

ADDENDUM NO. 1
TO THE
DRAWINGS AND SPECIFICATIONS
FOR THE
3rd & Indiana Signal Replacement Project

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

Issue Date: November 13th, 2020

Letting Date: November 19th, 2020

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 3rd & Indiana Signal Replacement 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: An Asphalt Surface Street Cut Repair detail was added to the plan set. The updated plan set indicates where this item shall be placed.

Item No. 2: Unit Price Item #605-52807, Curb and Gutter, Combined, has been deleted from the Unit Price Sheet. This item has been replaced by Item #605-06120, Curb, Concrete. The updated plan set reflects this change.

Item No. 3: The quantity amounts for Unit Price Item #207-08264, Subgrade Treatment, Type II, Item #506-06333, PCCP Patching, Full Depth, and Item #604-06070, Sidewalk, Concrete have all been altered on the updated Unit Price Sheet.

	CERTIFIED BY: <i>Neil Kopper</i> NEIL KOPPER INTERIM TRANSPORTATION & TRAFFIC ENGINEER CITY OF BLOOMINGTON, IN
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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)

SIGNATURE: _____

DATE: _____

PRINTED NAME: _____

TITLE: _____



City of Bloomington
Planning and Transportation Department

Letting Date: November 19th, 2020

Proposal Schedule of Items (Unit Prices)

Page 1 of 3

Project Title : 3rd & Indiana Signal Replacement

LINE	ITEM	DESCRIPTION	Approximate Quantity and Units	UNITS	UNIT PRICE	BID AMOUNT
001	105-06845	CONSTRUCTION ENGINEERING	1	lump sum	-	-
002	107-09358	INSPECTION HOLE, DEEPER THAN 3 FT	2	EACH	-	-
003	107-09367	INSPECTION HOLE, 3 FT DEEP OR LESS	2	EACH	-	-
004	110-01001	MOBILIZATION AND DEMOBILIZATION	1	lump sum	-	-
005	201-52370	CLEARING RIGHT OF WAY	1	lump sum	-	-
006	202-02240	PAVEMENT REMOVAL	58	SYS	-	-
007	205-12108	STORM WATER MANAGEMENT BUDGET	1	lump sum	-	-
008	205-12616	STORMWATER MGMT IMPLEMENTATION	1	lump sum	-	-
009	207-08264	SUBGRADE TREATMENT, TYPE II	95	SYS	-	-
010	211-09264	STRUCTURE BACKFILL, TYPE 1	4	CYS	-	-
011	306-08034	MILLING, ASPHALT, 1 1/2 IN.	602	SYS	-	-
012	401-07328	QC/QA-HMA, 3, 70, SURFACE, 9.5 mm	50	TON	-	-
013	406-05520	ASPHALT FOR TACK COAT	1	TON	-	-
014	506-06333	PCCP PATCHING, FULL DEPTH	95	SYS	-	-
015	604-03643	BRICK PAVERS	41	SYS	-	-
016	604-06070	SIDEWALK, CONCRETE	74	SYS	-	-
017	604-08086	CURB RAMP, CONCRETE	68	SYS	-	-
018	604-12083	DETECTABLE WARNING SURFACES	11	SYS	-	-
019	605-52807	CURB AND GUTTER, COMBINED	279	LFT	-	-
020	621-98038	MULCH HARDWOOD SHREDDED BARK	6	CYS	-	-
021	715-05149	PIPE, TYPE 2, CIRCULAR, 12 IN.	9	LFT	-	-
022	715-09064	VIDEO INSPECTION FOR PIPE	9	LFT	-	-
023	720-45045	INLET, J10	1	EACH	-	-
024	720-45410	MANHOLE, C4	1	EACH	-	-
025	801-03290	CONSTRUCTION SIGN, C	4	EACH	-	-
026	801-06207	TEMP PVMNT MARKING, REMOVABLE, 4 IN.	1662	LFT	-	-
027	801-06211	TEMP PVMNT MARK, REMVBLE, ARROW	1	EACH	-	-
028	801-06640	CONSTRUCTION SIGN, A	15	EACH	-	-
029	801-06645	CONSTRUCTION SIGN, B	69	EACH	-	-

Project Title : 3rd & Indiana Signal Replacement

LINE	ITEM	DESCRIPTION	Approximate Quantity and Units	UNITS	UNIT PRICE	BID AMOUNT
030	801-06775	MAINTAINING TRAFFIC	1	lump sum	-	-
031	801-07119	BARRICADE, III-B	36	LF	-	-
032	802-04089	SIGN, SHEET, REMOVE	7	EACH	-	-
033	802-07059	SIGN, SHEET, AND SUPPORTS, REMOVE	1	EACH	-	-
034	802-07060	SIGN, SHEET, RELOCATE	1	EACH	-	-
035	802-09838	SIGN, SHEET, WITH LEGEND, 0.080 IN.	30	SFT	-	-
036	802-09840	SIGN, SHEET, WITH LEGEND, 0.100 IN.	45	SFT	-	-
037	802-09842	SIGN, SHEET, WITH LEGEND, 0.125 IN.	13	SFT	-	-
038	805-01300	TRAFFIC SIGNAL EQUIPMENT, REMOVE	1	EACH	-	-
039	805-01479	CONTROLLER CABINET FOUND., P1 MODIFIED	1	EACH	-	-
040	805-01579	MISCELLANEOUS EQUIP. TRAFFIC SIGNALS	1	lump sum	-	-
041	805-01842	HANDHOLE SIGNAL TYPE 1	4	EACH	-	-
042	805-01844	CONDUIT, STEEL, GALVANIZED, 2 IN.	257	LFT	-	-
043	805-02087	TRANSPORT SALVAGEABLE SIGNAL EQUIP.	1	lump sum	-	-
044	805-02150	PED. SIGNAL HEAD, COUNTDOWN, 18 IN.	8	EACH	-	-
045	805-02445	CONTROLLER AND CABINET, P1	1	EACH	-	-
046	805-02645	SIGNAL POLE FOUND. 24" X 24" X 36"	5	EACH	-	-
047	805-08487	BACKPLATE, SIGNAL	5	EACH	-	-
048	805-09451	SIGNAL POLE, PEDESTAL, 15 FT	4	EACH	-	-
049	805-11385	SGNL CNTLVR STRUCT DRILL SHFT FND E SPEC	1	EACH	-	-
050	805-11393	SGNL CNTLVR STRUCT, DUAL ARM 35' SPEC	1	EACH	-	-
051	805-11817	PEDESTRIAN PUSH BUTTON, APS	8	EACH	-	-
052	805-12016	UNINTERRUPTIBLE POWER SUPPLY	2	EACH	-	-
053	805-78205	TRAFFIC SIGNAL HEAD, 3 SECTION, 12 IN.	5	EACH	-	-
054	805-78467	SIGNAL CABLE, SERVICE, COPPER, 3C/8 GA	110	LFT	-	-
055	805-78480	SIGNAL CABLE, CONTROL, COPPER, 3C/14 GA	260	LFT	-	-
056	805-78485	SIGNAL CABLE, CONTROL, COPPER, 5C/14 GA	910	LFT	-	-
057	805-78490	SIGNAL CABLE, CONTROL, COPPER, 7C/14 GA	580	LFT	-	-
058	805-99162	SIGNAL POLE, PEDESTAL, 11 FT	1	EACH	-	-
059	807-02782	LUMINAIRE MAST ARM 12 FT	1	EACH	-	-
060	807-86615	LMNR, RDWY, HIGH PRESS SDM, 250 WATT	1	EACH	-	-
061	807-86805	SERVICE POINT, I	1	EACH	-	-
062	807-86889	CBL POLE CIRCUIT THWN #10 CPPR STND 1/C	150	LFT	-	-
063	807-86910	CONNECTOR KIT, UNFUSED	1	EACH	-	-
064	807-86915	CONNECTOR KIT, FUSED	1	EACH	-	-
065	807-86930	INSULATION LINK, NON-WATERPROOFED	2	EACH	-	-
066	807-97237	WIRE #4 COPPER, IN PLASTIC DUCT, 4 1/C	150	LFT	-	-
067	808-03439	TRNSVRS MRK THERM CRSSWLK LN WHT 24"	297	LFT	-	-

Project Title : 3rd & Indiana Signal Replacement

LINE	ITEM	DESCRIPTION	Approximate Quantity and Units	UNITS	UNIT PRICE	BID AMOUNT
068	808-06701	LINE, THERM, BROKEN, WHITE, 4 IN.	9	LFT	_____ - _____	_____ - _____
069	808-06703	LINE, THERMOPLASTIC, SOLID, WHITE, 4 IN.	45	LFT	_____ - _____	_____ - _____
070	808-06711	LINE, PAINT, BROKEN, WHITE, 4 IN.	75	LFT	_____ - _____	_____ - _____
071	808-06713	LINE, PAINT, SOLID, WHITE, 4 IN.	332	LFT	_____ - _____	_____ - _____
072	808-06716	LINE, REMOVE	1250	LFT	_____ - _____	_____ - _____
073	808-11482	LINE, THERM, DOTTED, WHITE, 4 IN.	36	LFT	_____ - _____	_____ - _____
074	808-12046	LINE, PAINT, DOTTED, WHITE, 4 IN.	40	LFT	_____ - _____	_____ - _____
075	808-12448	CURB PAINTING	36	LFT	_____ - _____	_____ - _____
076	808-75297	THERMOPLASTIC, STOP LINE, WHITE, 24 IN.	60	LFT	_____ - _____	_____ - _____
077	605-06120	CURB, CONCRETE	293	LFT	_____ - _____	_____ - _____

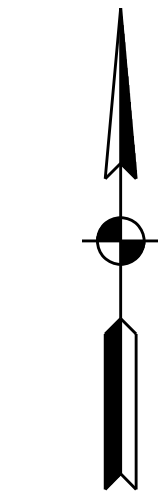
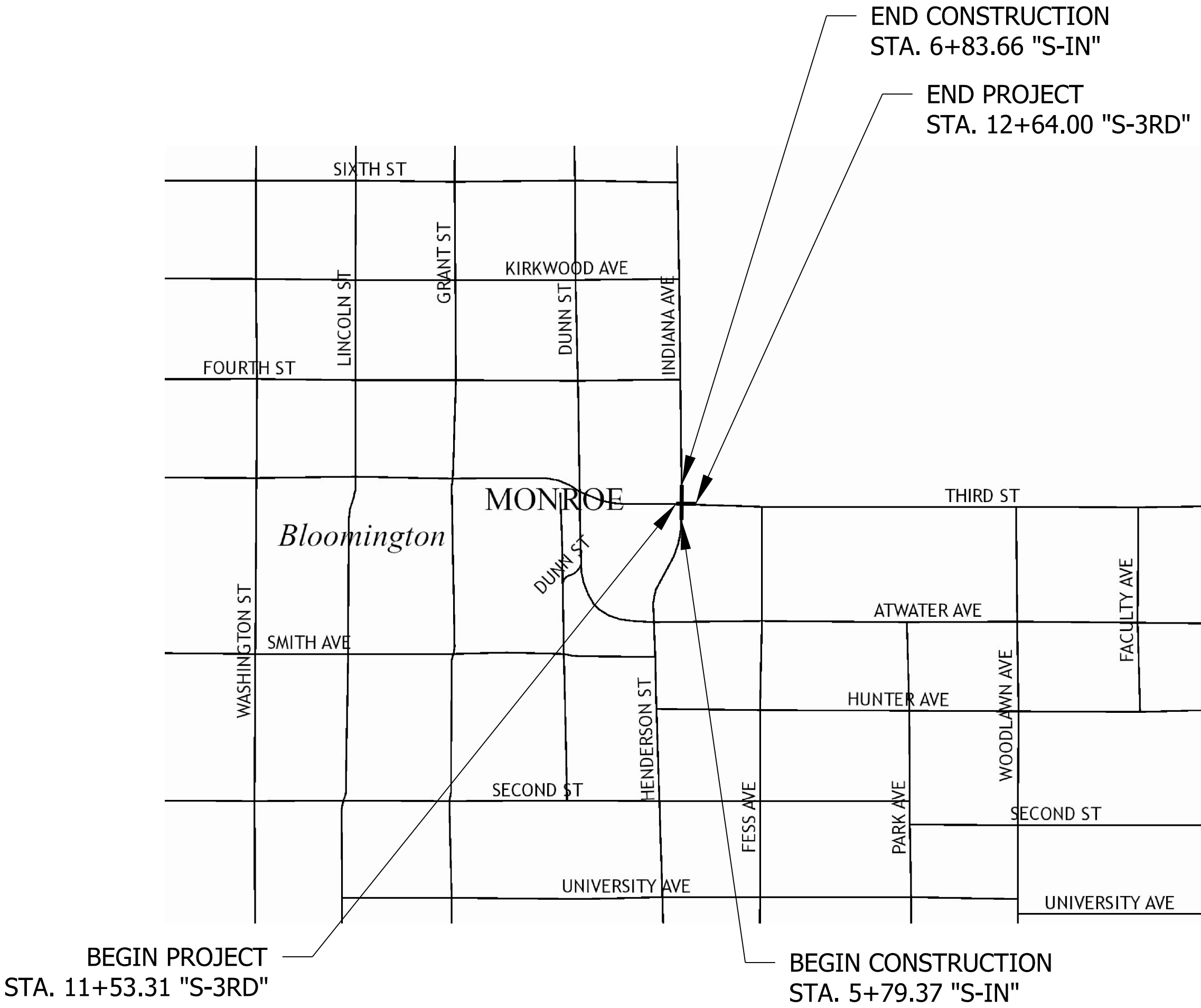
TOTAL PROJECT BID: _____ - _____

CITY OF BLOOMINGTON, IN

ROAD & SIGNAL PLANS

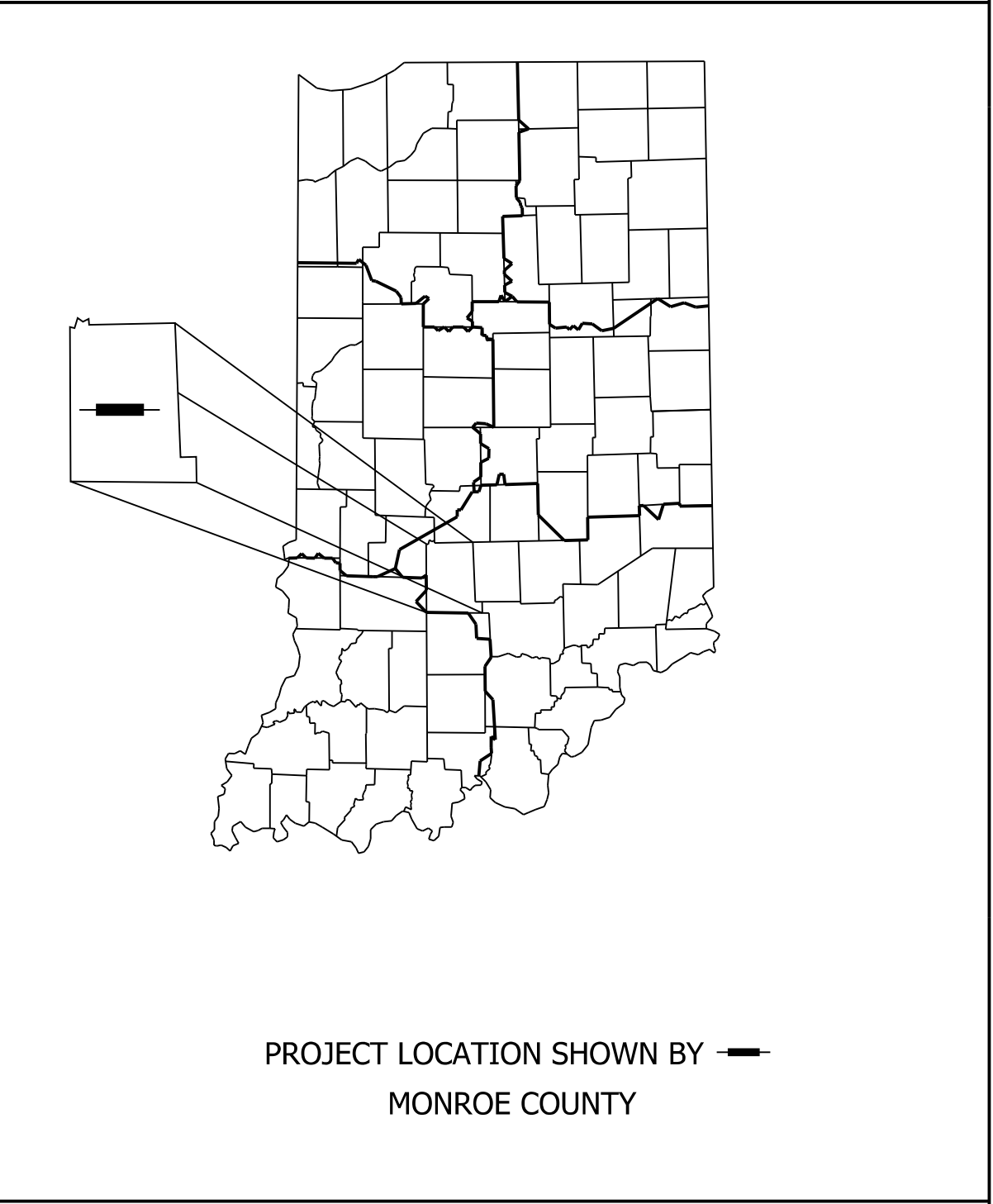
Intersection Improvements at Indiana Ave and 3rd. St.
Bloomington, IN

Located 2.0 Miles West of SR46, In Sections 33 & 4 T-9-N, R-1-W,
Perry Township, Monroe Co., Indiana



SCALE: 1" = 300'

DESIGN DATA		3rd ST.
DESIGN SPEED		25 MPH
PROJECT DESIGN CRITERIA		3R
FUNCTIONAL CLASSIFICATION		MAJOR COLLECTOR
RURAL/URBAN		URBAN
TERRAIN		LEVEL
ACCESS CONTROL		NONE
DESIGN DATA		INDIANA AVE
DESIGN SPEED		30 MPH
PROJECT DESIGN CRITERIA		3R
FUNCTIONAL CLASSIFICATION		MAJOR COLLECTOR
RURAL/URBAN		URBAN
TERRAIN		LEVEL
ACCESS CONTROL		NONE

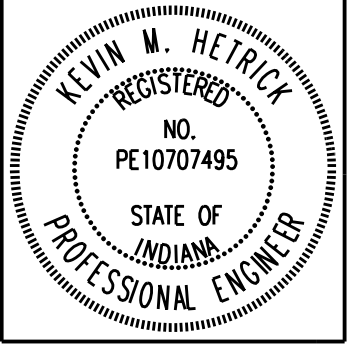


INDIANA AVE & 3RD STREET
LATITUDE: 39°09'51.55" N LONGITUDE 86°31'36.87 W

INDIANA DEPARTMENT OF TRANSPORTATION
STANDARD SPECIFICATIONS DATED 2020
TO BE USED WITH THESE PLANS

ClarkDietz
8900 KEYSTONE CROSSING, SUITE 475
INDIANAPOLIS, INDIANA 46240
T:317.844.8900...www.clarkdietz.com

PLANS	Clark Dietz, Inc.
PREPARED BY:	8900 Keystone Crossing, Suite 475, Indianapolis, IN 46240 (317) 844-8900
	PHONE NUMBER
CERTIFIED BY:	9/30/2020 DATE
APPROVED	
FOR LETTING:	City of Bloomington DATE



DESIGNATION		XXXXXX
SURVEY BOOK	SHEETS	
CONTRACT	PROJECT	
XXXXX	XXXXXX	

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UTILITIES

Communication

AT & T
4517 E. Indiana Bell Court
Bloomington, IN 47408

ATTN: Russel Owen
TEL. : 812-334-4629 (office)
Email: ro1325@att.com

City of Bloomington Utilities

(Water, Sanitary, Storm Sewer)
600 East Miller Drive
Bloomington, IN 47402

ATTN: Jane Fleig
TEL. : 812-349-3631 (office)
Email: fleigj@bloomington.in.gov

Comcast Cable Communication

CABLE TV
1600 West Fountain Drive
Bloomington, IN 47404

ATTN: Steve Mcartor
TEL. : 812-822-3267 (office)
Email: steve_mcartor@cable.comcast.com

ELECTRIC

Duke Energy
3395 Greenbush St.
Lafayette, IN 47905

ATTN: Chuck Walls
TEL. : 765-446-4015 (office)
Email: chuck.walls@duke-energy.com

Communication

Smithville Fiber
1600 W. Temperance St.
Ellettsville, IN 47429

ATTN: Ben Kirk
TEL. : 812-935-2413 (office)
Email: ben.kirk@smithville.com

Communication

US Signal
201 Ionia Ave SW
Grand Rapids, MI 49503

ATTN: Rob Fisher
TEL. : 616-988-5319 (office)
Email: rfisher@tkns.net

GAS

Vectren Energy
4324 Middle Road
Columbus, IN 47203

ATTN: Chris Baldwin
TEL. : 812-348-6710 (office)
Email: cbaldwin@vectren.com

Telecommunication

Zayo Bandwidth
9209 Castlegate Drive
Indianapolis, IN 46256

ATTN: Waylon W. Higgins
TEL. : 765-341-1199 (cell)
Email: waylon.higgins@zayo.com

Street Department

City of Bloomington
1981 S Henderson St.
Bloomington, IN 47401

ATTN: Mike Stinson
TEL. : 812-349-3450 (office)
Email: stinsonm@bloomington.in.gov



Know what's below.
Call before you dig.

GENERAL NOTES

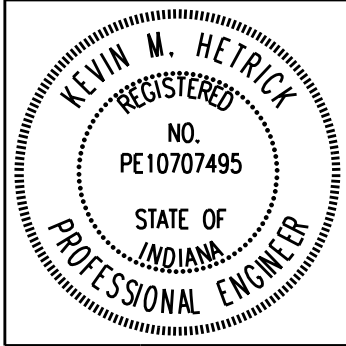
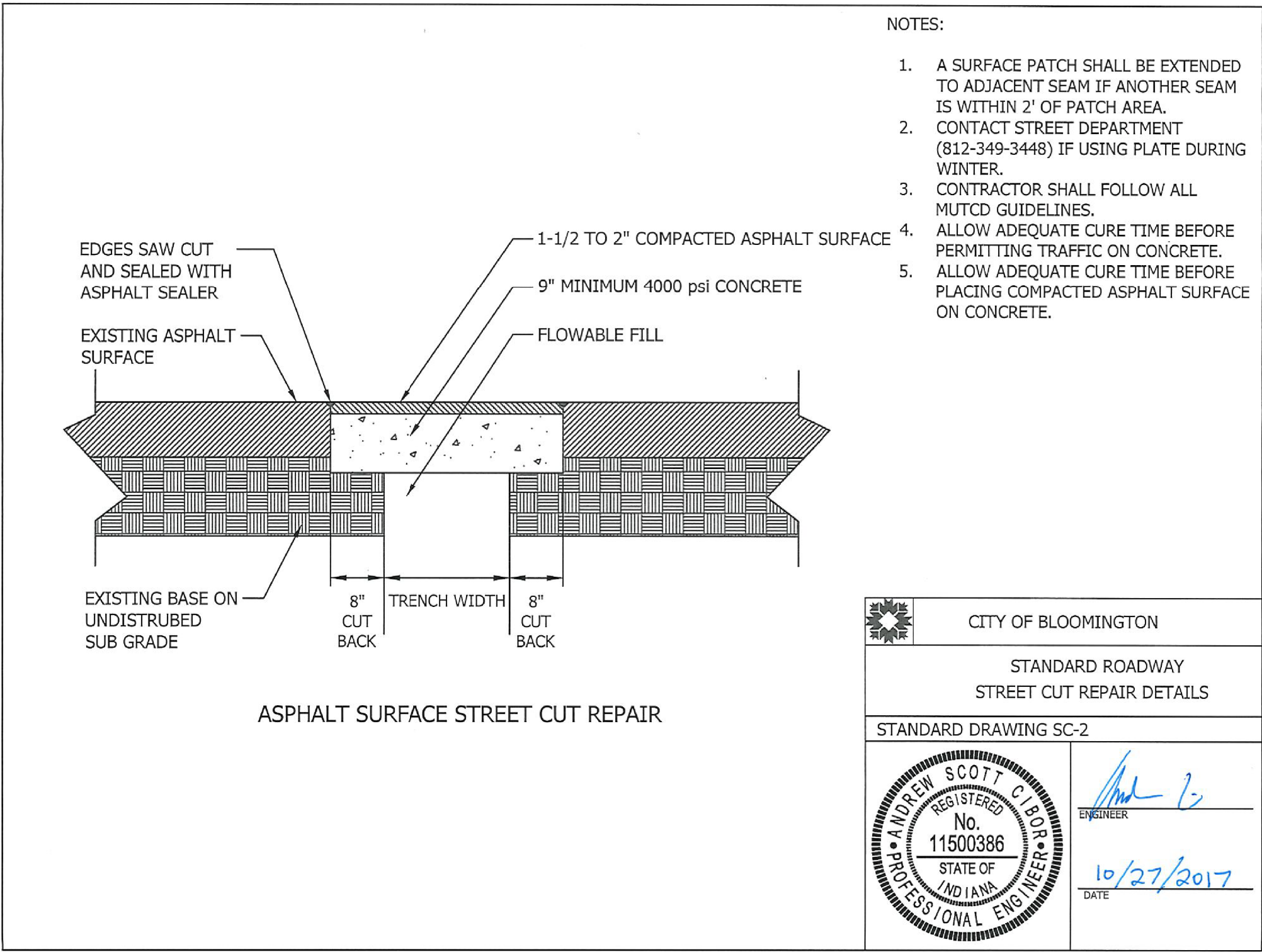
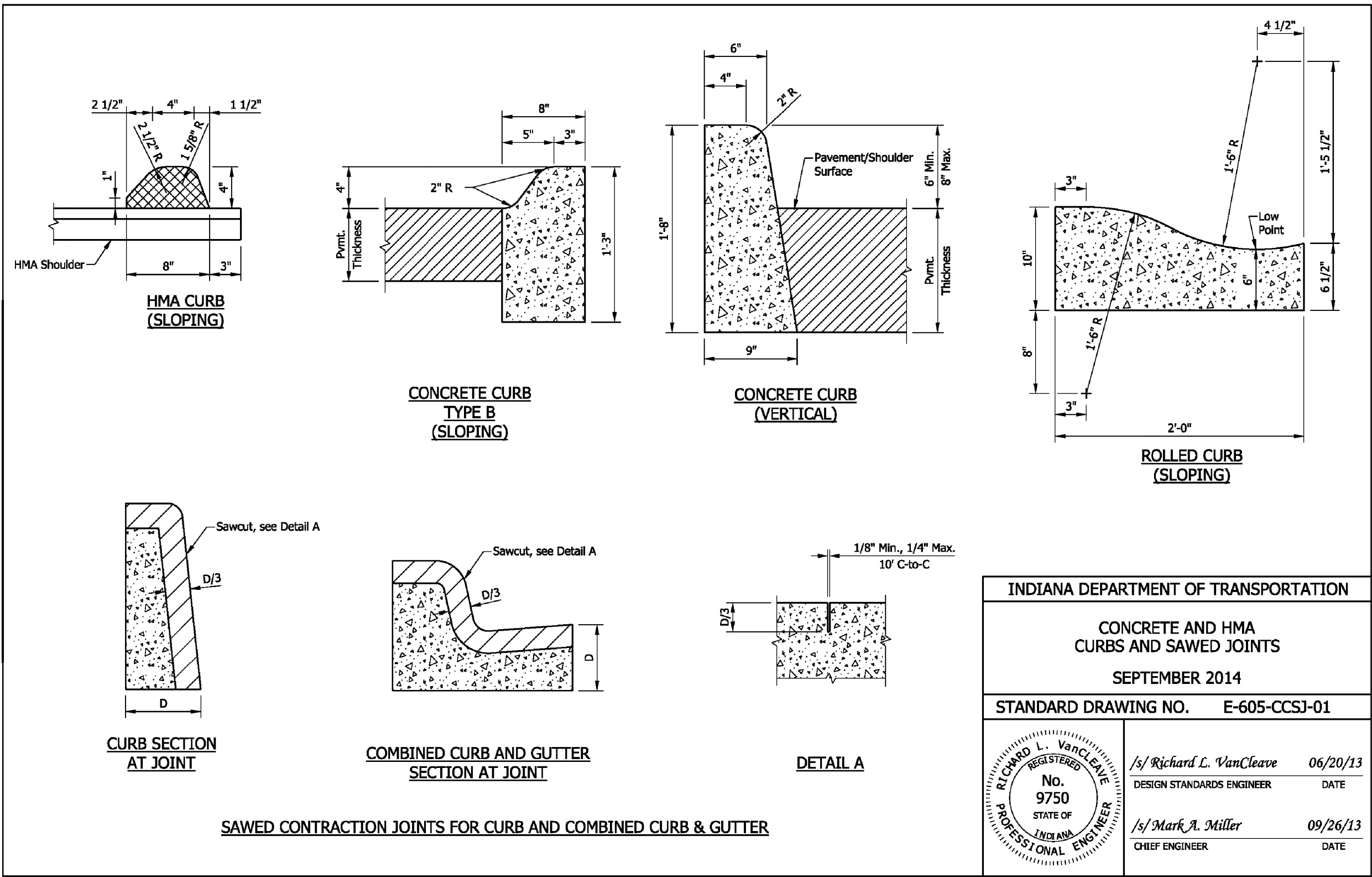
- All earth shoulders, median areas, cut and fill slopes shall be plain or mulch seeded except where sodding is specified.
- The final cross sections of the grading contract will be the original cross sections of the paving contract. However, partial or complete cross sections shall be taken if necessary to determine the actual excavation quantities.
- The paper relocation will be cross sectioned by the Engineer before construction.
- Existing asphalt pavement located outside the construction limits, between Sta. _____ and Sta. _____, shall be removed as directed.
- The quantity of peat excavation shown on the plans has been estimated on the basis of theoretical cross sections by using treatment of existing fills, treatment by removal, or treatment by displacement where each treatment applies.

REVISIONS

SHEET NO.	DATE	REV. NO.	REVISED
2,9,10 & 13	11/10/2020	1	Curb and gutter to vertical curb. Added driveway curb ramp to northern project limits.

INDEX

SHEET NO.	DESIGNATION
1	TITLE SHEET
2	GENERAL INFORMATION, STANDARD DRAWINGS & INDEX SHEET
3	LAYOUT
4 - 8	MAINTENANCE OF TRAFFIC
9	PLAN & PROFILE
10	INTERSECTION DETAILS & SPOT ELEVATIONS
11	SIGNING & STRIPING PLAN
12	TRAFFIC SIGNAL PLAN
13	MISCELLANEOUS TABLES



RECOMMENDED FOR APPROVAL	<i>[Signature]</i>	9/30/2020
	DESIGN ENGINEER	DATE
DESIGNED: JAJ	DRAWN: JAJ	
CHECKED: KMH	CHECKED: KMH	

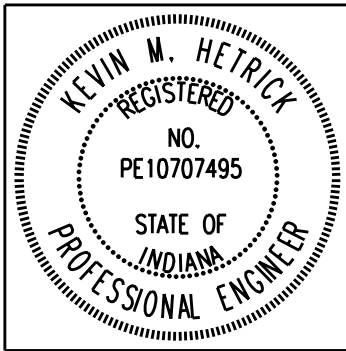
CITY OF BLOOMINGTON, INDIANA

GENERAL INFORMATION,
STANDARD DRAWINGS &
INDEX SHEET

HORIZONTAL SCALE	BRIDGE FILE
NONE	
VERTICAL SCALE	DESIGNATION
NONE	XXXXXX
SURVEY BOOK	SHEETS
	2 of 13
CONTRACT	PROJECT
XXXXX	XXXXXX

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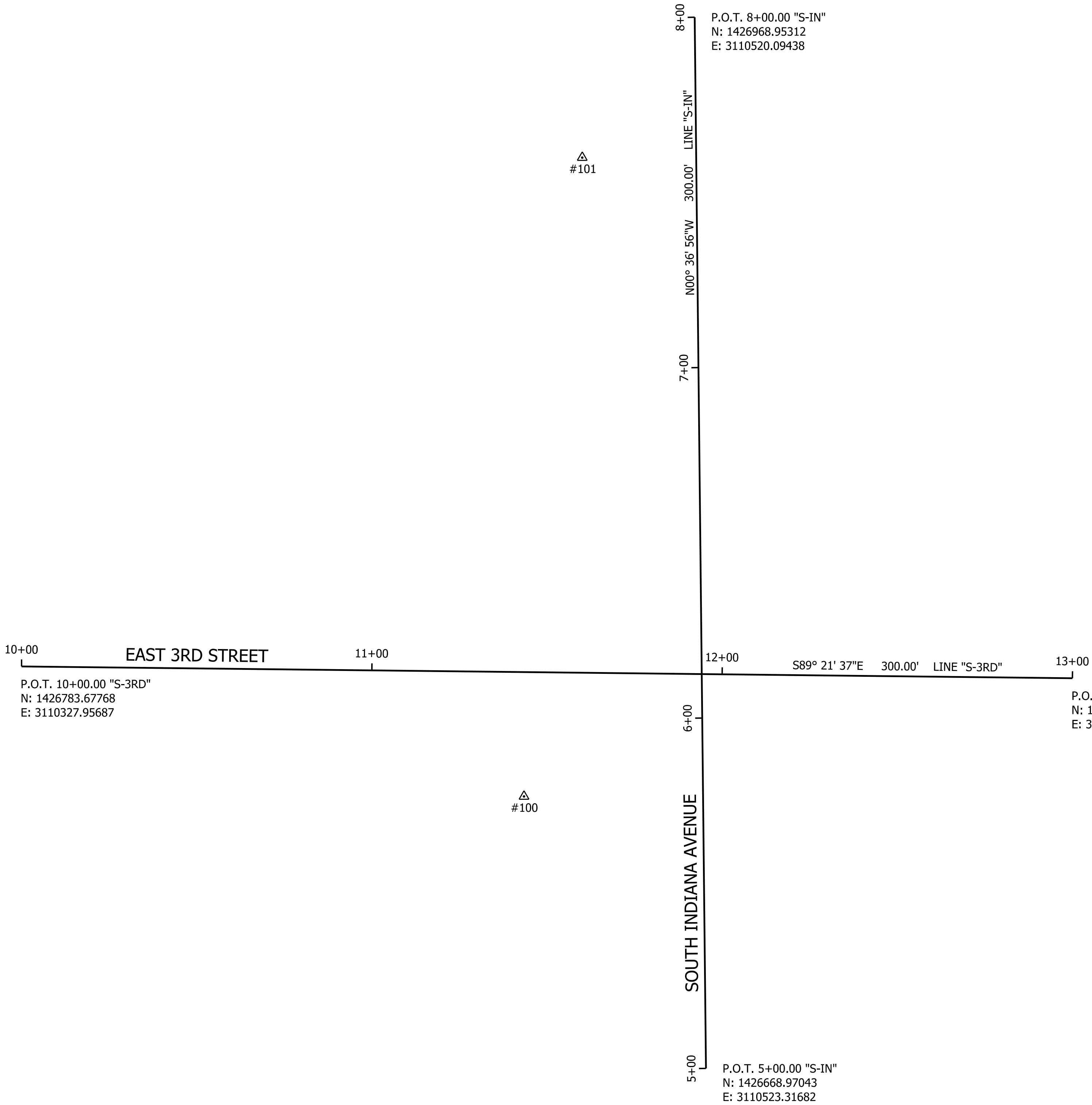
ClarkDietz



RECOMMENDED FOR APPROVAL		 DESIGN ENGINEER		9/30/2020 DATE	
DESIGNED: MMK		DRAWN: JAJ			
CHECKED: MMK		CHECKED: KMH			

CITY OF BLOOMINGTON, INDIANA	
LAYOUT	

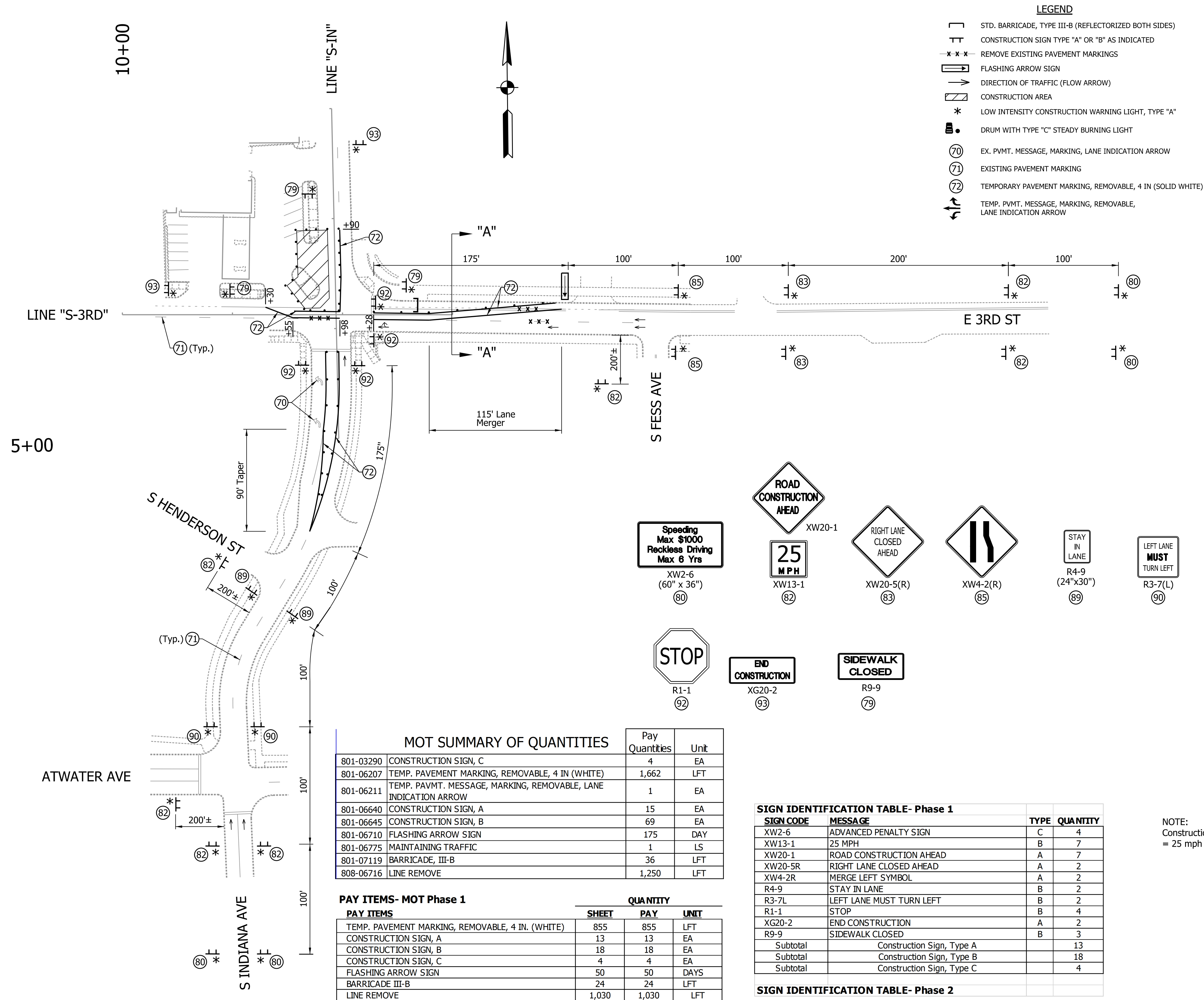
HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	
VERTICAL SCALE	DESIGNATION
NONE	XXXXXX
SURVEY BOOK	SHEETS
	3 of 13
CONTRACT	PROJECT
XXXXX	XXXXXX



CONTROL POINTS				
POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
100	1426746.59093	3110471.38964	788.66	5/8" DIA. REBAR WITH RED "CONTROL WITNESS" CAP FLUSH
101	1426928.90624	3110488.00628	780.97	MAG NAIL FLUSH
102	1426795.13855	3110738.75495	793.25	MAG NAIL FLUSH

HORIZONTAL DATUM: NAD83 (2011), Indiana State Plane West Zone, U.S. Survey Feet
VERTICAL DATUM: NAVD88 (Geoid 12B), U.S. Survey Feet

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LEGEND

	STD. BARRICADE, TYPE III-B (REFLECTORIZED BOTH SIDES)
	CONSTRUCTION SIGN TYPE "A" OR "B" AS INDICATED
	REMOVE EXISTING PAVEMENT MARKINGS
	FLASHING ARROW SIGN
	DIRECTION OF TRAFFIC (FLOW ARROW)
	CONSTRUCTION AREA
	LOW INTENSITY CONSTRUCTION WARNING LIGHT, TYPE "A"
	DRUM WITH TYPE "C" STEADY BURNING LIGHT
	EX. PVMT. MESSAGE, MARKING, LANE INDICATION ARROW
	EXISTING PAVEMENT MARKING
	TEMPORARY PAVEMENT MARKING, REMOVABLE, 4 IN (SOLID WHITE)
	TEMP. PVMT. MESSAGE, MARKING, REMOVABLE, LANE INDICATION ARROW

Diagram illustrating the plan view of Section "A-A" for the proposed 10-foot travel lane. The diagram shows a cross-section of the road with the following dimensions and components:

- 10' TRAVEL LANE:** The main travel lane, indicated by a dashed line and an upward arrow.
- 5' BIKE LANE:** The adjacent bike lane, indicated by a dashed line.
- 1' WORK ZONE:** The work zone area, indicated by a hatched rectangle.
- Dimensions:** The total width of the travel lane and bike lane is 15 feet (10' + 5'). The work zone is 1 foot wide.
- Section "A-A":** The section line is labeled "SECTION 'A-A'" with a scale of "Scale: None".
- Truck:** A truck is shown positioned at the start of the work zone.

NOTE:
Construction Design Speed
= 25 mph

NOTES:

1. ACCESS TO ALL DRIVES AND APPROACHES SHALL BE MAINTAINED AT ALL TIMES.
2. ALL STATION CALLOUTS FROM LINE "S-IN" OR LINE "S-3RD" UNLESS OTHERWISE NOTED.
3. ALL SIGNS SHALL MEET THE LATEST INDIANA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (IMUTCD) REQUIREMENTS.
4. THE TYPICAL SPACING FOR DRUMS SHALL BE 25' OR AS OTHERWISE DIRECTED BY THE ENGINEER.
5. THE LOCATIONS OF SIGNS AND TRAFFIC CONTROL DEVICES SHOWN ON THE PLANS ARE APPROXIMATE AND SHALL BE ADJUSTED AS DIRECTED BY THE ENGINEER.



RECOMMENDED FOR APPROVAL  9/30/2020
DESIGN ENGINEER DATE

DESIGNED: _____ JAJ _____	DRAWN: _____ JAJ _____
CHECKED: _____ KMH _____	CHECKED: _____ KMH _____

CITY OF BLOOMINGTON, INDIANA

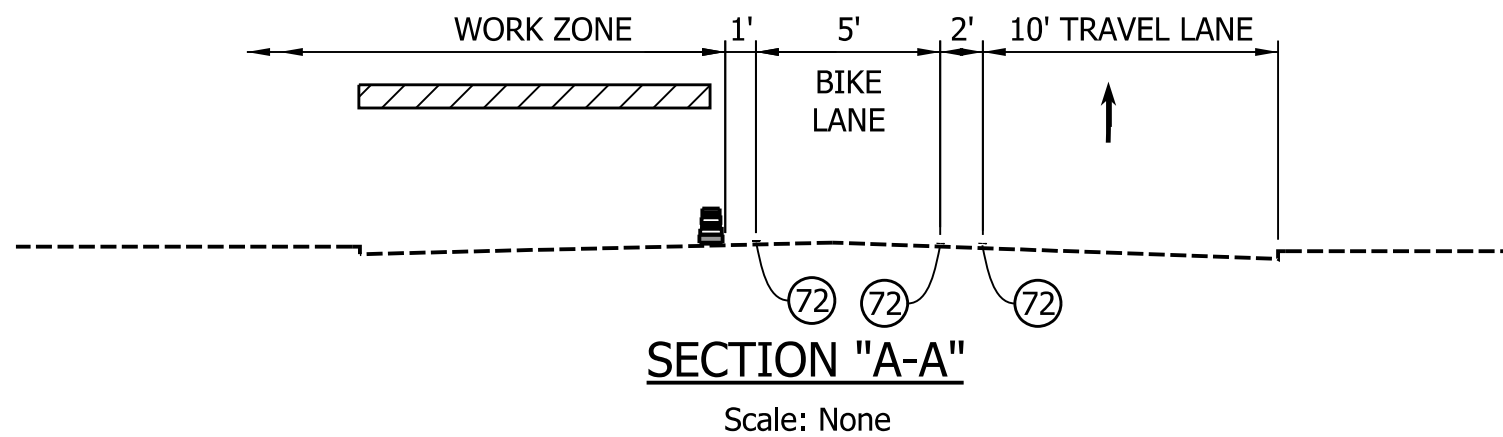
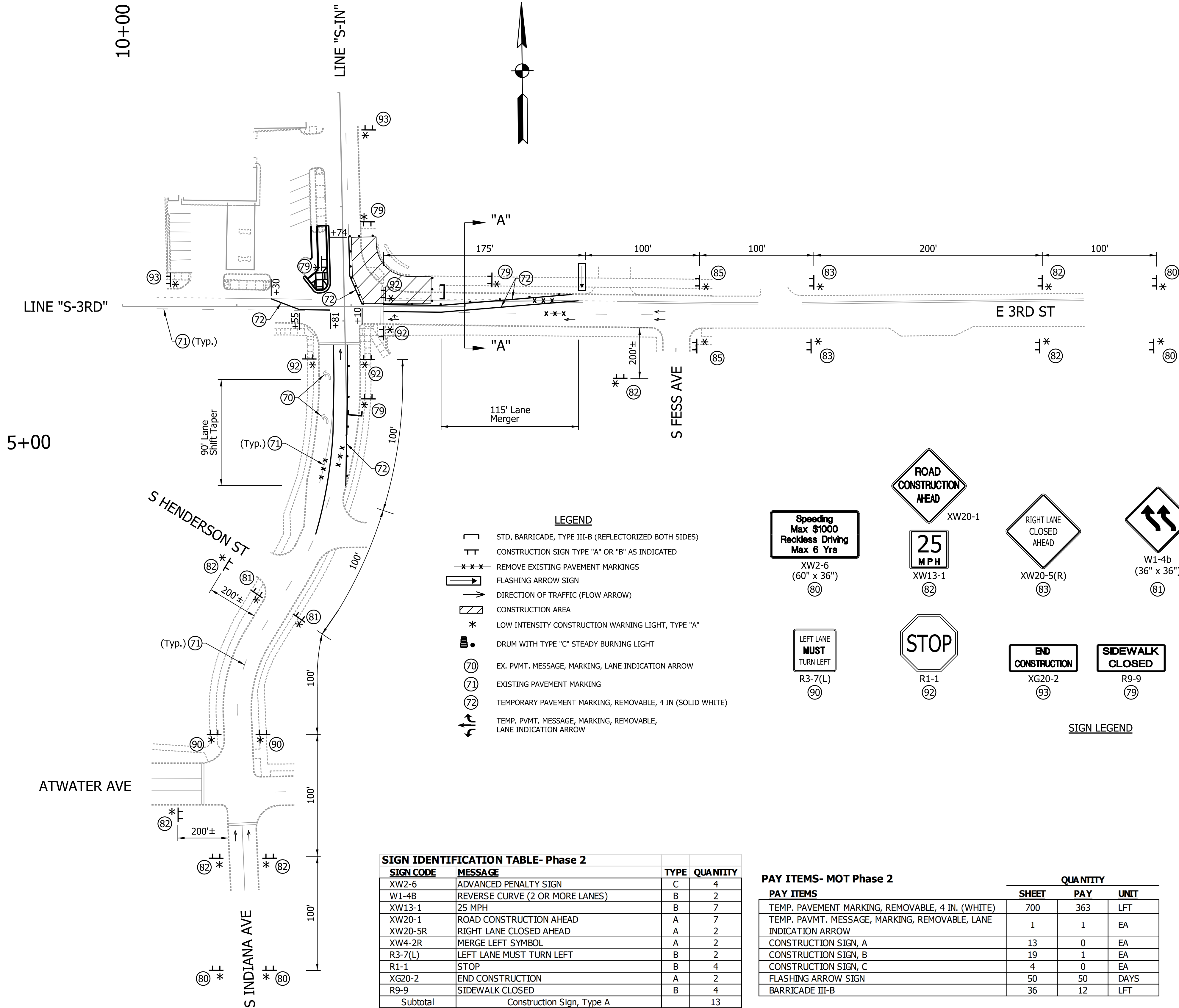
MAINTENANCE OF TRAFFIC PHASE I

HORIZONTAL SCALE	BRIDGE FILE
1" = 50'	
VERTICAL SCALE	DESIGNATION
NONE	XXXXXXX

SURVEY BOOK	SHEETS		
	4	of	13
CONTRACT	PROJECT		
XXXXX	XXXXXXXX		

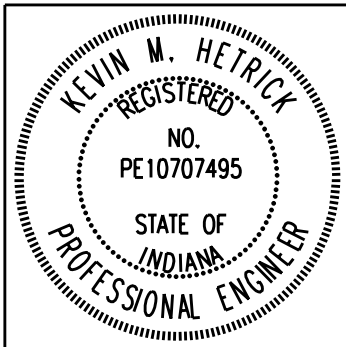
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NOTES:

- ACCESS TO ALL DRIVES AND APPROACHES SHALL BE MAINTAINED AT ALL TIMES.
- ALL STATION CALLOUTS FROM LINE "S-IN" OR LINE "S-3RD" UNLESS OTHERWISE NOTED.
- ALL SIGNS SHALL MEET THE LATEST INDIANA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (IMUTCD) REQUIREMENTS.
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- THE LOCATIONS OF SIGNS AND TRAFFIC CONTROL DEVICES SHOWN ON THE PLANS ARE APPROXIMATE AND SHALL BE ADJUSTED AS DIRECTED BY THE ENGINEER.



RECOMMENDED FOR APPROVAL

DESIGN ENGINEER

9/30/2020 DATE

DESIGNED: JAJ

CHECKED: KMH

DRAWN: JAJ

CHECKED: KMH

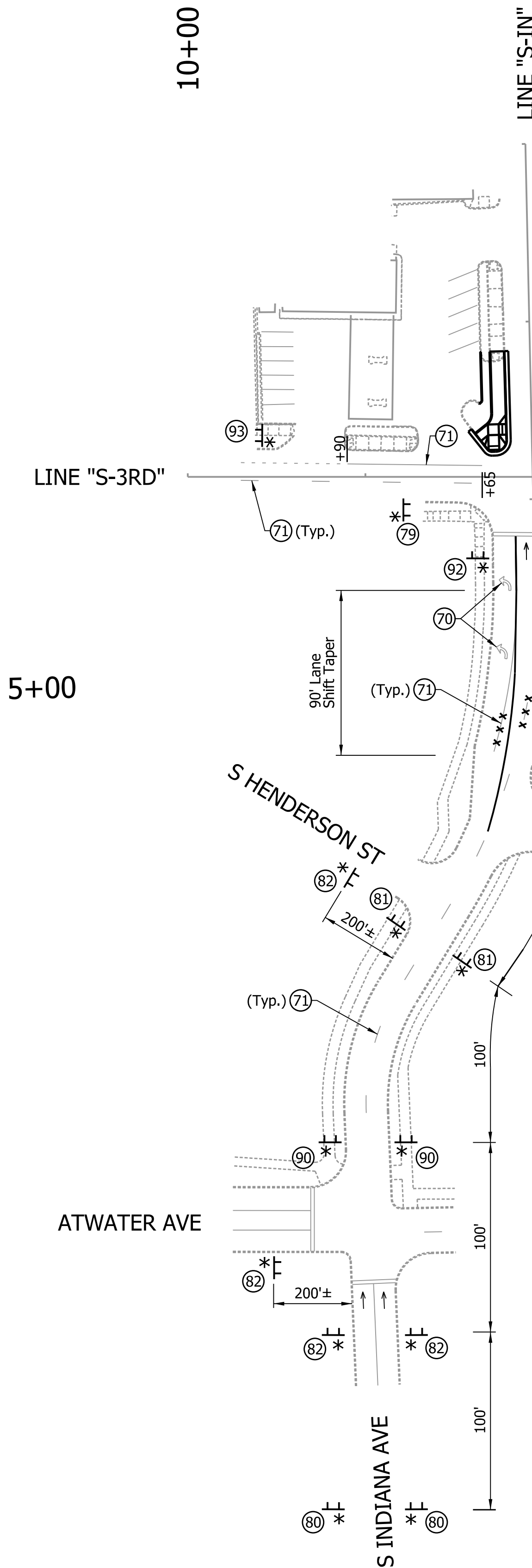
CITY OF BLOOMINGTON, INDIANA

MAINTENANCE OF TRAFFIC
PHASE II

HORIZONTAL SCALE	BRIDGE FILE
1" = 50'	
VERTICAL SCALE	DESIGNATION
NONE	XXXXXX
SURVEY BOOK	SHEETS
	5 of 13
CONTRACT	PROJECT
XXXXX	XXXXXX

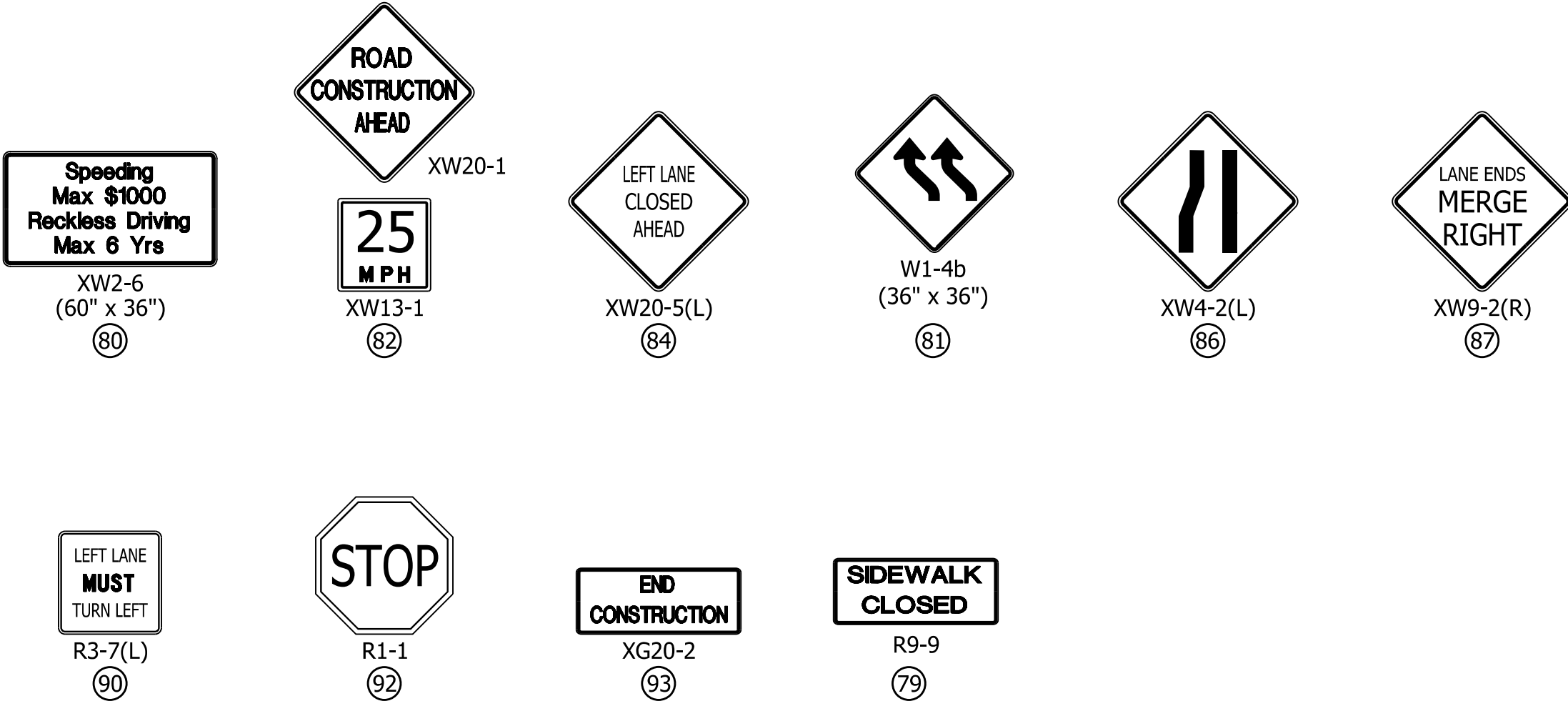
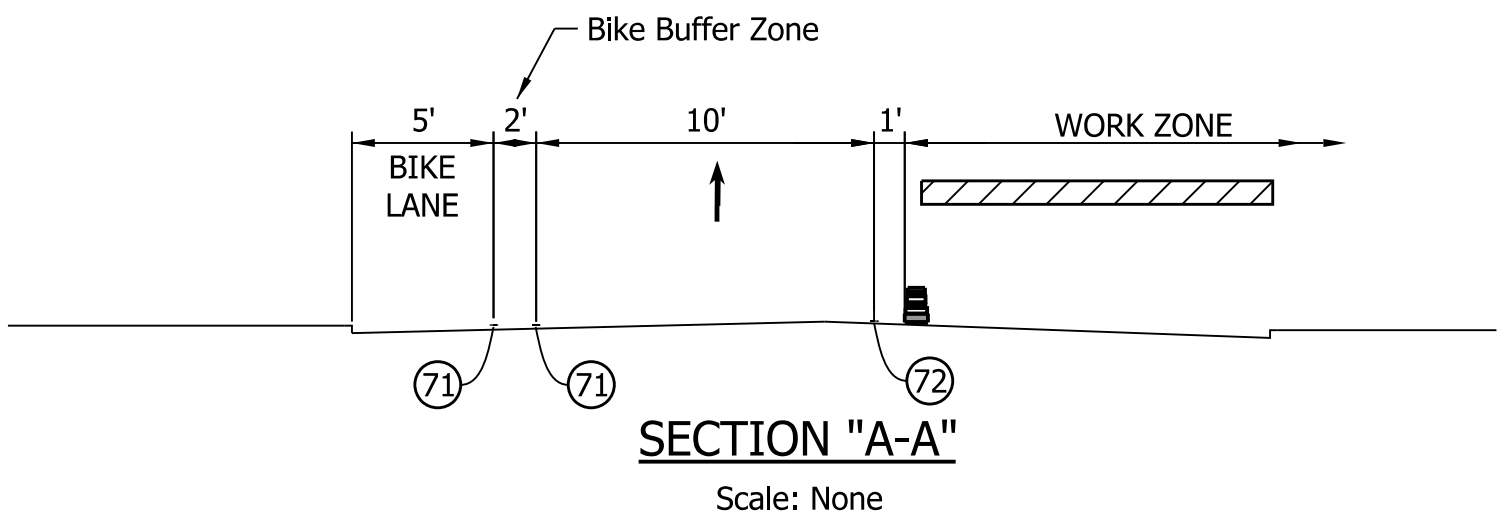
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SIGN IDENTIFICATION TABLE- Phase 3			
SIGN CODE	MESSAGE	TYPE	QUANTITY
XW2-6	ADVANCED PENALTY SIGN	C	4
W1-4B	REVERSE CURVE (2 OR MORE LANES)	B	2
XW13-1	25 MPH	B	7
XW20-1	ROAD CONSTRUCTION AHEAD	A	7
XW20-5L	LEFT LANE CLOSED AHEAD	A	2
XW4-2L	MERGE RIGHT SYMBOL	A	2
XW9-2R	LANE ENDS MERGE RIGHT	A	2
R3-7L	LEFT LANE MUST TURN LEFT	B	2
R1-1	STOP	B	4
XG20-2	END CONSTRUCTION	A	2
R9-9	SIDEWALK CLOSED	B	4
Subtotal	Construction Sign, Type A		15
Subtotal	Construction Sign, Type B		19
Subtotal	Construction Sign, Type C		4

- LEGEND**
- STD. BARRICADE, TYPE III-B (REFLECTORIZED BOTH SIDES)
 - CONSTRUCTION SIGN TYPE "A" OR "B" AS INDICATED
 - REMOVE EXISTING PAVEMENT MARKINGS
 - FLASHING ARROW SIGN
 - DIRECTION OF TRAFFIC (FLOW ARROW)
 - CONSTRUCTION AREA
 - LOW INTENSITY CONSTRUCTION WARNING LIGHT, TYPE "A"
 - DRUM WITH TYPE "C" STEADY BURNING LIGHT
 - EX. PVMT. MESSAGE, MARKING, LANE INDICATION ARROW
 - EXISTING PAVEMENT MARKING
 - TEMPORARY PAVEMENT MARKING, REMOVABLE, 4 IN (SOLID WHITE)
 - TEMP. PVMT. MESSAGE, MARKING, REMOVABLE, LANE INDICATION ARROW



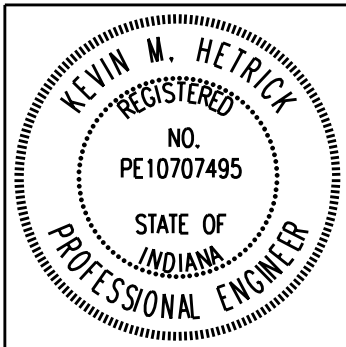
PAY ITEMS- MOT Phase 3

PAY ITEMS	QUANTITY		
	SHEET	PAY	UNIT
TEMP. PAVEMENT MARKING, REMOVABLE, 4 IN. (WHITE)	474	227	LFT
CONSTRUCTION SIGN, A	15	2	EA
CONSTRUCTION SIGN, B	19	0	EA
CONSTRUCTION SIGN, C	4	0	EA
FLASHING ARROW SIGN	50	50	DAYS
BARRICADE III-B	36	0	LFT
LINE REMOVE	220	220	LFT

NOTE:
Construction Design Speed
= 25 mph

NOTES:

- ACCESS TO ALL DRIVES AND APPROACHES SHALL BE MAINTAINED AT ALL TIMES.
- ALL STATION CALLOUTS FROM LINE "S-IN" OR LINE "S-3RD" UNLESS OTHERWISE NOTED.
- ALL SIGNS SHALL MEET THE LATEST INDIANA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (IMUTCD) REQUIREMENTS.
- THE TYPICAL SPACING FOR DRUMS SHALL BE 25' OR AS OTHERWISE DIRECTED BY THE ENGINEER.
- THE LOCATIONS OF SIGNS AND TRAFFIC CONTROL DEVICES SHOWN ON THE PLANS ARE APPROXIMATE AND SHALL BE ADJUSTED AS DIRECTED BY THE ENGINEER.



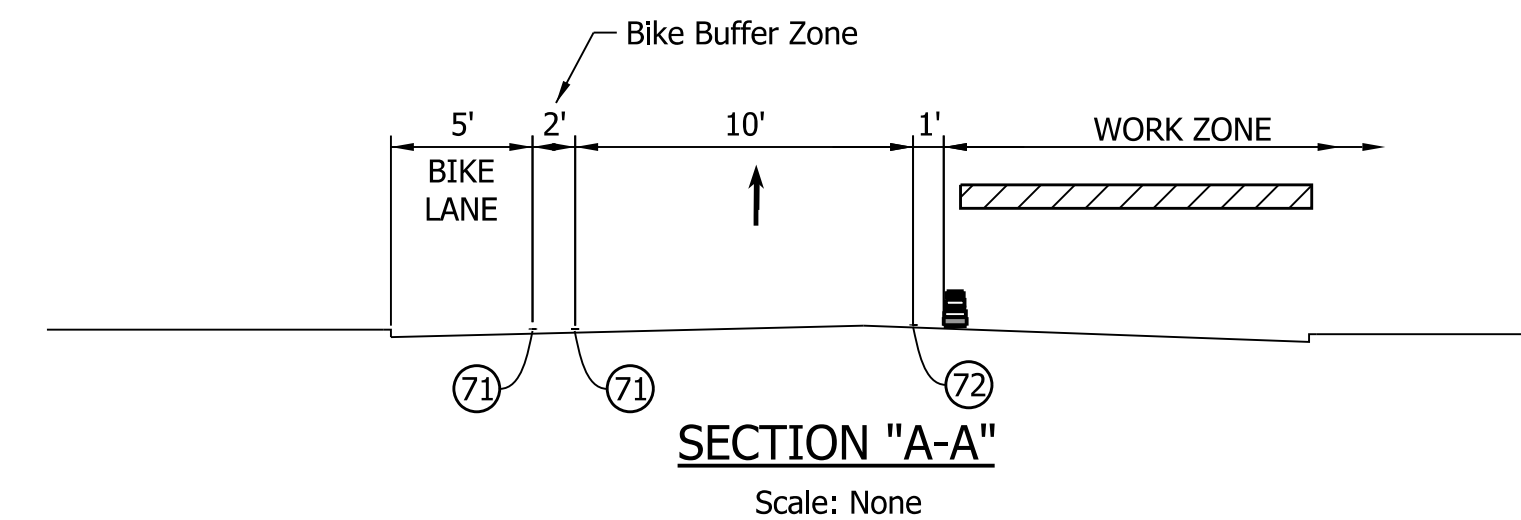
RECOMMENDED FOR APPROVAL *[Signature]* 9/30/2020
DESIGN ENGINEER DATE

DESIGNED: JAJ DRAWN: JAJ
CHECKED: KMH CHECKED: KMH

CITY OF BLOOMINGTON, INDIANA

MAINTENANCE OF TRAFFIC
PHASE III

HORIZONTAL SCALE	BRIDGE FILE
1" = 50'	
VERTICAL SCALE	DESIGNATION
NONE	XXXXXXX
SURVEY BOOK	SHEETS
	6 of 13
CONTRACT	PROJECT
XXXXX	XXXXXXX



<u>LEGEND</u>	
	STD. BARRICADE, TYPE III-B (REFLECTORIZED BOTH SIDES)
	CONSTRUCTION SIGN TYPE "A" OR "B" AS INDICATED
	FLASHING ARROW SIGN
	DIRECTION OF TRAFFIC (FLOW ARROW)
	CONSTRUCTION AREA
	LOW INTENSITY CONSTRUCTION WARNING LIGHT, TYPE "A"
	DRUM WITH TYPE "C" STEADY BURNING LIGHT
	EX. PVMT. MESSAGE, MARKING, LANE INDICATION ARROW
	EXISTING PAVEMENT MARKING
	TEMPORARY PAVEMENT MARKING, REMOVABLE, 4 IN (SOLID WHITE)
	TEMP. PVMT. MESSAGE, MARKING, REMOVABLE, LANE INDICATION ARROW

NOTE:
Construction Design Speed
= 25 mph

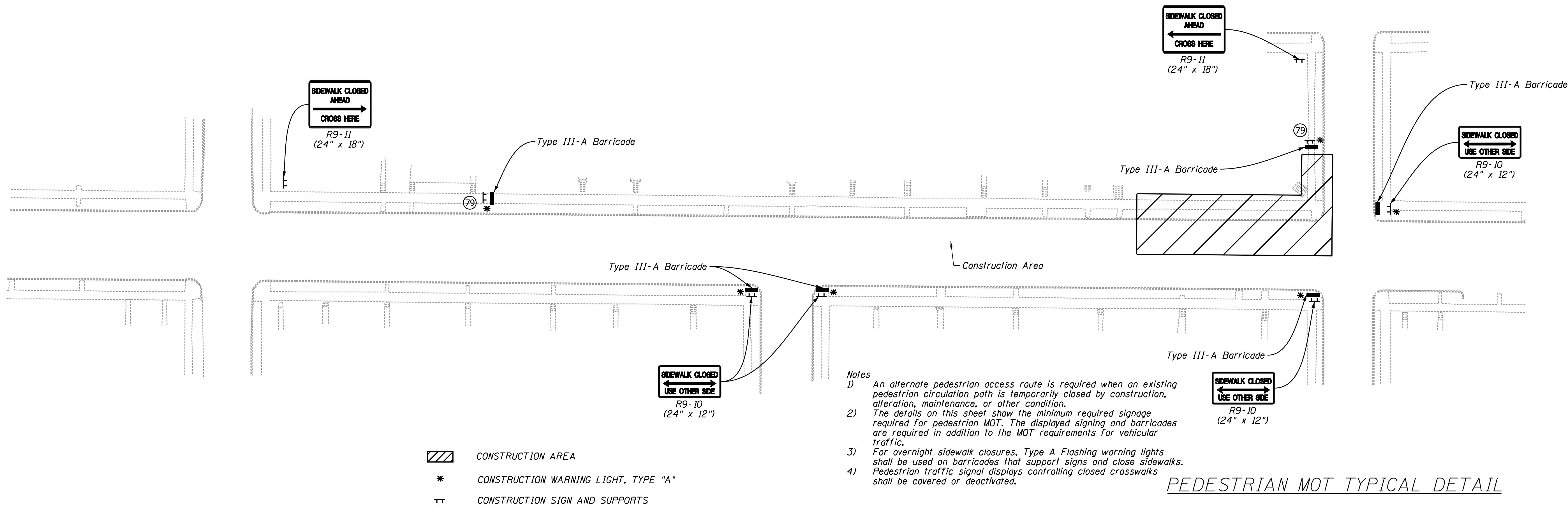
NOTES:

1. ACCESS TO ALL DRIVES AND APPROACHES SHALL BE MAINTAINED AT ALL TIMES.
2. ALL STATION CALLOUTS FROM LINE "S-IN" OR LINE "S-3RD" UNLESS OTHERWISE NOTED.
3. ALL SIGNS SHALL MEET THE LATEST INDIANA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (IMUTCD) REQUIREMENTS.
4. THE TYPICAL SPACING FOR DRUMS SHALL BE 25' OR AS OTHERWISE DIRECTED BY THE ENGINEER.
5. THE LOCATIONS OF SIGNS AND TRAFFIC CONTROL DEVICES SHOWN ON THE PLANS ARE APPROXIMATE AND SHALL BE ADJUSTED AS DIRECTED BY THE ENGINEER.

HORIZONTAL SCALE	BRIDGE FILE		
1" = 50'			
VERTICAL SCALE	DESIGNATION		
NONE	XXXXXXXX		

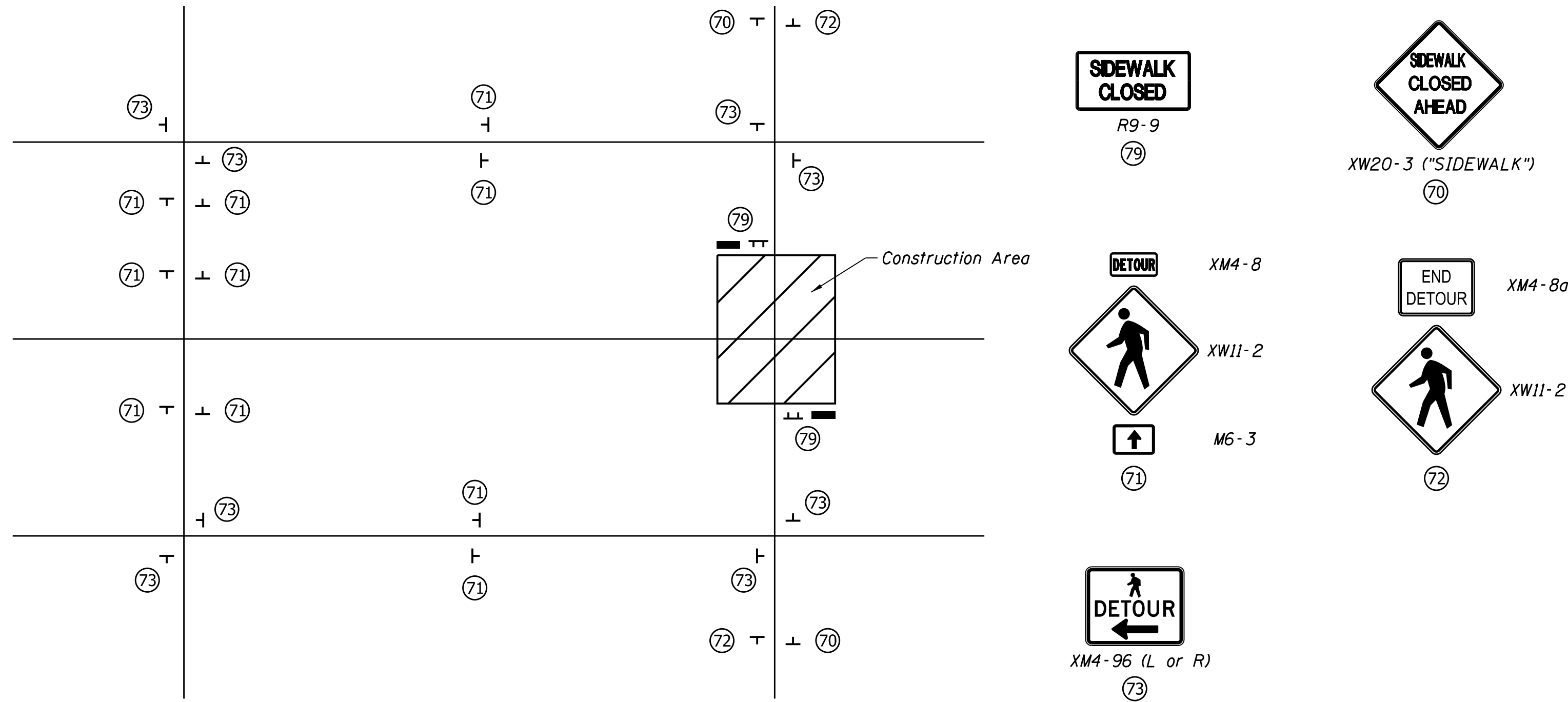
SURVEY BOOK		SHEETS	
	7	of	13
CONTRACT	PROJECT		
XXXXX	XXXXXXXX		

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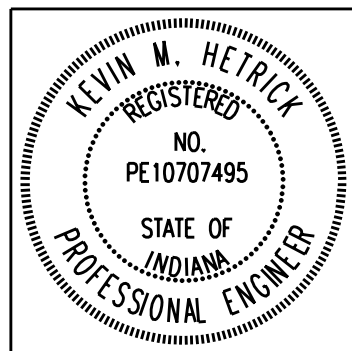


SIGN IDENTIFICATION TABLE- Pedestrian			
SIGN CODE	MESSAGE	TYPE	QUANTITY
R9-9	SIDEWALK CLOSED	B	*
XW20-3	SIDEWALK CLOSED AHEAD	B	2
XM4-8	DETOUR	B	10
XW11-2	PEDESTRIAN SYMBOL	B	12
M6-3	ARROW SYMBOL	B	10
XM4-8a	END DETOUR	B	2
XM4-96	PEDESTRIAN DETOUR SYMBOL	B	8
R9-10	SIDEWALK CLOSED USE OTHER SIDE	B	4
R9-11	SIDEWALK CLOSED AHEAD CROSS HERE	B	2
Subtotal	Construction Sign, Type B		50

**Quantified in MOT Phase Tables*



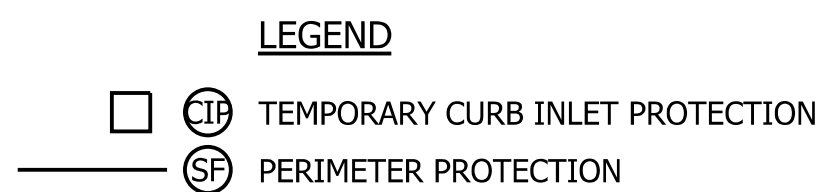
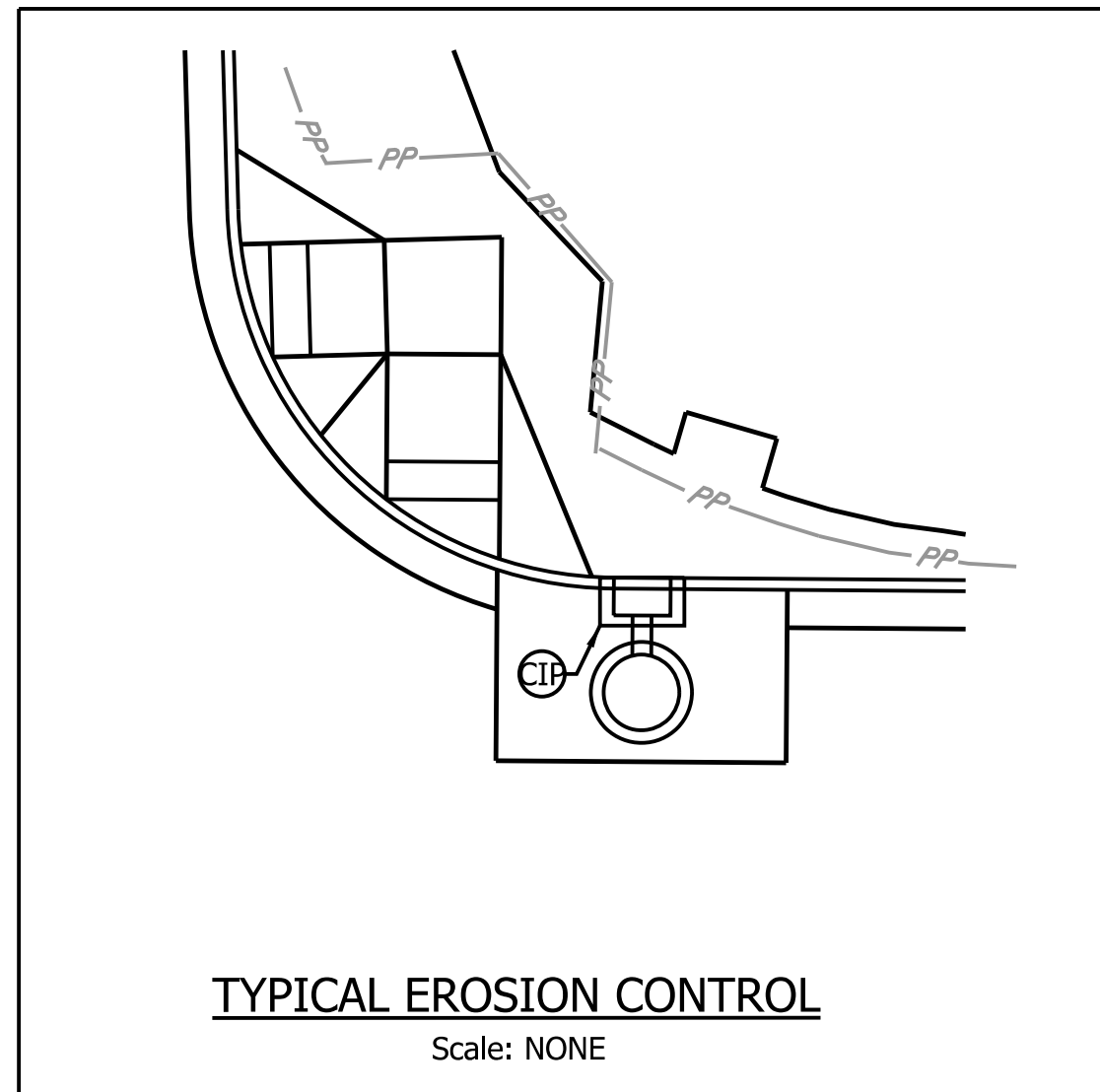
ClarkDietz



RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	9/30/2020	DATE
DESIGNED: JAJ	DRAWN: JAJ		
CHECKED: KMH	CHECKED: KMH		

CITY OF BLOOMINGTON, INDIANA
MAINTENANCE OF TRAFFIC PEDESTRIAN ACCESS

HORIZONTAL SCALE	BRIDGE FILE
1" = 50'	
VERTICAL SCALE	DESIGNATION
NONE	XXXXXX
SURVEY BOOK	SHEETS
	8 of 13
CONTRACT	PROJECT
XXXXX	XXXXXX



SEC 33, T9N, R1W
PERRY TWP.
MONROE COUNTY

10+00

[illegible]

SEC 4, T8N, R1W
PERRY TWP.
MONROE COUNTY

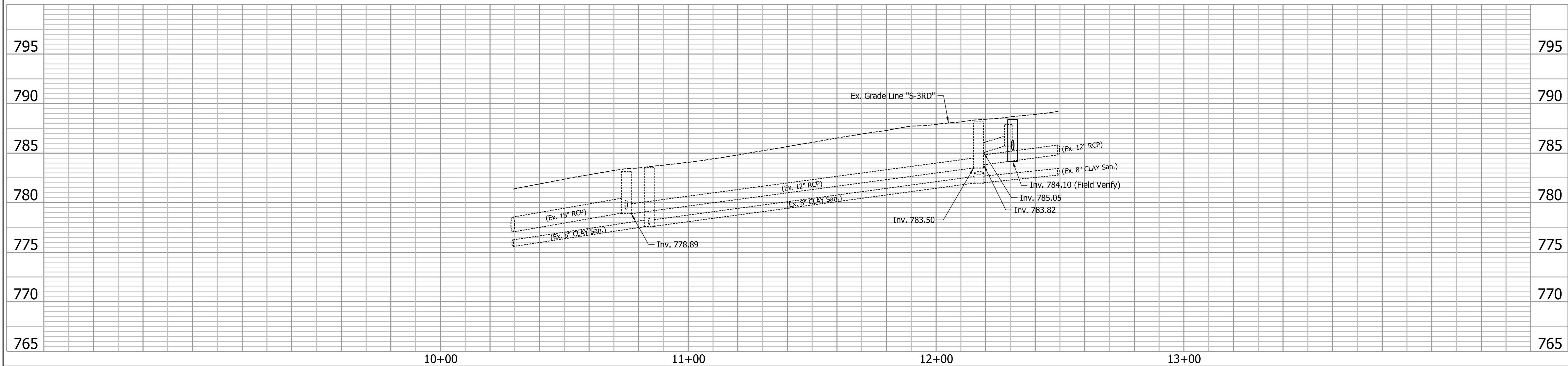
- LEGEND**
- (F) Sidewalk, Concrete, 4" PCCP on 3" Compacted Aggregate, 53.
 - (P) 165 #/Syd. HMA Surface, Type B on PCCP Patching, Full Depth^{^^} on Subgrade Treatment Type II
 - (R) Milling, Asphalt, (1.5" Depth) and 165 #/Syd. HMA Surface, Type B, on Asphalt Material for Tack Coat
 - (15) Concrete Vertical Curb +
 - (26) Sodding, Nursery
 - (31) Brick Pavers
 - (32) Hardwood Mulch
 - (1) Paired Perpendicular Conc. Curb Ramp
 - (2) Blended Transition Conc. Curb Ramp

NOTE:

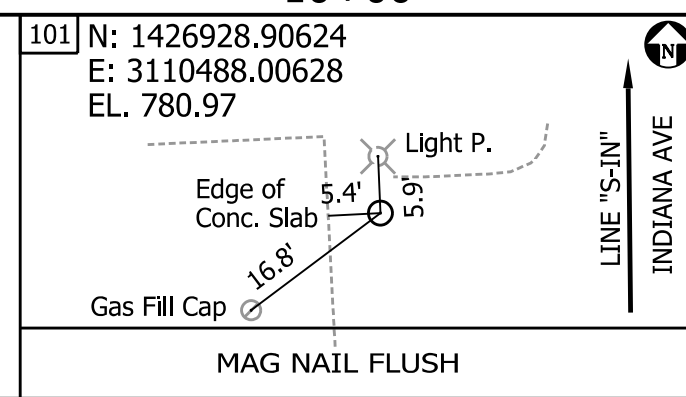
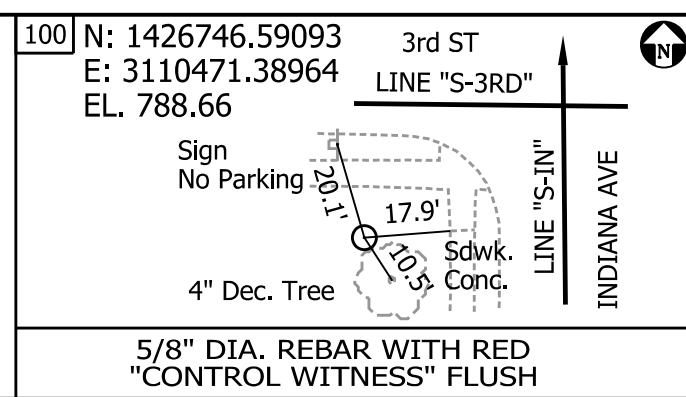
- ^^ SEE BLOOMINGTON STANDARD DRAWING SC-2
- * DRIVEWAY PAVEMENT REMOVAL SHALL BE INCLUDED IN THE PAVEMENT REMOVAL PAY ITEM.
- + SEE CONCRETE CURB (VERTICAL) ON INDOT STANDARD DRAWING E 605-CCSJ-01

Rev. 11/10/2020

All R/W described from Line "S-3RD" or Line "S-IN".
See Intersection Details for additional information.



Clark>Dietz



Revisions:
11/10/2020



RECOMMENDED FOR APPROVAL  9/30/2020
DESIGN ENGINEER DATE

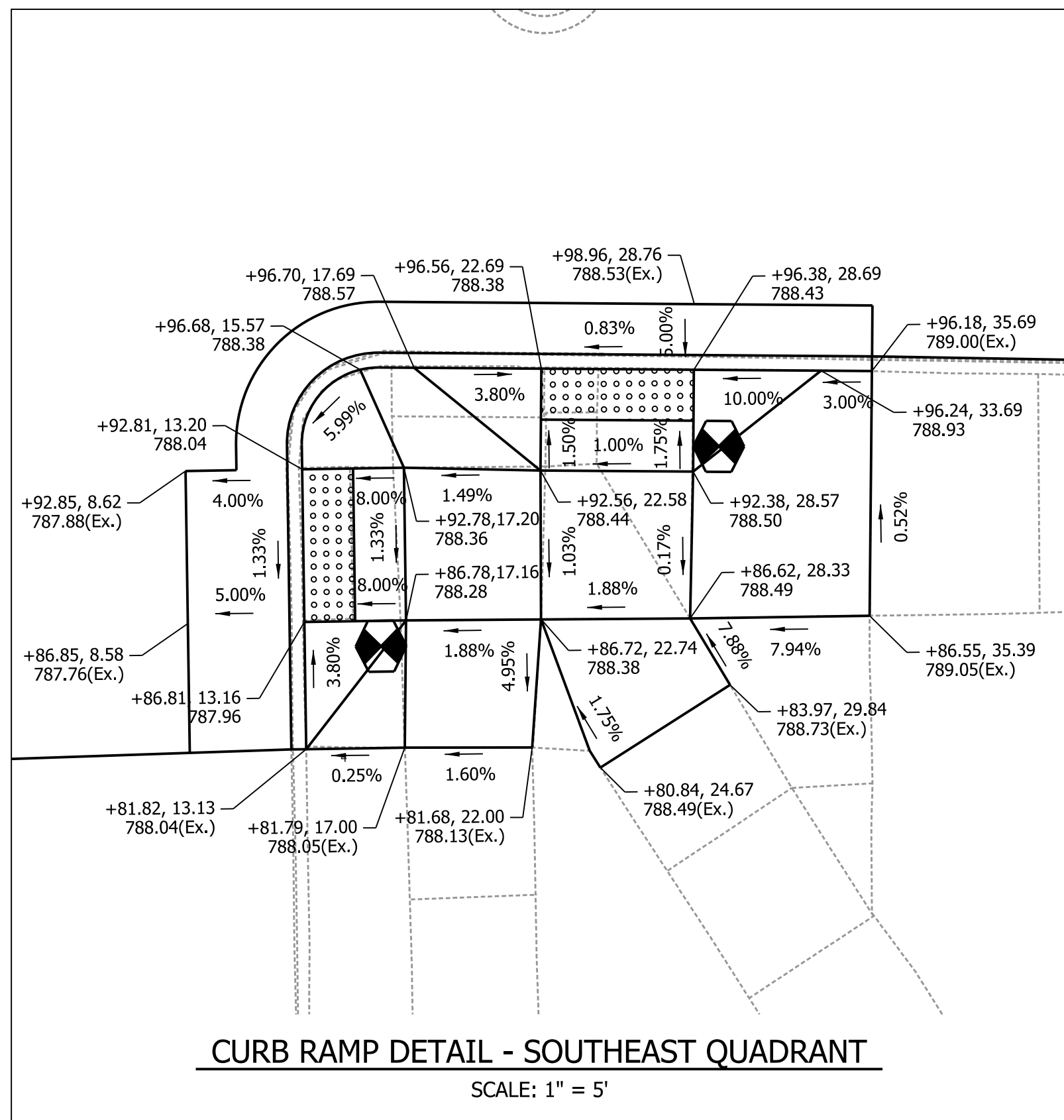
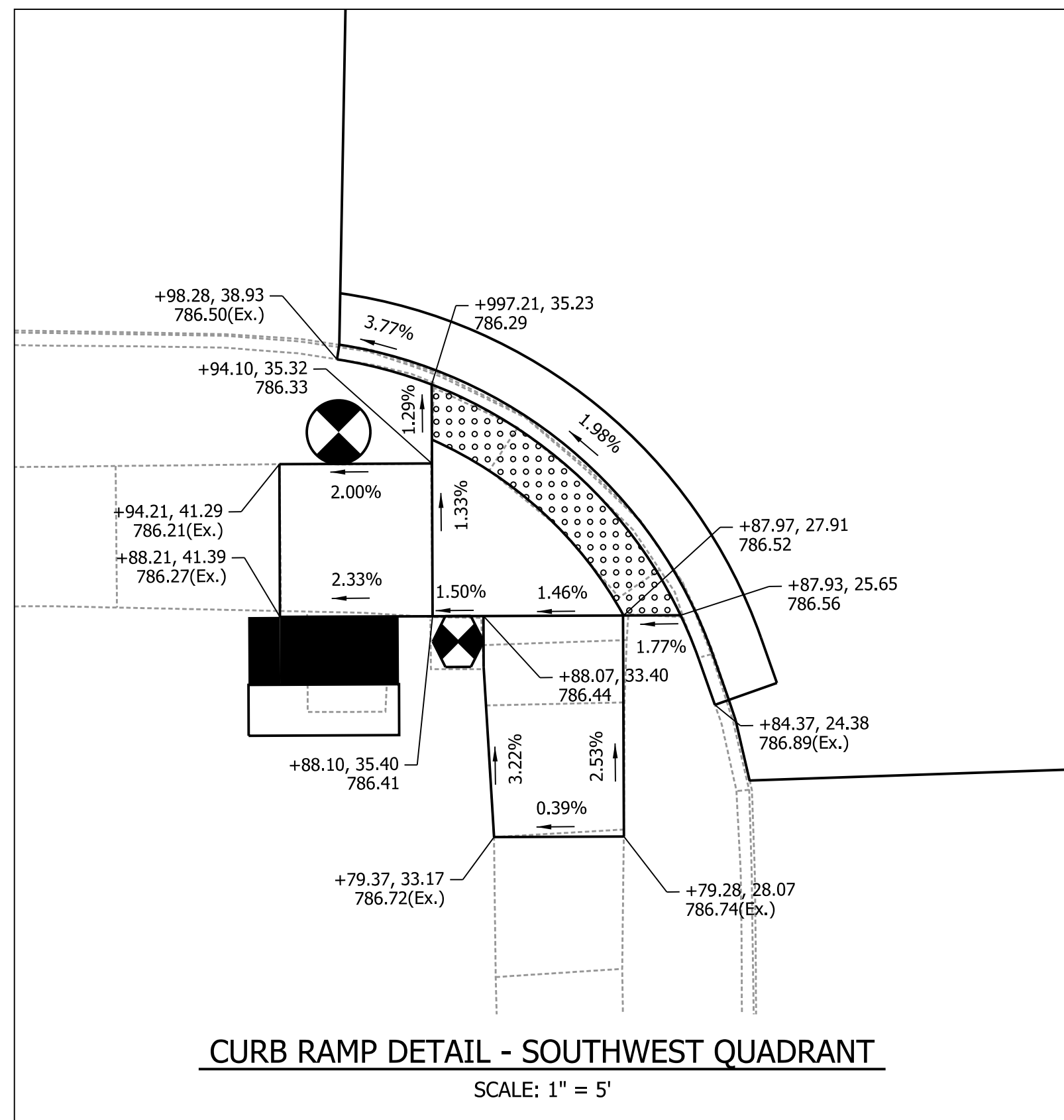
DESIGNED: _____ JAJ	DRAWN: _____ JAJ
CHECKED: _____ KMH	CHECKED: _____ KMH

CITY OF BLOOMINGTON, INDIANA

STORM SEWER PROFILE & TOPOGRAPHY NOTES

HORIZONTAL SCALE	BRIDGE FILE		
1" = 20'			
VERTICAL SCALE	DESIGNATION		
1" = 5'	XXXXXXXX		

SURVEY BOOK		SHEETS	
	9	of	13
CONTRACT	PROJECT		
XXXXX	XXXXXXXX		

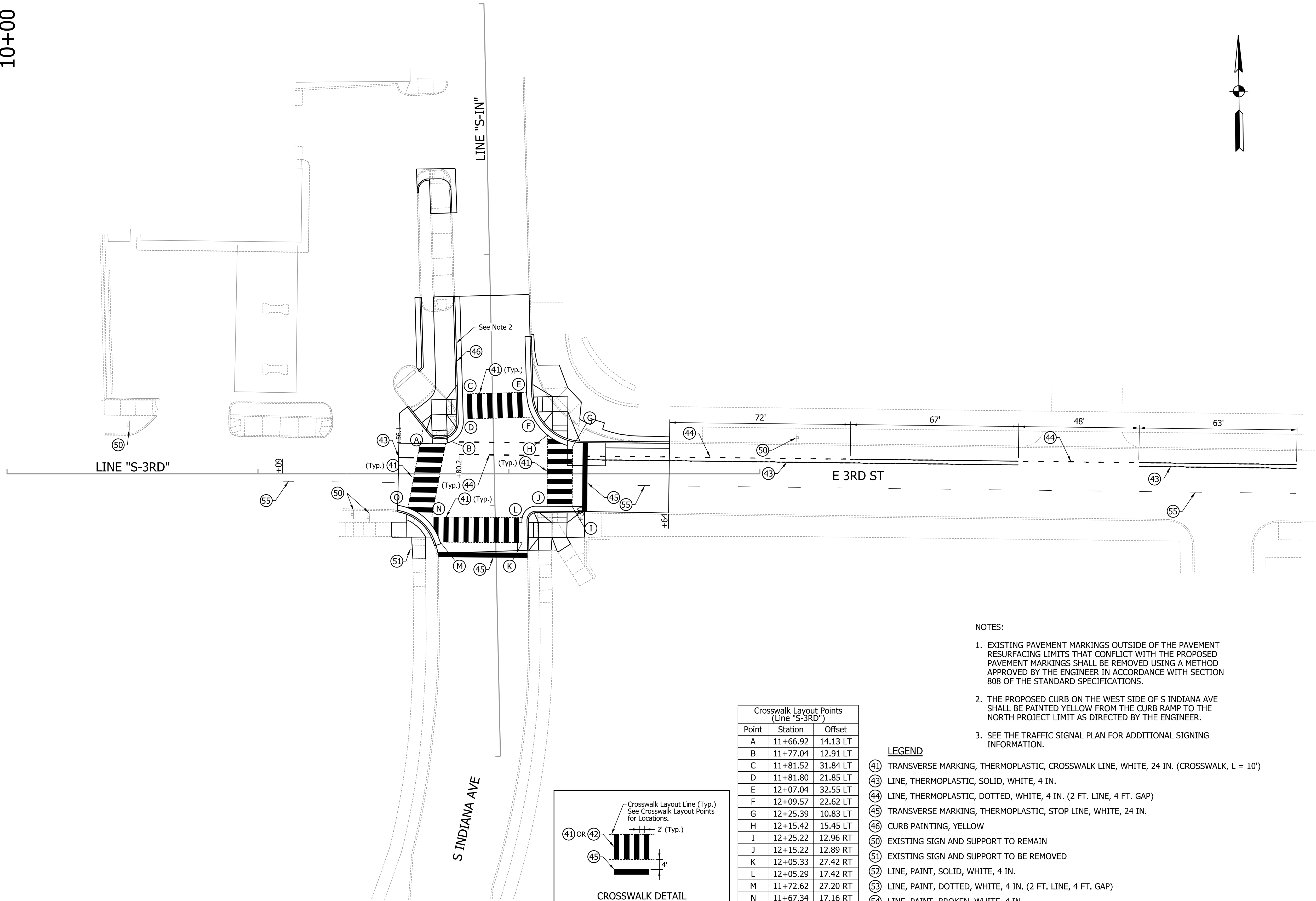


HORIZONTAL SCALE		BRIDGE FILE	
1" = 10'			
VERTICAL SCALE		DESIGNATION	
NONE		XXXXXXX	
SURVEY BOOK		SHEETS	
	10	of	13
CONTRACT		PROJECT	
XXXXX		XXXXXXX	

2/25/2020 11:11:11 PM 11/11/2020 P:\B0270060_Bloomington IN - 3rd St at Indiana Ave\Design\Plans\Pvmt\Mrk\Sign\Mrk01.dgn

5+00

10+00



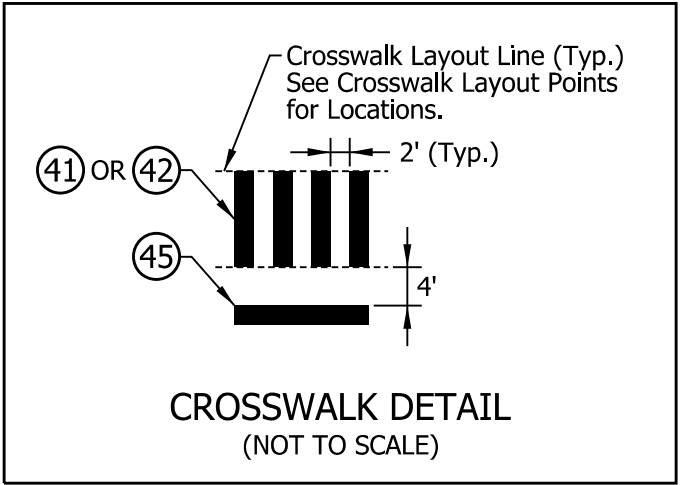
NOTES:

- EXISTING PAVEMENT MARKINGS OUTSIDE OF THE PAVEMENT RESURFACING LIMITS THAT CONFLICT WITH THE PROPOSED PAVEMENT MARKINGS SHALL BE REMOVED USING A METHOD APPROVED BY THE ENGINEER IN ACCORDANCE WITH SECTION 808 OF THE STANDARD SPECIFICATIONS.
- THE PROPOSED CURB ON THE WEST SIDE OF S INDIANA AVE SHALL BE PAINTED YELLOW FROM THE CURB RAMP TO THE NORTH PROJECT LIMIT AS DIRECTED BY THE ENGINEER.
- SEE THE TRAFFIC SIGNAL PLAN FOR ADDITIONAL SIGNING INFORMATION.

LEGEND

- 41 TRANSVERSE MARKING, THERMOPLASTIC, CROSSWALK LINE, WHITE, 24 IN. (CROSSWALK, L = 10')
- 43 LINE, THERMOPLASTIC, SOLID, WHITE, 4 IN.
- 44 LINE, THERMOPLASTIC, DOTTED, WHITE, 4 IN. (2 FT. LINE, 4 FT. GAP)
- 45 TRANSVERSE MARKING, THERMOPLASTIC, STOP LINE, WHITE, 24 IN.
- 46 CURB PAINTING, YELLOW
- 50 EXISTING SIGN AND SUPPORT TO REMAIN
- 51 EXISTING SIGN AND SUPPORT TO BE REMOVED
- 52 LINE, PAINT, SOLID, WHITE, 4 IN.
- 53 LINE, PAINT, DOTTED, WHITE, 4 IN. (2 FT. LINE, 4 FT. GAP)
- 54 LINE, PAINT, BROKEN, WHITE, 4 IN.
- 55 LINE, THERMOPLASTIC, BROKEN, WHITE, 4 IN.

Crosswalk Layout Points (Line "S-3RD")		
Point	Station	Offset
A	11+66.92	14.13 LT
B	11+77.04	12.91 LT
C	11+81.52	31.84 LT
D	11+81.80	21.85 LT
E	12+07.04	32.55 LT
F	12+09.57	22.62 LT
G	12+25.39	10.83 LT
H	12+15.42	15.45 LT
I	12+25.22	12.96 RT
J	12+15.22	12.89 RT
K	12+05.33	27.42 RT
L	12+05.29	17.42 RT
M	11+72.62	27.20 RT
N	11+67.34	17.16 RT
O	11+58.16	13.03 RT



ClarkDietz



RECOMMENDED FOR APPROVAL  DESIGN ENGINEER		9/30/2020 DATE
DESIGNED: JAJ	DRAWN: JAJ	
CHECKED: KMH	CHECKED: KMH	

CITY OF BLOOMINGTON, INDIANA

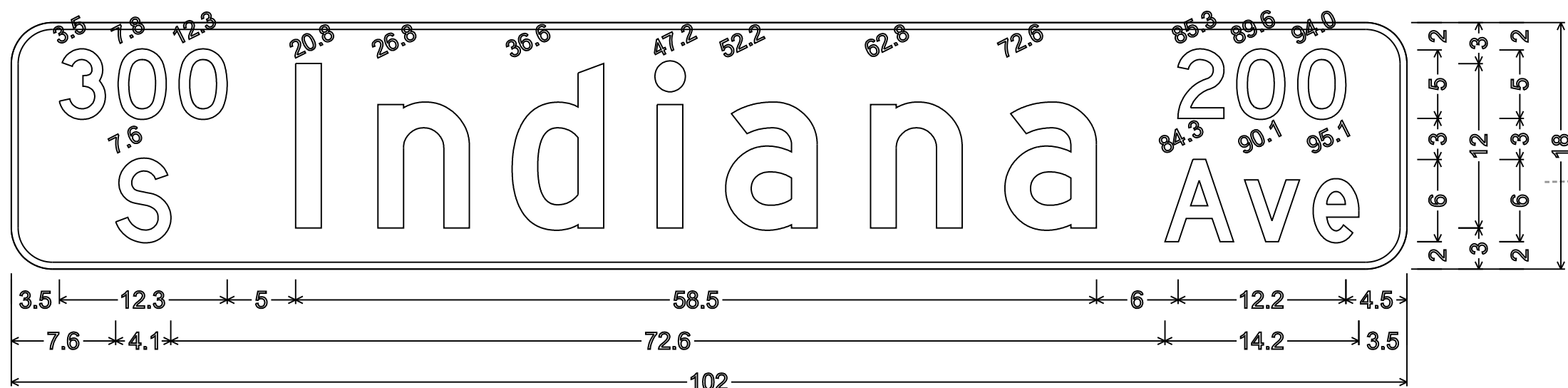
SIGNING & STRIPING PLAN
LINE "S-3RD"

HORIZONTAL SCALE 1" = 20'	BRIDGE FILE	
VERTICAL SCALE NONE	DESIGNATION XXXXXX	
SURVEY BOOK	SHEETS	
CONTRACT XXXXX	11 of 13	PROJECT XXXXXX

PROJECT NO. N/A

COMM. NO. N/A

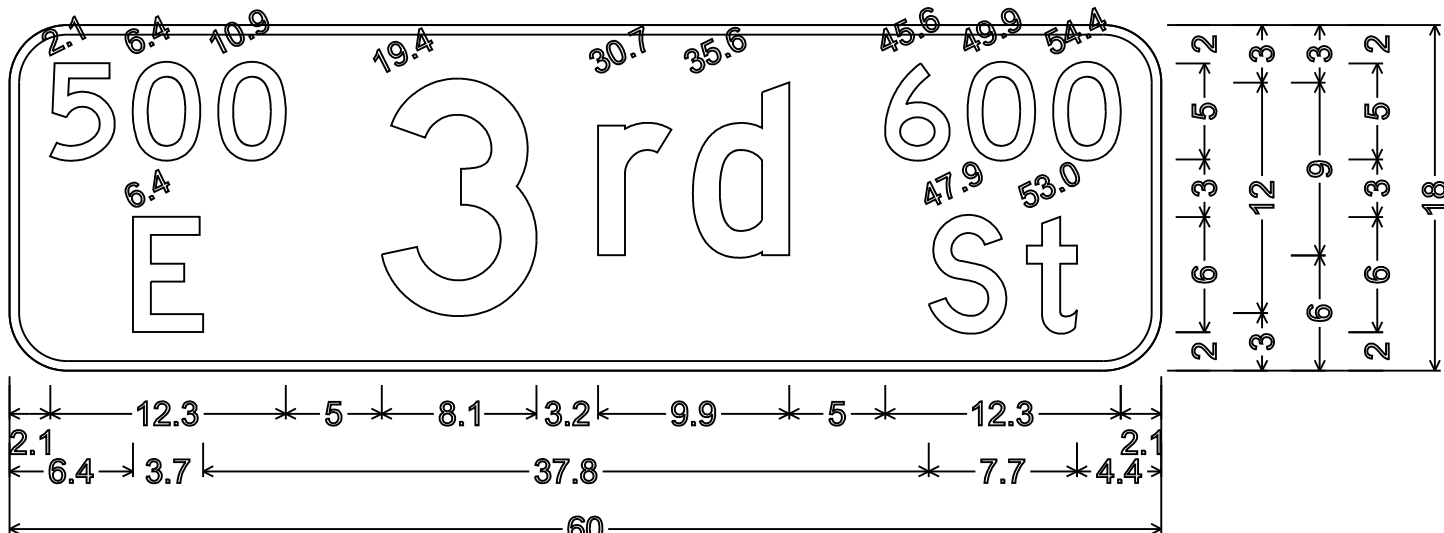
D3-1 SIGN DETAILS



3.0" Radius, 0.5" Border, White on Green;
*300" D; *S" D; *Indiana" D; *200" D; *Ave" D;

Pedestal and Mast Arm Data (Line "S-3RD")			
No.	Station	Offset	Description
P1	11+65.65	30.41 LT	Signal Dual Arm Cantilever Structure
P2	11+76.19	22.69 LT	Signal Pedestal 15'
P3	12+16.46	23.78 LT	Signal Pedestal 15'
P4	12+24.18	18.54 RT	Signal Pedestal 11'
P5	12+10.90	26.39 RT	Signal Pedestal 15'
P6	11+60.32	26.21 RT	Signal Pedestal 15'

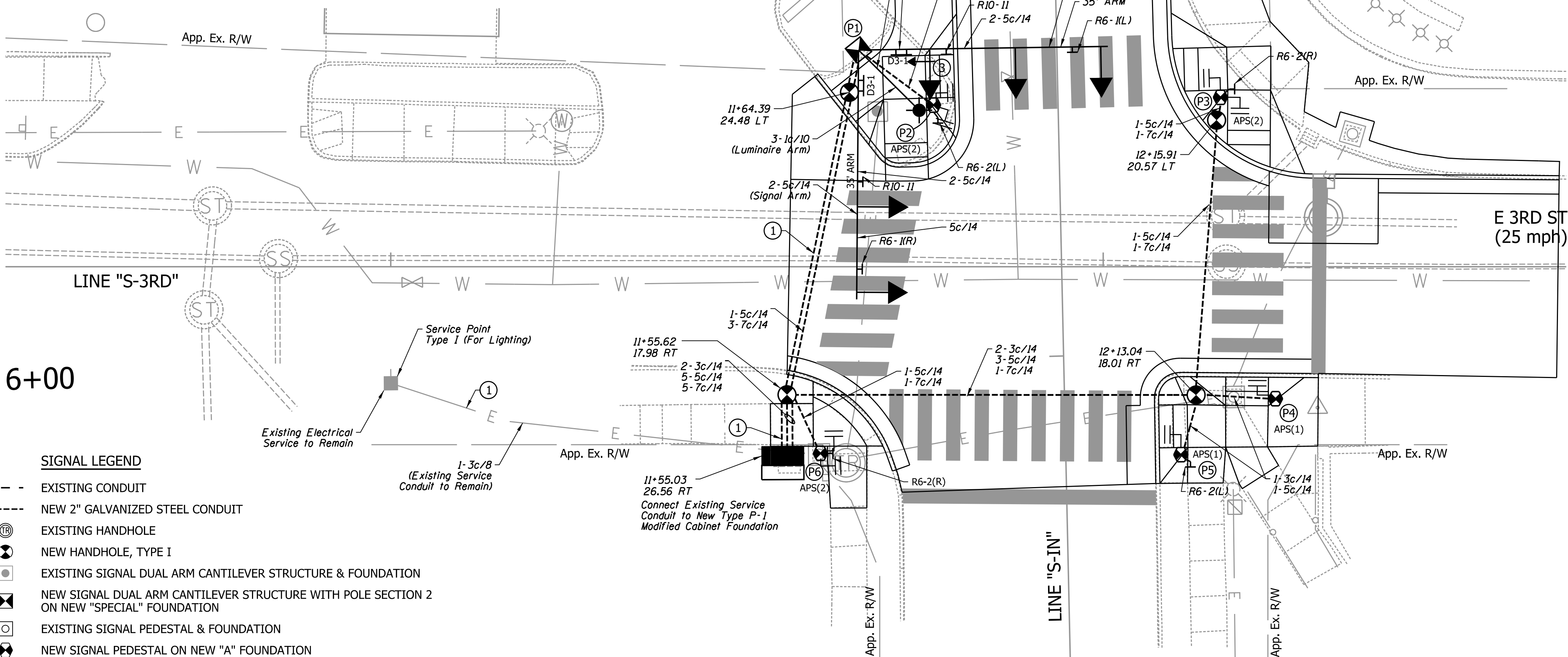
D3-1 SIGN DETAILS



3.0" Radius, 0.5" Border, White on Green;
*500" D; *E" D; *3rd" D; *600" D; *St" D;

NOTES:

- THE EXISTING ELECTRICAL SERVICE SHALL REMAIN AND BE REUSED FOR THE NEW TRAFFIC SIGNAL INSTALLATION.
- THE CONTRACTOR SHALL LEAVE A NYLON PULL CORD IN ALL CONDUITS.
- THE COMBINATION MAST ARM ASSEMBLY SHALL CONSIST OF DUAL 35' CANTILEVER SIGNAL MAST ARMS AND A SINGLE 12' TRUSS-TYPE ARM FOR THE LUMINAIRE. THE MOUNTING HEIGHT OF THE LUMINAIRE SHALL BE 35'.
- THE LUMINAIRE SHALL BE EQUIPPED WITH AN INDIVIDUAL PHOTOCELL.
- LIGHTING CABLE SHALL BE PLACED IN ITS OWN CONDUIT, SEPARATE FROM SIGNAL CABLE.
- SEE THE SIGNING & STRIPING PLAN FOR EXACT PAVEMENT MARKINGS.
- ALL EXISTING TRAFFIC SIGNAL EQUIPMENT, INCLUDING ALL SIGNAL CABLE AND SIGNAL HANDHOLES, SHALL BE REMOVED UNLESS OTHERWISE NOTED ON THE PLANS OR DIRECTED BY THE ENGINEER. PORTIONS OF THE EXISTING CONDUITS THAT INTERFERE IN ANY WAY WITH THE PROPOSED CONSTRUCTION SHALL BE REMOVED. EXISTING CONDUITS THAT DO NOT INTERFERE WITH THE PROPOSED CONSTRUCTION SHALL BE CAPPED AND ABANDONED IN PLACE UNLESS OTHERWISE DIRECTED BY THE ENGINEER. THE COST OF ALL LABOR, MATERIALS, AND EQUIPMENT REQUIRED FOR THIS WORK SHALL BE INCLUDED IN THE COST OF TRAFFIC SIGNAL EQUIPMENT, REMOVE, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED. THE REMOVAL OF INDIVIDUAL ITEMS WILL NOT BE PAID FOR SEPARATELY. ITEMS TO BE SALVAGED AND RETURNED TO THE CITY OF BLOOMINGTON ARE SPECIFIED IN 805-T-084.
- THE EXISTING RADIO EQUIPMENT FOR THE TRAFFIC SIGNAL INTERCONNECT SHALL BE REMOVED FROM THE EXISTING CONTROLLER CABINET AND RETURNED TO THE CITY OF BLOOMINGTON.
- A SINGLE-POLE 15A CIRCUIT BREAKER SHALL BE PROVIDED IN THE NEW CONTROLLER CABINET FOR THE NEW LUMINAIRE.
- ALL EXISTING SIGNS MOUNTED TO TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED, EXCEPT THAT THE HONORARY STREET NAME SIGN ON THE EXISTING SIGNAL DUAL ARM CANTILEVER STRUCTURE SHALL BE INSTALLED ON THE NEW SIGNAL DUAL ARM CANTILEVER STRUCTURE AS DIRECTED BY THE ENGINEER. THE COST OF ALL LABOR, MATERIALS, AND EQUIPMENT REQUIRED FOR THIS WORK SHALL BE INCLUDED IN THE COST OF SIGN, SHEET, REMOVE, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED. REMOVAL AND REINSTALLATION OF THE HONORARY STREET NAME SIGN SHALL BE PAID FOR AS SIGN, SHEET, RELOCATE.
- THE COST TO REPAIR OR REPLACE DAMAGED OR LOST SALVAGEABLE TRAFFIC SIGNAL EQUIPMENT AND SIGNS SHALL BE AT NO ADDITIONAL COST TO THE CITY.
- THE PEDESTRIAN SIGNAL HEADS SHALL BE PLACED SO THAT THE HOUSINGS WILL BE ABLE TO BE OPENED WITHOUT REQUIRING THE PEDESTRIAN SIGNAL HEAD BE ROTATED OR MOVED.
- CONTRACTOR SHALL BE AWARE WHEN PROGRAMMING THE CONTROLLER THAT THE PHASING IS DIFFERENT AT THIS LOCATION WHEN COMPARED TO OTHER SIGNAL LOCATIONS ALONG 3RD STREET.
- THE CONTRACTOR SHALL INPUT THE SIGNAL TIMINGS, PROVIDED BY THE ENGINEER AT THE PRE-CONSTRUCTION MEETING. PRIOR TO SIGNAL EQUIPMENT INSTALLATION. IMPLEMENTATION OF SIGNAL TIMINGS SHALL BE INCLUDED IN THE COST OF CONTROLLER AND CABINET, P1.
- AN AI-500-085-02 GLANCE PREEMPT AND PRIORITY VIDEO CAPABLE FMU MANUFACTURED BY APPLIED INFORMATION SHALL BE PROVIDED IN THE CONTROLLER CABINET.



SIGNAL LEGEND

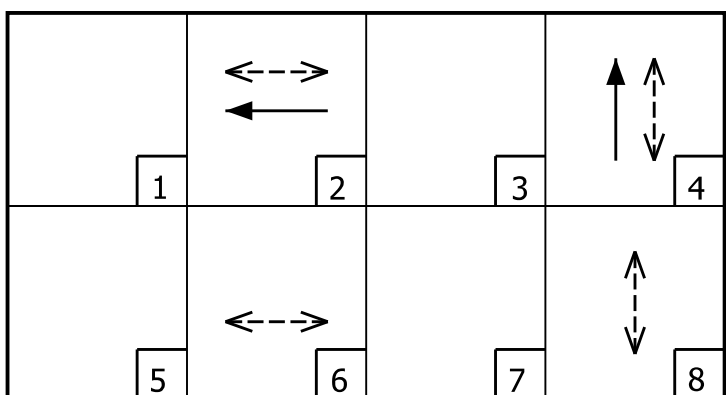
- EXISTING CONDUIT
- NEW 2" GALVANIZED STEEL CONDUIT
- EXISTING HANDHOLE
- NEW HANDHOLE, TYPE I
- EXISTING SIGNAL DUAL ARM CANTILEVER STRUCTURE & FOUNDATION
- NEW SIGNAL DUAL ARM CANTILEVER STRUCTURE WITH POLE SECTION 2 ON NEW "SPECIAL" FOUNDATION
- EXISTING SIGNAL PEDESTAL & FOUNDATION
- NEW SIGNAL PEDESTAL ON NEW "A" FOUNDATION
- NEW 1-WAY, 3-SECTION (12" RED, 12" AMBER, 12" GREEN) SIGNAL INDICATION WITH BACKPLATE
- 1-WAY, 3-SECTION (12" RED, 12" AMBER ARROW, 12" FLASHING AMBER ARROW) SIGNAL INDICATION WITH BACKPLATE
- EXISTING TRAFFIC SIGNAL CONTROLLER & CABINET
- NEW TS2 CONTROLLER & "P-1" CABINET WITH UNINTERRUPTIBLE POWER SUPPLY ON NEW "P-1 MODIFIED" FOUNDATION
- NEW PEDESTRIAN COUNTDOWN SIGNAL HEAD, INTERNATIONAL SYMBOLS, 18"
- NEW APS PUSH-BUTTON (QUANTITY SHOWN)
- NEW 120V LUMINAIRE WITH PHOTOCELL ON 12' TRUSS-TYPE ARM, 35' LUMINAIRE MOUNTING HEIGHT
- EXISTING UTILITY POLE
- NEW TRAFFIC SIGN (AS INDICATED)
- NEW STREET NAME SIGN (AS INDICATED)
- 1 WIRE, NO. 4 COPPER IN PLASTIC DUCT, 4-1/C

UTILITY LEGEND

- Ex. Electric Utilities
- Ex. Water Utilities
- Ex. Sanitary & Storm Sewer Utilities

SIGN LEGEND

- NO TURN ON RED
- ONE WAY
- ONE WAY
- 500 E 600 St
- 300 S Indiana 200 Ave
- ONE WAY
- ONE WAY
- D3-1 102"x18"



PHASE BLOCK DIAGRAM

NONE PREFERENTIAL
ALL RED FLASH

All callouts described from Line "S-3RD",
unless otherwise shown.

DESIGNED: JAJ
CHECKED: JAL

DRAWN: JAJ
CHECKED: JAL

DESIGNED BY: DATE:

CITY OF BLOOMINGTON, INDIANA

DESIGN ENGINEER

9/30/2020
DATE

TRAFFIC SIGNAL PLAN
S INDIANA AVENUE & E 3RD STREET
BLOOMINGTON, INDIANA
MONROE COUNTY

KEVIN M. HEIRICK
REGISTERED
NO. PE10707495
STATE OF INDIANA
PROFESSIONAL ENGINEER

CONTRACT NO.

SCALE: 1" = 10'

DES. NO.
XXXXX

PROJECT NO.
XXXXXX

SHEET
12

TOTAL
13

