PROJECT	DESIGNATION
0900213	0900213
CONTRACT	

INDIANA DEPARTMENT OF TRANSPORTATION

ROAD PLANS

ROUNDABOUT AT SARE ROAD AND ROGERS ROAD

INTERSECTION IMPROVEMENT WITH STORM SEWERS, CURB AND GUTTER, SIDEWALKS, RECREATIONAL SIDEPATH AND WATER (TRANSMISSION) PIPING IN SECTIONS 11 AND 14, T-8-N, R-1-W, AT CITY LIMITS OF BLOOMINGTON, INDIANA, MONROE COUNTY, PERRY TOWNSHIP

LATITUDE: BEGIN 39°08'05" N; MIDDLE 39°08'09" N; END 39°08'19" N
LONGITUDE: BEGIN 86°29'48" W; MIDDLE 86°29'48" W; END 86°29'48" W

PROJECT NO. 0900213 CN

TRAFFIC DATA	SARE ROAD	ROGERS ROAD
A.A.D.T. 2011	10,437 V.P.D.	7,146 V.P.D.
A.A.D.T. 2031	13,477 V.P.D.	9,228 V.P.D.
D.H.V 2031	1,258 V.P.H.	882 V.P.H.
DIRECTIONAL DISTRIBUTION	50/50	50/50
TRUCKS	2.0% (A.A.D.T./D.H.V.)	2.0% (A.A.D.T./D.H.V.)
DESIGN DATA		
DESIGN SPEED	40 M.P.H.	40 M.P.H.
PROJECT DESIGN CRITERIA	3R NON-FREEWAY	3R NON-FREEWAY
FUNCTIONAL CLASSIFICATION	LOCAL PRINCIPAL ARTERIAL	LOCAL SECONDARY ARTERIAL
RURAL/URBAN	URBAN (SUBURBAN)	URBAN (SUBURBAN)
TERRAIN	ROLLING	ROLLING
ACCESS CONTROL	NONE	NONE

FIELD CHECK PLANS

CITY OF BLOOMINGTON

HON. MARK KRUZAN, MAYOR

BOARD OF PUBLIC WORKS

CHARLOTTE ZIETLOW, PRESIDENT

JAMES McNAMARA, VICE PRESIDENT

DR. FRANK HRISOMALOS, MEMBER

DEPARTMENT OF PUBLIC WORKS

SUSIE JOHNSON, DIRECTOR

JUSTIN WYKOFF, MANAGER, ENGINEERING SERVICES

ADRIAN REID, P.E., CITY ENGINEER

Gross Length: 0.51 Mile
Net Length: 0.51 Mile
Maximum Grade: 6.38%

T-9-N
T-8-N

END CONSTRUCTION
STA. 69+32.27 "B"

END PROJECT
STA. 24+26.03 "A"

BEGIN CONSTRUCTION
STA. 54+15.00 "B"

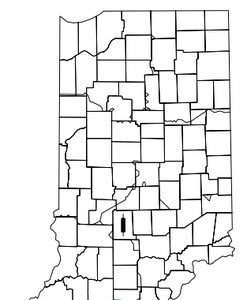
R-1-W

BEGIN PROJECT
STA. 12+80.00 "A"

R-1-W

0 1 MILE

PROJECT LOCATION MAP
CITY OF BLOOMINGTON, MONROE COUNTY



PROJECT LOCATION SHOWN BY

FIELD CHECK PLANS
7/22/10
FOR REVIEW ONLY

INDIANA DEPARTMENT OF TRANSPORTATION
STANDARD SPECIFICATIONS DATED 2010
TO BE USED WITH THESE PLANS

ROUNDABOUT AT SARE ROAD AND ROGERS ROAD, BLOOMINGTON

PREPARED BY:
EAGLE RIDGE CIVIL ENGINEERING SERVICES, LLC
1321 Laurel Oak Drive
Avon, Indiana 46123
(317)370-9672

PLANS PREPARED BY: EAGLE RIDGE CIVIL ENGINEERING SERVICES, LLC (317) 370-9672 PHONE NUMBER

CERTIFIED BY: DATE

APPROVED FOR LETTING: DATE

DESIGNATION
0900213

SURVEY BOOK	SHEETS
	1 of 35
CONTRACT	PROJECT
X	0900213

UTILITIES

CABLE TELEVISION
COMCAST
ATTN: SCOTT TEMPLETON
2450 SOUTH HENDERSON ST.
BLOOMINGTON, IN 47401
(812) 355-7822

GAS
VECTREN ENERGY
ATTN: DOUG ANDERSON
205 SOUTH MADISON
BLOOMINGTON, IN 47404
(812) 330-4009

FOR SERVICE RELOCATIONS
(48 HOUR NOTICE NEEDED)
ATTN: GREG THACKER
(812) 330-4001

ELECTRIC
DUKE ENERGY
ATTN: KERRY DUCKER
1100 WEST SECOND ST.
P.O. BOX 2448
BLOOMINGTON, IN 47403
(812) 337-3035

SEWER AND WATER
CITY OF BLOOMINGTON UTILITIES
ATTN: JANE FLEIG, P.E.
600 E. MILLER DRIVE
BLOOMINGTON, IN 47401
(812) 349-3631

DATA
BLOOMINGTON DIGITAL UNDERGROUND
ATTN: RICK ROUTON
IT'S DEPT., CITY HALL
401 N. MORTON ST.
SUITE 150
BLOOMINGTON, IN 47404
(812) 349-3856

TELEPHONE/COMMUNICATIONS
AT & T
ATTN: BRENT McCABE
4517 INDIANA BELL COURT
BLOOMINGTON, IN 47408
(812) 334-4521

SMITHVILLE TELEPHONE CO.
ATTN: JACK HILLENBERG
1600 W. TEMPERANCE ST.
ELLETTSVILLE, IN 47429-0729
(812) 876-9103

ZAYO BANDWIDTH
ATTN: CRAIG BROWN
701 W. HENRY ST.
INDIANAPOLIS, IN 46225
(317) 524-5711

LEVEL 3 COMMUNICATIONS
ATTN: MARK CONDER
1902 S. EAST STREET
INDIANAPOLIS, IN 46225
(317) 908-9109

GENERAL NOTES

*	ALL EARTH SHOULDERS, MEDIAN AREAS, AND CUT OR 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.
	ALUMINUM BAS BRACING (1/4" X 1" X LENGTH REQUIRED) WILL BE REQUIRED ON ALL SQUARE POST MOUNTED SIGNS EXCEEDING 60" IN LENGTH.
*	POST LENGTHS ARE APPROXIMATE. THE CONTRACTOR SHALL DETERMINE THE POST LENGTHS REQUIRED TO ASSURE THAT THE SIGNS ARE INSTALLED WITH THE MOUNTING HEIGHT BEING IN ACCORDANCE WITH THE MICELLANEOUS TRAFFIC STANDARD DETAILS SHEETS.
*	UNLESS OTHERWISE NOTED IN THESE PLANS, THE CONTRACTOR SHALL FURNISH AND INSTALL ALL MATERIAL REQUIRED FOR THE COMPLETE INSTALLATION OF THE SIGNS AND SIGN SUPPORTS. SHEET SIGNS AND POSTS ARE NOT TO BE ORDERED UNTIL THE EXACT NUMBER OF SIGNS AND LENGTH OF EACH POST HAS BEEN DETERMINED UPON FIELD INVESTIGATION.
*	ALL SIGNS SHALL BE MARKED FOR IDENTIFICATION. THE MARKING MATERIAL SHALL BE EITHER SCOTCH LITE, SEIBULITE, REFLEXITE OR APPROVED EQUAL. THE IDENTIFYING MESSAGE SHALL CONSIST OF INDOT AND THE MONTH AND YEAR THE SIGN IS INSTALLED. THE MESSAGE COPY SHALL CONSIST OF BLACK OR WHITE LETTERING ON THE WHITE OR BLACK BACKGROUND RESPECTIVELY AND BE OF A MINIMUM OF 1" IN HEIGHT. THE MARKING FOR SHEET SIGNS SHALL BE PLACED IN THE LOWER CORNER CLOSEST TO THE CENTER LINE OF THE ROAD. THE MARKING SHALL NOT BE COVERED BY THE SIGN'S SUPPORT AFTER INSTALLATION OF THE SIGN.
*	STOP SIGN SHALL NOT BE REMOVED UNTIL THE NEW ONE IS AT THE JOB SITE AND READY TO BE INSTALLED. SIGNS SHALL BE SEEN BY TRAVEL MOTORISTS AT ALL TIMES.
	ALL DESIGN SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS (LATEST EDITION).

* NOTE APPLIES TO THIS CONTRACT

INDEX

SHEET NO.	DRAWINGS INDEX
1	TITLE SHEET
2	GENERAL NOTES / UTILITIES / INDEX / LEGEND
3 - 4	TYPICAL CROSS SECTIONS AND DETAILS
5 - 14	MAINTENANCE OF TRAFFIC AND EROSION CONTROL PLANS
15 - 20	PLAN AND PROFILES
21	ROUNDABOUT DETAIL AND GRADING PLAN
22 - 23	LANDSCAPING/PLANTING PLANS
24	LIGHTING PLAN AND DETAILS
25 - 26	RETAINING WALL DETAILS
27 - 28	SIGN AND PAVEMENT MARKING PLANS
29	SIGN SUMMARY
30	WATERMAIN DETAILS
31	MISCELLANEOUS SUMMARY OF QUANTITIES
32	PAVEMENT QUANTITIES AND APPROACH TABLE
33	UNDERDRAIN TABLE
34 - 35	STRUCTURE DATA / PIPE MATERIAL / UNDERDRAIN TABLES
XS1 - XS23	CROSS SECTIONS

REVISIONS

SHEET NO.	DATE	REVISED

GENERAL LEGEND (EXISTING SCREENED, PROPOSED IN BOLD)

- UTILITY HAND HOLE
- LIGHT POLE
- WATER VALVE
- GAS VALVE
- INLETS
- HYDRANT
- TRAFFIC MANHOLE
- TREES
- FLAG POLE
- SIGN (1 OR 2 POST)
- STUMP
- POWER POLE
- GUY WIRE
- GAS METER
- WATER METER
- MAILBOX
- YARD LIGHT
- POWER POLE WITH LIGHT AND RISER
- POWER POLE WITH RISER
- CONTROLLER
- SIGNAL POLE
- PEDESTRIAN SIGNAL POLE
- ELECTRIC METER
- CLEAN OUT
- MANHOLE (STORM, SANITARY OR COMBINED)
- STORM / SANITARY SEWER
- UNDERGROUND ELECTRIC
- TELEPHONE LINE
- OVERHEAD UTILITY
- WATER LINE
- GAS LINE
- PROPERTY LINE
- EXISTING RIGHT-OF-WAY LINE
- PROPOSED RIGHT-OF-WAY LINE
- WIRE FENCE
- SPLIT RAIL FENCE/WOODEN FENCE
- CHAIN LINK FENCE
- PROPOSED LIGHT POLE
- NEW TREES
- POLE REMOVAL OR RELOCATION BY UTILITY
- EXISTING PAVEMENT TO BE REMOVED
- PROPOSED PIPE/MANHOLE
- PROPOSED STONE WALL

MAINTENANCE OF TRAFFIC AND EROSION CONTROL ITEMS

- INDOT STANDARD DRUM WITH STEADY BURN LIGHTS
- FLASHING ARROW SIGN
- DETOUR ROUTE MARKER ASSEMBLY (LETTER DENOTES TYPE)
- BARRICADE (TYPE III)
- CONSTRUCTION SIGNS (SHAPE PER MUTCD)
- TRAFFIC FLOW DIRECTION
- ROAD CLOSURE SIGN ASSEMBLY
- BUZZ STRIPS, 6 EACH SET, 8" WIDE, SOLID WHITE THERMOPLASTIC LINES
- (RR) TEMPORARY CHECK DAM, REVETMENT RIPRAP
- (SB) TEMPORARY CHECK DAM, STRAW BALES
- (CI) INLET PROTECTION, CURB
- (DI) DITCH INLET PROTECTION
- (SF) TEMPORARY SILT FENCING

PROPOSED ITEMS

- (A1) PLAIN PORTLAND CEMENT CONCRETE PAVEMENT (TO BE DETERMINED)
- (C1) 6" CONCRETE PAVEMENT FOR DRIVES ON 6" COMPACTED AGGREGATE BASE NO.53S (CLASS 1)
- (C3) 9" CONCRETE PAVEMENT FOR DRIVES ON 6" COMPACTED AGGREGATE BASE No.53 (CLASS III DRIVES AND ALLEYS)
- (CL) APPROXIMATE CONSTRUCTION LIMITS
- (D4) HMA PAVEMENT FOR DRIVES AND PARKING LOTS 165 lb/syd HMA TYPE B SURFACE 95mm ON, 275 lb/syd HMA TYPE B INTERMEDIATE 19.0mm ON, 8" COMPACTED AGGREGATE BASE No.53s
- (F) CONCRETE SIDEWALK (MATCH EXISTING WIDTH IF PRESENT)
- (K1) FULL DEPTH PAVEMENT (TO BE DETERMINED)
- (K2) FULL DEPTH PAVEMENT FOR MINOR LOCAL ROAD (TO BE DETERMINED)
- (K3) FULL DEPTH SIDEPATH PAVEMENT
- (R1) RESURFACING SECTIONS (TO BE DETERMINED)
- (R3) VARIABLE DEPTH WEDGE AND LEVEL WITH OVERLAY SECTION (TO BE DETERMINED)
- (P) ROAD PATCHING
- (SL) APPROXIMATE SUSPECTED LOCATION OF SANITARY SERVICE LATERAL TO BE REPLACED
- (9) 1/2 IN. PREFORMED JOINT FILLER
- (13) CONCRETE CURB, 8" (EXPOSED FACE)
- (15) COMBINED CONCRETE CURB AND GUTTER, 8" TALL, 24" WIDE
- (16) REVERSE SLOPED CONCRETE CURB AND GUTTER, 8"
- (17) INTEGRAL CONCRETE CURB AND SIDEWALK
- (25) MULCHED SEEDING, TYPE "U"
- (26) SODDING, NURSERY
- (G) CONCRETE CURB RAMP (LETTER DESIGNATES TYPE)
- (T1) TREE, HACKBERRY (CELTIS OCCIDENTALIS), 2"
- (T2) TREE, RED OAK (QUERCUS RUBRA), 1 3/4"
- (T3) TREE, LILAC (SYRINGA RETICULATE "IVORY SILK"), 2"
- (T4) TREE, AMERICAN LINDEN (TILIA AMERICANA "REDMOND"), 2"
- (T5) TREE, GREEN VASE JAPANESE ZELCOVA (ZELCOVA SERRATA), 2"
- (W1) FULL DEPTH WIDENING, LAYERED SAME AS (K1) (SEE TYPICALS)

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: BR | DRAWN: SI
CHECKED: X | CHECKED: BR

INDIANA DEPARTMENT OF TRANSPORTATION

INDEX / GENERAL NOTES / LEGEND / UTILITY DATA

HORIZONAL SCALE	BRIDGE FILE
N/A	N/A
VERTICAL SCALE	DESIGNATION
N/A	0900213
SURVEY BOOK	SHEETS
	2 of 35
CONTRACT	PROJECT
	0900213

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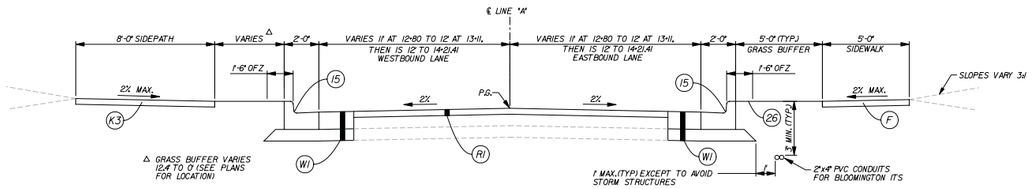
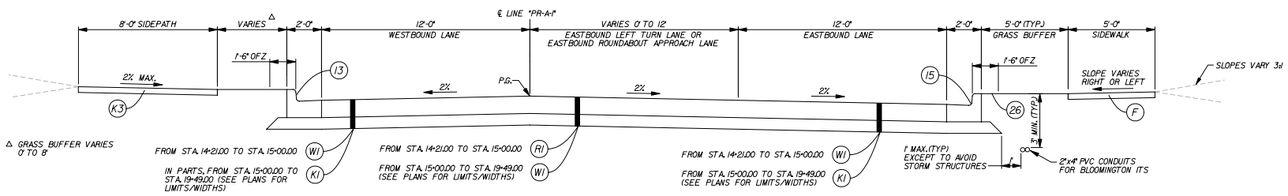
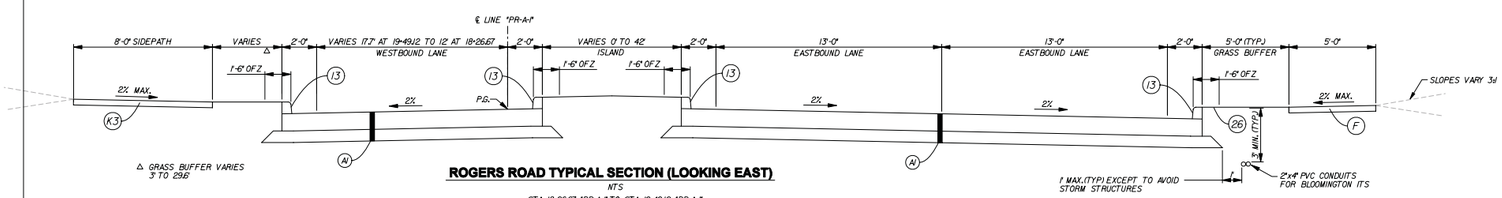


ROGERS ROAD TYPICAL SECTION (LOOKING EAST)

NTS

STA. 12+80.00 "A" TO STA. 14+21.41 "PR-A-1"

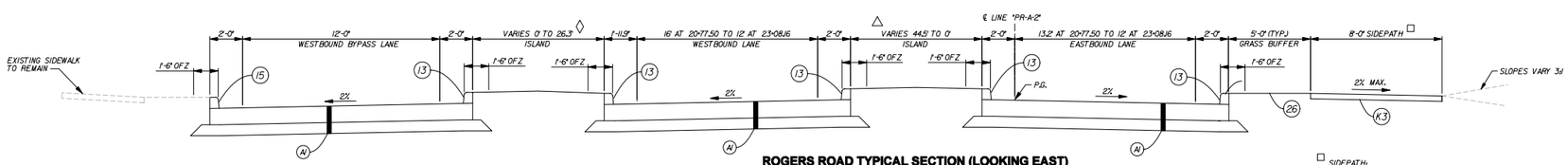




ROGERS ROAD TYPICAL SECTION (LOOKING EAST)

NTS

STA. 18+26.67 "PR-A-1" TO STA. 19+49.12 "PR-A-1"



ROGERS ROAD TYPICAL SECTION (LOOKING EAST)

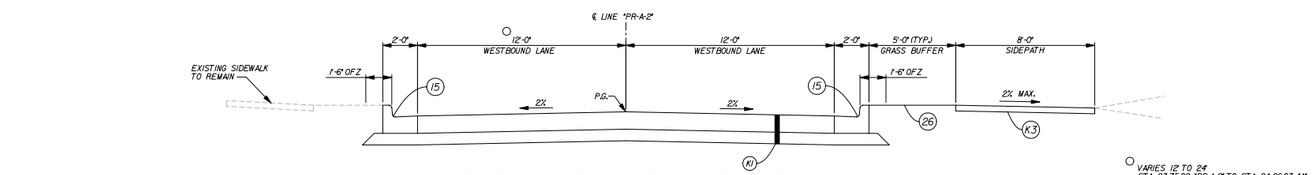
NTS

STA. 20+77.50 "PR-A-2" TO STA. 23+08.16 "PR-A-2"

□ SIDEPATH: STA. 18+73.29 "PR-A-1" TO STA. 24+26.03 "A"

△ ISLAND: STA. 20+77.50 "PR-A-1" TO STA. 21+82.07 "PR-A-1"

◊ ISLAND: STA. 20+77.50 "PR-A-1" TO STA. 21+98.48 "PR-A-1"

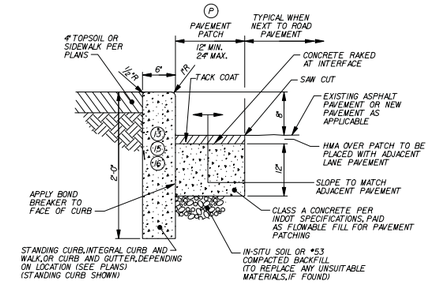


○ VARIES 12' TO 24' STA. 23+75.08 "PR-A-2" TO STA. 24+26.03 "A"

ROGERS ROAD TYPICAL SECTION (LOOKING EAST)

NTS

STA. 23+08.16 "PR-A-2" TO STA. 24+26.03 "A"

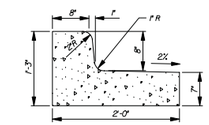


(P) PAVEMENT PATCH AT CURBS DETAIL

NTS

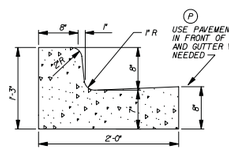
NOTES:

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. CITY APPROVAL IS REQUIRED.
4. PAVEMENT PATCHING REQUIRED WHEREVER EXISTING PAVEMENT MUST BE REPAIRED OR REPLACED NEXT TO REQUIRED CURB, DRIVE OR SIDEWALK WORK.



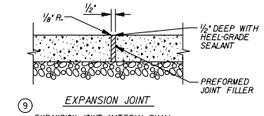
(16) REVERSE SLOPED COMBINED CURB AND GUTTER

NTS



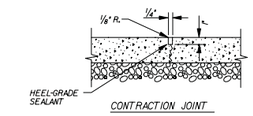
(15) COMBINED CURB AND GUTTER DETAIL

NTS



(9) EXPANSION JOINT

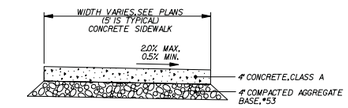
EXPANSION JOINT MATERIAL SHALL BE "ZIP-STRIP" EXPANSION MATERIAL WITH REMOVABLE CAP BY GREENSTREAK OR APPROVED EQUAL.



CONTRACTION JOINT

JOINT IN CONCRETE SIDEWALKS

NTS



(F) TYPICAL SIDEWALK DETAIL

NTS

SIDEWALK JOINT NOTES:

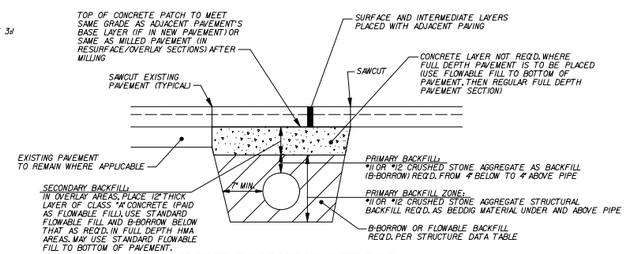
1. INSTALL 1/2" PREFORMED JOINT FILLER BETWEEN SIDEWALKS AND ANY OTHER FIXED FEATURES (CURBS, STEPS, RAMPS, BUILDINGS, ETC.)
2. IN EACH SIDEWALK SEGMENT, TOOL CONSTRUCTION JOINTS AT EVEN SPACING BUT NO MORE THAN 6' MAXIMUM APART. INSTALL AN EXPANSION JOINT WITH 1/2" PREFORMED JOINT FILLER AT A MAXIMUM SPACING EVERY 30' IN SIDEWALKS, AND AT EACH SIDEWALK CONNECTION TO OTHER SIDEWALKS, AT CURBS, AND AT RAMPS.

CURB JOINTS NOTE:

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 AND AT START/END OF DRIVES
   - 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
2. CURBS & COMBINED CURB AND GUTTER SHALL RECEIVE A TOOLED CONTRACTION JOINT AT 20' MAXIMUM SPACING.

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.
2. RAMPS ARE TO RECEIVE DETECTABLE WARNING PLATES. PER CITY STANDARDS, PLATES SHALL BE EAST JORDAN IRON WORKS, MODEL #7005. INSTALL PER MANUFACTURER'S SPECIFICATIONS.



PAVEMENT PATCHING OVER PIPES

NTS

NOTE:
SEE STRUCTURE DATA TABLE FOR BACKFILL MATERIAL REQUIREMENTS.

PAVEMENT SECTIONS:

(A) CONCRETE PAVEMENT (TO BE DETERMINED)

(K) AND (W) FULL DEPTH PAVEMENT FOR ARTERIAL ROAD (TO BE DETERMINED)

(R) RESURFACING SECTIONS (TO BE DETERMINED)

(R3) WEDGE AND LEVEL WITH OVERLAY (TO BE DETERMINED)

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE	INDIANA DEPARTMENT OF TRANSPORTATION	HORIZONAL SCALE: N/A	BRIDGE FILE: N/A
		VERTICAL SCALE: N/A	DESIGNATION: 0900213
DESIGNED: BR / DRAWN: SI	TYPICAL CROSS SECTIONS AND PAVING DETAILS	SURVEY BOOK	SHEETS: 3 of 35
CHECKED: X / CHECKED: BR		CONTRACT	PROJECT: 0900213

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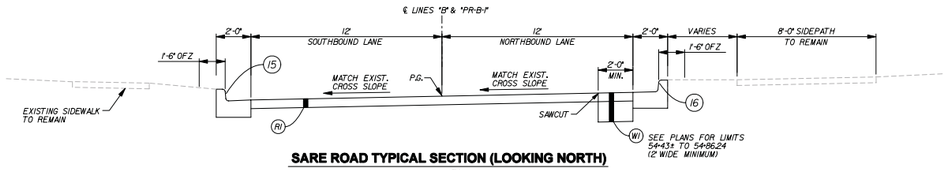
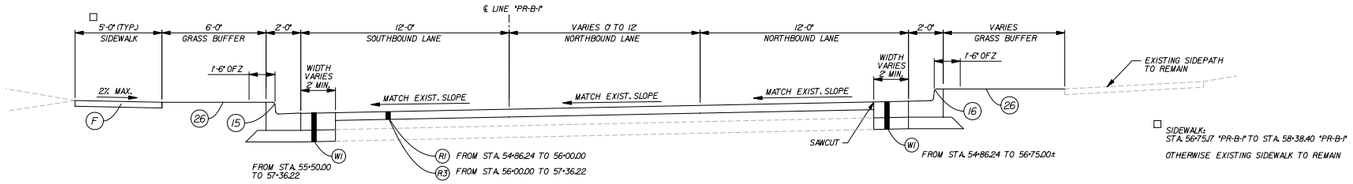


SARE ROAD TYPICAL SECTION (LOOKING NORTH)

NTS

STA. 54+15.00 "B" TO STA. 54+53.36 "PR-B-1"
STA. 54+53.36 "PR-B-1" TO STA. 54+86.24 "PR-B-1"



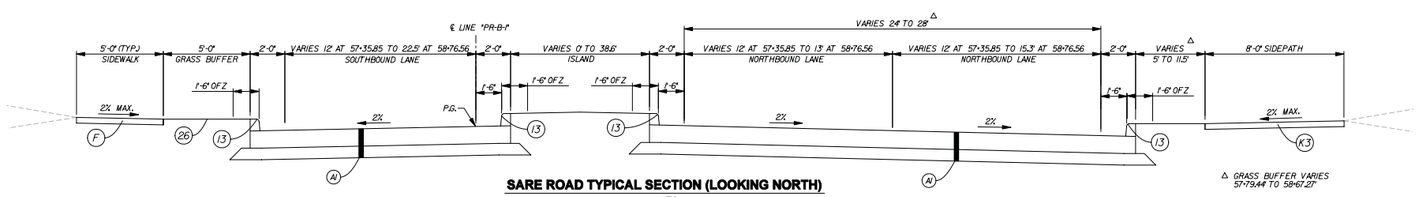
□ SIDEWALK: STA. 56+75.17 "PR-B-1" TO STA. 58+38.40 "PR-B-1"

OTHERWISE EXISTING SIDEWALK TO REMAIN

SARE ROAD TYPICAL SECTION (LOOKING NORTH)

NTS

STA. 54+86.24 "PR-B-1" TO STA. 57+36.22 "PR-B-1"

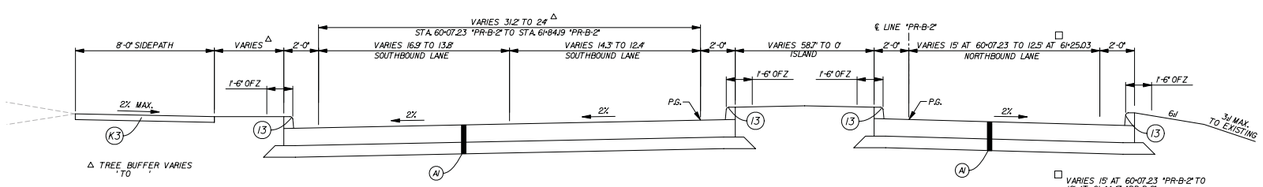


△ GRASS BUFFER VARIES 57+79.44 TO 58+67.27

SARE ROAD TYPICAL SECTION (LOOKING NORTH)

NTS

STA. 57+36.22 "PR-B-1" TO STA. 58+76.56 "PR-B-1"



△ TREE BUFFER VARIES 'TO '

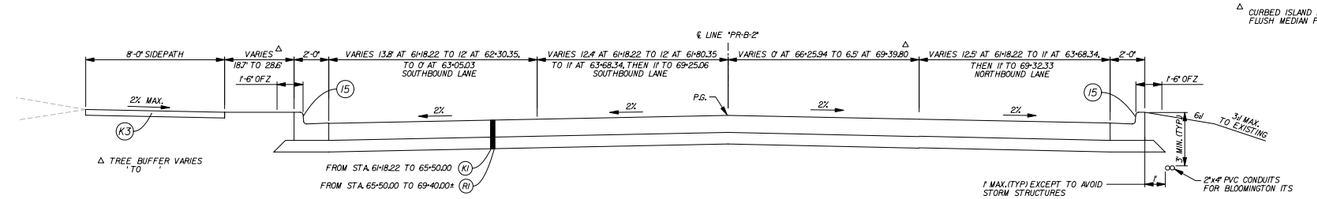
□ VARIES 15' AT 60+07.23 "PR-B-2" TO 12' AT 61+44.47 "PR-B-2"

SARE ROAD TYPICAL SECTION (LOOKING NORTH)

NTS

STA. 60+07.23 "PR-B-2" TO STA. 61+18.22 "PR-B-2"

△ CURBED ISLAND PER PLANS FROM STA. 68+58.90 TO STA. 69+39.80. FLUSH MEDIAN PAVEMENT FROM STA. 66+25.94 TO STA. 68+58.90

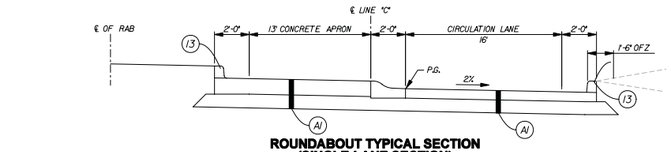


△ TREE BUFFER VARIES 'TO '

SARE ROAD TYPICAL SECTION (LOOKING NORTH)

NTS

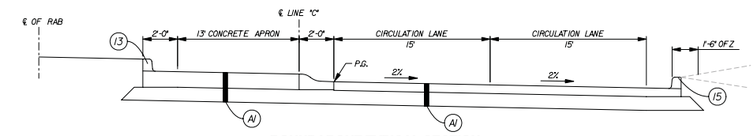
STA. 61+18.22 "PR-B-2" TO STA. 62+26.73 "PR-B-2"
STA. 62+26.73 "B" TO STA. 66+25.94 "B"
STA. 66+25.94 "PR-B-2" TO STA. 69+39.88 "PR-B-2"



ROUNDABOUT TYPICAL SECTION (SINGLE-LANE SECTION)

NTS

STA. XXX "C" TO STA. XXX "C"



ROUNDABOUT TYPICAL SECTION (TWO-LANE SECTION)

NTS

STA. XXX "C" TO STA. XXX "C"

PAVEMENT SECTIONS:

- A1 — CONCRETE PAVEMENT (TO BE DETERMINED)
- K1 — FULL DEPTH PAVEMENT FOR ARTERIAL ROAD (TO BE DETERMINED)
- K2 — FULL DEPTH PAVEMENT FOR MINOR LOCAL ROAD (TO BE DETERMINED)
- R1 — RESURFACING SECTIONS (TO BE DETERMINED)

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE		INDIANA DEPARTMENT OF TRANSPORTATION	HORIZONAL SCALE: N/A; BRIDGE FILE: N/A; VERTICAL SCALE: N/A; DESIGNATION: 0900213
DESIGNED: BR	DRAWN: SI	TYPICAL CROSS SECTIONS AND PAVING DETAILS	SURVEY BOOK; SHEETS: 4 of 35
CHECKED: X	CHECKED: BR		CONTRACT; PROJECT: 0900213

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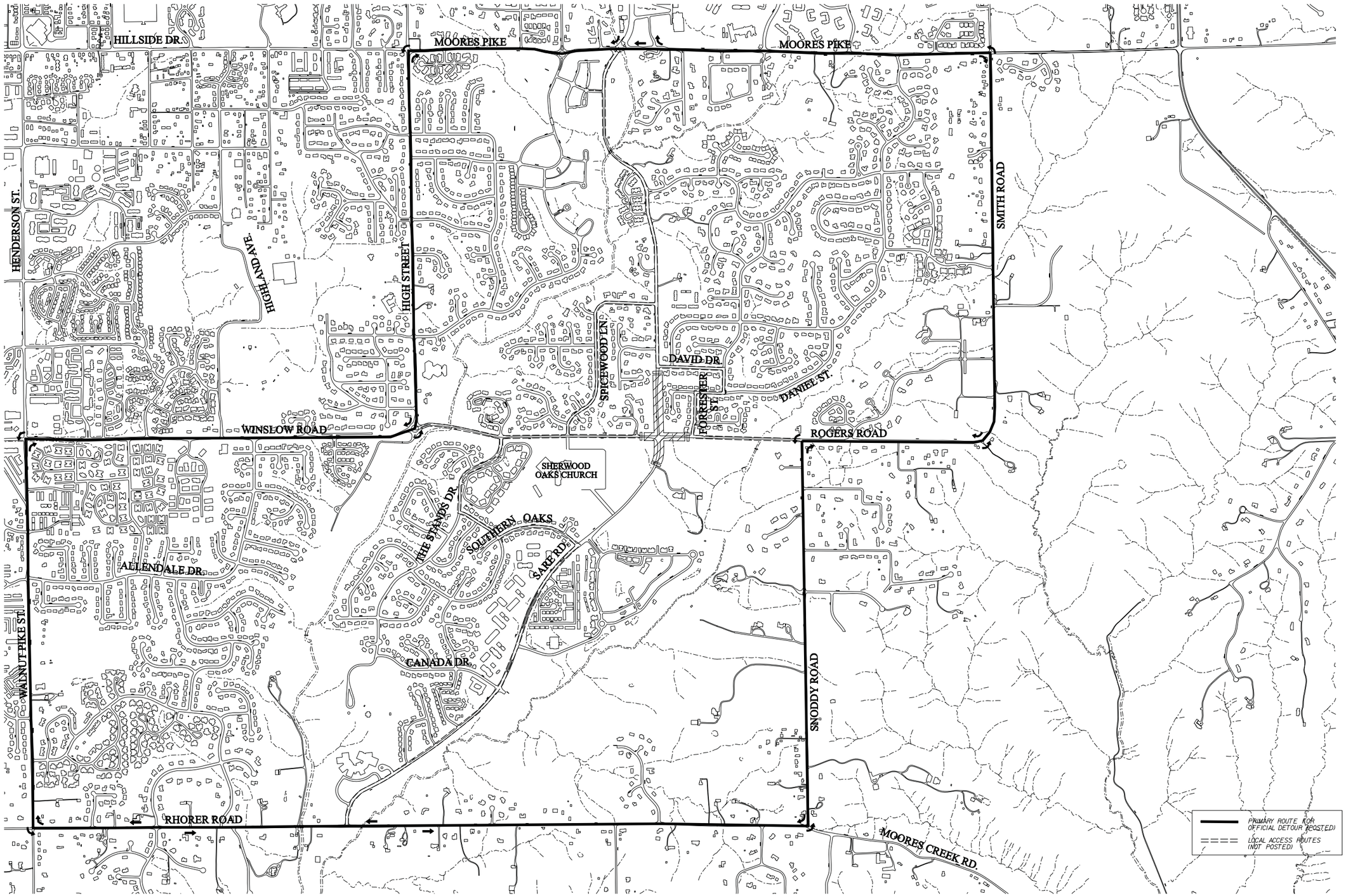
4:49:44 AM
7/21/2010
Det2



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CLOSURE01
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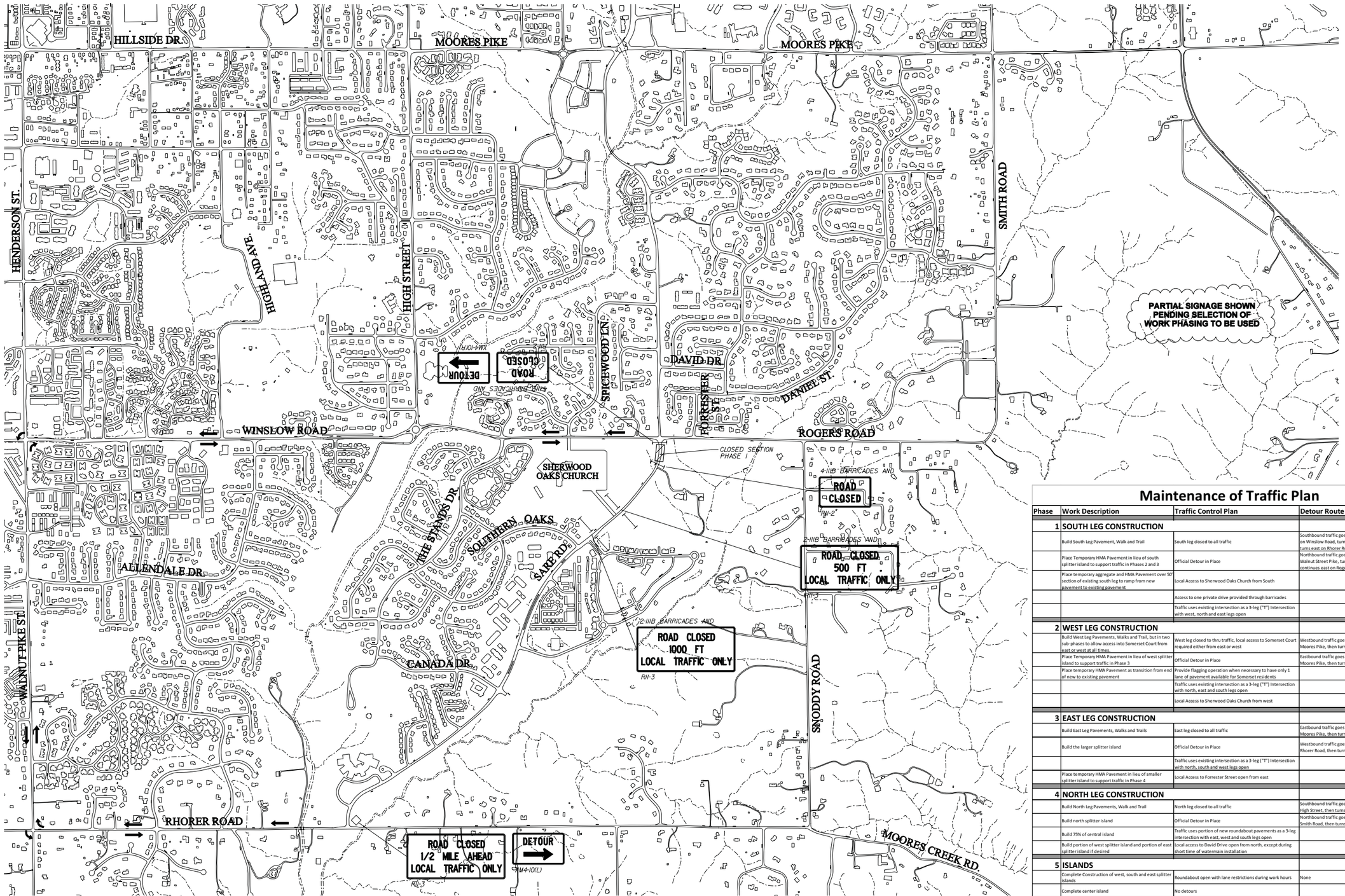
RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE		INDIANA DEPARTMENT OF TRANSPORTATION	HORIZONAL SCALE 1" = 600'-0"
DESIGNED: BR	DRAWN: SI		VERTICAL SCALE
CHECKED: X	CHECKED: BR	MAINTENANCE OF TRAFFIC FULL CLOSURE OPTION	SURVEY BOOK
			CONTRACT

BRIDGE FILE	N/A
DESIGNATION	0900213
SHEETS	5 of 35
PROJECT	0900213



Maintenance of Traffic Plan

Phase	Work Description	Traffic Control Plan	Detour Route
1	**SOUTH LEG CONSTRUCTION**		
	Build South Leg Pavement, Walk and Trail	South leg closed to all traffic	Southbound traffic goes west on Rogers Street, continues west on Winslow Road, turns south on Walnut Street Pike, then turns east on Rhorer Road to Sare Road.
	Place Temporary HMA Pavement in lieu of south splitter island to support traffic in Phases 2 and 3	Official Detour in Place	Northbound traffic goes west on Rhorer Road, turns north on Walnut Street Pike, turns east on Winslow Road then continues east on Rogers Road to Sare Road
	Place temporary aggregate and HMA Pavement over 50' section of existing south leg to ramp from new pavement to existing pavement	Local Access to Sherwood Oaks Church from South	
		Access to one private drive provided through barricades	
		Traffic uses existing intersection as a 3-leg ("T") Intersection with west, north and east legs open	
2	**WEST LEG CONSTRUCTION**		
	Build West Leg Pavements, Walks and Trail, but in two sub-phases to allow access into Somerset Court from east or west at all times.	West leg closed to thru traffic, local access to Somerset Court required either from east or west	Westbound traffic goes north on Sare Road, turns west on Moores Pike, then turns south on High Street to Rogers Road
	Place Temporary HMA Pavement in lieu of west splitter island to support traffic in Phase 3	Official Detour in Place	Eastbound traffic goes north on High Street, turns east of Moores Pike, then turns south on Sare Road to Rogers Road
	Place temporary HMA Pavement as transition from end of new to existing pavement	Provide flagging operation when necessary to have only 1 lane of pavement available for Somerset residents	
		Traffic uses existing intersection as a 3-leg ("T") Intersection with north, east and south legs open	
		Local Access to Sherwood Oaks Church from west	
3	**EAST LEG CONSTRUCTION**		
	Build East Leg Pavements, Walks and Trails	East leg closed to all traffic	Eastbound traffic goes north on Sare Road, turns east on Moores Pike, then turns south on Smith Road to Rogers Road
	Build the larger splitter island	Official Detour in Place	Westbound traffic goes south on Snoddy Road, turns west on Rhorer Road, then turns north on Sare Road to Rogers Road
		Traffic uses existing intersection as a 3-leg ("T") Intersection with north, south and west legs open	
	Place temporary HMA Pavement in lieu of smaller splitter island to support traffic in Phase 4	Local Access to Forrester Street open from east	
4	**NORTH LEG CONSTRUCTION**		
	Build North Leg Pavements, Walk and Trail	North leg closed to all traffic	Southbound traffic goes west on Moores Pike, turns south on High Street, then turns east on Rogers Road to Sare Road
	Build north splitter island	Official Detour in Place	Northbound traffic goes east on Rogers Road, turns north on Smith Road, then turns west on Moores Pike to Sare Road
	Build 75% of central island	Traffic uses portion of new roundabout pavements as a 3-leg intersection with east, west and south legs open	
	Build portion of west splitter island and portion of east splitter island if desired	Local access to David Drive open from north, except during short time of watermain installation	
5	**ISLANDS**		
	Complete Construction of west, south and east splitter islands	Roundabout open with lane restrictions during work hours	None
	Complete center island	No detours	
	Complete permanent markings		

MAINTENANCE OF TRAFFIC AND EROSION CONTROL LEGEND

- INDOT STANDARD DRUM WITH STEADY BURN LIGHTS
- FLASHING ARROW SIGN
- DETOUR ROUTE MARKER ASSEMBLY (LETTER DENOTES TYPE)
- BARRICADE (TYPE III)
- CONSTRUCTION SIGNS (SHAPE PER MUTCD)
- TRAFFIC FLOW DIRECTION
- ROAD CLOSURE SIGN ASSEMBLY
- (CI) INLET PROTECTION.CURB
- (DI) DITCH INLET PROTECTION
- (SF) TEMPORARY SILT FENCING

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: BR DRAWN: SI

CHECKED: X CHECKED: BR

INDIANA DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC DETOUR ROUTE - PHASE 1

HORIZONAL SCALE	BRIDGE FILE
1" = 600'-0"	N/A
VERTICAL SCALE	DESIGNATION
	0900213
SURVEY BOOK	SHEETS
	6 of 35
CONTRACT	PROJECT
	0900213

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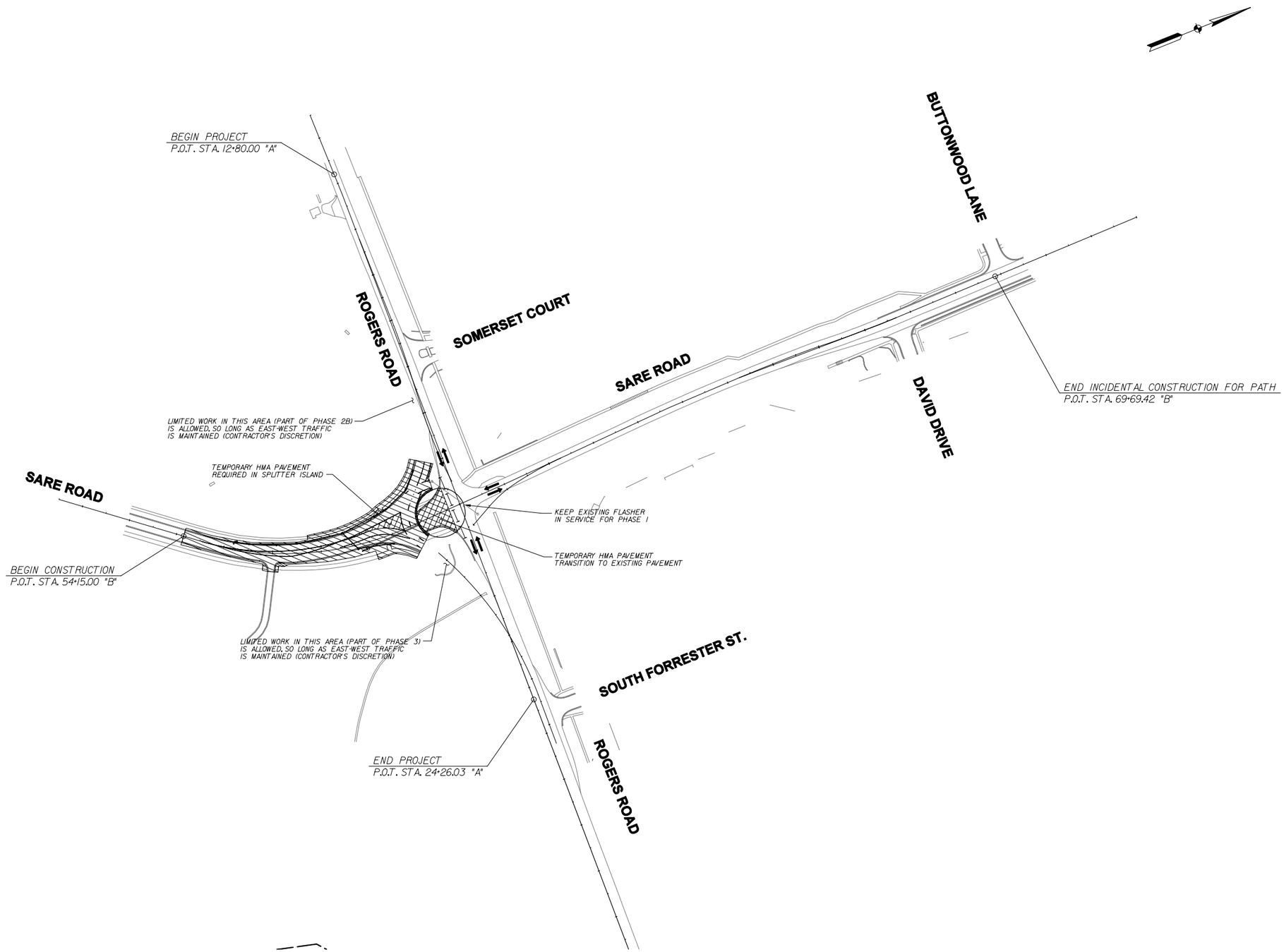
DETOUR-PHI 7/21/2010



MAINTENANCE OF TRAFFIC AND EROSION CONTROL LEGEND

- INDOT STANDARD DRUM WITH STEADY BURN LIGHTS
- FLASHING ARROW SIGN
- DETOUR ROUTE MARKER ASSEMBLY (LETTER DENOTES TYPE)
- BARRICADE (TYPE III)
- CONSTRUCTION SIGNS (SHAPE PER MUTCD)
- TRAFFIC FLOW DIRECTION
- ROAD CLOSURE SIGN ASSEMBLY
- (CI) INLET PROTECTION, CURB
- (DI) DITCH INLET PROTECTION
- (SF) TEMPORARY SILT FENCING
- PERMANENT PAVEMENT REQ'D.
- TEMPORARY PAVEMENT REQ'D.

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: BR | DRAWN: SI
CHECKED: X | CHECKED: BR

INDIANA DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC PHASE 1 - SOUTH LEG

HORIZONAL SCALE	BRIDGE FILE
1" = 100'-0"	N/A
VERTICAL SCALE	DESIGNATION
	0900213
SURVEY BOOK	SHEETS
	7 of 35
CONTRACT	PROJECT
	0900213

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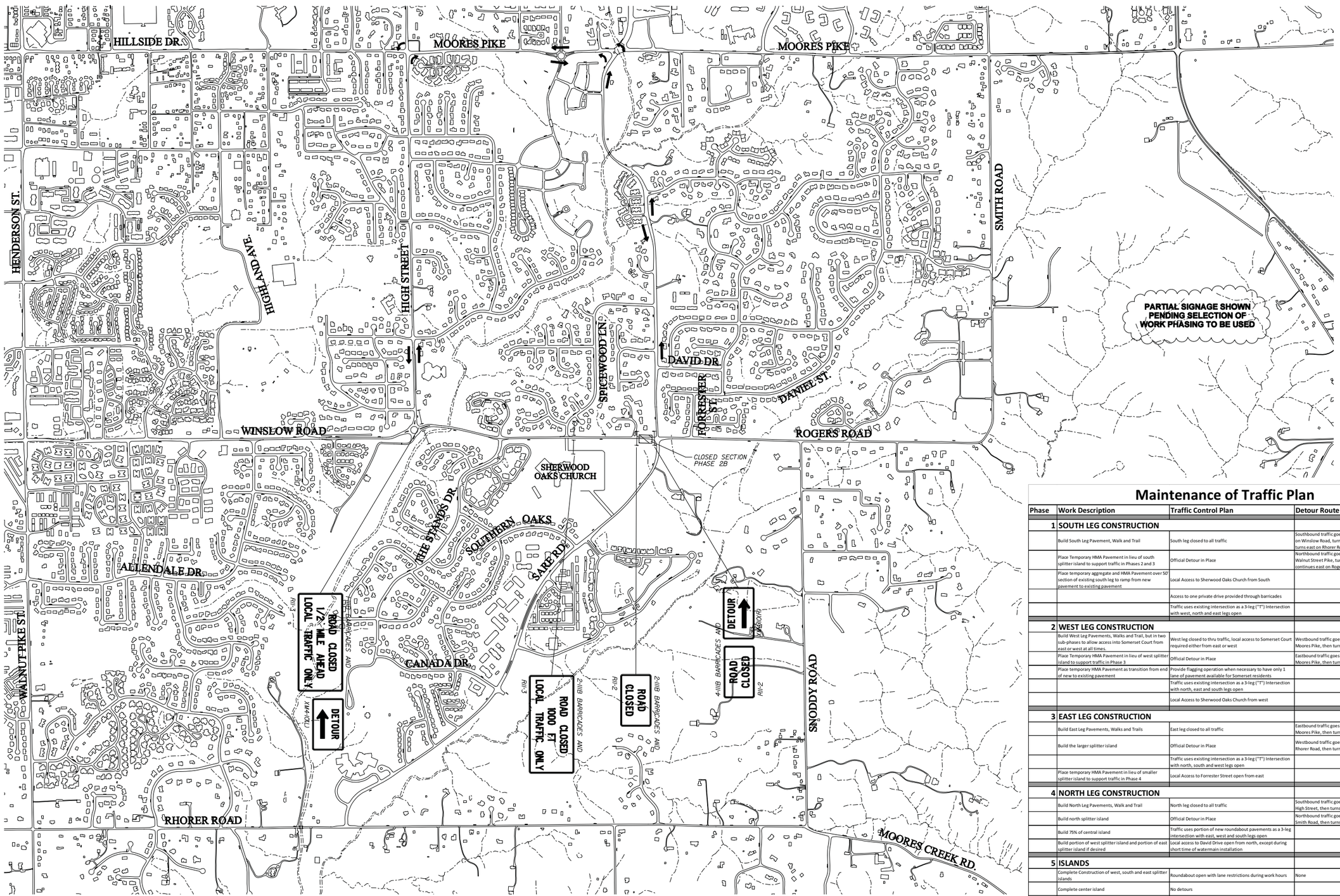
7/21/2010



Maintenance of Traffic Plan

Phase	Work Description	Traffic Control Plan	Detour Route
1	**SOUTH LEG CONSTRUCTION**		
	Build South Leg Pavement, Walk and Trail	South leg closed to all traffic	Southbound traffic goes west on Rogers Street, continues west on Winslow Road, turns south on Walnut Street Pike, then turns east on Rhorer Road to Sare Road.
	Place Temporary HMA Pavement in lieu of south splitter island to support traffic in Phases 2 and 3	Official Detour in Place	Northbound traffic goes west on Rhorer Road, turns north on Walnut Street Pike, turns east on Winslow Road then continues east on Rogers Road to Sare Road
	Place temporary aggregate and HMA Pavement over 50' section of existing south leg to ramp from new pavement to existing pavement	Local Access to Sherwood Oaks Church from South	
		Access to one private drive provided through barricades	
		Traffic uses existing intersection as a 3-leg ("T") Intersection with west, north and east legs open	
2	**WEST LEG CONSTRUCTION**		
	Build West Leg Pavements, Walks and Trail, but in two sub-phases to allow access into Somerset Court from east or west at all times.	West leg closed to thru traffic, local access to Somerset Court required either from east or west	Westbound traffic goes north on Sare Road, turns west on Moores Pike, then turns south on High Street to Rogers Road
	Place Temporary HMA Pavement in lieu of west splitter island to support traffic in Phase 3	Official Detour in Place	Eastbound traffic goes north on High Street, turns east of Moores Pike, then turns south on Sare Road to Rogers Road
	Place temporary HMA Pavement as transition from end of new to existing pavement	Provide flagging operation when necessary to have only 1 lane of pavement available for Somerset residents	
		Traffic uses existing intersection as a 3-leg ("T") Intersection with north, east and south legs open	
		Local Access to Sherwood Oaks Church from west	
3	**EAST LEG CONSTRUCTION**		
	Build East Leg Pavements, Walks and Trails	East leg closed to all traffic	Eastbound traffic goes north on Sare Road, turns east on Moores Pike, then turns south on Smith Road to Rogers Road
	Build the larger splitter island	Official Detour in Place	Westbound traffic goes south on Snoddy Road, turns west on Rhorer Road, then turns north on Sare Road to Rogers Road
		Traffic uses existing intersection as a 3-leg ("T") Intersection with north, south and west legs open	
	Place temporary HMA Pavement in lieu of smaller splitter island to support traffic in Phase 4	Local Access to Forrester Street open from east	
4	**NORTH LEG CONSTRUCTION**		
	Build North Leg Pavements, Walk and Trail	North leg closed to all traffic	Southbound traffic goes west on Moores Pike, turns south on High Street, then turns east on Rogers Road to Sare Road
	Build north splitter island	Official Detour in Place	Northbound traffic goes east on Rogers Road, turns north on Smith Road, then turns west on Moores Pike to Sare Road
	Build 75% of central island	Traffic uses portion of new roundabout pavements as a 3-leg intersection with east, west and south legs open	
	Build portion of west splitter island and portion of east splitter island if desired	Local access to David Drive open from north, except during short time of watermain installation	
5	**ISLANDS**		
	Complete Construction of west, south and east splitter islands	Roundabout open with lane restrictions during work hours	None
	Complete center island	No detours	
	Complete permanent markings		

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MAINTENANCE OF TRAFFIC AND EROSION CONTROL LEGEND

- INDOT STANDARD DRUM WITH STEADY BURN LIGHTS
- FLASHING ARROW SIGN
- DETOUR ROUTE MARKER ASSEMBLY (LETTER DENOTES TYPE)
- BARRICADE (TYPE III)
- CONSTRUCTION SIGNS (SHAPE PER MUTCD)
- TRAFFIC FLOW DIRECTION
- ROAD CLOSURE SIGN ASSEMBLY
- (CI) INLET PROTECTION,CURB
- (DI) DITCH INLET PROTECTION
- (SF) TEMPORARY SILT FENCING

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER _____ DATE

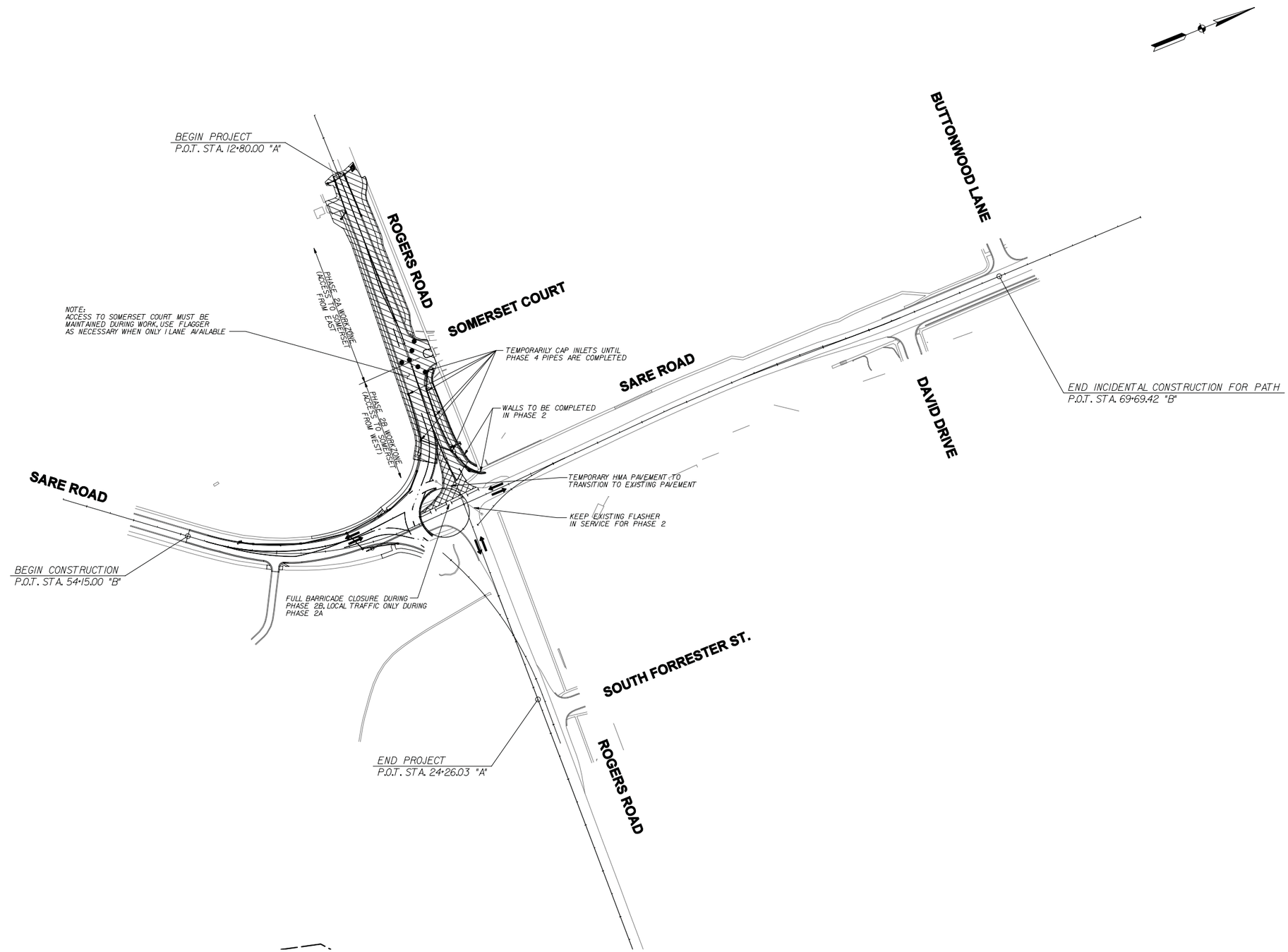
DESIGNED: BR DRAWN: SI

CHECKED: X CHECKED: BR

INDIANA DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC DETOUR ROUTE - PHASE 2

HORIZONAL SCALE	BRIDGE FILE
1" = 600'-0"	N/A
VERTICAL SCALE	DESIGNATION
	0900213
SURVEY BOOK	SHEETS
	8 of 35
CONTRACT	PROJECT
	0900213



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MAINTENANCE OF TRAFFIC AND EROSION CONTROL LEGEND

- INDOT STANDARD DRUM WITH STEADY BURN LIGHTS
- FLASHING ARROW SIGN
- DETOUR ROUTE MARKER ASSEMBLY (LETTER DENOTES TYPE)
- BARRICADE (TYPE III)
- CONSTRUCTION SIGNS (SHAPE PER MUTCD)
- TRAFFIC FLOW DIRECTION
- ROAD CLOSURE SIGN ASSEMBLY
- (CI) INLET PROTECTION, CURB
- (DI) DITCH INLET PROTECTION
- (SF) TEMPORARY SILT FENCING
- PERMANENT PAVEMENT REQ'D.
- TEMPORARY PAVEMENT REQ'D.

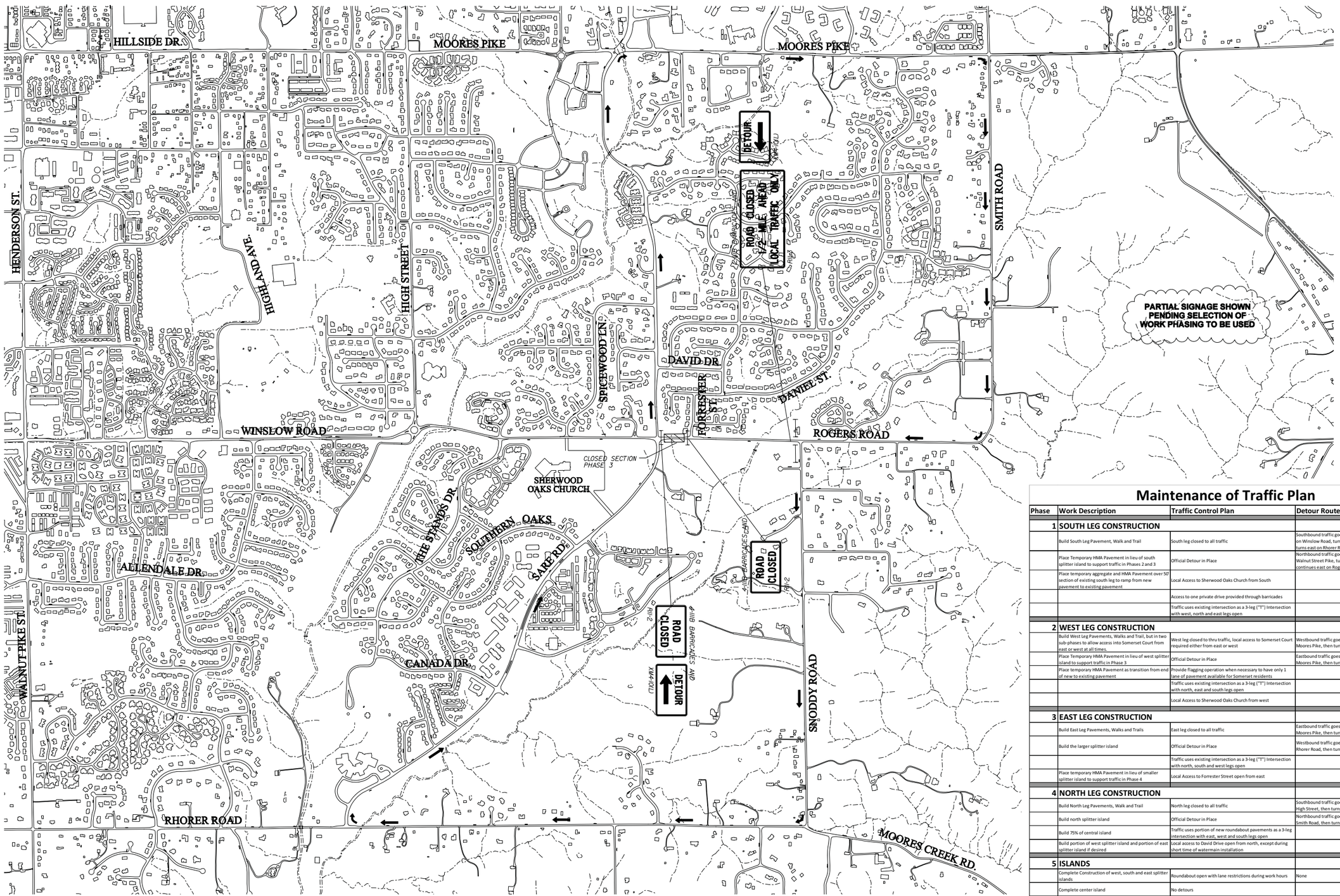
RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER _____ DATE

DESIGNED: BR | DRAWN: SI
CHECKED: X | CHECKED: BR

INDIANA DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC PHASE 2 - WEST LEG

HORIZONAL SCALE	BRIDGE FILE
1" = 100'-0"	N/A
VERTICAL SCALE	DESIGNATION
	0900213
SURVEY BOOK	SHEETS
	9 of 35
CONTRACT	PROJECT
	0900213



Maintenance of Traffic Plan

Phase	Work Description	Traffic Control Plan	Detour Route
1	**SOUTH LEG CONSTRUCTION**		
	Build South Leg Pavement, Walk and Trail	South leg closed to all traffic	Southbound traffic goes west on Rogers Street, continues west on Winslow Road, turns south on Walnut Street Pike, then turns east on Rhorer Road to Sare Road.
	Place Temporary HMA Pavement in lieu of south splitter island to support traffic in Phases 2 and 3	Official Detour in Place	Northbound traffic goes west on Rhorer Road, turns north on Walnut Street Pike, turns east on Winslow Road then continues east on Rogers Road to Sare Road
	Place temporary aggregate and HMA Pavement over 50' section of existing south leg to ramp from new pavement to existing pavement	Local Access to Sherwood Oaks Church from South	
		Access to one private drive provided through barricades	
		Traffic uses existing intersection as a 3-leg ("T") Intersection with west, north and east legs open	
2	**WEST LEG CONSTRUCTION**		
	Build West Leg Pavements, Walks and Trail, but in two sub-phases to allow access into Somerset Court from east or west at all times.	West leg closed to thru traffic, local access to Somerset Court required either from east or west	Westbound traffic goes north on Sare Road, turns west on Moores Pike, then turns south on High Street to Rogers Road
	Place Temporary HMA Pavement in lieu of west splitter island to support traffic in Phase 3	Official Detour in Place	Eastbound traffic goes north on High Street, turns east of Moores Pike, then turns south on Sare Road to Rogers Road
	Place temporary HMA Pavement as transition from end of new to existing pavement	Provide flagging operation when necessary to have only 1 lane of pavement available for Somerset residents	
		Traffic uses existing intersection as a 3-leg ("T") Intersection with north, east and south legs open	
		Local Access to Sherwood Oaks Church from west	
3	**EAST LEG CONSTRUCTION**		
	Build East Leg Pavements, Walks and Trails	East leg closed to all traffic	Eastbound traffic goes north on Sare Road, turns east on Moores Pike, then turns south on Smith Road to Rogers Road
	Build the larger splitter island	Official Detour in Place	Westbound traffic goes south on Snoddy Road, turns west on Rhorer Road, then turns north on Sare Road to Rogers Road
		Traffic uses existing intersection as a 3-leg ("T") Intersection with north, south and west legs open	
	Place temporary HMA Pavement in lieu of smaller splitter island to support traffic in Phase 4	Local Access to Forrester Street open from east	
4	**NORTH LEG CONSTRUCTION**		
	Build North Leg Pavements, Walk and Trail	North leg closed to all traffic	Southbound traffic goes west on Moores Pike, turns south on High Street, then turns east on Rogers Road to Sare Road
	Build north splitter island	Official Detour in Place	Northbound traffic goes east on Rogers Road, turns north on Smith Road, then turns west on Moores Pike to Sare Road
	Build 75% of central island	Traffic uses portion of new roundabout pavements as a 3-leg intersection with east, west and south legs open	
	Build portion of west splitter island and portion of east splitter island if desired	Local access to David Drive open from north, except during short time of watermain installation	
5	**ISLANDS**		
	Complete Construction of west, south and east splitter islands	Roundabout open with lane restrictions during work hours	None
	Complete center island	No detours	
	Complete permanent markings		

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MAINTENANCE OF TRAFFIC AND EROSION CONTROL LEGEND

- INDOT STANDARD DRUM WITH STEADY BURN LIGHTS
- FLASHING ARROW SIGN
- DETOUR ROUTE MARKER ASSEMBLY (LETTER DENOTES TYPE)
- BARRICADE (TYPE III)
- CONSTRUCTION SIGNS (SHAPE PER MUTCD)
- TRAFFIC FLOW DIRECTION
- ROAD CLOSURE SIGN ASSEMBLY
- CI INLET PROTECTION,CURB
- DI DITCH INLET PROTECTION
- SF TEMPORARY SILT FENCING

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

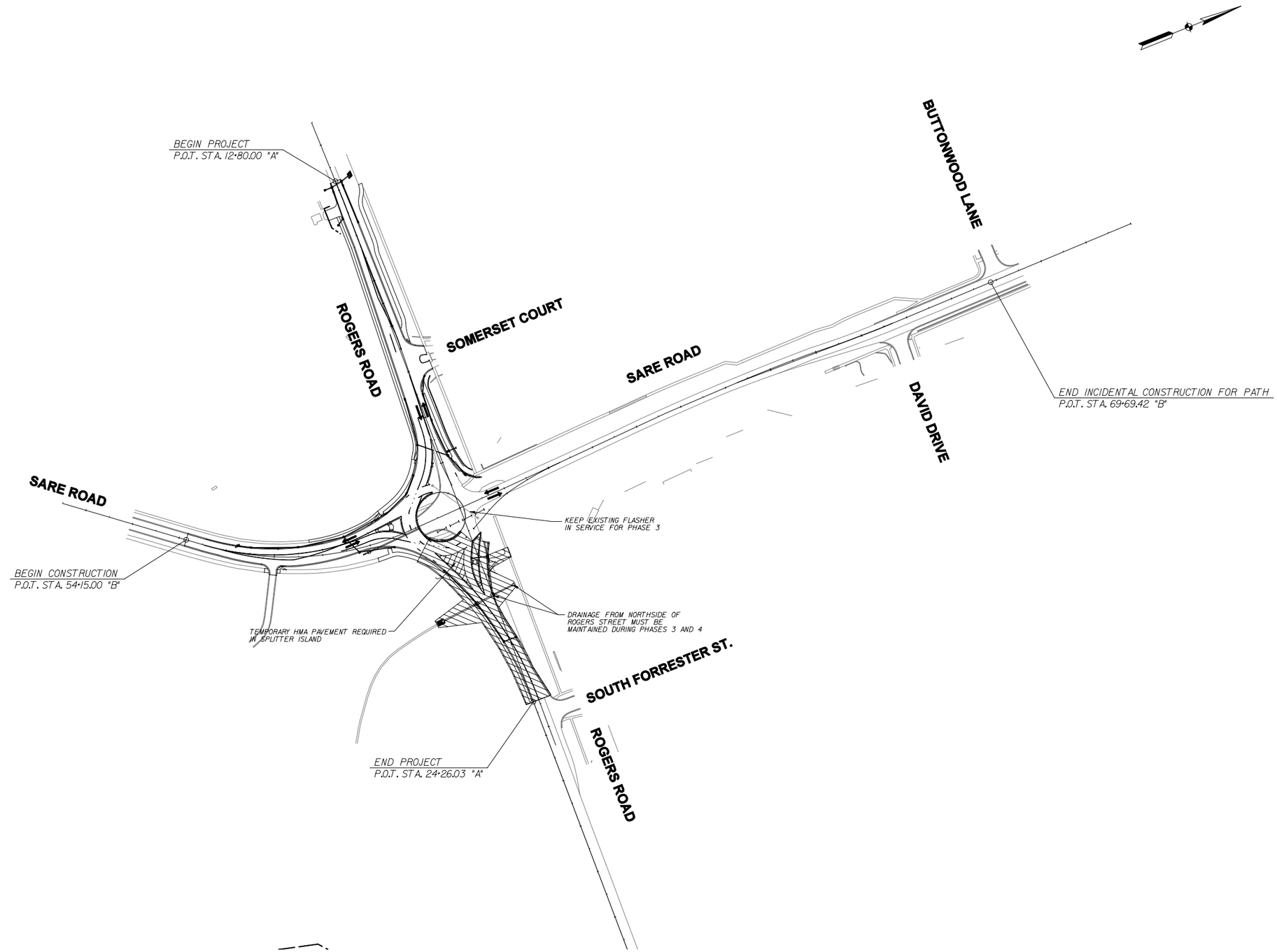
DESIGNED: BR DRAWN: SI

CHECKED: X CHECKED: BR

INDIANA DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC DETOUR ROUTE - PHASE 3

HORIZONAL SCALE	BRIDGE FILE
1" = 600'-0"	N/A
VERTICAL SCALE	DESIGNATION
	0900213
SURVEY BOOK	SHEETS
	10 of 35
CONTRACT	PROJECT
	0900213



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MAINTENANCE OF TRAFFIC AND EROSION CONTROL LEGEND

- INDOT STANDARD DRUM WITH STEADY BURN LIGHTS
- FLASHING ARROW SIGN
- DETOUR ROUTE MARKER ASSEMBLY (LETTER DENOTES TYPE)
- BARRICADE (TYPE III)
- CONSTRUCTION SIGNS (SHAPE PER MUTCD)
- TRAFFIC FLOW DIRECTION
- ROAD CLOSURE SIGN ASSEMBLY
- (CI) INLET PROTECTION,CURB
- (DI) DITCH INLET PROTECTION
- (SF) TEMPORARY SILT FENCING
- PERMANENT PAVEMENT REQ'D.
- TEMPORARY PAVEMENT REQ'D.

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

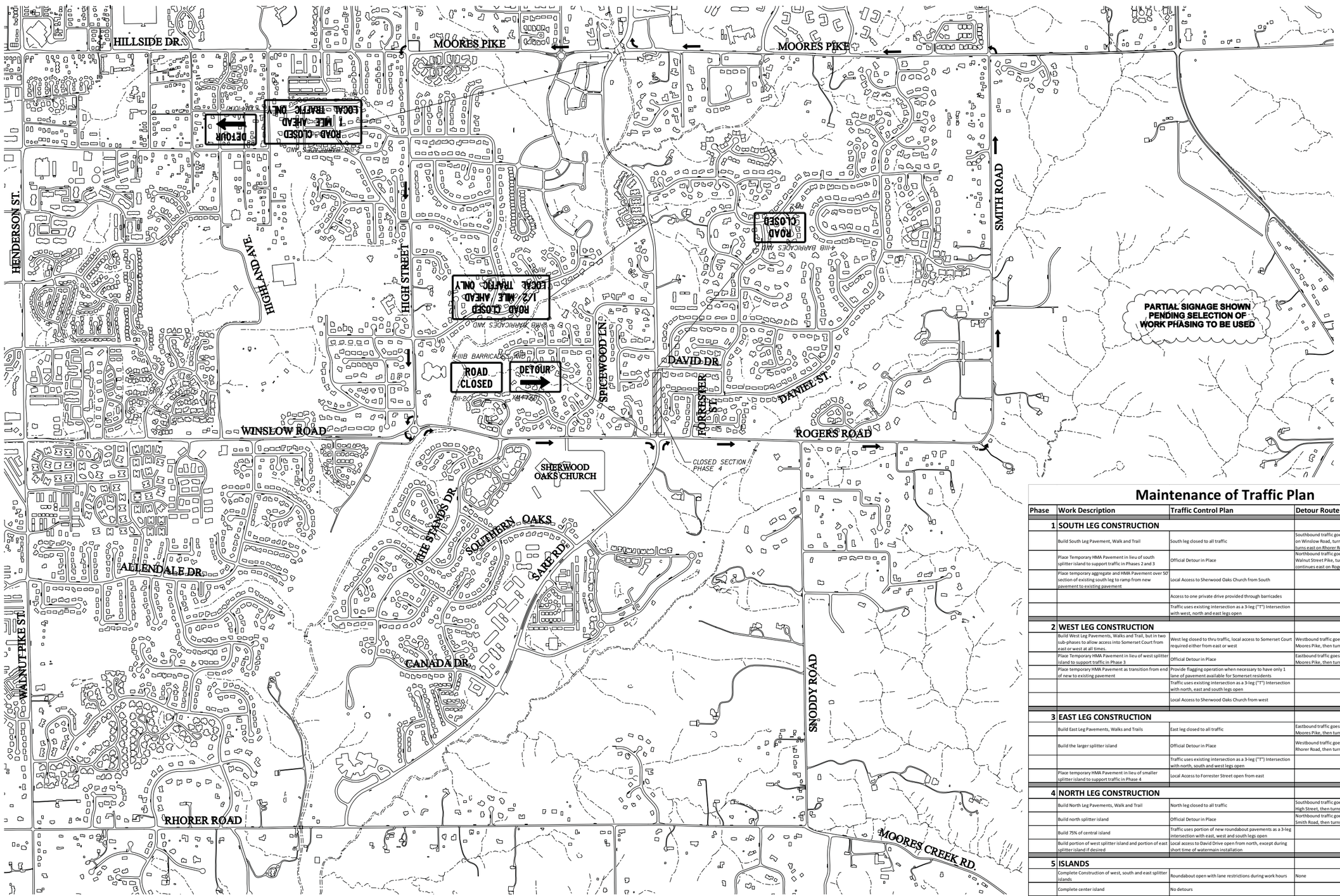
DESIGNED: BR DRAWN: SI

CHECKED: X CHECKED: BR

INDIANA DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC PHASE 3 - EAST LEG

HORIZONAL SCALE	BRIDGE FILE
1" = 100'-0"	N/A
VERTICAL SCALE	DESIGNATION
	0900213
SURVEY BOOK	SHEETS
	11 of 35
CONTRACT	PROJECT
	0900213



Maintenance of Traffic Plan

Phase	Work Description	Traffic Control Plan	Detour Route
1	**SOUTH LEG CONSTRUCTION**		
	Build South Leg Pavement, Walk and Trail	South leg closed to all traffic	Southbound traffic goes west on Rogers Street, continues west on Winslow Road, turns south on Walnut Street Pike, then turns east on Rhorer Road to Sare Road.
	Place Temporary HMA Pavement in lieu of south splitter island to support traffic in Phases 2 and 3	Official Detour in Place	Northbound traffic goes west on Rhorer Road, turns north on Walnut Street Pike, turns east on Winslow Road then continues east on Rogers Road to Sare Road
	Place temporary aggregate and HMA Pavement over 50' section of existing south leg to ramp from new pavement to existing pavement	Local Access to Sherwood Oaks Church from South	
		Access to one private drive provided through barricades	
		Traffic uses existing intersection as a 3-leg ("T") Intersection with west, north and east legs open	
2	**WEST LEG CONSTRUCTION**		
	Build West Leg Pavements, Walks and Trail, but in two sub-phases to allow access into Somerset Court from east or west at all times.	West leg closed to thru traffic, local access to Somerset Court required either from east or west	Westbound traffic goes north on Sare Road, turns west on Moores Pike, then turns south on High Street to Rogers Road
	Place Temporary HMA Pavement in lieu of west splitter island to support traffic in Phase 3	Official Detour in Place	Eastbound traffic goes north on High Street, turns east of Moores Pike, then turns south on Sare Road to Rogers Road
	Place temporary HMA Pavement as transition from end of new to existing pavement	Provide flagging operation when necessary to have only 1 lane of pavement available for Somerset residents	
		Traffic uses existing intersection as a 3-leg ("T") Intersection with north, east and south legs open	
		Local Access to Sherwood Oaks Church from west	
3	**EAST LEG CONSTRUCTION**		
	Build East Leg Pavements, Walks and Trails	East leg closed to all traffic	Eastbound traffic goes north on Sare Road, turns east on Moores Pike, then turns south on Smith Road to Rogers Road
	Build the larger splitter island	Official Detour in Place	Westbound traffic goes south on Snoddy Road, turns west on Rhorer Road, then turns north on Sare Road to Rogers Road
		Traffic uses existing intersection as a 3-leg ("T") Intersection with north, south and west legs open	
	Place temporary HMA Pavement in lieu of smaller splitter island to support traffic in Phase 4	Local Access to Forrester Street open from east	
4	**NORTH LEG CONSTRUCTION**		
	Build North Leg Pavements, Walk and Trail	North leg closed to all traffic	Southbound traffic goes west on Moores Pike, turns south on High Street, then turns east on Rogers Road to Sare Road
	Build north splitter island	Official Detour in Place	Northbound traffic goes east on Rogers Road, turns north on Smith Road, then turns west on Moores Pike to Sare Road
	Build 75% of central island	Traffic uses portion of new roundabout pavements as a 3-leg intersection with east, west and south legs open	
	Build portion of west splitter island and portion of east splitter island if desired	Local access to David Drive open from north, except during short time of watermain installation	
5	**ISLANDS**		
	Complete Construction of west, south and east splitter islands	Roundabout open with lane restrictions during work hours	None
	Complete center island	No detours	
	Complete permanent markings		

MAINTENANCE OF TRAFFIC AND EROSION CONTROL LEGEND

- INDOT STANDARD DRUM WITH STEADY BURN LIGHTS
- FLASHING ARROW SIGN
- DETOUR ROUTE MARKER ASSEMBLY (LETTER DENOTES TYPE)
- BARRICADE (TYPE III)
- CONSTRUCTION SIGNS (SHAPE PER MUTCD)
- TRAFFIC FLOW DIRECTION
- ROAD CLOSURE SIGN ASSEMBLY
- (CI) INLET PROTECTION,CURB
- (DI) DITCH INLET PROTECTION
- (SF) TEMPORARY SILT FENCING

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: BR | DRAWN: SI

CHECKED: X | CHECKED: BR

INDIANA DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC DETOUR ROUTE - PHASE 4

HORIZONAL SCALE	BRIDGE FILE
1" = 600'-0"	N/A
VERTICAL SCALE	DESIGNATION
	0900213
SURVEY BOOK	SHEETS
	12 of 35
CONTRACT	PROJECT
	0900213

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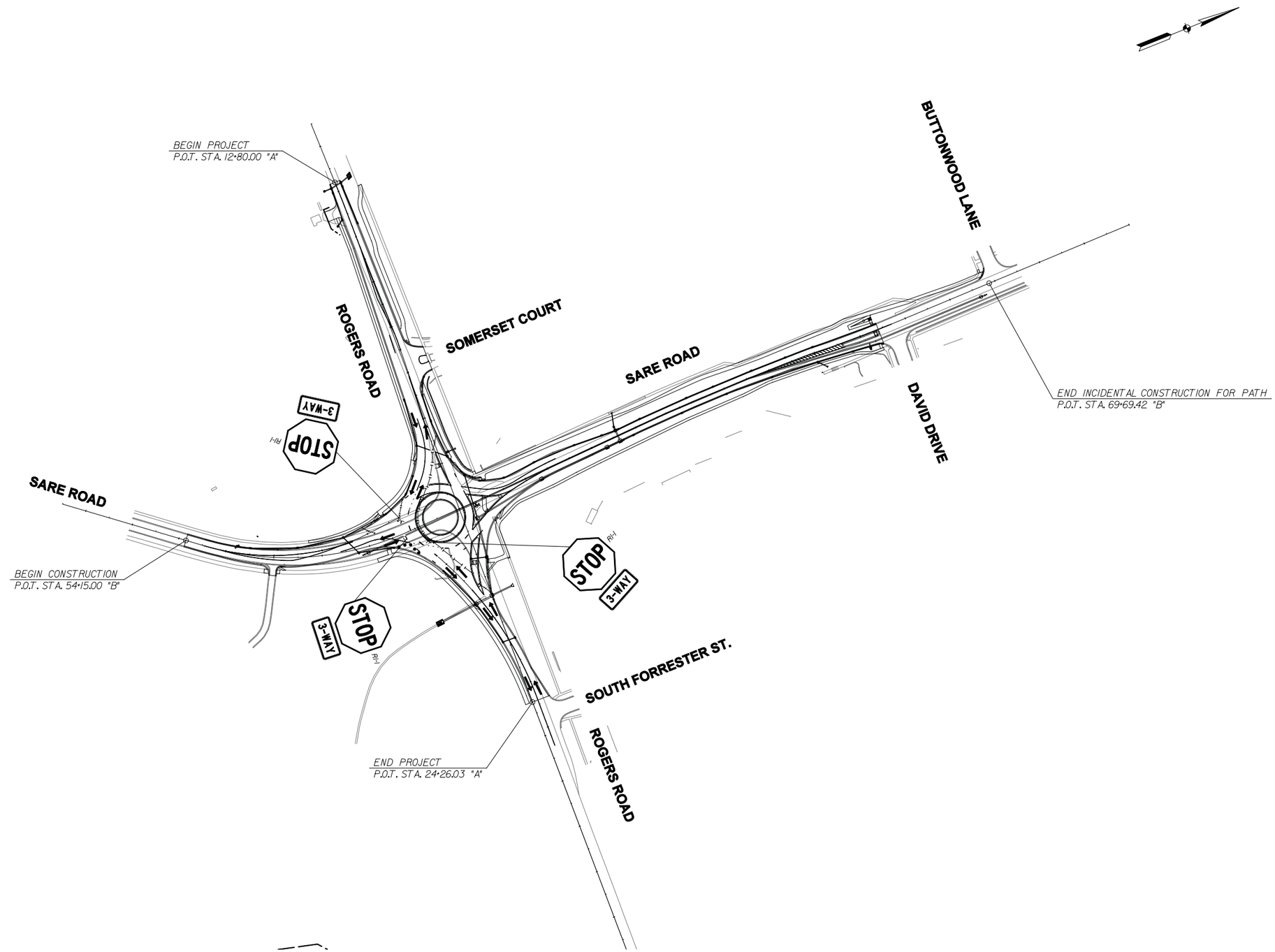
DETOUR-PH4 7/21/2010 4:51:45 AM



MAINTENANCE OF TRAFFIC AND EROSION CONTROL LEGEND

- INDOT STANDARD DRUM WITH STEADY BURN LIGHTS
- FLASHING ARROW SIGN
- DETOUR ROUTE MARKER ASSEMBLY (LETTER DENOTES TYPE)
- BARRICADE (TYPE III)
- CONSTRUCTION SIGNS (SHAPE PER MUTCD)
- TRAFFIC FLOW DIRECTION
- ROAD CLOSURE SIGN ASSEMBLY
- CI INLET PROTECTION, CURB
- DI DITCH INLET PROTECTION
- SF TEMPORARY SILT FENCING
- PERMANENT PAVEMENT REQ'D.
- TEMPORARY PAVEMENT REQ'D.

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER _____ DATE

DESIGNED: BR | DRAWN: SI
CHECKED: X | CHECKED: BR

INDIANA
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC
PHASE 4 - NORTH LEG & CENTER ISLAND

HORIZONAL SCALE	BRIDGE FILE
1" = 100'-0"	N/A
VERTICAL SCALE	DESIGNATION
	0900213
SURVEY BOOK	SHEETS
	13 of 35
CONTRACT	PROJECT
	0900213

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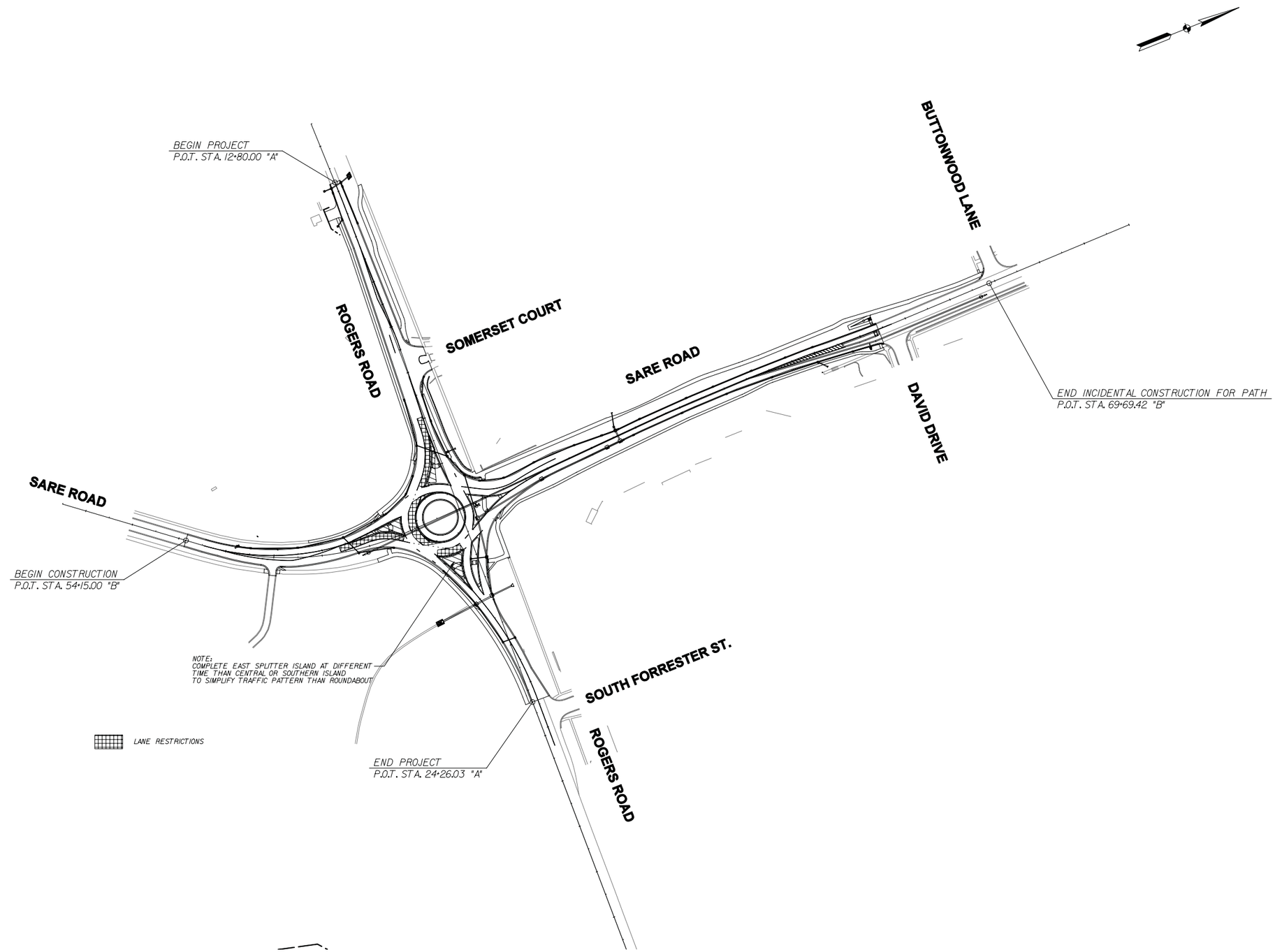
MOT-PH04
7/21/2010



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MOT-PH05
7/21/2010 4:52:12 AM

MAINTENANCE OF TRAFFIC AND EROSION CONTROL LEGEND

- INDOT STANDARD DRUM WITH STEADY BURN LIGHTS
- FLASHING ARROW SIGN
- DETOUR ROUTE MARKER ASSEMBLY (LETTER DENOTES TYPE)
- BARRICADE (TYPE III)
- CONSTRUCTION SIGNS (SHAPE PER MUTCD)
- TRAFFIC FLOW DIRECTION
- ROAD CLOSURE SIGN ASSEMBLY
- (CI) INLET PROTECTION,CURB
- (DI) DITCH INLET PROTECTION
- (SF) TEMPORARY SILT FENCING
- PERMANENT PAVEMENT REQ'D.
- TEMPORARY PAVEMENT REQ'D.

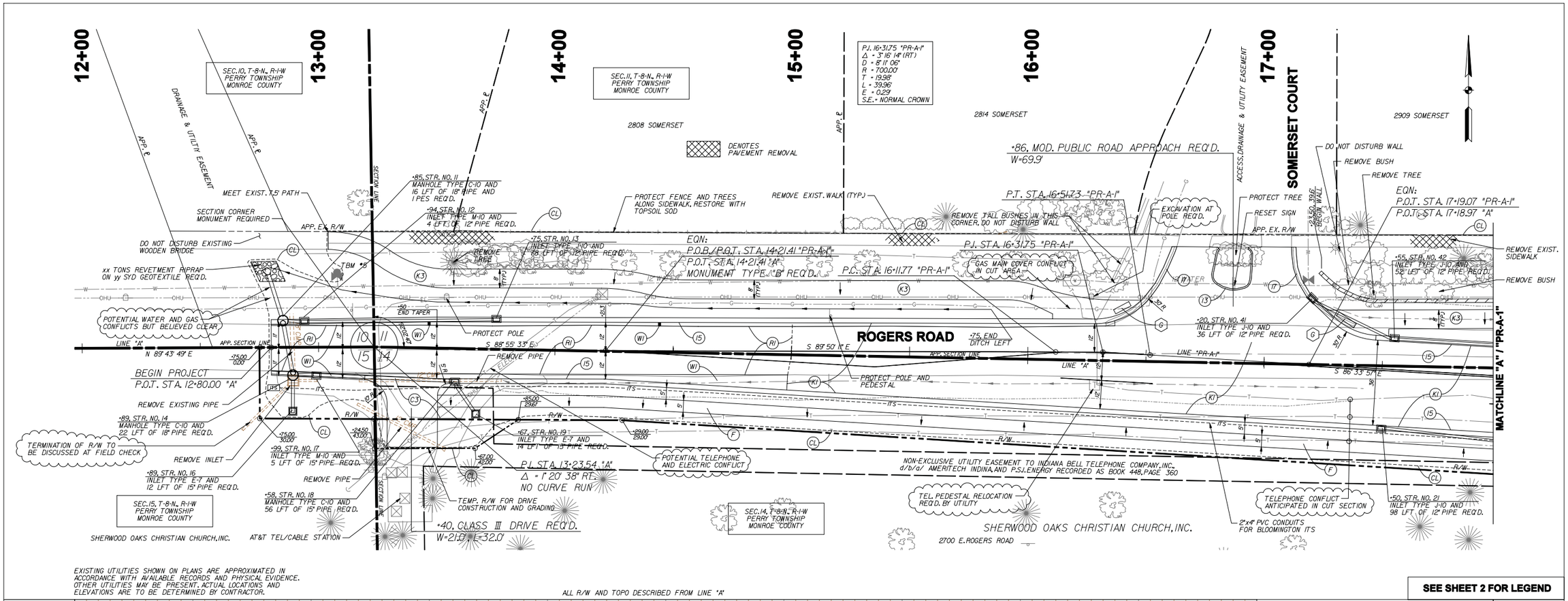
RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER _____ DATE

DESIGNED: BR	DRAWN: SI
CHECKED: X	CHECKED: BR

INDIANA DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC PHASE 5 - ISLANDS AND FINAL TASKS

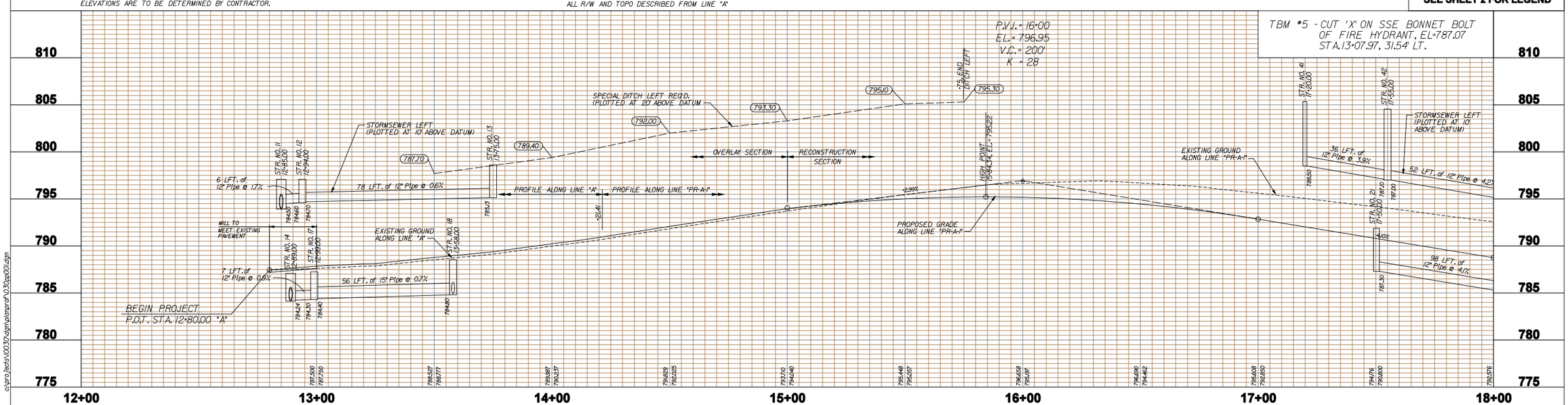
HORIZONAL SCALE	BRIDGE FILE
1" = 100'-0"	N/A
VERTICAL SCALE	DESIGNATION
	0900213
SURVEY BOOK	SHEETS
	14 of 35
CONTRACT	PROJECT
	0900213



EXISTING UTILITIES SHOWN ON PLANS ARE APPROXIMATED IN ACCORDANCE WITH AVAILABLE RECORDS AND PHYSICAL EVIDENCE. OTHER UTILITIES MAY BE PRESENT. ACTUAL LOCATIONS AND ELEVATIONS ARE TO BE DETERMINED BY CONTRACTOR.

ALL R/W AND TOPO DESCRIBED FROM LINE "A"

SEE SHEET 2 FOR LEGEND



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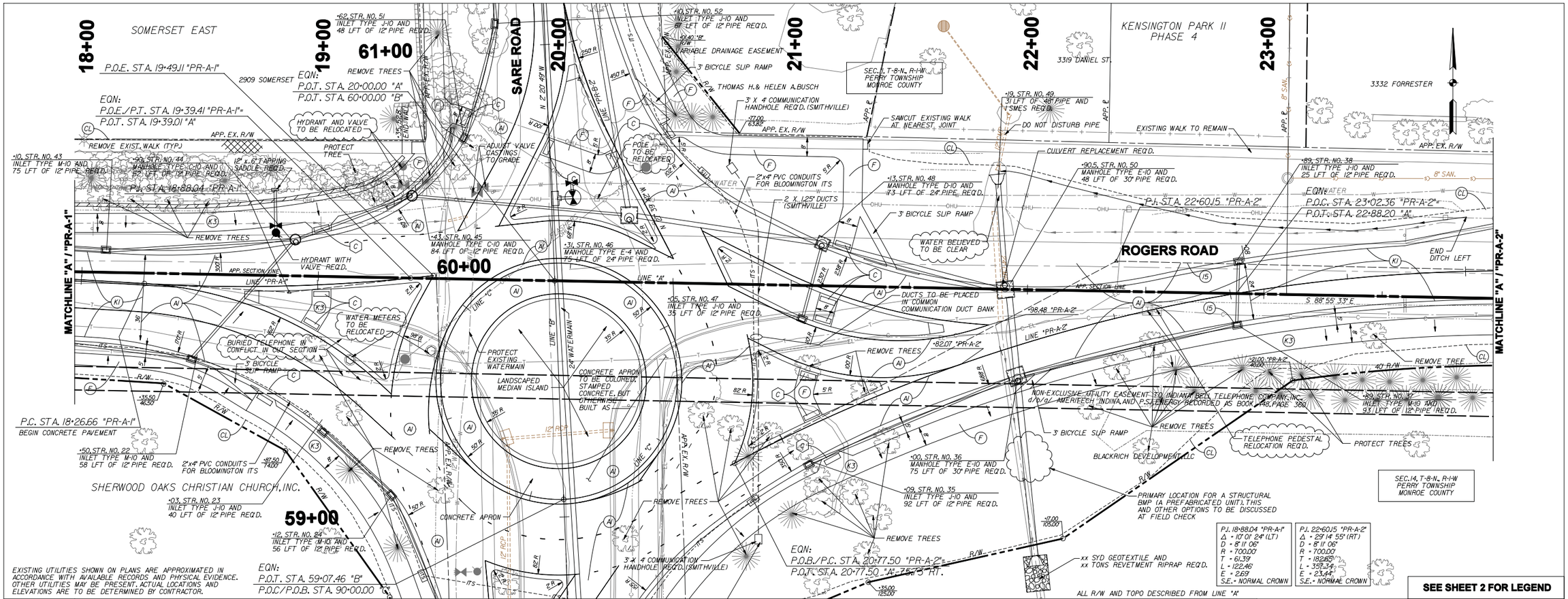
pp01 7/21/2010 4:52:39 AM

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE	INDIANA DEPARTMENT OF TRANSPORTATION	HORIZONAL SCALE 1" = 20'-0"	BRIDGE FILE N/A
		VERTICAL SCALE 1" = 5'-0"	DESIGNATION 0900213
DESIGNED: BR / DRAWN: SI	PLAN AND PROFILE LINES "A" / "PR-A-1"	SURVEY BOOK	SHEETS 15 of 35
CHECKED: X / CHECKED: BR		CONTRACT	PROJECT 0900213



RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE		INDIANA DEPARTMENT OF TRANSPORTATION	HORIZONAL SCALE 1" = 20'-0" / BRIDGE FILE N/A
DESIGNED: BR	DRAWN: SI		VERTICAL SCALE 1" = 5'-0" / DESIGNATION 0900213
CHECKED: X	CHECKED: BR	PLAN AND PROFILE LINES "PR-A-1", "PR-A-2"	SURVEY BOOK / SHEETS 16 of 35
			CONTRACT / PROJECT 0900213

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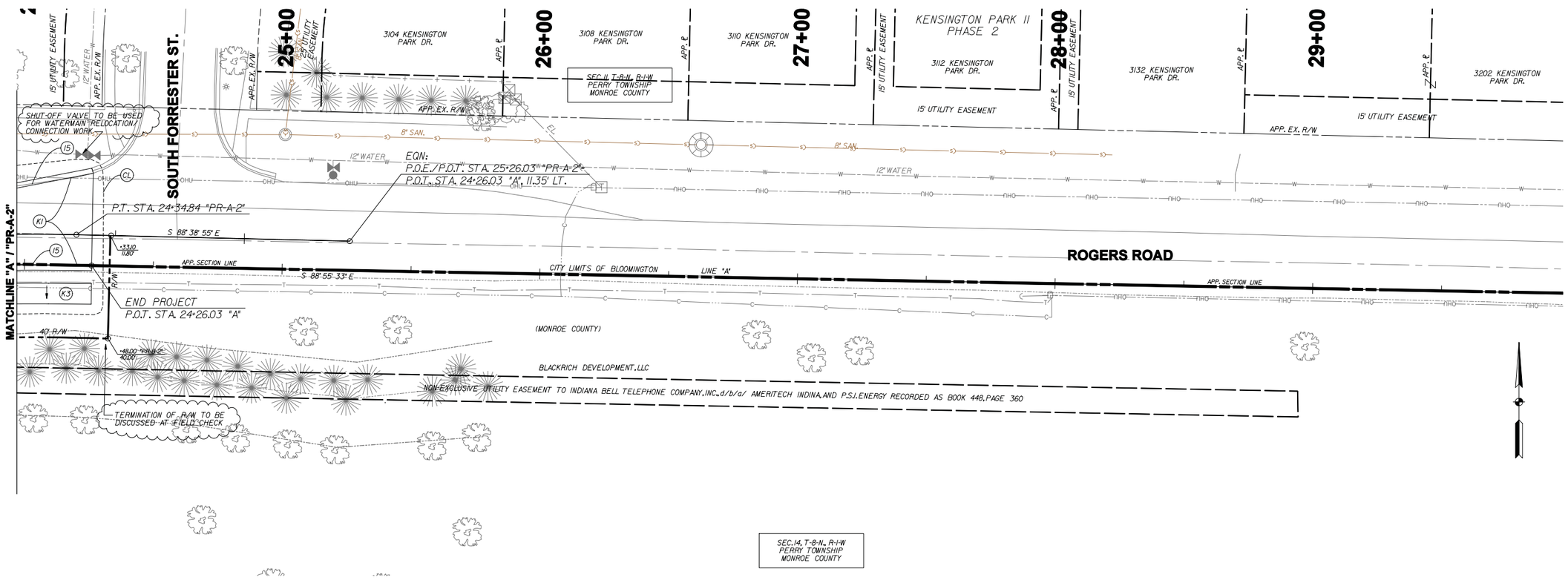
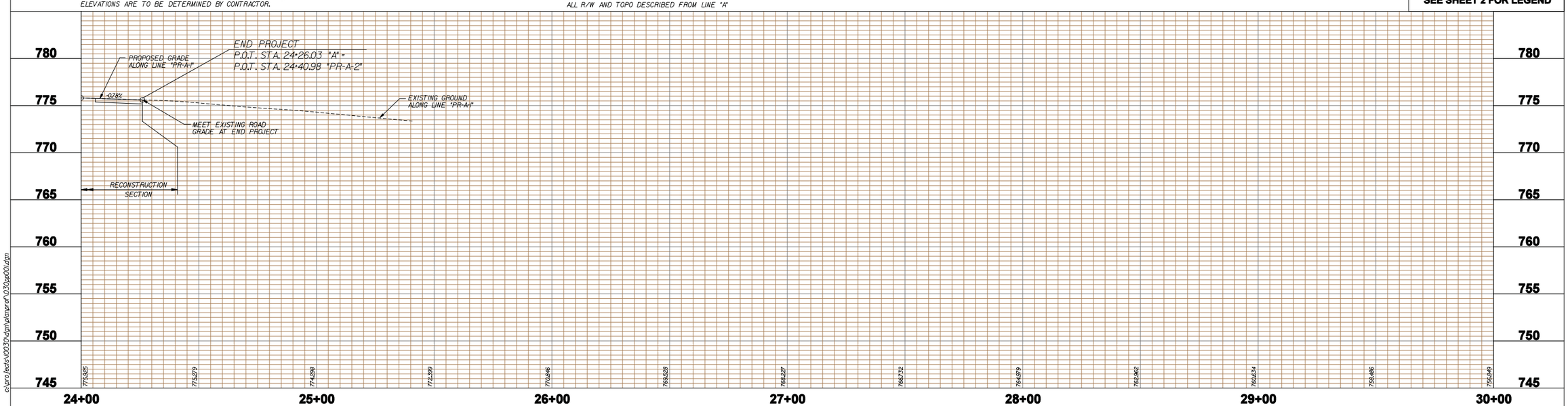
pp02 7/21/2010 4:52:52 AM



EXISTING UTILITIES SHOWN ON PLANS ARE APPROXIMATED IN ACCORDANCE WITH AVAILABLE RECORDS AND PHYSICAL EVIDENCE. OTHER UTILITIES MAY BE PRESENT. ACTUAL LOCATIONS AND ELEVATIONS ARE TO BE DETERMINED BY CONTRACTOR.

ALL R/W AND TOPO DESCRIBED FROM LINE "A"

SEE SHEET 2 FOR LEGEND



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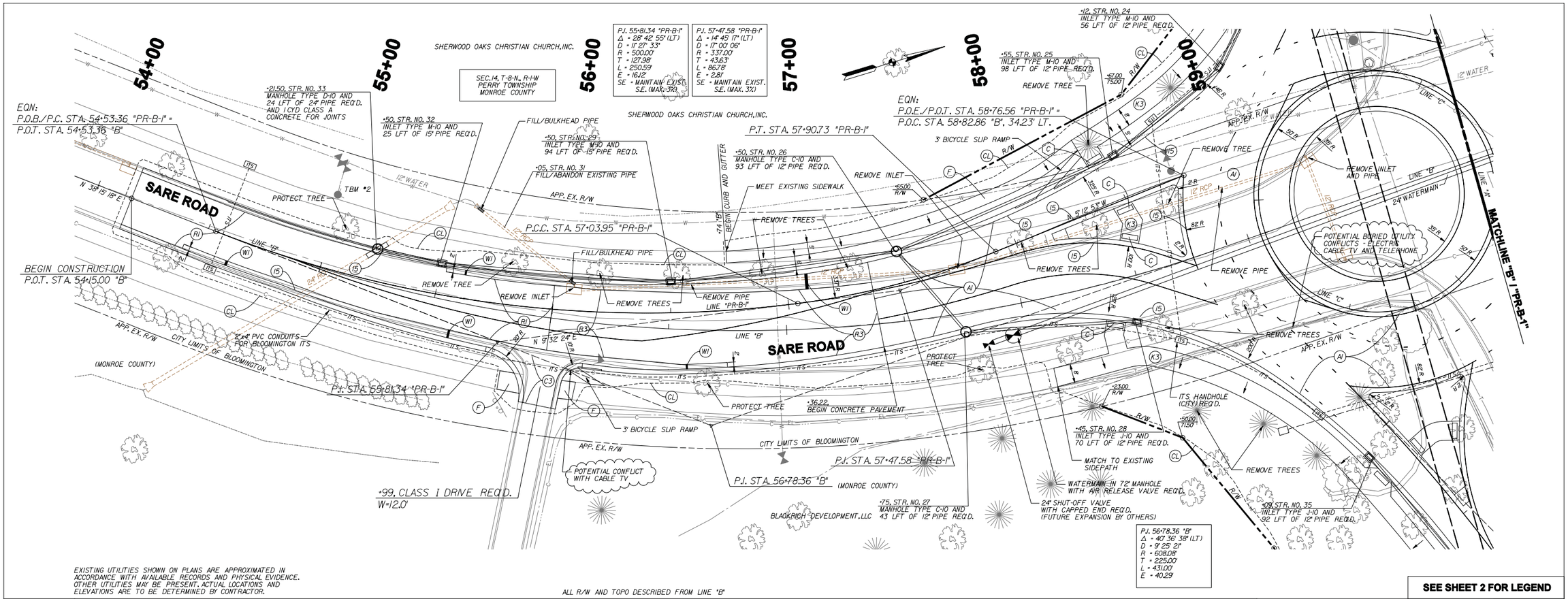
pp03 7/21/2010 4:53:07 AM

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE	
DESIGNED: BR	DRAWN: SI		
CHECKED: X	CHECKED: BR		

INDIANA DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE LINES "PR-A-2" / "A"

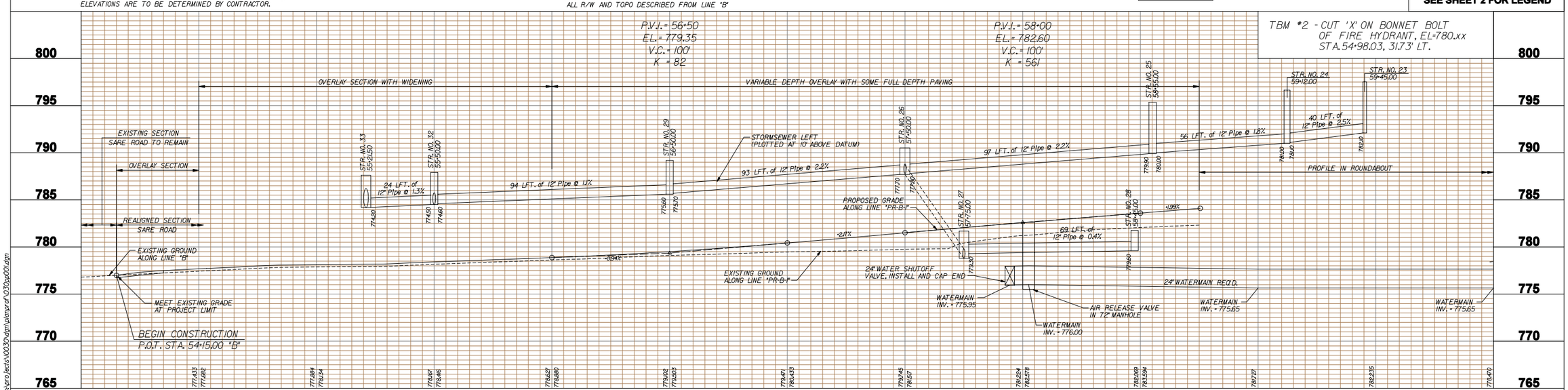
HORIZONAL SCALE	BRIDGE FILE
1" = 20'-0"	N/A
VERTICAL SCALE	DESIGNATION
1" = 5'-0"	0900213
SURVEY BOOK	SHEETS
	17 of 35
CONTRACT	PROJECT
	0900213



EXISTING UTILITIES SHOWN ON PLANS ARE APPROXIMATED IN ACCORDANCE WITH AVAILABLE RECORDS AND PHYSICAL EVIDENCE. OTHER UTILITIES MAY BE PRESENT. ACTUAL LOCATIONS AND ELEVATIONS ARE TO BE DETERMINED BY CONTRACTOR.

ALL R/W AND TOPO DESCRIBED FROM LINE "B"

SEE SHEET 2 FOR LEGEND



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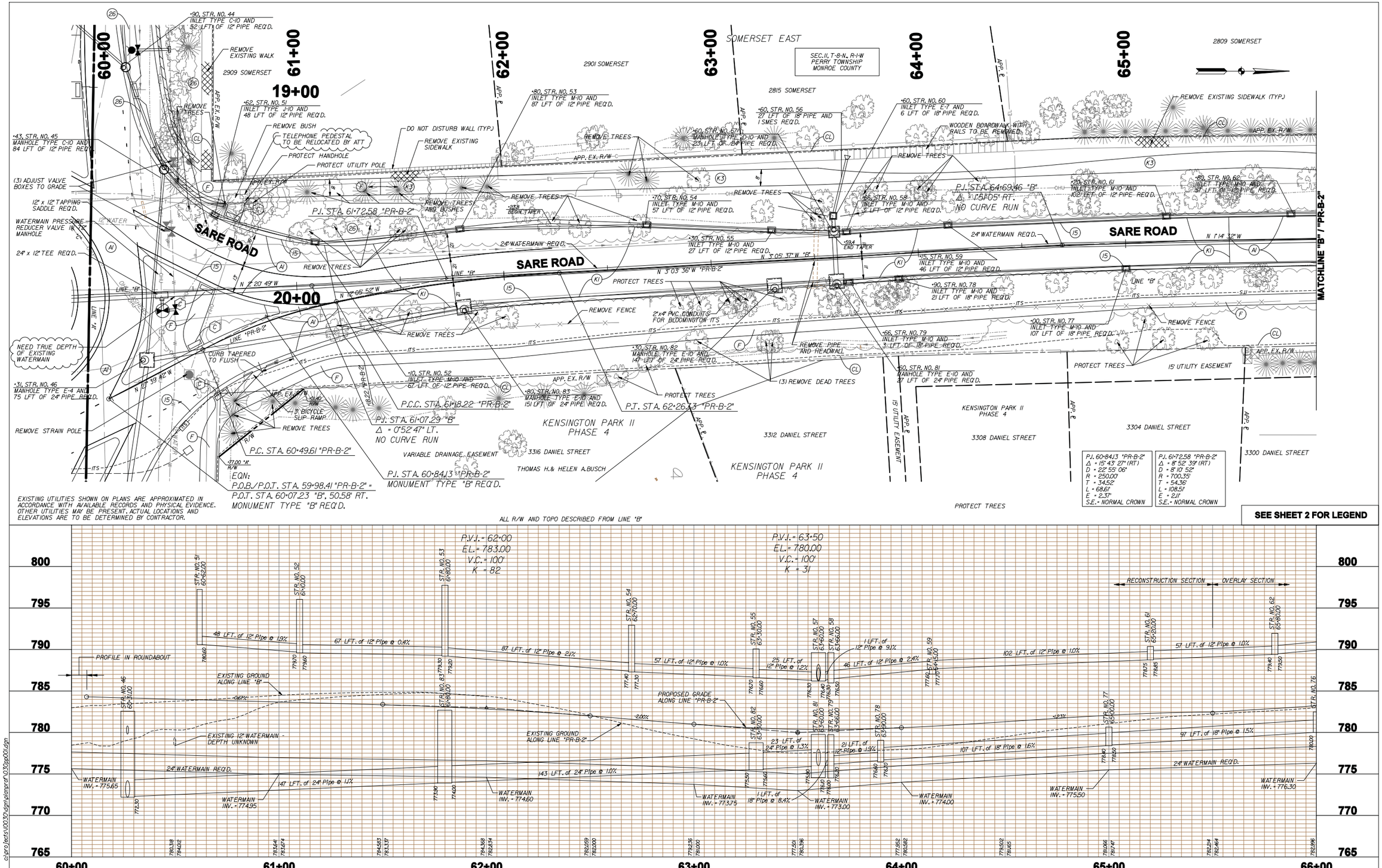
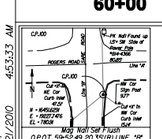
4:53:19 AM

7/21/2010

pp06

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE		INDIANA DEPARTMENT OF TRANSPORTATION	HORIZONAL SCALE 1" = 20'-0" / BRIDGE FILE N/A / VERTICAL SCALE 1" = 5'-0" / DESIGNATION 0900213
DESIGNED: BR	DRAWN: SI	PLAN AND PROFILE LINES "B" / "PR-B-1"	SURVEY BOOK / SHEETS 18 of 35
CHECKED: X	CHECKED: BR		CONTRACT / PROJECT 0900213





RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE	
DESIGNED: BR	DRAWN: SI		
CHECKED: X	CHECKED: BR		

INDIANA DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE LINES "PR-B-2"

HORIZONAL SCALE	BRIDGE FILE
1" = 20'-0"	N/A
VERTICAL SCALE	DESIGNATION
1" = 5'-0"	0900213
SURVEY BOOK	SHEETS
	19 of 35
CONTRACT	PROJECT
	0900213

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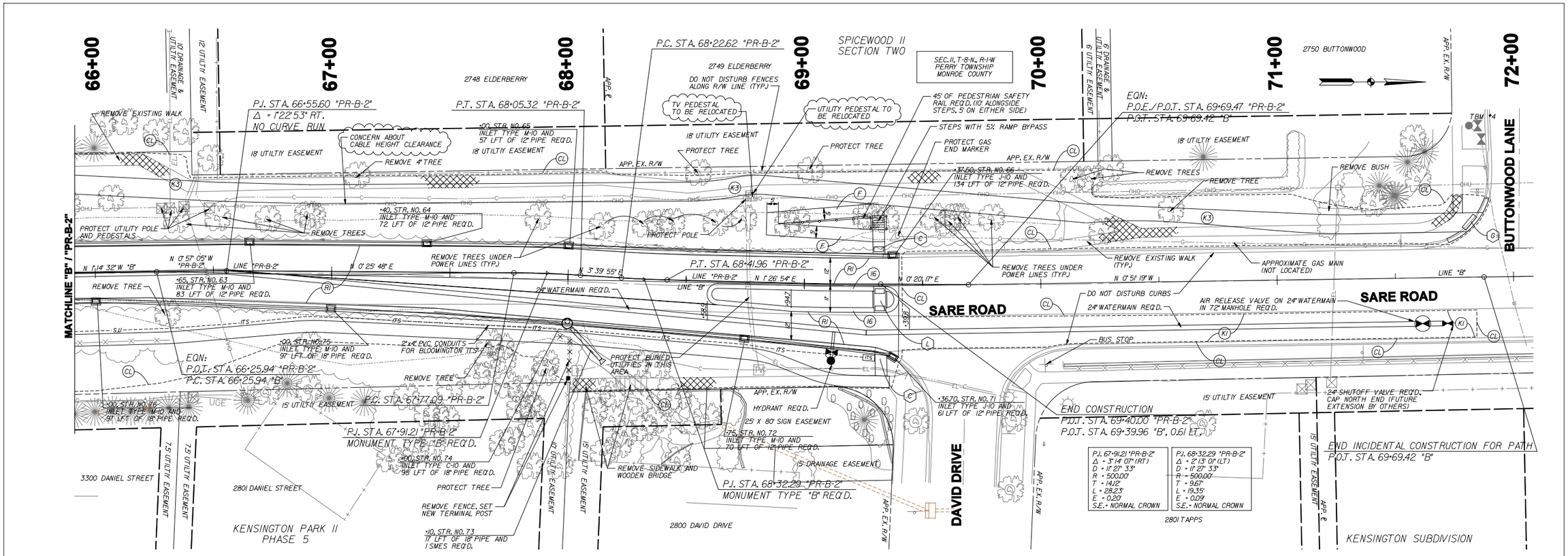
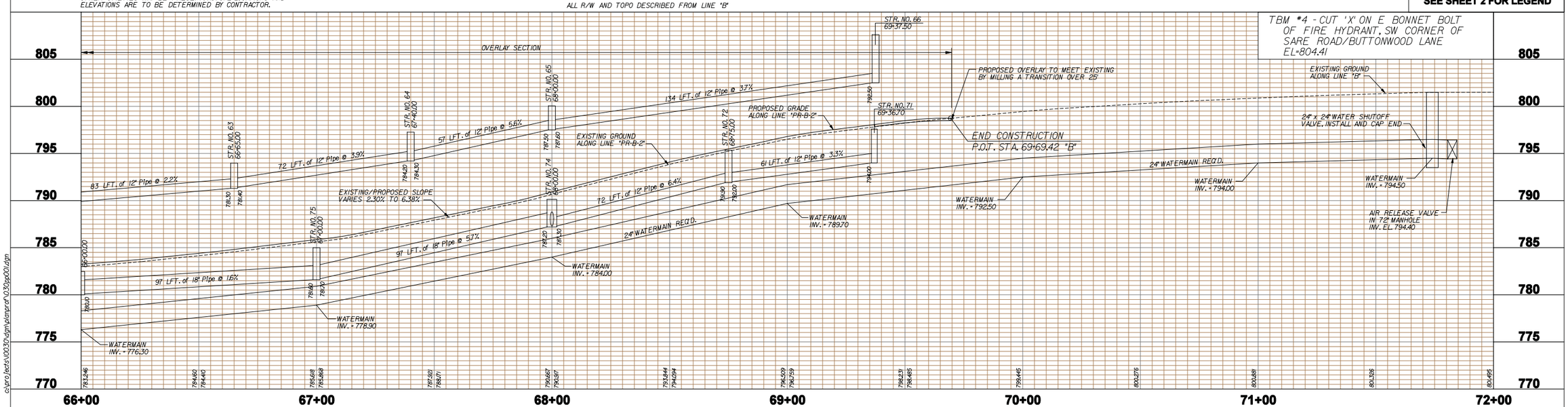
pp07 7/21/2010 4:53:33 AM



SEE SHEET 2 FOR LEGEND



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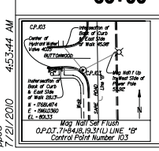
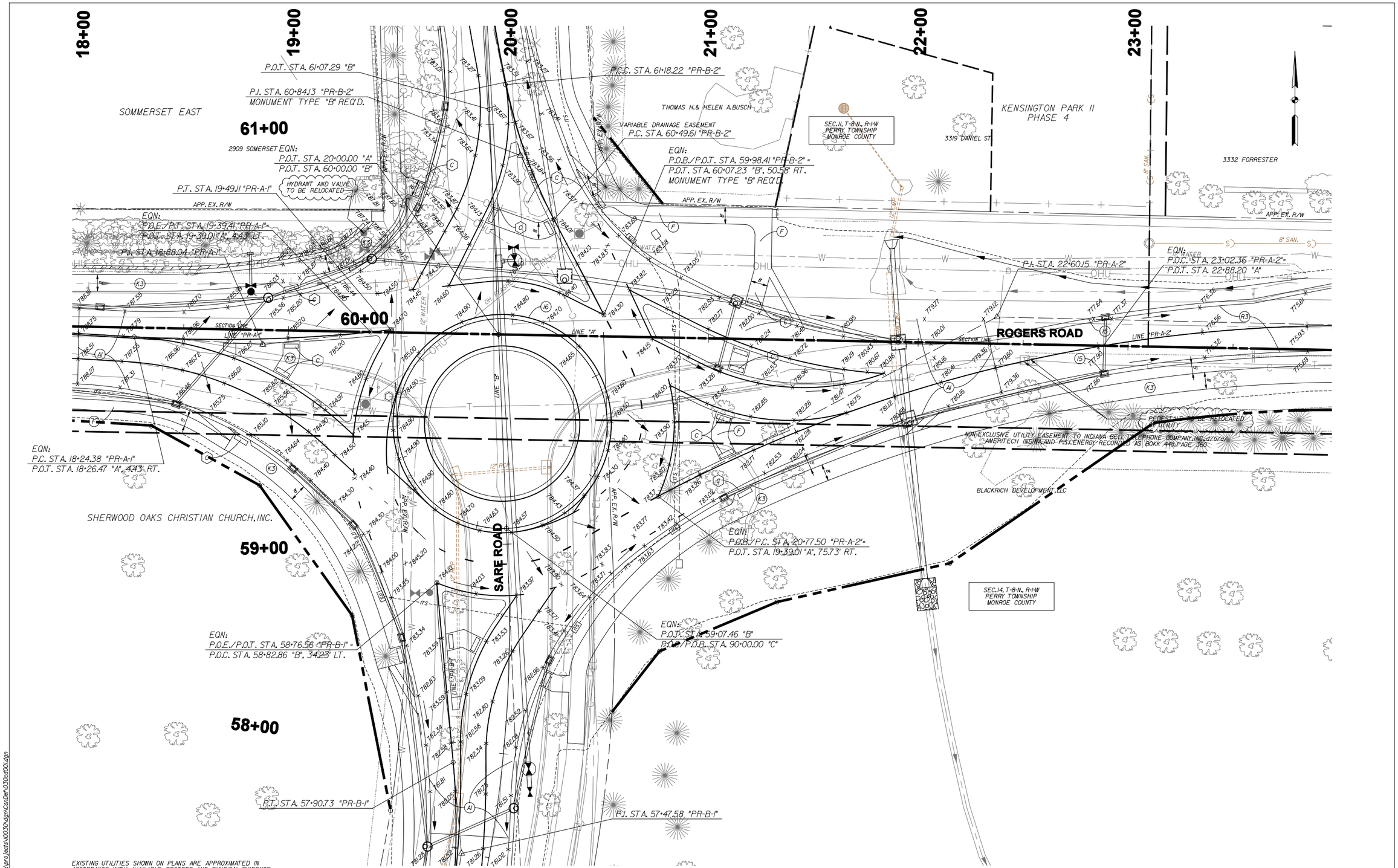


RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE		INDIANA DEPARTMENT OF TRANSPORTATION	HORIZONAL SCALE 1" = 20'-0" / BRIDGE FILE N/A
			VERTICAL SCALE 1" = 5'-0" / DESIGNATION 0900213
DESIGNED: BR	DRAWN: SI	PLAN AND PROFILE LINES "PR-B-2" / "B"	SURVEY BOOK / SHEETS 20 of 35
CHECKED: X	CHECKED: BR		CONTRACT / PROJECT 0900213



EXISTING UTILITIES SHOWN ON PLANS ARE APPROXIMATED IN ACCORDANCE WITH AVAILABLE RECORDS AND PHYSICAL EVIDENCE. OTHER UTILITIES MAY BE PRESENT. ACTUAL LOCATIONS AND ELEVATIONS ARE TO BE DETERMINED BY CONTRACTOR.

ALL R/W AND TOPO DESCRIBED FROM LINE "A"

SEE SHEET 2 FOR LEGEND

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: BR | DRAWN: SI

CHECKED: X | CHECKED: BR

INDIANA DEPARTMENT OF TRANSPORTATION

ROUNDABOUT DETAIL AND GRADING PLAN

HORIZONAL SCALE	BRIDGE FILE
1" = 20'-0"	N/A
VERTICAL SCALE	DESIGNATION
	0900213
SURVEY BOOK	SHEETS
	21 of 35
CONTRACT	PROJECT
	0900213

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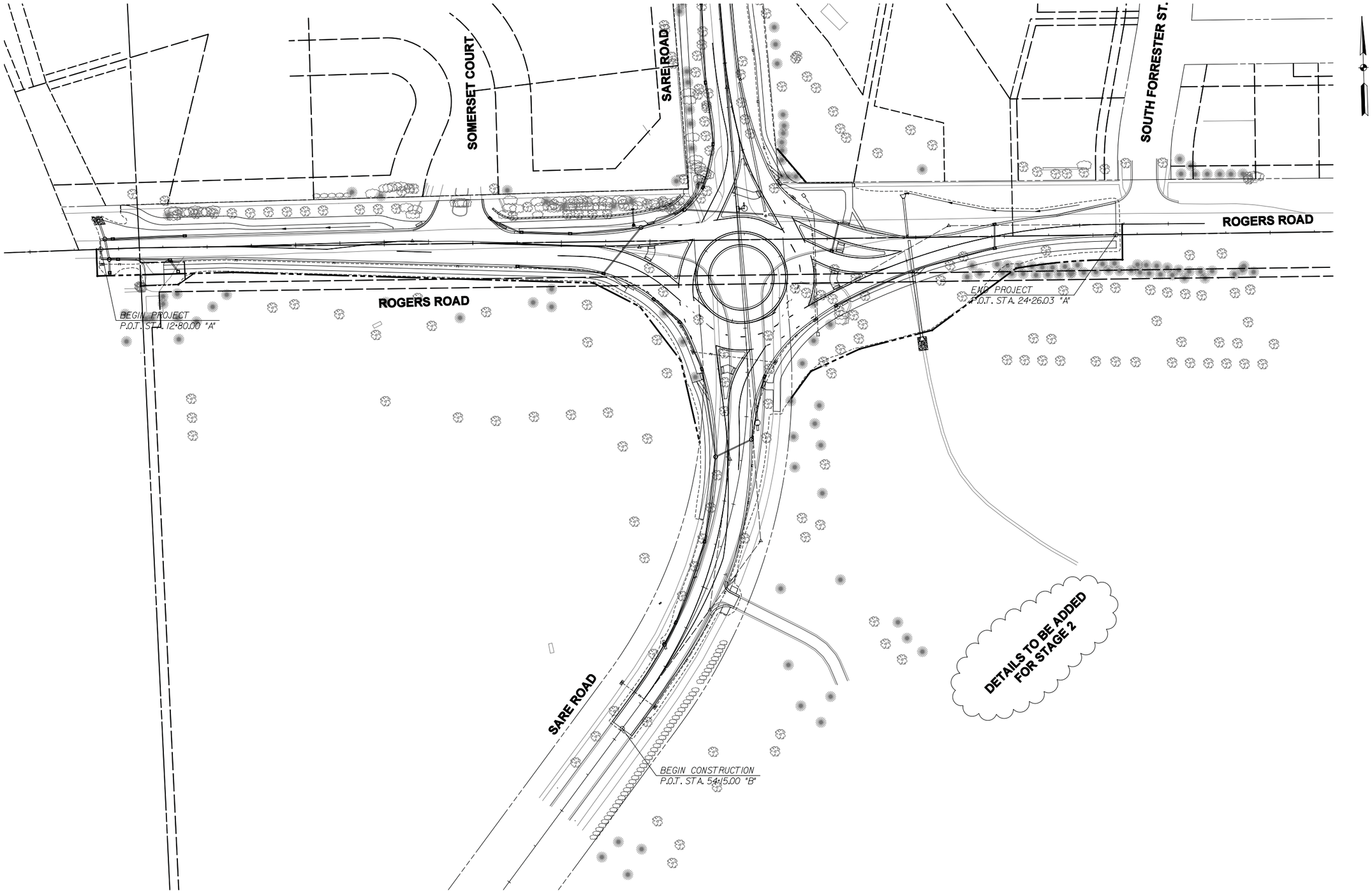
CD01 7/21/2010 4:54:04 AM



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LAND01
7/21/2010 4:54:22 AM

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

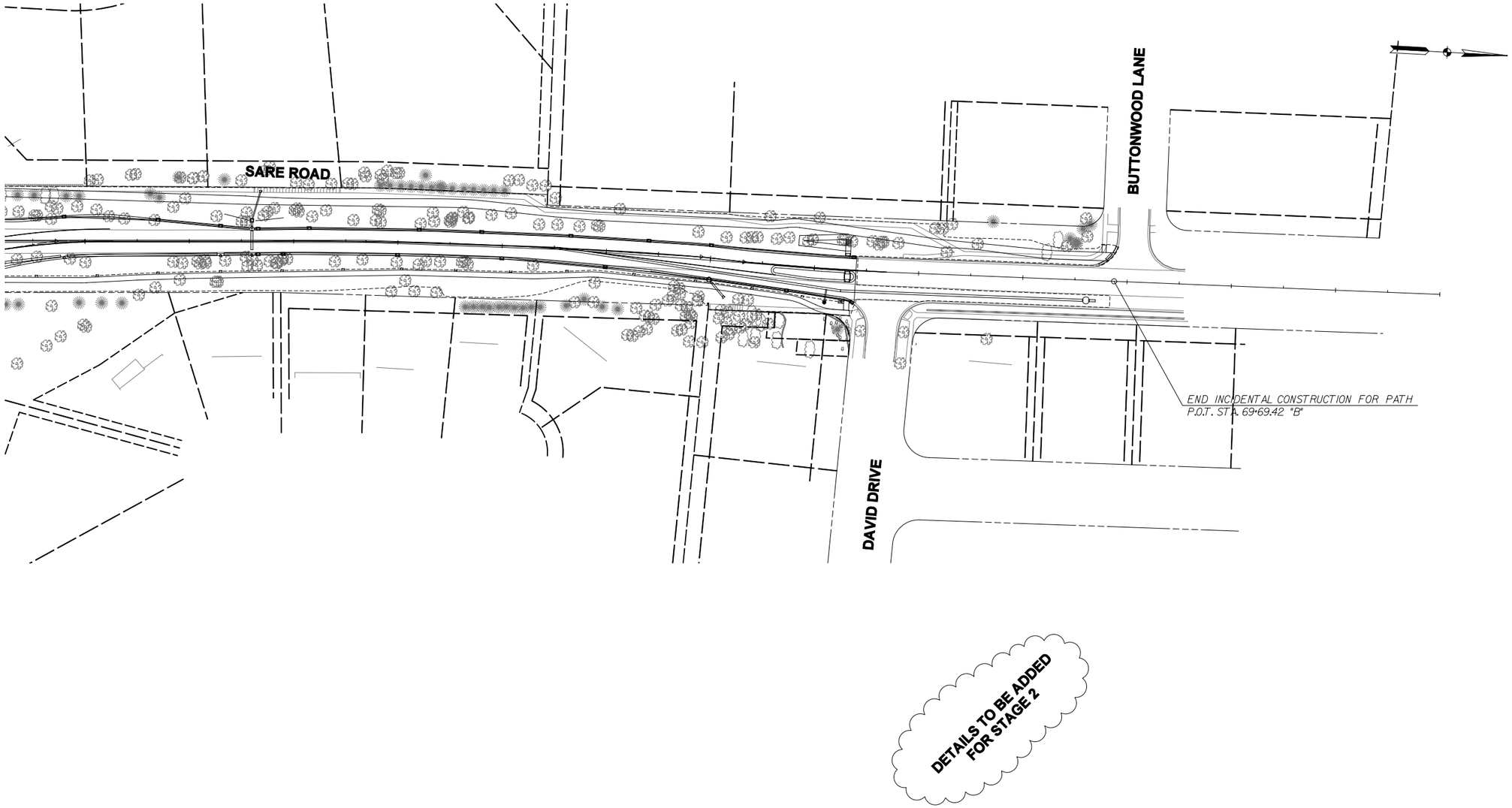
DESIGNED: BR | DRAWN: SI

CHECKED: X | CHECKED: BR

INDIANA
DEPARTMENT OF TRANSPORTATION

LANDSCAPE AND PLANTING PLANS

HORIZONAL SCALE	BRIDGE FILE
1" = 50'-0"	N/A
VERTICAL SCALE	DESIGNATION
	0900213
SURVEY BOOK	SHEETS
	22 of 35
CONTRACT	PROJECT
	0900213



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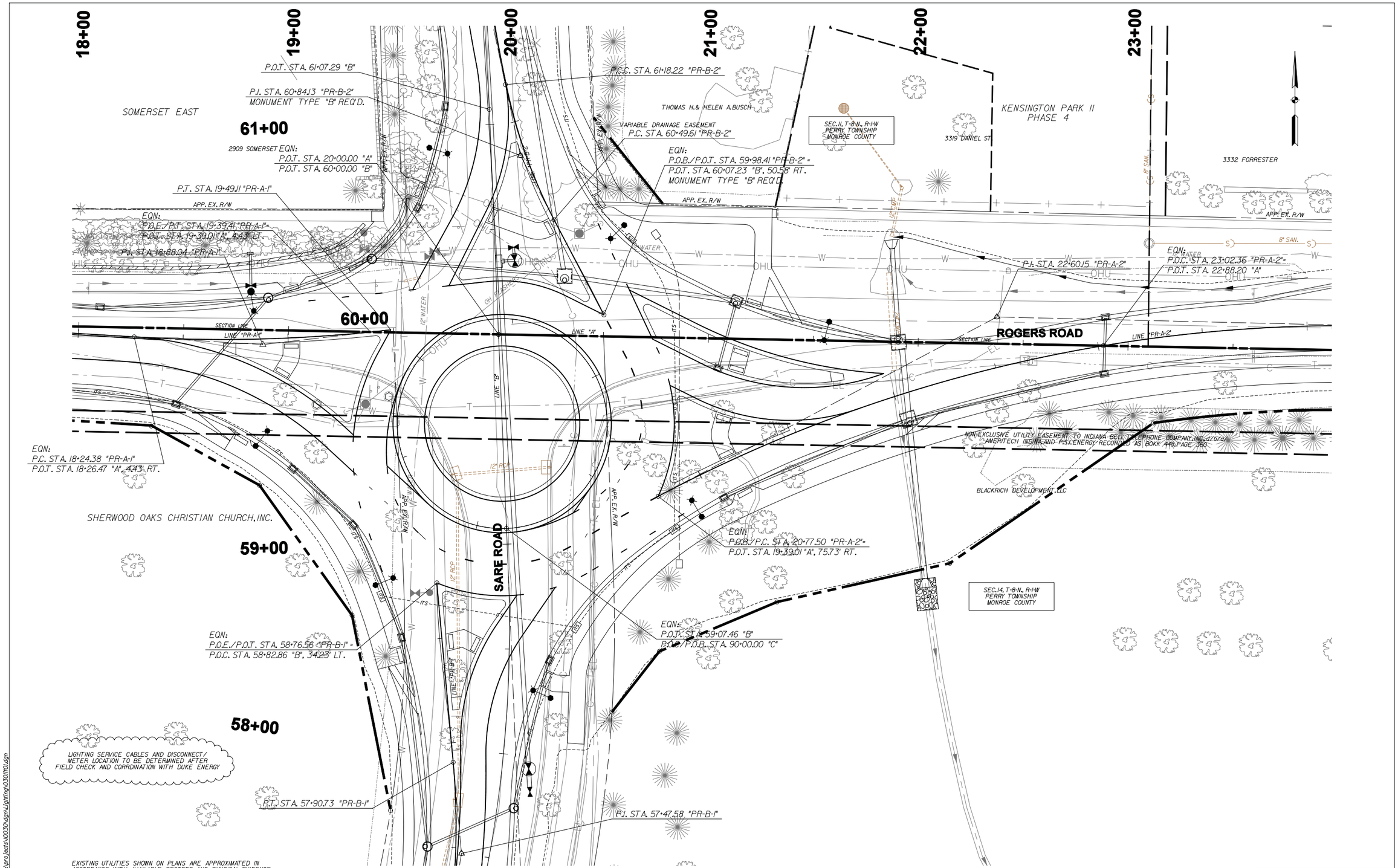
LAND02
7/21/2010 4:54:34 AM

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE		INDIANA DEPARTMENT OF TRANSPORTATION	HORIZONAL SCALE: 1" = 50'-0"
DESIGNED: BR	DRAWN: SI	LANDSCAPE AND PLANTING PLANS	VERTICAL SCALE
CHECKED: X	CHECKED: BR		SURVEY BOOK
			CONTRACT

BRIDGE FILE	N/A
DESIGNATION	0900213
SHEETS	23 of 35
PROJECT	0900213



EXISTING UTILITIES SHOWN ON PLANS ARE APPROXIMATED IN ACCORDANCE WITH AVAILABLE RECORDS AND PHYSICAL EVIDENCE. OTHER UTILITIES MAY BE PRESENT. ACTUAL LOCATIONS AND ELEVATIONS ARE TO BE DETERMINED BY CONTRACTOR.

ALL R/W AND TOPO DESCRIBED FROM LINE "A"

SEE SHEET 2 FOR LEGEND

● NEW LIGHT POLE LOCATIONS (TYP. FOUNDATION LOCATION IS 5' BEHIND CURB, UNLESS BETWEEN CURB AND WALK, IN WHICH CASE THE POLE SHALL BE INSTALLED TO BE 1' CLEAR FROM THE ADJACENT EDGE OF WALK/PATH.

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER _____ DATE

DESIGNED: BR | DRAWN: SI

CHECKED: X | CHECKED: BR

INDIANA
DEPARTMENT OF TRANSPORTATION

LIGHTING PLAN AND DETAILS

HORIZONAL SCALE	BRIDGE FILE
1" = 20'-0"	N/A
VERTICAL SCALE	DESIGNATION
	0900213
SURVEY BOOK	SHEETS
	24 of 35
CONTRACT	PROJECT
	0900213

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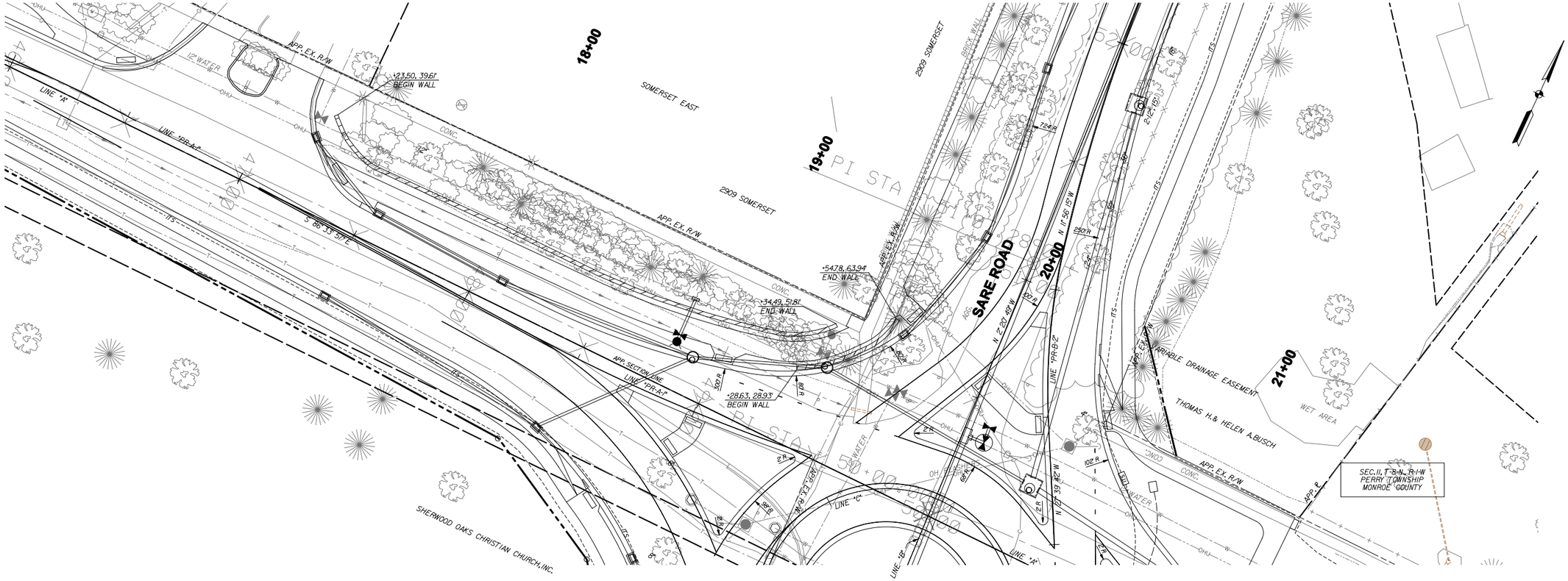
11001
7/21/2010 4:54:51 AM



WALL PROFILES TO BE ADDED FOR STAGE 2

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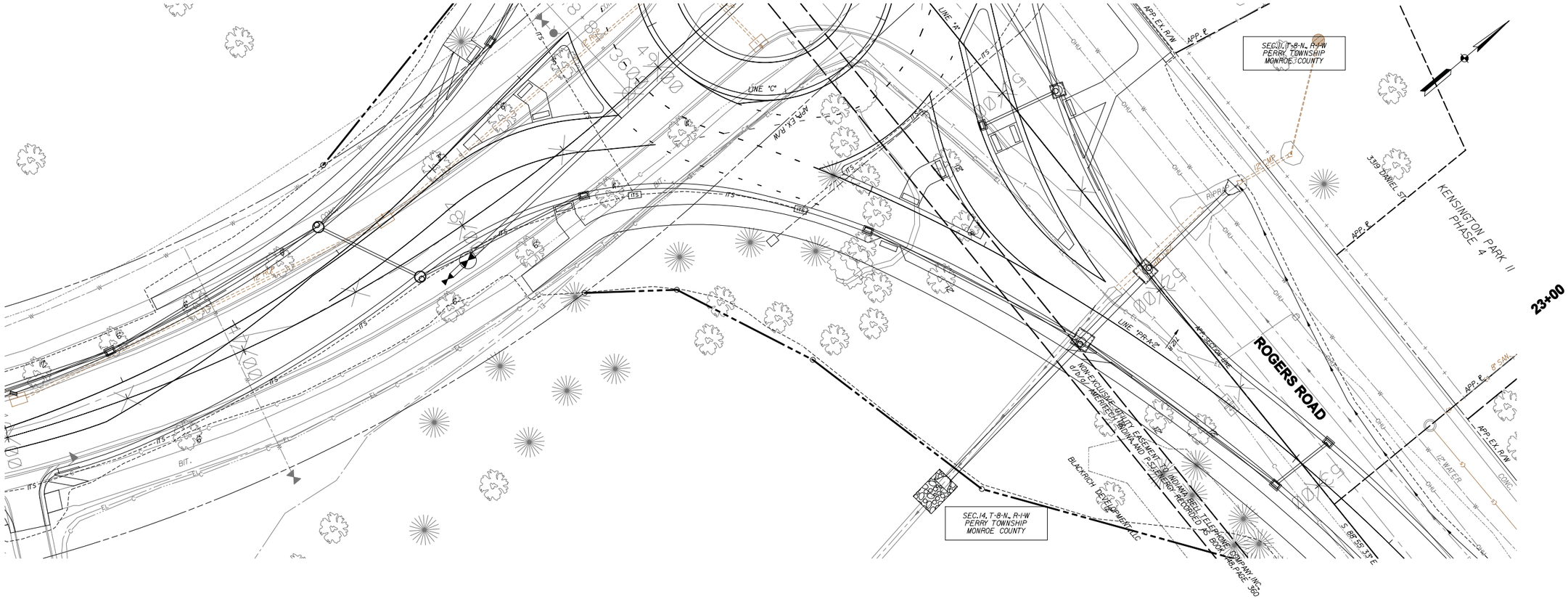
RW001
7/21/2010 4:55:59 AM

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE	INDIANA DEPARTMENT OF TRANSPORTATION	HORIZONAL SCALE 1" = 20'-0"	BRIDGE FILE N/A
		VERTICAL SCALE 1" = 5'-0"	DESIGNATION 0900213
DESIGNED: BR / DRAWN: SI	RETAINING WALL DETAILS	SURVEY BOOK	SHEETS 25 of 35
CHECKED: X / CHECKED: BR		CONTRACT	PROJECT 0900213



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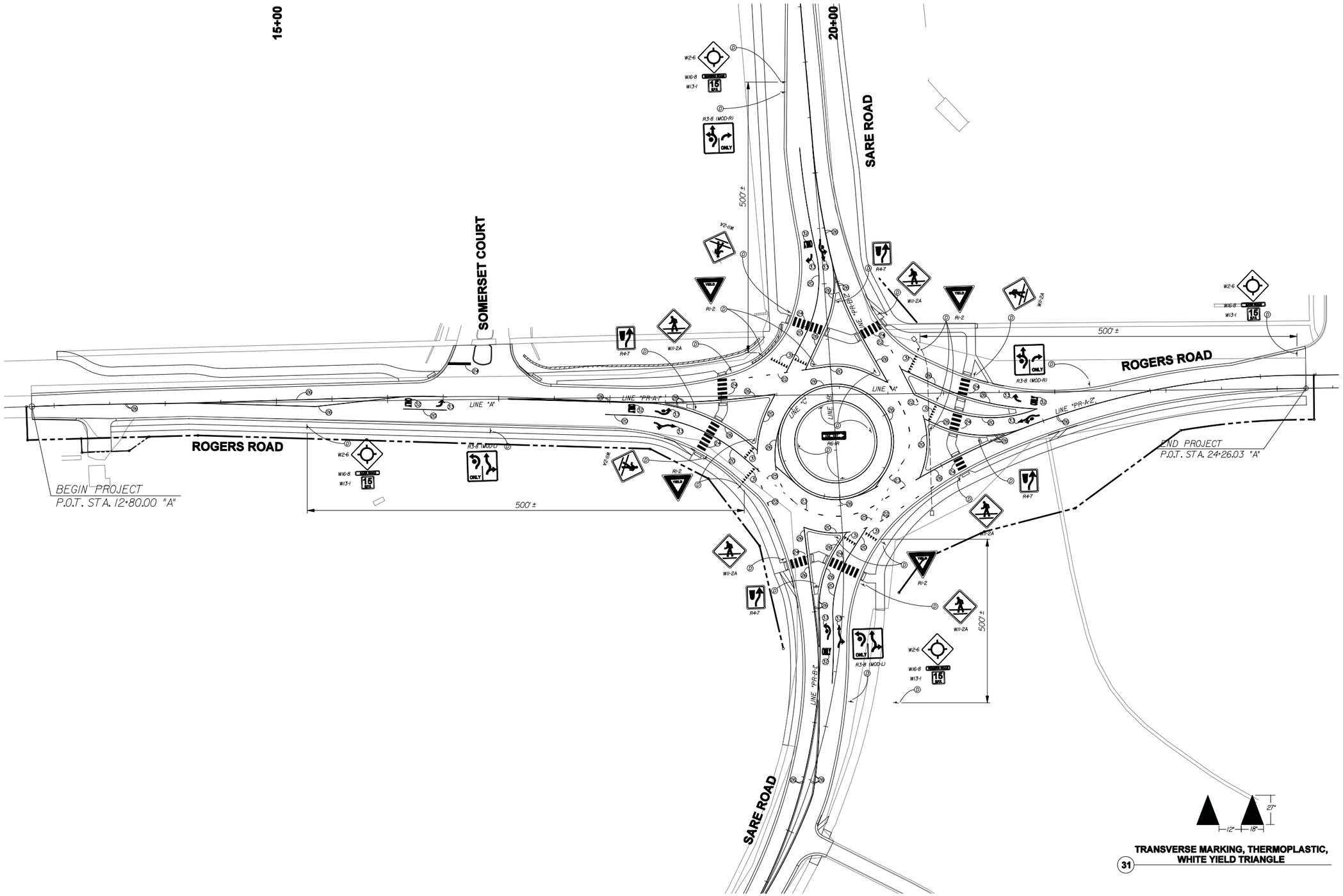
4:55:17 AM

RW002
7/21/2010

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE		INDIANA DEPARTMENT OF TRANSPORTATION	HORIZONAL SCALE: 1" = 20'-0" / BRIDGE FILE: N/A
			VERTICAL SCALE: 1" = 5'-0" / DESIGNATION: 0900213
DESIGNED: BR	DRAWN: SI	RETAINING WALL DETAILS	SURVEY BOOK / SHEETS: 26 of 35
CHECKED: X	CHECKED: BR		CONTRACT / PROJECT: 0900213



TRANSVERSE MARKING, THERMOPLASTIC, WHITE YIELD TRIANGLE

31

SIGN LEGEND

- (A) NO CHANGE REQUIRED TO EXIST.SIGN & SUPPORTS
- (B) REMOVE EXIST.SHEET SIGN & SUPPORTS
- (C) RELOCATE EXIST.SIGN ON NEW POST(S)
- (D) NEW SIGN AND POST(S)

PAVEMENT MARKING LEGEND

- (20) LINE.THERMOPLASTIC.SOLID WHITE.4 INCHES
- (22) LINE.THERMOPLASTIC.DOTTED WHITE.8 INCHES.2' LINE.2' GAP
- (23) LINE.THERMOPLASTIC.DOTTED WHITE.4 INCHES.2' LINE.4' GAP
- (24) LINE.THERMOPLASTIC.SOLID WHITE.CROSSWALK/ ALL STOP BARS.24 INCHES
- (25) LINE.THERMOPLASTIC.WHITE.4 INCHES.2' LINE.8' GAP
- (26) LINE.THERMOPLASTIC.SOLID YELLOW.4 INCHES
- (27) LINE.THERMOPLASTIC.SOLID YELLOW.8 INCHES
- (29) TRANSVERSE MARKING.THERMOPLASTIC.CROSSHATCH.YELLOW.12 INCHES
- (31) TRANSVERSE MARKING.THERMOPLASTIC.WHITE YIELD TRIANGLE
- (32) TRANSVERSE MARKING.THERMOPLASTIC.WORD (ONLY)
- (33) TRANSVERSE MARKING.THERMOPLASTIC.LANE INDICATION ARROW

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: BR | DRAWN: SI

CHECKED: X | CHECKED: BR

INDIANA DEPARTMENT OF TRANSPORTATION

SIGN AND PAVEMENT MARKINGS

HORIZONAL SCALE	BRIDGE FILE
1" = 40'-0"	N/A
VERTICAL SCALE	DESIGNATION
	0900213
SURVEY BOOK	SHEETS
	27 of 35
CONTRACT	PROJECT
	0900213

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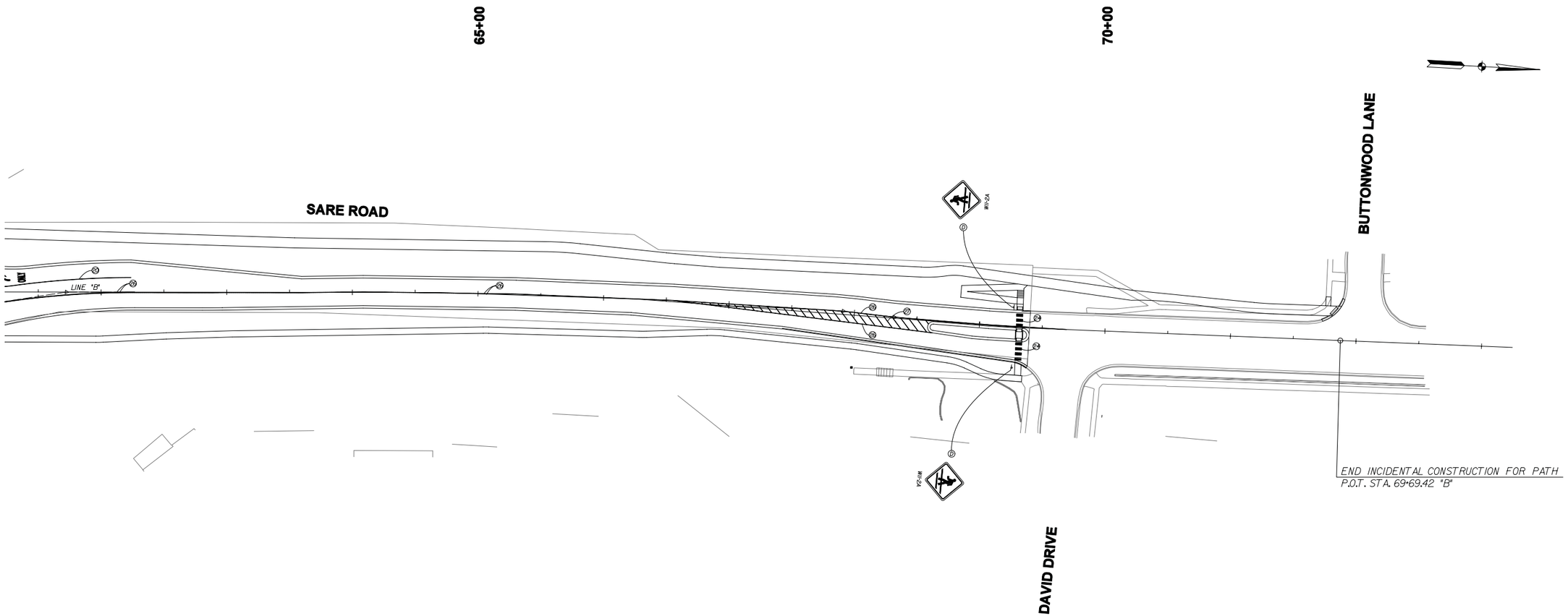

SIGN LEGEND

- (A) NO CHANGE REQUIRED TO EXIST.SIGN & SUPPORTS
- (B) REMOVE EXIST.SHEET SIGN & SUPPORTS
- (C) RELOCATE EXIST.SIGN ON NEW POST(S)
- (D) NEW SIGN AND POST(S)

PAVEMENT MARKING LEGEND

- (20) LINE,THERMOPLASTIC,SOLID WHITE,4 INCHES
- (22) LINE,THERMOPLASTIC,DOTTED WHITE,8 INCHES,2' LINE,2' GAP
- (23) LINE,THERMOPLASTIC,DOTTED WHITE,4 INCHES,2' LINE,4' GAP
- (24) LINE,THERMOPLASTIC,SOLID WHITE,CROSSWALK/ ALL STOP BARS,24 INCHES
- (25) LINE,THERMOPLASTIC,WHITE,4 INCHES,2' LINE,8' GAP
- (26) LINE,THERMOPLASTIC,SOLID YELLOW,4 INCHES
- (27) LINE,THERMOPLASTIC,SOLID YELLOW,8 INCHES
- (29) TRANSVERSE MARKING,THERMOPLASTIC,CROSSHATCH,YELLOW,12 INCHES
- (31) TRANSVERSE MARKING,THERMOPLASTIC,WHITE YIELD TRIANGLE
- (32) TRANSVERSE MARKING,THERMOPLASTIC,WORD (ONLY)
- (33) TRANSVERSE MARKING,THERMOPLASTIC,LANE INDICATION ARROW

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: BR DRAWN: SI

CHECKED: X CHECKED: BR

INDIANA
DEPARTMENT OF TRANSPORTATION

SIGN AND PAVEMENT MARKINGS

HORIZONAL SCALE	BRIDGE FILE
1" = 40'-0"	N/A
VERTICAL SCALE	DESIGNATION
	0900213
SURVEY BOOK	SHEETS
	28 of 35
CONTRACT	PROJECT
	0900213

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PVM02
7/21/2010 4:55:42 AM

SHEET SIGN SUMMARY TABLE

SIGN DATA																POST DATA										
LOCATION																SQUARE, QWIK - PUNCH										
																TYPE 2 2"x2"x12 ga.			TYPE 1 2.25" x 2.25" x 12 ga.			TYPE 3 2.5"x2.5"x12 ga.				
																REINFORCED			REINFORCED			UNREINFORCED				
STATION	LEFT	MEDIAN	RIGHT	SIGN DESCRIPTION	SIGN CODE	SIGN SIZE	REMOVE SIGN	RELOCATE EXISTING SIGN	NEW SIGN	ENCAPSULATED LENS METAL THICKNESS (in.)			ENCLOSED LENS METAL THICKNESS (in.)			POST LENGTH (FT)			POST LENGTH (FT)			POST LENGTH (FT)			PVC PIPE SLEEVE FOR SIGN IN SIDEWALK	REMARKS
										0.080	0.100	0.125	0.080	0.100	0.125											
						in. x in.	EACH	EACH		SFT	SFT	SFT	SFT	SFT	SFT	1	2	TOTAL	1	2	TOTAL	1	2	TOTAL	EACH	
LINE "A"																										
MOUNTED ON SIGNAL EQUIPMENT:																										
TOTALS										**0.00**	**0**	**0.00**						**0**			**0**			**0**	**0**	
PAY UNIT							**EACH**	**EACH**	**EACH**	**SFT**	**SFT**	**SFT**						**LFT**			**LFT**			**LFT**	**EACH**	

TO BE COMPLETED FOR STAGE 2 PLANS

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7/21/2010 4:55:47 AM

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: BR DRAWN: SI

CHECKED: X CHECKED: BR

INDIANA
DEPARTMENT OF TRANSPORTATION

SIGNS SUMMARY TABLE

HORIZONAL SCALE	BRIDGE FILE
	N/A
VERTICAL SCALE	DESIGNATION
	0900213
SURVEY BOOK	SHEETS
	29 of 35
CONTRACT	PROJECT
	0900213

TO BE COMPLETED
FOR STAGE 2 PLANS

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Del-Water
7/21/2010 4:55:51 AM

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE		INDIANA DEPARTMENT OF TRANSPORTATION	HORIZONAL SCALE: N/A; BRIDGE FILE: N/A; VERTICAL SCALE: N/A; DESIGNATION: 0900213
DESIGNED: BR	DRAWN: SI	WATERMAIN DETAILS	SURVEY BOOK; SHEETS: 30 of 35
CHECKED: X	CHECKED: BR		CONTRACT; PROJECT: 0900213

MISCELLANEOUS QUANTITIES SUMMARY TABLE

LOCATION					SIDEWALKS AND RAMPS							CURB LENGTHS										NEW TREES		EST. REMOVAL ITEMS, FOR INFO ONLY, PAID AS CLEARING											
FROM STATION	TO STATION	LEFT	MEDIAN	RIGHT	WIDTH OF SIDEWALK	SIDEWALK AREA	RAMP Type (1)	RAMP AREA (1)	RAMP Type (2)	RAMP AREA (2)	COMPACTED AGG. BASE UNDER WALKS & RAMPS	STANDING CURB	24" CURB & GUTTER	24" REVERSE-SLOPED CURB & GUTTER	ADJUST CASTING TO GRADE (SANITARY MANHOLE)	VALVE COVER, ADJUST TO GRADE	WATER METER, ADJUST TO GRADE	NURSERY SODDING FOR LAWNS	MULCHING MATERIAL	TOPSOIL (IN LINEAR GRADING)	EXISTING TREE PROTECTION	TREE TYPE (SEE LEGEND)	TREE COUNT	TREE REMOVAL, 6"	TREE REMOVAL, 12"	TREE REMOVAL, 18"	TREE REMOVAL, 24"	PIPE REMOVAL	INLET & MANHOLE, REMOVE	SIDEWALK, REMOVE	CURB, REMOVE	CURB & GUTTER, REMOVE			
					LFT	SYS	TYPE	SYS	TYPE	SYS	TON	LFT	LFT	LFT	EACH	EACH	EACH	SYS	CYS	CYS	EACH	TYPE	EACH	EACH	EACH	EACH	EACH	LFT	EACH	SYS	LFT	LFT			
LINE "A"																																			
TOTALS						0					0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0	0	0
PAY UNIT						SYS					TON	LFT	LFT	LFT	EACH	EACH	EACH	SYS	CYS	CYS	EACH		EACH	EACH	EACH	EACH	EACH	LFT	EACH	SYS	LFT	LFT			

RAMP SUMMARY:

Type	Area
C	0.0
D	0.0
E	0.0
F	0.0
G	0.0
H	0.0

TO BE COMPLETED FOR STAGE 2 PLANS

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RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: BR DRAWN: SI

CHECKED: X CHECKED: BR

INDIANA DEPARTMENT OF TRANSPORTATION

MISCELLANEOUS SUMMARY OF QUANTITIES

HORIZONAL SCALE	BRIDGE FILE
	N/A
VERTICAL SCALE	DESIGNATION
	0900213
SURVEY BOOK	SHEETS
	31 of 35
CONTRACT	PROJECT
	0900213

PAVEMENT QUANTITIES AND APPROACH TABLE

LOCATION		DESCRIPTION (APPROACH TYPE OR CLASS)	WIDTH	LENGTH	RADII	DISTANCE BEYOND R/W LINE	SURFACE BEYOND R/W LINE			GRADES FROM EDGE OF PAVEMENT (ALL HAVE 1.5" LIP AT EDGE OF DRIVE)				HMA FOR APPROACHES			HMA WIDENING	FULL DEPTH PAVING			HMA TOP LAYERS		MILLING, 1.5"	PCCP FOR APPROACHES		FLOWABLE FILL (Undistributed) (Class A Concrete - Road Patching)	TACK COAT	COMPACTED AGGREGATE FOR BASE NO. 53			REMARKS
							COMPACTED AGGREGATE BASE	HMA	CONCRETE					SURFACE, Type B	INTERMEDIATE, Type B	BASE, Type B	HMA, TYPE B, BASE (in 2 Lifts)	HMA, BASE TYPE B (in 2 Lifts)	HMA, BASE, TYPE B	SUBGRADE TREATMENT "IV" incl. 9" Comp. Agg on Geogrid Type I	HMA, INTERMEDIATE, TYPE B	HMA, SURFACE, TYPE B		UNCOLORED, CLASS I DRIVE	UNCOLORED, CLASS III DRIVE			DEPTH			
														1.5"	2.5"	4"	7"	7"	4"									4"	6"	8"	
STATION RANGES										1	2	3	4	165#	275#	440#	770#	770#	440#		275#	165#		6"	9"	12"					
FROM	TO		FT	FT	FT	FT	SYS	SYS	SYS	%	%	%	%	SYS	SYS	SYS	SYS	SYS	SYS	SYS	SYS	SYS	SYS	SYS	SYS	CYS	SYS	SYS	SYS	SYS	
DRIVES AND APPROACHES																															
LINE "A"																															
MAINLINE PAVEMENTS																															
LINE "A"																															
												SUBTOTALS:		0	0	0	0	0	0	0	0	0	0		0	0	0		0	0	
														SYS	SYS	SYS	SYS	SYS	SYS	SYS	SYS	SYS	SYS		SYS	CYS	SYS		SYS	SYS	
														0	0	0	0	0	0		0	0								0	
														TONS	TONS	TONS	TONS	TONS	TONS		TONS	TONS								TONS	
										PAY QUANTITIES:						0	0		0	0	0	0	0		0	0	0		0	0	
										PAY UNITS						TONS	TONS		TONS	SYS	TONS	TONS	SYS		SYS	CYS	SYS		SYS	TONS	

TO BE COMPLETED FOR STAGE 2 PLANS

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INDIANA
DEPARTMENT OF TRANSPORTATION

PAVEMENT QUANTITIES
AND APPROACH TABLE

HORIZONAL SCALE	BRIDGE FILE
	N/A
VERTICAL SCALE	DESIGNATION
	0900213
SURVEY BOOK	SHEETS
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	0900213

UNDERDRAIN TABLE

UNDERDRAIN PIPE											OUTLET PIPE										OUTLET PROTECTORS						
Underdrain Pipe Limits	Type 4 Pipe		Geotextile for Underdrains	Aggregate for Underdrains	HMA for Underdrains	Special Grade	Flow Line Elevation @ Underdrain Pipe Limit	Outlet Pipe Required	Connect Underdrain Pipe to Structure No. ___	Structure Invert Elevation	45 Degree Elbows Required (1 or 2)	6" Outlet Pipe	Outlet Station	Outlet Elevation	Outlet at Outlet Protector No. ___	Ditch Flow Line Elevation at Outlet Protector	Connect Outlet Pipe to Structure No. ___	Structure Invert Elevation	B Borrow for Structure Backfill	HMA for Underdrains	Outlet Protector No. ___	Outlet Protector Type	Location				Remarks
	4"	6"																					Outside Left	Median Left	Median Right	Outside Right	
	LFT	LFT	SYS	CYS	TONS	%		(Y/N)				LFT							CYS	TONS							

TO BE COMPLETED FOR STAGE 2 PLANS

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RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: BR DRAWN: SI

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INDIANA
DEPARTMENT OF TRANSPORTATION

UNDERDRAIN TABLE

HORIZONAL SCALE	BRIDGE FILE
	N/A
VERTICAL SCALE	DESIGNATION
	0900213
SURVEY BOOK	SHEETS
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CONTRACT	PROJECT
	0900213

STRUCTURE DATA TABLE

STRUCTURE NUMBER	LOCATION				SIZE	PIPE TYPE	MANHOLE, CATCH BASIN, INLET, OR SPECIALTY STRUCTURE	LENGTH	SLOPE	COVER	FLOWLINE		APPROX. CASTING EL.	SERVICE LIFE	SITE DESIGNATION	pH	BACKFILL METHOD	STRUCTURAL BACKFILL	FLOWABLE BACKFILL	HMA FOR PATCHING, TYPE B	CONCRETE, CLASS A	REVETMENT RIPRAP	GEOTEXTILE	SAFETY METAL END SECTION	CONNECT TO STR.	REMARKS
	STATION	LEFT	RIGHT	CROSS							UP STREAM	DOWN STREAM														
					IN			FT	%	FT	ELEV.	ELEV.	ELEV.	YRS				CYS	CYS	TON	CYS	TON	SYS	EACH		
11	12+85	X			18	2	MANHOLE C-10	17	0.41		783.92	783.85		75	NON		1							1 - 18"	Ditch Outlet	
12	12+94	X			12	2	INLET M-10	4	2.50		784.60	784.50		75	NON		1								11	
13	13+75	X			12	2	INLET J-10	78	0.55		785.13	784.70		75	NON		1								12	
14	12+89		X		18	2	MANHOLE C-10	22	0.55		784.14	784.02		75	NON		1								11	
16	12+89		X		15	2	INLET E-7	12	0.50		784.30	784.24		75	NON		1								14	
17	12+99		X		15	2	INLET M-10	6	1.00		784.30	784.24		75	NON		1								14	
18	13+58		X		15	2	MANHOLE C-10	56	0.71		784.80	784.40		75	NON		1								17	
19	13+67		X		15	2	INLET E-7	14	0.71		785.00	784.90		75	NON		1								18	
21	17+50		X		12	2	INLET J-10	98	4.08		787.30	783.30		75	NON		1								22	
22	18+47		X		12	2	INLET M-10	64	1.41		783.20	782.30		75	NON		1								44	
23	19+03		X		12	2	INLET J-10	37	2.70		782.10	781.10		75	NON		1								24	
24	59+12	X			12	2	INLET M-10	56	1.79		781.00	780.00		75	NON		1								25	
25	58+55	X			12	2	INLET M-10	97	2.16		779.90	777.80		75	NON		1								26	
26	57+50	X			12	2	MANHOLE C-10	93	2.15		777.70	775.70		75	NON		1								29	
27	57+75		X		12	2	MANHOLE C-10	41	2.44		778.80	777.80		75	NON		1								26	
28	58+45		X		12	2	INLET J-10	69	0.43		779.60	779.30		75	NON		1								27	Water Grade Pipe Req'd - Proximity to Watermain
29	56+50	X			15	2	INLET M-10	94	1.06		775.60	774.60		75	NON		1								32	
31	56+05	X			-	2	Remove Existing Inlet & Pipe		NA		NA	NA		75	NON		1								N/A	Remove Existing Pipe
32	55+50	X			15	2	INLET M-10	24	1.25		774.50	774.20		75	NON		1								33	
33	55+21.5	X			24	2	MANHOLE D-10	24	NA		Exist	Exist		75	NON		1				1.0				Exist Pipe	Approx Invert 773.3
35	21+09		X		12	2	INLET J-10	91	2.42		779.80	777.60		75	NON		1								36	
36	22+00		X		30	2	MANHOLE E-10	75	0.93		763.20	762.50		75	NON		1								Ditch Outlet	
37	22+89		X		12	2	INLET M-10	91	0.55		774.70	774.20		75	NON		1								36	
38	22+89	X			12	2	INLET J-10	25	0.40		774.90	774.80		75	NON		1								37	
41	17+20	X			12	2	INLET J-10	36	3.89		788.50	787.10		75	NON		1								42	
42	17+55	X			12	2	INLET M-10	52	4.23		787.00	784.80		75	NON		1								43	
43	18+10	X			12	2	INLET M-10	77	3.12		784.70	782.30		75	NON		1								44	
44	18+90	X			12	2	MANHOLE C-10	49	2.04		782.20	781.20		75	NON		1								45	
45	19+39	X		X	12	2	MANHOLE C-10	87	1.49		781.10	779.80		75	NON		1								46	Water Grade Pipe Req'd - Proximity to Watermain
46	20+31		X		24	2	MANHOLE E-4	77	2.34		772.20	770.40		75	NON		1								48	
47	21+05	X			12	2	INLET J-10	30	0.67		778.30	778.10		75	NON		1								48	
48	21+13	X			24	2	MANHOLE D-10	74	2.03		765.40	763.90		75	NON		1								50	
49	60+19	X			24	2	PIPE with SMES	31	0.65		764.10	763.90		75	NON		1							1 - 24"	50	
50	21+90.5	X		X	30	2	MANHOLE E-10	48	1.04		763.80	763.30		75	NON		1								36	
51	60+62	X			12	2	INLET J-10	47	1.91		780.60	779.70		75	NON		1								52	
52	61+10	X			12	2	INLET M-10	67	0.45		779.60	779.30		75	NON		1								53	
53	61+80	X			12	2	INLET M-10	87	2.07		779.20	777.40		75	NON		1								54	
54	62+70	X			12	2	INLET M-10	57	1.05		777.30	776.70		75	NON		1								55	
55	63+30	X			12	2	INLET M-10	25	1.20		776.60	776.30		75	NON		1								57	Water Grade Pipe Req'd - Proximity to Watermain
56	63+60	X			18	2	PIPE with SMES	27	1.11		776.80	776.50		75	NON		1							1 - 18"	60	
57	63+60	X		X	24	2	MANHOLE D-10	17	1.18		776.20	776.00		75	NON		1								81	Water Grade Pipe Req'd - Proximity to Watermain
58	63+66	X			12	2	INLET M-10	1	10.00		776.40	776.30		75	NON		1								57	Water Grade Pipe Req'd - Proximity to Watermain
59	64+15	X			12	2	INLET M-10	46	2.39		777.60	776.50		75	NON		1								58	Water Grade Pipe Req'd - Proximity to Watermain
60	63+60	X			18	2	INLET E-7	4	2.50		776.40	776.30		75	NON		1								57	
61	65+20	X			12	2	INLET M-10	102	1.03		778.75	777.70		75	NON		1								59	Water Grade Pipe Req'd - Proximity to Watermain
62	65+80	X			12	2	INLET M-10	57	0.96		779.40	778.85		75	NON		1								61	Water Grade Pipe Req'd - Proximity to Watermain
63	66+65	X			12	2	INLET M-10	83	2.17		781.30	779.50		75	NON		1								62	Water Grade Pipe Req'd - Proximity to Watermain
64	67+40	X			12	2	INLET M-10	72	3.89		784.20	781.40		75	NON		1								63	
65	68+00	X			12	2	INLET M-10	57	5.61		787.50	784.30		75	NON		1								64	
66	69+37.5	X			12	2	INLET J-10	134	3.66		792.50	787.60		75	NON		1								65	
71	69+36.7		X		12	2	INLET J-10	61	3.28		794.00	792.00		75	NON		1								72	Water Grade Pipe Req'd - Proximity to Watermain
72	68+75		X		12	2	INLET M-10	72	6.39		791.90	787.30		75	NON		1								74	Water Grade Pipe Req'd - Proximity to Watermain
73	68+10		X		18	2	PIPE with SMES	19	6.32		788.50	787.30		75	NON		1							1 - 18"	74	
74	68+00		X		18	2	MANHOLE C-10	97	5.67		787.20	781.70		75	NON		1								75	Water Grade Pipe Req'd - Proximity to Watermain
75	67+00		X		18	2	INLET M-10	97	1.55		781.60	780.10		75	NON		1								76	High Strength / Water Grade Pipe Req'd - Shallow & Proximity to Water
76	66+00		X		18	2	INLET M-10	97	1.55		780.00	778.50		75	NON		1								77	High Strength / Water Grade Pipe Req'd - Shallow & Proximity to Water
77	65+00		X		18	2	INLET M-10	107	1.59		778.40	776.70		75	NON		1								78	High Strength / Water Grade Pipe Req'd - Shallow & Proximity to Water
78	63+90		X		18	2	INLET M-10	21	1.90		776.60	776.20		75	NON		1								79	Water Grade Pipe Req'd - Proximity to Watermain
79	63+66		X		18	2	INLET M-10	1	10.00		776.10	776.00		75	NON		1								81	Water Grade Pipe Req'd - Proximity to Watermain
81	63+60		X		24	2	MANHOLE E-10	23	1.30		775.90	775.60		75	NON		1								82	Water Grade Pipe Req'd - Proximity to Watermain
82	63+30		X		24	2	MANHOLE E-10	143	1.05		775.50	774.00		75	NON		1								83	Water Grade Pipe Req'd - Proximity to Watermain
83	61+80		X		24	2	MANHOLE E-10	147	1.09		773.90	772.30		75	NON		1								46	

	STRUCTURAL BACKFILL	FLOWABLE BACKFILL	HMA FOR PATCHING, TYPE B	CONCRETE, CLASS A	REVETMENT RIPRAP	GEOTEXTILE	SAFETY METAL END SECTION
	CYS	**CYS**	**TON**	**CYS**	**TON**	**SYS**	**EACH**
TOTALS:	0	0	0	1.0	0	0	3-18", 1-24"

NOTES:
*1 - WATER GRADE PIPE AS NOTED IS REQUIRED DUE TO PROXIMITY TO WATER MAIN
*2 - HDPE REQUIRED BECAUSE CITY INSTALLED MANHOLE HAS HOLE PRECAST FOR HDPE PIPE.
*3 - CITY STANDARDS REQUIRE STRUCTURAL BACKFILL (B-BORROW) BE #11 OR #12 CRUSHED STONE BEDDING BENEATH PIPES IS REQUIRED, 4" THICK IF ON SOIL, 6" THICK IF ON ROCK. 4" OF CRUSHED STONE ABOVE PIPE ALSO REQUIRED.
*4 - FOR PIPES WITH FLOWABLE FILL, PLACE IT ABOVE CRUSHED STONE PER TYPICAL DETAIL.

RECOMMENDED FOR APPROVAL ______ DESIGN ENGINEER DATE

DESIGNED: BR DRAWN: SI
CHECKED: X CHECKED: BR

INDIANA
DEPARTMENT OF TRANSPORTATION

STRUCTURE DATA TABLE

HORIZONAL SCALE	BRIDGE FILE
	N/A
VERTICAL SCALE	DESIGNATION
	0900213
SURVEY BOOK	SHEETS
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CONTRACT	PROJECT
	0900213

STORM SEWERS - STRUCTURE NUMBER

PIPE TYPE / SHAPE																													
SMOOTH PIPE SIZE																													
CORRUGATED PIPE SIZE																													
RCP/RCHEP (S) CLASS																													
RCP/RCHEP (S) $D_{0.01}$ RATING																													
NON-REINFORCED CONCRETE PIPE, CLASS 3 (S)																													
CORRUGATED PE PIPE, TYPE S (S)*																													
RIBBED PE PIPE (S)																													
SMOOTH WALL PE PIPE (S) / MAXIMUM DR																													
PROFILE WALL PVC PIPE (S)																													
SMOOTH WALL PVC PIPE (S)																													
PVC - WATER GRADE - AWWA C900 (8"-12")																													
PVC - WATER GRADE - AWWA C905 (14"-24")																													
SMOOTH WALL HIGH DENSITY POLYETHYLENE - ASTM D3350																													
DUCTILE IRON PIPE - AWWA C151 w/ PROTECTO 401 LINING, C																													

TO BE COMPLETED
FOR STAGE 2 PLANS

NOTES:
*1 - WATER GRADE PIPE AS NOTED IS REQUIRED DUE TO PROXIMITY TO WATER MAIN
*2 - HDPE REQUIRED BECAUSE CITY INSTALLED MANHOLE HAS HOLE PRECAST FOR HDPE PIPE.
*3 - CITY STANDARDS REQUIRE STRUCTURAL BACKFILL (B-BORROW) BE #11 OR #12 CRUSHED STONE BEDDING BENEATH PIPES IS REQUIRED, 4" THICK IF ON SOIL, 6" THICK IF ON ROCK. 4" OF CRUSHED STONE ABOVE PIPE ALSO REQUIRED.
*4 - FOR PIPES WITH FLOWABLE FILL, PLACE IT ABOVE CRUSHED STONE PER TYPICAL DETAIL.

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER _____ DATE

DESIGNED: BR | DRAWN: SI
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INDIANA
DEPARTMENT OF TRANSPORTATION

PIPE MATERIALS SHEET

HORIZONAL SCALE	BRIDGE FILE
	N/A
VERTICAL SCALE	DESIGNATION
	0900213
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