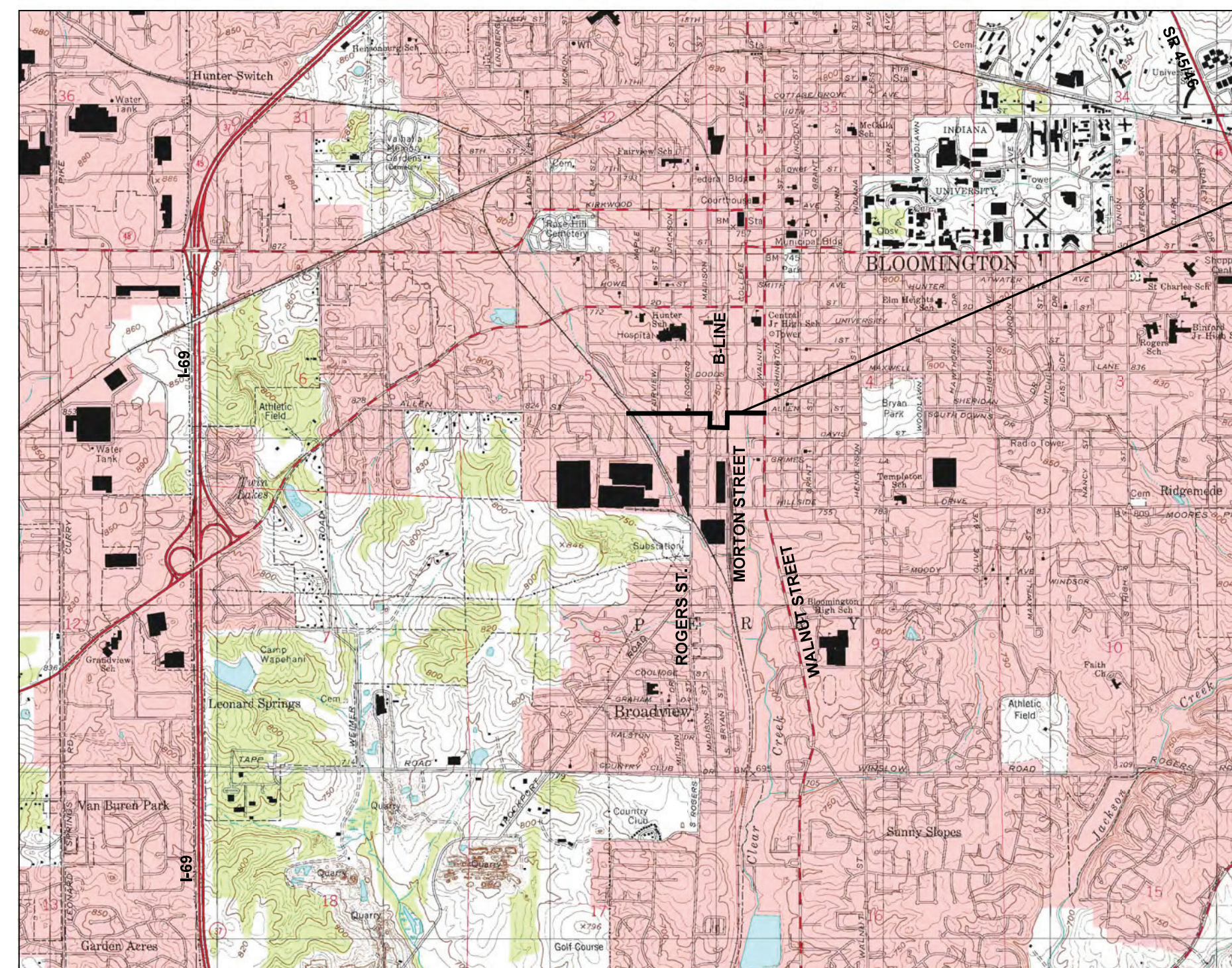
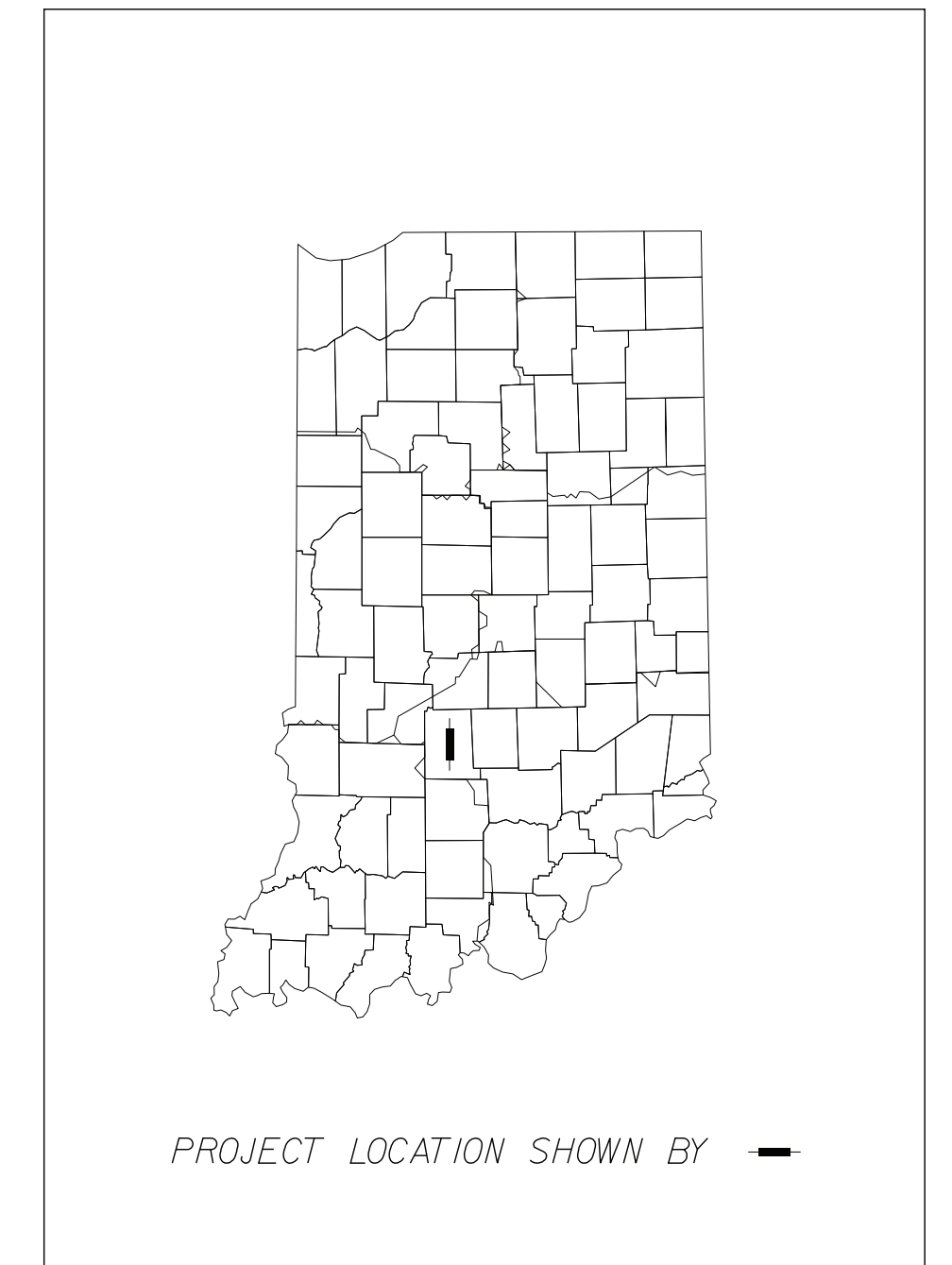
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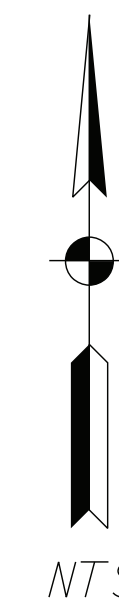
# CITY OF BLOOMINGTON DEPARTMENT OF ENGINEERING



## WEST ALLEN STREET GREENWAY PATTERSON DRIVE TO WALNUT STREET



PROJECT LOCATION



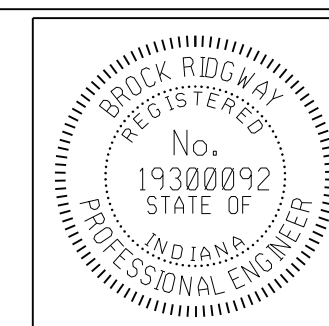
PROJECT LOCATION MAP  
CITY OF BLOOMINGTON, MONROE COUNTY

INDIANA DEPARTMENT OF TRANSPORTATION  
STANDARD SPECIFICATIONS CURRENT EDITION  
TO BE USED WITH THESE PLANS.

PREPARED BY:



1321 Laurel Oak Drive  
Avon, Indiana 46123  
(317)370-9672



PLANS PREPARED BY:

CERTIFIED BY:

APPROVED FOR LETTING:

*B. Ridgway*



(317) 370-9672  
PHONE NUMBER

10-19-2022  
DATE

DATE

SHEETS	
1	of 14
PROJECT	

WEST ALLEN STREET GREENWAY

## UTILITIES

<b>CABLE TELEVISION</b> COMCAST ATTN: STEVE McARTOR 2450 SOUTH HENDERSON ST. BLOOMINGTON, IN 47401 (812) 360-3090	<b>ELECTRIC</b> DUKE (DISTRIBUTION) ATTN: CHRISTINA GIROD 16475 SOUTH PARK DRIVE WESTFIELD, IN 46074 (812) 273-9596 christina.girod@duke-energy.com	<b>TELEPHONE/COMMUNICATIONS (CONT.)</b> AT & T PRIMARY: JOHN HALL (812) 334-4742 ALT: TOD MOORE (812) 334-4718 4517 INDIANA BELL COURT BLOOMINGTON, IN 47408
<b>GAS</b> CENTERPOINT ENERGY ATTN: ARIEL THOMAS 205 SOUTH MADISON BLOOMINGTON, IN 47404 (812) 330-4018 ariel.thomas@centerpoint.com	<b>STORM/SANITARY/WATER</b> CITY OF BLOOMINGTON UTILITIES ATTN: PHIL PEDEEN 600 E. MILLER DRIVE BLOOMINGTON, IN 47401 (812) 349-3634 pedeen@bloomington.in.gov	SMITHVILLE TELEPHONE CO. ATTN: JOE BRYNIARSKI 1600 W. TEMPERANCE ST. ELLETTSVILLE, IN 47429-0729 (812) 935-2262 joe.bryniarski@smithville.com
<b>FOR SERVICE RELOCATIONS</b> (48 HOUR NOTICE NEEDED) ATTN:  <b>DATA</b> BLOOMINGTON DIGITAL UNDERGROUND ATTN: RICK DIETZ ITS DEPT. CITY HALL 401 N. MORTON ST. SUITE 150 BLOOMINGTON, IN 47404 (812) 349-3485	<b>TELEPHONE/COMMUNICATIONS</b> US SIGNAL ATTN: JOHN LUNDELL 201 IONIA AVENUE SW GRAND RAPIDS, MI 49503 (616) 988-7117 jlundell@ussignal.com	CITY OF BLOOMINGTON CITY OF BLOOMINGTON STREET DEPARTMENT ATTN: FREDDIE LOVE 1981 S. HENDERSON STREET BLOOMINGTON, IN 47401 (812) 349-3448 fred.love@bloomington.in.gov
	<b>CENTURYLINK</b> (FORMERLY LEVEL 3 AND GTE) ATTN: DEWAYNE HAMILTON 4625 WEST 86TH STREET INDIANAPOLIS, IN 46268 (317) 966-3356 dewayne.hamilton@centurylink.com	ZAYO ATTN: WAYLON HIGGINS 9209 CASTLE GATE DRIVE INDIANAPOLIS, IN 46256 (765) 341-1199 waylon.higgins@zayo.com

## GENERAL NOTES

1	ALL REMOVAL AND EXCAVATION ITEMS ARE TO BE PAID AS CLEARING.
2	ALL RADII ARE TO BACK OF CURB LINE.
3	USE OF INDOT STANDARD SPECIFICATIONS, UNLESS OTHERWISE PROVIDED IN THESE PLANS OR THE TECHNICAL SPECIFICATIONS, MATERIALS AND WORKMANSHIP OF THE WORK SHALL BE AS REQUIRED BY THE CURRENT EDITION OF THE INDOT STANDARD SPECIFICATIONS.
4	USE OF PROPERTY: NO MATERIALS OR EQUIPMENT SHALL BE STORED IN A LOCATION OR MANNER WHICH PRESENTS A HAZARD TO THE PUBLIC OR THE ENVIRONMENT. THE SAFEGUARD OF MATERIALS REMAINING IN THESE AREAS IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
5	COORDINATION OF DRAWINGS, TECHNICAL SPECIFICATIONS AND STANDARD SPECIFICATIONS: THE CONTRACT DOCUMENTS WHICH ARE LISTED IN THE AGREEMENT ARE INTENDED TO BE COMPLEMENTARY AND TO DESCRIBE AND PROVIDE FOR COMPLETE WORK. A REQUIREMENT APPEARING IN ONE IS BINDING AS THOUGH OCCURRING IN ALL. IN CASE OF DISCREPANCY, THE FOLLOWING ORDER OF PRECEDENCE WILL APPLY: 1. CONSTRUCTION AGREEMENT. 2. INSTRUCTIONS TO BIDDERS. 3. SUPPLEMENTARY GENERAL CONDITIONS. 4. PERMITS ISSUED BY FED/STATE/LOCAL AGENCIES 5. TECHNICAL SPECIFICATIONS. 6. GENERAL CONDITIONS. 7. PROJECT DRAWINGS. 8. STANDARD SPECIFICATIONS AS PUBLISHED BY THE INDIANA DEPARTMENT OF TRANSPORTATION, CURRENT EDITION.
6	PRESENCE OF UTILITIES: MOST OF THIS PROJECT IS PRESENTED ON A GIS BASE MAP AND UTILITIES ARE NOT SHOWN. EXISTING UTILITIES THAT ARE SHOWN ON PLANS ARE APPROXIMATED IN ACCORDANCE WITH AVAILABLE RECORDS, LOCATOR'S MARKINGS, AND PHYSICAL EVIDENCE. OTHER UTILITIES MAY ALSO BE PRESENT. EXACT LOCATIONS AND ELEVATIONS ARE TO BE DETERMINED BY CONTRACTOR.
7	UTILITY LOCATIONS: CONTRACTOR IS REQUIRED BY LAW TO NOTIFY INDIANA UNDERGROUND LOCATION SERVICE AT LEAST TWO WORKING DAYS PRIOR TO COMMENCING ANY EXCAVATION WORK. CONTACT NUMBER IS 811. OTHER LOCAL UTILITIES MAY NOT BE SUBSCRIBERS AND MUST BE CONTACTED INDIVIDUALLY FOR LOCATE REQUESTS.
8	INCIDENTAL WORK: ALL WORK SHOWN OR SPECIFIED IN THE CONTRACT DOCUMENTS AND OTHER WORK WHICH MAY BE INCIDENTAL TO THE DENOTED WORK SHALL BE CONSIDERED TO BE INCLUDED IN THE TOTAL CONTRACT LUMP SUM PRICE.
9	STAKING: CONTRACTOR SHALL BE RESPONSIBLE FOR ALL STAKING.

## INDEX

SHEET NO.	DRAWINGS INDEX
1	TITLE SHEET
2	INDEX / GENERAL NOTES / LEGEND / UTILITY DATA
3 - 5	TYPICAL DETAILS
6 - 12	GREENWAY PLANS - ALLEN STREET
13	INTERSECTION DETAIL
14	MAINTENANCE OF TRAFFIC PLANS

## GENERAL LEGEND (EXISTING SCREENED, PROPOSED IN BOLD)

	LIGHT POLE		WATER METER
	WATER VALVE		GAS VALVE
	INLETS		GAS METER
	HYDRANT		BOLLARD
	TREES		DOWNSPOUT
	SIGN		STORM
	POWER POLE		UNDERGROUND ELECTRIC
	MANHOLE (STORM, SANITARY)		UNDERGROUND TELEPHONE
	TELECOM MANHOLES		OVERHEAD UTILITY
	AIR CONDITIONER		WATERMAINS/WATER LINES
	TELE. RISER		GAS MAINS/LINE
	ELEC. RISER		GUARDRAIL
	TELECOM MANHOLES		WOOD FENCE
	PARKING METER		
	MAILBOX		

### RAIN GARDEN PREFABRICATED STRUCTURE REQUIREMENTS:

PROJECT INCLUDES 2 EACH PRETREATMENT SEDIMENT AND TRASH TRAPS. THESE SHALL BE RAIN GUARDIAN "TURRET" MODEL UNITS AS MANUFACTURED BY RINKER MATERIALS. FOR MORE INFORMATION  
[www.RainGuardian.biz](http://www.RainGuardian.biz)

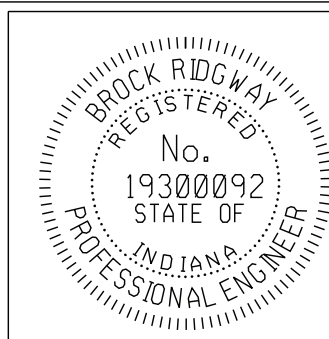
## MAINTENANCE OF TRAFFIC AND EROSION CONTROL ITEMS

	INDOT STANDARD DRUM WITH STEADY BURN LIGHTS
	TEMPORARY CONSTRUCTION FENCING, 48" MESH, ORANGE, ON TEMPORARY STANDS
	BARRICADE (TYPE III)
	CONSTRUCTION SIGNS (SHAPE PER MUTCD)

## PROPOSED ITEMS

	EXISTING R/W		CENTER CURB, B, MODIFIED
	CONCRETE CURB, MOUNTABLE PROFILE		CONSTRUCTION LIMITS
	CONCRETE CURB		CAST STEEL DETECTABLE WARNING PLATES (ON RADIUS, IF RADIUS LABELLED)
	REINFORCED CONCRETE CURB		CONCRETE SIDEWALK, 4" ON 4" COMPACTED AGGREGATE
	NURSERY SODDED AREA - INCLUDED UP TO 6" TOPSOIL UNLESS OTHERWISE NOTED		CONCRETE SIDEWALK, 6" ON 4" COMPACTED AGGREGATE
	2" WHITE LINES FOR CROSSWALKS OR STOP BARS, THERMOPLASTIC		PCCP FOR PATCHING, 12" WITH 1.5" HMA OVERLAY
	4" YELLOW, SOLID LINE, THERMOPLASTIC		RAMP, CONCRETE INCLUDING METAL DETECTABLE WARNING PLATES 6" THICK ON 4" COMPACTED AGGREGATE BASE NO. 53s
	4" GREENWAY RIBBON MARKING, THERMOPLASTIC		NEW TREE, 2" MIN. CALIPER, AMELANCHIER X GRANDIFLORA (CROSS OF ALLEGHENY SERVICE BERRY AND DOWNY SERVICE BERRY)
	BIKE SYMBOLS, THERMOPLASTIC		MILL 10' AND RESURFACE/WEDGE UP TO 1.5" HMA SURFACE, B
	WHITE CHEVRONS (FOR BIKE ROUTE), THERMOPLASTIC		
	SPEED CUSHION MARKINGS, THERMOPLASTIC		
	REMOVE EXISTING SIGN AND POST		
	RESET EXISTING SIGN ON NEW TYPE 1 POST WITH UNREINFORCED ANCHOR BASE		
	NEW SIGN ON TYPE 1 POST WITH UNREINFORCED ANCHOR BASE		

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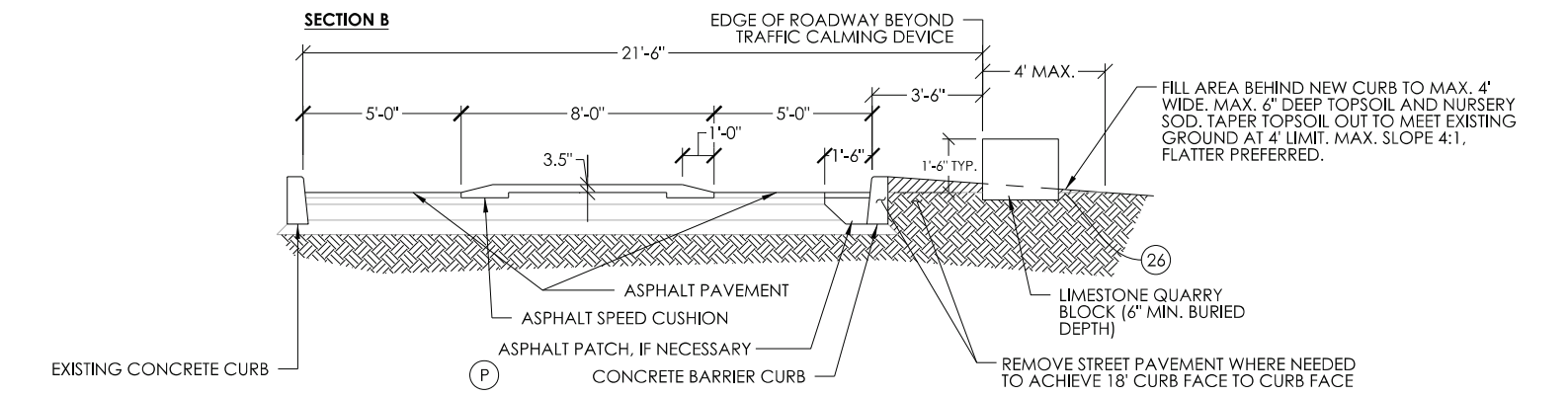
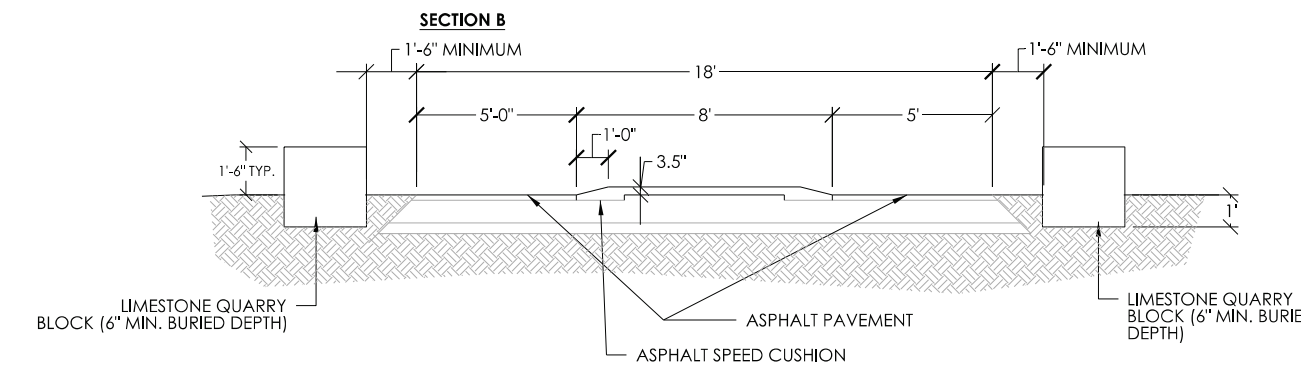
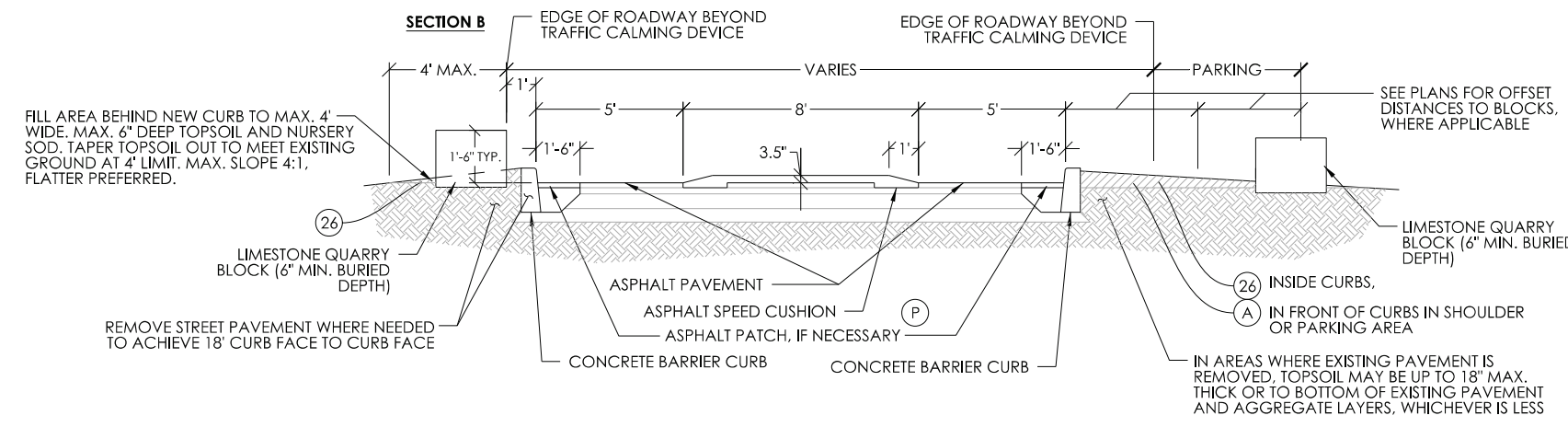
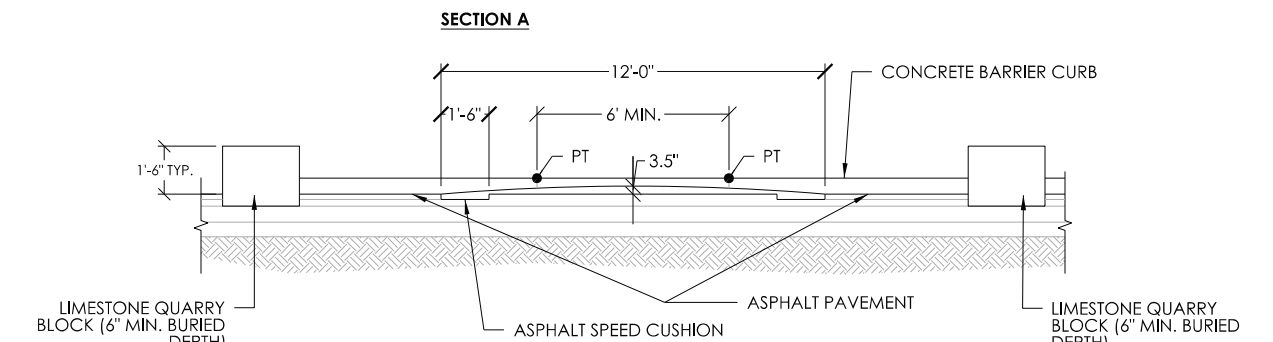
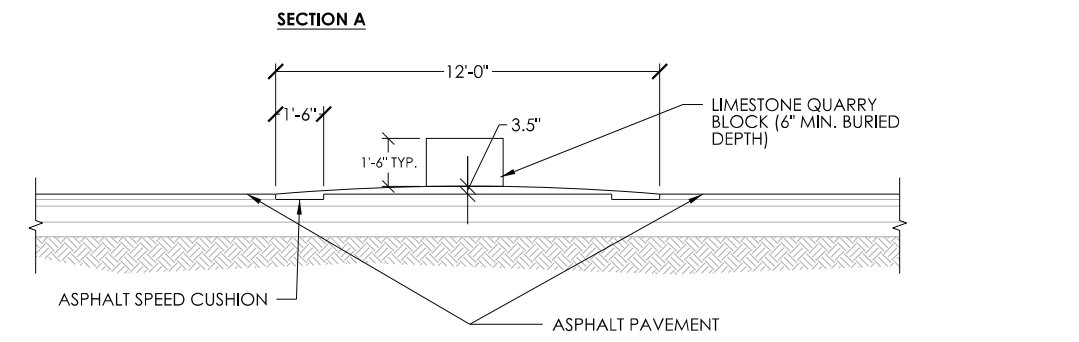
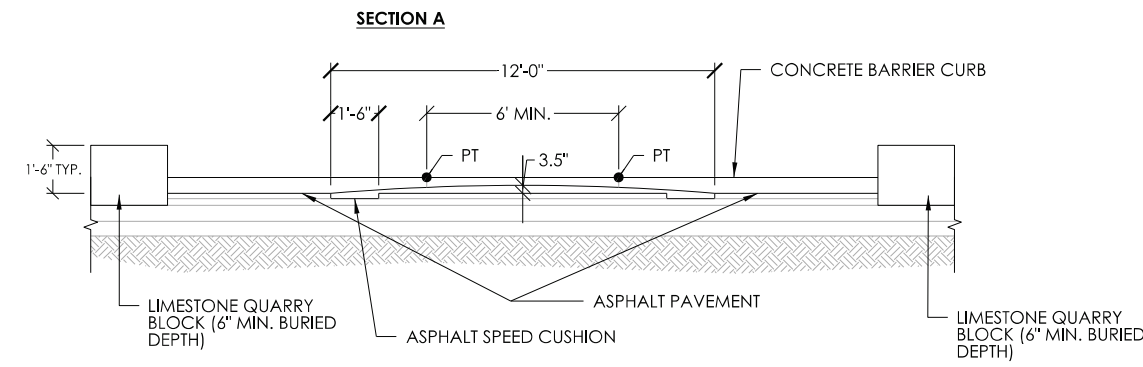
RECOMMENDED FOR APPROVAL		DESIGN ENGINEER	10-19-2022
DESIGNED:	BR	DRAWN:	RBA
CHECKED:	MT	CHECKED:	BR

CITY OF BLOOMINGTON DEPARTMENT OF ENGINEERING	
INDEX / GENERAL NOTES / LEGEND / UTILITY DATA	

HORIZONTAL SCALE	ERCES PROJECT NUMBER
VERTICAL SCALE	240
N/A	SHEET NUMBER
	2

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**SC3 ASPHALT SPEED CUSHION FOR CURBLESS ROADWAY - SECTION**  
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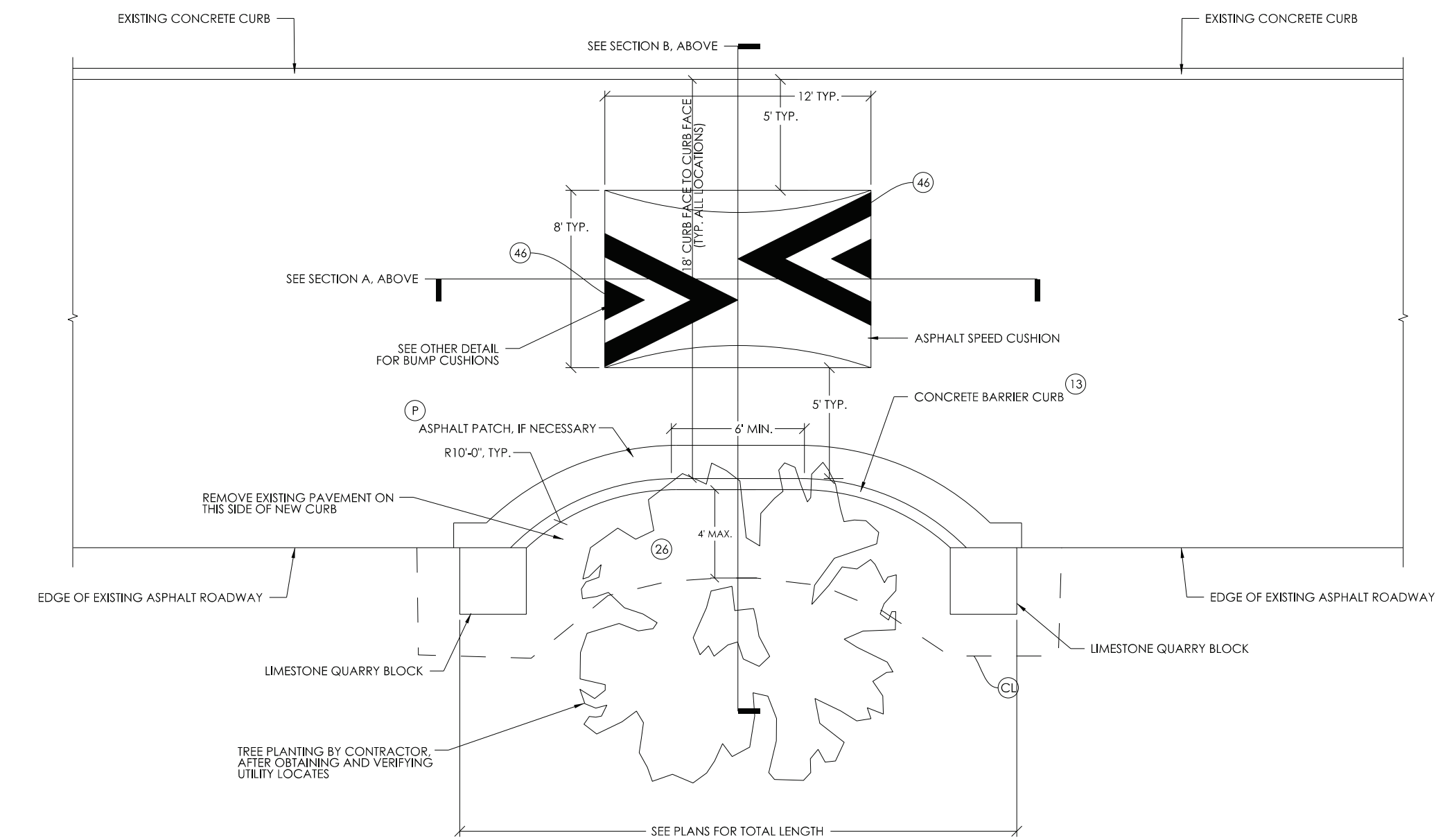
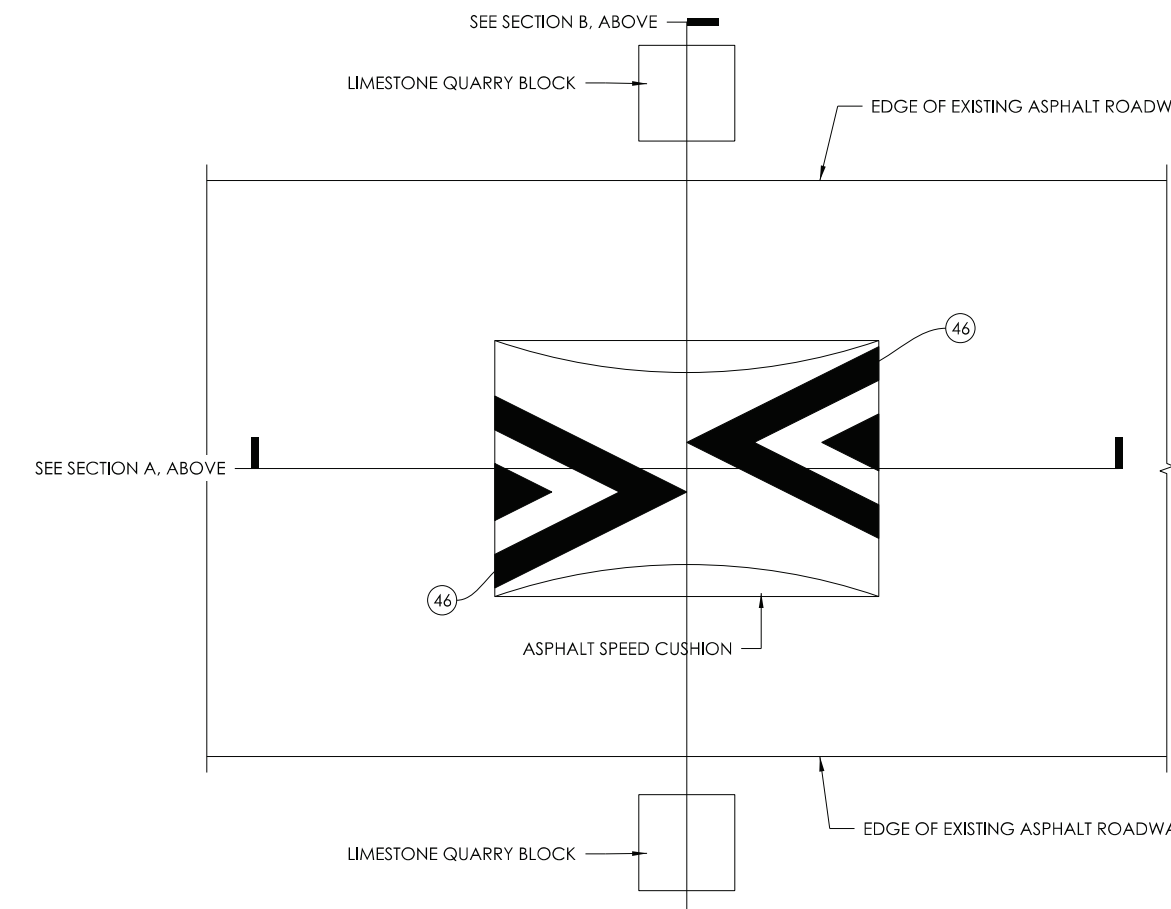
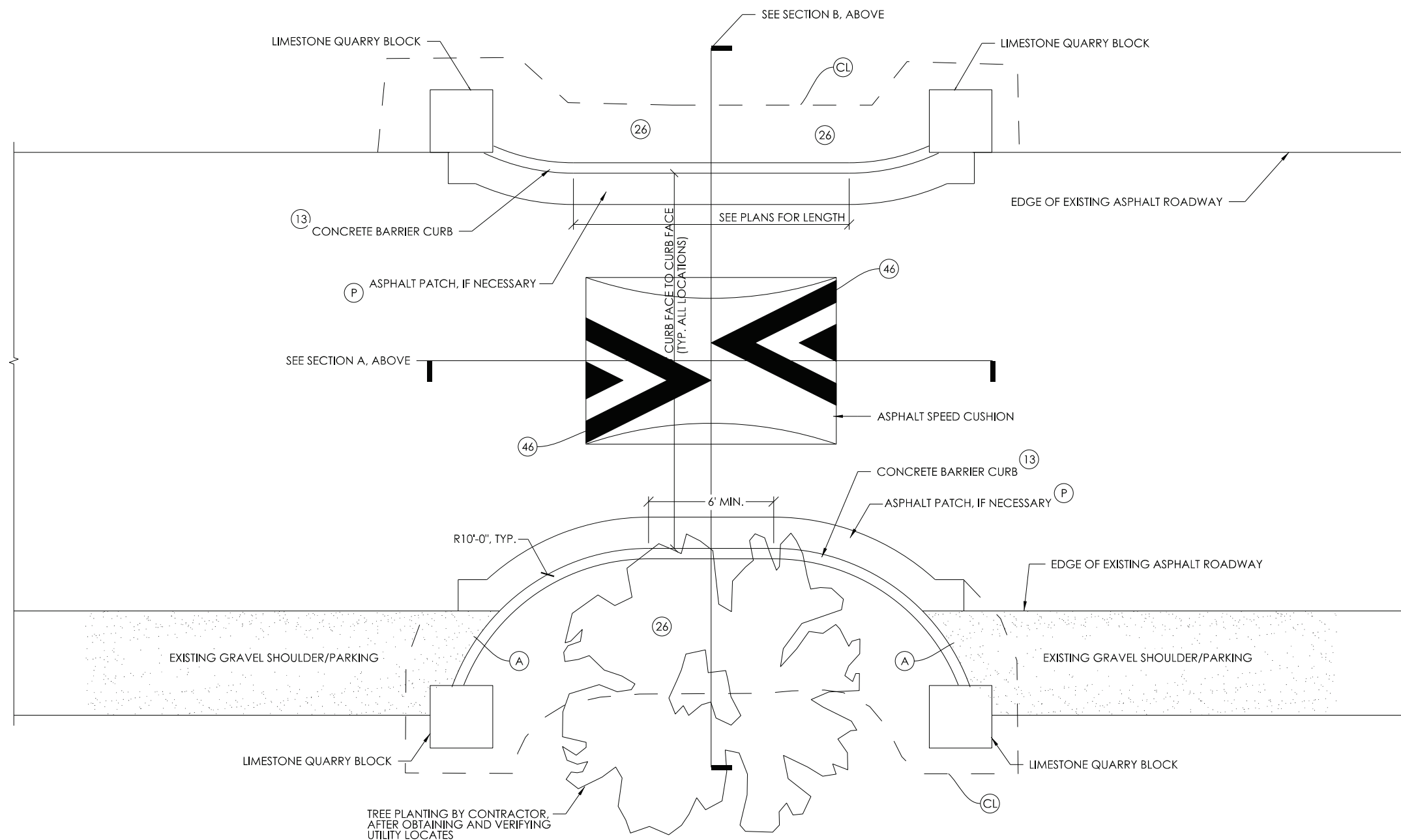
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NOT TO SCALE

**SC5 ASPHALT SPEED CUSHION FOR PARTIALLY CURBED ROADWAY - SECTION**  
NOT TO SCALE

**LIMESTONE BLOCK INFO:**  
LIMESTONE QUARRY BLOCKS MAY VARY IN SIZE WITHIN THE RANGES STIPULATED BELOW:  
1. LENGTH: 24" MIN. - 36" MAX.  
2. WIDTH: 24" MIN. - 30" MAX.  
3. HEIGHT: 24" MIN. - 30" MAX.  
NOTE THAT QUARRY BLOCK SHALL BE BURIED SO THAT THE EXPOSED HEIGHT ABOVE GRADE IS 18". MINIMUM BURIED DEPTH = 6"

**LIMESTONE BLOCK INFO:**  
LIMESTONE QUARRY BLOCKS MAY VARY IN SIZE WITHIN THE RANGES STIPULATED BELOW:  
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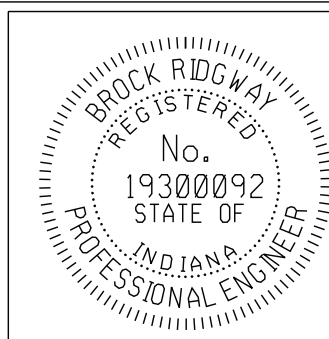
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1. LENGTH: 24" MIN. - 36" MAX.  
2. WIDTH: 24" MIN. - 30" MAX.  
3. HEIGHT: 24" MIN. - 30" MAX.  
NOTE THAT QUARRY BLOCK SHALL BE BURIED SO THAT THE EXPOSED HEIGHT ABOVE GRADE IS 18". MINIMUM BURIED DEPTH = 6"



**SC3 ASPHALT SPEED CUSHION FOR CURBLESS ROADWAY - PLAN WITH ONE SIDE WIDTH RESTRICTIONS**  
NOT TO SCALE

**SC4 ASPHALT SPEED CUSHION FOR CURBLESS ROADWAY - PLAN**  
NOT TO SCALE

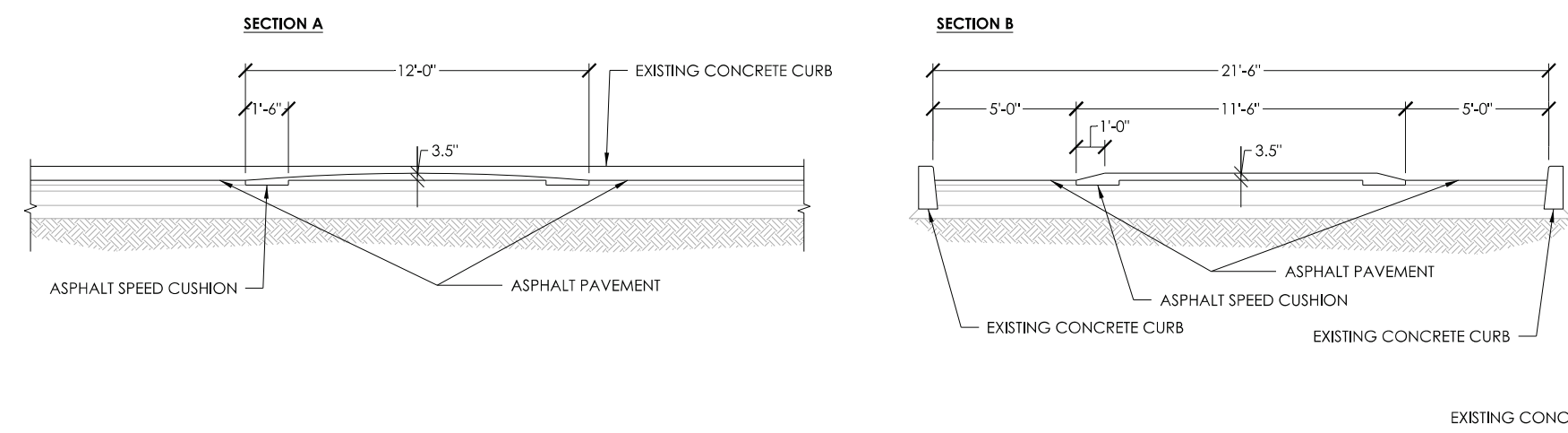
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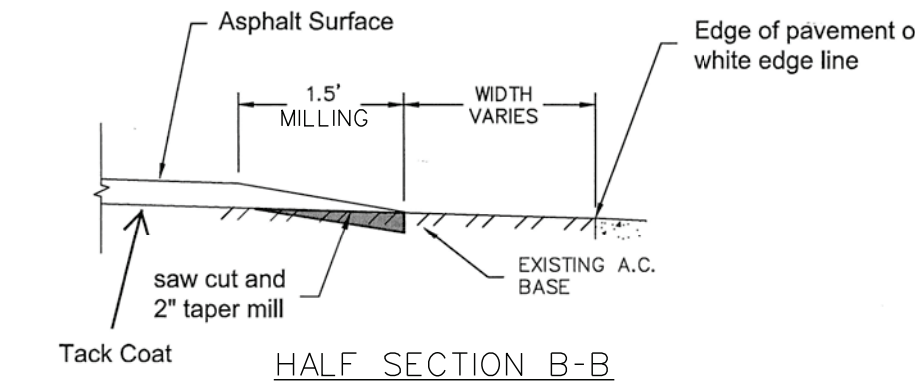
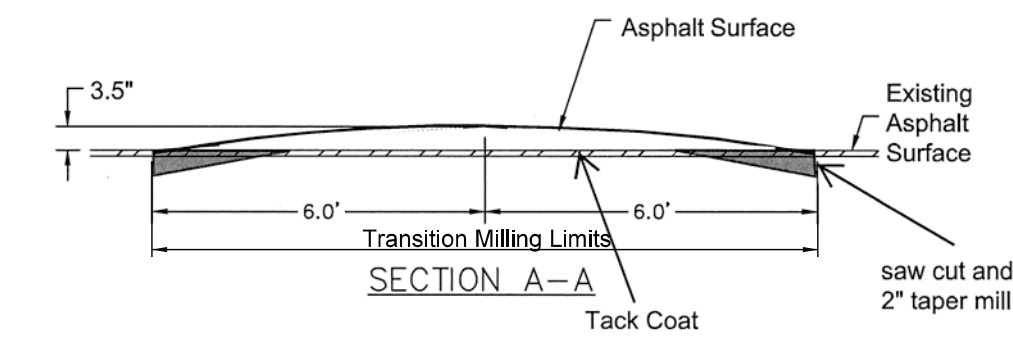
RECOMMENDED FOR APPROVAL *Robert Allen* 10-19-2022 DATE  
DESIGN ENGINEER  
DESIGNED: BR DRAWN: RBA  
CHECKED: MT CHECKED: BR

CITY OF BLOOMINGTON  
DEPARTMENT OF ENGINEERING  
GREENWAY TREATMENT DETAILS

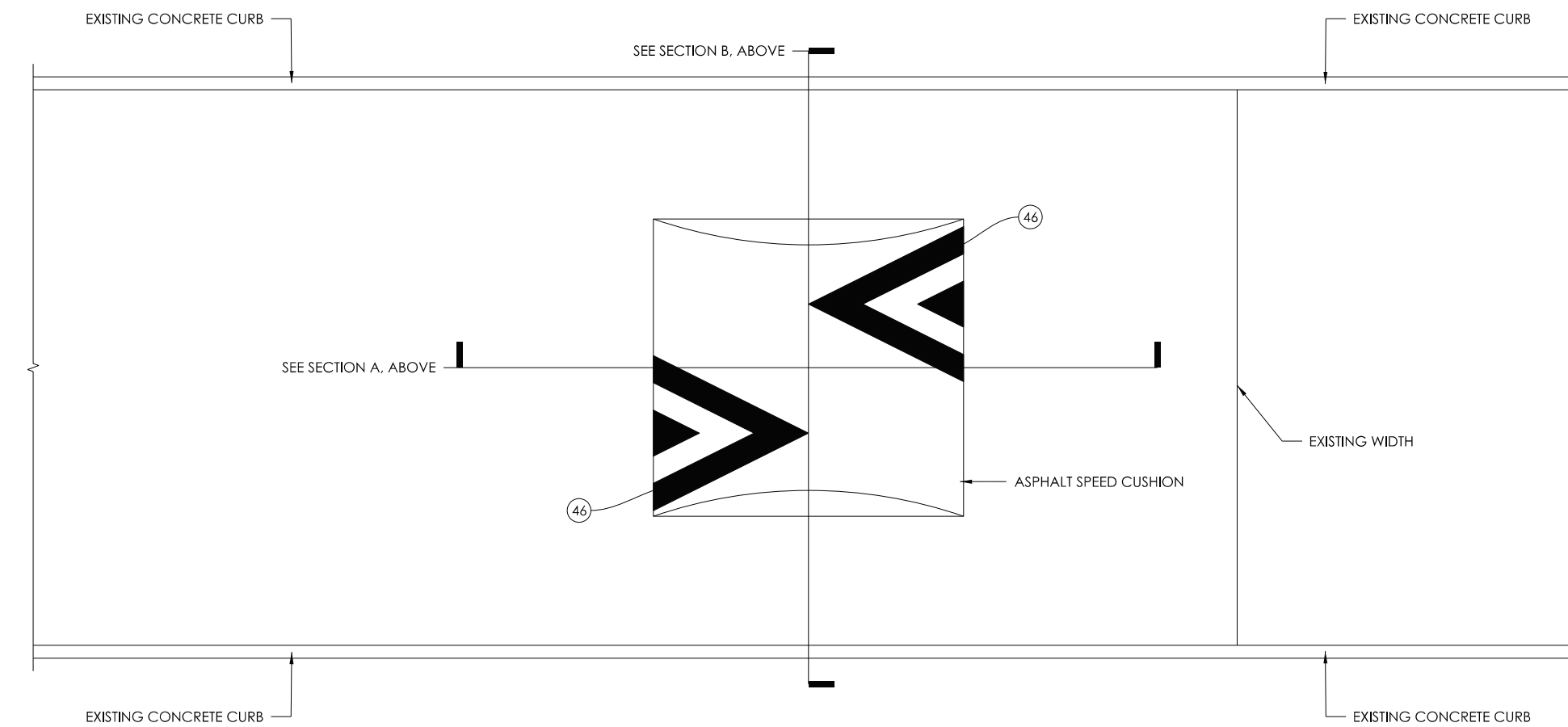
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VERTICAL SCALE	
	SHEET NUMBER
	3



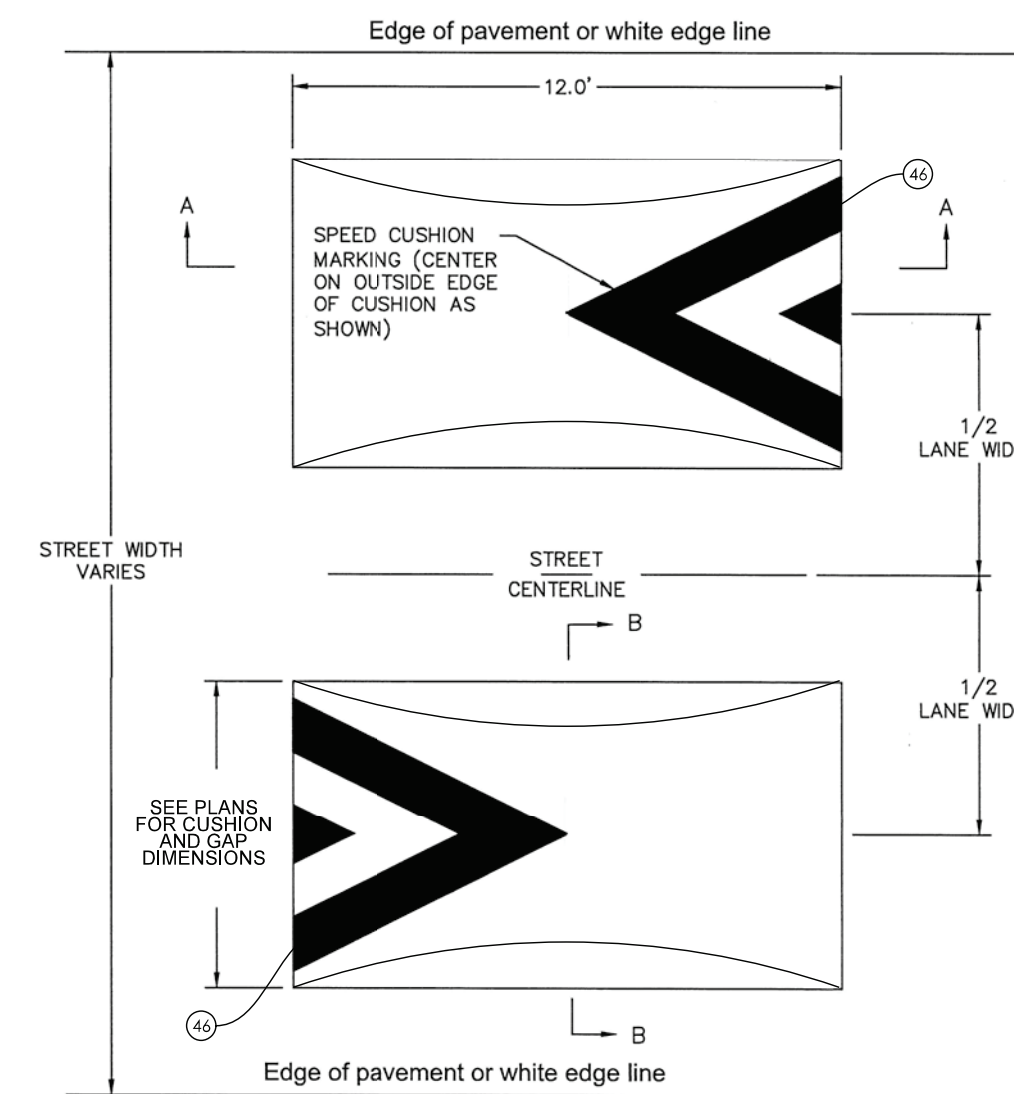
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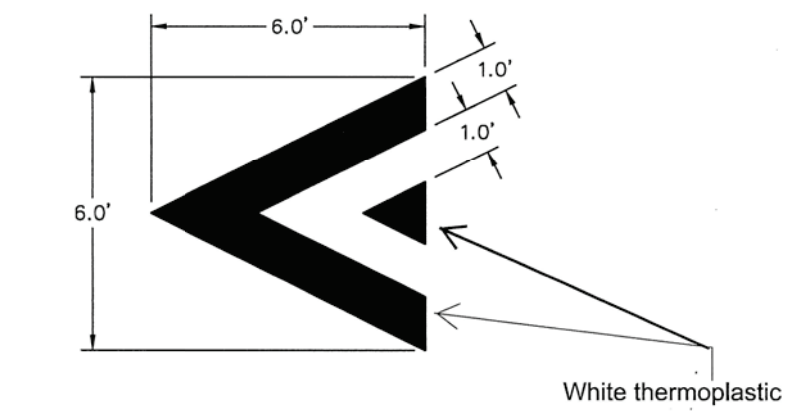
**SPEED CUSHION HEIGHT TOLERANCES**  
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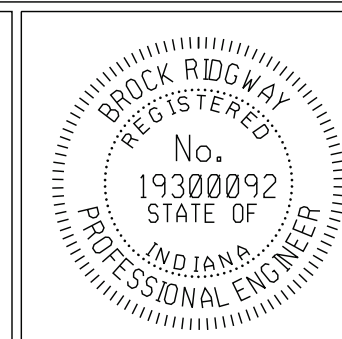
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NOT TO SCALE



**SC7 ASPHALT SPEED CUSHION FOR INSTALLATIONS WITHOUT BUMPOUTS - TWIN CUSHION INSTALLATION**  
NOT TO SCALE



**46 SPEED CUSHION MARKING**  
NOT TO SCALE



RECOMMENDED FOR APPROVAL	<i>B. Ridgway</i>	DESIGN ENGINEER	10-19-2022	DATE
DESIGNED:	BR	DRAWN:	RBA	
CHECKED:	MT	CHECKED:	BR	

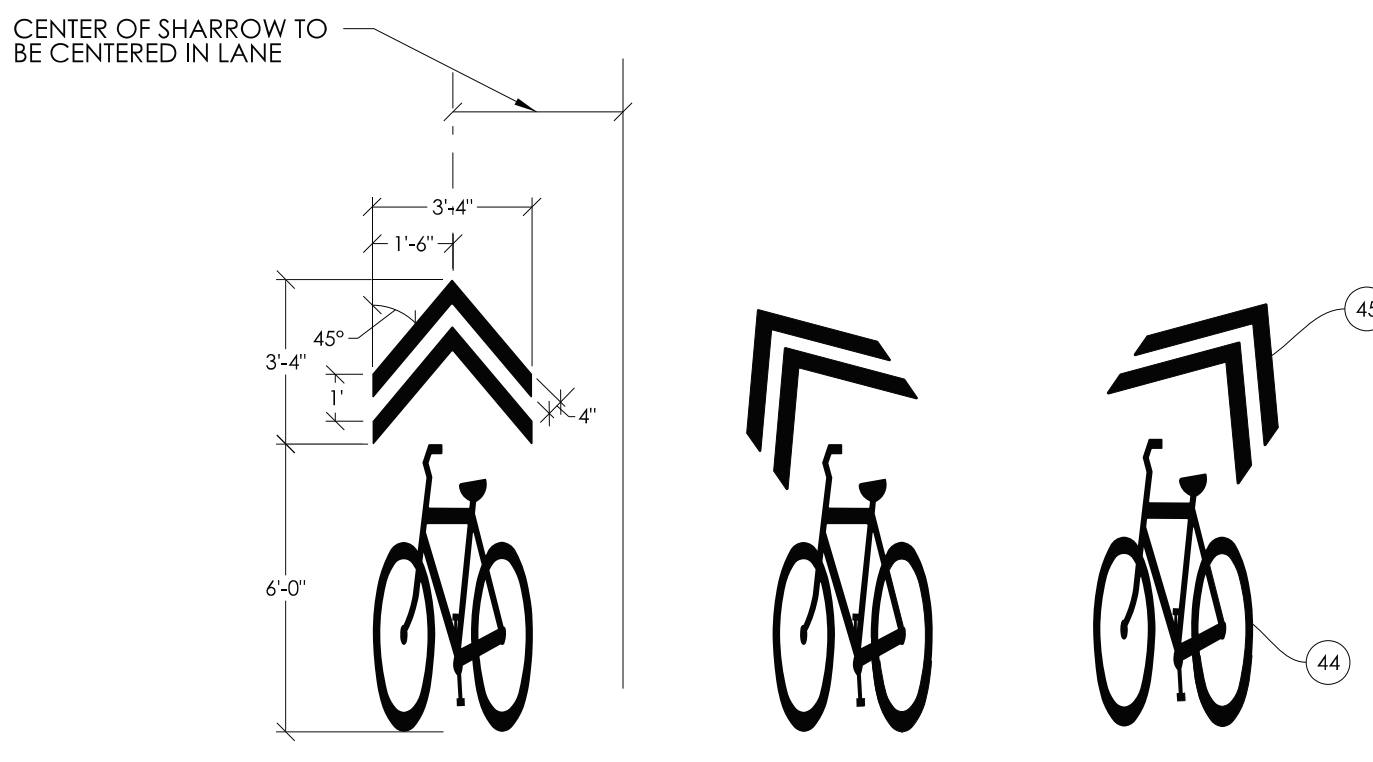
CITY OF BLOOMINGTON  
DEPARTMENT OF ENGINEERING

**GREENWAY TREATMENT DETAILS**

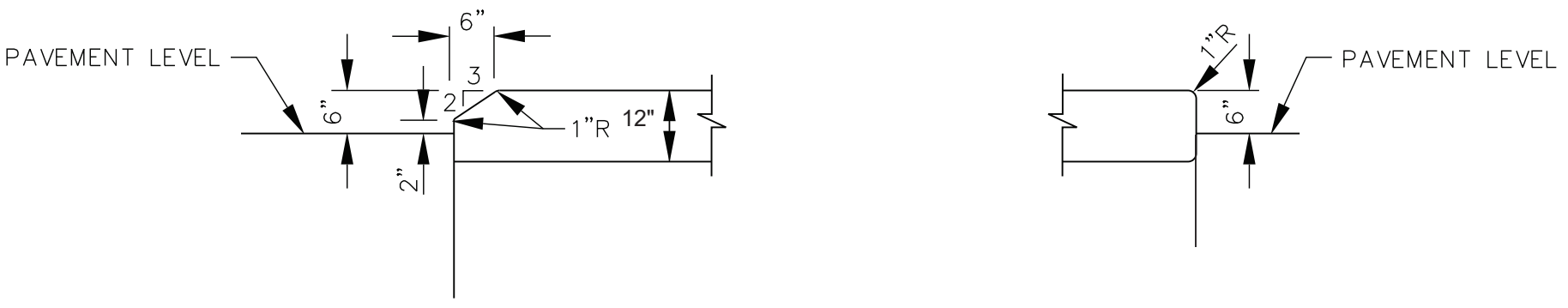
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VERTICAL SCALE	
	SHEET NUMBER
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SHEET SIGN SUMMARY TABLE																				
SIGN DATA																				
LOCATION				SIGN DESCRIPTION	SIGN CODE	SIGN SIZE (in. x in.)	RELOCATE EXISTING SIGN EACH	REMOVE SIGN (Pair as Clearing) EACH	NEW SIGN	ENCAPSULATED LENS METAL THICKNESS (in.)			SIGN POST			REMARKS				
BLOCK	NORTH	SOUTH	EAST							WEST	0.080	0.100	0.125	TYPE 1 2.25" x 2.25" x 12 ga. UNREINFORCED ANCHOR BASE			1	2	TOTAL	
														SFT	SFT					SFT
STREET GREENWAY PROJECT AREA																				
E of Patterson		X			SPEED HUMP	W17-1			1	6.25										
Raingarden 1 (716 Allen St)	X	X			15 MPH (Advisory Plaque)	W13-1P			1	2.25						Mount with Speed Hump				
Bumpout at 603 Allen St	X				SPEED HUMP	W17-1			1	6.25						Mount with Speed Hump				
W of Rogers	X	X			SPEED HUMP	W17-1			1	6.25						Mount with Speed Hump				
	X				15 MPH (Advisory Plaque)	W13-1P			1	2.25						Mount with Speed Hump				
	X				15 MPH (Advisory Plaque)	W13-1P			1	2.25						Mount with Speed Hump				
	X				Existing Speed Limit 25	Existing			1											
Rogers, north of crossing			X		Existing Yield Here for Pedestrians	Existing			1											
Rogers, at north crosswalk			X		Existing State Law Stop for Pedestrians	R1-6a			1							Also Paint existing Yield Markings Black				
Rogers, at north crosswalk				X	STATE LAW - YIELD TO PEDESTRIANS	R1-6			1	3.00						Place on existing post in center of median island				
Center of Rogers, Center median					Existing Right Only and Except Bicycles	Existing			4							Reset to center of Median				
Center of Rogers, South median					Existing Keep Right and No Left Turn	Existing			2							Reset to center of Median				
Rogers, south of crossings	X				Existing Yield Here for Pedestrians	Existing			1							Also Paint existing Yield Markings Black				
Rogers, at south crosswalk	X	X			Existing State Law Stop for Pedestrians	R1-6a			1							Also Paint existing Yield Markings Black				
Rogers, at south crosswalk				X	STATE LAW - YIELD TO PEDESTRIANS	R1-6			1	3.00						Place on new post in center of median island with relocated signs				
East of Rogers at cushion	X				SPEED HUMP	W17-1			1	6.25						Mount with Speed Hump				
On Madison north of Allen		X			15 MPH (Advisory Plaque)	W13-1P			1	2.25						Mount with Speed Hump				
On Morton, 65' south of Alley		X			SPEED HUMP	W17-1			1	6.25						Mount with Speed Hump				
On Morton, north of Allen			X		15 MPH (Advisory Plaque)	W13-1P			1	2.25						Mount with Speed Hump				
At B Line and Allen	X			X	SPEED HUMP	W17-1			1	6.25						With new speed cushion				
At B Line and Allen	X	X			Existing Stop	Existing			1							Reset Stop sign to new stop bar location				
At B Line and Allen	X	X			Existing Trail Signs Stop and Cross Traffic	Existing			4							Leave decorative posts in place				
<b>TOTALS</b>									<b>7</b>	<b>10</b>						<b>132</b>				
<b>PAY UNIT</b>									<b>EACH</b>	<b>EACH</b>						<b>LFT</b>				

NOTE: PAVEMENT MARKINGS AND SIGNS SHALL BE INSTALLED BEFORE OPENING ANY LANE TO TRAFFIC THAT IS OCCUPIED BY A SPEED CUSHION. TEMPORARY MARKINGS MAY BE USED UP TO TWO WEEKS IN LIEU OF PERMANENT MARKINGS. NO ADDITIONAL PAYMENT WILL BE MADE FOR TEMPORARY MARKINGS.



44 SHARED LANE MARKINGS AND CHEVRON DIMENSIONS  
NOT TO SCALE

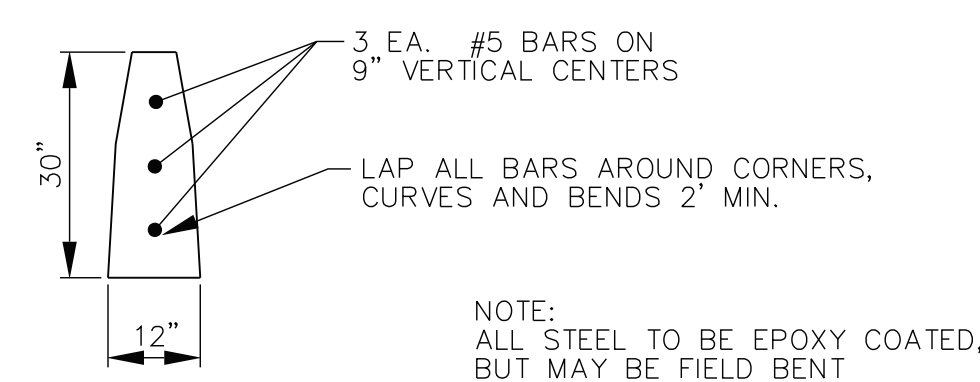


12 MOUNTABLE PROFILE  
NOT TO SCALE

13 VERTICAL PROFILE  
NOT TO SCALE

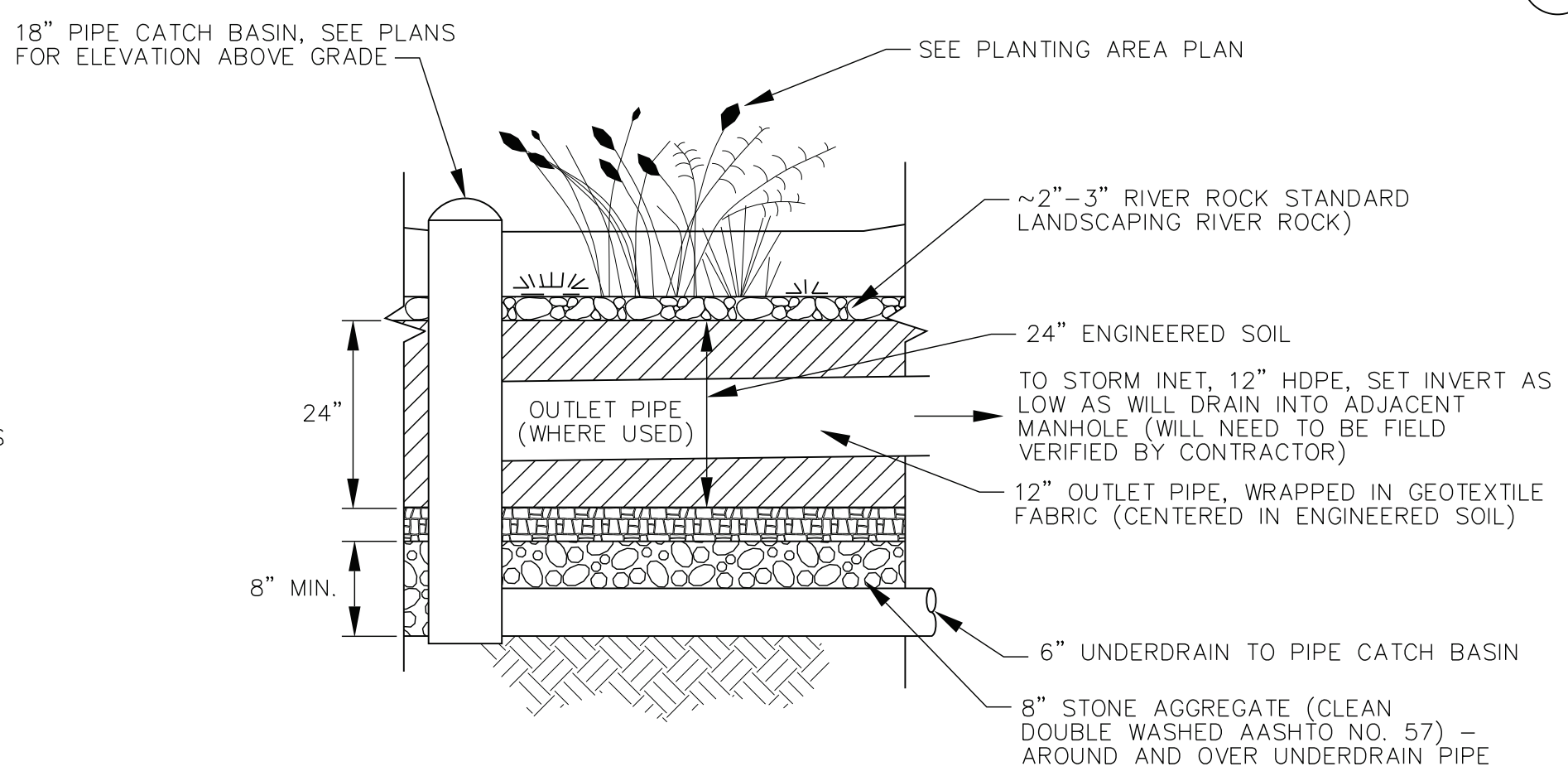
CONCRETE CENTER CURB  
NOT TO SCALE

WHERE NEXT TO CENTER CURB, CURB IS PAID AS PART OF MODIFIED CENTER CURB, B, REGARDLESS OF WHICH PROFILE IS TO BE CONSTRUCTED



14 REINFORCED CONCRETE CURB FOR RAINGARDENS  
NOT TO SCALE

NOTE: ALL STEEL TO BE EPOXY COATED, BUT MAY BE FIELD BENT



13 P PAVEMENT PATCH / CONCRETE CURB (VERTICAL)  
NOT TO SCALE

- NOTES:
- AREA BEHIND CURBS TO RECEIVE TREATMENT AS SHOWN ON PLANS.
  - REFER TO CURB JOINTS NOTES FOR CURB JOINTING.
  - PAVEMENT PATCHING MAY NOT BE REQUIRED IF EXISTING PAVEMENT CAN BE REMOVED TO A CLEAN AND STRAIGHT EDGE AT FRONT OF PROPOSED CURB OR GUTTER. OWNER APPROVAL IS REQUIRED.
  - PAVEMENT PATCHING REQUIRED WHEREVER PAVEMENT IS CUT, AND WHERE EXISTING PAVEMENT IS DAMAGED TO COMPLETE THE REQUIRED CURB, DRIVE OR SIDEWALK WORK.
  - CONTRACTOR SHALL ASSUME THEY ARE TO PLACE THE ASPHALT OVERLAY ON ALL PATCHED AREAS UNLESS OTHERWISE DIRECTED.
  - PATCHING PORTION OF THIS DETAIL TO ALSO BE USED WITH 14 REINFORCED CONCRETE CURB FOR RAINGARDENS.
  - CURB HEIGHT VARIES, CHECK PLANS FOR VARIATIONS FROM 6", OTHER TYPICAL HEIGHT IS 6".

ENGINEERED SOIL SPECIFICATION  
ENGINEERED SOIL MIX SHALL BE 24" DEEP. BIORETENTION SOIL SHALL BE PROVIDED IN ACCORDANCE WITH APPENDIX F OF THE CITY OF BLOOMINGTON RAINWATER MANAGEMENT GUIDE - SHOULD GENERALLY BE LOAMY SAND WITH THE FOLLOWING COMPOSITION: 85% TO 88% WASHED, COARSE SAND, 8% TO 12% SOIL FINES AND 3% TO 5% ORGANIC MATTER FROM PINE BARK, WITH A P-INDEX BETWEEN 10 AND 30. A MINIMUM INFILTRATION RATE OF 0.5 INCHES PER HOUR, AND A CLAY CONTENT OF LESS THAN 6%. THE MIXTURE SHALL BE WELL BLENDED TO PRODUCE A HOMOGENEOUS MIX. THE FINAL MIX TO BE DETERMINED BY THE ENGINEER BASED ON SAMPLES AND TEST RESULTS SUBMITTED.

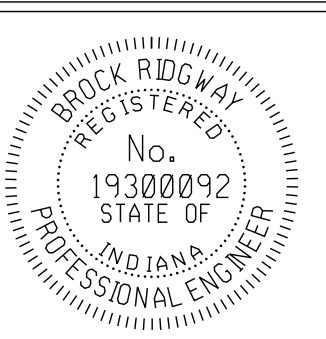
RAINGARDEN SECTION FOR LOCATIONS WITH UNDERDRAIN AND OVERFLOW TO STORM SEWER  
NOT TO SCALE

NOTE: PIPE CATCH BASIN (OVERFLOW STRUCTURE) TO RECEIVE WATER FROM UNDERDRAIN PIPES, BUT THE OUTLET PIPE TO THE STORM SYSTEM SHALL BE FIELD DETERMINED TO FLOW TO ADJACENT MANHOLE. IT MAY BE HIGHER THAN UNDERDRAINS SUCH THAT THE UNDERDRAINS ARE FULL PRIOR TO SURCHARGING INTO MANHOLE.

RAINGARDEN NOTES:

- RAINGARDENS WITHOUT UNDERDRAINS OR OVERFLOW STRUCTURES SHALL INCLUDE ONLY THE 24" ENGINEERED SOIL OVERTOPPED WITH A WEED PREVENTATIVE GEOFABRIC AND 2"-3" OF RIVERROCK COVER.
- GEOFABRIC TO BE CUT OUT FOR PLANTINGS.
- RIPRAP-RIVER ROCK AT ENTRY AND EXIT POINTS SHALL BE LARGER AGGREGATE THAN LANDSCAPING RIVER ROCK BUT OF SAME COLORS AND SHAPE (COBBLE STONES, ETC.)
- RIVER ROCK AND RIPRAP-RIVER ROCK TO BE APPROVED IN ADVANCE BY ENGINEER.
- EACH END OF UNDERDRAINS SHALL HAVE A VERTICAL CLEANOUT WITH CAP EXTENDED ABOVE GRADE.

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RECOMMENDED FOR APPROVAL	<i>Bridgway</i>	DESIGN ENGINEER	10-19-2022	DATE
DESIGNED:	BR	DRAWN:	RBA	
CHECKED:	MT	CHECKED:	BR	

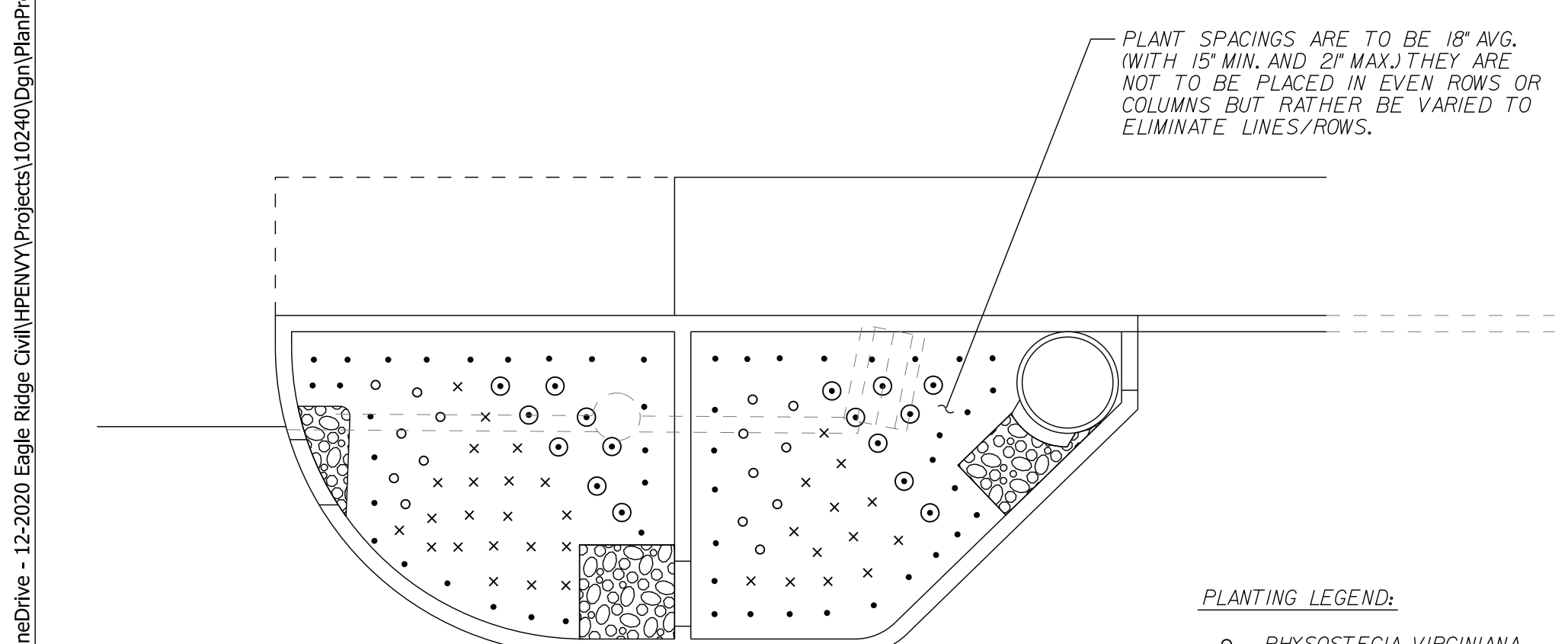
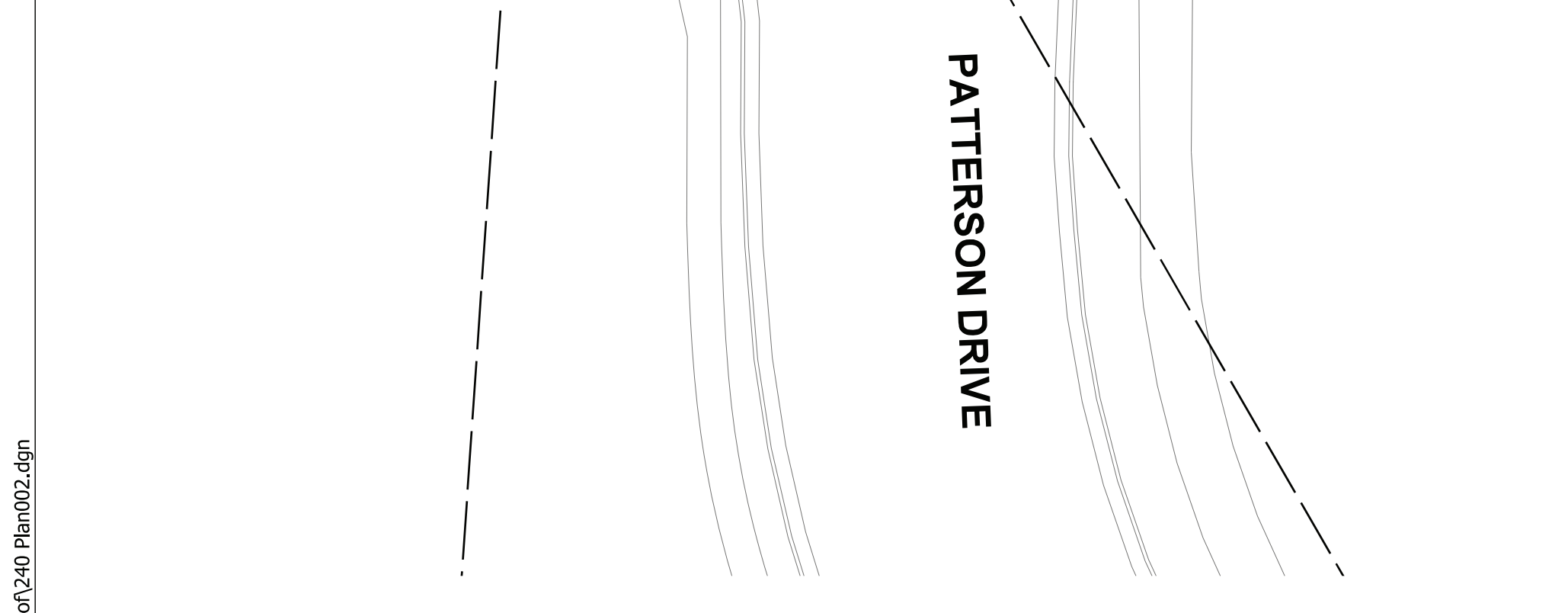
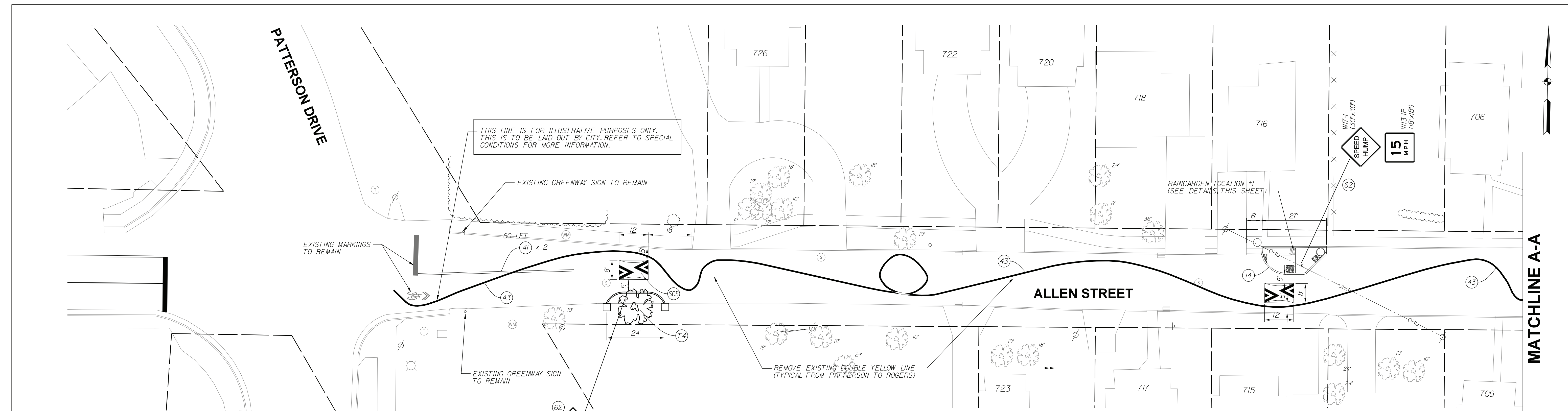
CITY OF BLOOMINGTON  
DEPARTMENT OF ENGINEERING

MISCELLANEOUS DETAILS

HORIZONTAL SCALE	AS NOTED	ERCES PROJECT NUMBER	240
VERTICAL SCALE			
		SHEET NUMBER	5







**PLANTING PLAN RAINGARDEN #1**  
NOT TO SCALE

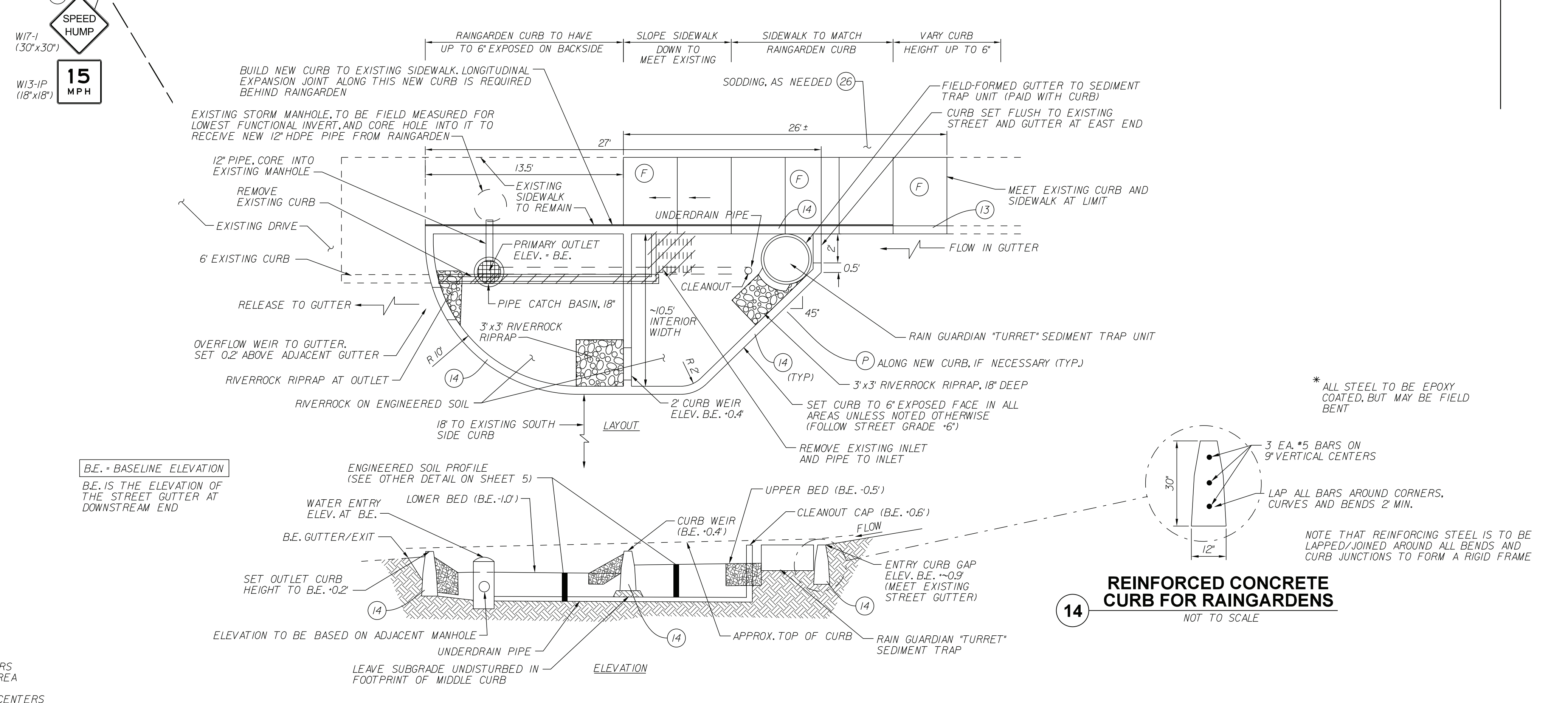
NOTE:  
ADJUST PLANTS AS NECESSARY TO ACCOMMODATE  
FINAL LOCATION OF THE PIPE CATCH BASIN.

**PLANTING LEGEND:**

- PHYSOSTEGIA VIRGINIANA
- × ASCLEPIAS INCARNATA
- CAREX FRANKII ON 18" CENTERS  
ALONG EDGE OF BEDDING AREA
- ⊙ IRIS VIRGINICA SHREYIA ~18" CENTERS

**LEGEND:**

- 13 CONCRETE CURB
- 14 REINFORCED CONCRETE CURB
- 26 NURSERY SODDED AREA - INCLUDED UP TO  
6" TOPSOIL UNLESS OTHERWISE NOTED  
4" YELLOW, SOLID LINE, THERMOPLASTIC
- 43 4" GREENWAY RIBBON MARKING, THERMOPLASTIC
- 62 NEW SIGN ON TYPE I POST WITH UNREINFORCED ANCHOR BASE
- F CONCRETE SIDEWALK, 4" ON  
4" COMPACTED AGGREGATE
- P PCCP FOR PATCHING, 12" WITH 1.5" HMA OVERLAY



**RAINGARDEN #1**  
1" = 4'-0"

**REINFORCED CONCRETE CURB FOR RAINGARDENS**  
NOT TO SCALE

\* ALL STEEL TO BE EPOXY COATED, BUT MAY BE FIELD BENT

NOTE THAT REINFORCING STEEL IS TO BE LAPPED/JOINED AROUND ALL BENDS AND CURB JUNCTIONS TO FORM A RIGID FRAME

**CITY OF BLOOMINGTON**  
**DEPARTMENT OF ENGINEERING**

**NEIGHBORHOOD GREENWAY PLANS**  
**ALLEN STREET**

HORIZONTAL SCALE  
1" = 20'-0"

VERTICAL SCALE

ERCS PROJECT NUMBER  
240

SHEET NUMBER  
7

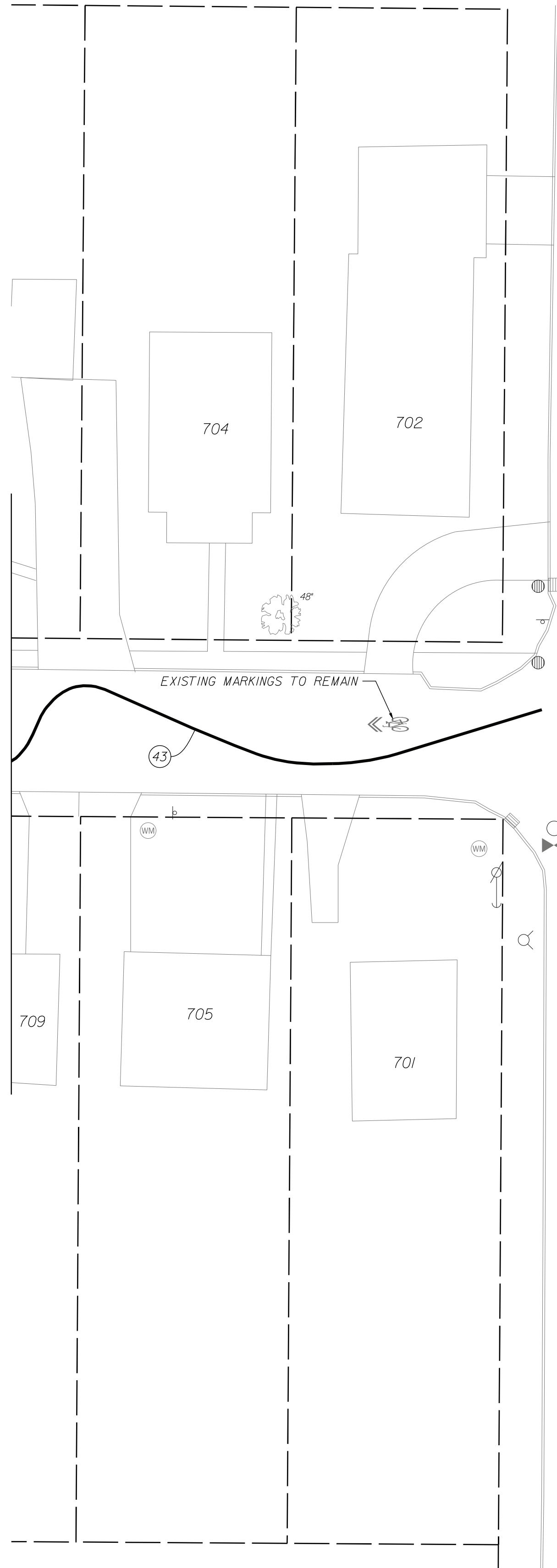
RECOMMENDED FOR APPROVAL  
DESIGN ENGINEER  
10-19-2022 DATE

DESIGNED: BR DRAWN: RBA  
CHECKED: MT CHECKED: BR

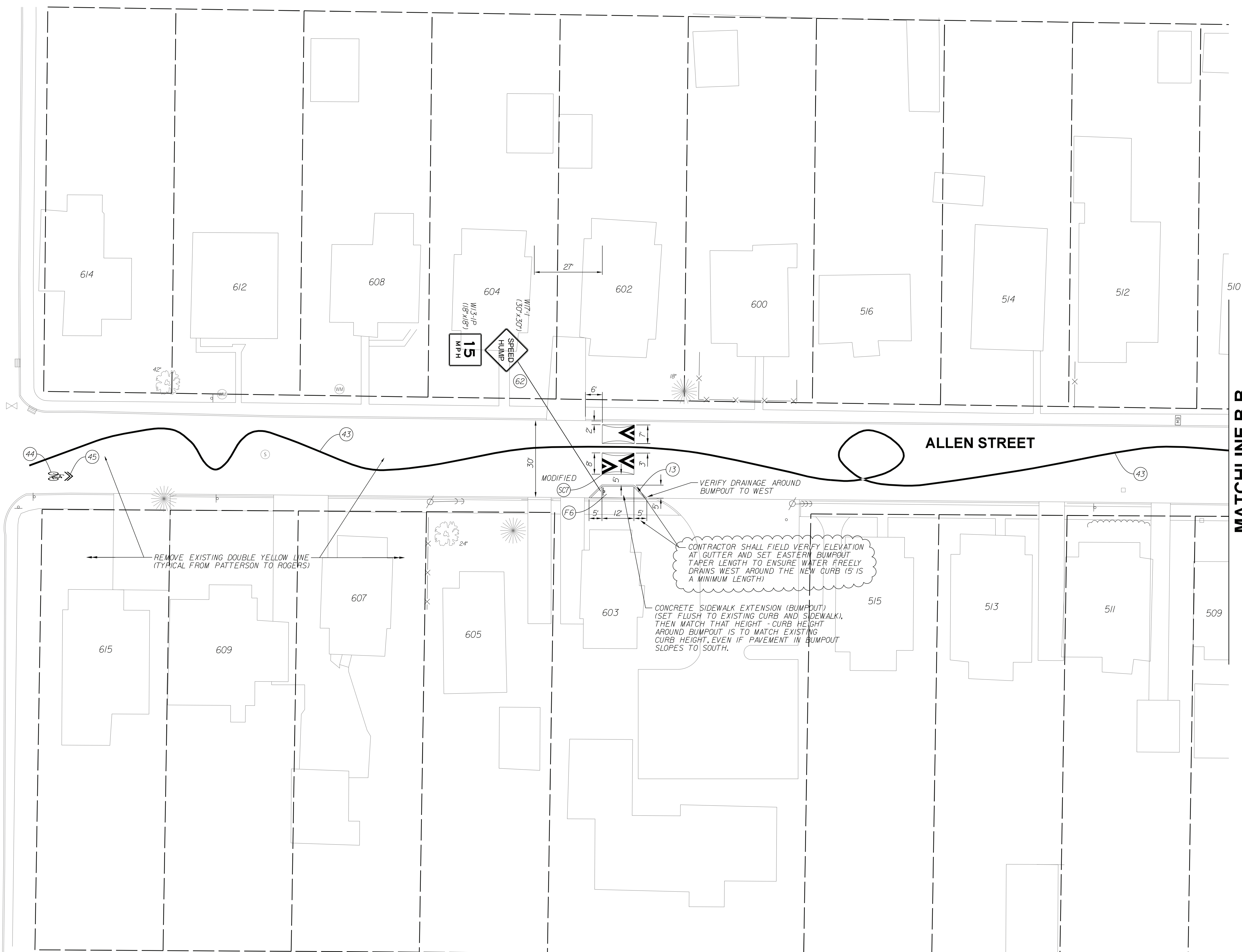
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MATCHLINE A-A



FAIRVIEW STREET

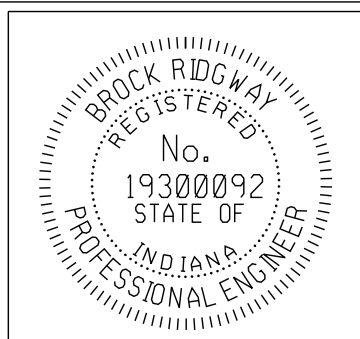


MATCHLINE B-B



**LEGEND:**

- (13) CONCRETE CURB
- (43) 4" GREENWAY RIBBON MARKING, THERMOPLASTIC
- (44) BIKE SYMBOLS, THERMOPLASTIC
- (45) WHITE CHEVRONS (FOR BIKE ROUTE), THERMOPLASTIC
- (F6) CONCRETE SIDEWALK, 6' ON 4" COMPACTED AGGREGATE
- (62) NEW SIGN ON TYPE I POST WITH UNREINFORCED ANCHOR BASE

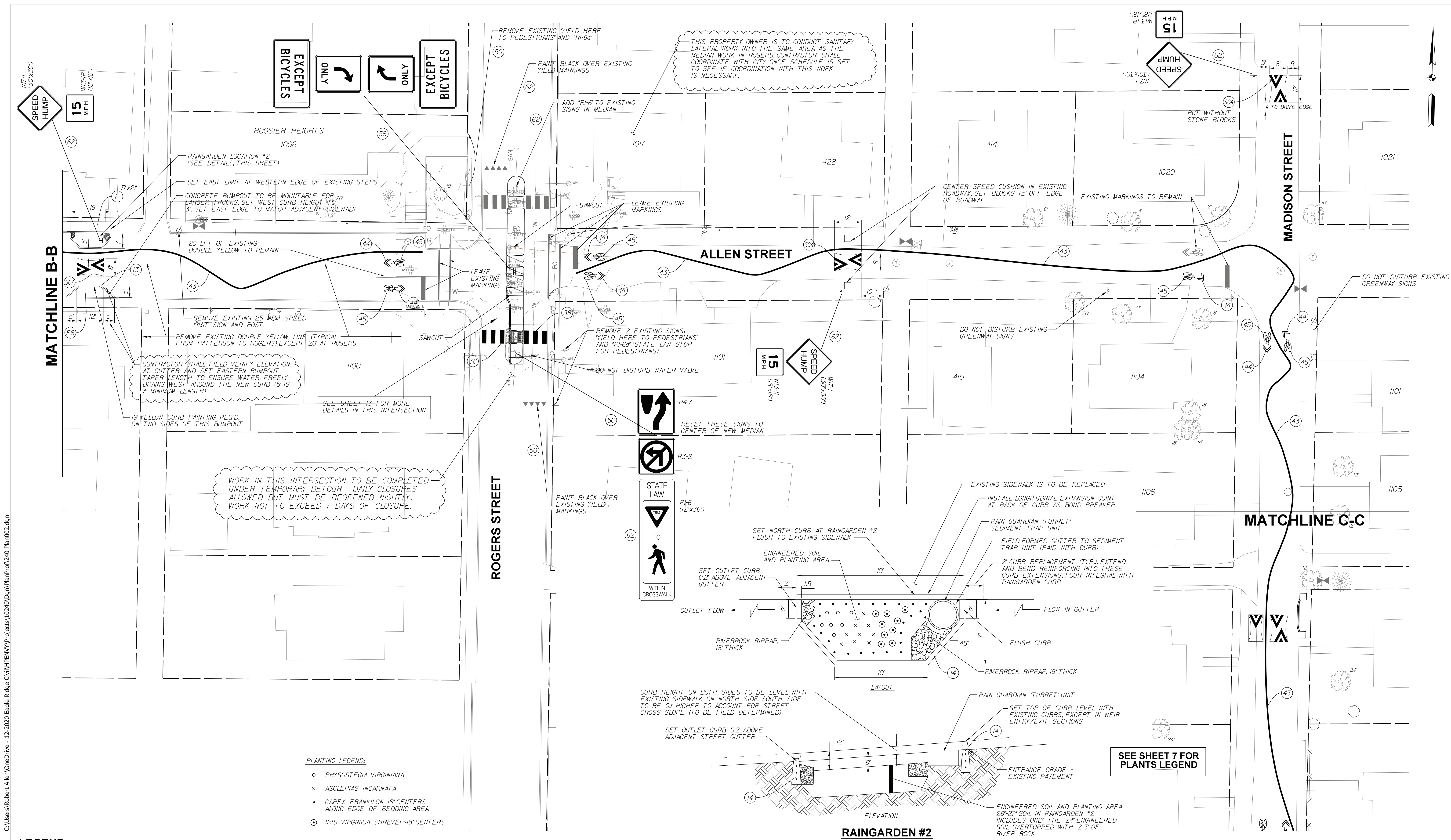


RECOMMENDED FOR APPROVAL	<i>B. Ridgway</i>	DESIGN ENGINEER	10-19-2022	DATE
DESIGNED:	BR	DRAWN:	RBA	
CHECKED:	MT	CHECKED:	BR	

**CITY OF BLOOMINGTON  
DEPARTMENT OF ENGINEERING**

**NEIGHBORHOOD GREENWAY PLANS  
ALLEN STREET**

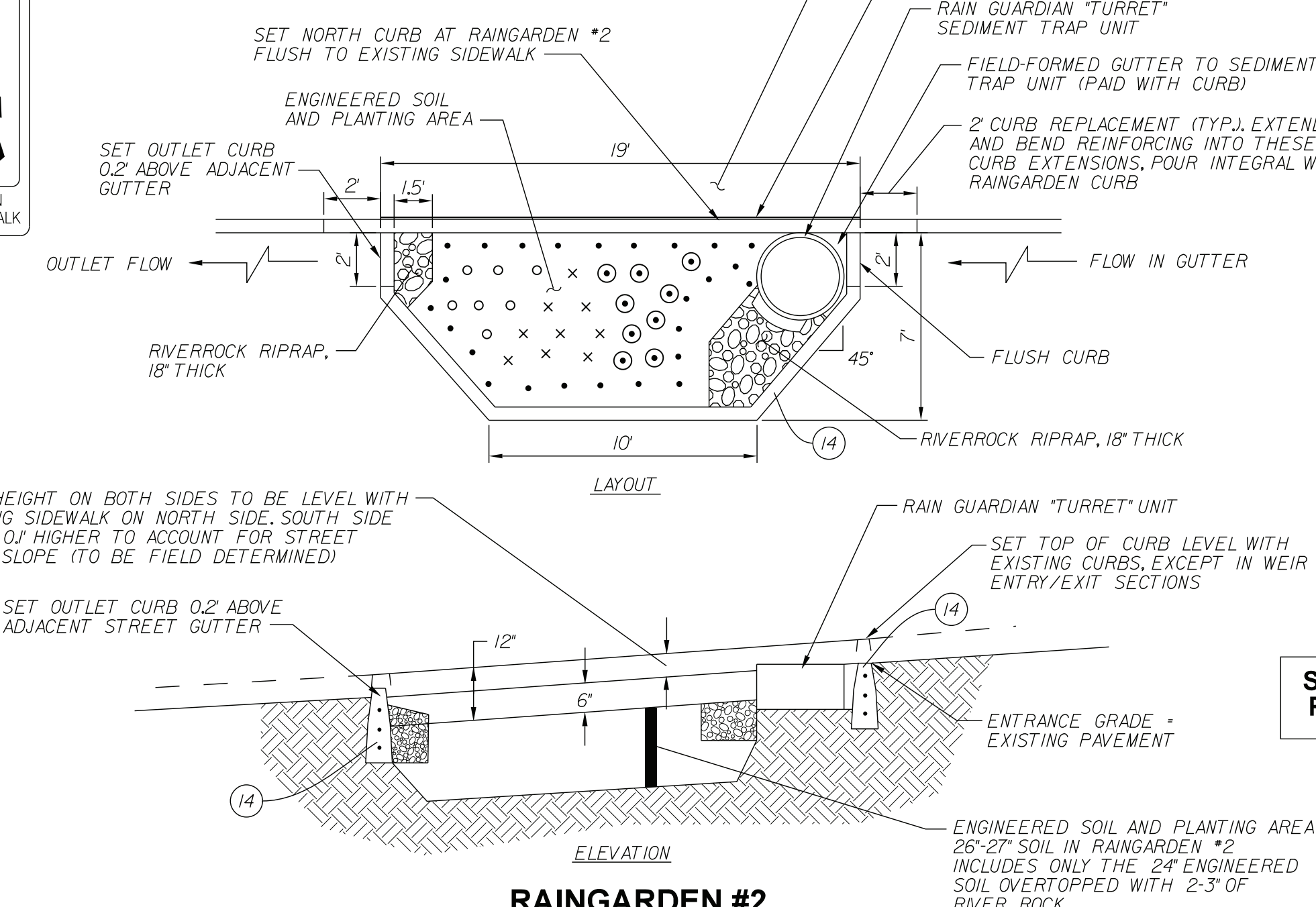
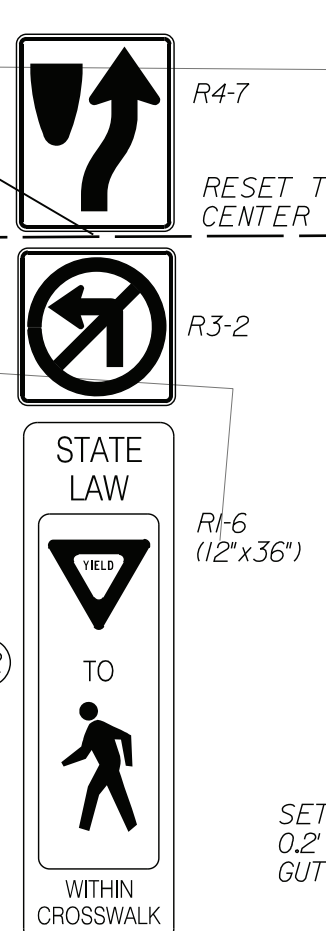
HORIZONTAL SCALE	1" = 20'-0"	ERCES PROJECT NUMBER	240
VERTICAL SCALE		SHEET NUMBER	8



CONTRACTOR SHALL FIELD VERIFY ELEVATION AT GUTTER AND SET EASTERN BUMPOUT TAPER LENGTH TO ENSURE WATER FREELY DRAINS WEST AROUND THE NEW CURB (5 IS A MINIMUM LENGTH)

WORK IN THIS INTERSECTION TO BE COMPLETED UNDER TEMPORARY DETOUR - DAILY CLOSURES ALLOWED BUT MUST BE REOPENED NIGHTLY. WORK NOT TO EXCEED 7 DAYS OF CLOSURE.

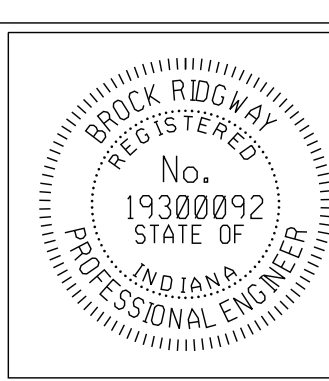
THIS PROPERTY OWNER IS TO CONDUCT SANITARY LATERAL WORK INTO THE SAME AREA AS THE MEDIAN WORK IN ROGERS. CONTRACTOR SHALL COORDINATE WITH CITY ONCE SCHEDULE IS SET TO SEE IF COORDINATION WITH THIS WORK IS NECESSARY.



- PLANTING LEGEND:**
- PHYSOSTEGIA VIRGINIANA
  - × ASCLEPIAS INCARNATA
  - CAREX FRANKII ON 18" CENTERS ALONG EDGE OF BEDDING AREA
  - ⊙ IRIS VIRGINICA SHREVEI ~18" CENTERS

**LEGEND:**

(13) CONCRETE CURB	(41) 4" YELLOW, SOLID LINE, THERMOPLASTIC	(56) RESET EXISTING SIGN ON NEW TYPE I POST WITH UNREINFORCED ANCHOR BASE
(14) REINFORCED CONCRETE CURB	(43) 4" GREENWAY RIBBON MARKING, THERMOPLASTIC	(62) NEW SIGN ON TYPE I POST WITH UNREINFORCED ANCHOR BASE
(26) NURSERY SODDED AREA - INCLUDED UP TO 6" TOPSOIL UNLESS OTHERWISE NOTED	(44) BIKE SYMBOLS, THERMOPLASTIC	(F) CONCRETE SIDEWALK, 4" ON 4" COMPACTED AGGREGATE
(38) 24" WHITE LINES FOR CROSSWALKS OR STOP BARS, THERMOPLASTIC	(45) WHITE CHEVRONS (FOR BIKE ROUTE), THERMOPLASTIC	(P) PCCP FOR PATCHING, 12" WITH 15" HMA OVERLAY
	(50) REMOVE EXISTING SIGN AND POST	



RECOMMENDED FOR APPROVAL	<i>Bridgway</i>	DESIGN ENGINEER	10-19-2022	DATE
DESIGNED:	BR	DRAWN:	RBA	
CHECKED:	MT	CHECKED:	BR	

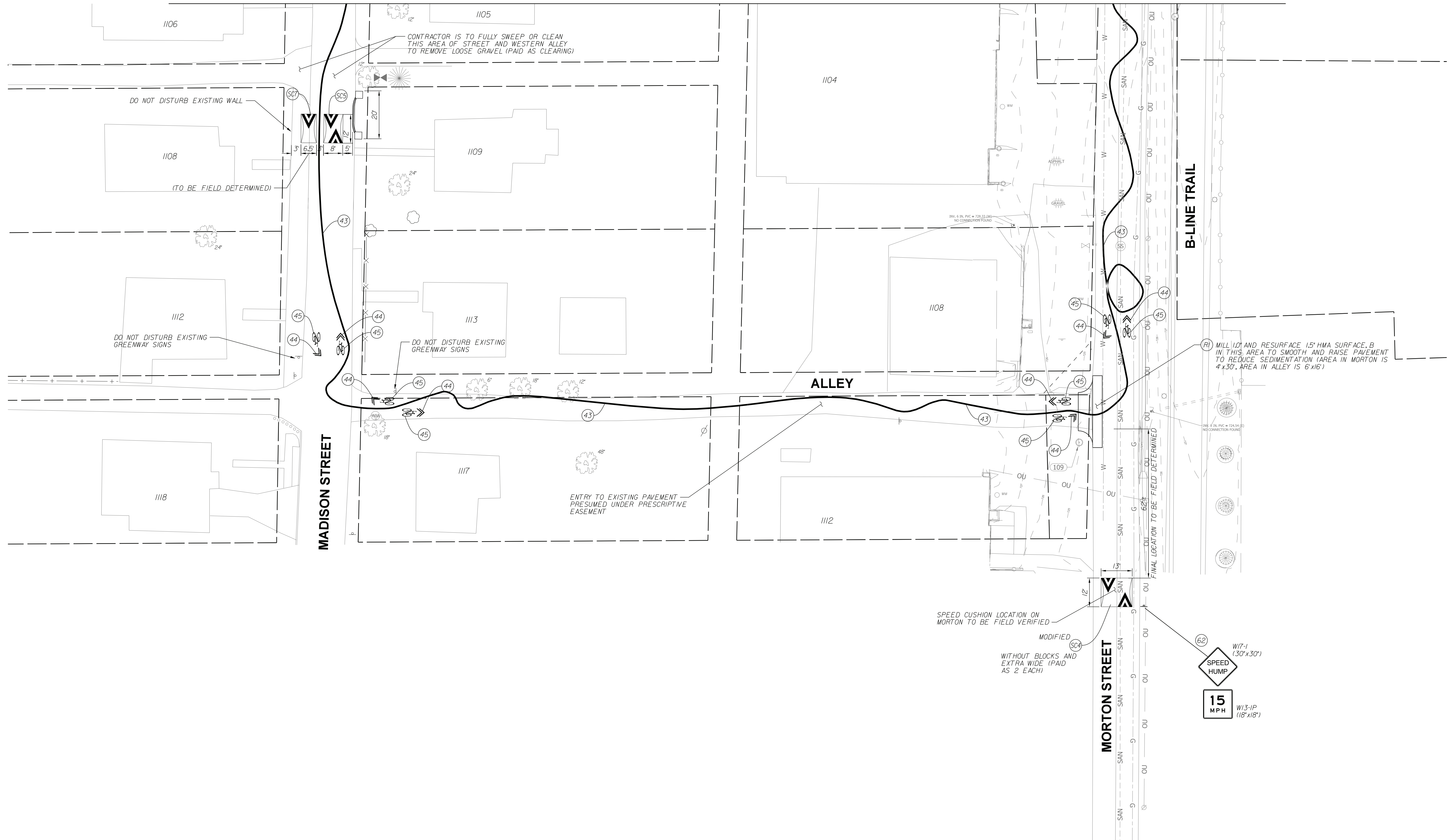
CITY OF BLOOMINGTON  
DEPARTMENT OF ENGINEERING

**NEIGHBORHOOD GREENWAY PLANS  
ALLEN STREET**

HORIZONTAL SCALE	1" = 20'-0"	ERCES PROJECT NUMBER	240
VERTICAL SCALE		SHEET NUMBER	9

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MATCHLINE C-C



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LEGEND:

- 43 4" GREENWAY RIBBON MARKING, THERMOPLASTIC
- 44 BIKE SYMBOLS, THERMOPLASTIC
- 45 WHITE CHEVRONS (FOR BIKE ROUTE), THERMOPLASTIC
- 62 NEW SIGN ON TYPE I POST WITH UNREINFORCED ANCHOR BASE



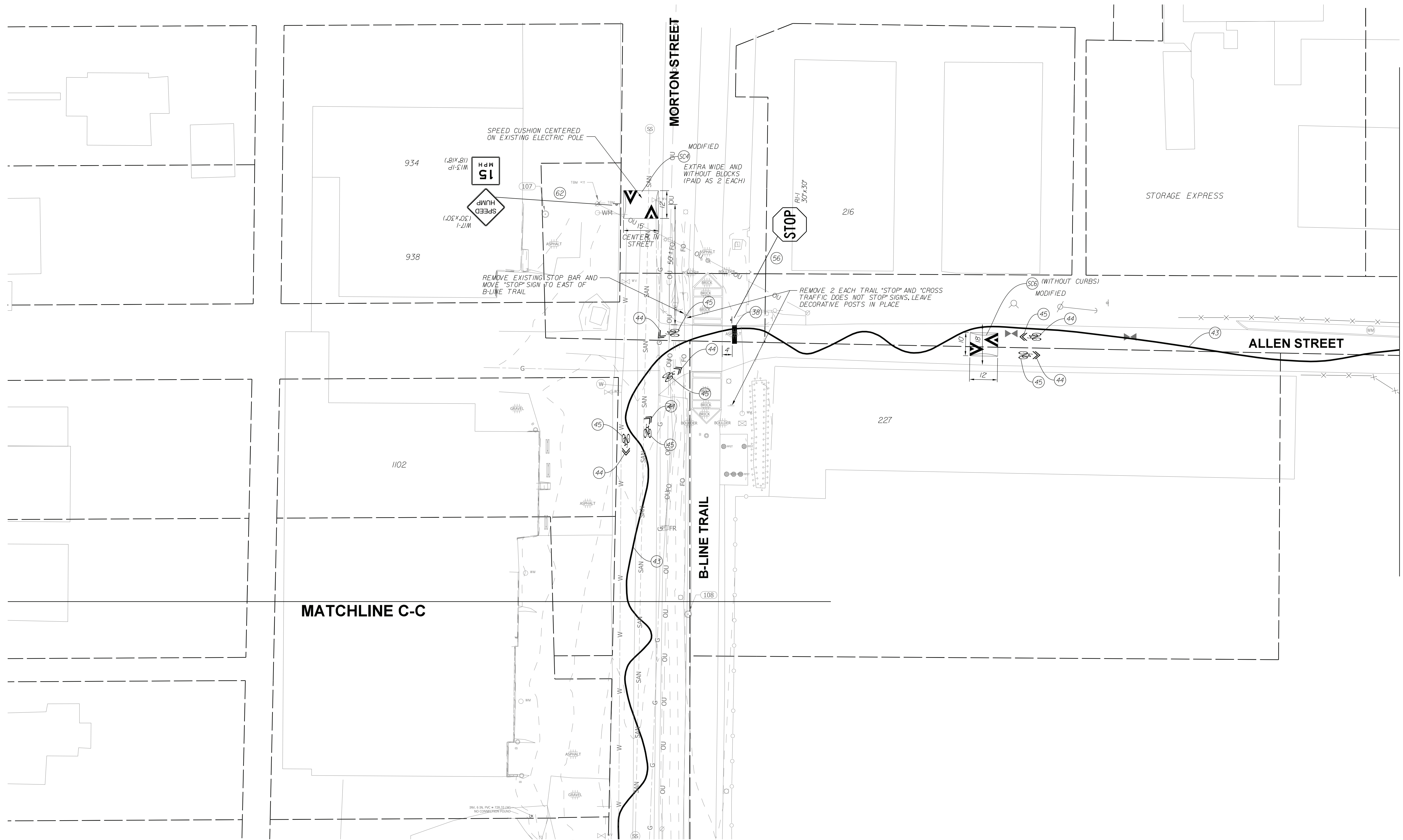
RECOMMENDED FOR APPROVAL	<i>B. Ridgway</i>	DESIGN ENGINEER	10-19-2022
DESIGNED:	BR	DRAWN:	RBA
CHECKED:	MT	CHECKED:	BR

CITY OF BLOOMINGTON  
DEPARTMENT OF ENGINEERING

NEIGHBORHOOD GREENWAY PLANS  
ALLEN STREET

HORIZONTAL SCALE	1" = 20'-0"	ERCES PROJECT NUMBER	240
VERTICAL SCALE		SHEET NUMBER	10

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**LEGEND:**

- 38 24" WHITE LINES FOR CROSSWALKS OR STOP BARS, THERMOPLASTIC
- 43 4" GREENWAY RIBBON MARKING, THERMOPLASTIC
- 44 BIKE SYMBOLS, THERMOPLASTIC
- 45 WHITE CHEVRONS (FOR BIKE ROUTE), THERMOPLASTIC
- 62 NEW SIGN ON TYPE I POST WITH UNREINFORCED ANCHOR BASE



RECOMMENDED FOR APPROVAL	<i>B. Ridgway</i>	DESIGN ENGINEER	10-19-2022	DATE
DESIGNED:	BR	DRAWN:	RBA	
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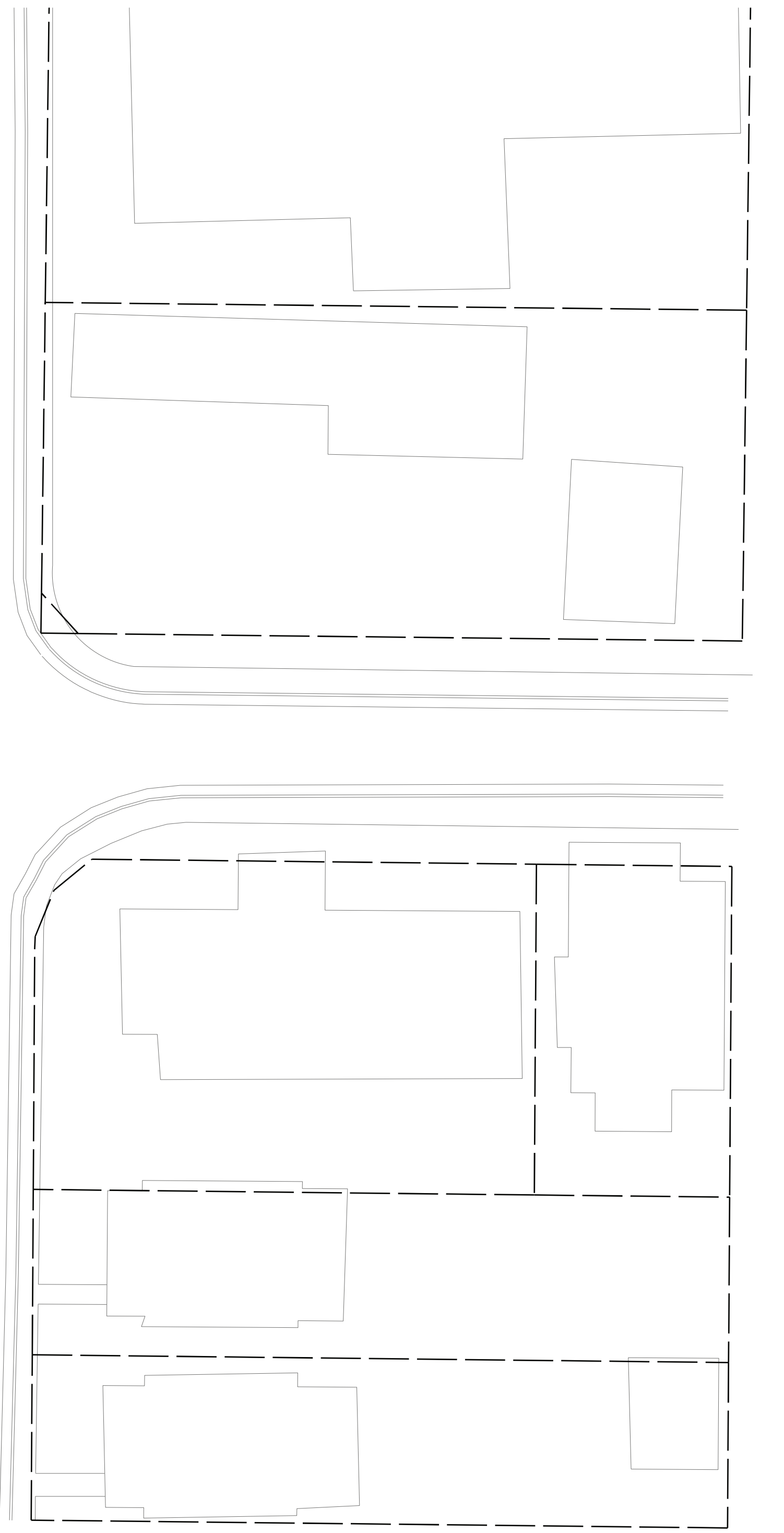
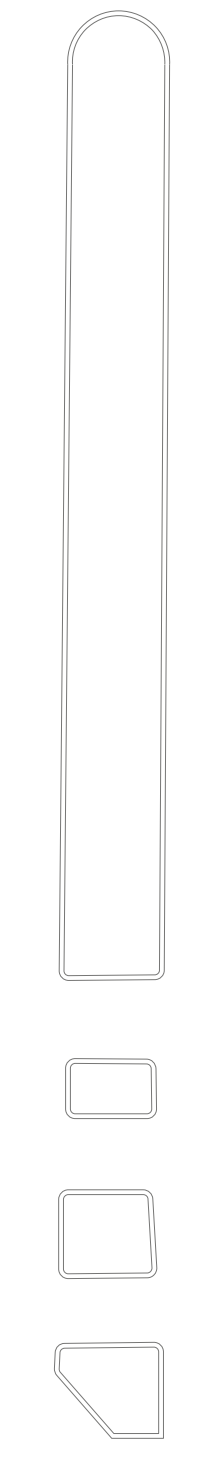
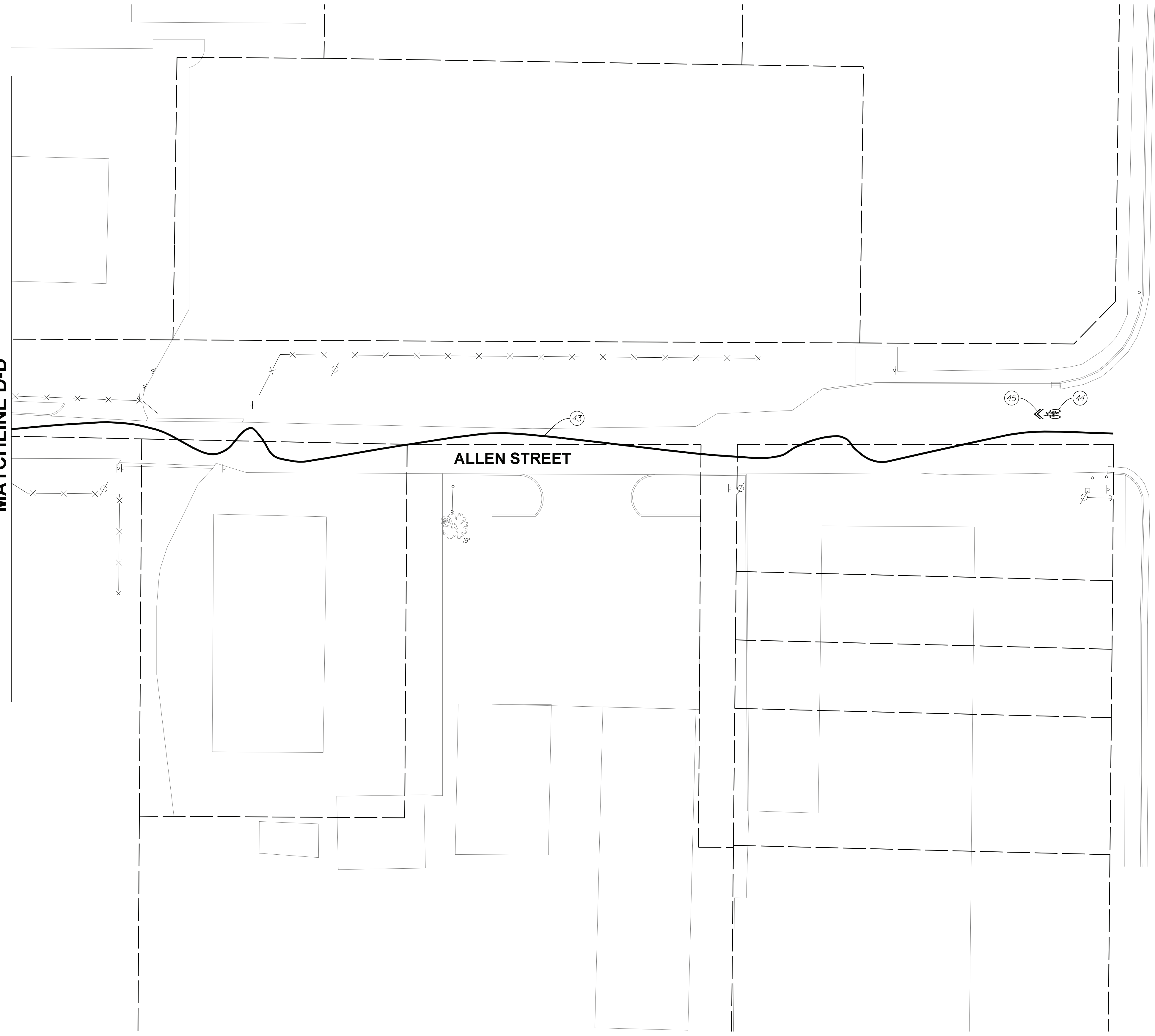
CITY OF BLOOMINGTON  
DEPARTMENT OF ENGINEERING

NEIGHBORHOOD GREENWAY PLANS  
ALLEN STREET

HORIZONTAL SCALE	ERCS PROJECT NUMBER
1" = 20'-0"	240
VERTICAL SCALE	
	SHEET NUMBER
	11

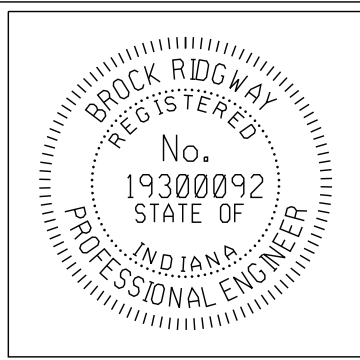
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MATCHLINE D-D



**LEGEND:**

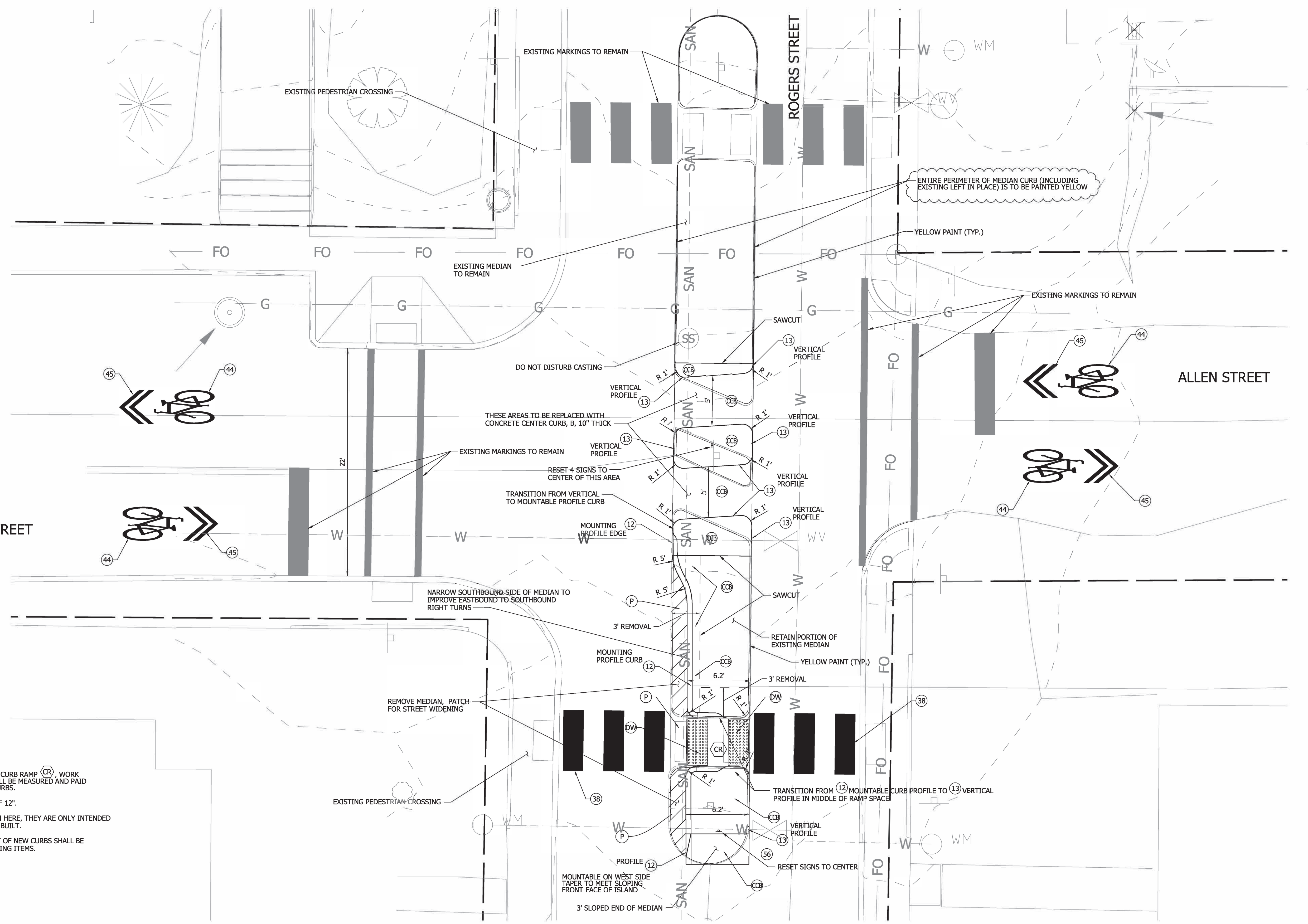
- ④③ 4" GREENWAY RIBBON MARKING, THERMOPLASTIC
- ④④ BIKE SYMBOLS, THERMOPLASTIC
- ④⑤ WHITE CHEVRONS (FOR BIKE ROUTE), THERMOPLASTIC



RECOMMENDED FOR APPROVAL <i>B. Ridgway</i> 10-19-2022	
DESIGN ENGINEER DATE	
DESIGNED: BR	DRAWN: RBA
CHECKED: MT	CHECKED: BR

**CITY OF BLOOMINGTON**  
**DEPARTMENT OF ENGINEERING**  
  
**NEIGHBORHOOD GREENWAY PLANS**  
**ALLEN STREET**

HORIZONTAL SCALE	ERCES PROJECT NUMBER
1" = 20'-0"	240
VERTICAL SCALE	
	SHEET NUMBER
	12

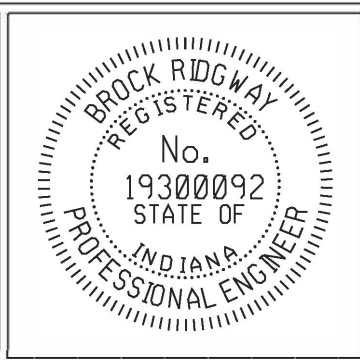


- NOTES:**
- EXCEPT FOR THE AREA DESIGNATED AS CURB RAMP (CR), WORK FOR THE CENTER MEDIAN ISLANDS SHALL BE MEASURED AND PAID AS CENTER CURB, B, INCLUDING THE CURBS.
  - CONCRETE SHALL HAVE A THICKNESS OF 12".
  - WHERE CURBS (12) OR (13) ARE SHOWN HERE, THEY ARE ONLY INTENDED TO INDICATE THE CURB PROFILE TO BE BUILT.
  - PATCHING AND RESURFACING IN FRONT OF NEW CURBS SHALL BE MEASURED AND PAID AS STREET PATCHING ITEMS.

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**SIGN AND PAVEMENT MARKINGS LEGEND ITEMS:**

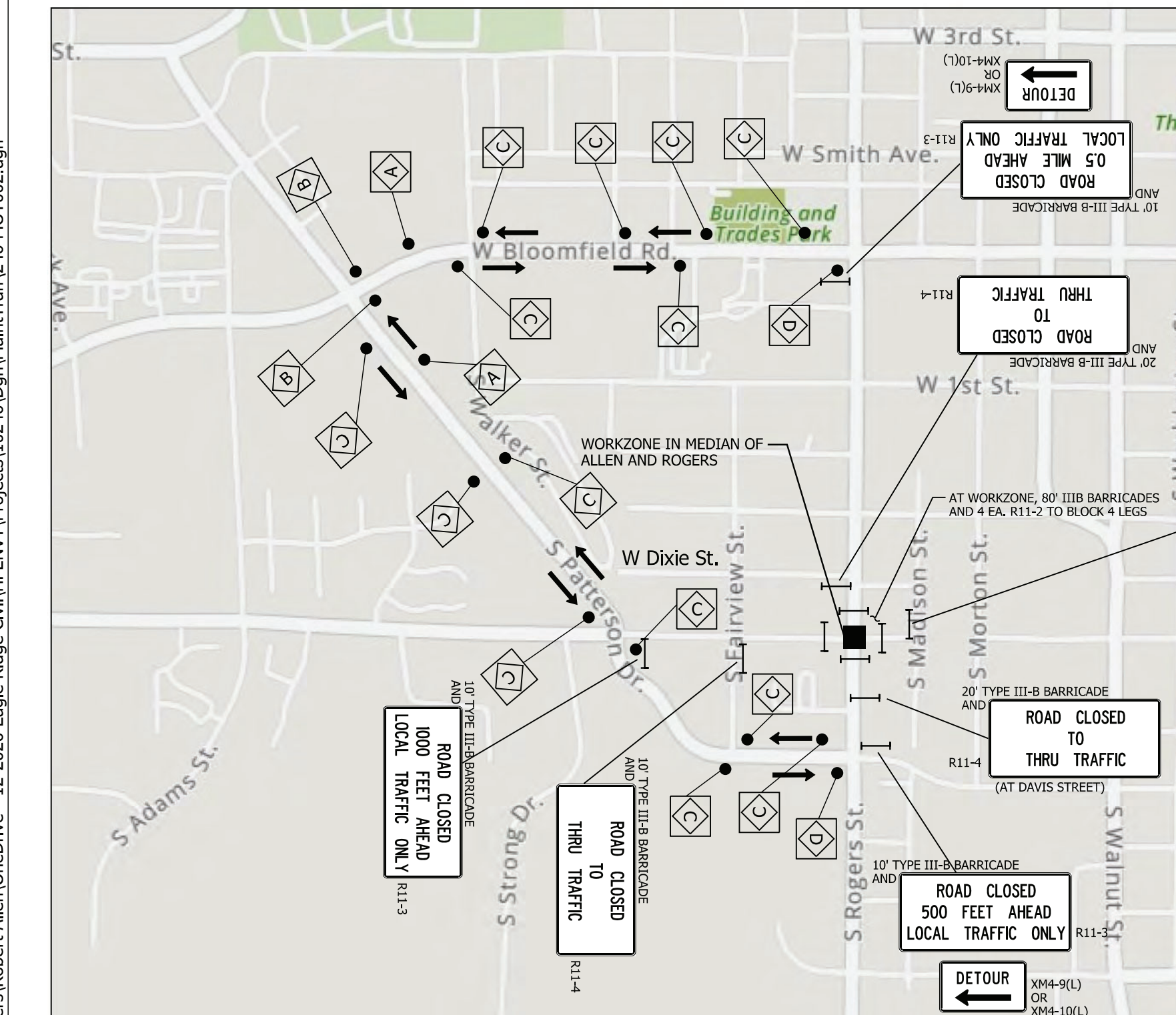
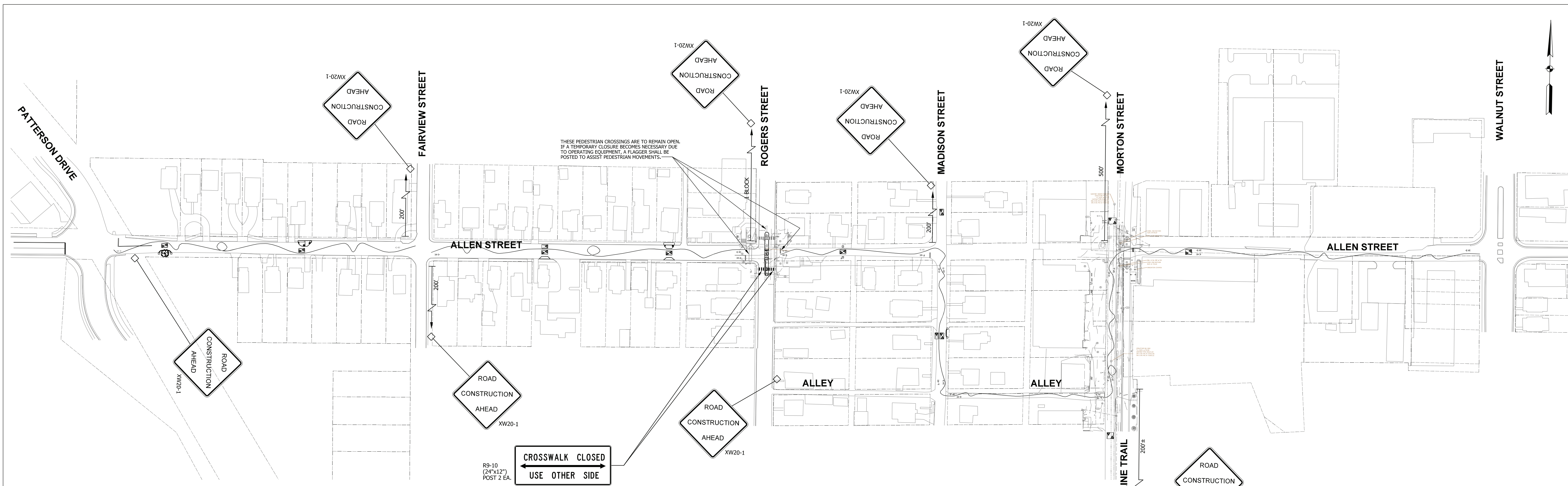
- |  |   |   |
|--|---|---|
| (38) 24" WHITE LINES FOR CROSSWALKS OR STOP BARS, THERMOPLASTIC  | (42) 4" DOUBLE YELLOW, THERMOPLASTIC, SKIP LINE (4' LINE, 8' GAP)       | (56) RESET EXISTING SIGN ON NEW TYPE 1 POST |
| (39) 8" WHITE LINES FOR CROSSWALKS, THERMOPLASTIC                | (44) BIKE SYMBOLS, THERMOPLASTIC (USE APPROVED PRIMER WHEN IN CONCRETE) | (62) NEW SIGN ON TYPE 1 POST                |
| (40) ARROW, THERMOPLASTIC (USE APPROVED PRIMER WHEN IN CONCRETE) | (45) WHITE CHEVRONS (FOR BIKE ROUTE), THERMOPLASTIC                     | (DW) DETECTABLE WARNING                     |
| (41) 4" YELLOW, SOLID LINE, THERMOPLASTIC                        | (50) REMOVE EXISTING SIGN AND POST                                      | (CCB) MODIFIED CENTER CURB, B               |
|  |   | (TS) TURNING SPACE MAX. 2%                  |



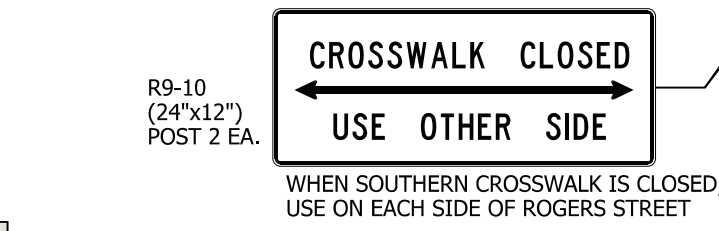
RECOMMENDED FOR APPROVAL	<i>Bridgway</i>	DESIGN ENGINEER	10-19-2022	DATE
DESIGNED:	BR	DRAWN:	RBA	
CHECKED:	MT	CHECKED:	BR	

**CITY OF BLOOMINGTON**  
**DEPARTMENT OF ENGINEERING**  
  
**INTERSECTION DETAILS**  
**WEST ALLEN STREET AT ROGERS STREET**

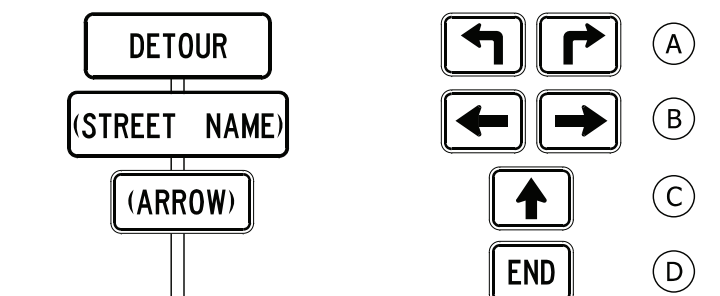
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VERTICAL SCALE			
		SHEET NUMBER	13



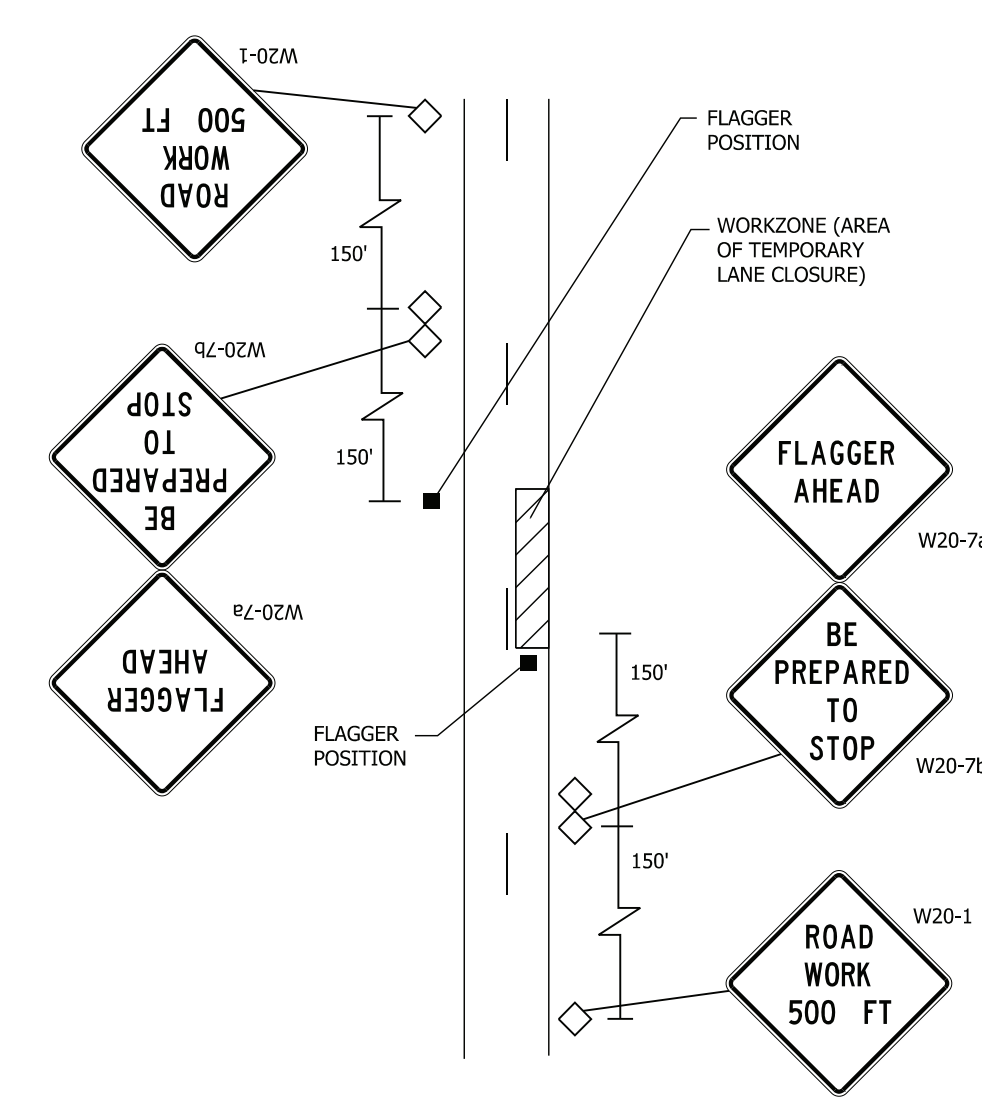
**DETOUR MAP**  
NTS



**NOTE:**  
CLOSURES OF ROGERS STREET ARE TO BE DAILY, NOT OVERNIGHT. CONTRACTOR MAY SELECT DAYS BASED ON WEATHER OR TO SUIT THEIR OWN SCHEDULES AND AVAILABILITY. USE COVERS ON ALL DETOUR - RELATED SIGNS ON DAYS WHEN ROGERS IS NOT CLOSED.



**DETOUR ROUTE MARKER ASSEMBLIES**



**TYPICAL LANE RESTRICTIONS ON PUBLIC ROADS USING FLAGGER (IF NEEDED)**

**NOTE:**  
DISTANCES SHALL BE ADJUSTED TO FIELD CONDITIONS WHERE SPACE IS LIMITED.

**THIS DETAIL MAY BE USED ONLY DURING DAYTIME HOURS. IT SHALL NOT BE USED WHERE PATCHING OPERATIONS ARE LEFT UNFINISHED OVERNIGHT WITHOUT ATTENDANTS.**

**GENERAL REQUIREMENTS:**

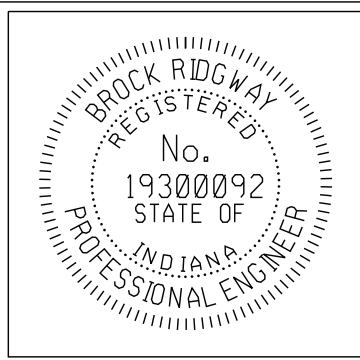
1. FLAGGER OPERATIONS AND TEMPORARY SIGNAGE IN ACCORDANCE WITH INDIANA MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES ARE REQUIRED FOR ALL LANE RESTRICTIONS.
2. ALL SIGNS TO BE MOUNTED ON STANDARDS.
3. ALL SIGNS, BARRICADES AND DRUMS TO BE MOUNTED WITH A TYPE C (STEADY BURN) WARNING LIGHT AND MAINTAINED DUSK TO DAWN.

**SPECIAL MAINTENANCE OF TRAFFIC CONDITIONS:**

1. FULL ROAD CLOSURES ARE ONLY EXPECTED DURING ASPHALT PAVING IN THE STREET, INCLUDING CUSHION INSTALLATIONS. FLAGGER OPERATIONS SHALL BE USED FOR WORK AT EDGE AND OFF STREETS.
2. FULL CLOSURES SHALL CONSIST OF A SOFT CLOSURE AT PRIMARY CROSS STREETS. HARD CLOSURE SHALL BE AT WORK SITE, SET AS SHORT AS PRACTICABLE.
3. LANDLOCKED PROPERTY OWNERS SHALL BE CONTACTED A MINIMUM ONE WEEK IN ADVANCE FOR TEMPORARY RESTRICTION OF ACCESS TO DRIVES.
4. ROAD RESTRICTIONS SHALL BE LIFTED NIGHTLY.
5. FULL CLOSURES OF ROGERS STREET SHALL USE THE PROVIDED DETOUR PLAN.

MOT QUANTITIES		
<b>ROAD CLOSURE ASSEMBLIES</b>		
ROAD CLOSED	R11-2	4 EA.
ROAD CLOSED, LOCAL TRAFFIC ONLY	R11-3	4 EA.
ROAD CLOSED TO THRU TRAFFIC	R11-4	3 EA.
	<b>TOTAL</b>	<b>11 EA.</b>
<b>BARRICADES, III-B</b>		
ON PLANS		170 LFT
UNDISTRIBUTED		60 LFT
	<b>TOTAL</b>	<b>230 LFT</b>
<b>CONSTRUCTION SIGNS, A</b>		
ROAD CONSTRUCTION AHEAD	XW20-1	8 EA.
UNDISTRIBUTED/OWNER DETERMINED		4 EA.
FLAGGER AHEAD	W20-7a	2 EA.
BE PREPARED TO STOP	W20-7b	2 EA.
ROAD WORK, 500 FEET		2 EA.
	<b>TOTAL</b>	<b>18 EA.</b>
<b>CONSTRUCTION SIGNS, B</b>		
DETOUR	XM4-9	2 EA.
SIDEWALK CLOSED - USE OTHER SIDE (24"x12")	R9-10	2 EA.
	<b>TOTAL</b>	<b>4 EA.</b>
DETOUR ROUTE MARKER ASSEMBLY		20 EA.

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**CITY OF BLOOMINGTON**  
**DEPARTMENT OF ENGINEERING**  
  
**MAINTENANCE OF TRAFFIC**

HORIZONTAL SCALE	ERCES PROJECT NUMBER
VERTICAL SCALE	240
SHEET NUMBER	
14	





**City of Bloomington  
Engineering Department**

**ATTACHMENT 'E'**

Letting Date: November 21st, 2022

Unit Prices

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Project Title : West Allen Street Greenway

LINE	ITEM	DESCRIPTION	Approximate Quantity and Units	UNITS	UNIT PRICE	BID AMOUNT
001	105-06845	CONSTRUCTION ENGINEERING	1	LS	-	-
002	110-01001	MOBILIZATION AND DEMOBILIZATION	1	LS	-	-
003	201-52370	CLEARING RIGHT OF WAY	1	LS	-	-
004	303-01180	COMPACTED AGGREGATE NO 53	19	TON	-	-
005	304-12624	HMA PATCHING, PARTIAL DEPTH, TYPE B	5	TON	-	-
006	305-07468	PCCP BASE PATCHING, 12 IN	24	SYS	-	-
007	306-08033	MILLING, ASPHALT, 1 IN.	24	SYS	-	-
008	402-XXXXX	HMA SPEED CUSHION	14	EACH	-	-
009	406-05520	ASPHALT FOR TACK COAT	59	SYS	-	-
0010	604-04452	LIMESTONE	76	CFT	-	-
0011	604-06070	SIDEWALK CONCRETE, 4 IN. OR 6 IN.	47	SYS	-	-
0012	604-08086	CURB RAMP, CONCRETE	4	SYS	-	-
0013	604-12083	DETECTABLE WARNING SURFACES	2	SYS	-	-
0014	605-06120	CURB, CONCRETE	110	LFT	-	-
0015	605-06125	CURB, CONCRETE, MODIFIED - REINFORCED	129	LFT	-	-
0016	605-06225	CENTER CURB, B, MODIFIED	39	SYS	-	-
0017	616-03096	RIVER ROCK	4	TON	-	-
0018	616-06396	RIPRAP, LARGE AGG RIVER ROCK	4	TON	-	-
0019	621-06575	SODDING, NURSERY	22	SYS	-	-
0020	621-09908	SOIL, ENGINEERED	20	CYS	-	-
0021	622-05650	PLANT, DECIDUOUS TREE, SINGLE STEM, OVER 2 IN. TO 2.5	1	EACH	-	-
0022	622-05654	PLANT, PERENNIAL	166	EACH	-	-
0023	702-03607	CORED HOLE IN CONCRETE, MANHOLE	1	EACH	-	-
0024	715-05048	PIPE, TYPE 4, CIRCULAR, 6 IN.	30	LFT	-	-
0025	715-05149	PIPE, TYPE 2, CIRCULAR, 12 IN.	4	LFT	-	-
0026	720-45270	PIPE CATCH BASIN, 18 IN.	1	EACH	-	-

Continued on next page.



Project Title : West Allen Street Greenway

LINE	ITEM	DESCRIPTION	Approximate Quantity and Units	UNITS	UNIT PRICE	BID AMOUNT
0027	721-10149	DEBRIS SCREEN	2	EACH	-	-
0028	801-04308	ROAD CLOSURE SIGN ASSEMBLY	11	EACH	-	-
0029	801-06625	DETOUR ROUTE MARKER ASSEMBLY	20	EACH	-	-
0030	801-06640	CONSTRUCTION SIGN, A	18	EACH	-	-
0031	801-06645	CONSTRUCTION SIGN, B	4	EACH	-	-
0032	801-06775	MAINTAINING TRAFFIC	1	LS	-	-
0033	801-07119	BARRICADE, III-B	230	LFT	-	-
0034	802-05704	SIGN POST, SQUARE TYPE 1 UNREINFORCED ANCHOR BASE	132	LFT	-	-
0035	802-07060	SIGN, SHEET, RELOCATE	7	EACH	-	-
0036	802-09838	SIGN, SHEET, WITH LEGEND, 0.080 IN.	74	SFT	-	-
0037	808-02977	PAVEMENT MESSAGE MARKING, THERMOPLASTIC, BIKE SYMBOL	23	EACH	-	-
0038	808-03439	TRANSVERSE MARKING, THERMOPLASTIC, CROSSWALK LINE, WHITE, 24 IN.	36	LFT	-	-
0039	808-06609	PAVEMENT MESSAGE MARKING, THERMOPLASTIC, CHEVRON (PAIRS) WHITE	23	EACH	-	-
0040	808-XXXXX	PAVEMENT MESSAGE MARKING, THERMOPLASTIC, SPEED HUMP MARKING	22	EACH	-	-
0041	808-75245	LINE, THERMOPLASTIC, SOLID, YELLOW, 4 IN.	120	LFT	-	-
0042	808-75297	TRANSVERSE MARKING, THERMOPLASTIC, STOP LINE, WHITE, 24 IN.	10	LFT	-	-
0043	808-95933	CURB PAINTING, YELLOW	99	LFT	-	-

**BASE BID:** \_\_\_\_\_ -

**ALTERNATE 1 (GREENWAY CURVED LINE)**

A045	808-09314	GREENWAY CURVED LINE, GREEN, THERMOPLASTIC, 4 IN, CART APPLIED	3300	LFT	-	-
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**WITH ALT 1:** \_\_\_\_\_ -

Bidder acknowledges that:

- each Bid Unit Price includes an amount considered by Bidder to be adequate to cover Contractor's overhead and profit for each separately identified item, and
- estimated quantities are not guaranteed, and are solely for the purpose of comparison of Bids, and final payment for all Unit Price Work will be based on actual quantities, determined as provided in the Contract Documents.