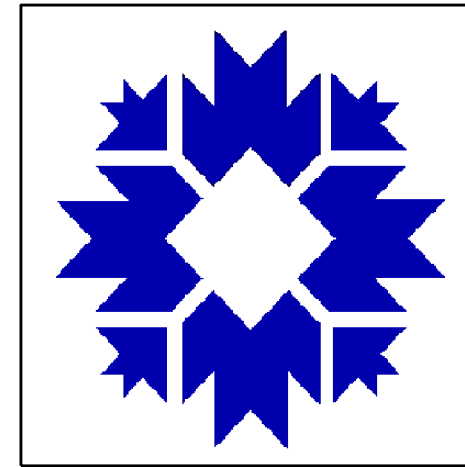
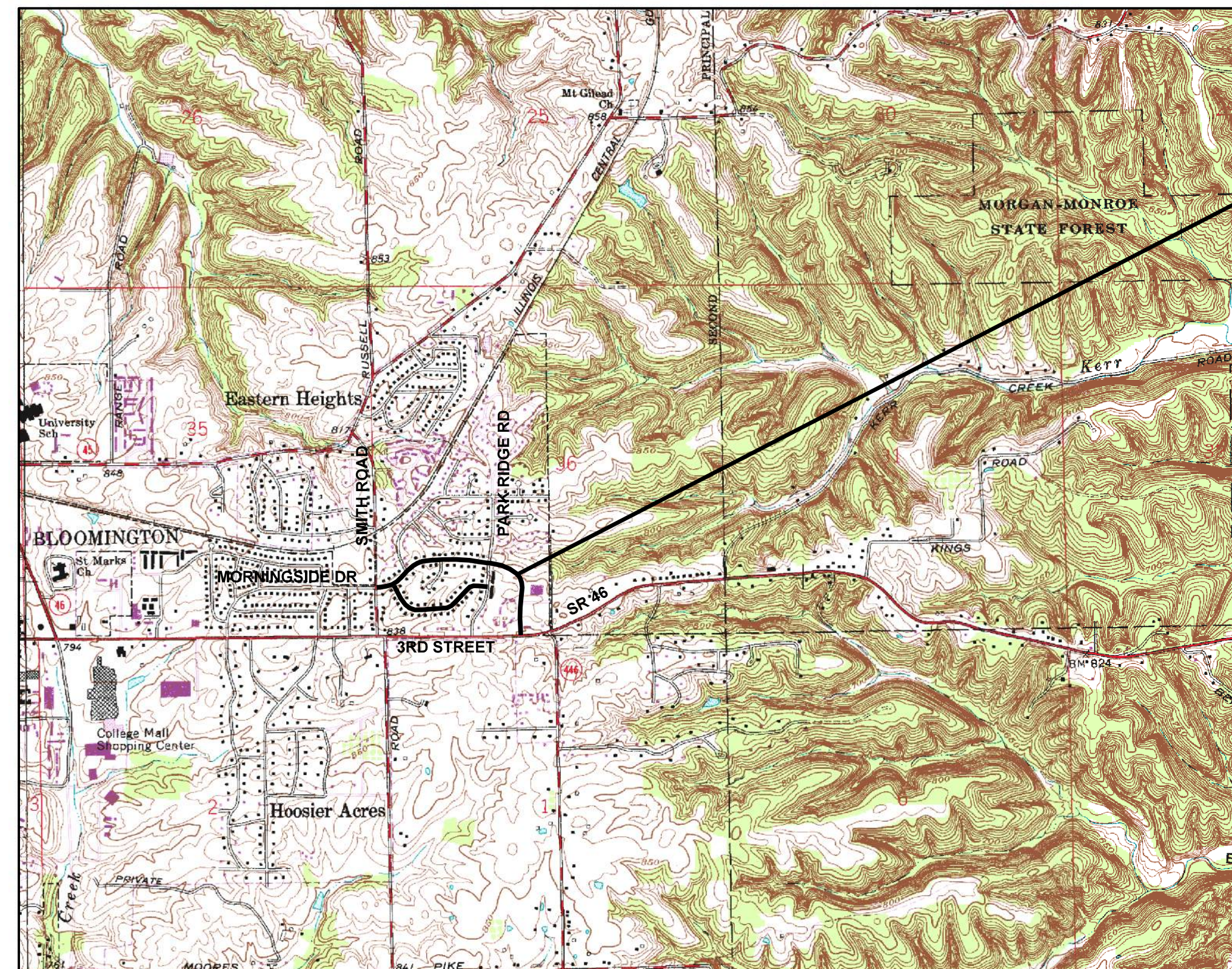
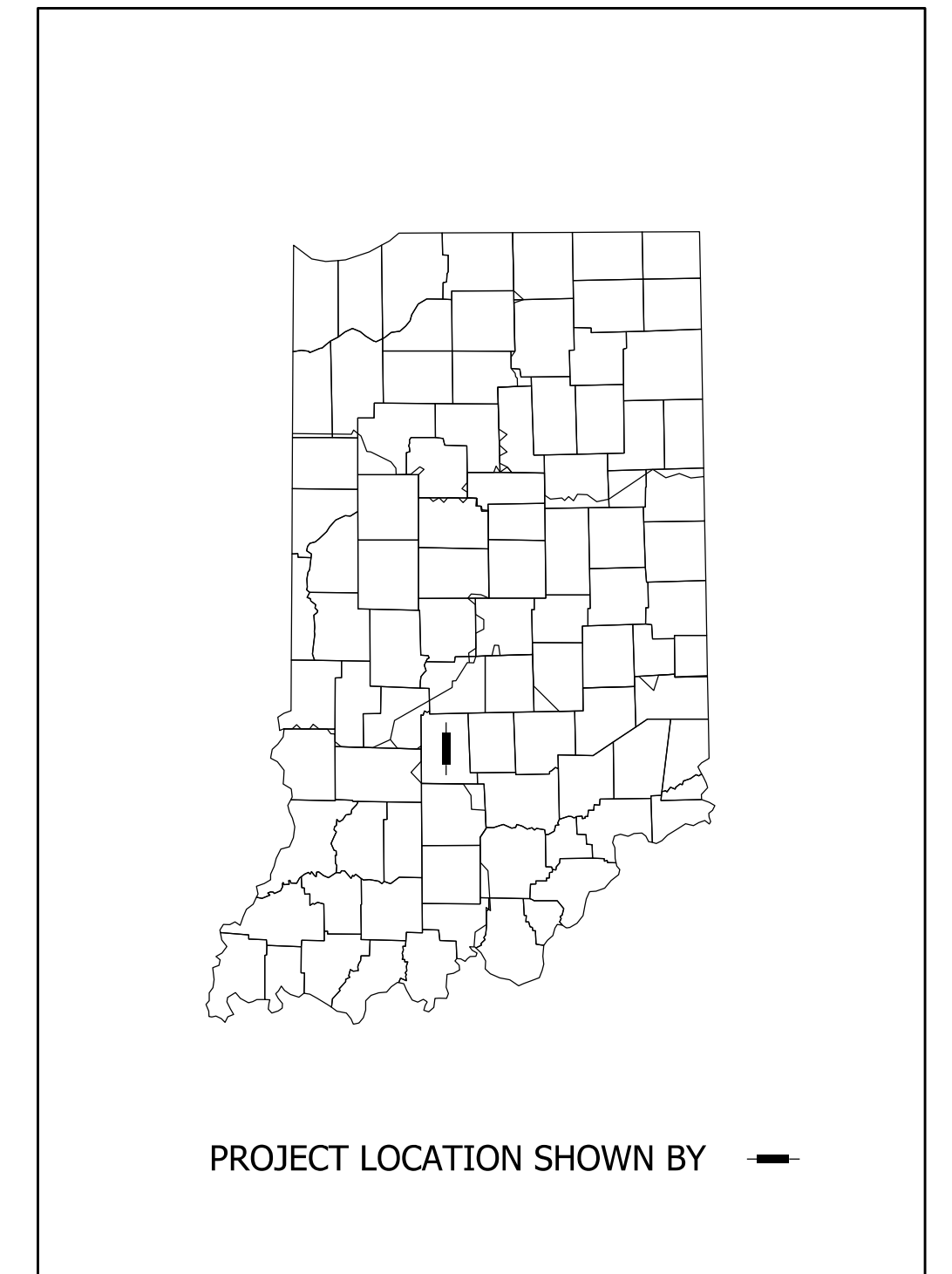


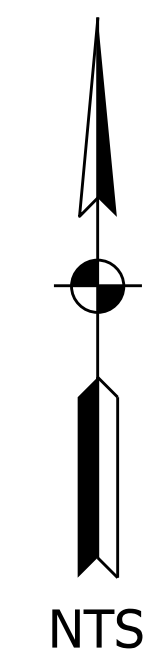
CITY OF BLOOMINGTON DEPARTMENT OF ENGINEERING



MORNINGSIDE DRIVE GREENWAY SMITH ROAD TO STATE ROAD 46



PROJECT LOCATION

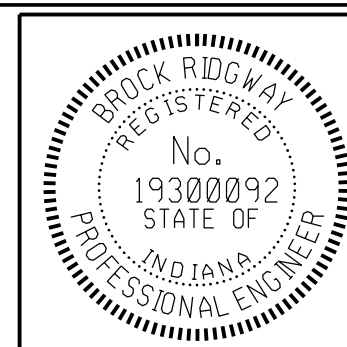


PROJECT LOCATION MAP
CITY OF BLOOMINGTON, MONROE COUNTY

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



8720 Castle Creek Pkwy E Dr, Suite 400,
Indianapolis, IN 46250
<https://eticagroup.com>



PLANS PREPARED BY: ETICA GROUP, INC. (317) 370-9672
PHONE NUMBER
CERTIFIED BY: *B. Ridgway* 10-27-2023 DATE
APPROVED FOR LETTING: _____ DATE

ETICA GROUP	
230240	
SHEETS	
1	of 15
PROJECT	
230240	

MORNINGSIDE DRIVE GREENWAY

UTILITIES

CABLE TELEVISION COMCAST ATTN: STEVE McARTOR 2450 SOUTH HENDERSON ST. BLOOMINGTON, IN 47401 (812) 360-3090	ELECTRIC DUKE (DISTRIBUTION) ATTN: CHRISTINA GIROD 16475 SOUTH PARK DRIVE WESTFIELD, IN 46074 (812) 273-9596 christina.girod@duke-energy.com	TELEPHONE/COMMUNICATIONS (CONT.) AT & T PRIMARY: JOHN HALL (812) 334-4742 ALT: TOD MOORE (812) 334-4718 4517 INDIANA BELL COURT BLOOMINGTON, IN 47408
GAS CENTERPOINT ENERGY ATTN: ARIEL THOMAS 205 SOUTH MADISON BLOOMINGTON, IN 47404 (812) 330-4018 ariel.thomas@centerpoint.com	STORM/SANITARY/WATER 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
DATA BLOOMINGTON DIGITAL UNDERGROUND ATTN: RICK DIETZ ITS DEPT. CITY HALL 401 N. MORTON ST. SUITE 150 BLOOMINGTON, IN 47404 (812) 349-3485	TELEPHONE/COMMUNICATIONS 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
	CENTURYLINK (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 RECORD 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	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	MISCELLANEOUS DETAILS
6	MAINTENANCE OF TRAFFIC PLANS
7	PLAN KEY - GREENWAY PLANS
8 - 15	GREENWAY 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		WATER MAINS/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 "BUNKER" MODEL UNITS AS MANUFACTURED BY RINKER MATERIALS. FOR MORE INFORMATION VISIT 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		CONSTRUCTION LIMITS
	CONCRETE CURB, MOUNTABLE (PROFILE TO MATCH EXISTING)		RAMP, CONCRETE, 6" INCLUDING DETECTABLE WARNING PLATES (PER CITY'S APPROVED MATERIALS LIST) ON 4" COMPACTED AGGREGATE BASE NO. 53s
	CONCRETE CURB		DETECTABLE WARNING PLATES (ON RADIUS, IF RADIUS LABELLED) - (MATERIAL PER CITY PRE-APPROVED MATERIAL LIST)
	REINFORCED CONCRETE CURB		CONCRETE SIDEWALK, 4" ON 4" COMPACTED AGGREGATE, NO. 53s
	MULCH SEEDED AREA - WITH CUSTOM SEED MIX (SEE TEXT BOX)		PCCP FOR PATCHING, 12" WITH 1.5" HMA OVERLAY
	24" WHITE LINES FOR CROSSWALKS OR STOP BARS, THERMOPLASTIC		MILL 10' AND RESURFACE/WEDGE UP TO 15" HMA SURFACE, B
	BIKE SYMBOLS, THERMOPLASTIC		NEW TREE, 2" MIN. CALIPER, AMELANCHIER X GRANDIFLORA (CROSS OF ALLEGHENY SERVICE BERRY AND DOWNY SERVICE BERRY)
	WHITE CHEVRONS (FOR BIKE ROUTE), THERMOPLASTIC		TURNING SPACE, MAX. 2% SLOPE IN ANY DIRECTION
	SPEED CUSHION MARKINGS, THERMOPLASTIC		
	REMOVE EXISTING SIGN AND POST		
	RESET EXISTING SIGN ON NEW TYPE I POST WITH UNREINFORCED ANCHOR BASE		
	NEW SIGN ON TYPE I POST WITH UNREINFORCED ANCHOR BASE		

SEED MIX REQUIREMENTS:

SEED MIXTURE SHALL BE 50 LBS/ACRE OF PERENNIAL RYEGRASS, 50 LBS/ACRE OF CERTIFIED COMMON KENTUCKY BLUEGRASS, AND 50 LBS/ACRE OF MERIT KENTUCKY BLUEGRASS. CONTRACTOR SHALL SEED AT A RATE OF 150 LBS/ACRE. EQUIVALENT SEED MIXTURES MAY BE APPROVED, BUT SHALL NOT CONTAIN ANY PROHIBITED PLANT SPECIES AS LISTED IN BLOOMINGTON MUNICIPAL CODE 20.04.D00. CONTRACTOR SHALL NOT USE PLASTIC LANDSCAPE NETTING OR MESH FOR ANY TYPE OF PERMANENT LANDSCAPING OR EROSION CONTROL.

TREES, MIN. 2.0'-2.5' CALIPER, UNRESTRICTED LOCATIONS:

- T1 - SWAMP WHITE OAK
- T2 - KENTUCKY COFFEETREE
- T3 - TULIP TREE
- T7 - AMERICAN HORNBEAM

HEIGHT/SIZE RESTRICTED LOCATIONS:

- T4 - REDBUD - SINGLE STEM
- T5 - SERVICEBERRY - SINGLE STEM
- T6 - DOGWOOD - SINGLE STEM

FOR INFO ONLY:
ALL TREES AND PLANTS TO BE INSTALLED BY CONTRACTOR



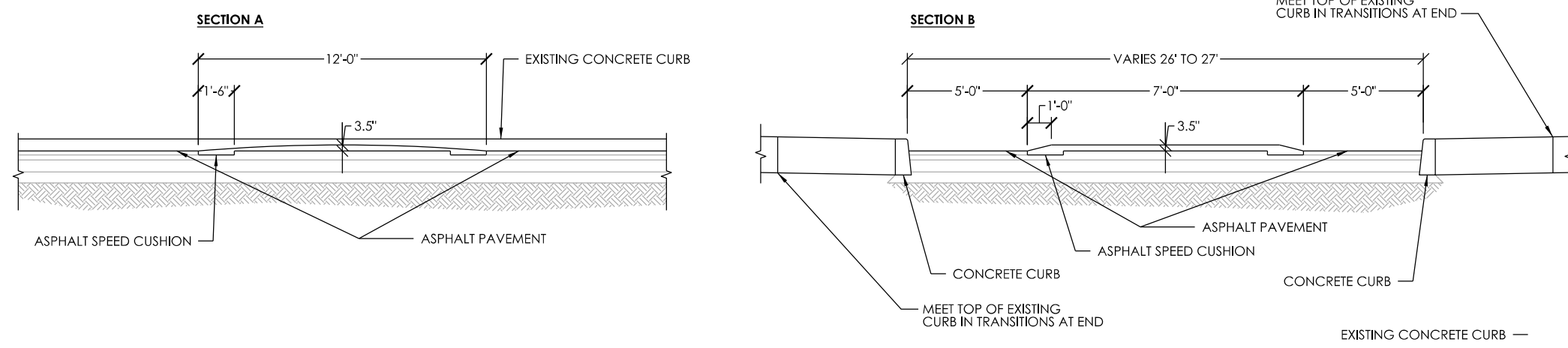
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Indianapolis, IN 46250
<https://eticagroup.com>



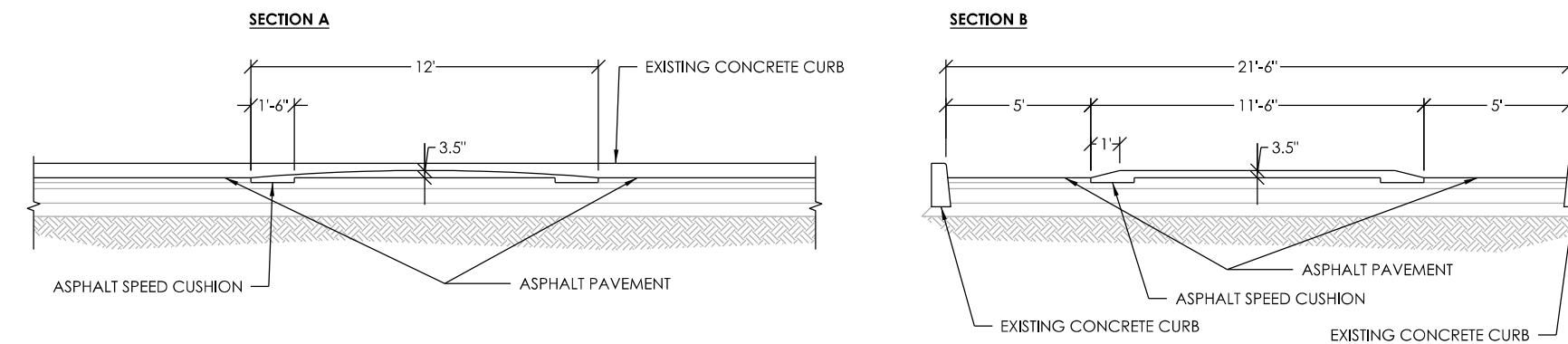
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DESIGNED:	BR	DRAWN:	RBA	
CHECKED:	MT	CHECKED:	BR	

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

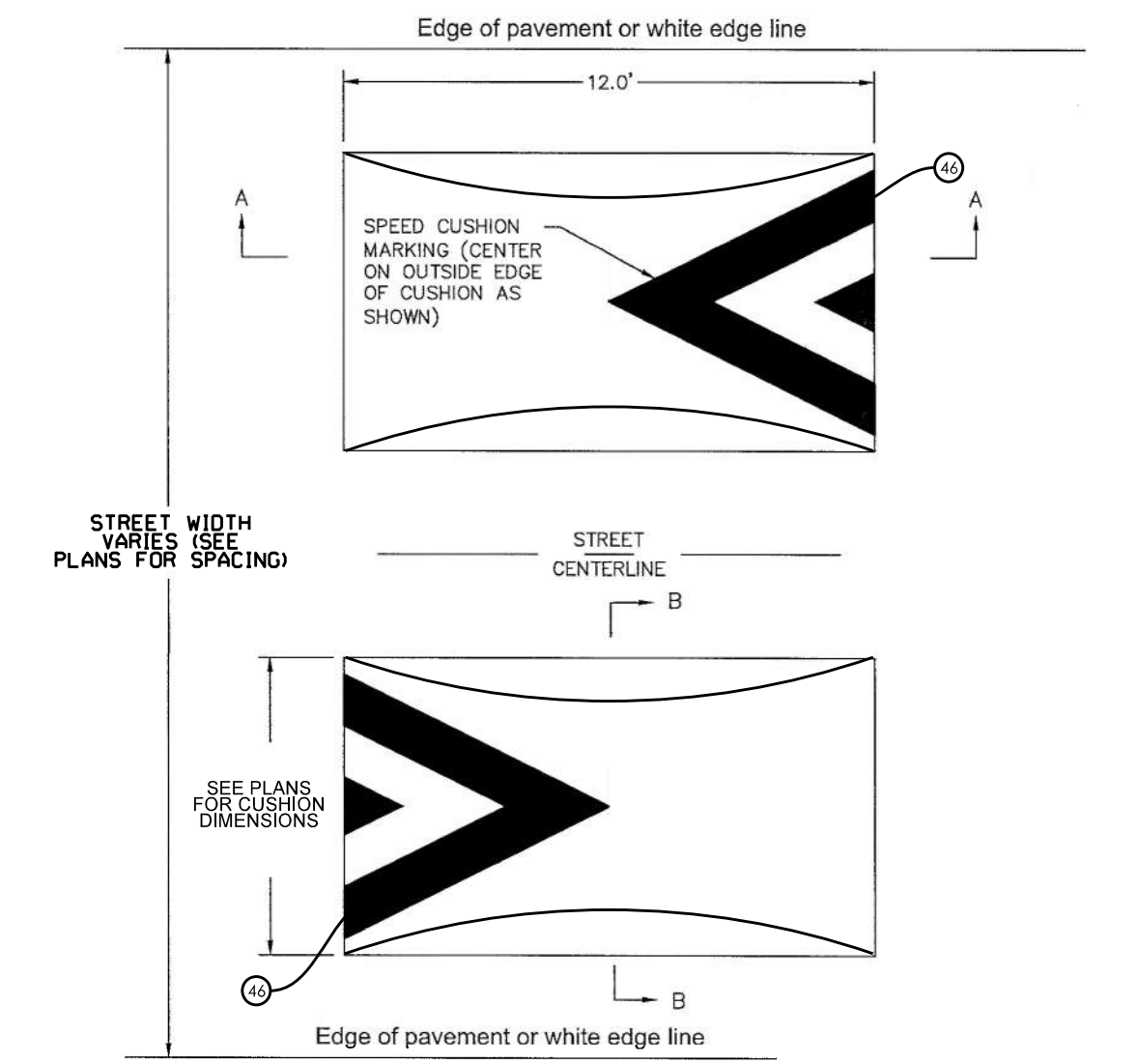
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VERTICAL SCALE	230240
	SHEET NUMBER
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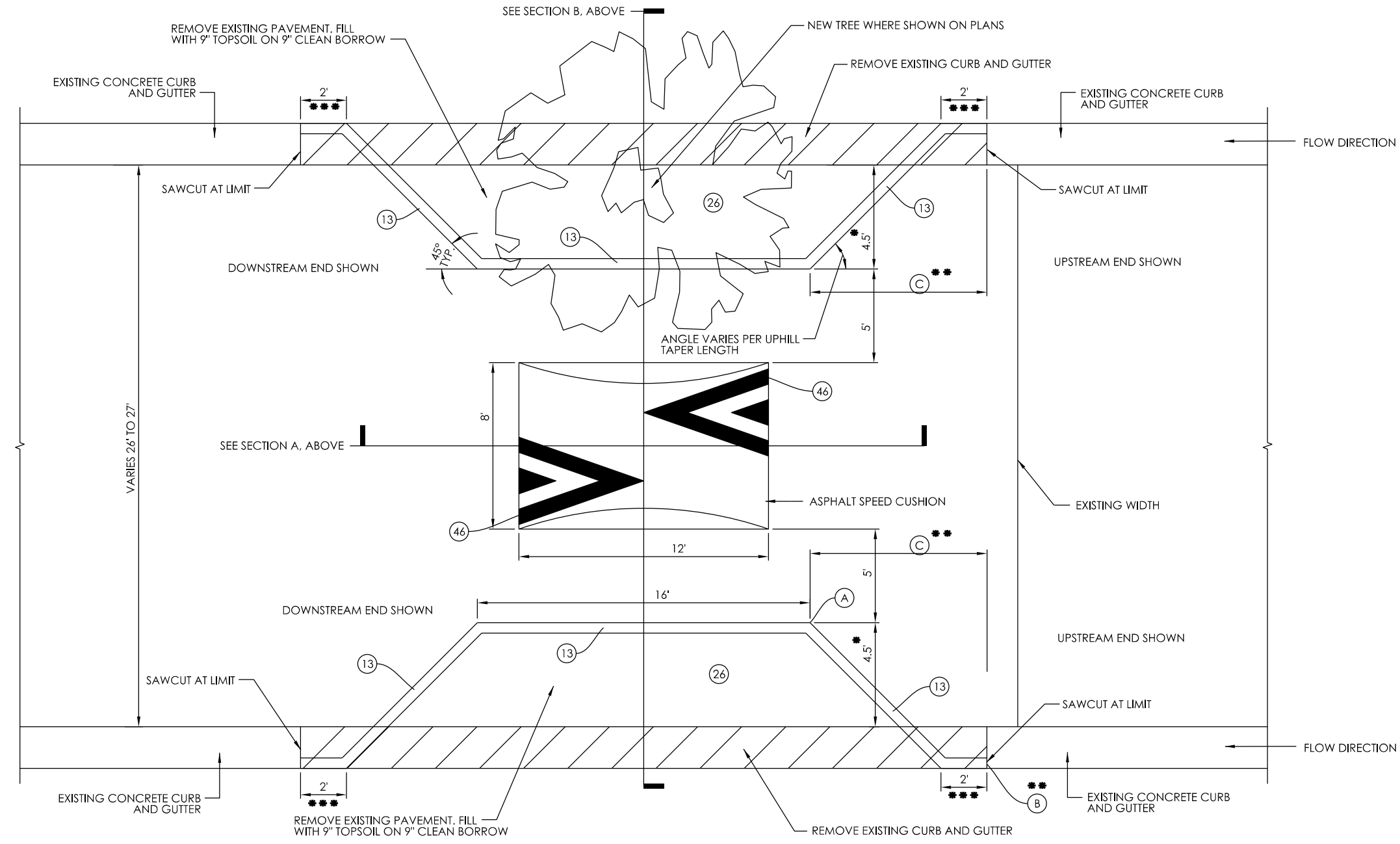
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NOT TO SCALE



SC6 ASPHALT SPEED CUSHION FOR FULLY CURBED ROADWAY - SECTION
NOT TO SCALE

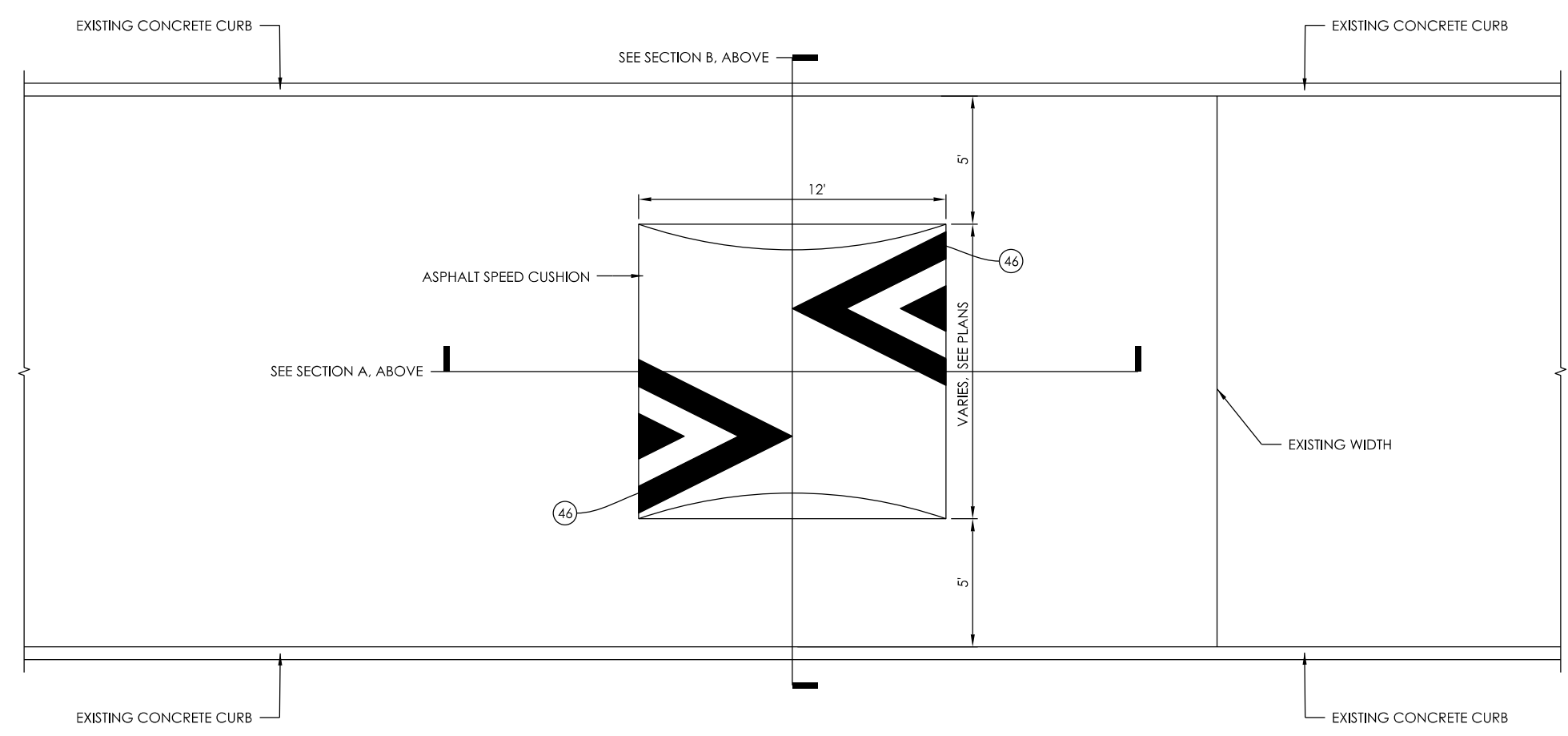


SC7 ASPHALT SPEED CUSHION FOR INSTALLATIONS WITHOUT BUMPOUTS - TWIN CUSHION INSTALLATION
NOT TO SCALE

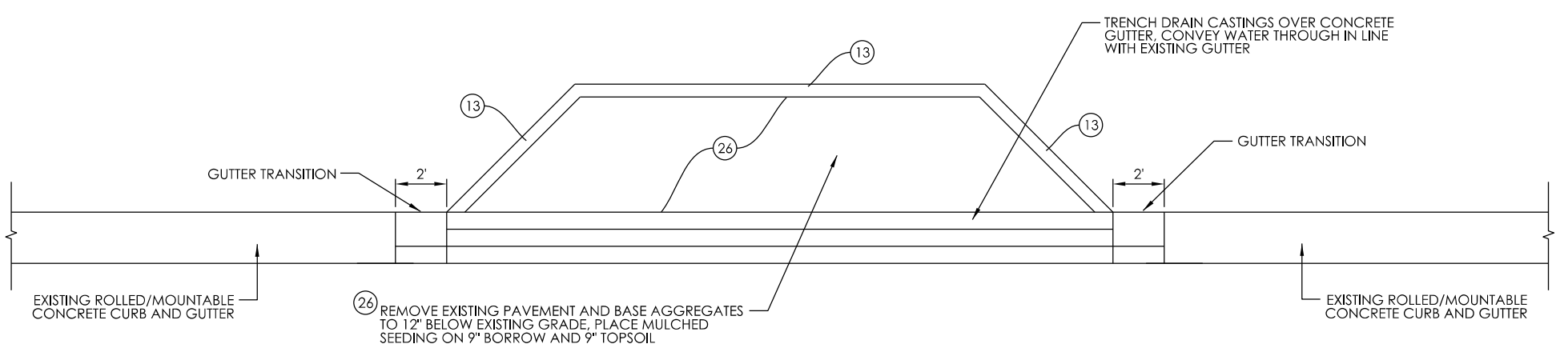


SC1 ASPHALT SPEED CUSHION FOR FULLY CURBED ROADWAY - PLAN
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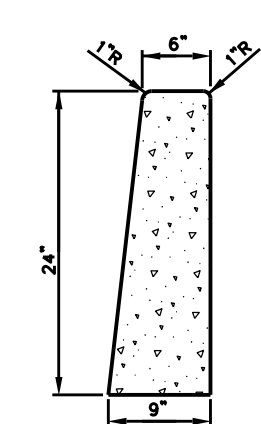
- VARY THIS DIMENSION UP OR DOWN DEPENDING ON TRUE WIDTH OF STREET. EQUAL ON EACH SIDE OF STREET.
- CONTRACTOR SHALL VERIFY POSITIVE DRAINAGE FROM UPSTREAM GUTTER TRANSITION (B) TO CORNER POINT (A) ON THE UPHILL SIDE OF EACH BUMPOUT. SEE PLANS FOR UPHILL TAPER LENGTH (C).
- Z TRANSITION SLOPED CURB AND GUTTER TO STANDARD CURB AND GUTTER SECTION



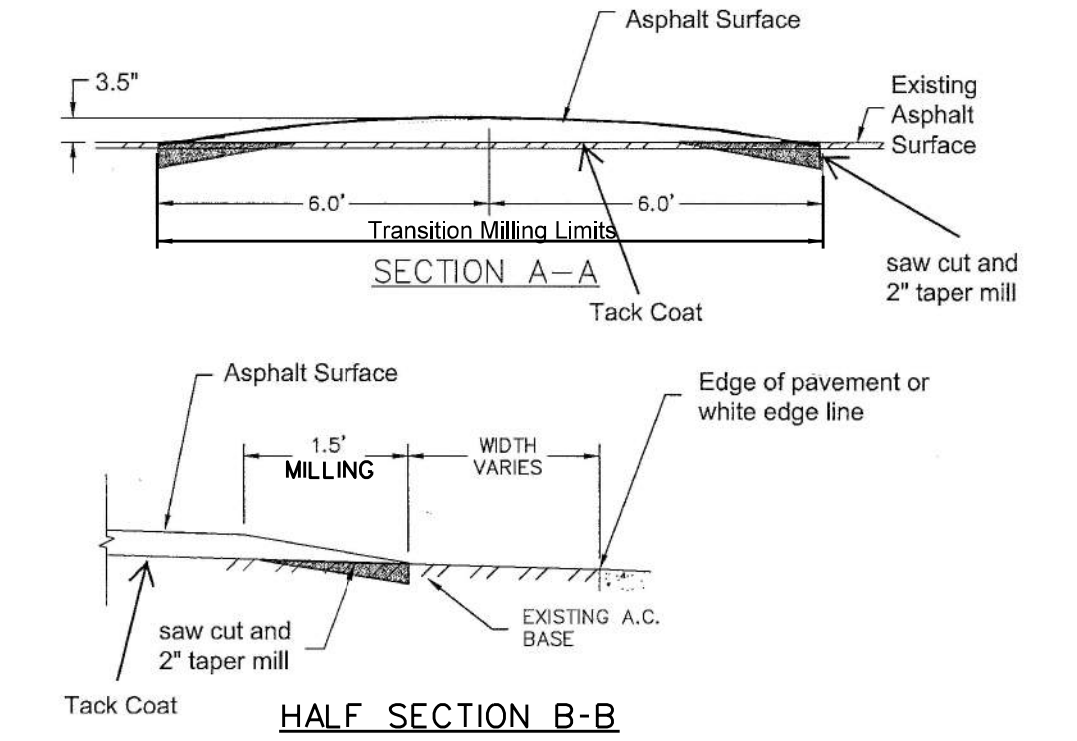
SC6 ASPHALT SPEED CUSHION FOR FULLY CURBED ROADWAY - PLAN
NOT TO SCALE



MODIFIED SC1 FOR DRAINAGE ALONG GUTTERLINE - PLAN
NOT TO SCALE



13 TYPICAL STANDING CURB
NOT TO SCALE

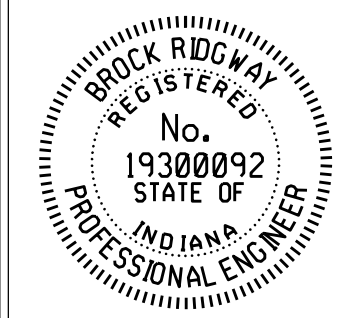


SC1 SC6 SC7 SPEED CUSHION HEIGHT TOLERANCES
NOT TO SCALE

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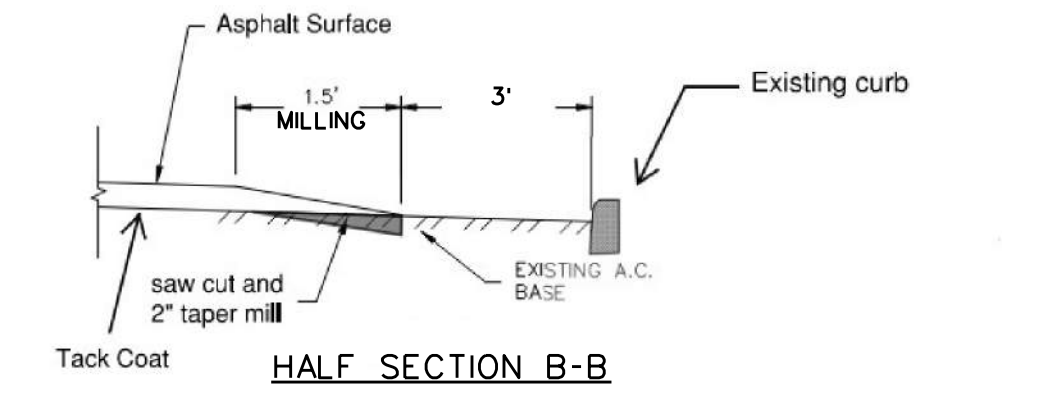
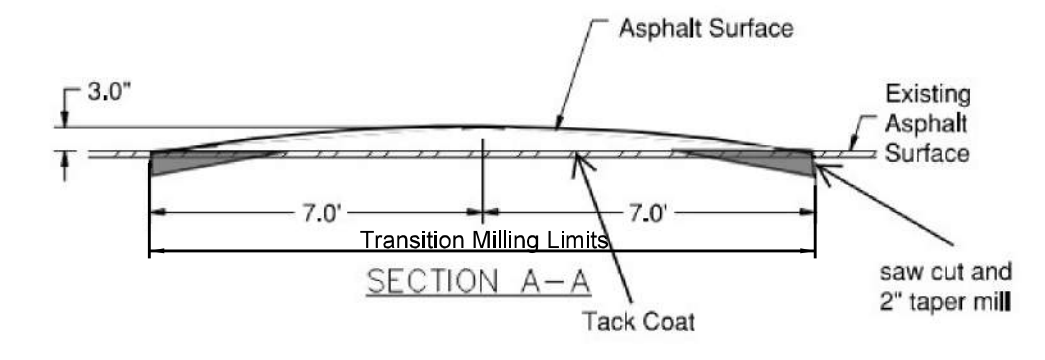
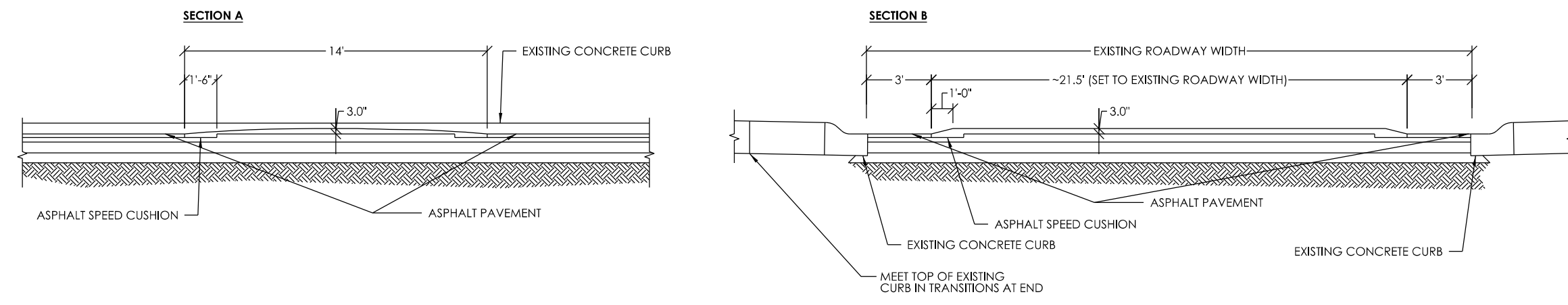


RECOMMENDED FOR APPROVAL	<i>B. Ridgway</i>	DESIGN ENGINEER	10-27-2023	DATE
DESIGNED:	BR	DRAWN:	RBA	
CHECKED:	MT	CHECKED:	BR	

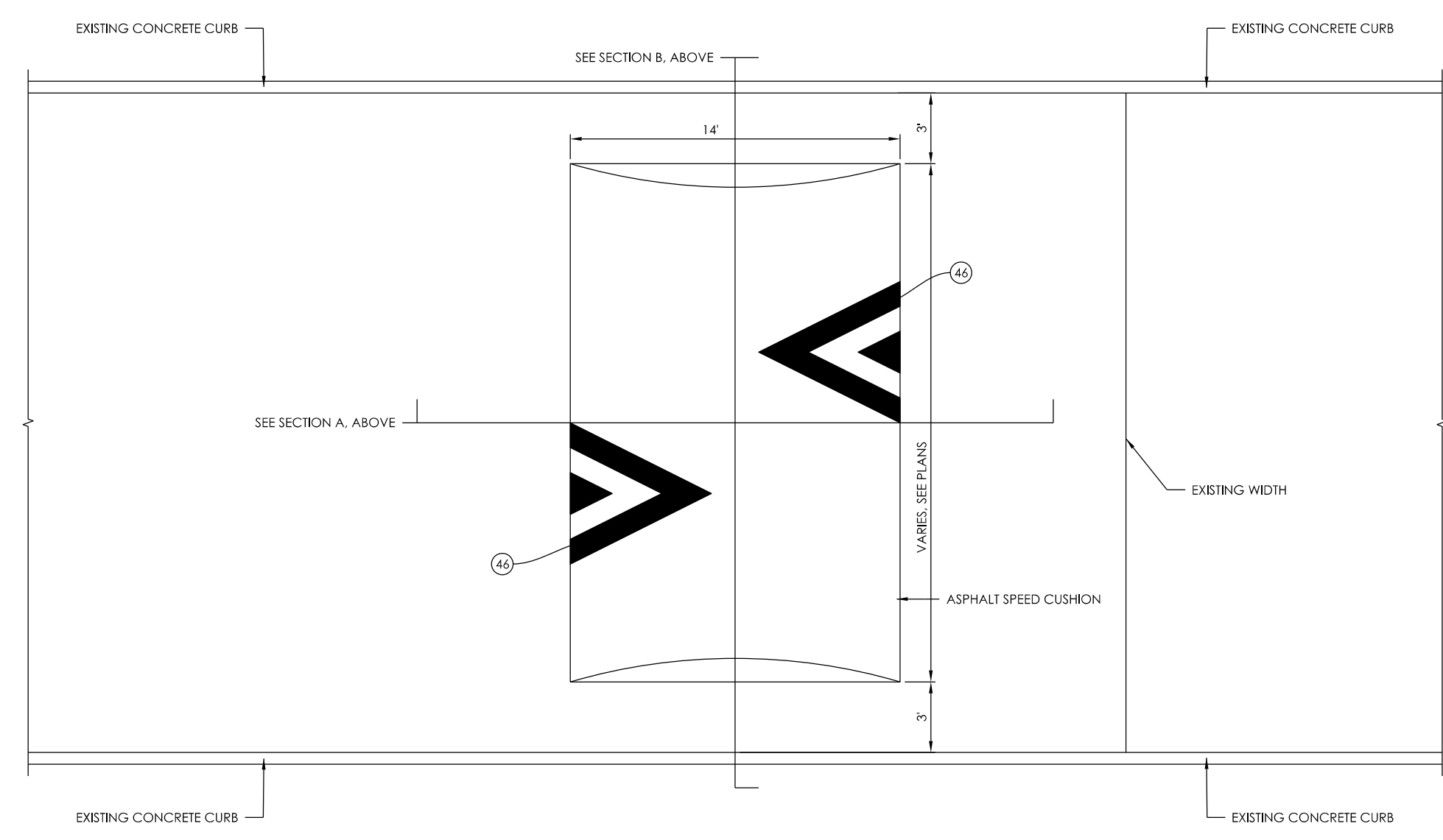
CITY OF BLOOMINGTON
DEPARTMENT OF ENGINEERING

MISCELLANEOUS DETAILS

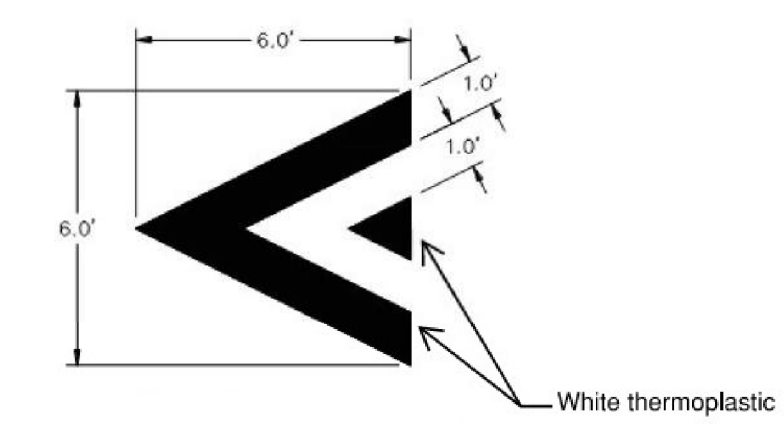
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AS NOTED	230240
VERTICAL SCALE	
	SHEET NUMBER
	3



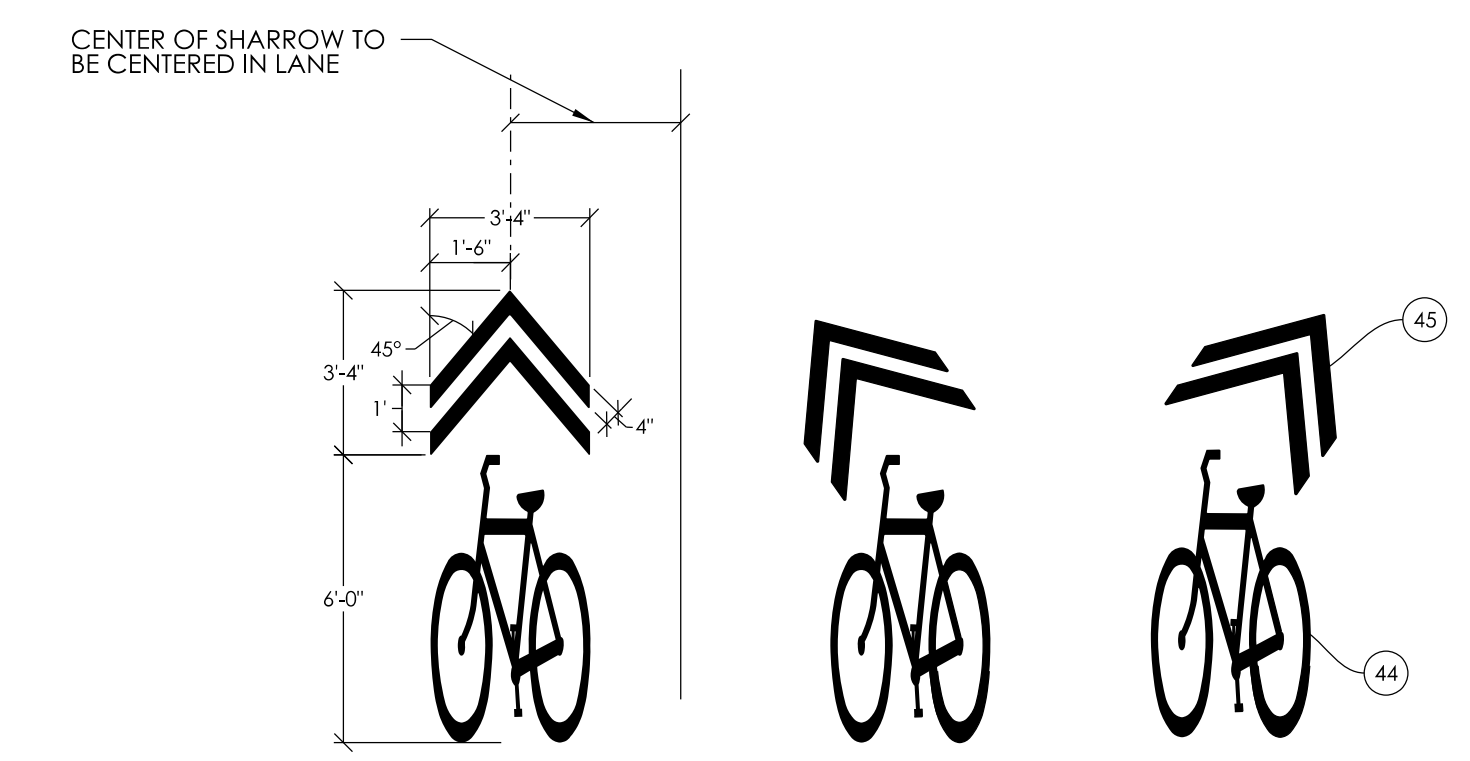
SC5 SPEED HUMP HEIGHT TOLERANCES
NOT TO SCALE



SC5 14' ASPHALT SPEED HUMP
NOT TO SCALE



46 SPEED CUSHION MARKING
NOT TO SCALE

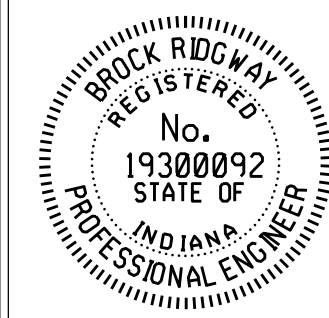


44/45 SHARED LANE MARKINGS AND CHEVRON DIMENSIONS
NOT TO SCALE

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<https://eticagroup.com>



RECOMMENDED FOR APPROVAL	<i>B. Ridgway</i>	DESIGN ENGINEER	10-27-2023	DATE
DESIGNED:	BR	DRAWN:	RBA	
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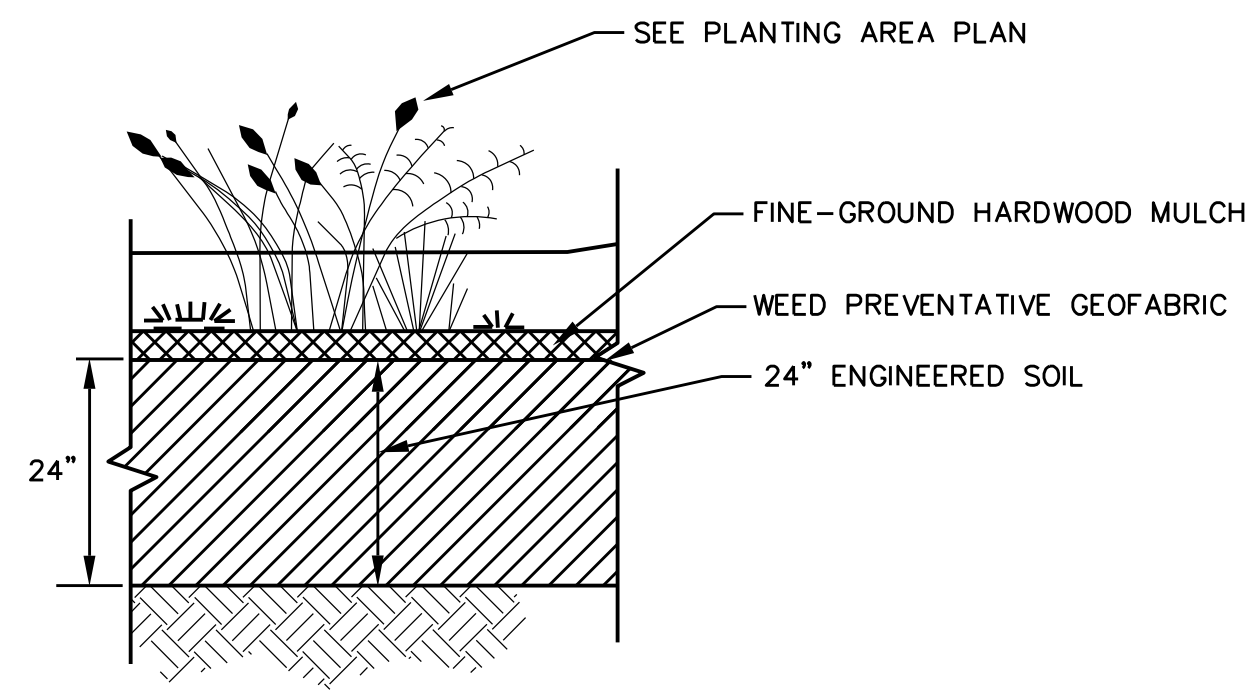
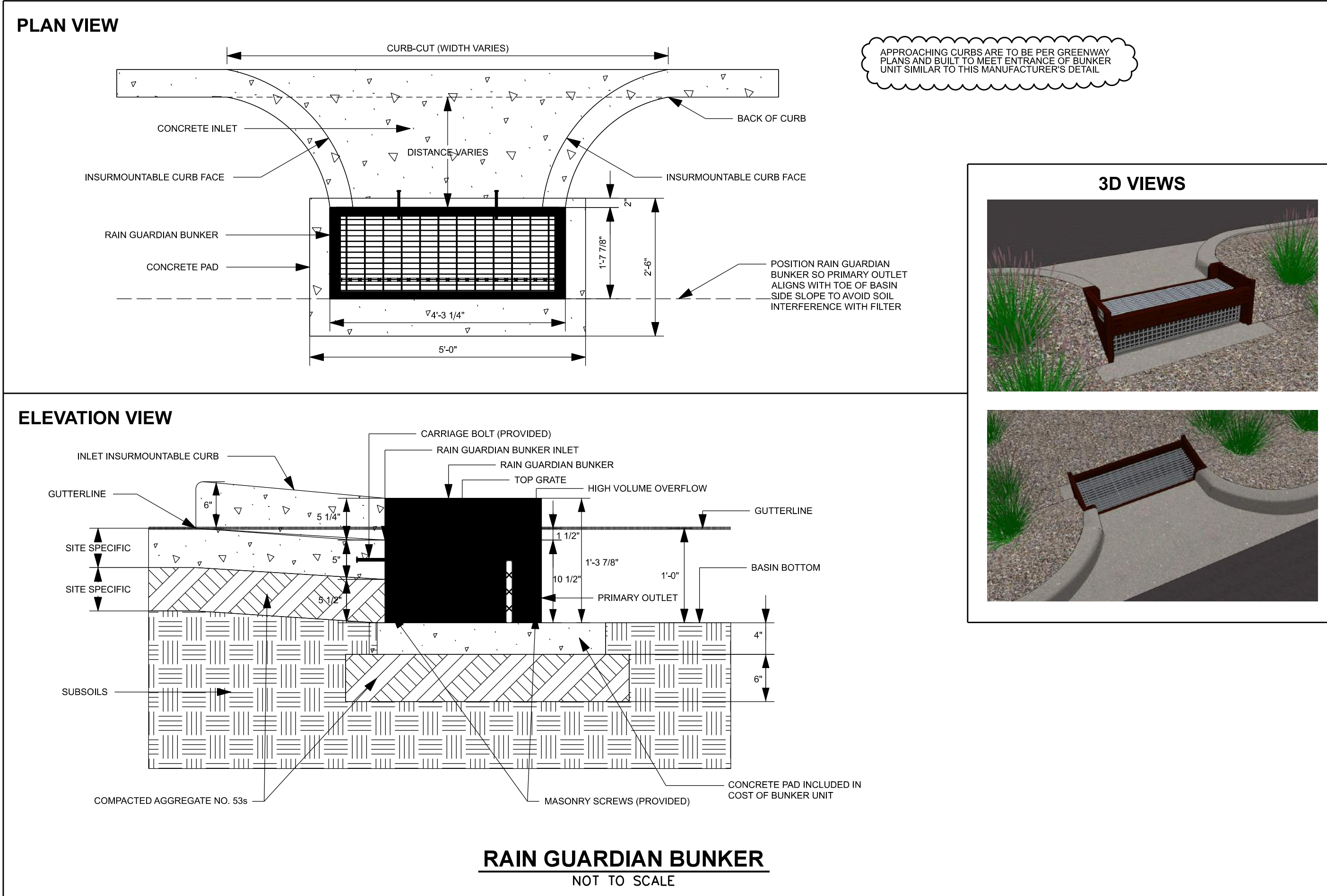
CITY OF BLOOMINGTON
DEPARTMENT OF ENGINEERING

MISCELLANEOUS DETAILS

HORIZONTAL SCALE	ETICA GROUP
AS NOTED	230240
VERTICAL SCALE	
	SHEET NUMBER
	4

SHEET SIGN SUMMARY TABLE																			
SIGN DATA																			
STREET / SHEET	LOCATION	VICINITY ADDRESS	NORTH	SOUTH	EAST	WEST	SIGN DESCRIPTION	SIGN CODE	SIGN SIZE (in. x in.)	RELOCATE EXISTING SIGN EACH	REMOVE SIGN (Paid as Clearing) EACH	NEW SIGN	ENCAPSULATED LENS METAL THICKNESS (in.)			SIGN POST		REMARKS	
													0.080	0.100	0.125	TYPE 1 2.25" x 2.25" x 12 ga. UNREINFORCED ANCHOR BASE			
													SFT	SFT	SFT	POST LENGTH (FT)			
													1	2	TOTAL				
Sheet 8 / Morningside	Btw. Smith and Saratoga	3908		X			Existing 25 MPH	Existing	24 x 18			1							
Sheet 8 / Morningside	Btw. Smith and Saratoga	3908		X			7th / Longview Greenway	D11-1c	24 x 18				1	3.00					
Sheet 8 / Morningside	Btw. Smith and Saratoga	3908		X			Arrow Ahead	M6-1	12 x 9				1	0.75			12	12	Mount with Greenway
Sheet 8 / Saratoga	South of Morningside	3926			X		Existing 25 MPH	Existing	30 x 30			1							
Sheet 8 / Morningside	East of Saratoga	4001		X			SPEED HUMP	W17-1	30 x 30				1	6.25			12	12	
Sheet 8 / Morningside	East of Saratoga	4001		X			15 MPH (Advisory Plaque)	W13-1P	18 x 18				1	2.25					Mount with Speed Hump
Sheet 10 / Morningside	East of Hampton Court	4223		X			Existing 25 MPH	Existing	30 x 30			1							
Sheet 10 / Morningside	East of Hampton Court	4301		X			SPEED HUMP	W17-1	30 x 30				1	6.25			12	12	
Sheet 10 / Morningside	East of Hampton Court	4301		X			15 MPH (Advisory Plaque)	W13-1P	18 x 18				1	2.25					Mount with Speed Hump
Sheet 11 / Morningside	West of Park Ridge	4317		X			Existing Park Speed Limit	Existing	Existing			1							
Sheet 11 / Morningside	West of Park Ridge	4317		X			Existing 25 MPH	Existing	Existing			1							
Sheet 11 / Morningside	West of Park Ridge	4317		X			Existing Greenway Sign	Existing	Existing			1							Move sign to top of existing post
Sheet 11 / Morningside	West of Park Ridge	4317		X			Arrow Ahead	M6-1	12 x 9				1	0.75					Replace post with relocation
Sheet 11 / Park Ridge	Park Ridge, SE Corner	NA			X		Existing Stop	Existing	Existing			1					12	12	Mount with Stop
Sheet 11 / Morningside	Park Ridge, SE Corner	NA		X			Existing All Way	Existing	Existing			1							Mount with Stop
Sheet 11 / Morningside	Park Ridge, NE Corner	NA		X			Existing All Way	Existing	Existing			1							Mount with Stop
Sheet 11 / Morningside	Park Ridge, NE Corner	NA		X			Existing Bus Stop and Route Plaques	Existing	Existing			3							Mount under Stop
Sheet 11 / Morningside	East of Park Ridge	NA		X			Existing 25 MPH	Existing	Existing			1							
Sheet 11 / Morningside	East of Park Ridge	4416		X			SPEED HUMP	W17-1	30 x 30				1	6.25			12	12	
Sheet 11 / Morningside	East of Park Ridge	4416		X			15 MPH (Advisory Plaque)	W13-1P	18 x 18				1	2.25					Mount with Speed Hump
Sheet 12 / Morningside	Btw. Indiana Bell Ct N & S	4488			X		Existing Park Speed Limit	Existing	Existing			1							
Sheet 12 / Morningside	Btw. Indiana Bell Ct N & S	4488			X		Existing 25 MPH	Existing	Existing			1							
Sheet 12 / Morningside	Btw. Indiana Bell Ct N & S	4488			X		Existing No Parking	Existing	Existing			1							Move sign to top of existing post
Sheet 13 / Morningside	N. of SR 46	4517		X			Existing 25 MPH	Existing	Existing			1							
Sheet 13 / Morningside	N. of SR 46	4517		X			SPEED HUMP	W17-1	30 x 30				1	6.25			12	12	
Sheet 13 / Morningside	N. of SR 46	4517		X			15 MPH (Advisory Plaque)	W13-1P	18 x 18				1	2.25					Mount with Speed Hump
Sheet 14 / Saratoga	South of Morningside	3934			X		SPEED HUMP	W17-1	30 x 30				1	6.25			12	12	
Sheet 14 / Saratoga	South of Morningside	3934			X		20 MPH (Advisory Plaque)	W13-1P	18 x 18				1	2.25					Mount with Speed Hump
Sheet 15 / Saratoga	West of Park Ridge	4233		X			20 MPH (Advisory Plaque)	W13-1P	18 x 18				1	2.25					Mount with Speed Hump
Sheet 15 / Saratoga	West of Park Ridge	4233		X			20 MPH (Advisory Plaque)	W13-1P	18 x 18				1	2.25					Mount with Speed Hump
TOTALS													9	9	55.5			96	
PAY UNIT													EACH	EACH	SFT			LFT	

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.



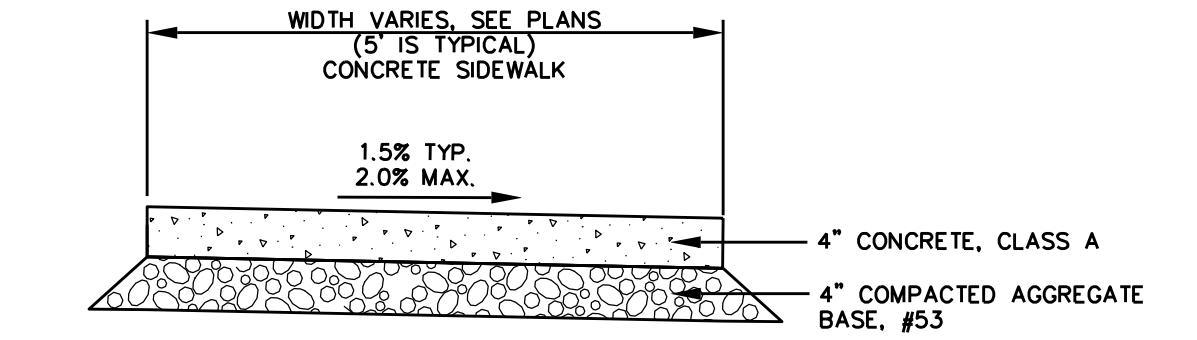
RAINGARDEN SOIL PROFILE SECTION
NOT TO SCALE

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 NOTES:

1. RAINGARDENS WITHOUT UNDERDRAINS OR OVERFLOW STRUCTURES SHALL INCLUDE ONLY THE 24" ENGINEERED SOIL OVERTOPPED WITH A WEED PREVENTATIVE GEOFABRIC AND 2"-3" OF RIPRAP COVER.
2. GEOFABRIC TO BE CUT OUT FOR PLANTINGS.
3. 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.)
4. HARDWOOD MULCH AND RIPRAP-RIVER ROCK TO BE APPROVED IN ADVANCE BY ENGINEER.



TYPICAL SIDEWALK DETAIL
NOT TO SCALE

SIDEWALK JOINT NOTES:

1. INSTALL 1/2" PREFORMED JOINT FILLER BETWEEN SIDEWALKS AND ANY OTHER FIXED FEATURES (CURBS, STEPS, RAMPS, BUILDINGS, ETC.)
2. IN EACH SIDEWALK SEGMENT, TOOL CONSTRUCTION JOINTS AT EVEN SPACING BUT NO MORE THAN 6' MAXIMUM APART. INSTALL AN EXPANSION JOINT WITH 1/2" PREFORMED JOINT FILLER AT A MAXIMUM SPACING EVERY 30' IN SIDEWALKS, AND AT EACH SIDEWALK CONNECTION TO OTHER SIDEWALKS, AT CURBS, AND AT RAMPS.
3. CONTRACTION AND EXPANSION JOINTS SHALL BE INSTALLED BY TOOLING, BUT FINAL SURFACE SHALL BE BROOM FINISHED. NO "WINDOW-PANE" OR SIMILAR TOOLING SHALL BE USED.

CONCRETE SLAB JOINT NOTES:

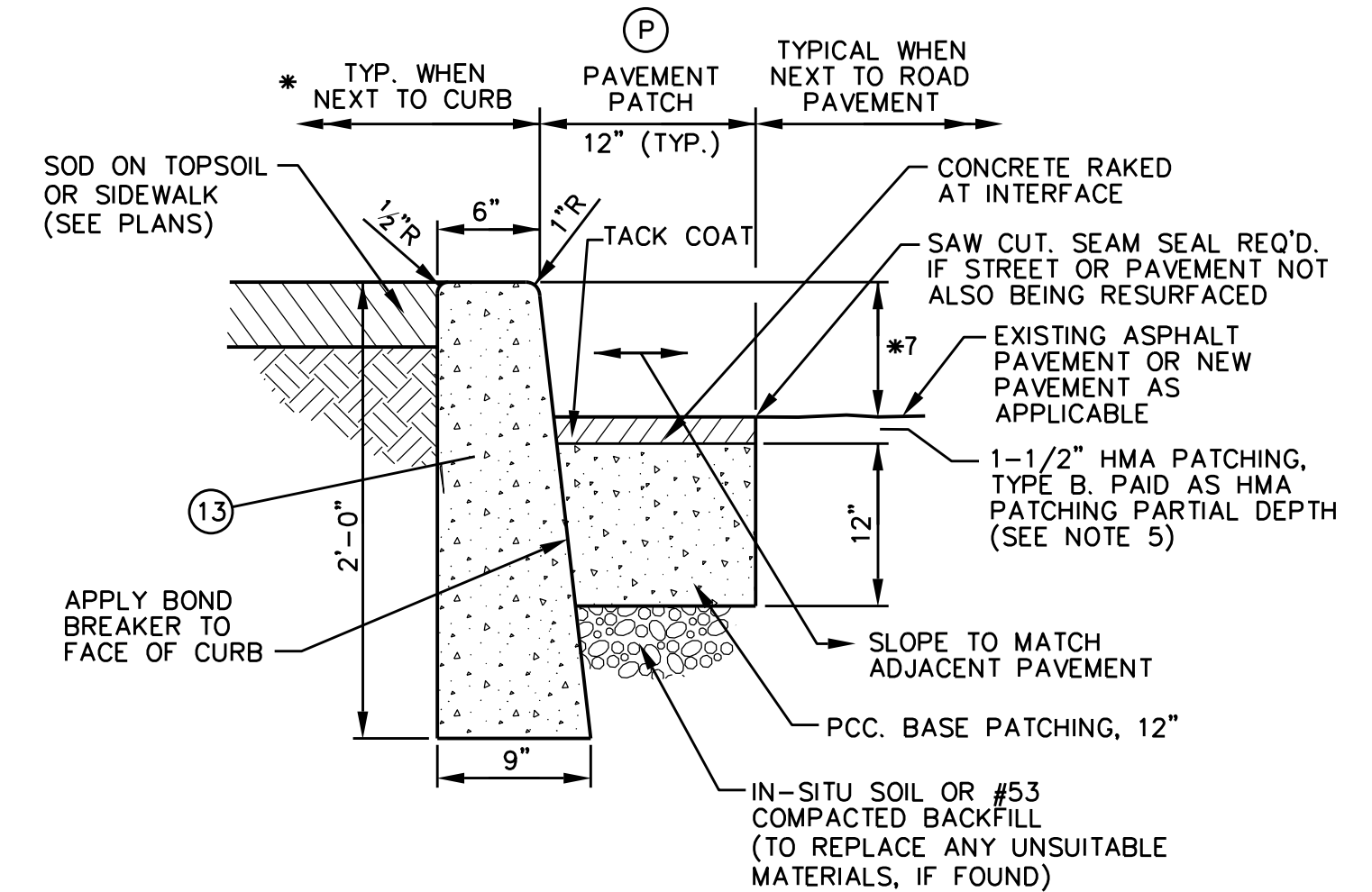
1. CONCRETE SLAB CONSTRUCTION AND EXPANSION JOINTS SHALL BE IN ACCORDANCE WITH INDOT STANDARDS.

CURB JOINT NOTES:

1. ALL CURBS SHALL RECEIVE A FULL DEPTH EXPANSION JOINT FORMED WITH 1/2" PREFORMED JOINT FILLER AT THE FOLLOWING LOCATIONS:
 - EVERY EXPANSION JOINT IN ADJACENT SIDEWALKS OR MEDIAN BUFFER STRIP
 - AT EACH RADIUS POINT
 - ON EITHER SIDE OF CURB INLETS OR OTHER CASTINGS
 - AT SAWCUT, LIMITS OF REMOVAL TO ANY EXISTING CURB
 - AT 100' MAXIMUM INTERVALS, IF NO OTHER JOINTS NEEDED

CURB RAMPS AND TRUNCATED DOMES:

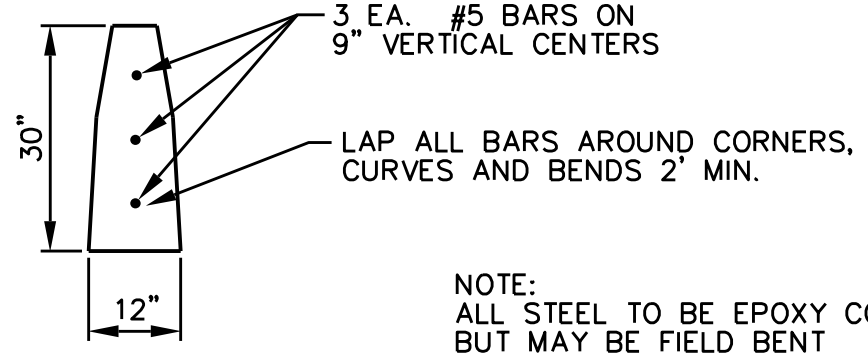
1. RAMPS TO BE CONSTRUCTED AT A MAXIMUM 12:1 SLOPE TO A LANDING AREA FOR ENTRY ONTO ROADWAY PER PLANS.



PAVEMENT PATCH / CONCRETE CURB (VERTICAL)
NOT TO SCALE

NOTES:

- * 1. AREA BEHIND CURBS TO RECEIVE TREATMENT AS SHOWN ON PLANS.
2. REFER TO CURB JOINTS NOTES FOR CURB JOINTING.
3. 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.
4. PAVEMENT PATCHING REQUIRED WHEREVER PAVEMENT IS CUT, AND WHERE EXISTING PAVEMENT IS DAMAGED TO COMPLETE THE REQUIRED CURB, DRIVE OR SIDEWALK WORK.
5. CONTRACTOR SHALL ASSUME THEY ARE TO PLACE THE ASPHALT OVERLAY ON ALL PATCHED AREAS UNLESS OTHERWISE DIRECTED.
6. PATCHING PORTION OF THIS DETAIL TO ALSO BE USED WITH (14) REINFORCED CONCRETE CURB FOR RAINGARDENS.
7. EXPOSED CURB HEIGHT VARIES, BUMPPOINTS SHALL BE TYPICAL 4", RAINGARDENS 6", OTHER LOCATIONS MATCH EXISTING.

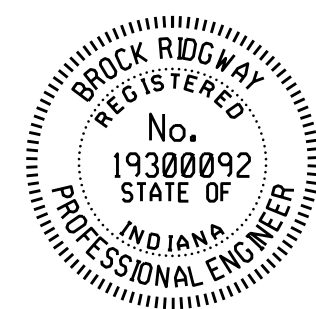


REINFORCED CONCRETE CURB FOR RAINGARDENS
NOT TO SCALE

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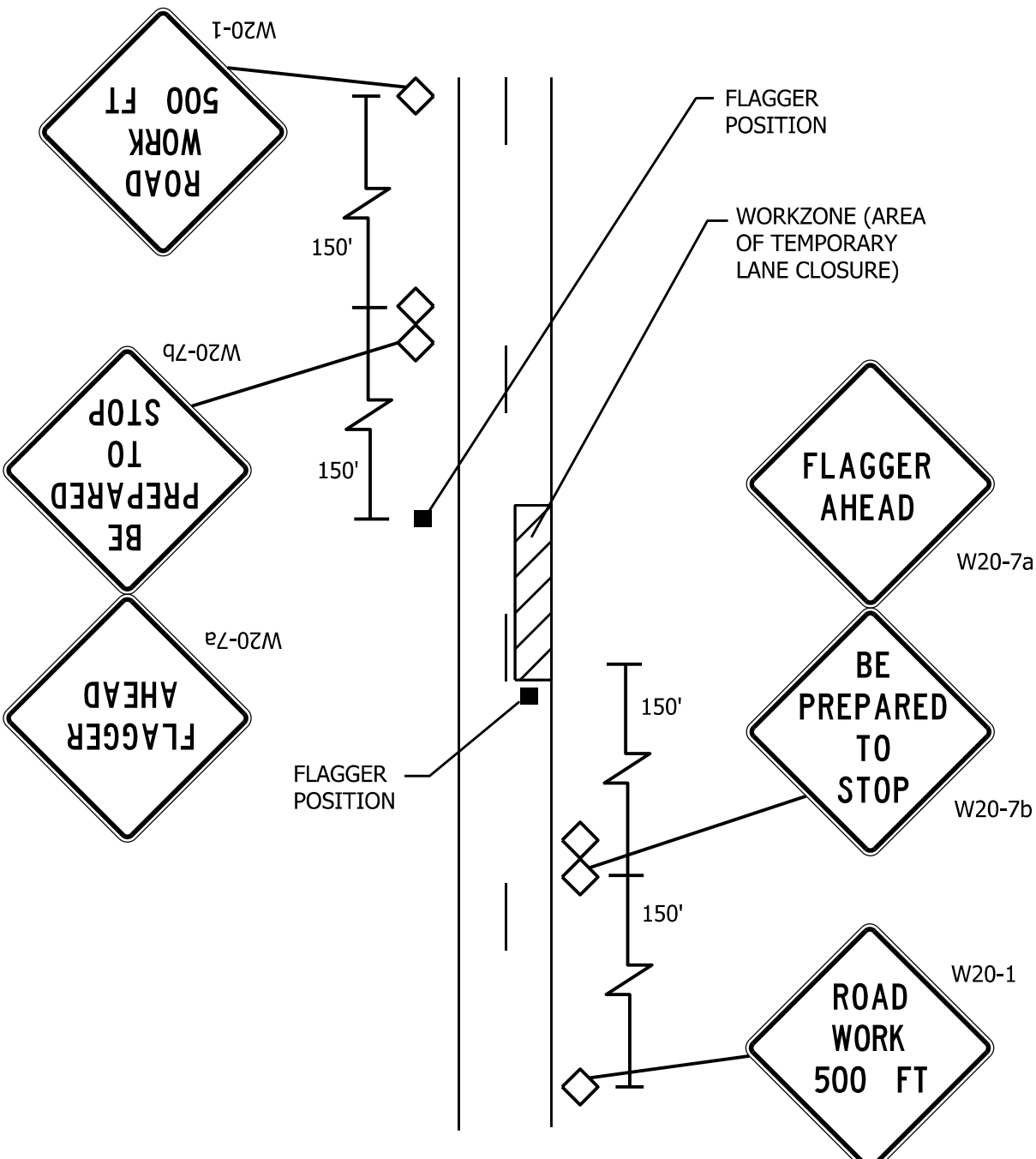
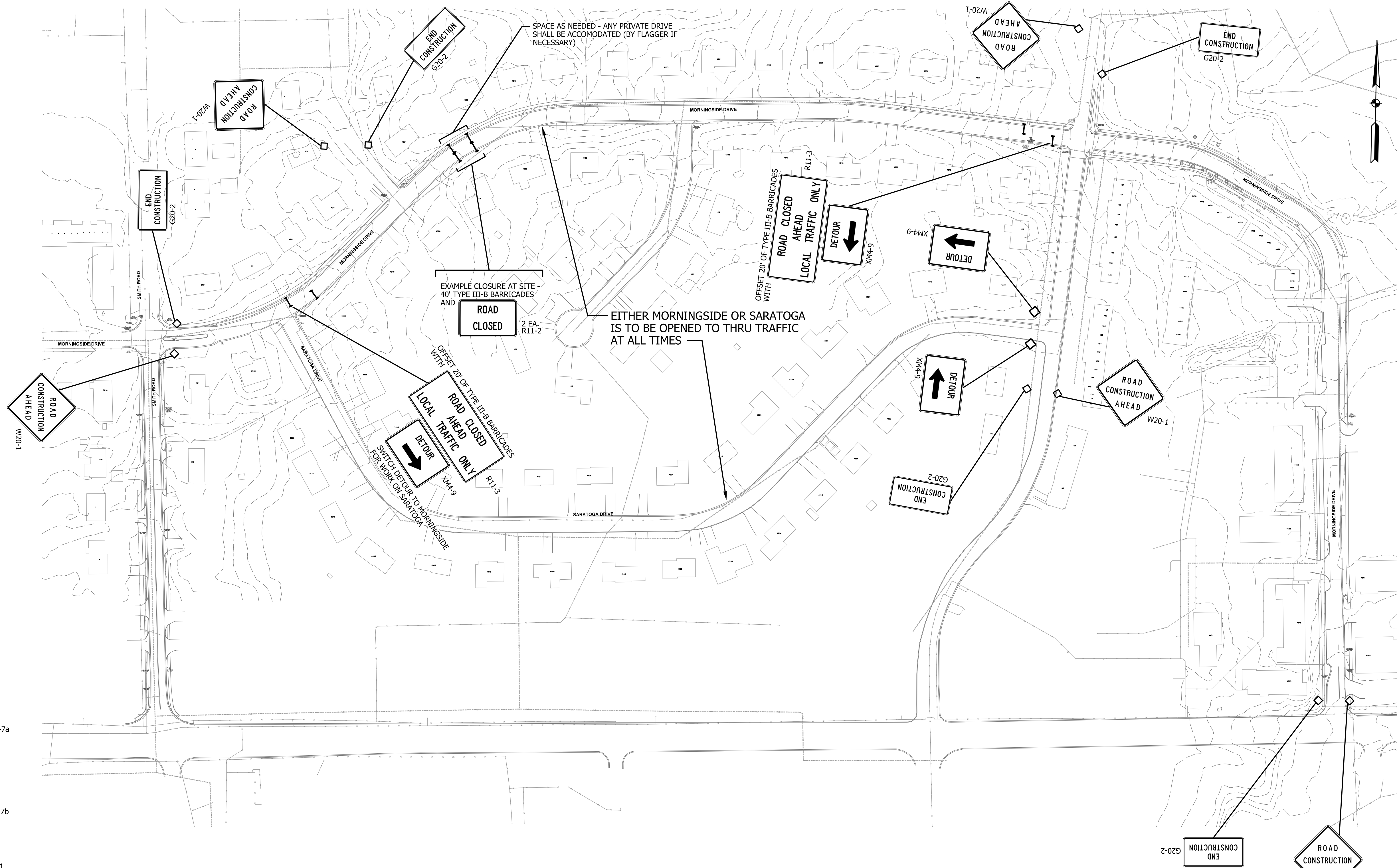
RECOMMENDED FOR APPROVAL	<i>B. Ridgway</i>	DESIGN ENGINEER	10-27-2023	DATE
DESIGNED:	BR	DRAWN:	RBA	
CHECKED:	MT	CHECKED:	BR	

CITY OF BLOOMINGTON
DEPARTMENT OF ENGINEERING

MISCELLANEOUS DETAILS

HORIZONTAL SCALE	ETICA GROUP
AS NOTED	230240
VERTICAL SCALE	
	SHEET NUMBER
	5

MOT QUANTITIES		
ROAD CLOSURE ASSEMBLIES		
ROAD CLOSED	R11-2	2 EA.
ROAD CLOSED, LOCAL TRAFFIC ONLY	R11-3	2 EA.
	TOTAL	4 EA.
BARRICADES, III-B		
ON PLANS		80 LFT
UNDISTRIBUTED		20 LFT
	TOTAL	100 LFT
CONSTRUCTION SIGNS, A		
ROAD CONSTRUCTION AHEAD	XW20-1	5 EA.
UNDISTRIBUTED/OWNER DETERMINED		4 EA.
FLAGGER AHEAD	W20-7a	2 EA.
BE PREPARED TO STOP	W20-7b	2 EA.
	TOTAL	13 EA.
CONSTRUCTION SIGNS, B		
DETOUR	XM4-9	6 EA.
END CONSTRUCTION		5 EA.
	TOTAL	11 EA.



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

NOTE: DISTANCES SHALL BE ADJUSTED TO FIELD CONDITIONS WHERE SPACE IS LIMITED. FOR USE WHEN FULL CLOSURE AND POSTED DETOUR ARE NOT NECESSARY.

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.

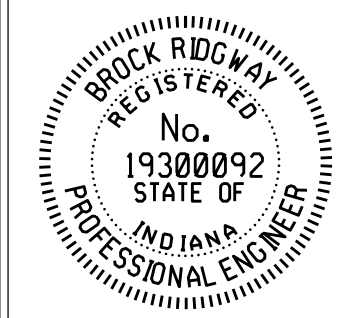
GENERAL REQUIREMENTS:

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.

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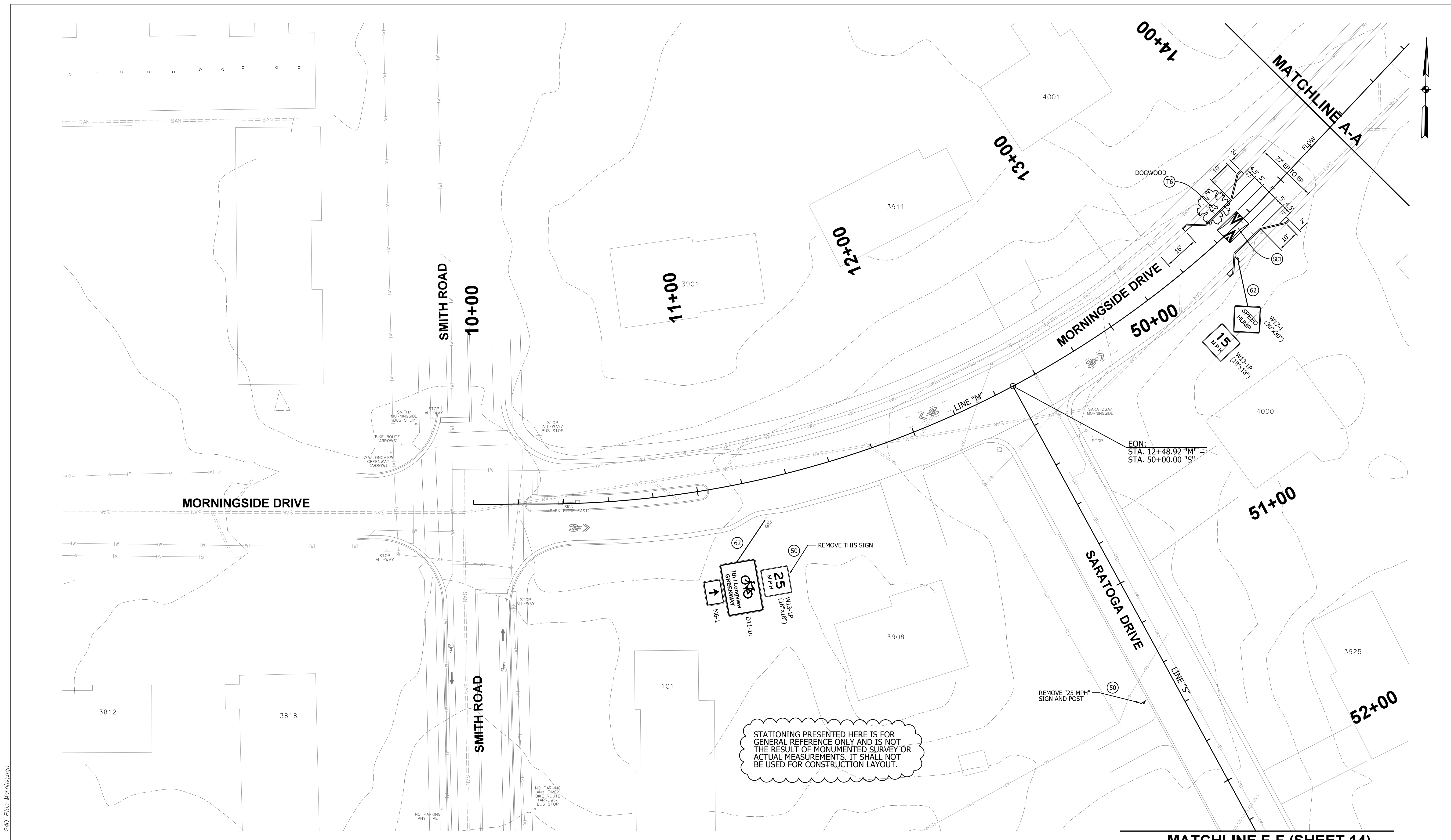


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			DATE
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MAINTENANCE OF TRAFFIC PLAN

HORIZONTAL SCALE	ETICA GROUP
NTS	230240
VERTICAL SCALE	
	SHEET NUMBER
	6



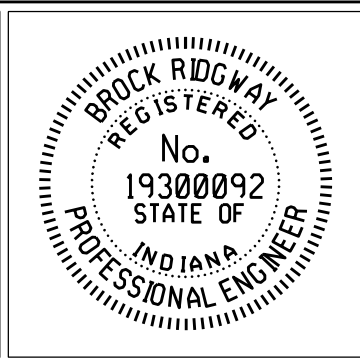
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MATCHLINE F-F (SHEET 14)

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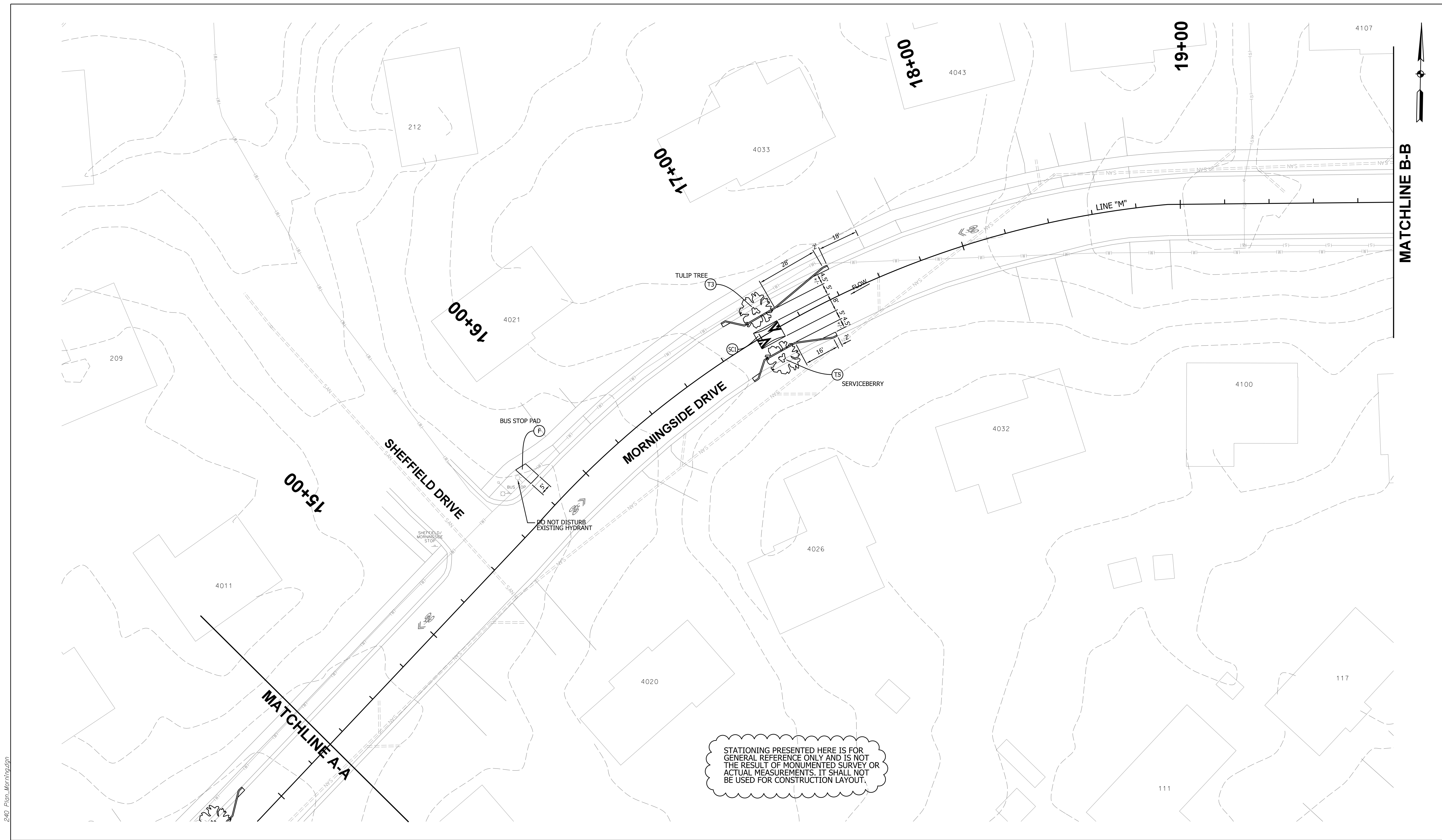


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CITY OF BLOOMINGTON
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NEIGHBORHOOD GREENWAY PLANS
MORNINGSIDE DRIVE

HORIZONTAL SCALE	ETICA GROUP
1" = 20'-0"	230240
VERTICAL SCALE	
	SHEET NUMBER
	8

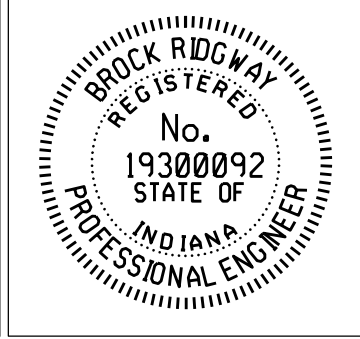


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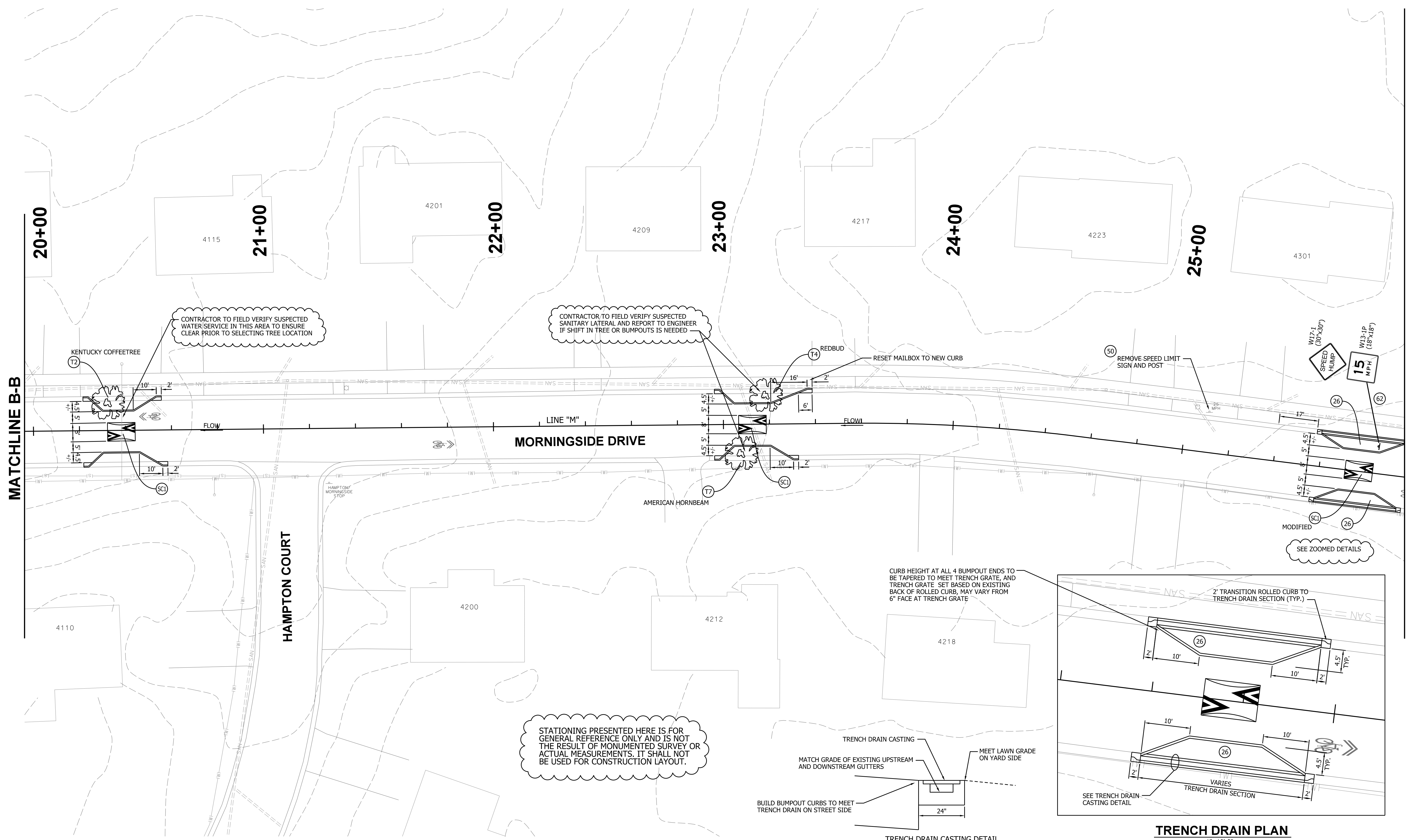
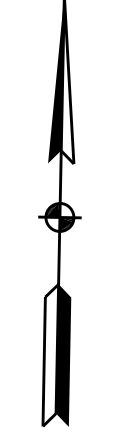


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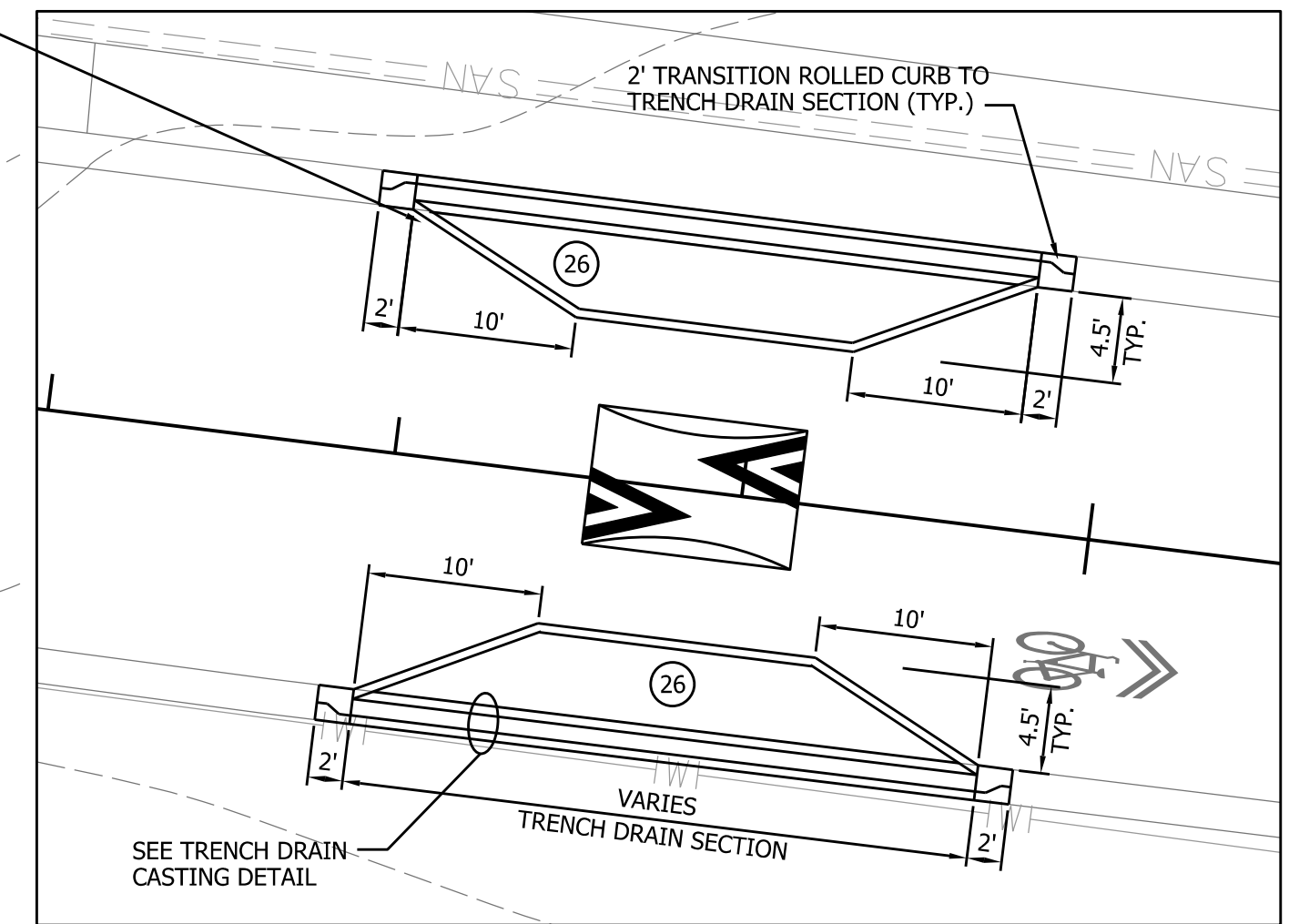
NEIGHBORHOOD GREENWAY PLANS
MORNINGSIDE DRIVE

HORIZONTAL SCALE	ETICA GROUP
1" = 20'-0"	230240
VERTICAL SCALE	
	SHEET NUMBER
	9

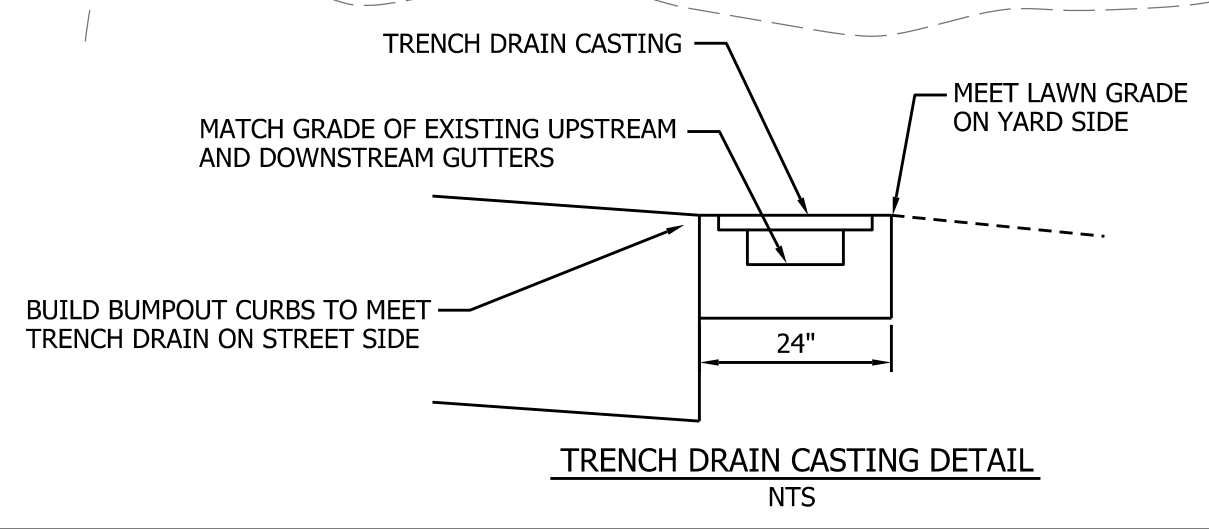


MATCHLINE B-B

MATCHLINE C-C



TRENCH DRAIN PLAN
1"=10'-0"

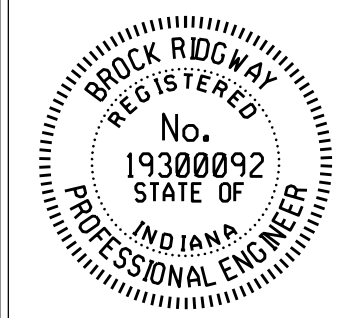


TRENCH DRAIN CASTING DETAIL
NTS

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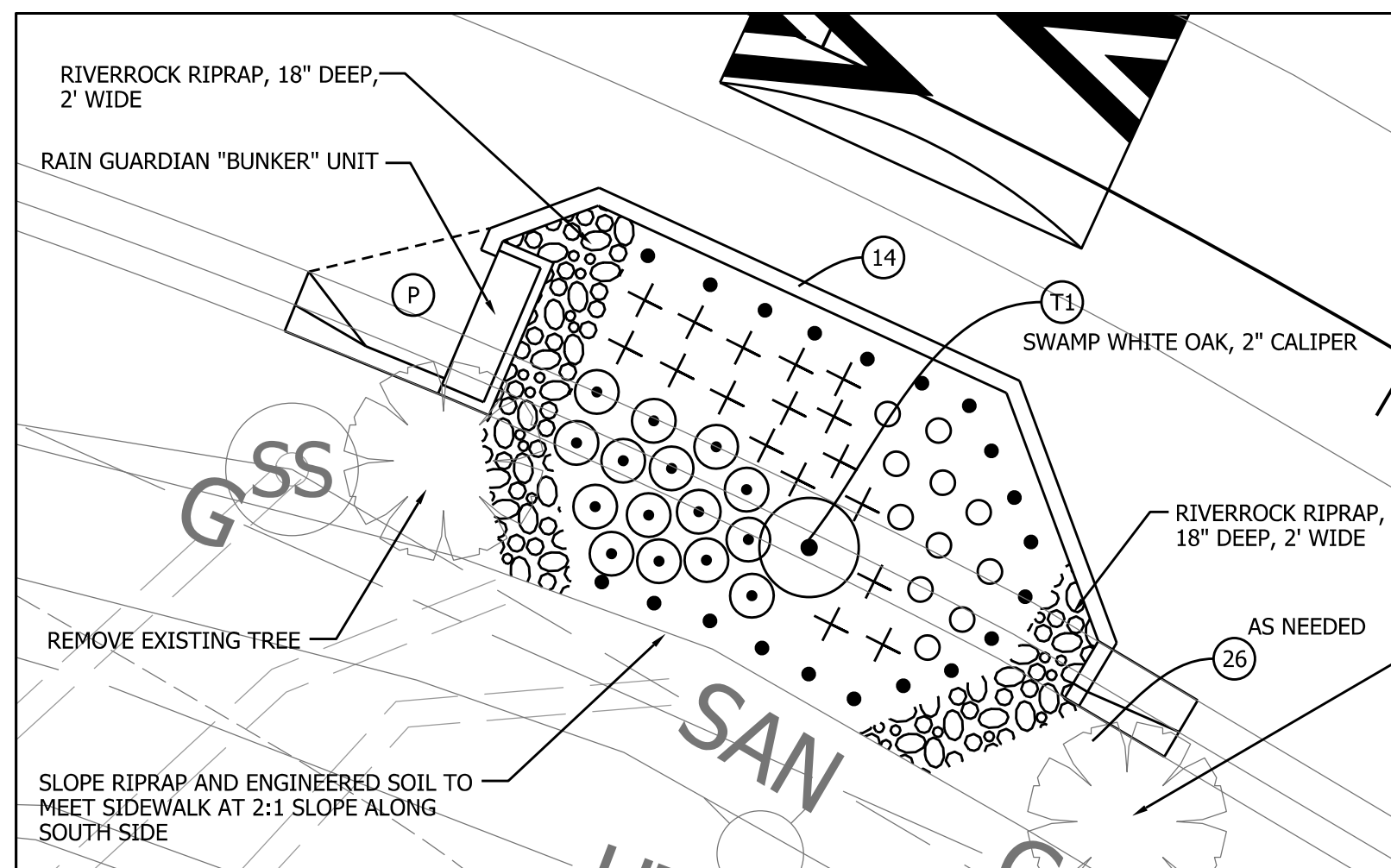


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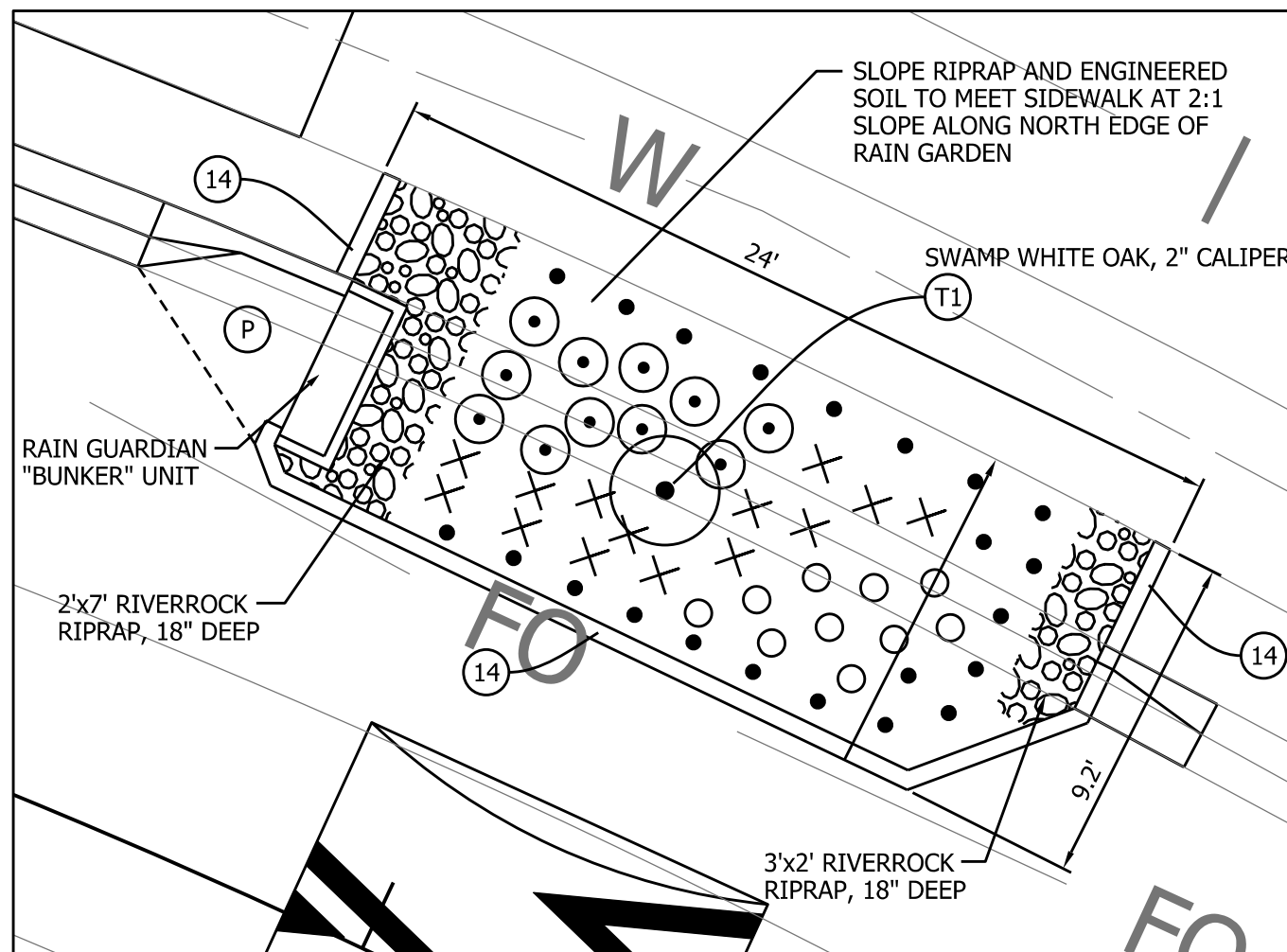
CITY OF BLOOMINGTON
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NEIGHBORHOOD GREENWAY PLANS
MORNINGSIDE DRIVE

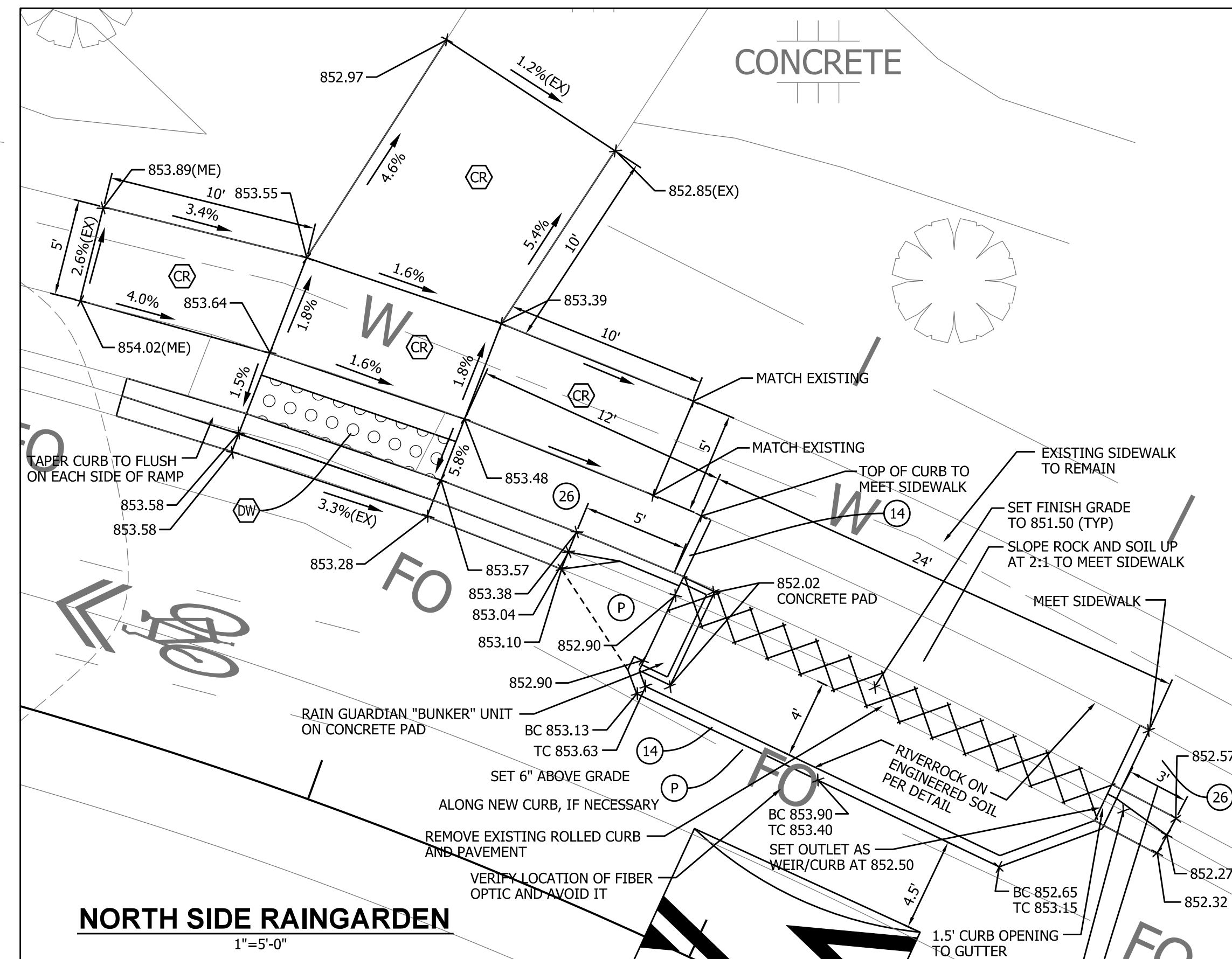
HORIZONTAL SCALE	ETICA GROUP
1" = 20'-0"	230240
VERTICAL SCALE	
	SHEET NUMBER
	10



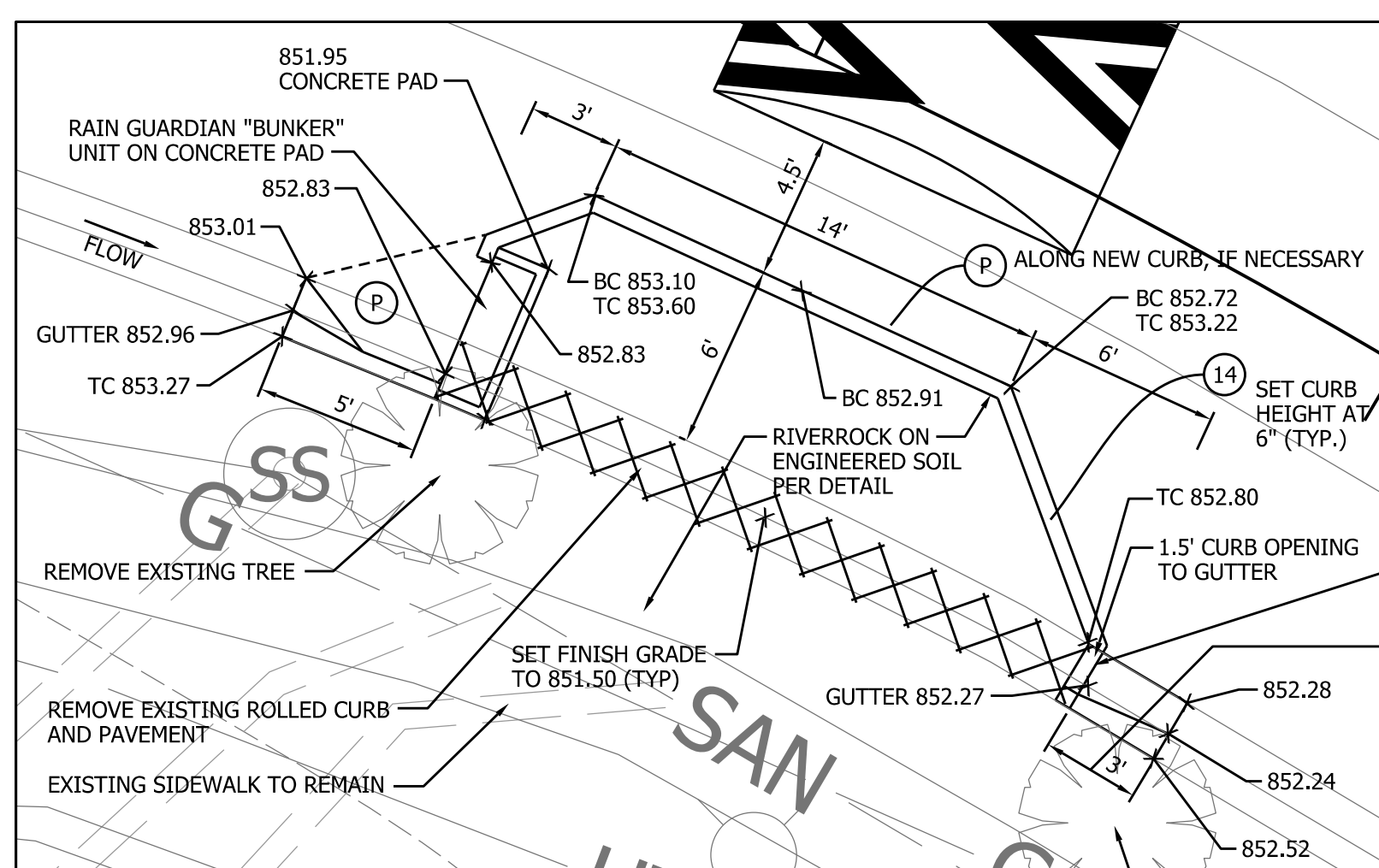
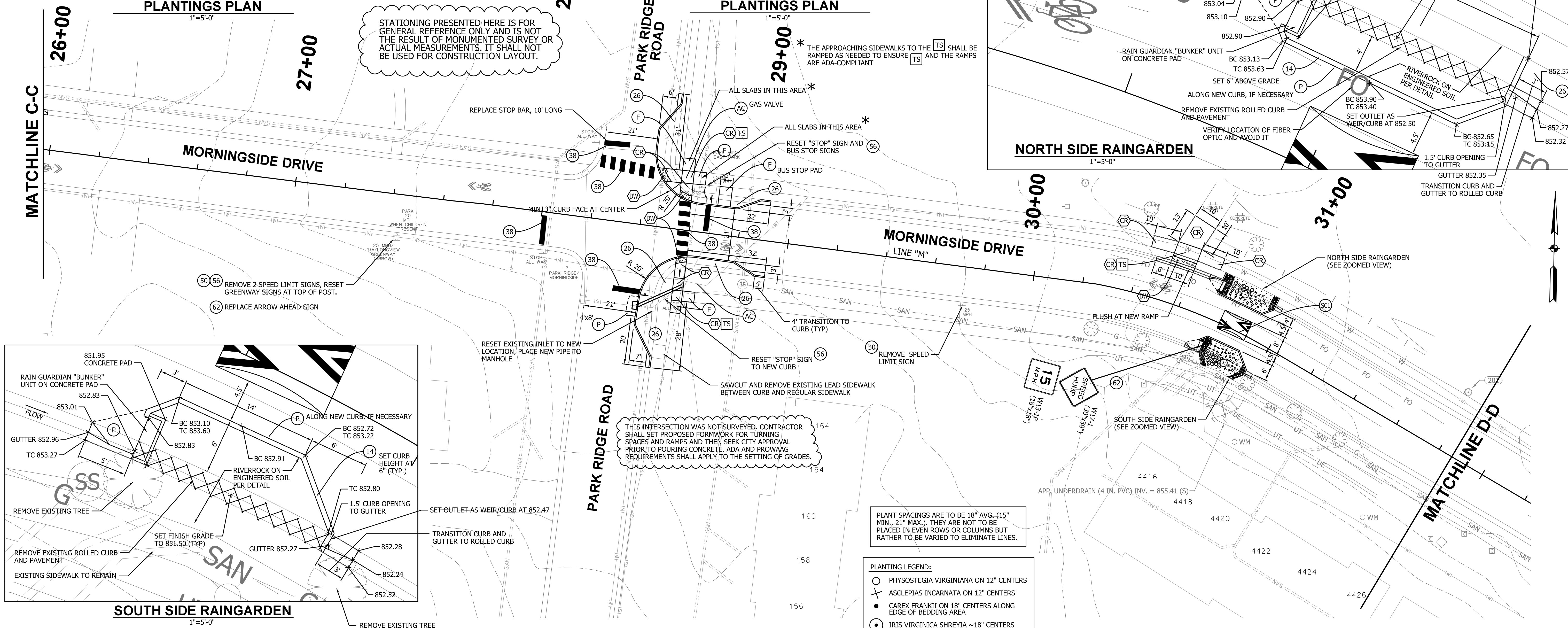
SOUTH SIDE RAINGARDEN PLANTINGS PLAN
1"=5'-0"



NORTH SIDE RAINGARDEN PLANTINGS PLAN
1"=5'-0"



NORTH SIDE RAINGARDEN
1"=5'-0"



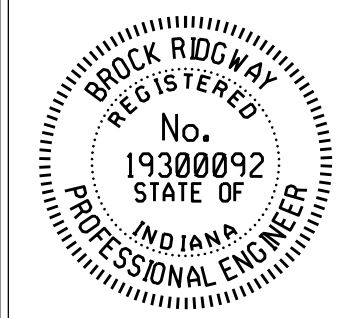
SOUTH SIDE RAINGARDEN
1"=5'-0"

- PLANT SPACINGS ARE TO BE 18" AVG. (15" MIN., 21" MAX.). THEY ARE NOT TO BE PLACED IN EVEN ROWS OR COLUMNS BUT RATHER TO BE VARIED TO ELIMINATE LINES.
- PLANTING LEGEND:**
- PHYSOSTEGIA VIRGINIANA ON 12" CENTERS
 - ✕ ASCLEPIAS INCARNATA ON 12" CENTERS
 - CAREX FRANKII ON 18" CENTERS ALONG EDGE OF BEDDING AREA
 - IRIS VIRGINICA SHREYIA ~18" CENTERS

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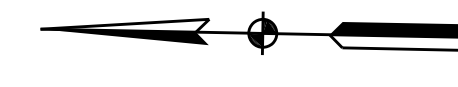


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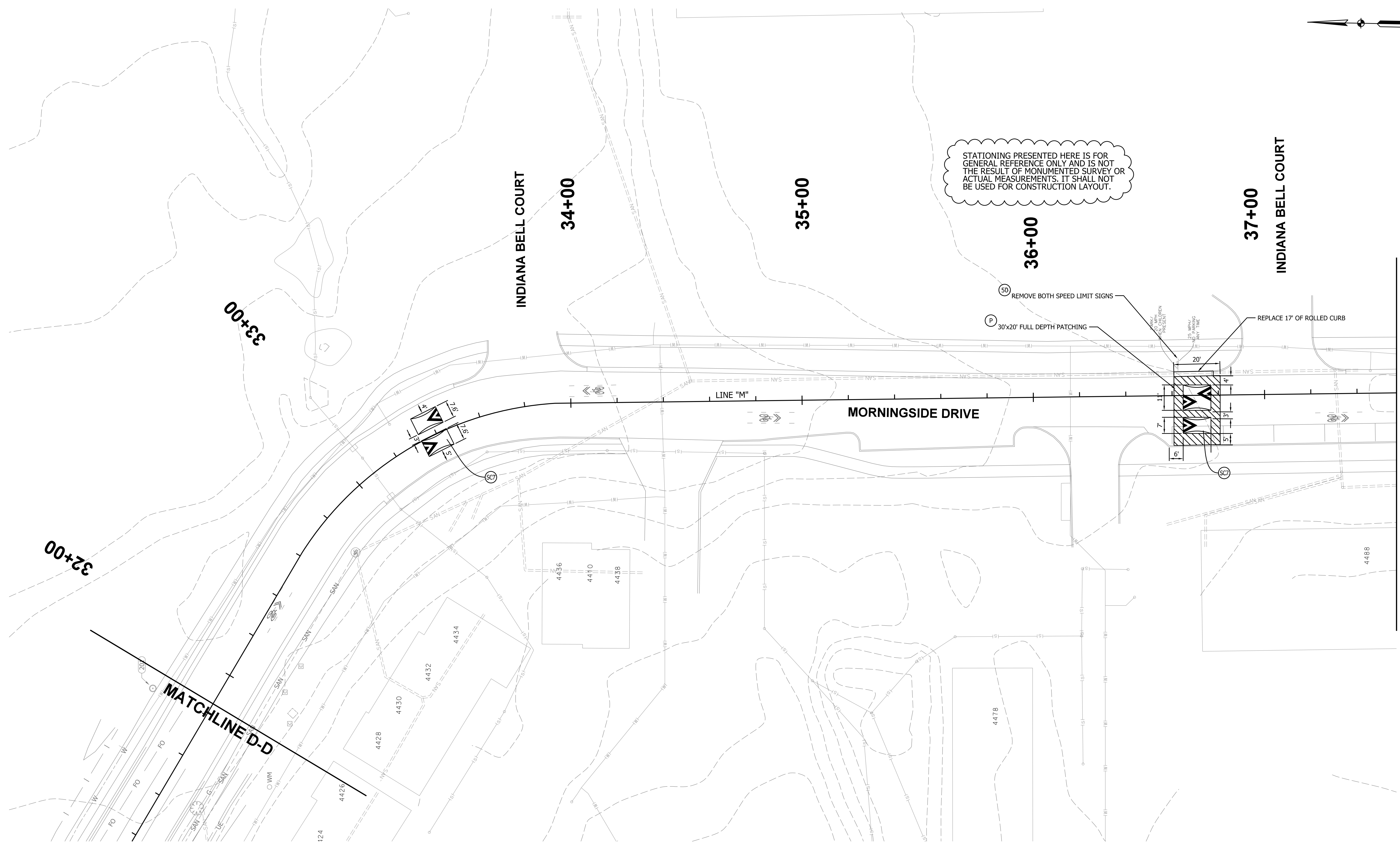
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NEIGHBORHOOD GREENWAY PLANS
MORNINGSIDE DRIVE

HORIZONTAL SCALE	ETICA GROUP
1" = 20'-0"	230240
VERTICAL SCALE	
	SHEET NUMBER
	11



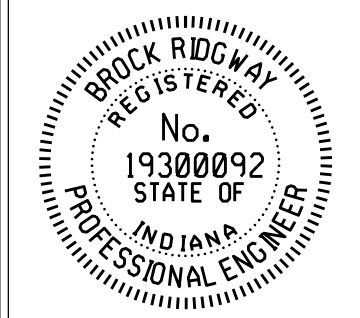
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CHECKED:	MT	CHECKED:	BR	

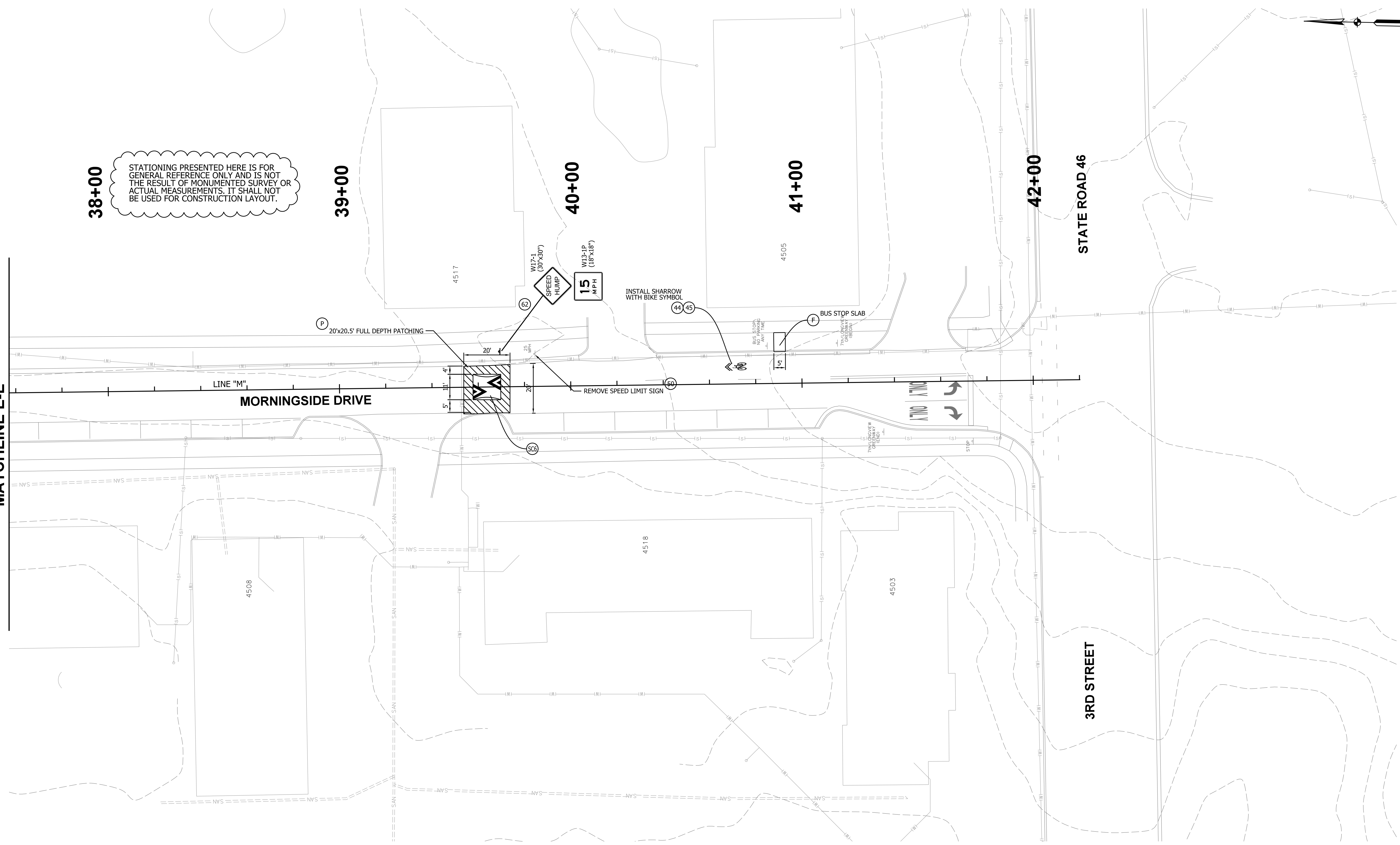
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NEIGHBORHOOD GREENWAY PLANS
MORNINGSIDE DRIVE

HORIZONTAL SCALE	ETICA GROUP
1" = 20'-0"	230240
VERTICAL SCALE	
	SHEET NUMBER
	12

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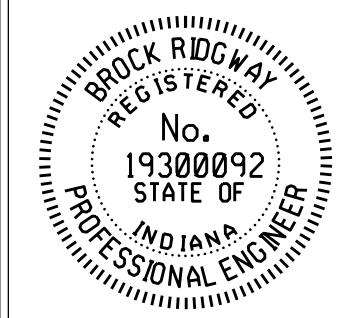
MATCHLINE E-E



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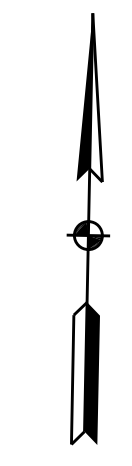
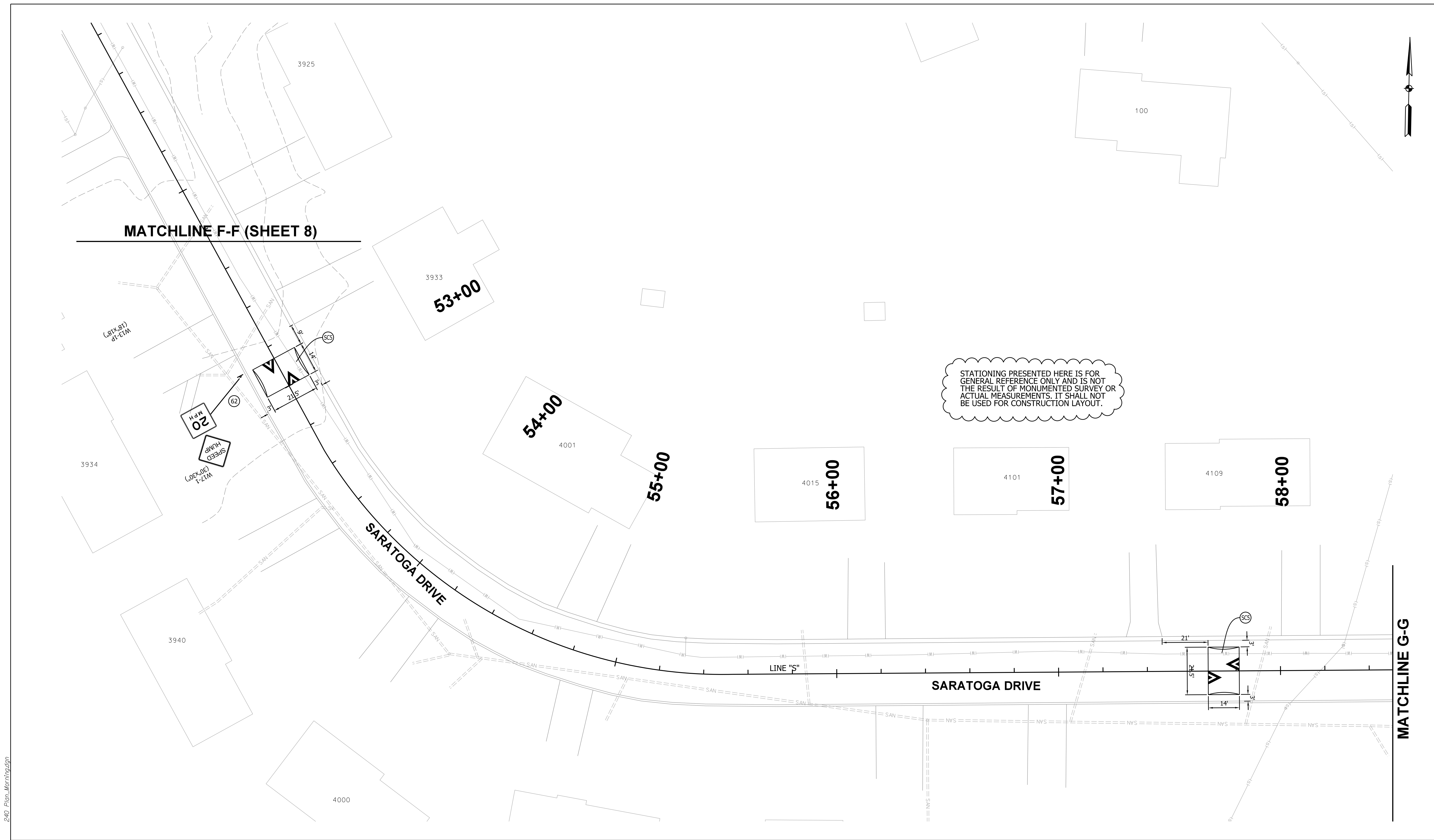


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NEIGHBORHOOD GREENWAY PLANS
MORNINGSIDE DRIVE

HORIZONTAL SCALE	ETICA GROUP
1" = 20'-0"	230240
VERTICAL SCALE	
	SHEET NUMBER
	13

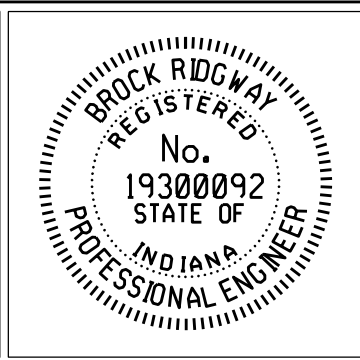


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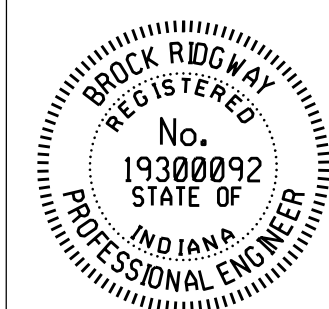
NEIGHBORHOOD GREENWAY PLANS
MORNINGSIDE DRIVE

HORIZONTAL SCALE	ETICA GROUP
1" = 20'-0"	230240
VERTICAL SCALE	
	SHEET NUMBER
	14

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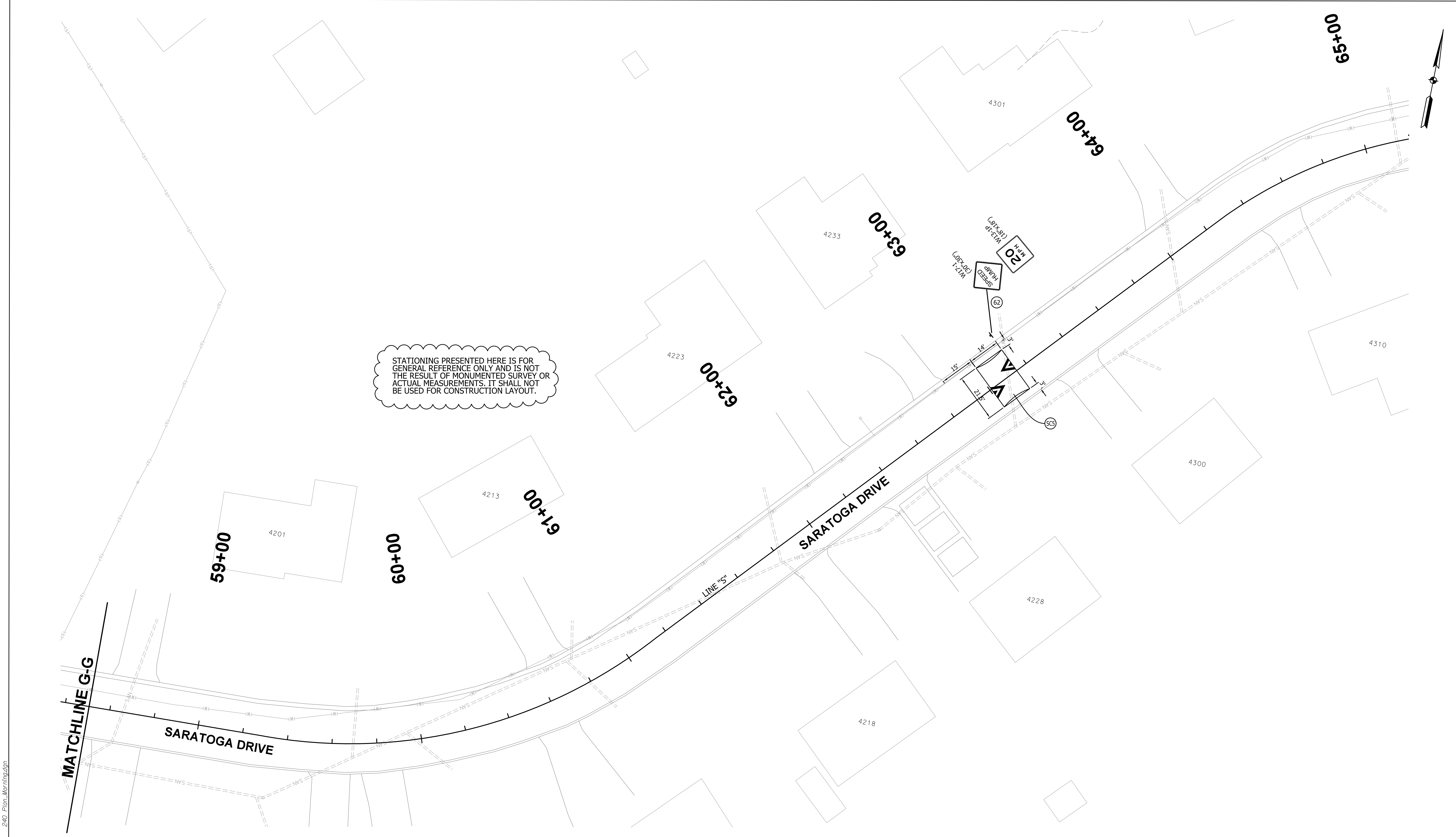


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NEIGHBORHOOD GREENWAY PLANS
MORNINGSIDE DRIVE

HORIZONTAL SCALE	ETICA GROUP
1" = 20'-0"	230240
VERTICAL SCALE	
	SHEET NUMBER
	15



240 Plan Morningside.dgn