

1. THIS WORK CONSISTS OF THE MAINTENANCE OF TRAFFIC AND THE PROTECTION OF THE TRAVELING PUBLIC APPROACHING THE CONSTRUCTION AREA AND WITHIN THE LIMITS OF CONSTRUCTION.
2. FURNISH, ERECT, PLACE, AND MAINTAIN TRAFFIC CONTROL SIGNS AND DEVICES AND MAINTAIN TRAFFIC DURING HOURS OF CONSTRUCTION AND AT ALL OTHER TIMES IN ACCORDANCE WITH THE METHODS INDICATED ON THESE DRAWINGS AND,
 - THE SPECIAL PROVISIONS OF THE CONTRACT;
 - PA CODE, TITLE 67, CHAPTER 212, OFFICIAL TRAFFIC CONTROL DEVICES;
 - PDT PUBLICATION 213, TEMPORARY TRAFFIC CONTROL GUIDELINES;
 - PDT PUBLICATION 35, APPROVED CONSTRUCTION MATERIALS (BULLETIN 15);
 - PDT PUBLICATION 408, SPECIFICATIONS;
 - MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
3. IMMEDIATELY UPON COMPLETION OF THE WORK, REMOVE THE DEVICES. THE DEPARTMENT WILL REMOVE ANY TRAFFIC CONTROL DEVICES ERECTED BY DEPARTMENT FORCES.
4. COVER OR REMOVE ALL SIGNS NOT IN USE.

STAGE 1

- PLACE ADVANCED SIGNING AS INDICATED.
- REMOVE WALL ON SOUTHEAST CORNER OF ALMSHOUSE RD AND JACKSONVILLE RD. UTILIZE PATAS 102, 107, AND 109-F TO PERFORM WORK.
- INSTALL DRAINAGE PIPES BETWEEN HW-3 TO I-12, HW-3 TO MH-16, MH-16 TO I-19B, MH-16 TO MH-20, AND HW-1 TO HW-2. UTILIZE PATAS 106, 107, 109-F, AND 109-L TO PERFORM WORK.
- CONSTRUCT TEMPORARY PAVEMENT AS NEEDED FOR STAGE 1. UTILIZE PATAS 101-A AND 202-A TO PERFORM WORK.

STAGE 2

- PLACE ADVANCED SIGNING AS INDICATED. PLACE TEMPORARY TRAFFIC SIGNAL.
- SHIFT EASTBOUND TRAFFIC ONTO TEMPORARY PAVEMENT AND WESTBOUND TRAFFIC ONTO THE EXISTING EASTBOUND LANE OF ALMSHOUSE ROAD.
- PERFORM RECONSTRUCTION OF THE NORTHERN HALF OF ALMSHOUSE ROAD AS SHOWN ON THE TCP PLANS. RECONSTRUCT UP TO BINDER COURSE. DO NOT CONSTRUCT CURB OR TRUCK APRON AT THE CENTER OF THE ROUNDABOUT. INSTEAD, PLACE TEMPORARY PAVEMENT AT THE CENTER OF THE ROUNDABOUT UP TO THE LEVEL OF THE SURROUNDING PROPOSED PAVEMENT. INSTALL TEMPORARY CURB END TAPERS AS SHOWN ON THE TCP PLANS.
- CONSTRUCT DRIVEWAY ADJUSTMENTS AS SHOWN ON THE TCP PLANS.
- INSTALL DRAINAGE FROM I-1 TO I-12 AND FROM I-18A TO MH-19B. UTILIZE PATAS 106 AND 107 TO INSTALL CROSS PIPE BETWEEN I-12 AND I-7.

STAGE 3A

- PLACE ADVANCED SIGNING AS INDICATED.
- IMPLEMENT DETOUR FOR JACKSONVILLE ROAD.
- SHIFT WESTBOUND TRAFFIC ONTO NEWLY CONSTRUCTED NORTHERN PORTION OF ALMSHOUSE ROAD. EASTBOUND TRAFFIC WILL REMAIN ON THE TEMPORARY PAVEMENT.
- CONSTRUCT CENTER PORTION OF ROUNDABOUT UP TO BINDER COURSE WITHIN FULL DEPTH RECONSTRUCTION LIMITS. DO NOT CONSTRUCT CURB OR TRUCK APRON AT THE CENTER OF THE ROUNDABOUT. INSTEAD, PLACE TEMPORARY PAVEMENT AT THE CENTER OF THE ROUNDABOUT UP TO THE LEVEL OF THE SURROUNDING PROPOSED PAVEMENT.
- INSTALL CURB AND TRUCK APRON FOR NORTHERN PORTION OF ROUNDABOUT.
- BEGIN CONSTRUCTION OF JACKSONVILLE ROAD IMPROVEMENTS.

STAGE 3B

- PLACE ADVANCED SIGNING AS INDICATED.
- MAINTAIN DETOUR FOR JACKSONVILLE ROAD.
- SHIFT EASTBOUND TRAFFIC ONTO NEWLY CONSTRUCTED PAVEMENT ADJACENT TO WESTBOUND LANE. MAINTAIN WESTBOUND TRAFFIC.
- CONSTRUCT SOUTHERN PORTION OF ROUNDABOUT UP TO BINDER COURSE WITHIN FULL DEPTH RECONSTRUCTION LIMITS. CONSTRUCT CURB AND TRUCK APRON IN THE SOUTHERN PORTION OF THE ROUNDABOUT.
- INSTALL LOW POINT INLETS I-16A, I-16B, I-16C, AND CONNECTING PIPES. INSTALL PIPE BETWEEN I-16B AND MH-17.
- CONSTRUCT DRIVEWAY ADJUSTMENTS AS SHOWN ON THE TCP PLANS.
- CONTINUE CONSTRUCTION OF JACKSONVILLE ROAD IMPROVEMENTS.

STAGE 3C

- PLACE ADVANCED SIGNING AS INDICATED.
- MAINTAIN DETOUR FOR JACKSONVILLE ROAD.
- ADJUST ROUNDABOUT APPROACHES TO ALLOW TRAFFIC TO UTILIZE NEWLY CONSTRUCTED PORTIONS OF THE ROUNDABOUT.
- CONSTRUCT CENTER PORTION OF ROUNDABOUT UP TO BINDER COURSE WITHIN FULL DEPTH RECONSTRUCTION LIMITS. CONSTRUCT CURB AND TRUCK APRON IN THE CENTER PORTION OF THE ROUNDABOUT.
- FINISH CONSTRUCTION OF JACKSONVILLE ROAD IMPROVEMENTS.

STAGE 4

- PLACE ADVANCED SIGNING AS INDICATED.
- OPEN ROUNDABOUT TO TRAFFIC.
- REMOVE DETOUR AND OPEN JACKSONVILLE ROAD TO TRAFFIC.
- SHIFT TRAFFIC ALONG ALMSHOUSE ROAD AGAINST THE PROPOSED NORTHERN CURB LINE.
- CONSTRUCT SOUTHERN HALF OF ALMSHOUSE ROAD. CONSTRUCT DRIVEWAY ADJUSTMENTS.

STAGE 5

- PLACE ADVANCED SIGNING AS INDICATED.
- OPEN ALMSHOUSE ROAD TO TRAFFIC.
- CONSTRUCT REMAINING PORTIONS OF CURB AND APPROACH ISLANDS ALONG ALMSHOUSE ROAD. UTILIZE PATAS 132 AND 133 TO PERFORM THE WORK.
- PERFORM MILL AND OVERLAY ALONG ALMSHOUSE ROAD. PLACE WEARING COURSE WITHIN FULL DEPTH RECONSTRUCTION LIMITS.

INCLUDED IN ITEM 0901-0001
(FOR INFORMATION ONLY)

[illegible]

NOTES: SPECIAL SIGNS TO HAVE BLACK LEGEND AND BORDER ON ORANGE
RETRO REFLECTIVE BACKGROUND.

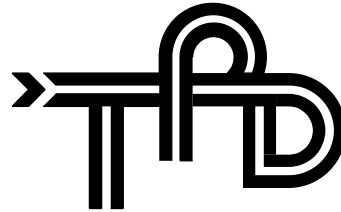
INCLUDED IN ITEM 0901-0001
(FOR INFORMATION ONLY)

STAGE OF CONSTRUCTION	TYPE 'B' FLASHER (AMBER)	TYPE III BARRICADE
	EACH	EACH
STAGE 1		
STAGE 2		
TOTALS		

DESCRIPTION	SHEET
GENERAL NOTES	1
INDEX MAP	2
STAGE 1 PLANS	3 TO 4
STAGE 2 PLANS	5 TO 6
STAGE 3 PLANS	7 TO 12
STAGE 4 PLANS	13 TO 14
STAGE 5 PLANS	15 TO 16
DETOUR PLANS	17 TO 20
SIGN DETAIL SHEET	21
TEMPORARY TRAFFIC SIGNAL PLANS	22 TO 24

RECOMMENDED _____ 20 _____

DISTRICT TRAFFIC ENGINEER



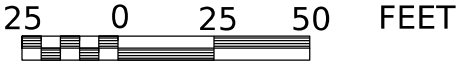
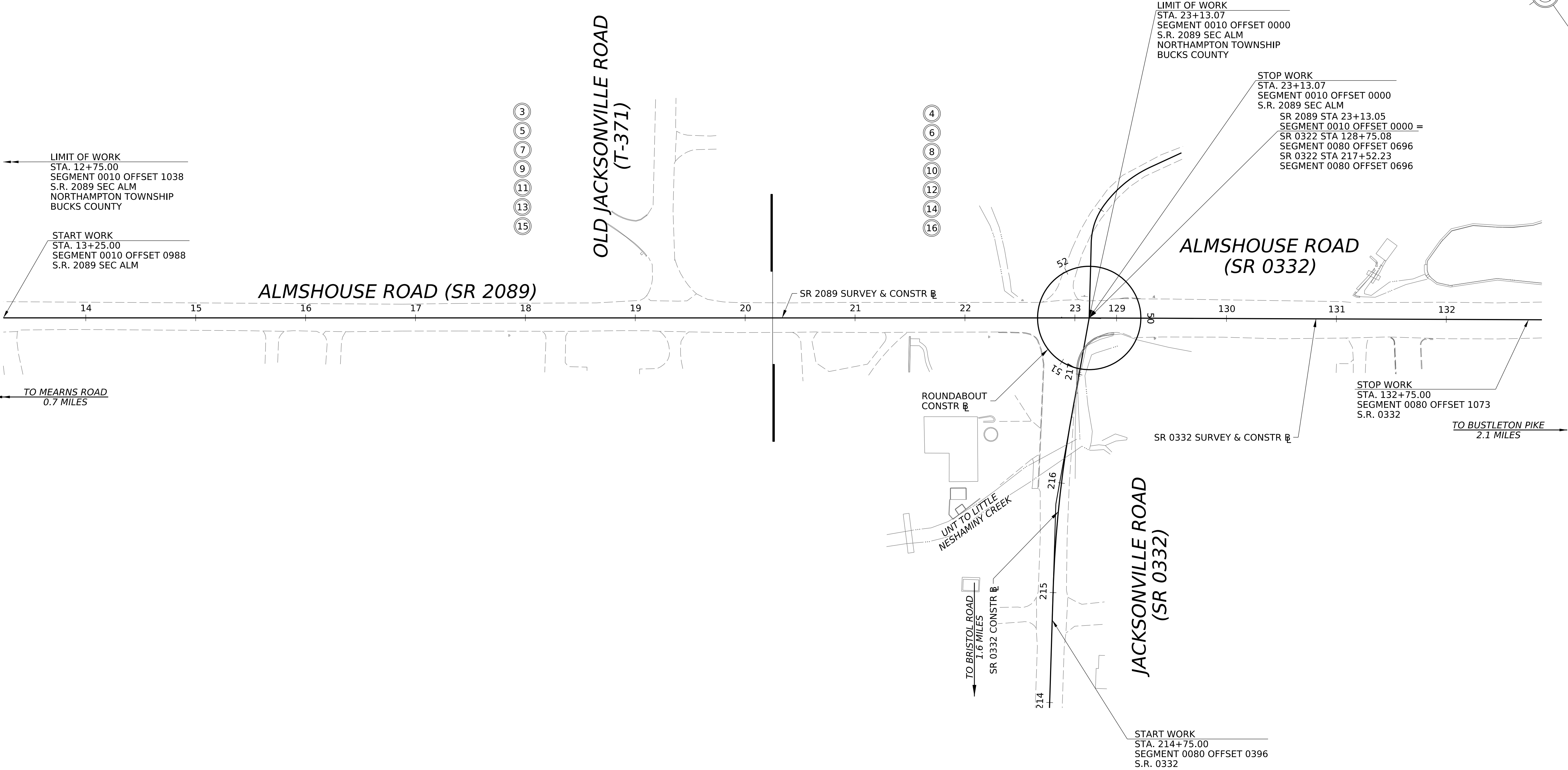
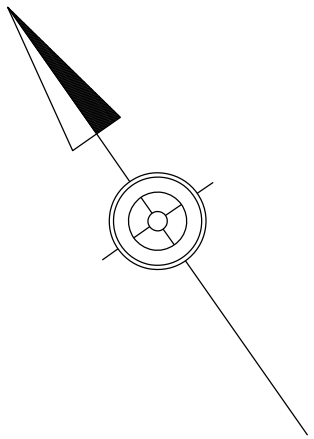
TRAFFIC PLANNING AND
DESIGN, INC. (TPD)
2500 E. HIGH STREET
SUITE 650
POTTSTOWN, PA 19464

REG PROF ENGINEER

DATE: _____ MONTH XX, 202X

DISTRICT	COUNTY	ROUTE	SECTION	SHEET		
6-0	BUCKS	2089	ALM	2 OF 24		
NORTHAMPTON TOWNSHIP						
REV NO	REVISIONS			DATE	BY	APPD

LEGEND

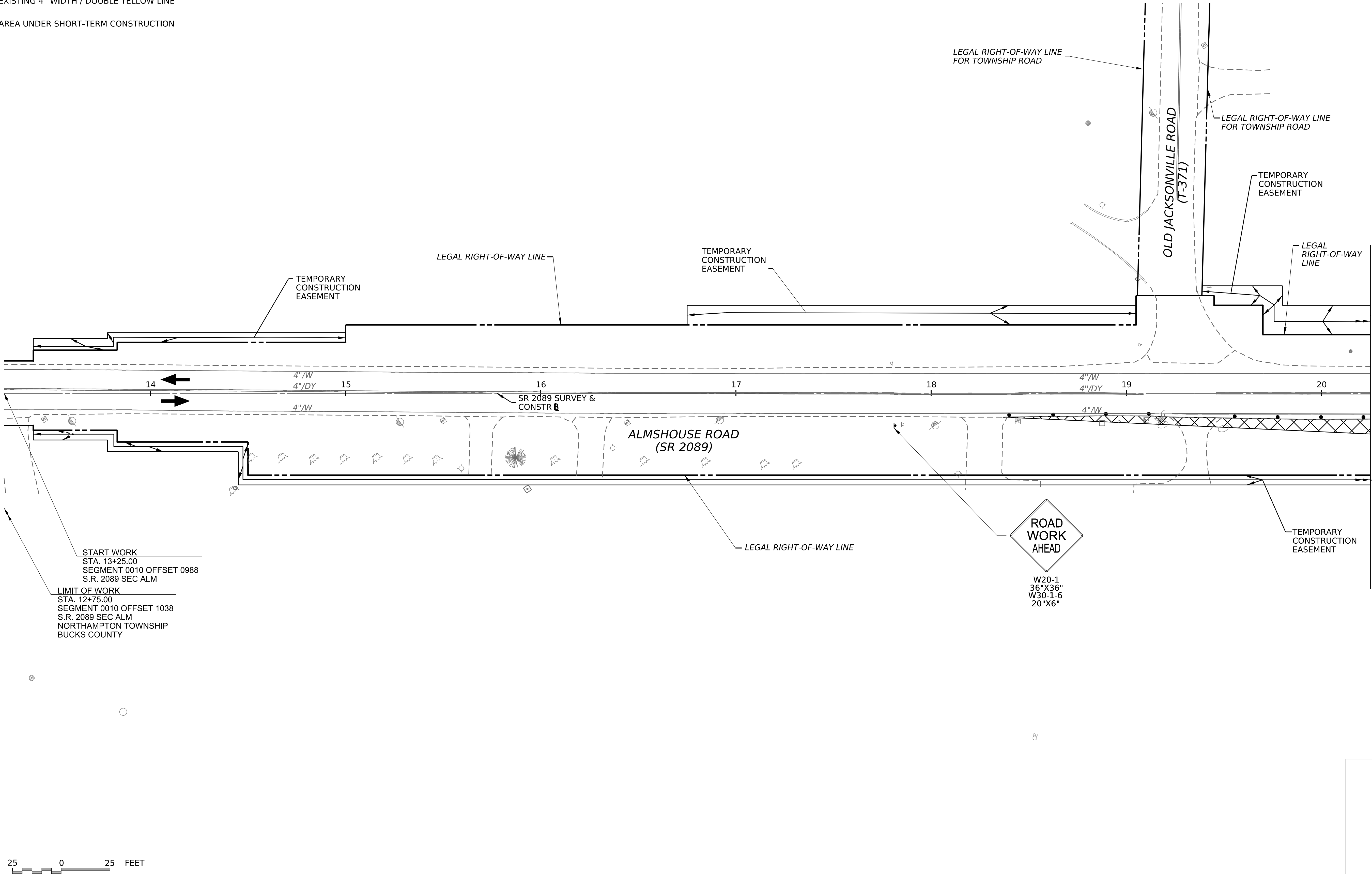


INDEX MAP
TRAFFIC CONTROL PLAN

DISTRICT	COUNTY	ROUTE	SECTION	SHEET		
6-0	BUCKS	2089	ALM	3 OF 24		
NORTHAMPTON TOWNSHIP						
REV NO	REVISIONS			DATE	BY	APPD

LEGEND

-  EXISTING SIGN LOCATION
-  TEMPORARY SIGN LOCATION MOUNTED ON TYPE III BARRICADE
-  TRAFFIC FLOW
-  EXISTING 4" WIDTH / SOLID WHITE LINE
-  EXISTING 4" WIDTH / DOUBLE YELLOW LINE
-  AREA UNDER SHORT-TERM CONSTRUCTION



DISTRICT	COUNTY	ROUTE	SECTION	SHEET		
6-0	BUCKS	2089	ALM	4 OF 24		
NORTHAMPTON TOWNSHIP						
REV NO	REVISIONS			DATE	BY	APPD

LEGEND

- 

EXISTING SIGN LOCATION
PROPOSED SIGN LOCATION MOUNTED ON TYPE III BARRICADE
TRAFFIC FLOW
- 

24"/W
EXISTING 24" WIDTH / SOLID WHITE LINE
- 

4"/W
EXISTING 4" WIDTH / SOLID WHITE LINE
- 

4"/DY
EXISTING 4" WIDTH / DOUBLE YELLOW LINE
- 

WORK ZONE - SHORT TERM STATIONARY OPERATIONS
- 

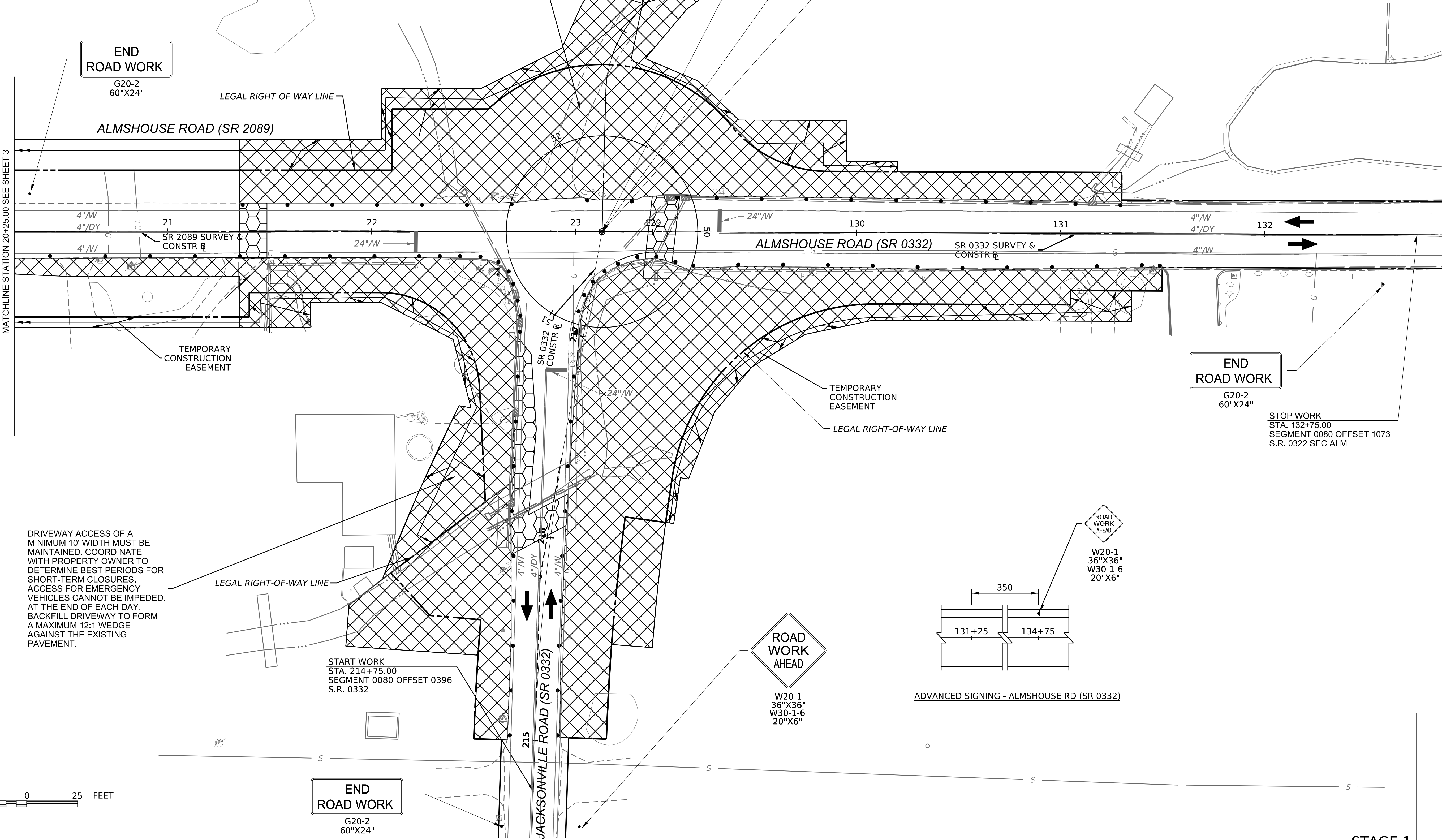
WORK ZONE - DETOUR

DRIVEWAY ACCESS OF A MINIMUM 10' WIDTH MUST BE MAINTAINED. COORDINATE WITH PROPERTY OWNER TO DETERMINE BEST PERIODS FOR SHORT-TERM CLOSURES. ACCESS FOR EMERGENCY VEHICLES CANNOT BE IMPEDED. AT THE END OF EACH DAY, BACKFILL DRIVEWAY TO FORM A MAXIMUM 12:1 WEDGE AGAINST THE EXISTING PAVEMENT.

TEMPORARY CONSTRUCTION EASEMENT

LIMIT OF WORK
STA. 23+13.05
SEGMENT 0010 OFFSET 0000
S.R. 2089 SEC ALM
NORTHAMPTON TOWNSHIP
BUCKS COUNTY

STOP WORK
STA. 23+13.05
SEGMENT 0010 OFFSET 0000
S.R. 2089 SEC ALM
SR 2089 STA 23+13.05
SEGMENT 0010 OFFSET 0000 =
SR 0322 STA 128+75.08
SEGMENT 0080 OFFSET 0696
SR 0322 STA 217+52.23
SEGMENT 0080 OFFSET 0696



STAGE 1
TRAFFIC CONTROL PLAN

DISTRICT	COUNTY	ROUTE	SECTION	SHEET		
6-0	BUCKS	2089	ALM	5 OF 24		
NORTHAMPTON TOWNSHIP						
REV NO	REVISIONS			DATE	BY	APPD

LEGEND

- EXISTING SIGN LOCATION

TEMPORARY SIGN LOCATION MOUNTED ON TYPE III BARRICADE

CHANNELIZING DEVICE

TRAFFIC FLOW
- 4"/W

4"/DY

4"/TW

4"/TDY

EXISTING 4" WIDTH / SOLID WHITE LINE

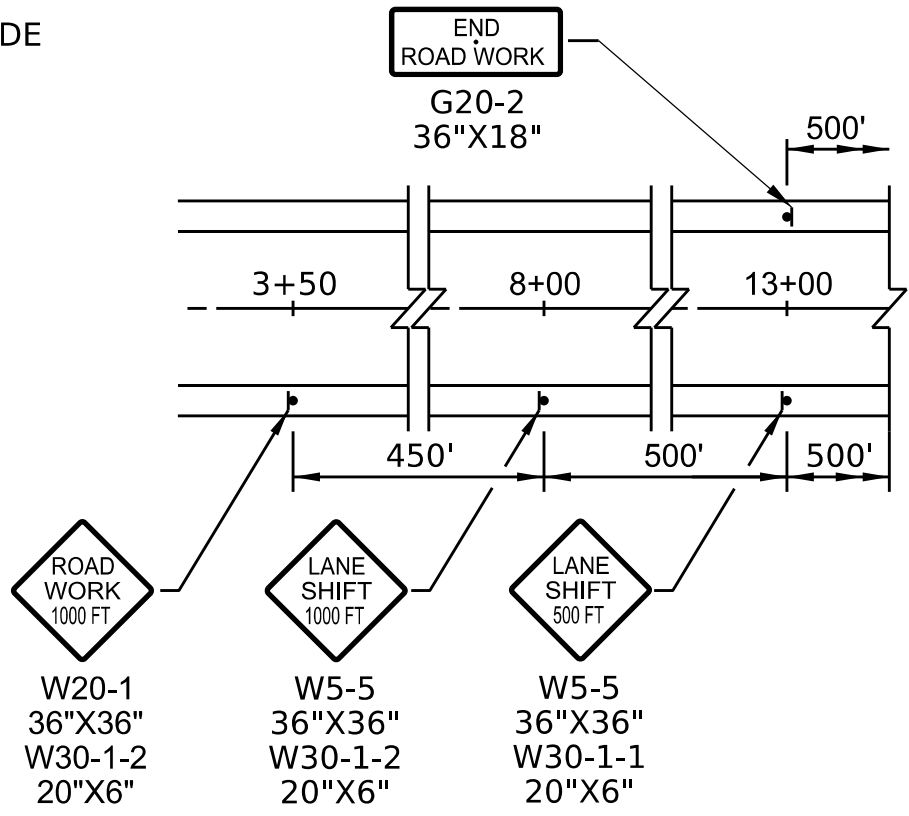
EXISTING 4" WIDTH / DOUBLE YELLOW LINE

TEMPORARY 4" WIDTH / SOLID WHITE LINE

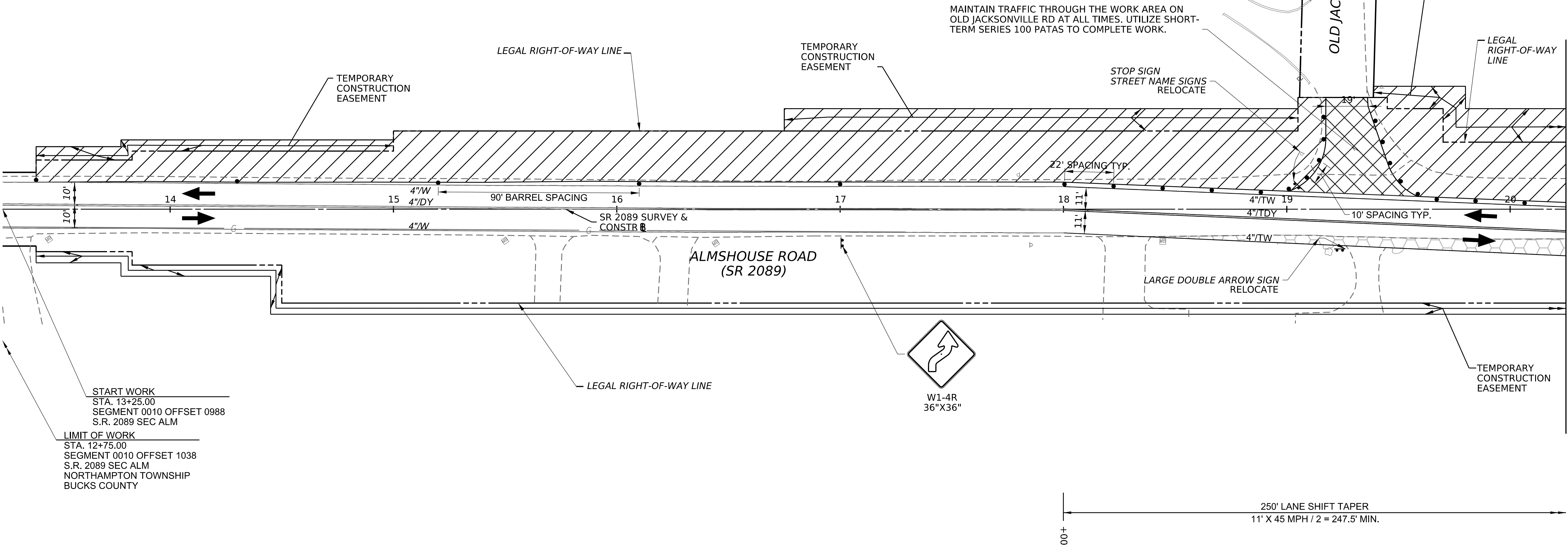
TEMPORARY 4" WIDTH / DOUBLE YELLOW LINE
- WORK ZONE - LONG TERM STATIONARY OPERATIONS

WORK ZONE - SHORT TERM STATIONARY OPERATIONS

TEMPORARY PAVEMENT



ADVANCED SIGNING - ALMSHOUSE RD (SR 2089)



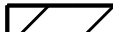
25 0 25 FEET

STAGE 2
TRAFFIC CONTROL PLAN

DISTRICT	COUNTY	ROUTE	SECTION	SHEET	
6-0	BUCKS	2089	ALM	6	OF 24
NORTHAMPTON TOWNSHIP					
REV NO	REVISIONS			DATE	BY APPD

LEGEND

- | | |
|---|--|
|  | EXISTING SIGN LOCATION |
|  | PROPOSED SIGN LOCATION MOUNTED ON TYPE III BARRICADE |
|  | CHANNELIZING DEVICE |
|  | TRAFFIC FLOW |
| | |
| 4"/W | EXISTING 4" WIDTH / SOLID WHITE LINE |
| 4"/DY | EXISTING 4" WIDTH / DOUBLE YELLOW LINE |
| 24"/W | EXISTING 24" WIDTH WHITE STOP BAR |
| 4"/TW | TEMPORARY 4" WIDTH / SOLID WHITE LINE |
| 4"/TDY | TEMPORARY 4" WIDTH / DOUBLE YELLOW LINE |
| 24"/TW | TEMPORARY 24" WIDTH WHITE STOP BAR |

- | | |
|---|--|
|  | WORK ZONE - LONG TERM STATIONARY OPERATIONS |
|  | WORK ZONE - SHORT TERM STATIONARY OPERATIONS |
|  | TEMPORARY PAVEMENT |

DRIVEWAY ACCESS OF A MINIMUM 10' WIDTH MUST BE MAINTAINED. COORDINATE WITH PROPERTY OWNER TO DETERMINE BEST PERIODS FOR SHORT-TERM CLOSURES. ACCESS FOR EMERGENCY VEHICLES CANNOT BE IMPEDED. AT THE END OF EACH DAY, BACKFILL DRIVEWAY TO FORM A MAXIMUM 12:1 WEDGE AGAINST THE EXISTING PAVEMENT.

LIMIT OF WORK
STA. 23+13.05
SEGMENT 0010 OFFSET 0000
S.R. 2089 SEC ALM
NORTHAMPTON TOWNSHIP
BUCKS COUNTY

STOP WORK
STA. 23+13.05
SEGMENT 0010 OFFSET 0000
S.R. 2089 SEC ALM
SR 2089 STA 23+13.05
SEGMENT 0010 OFFSET 0000 =
SR 0322 STA 128+75.08
SEGMENT 0080 OFFSET 0696
SR 0322 STA 217+52.23
SEGMENT 0080 OFFSET 0696

— CONSTRUCT TEMPORARY INLET ON MH-20.

250' LANE SHIFT TAPER

11' X 45 MPH / 2 = 247.5' MIN.

STOP WORK
STA. 132+75.00
SEGMENT 0080 OFFSET 1073
S.R. 0322 SEC ALM

CONSTRUCT INLET BOX UP TO EXISTING GRADE. PLACE STEEL PLATE OVER AND REOPEN LANE TO TRAFFIC.

ADVANCED SIGNING - ALMSHOUSE RD (SR 0332)

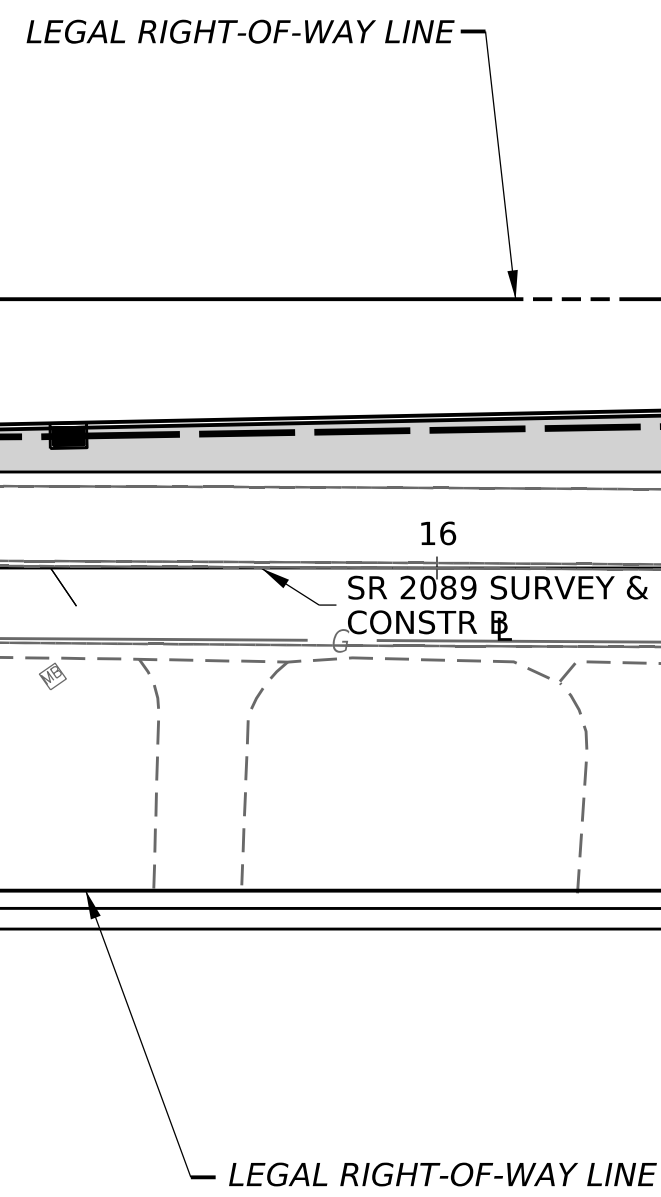
STAGE 2 TRAFFIC CONTROL PLAN

SEE SHEET 23 FOR TEMPORARY TRAFFIC SIGNAL PLAN

OPERATOR: kdisessa
FILE NAME: pw://tpd-pw.bentley.com:TPDProjectwise/Documents/Active/PA06/00469 - E04420 Jacksonville Rd and Almshouse Rd/CADD (ORD PA S Hwy)/TCP/MPT 01 -02.dgn

25 0 25 FEET

	WORK ZONE - LONG TERM STATIONARY OPERATIONS
	WORK ZONE - SHORT TERM STATIONARY OPERATIONS
	TEMPORARY PAVEMENT
	WORK COMPLETED IN PRIOR STAGE

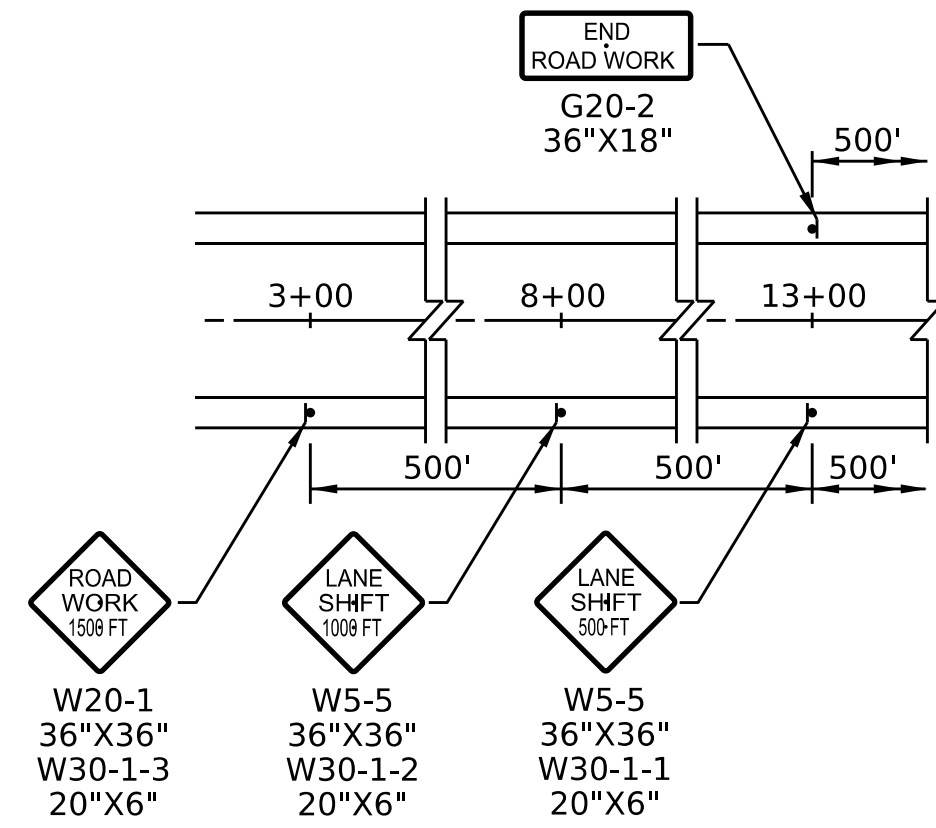
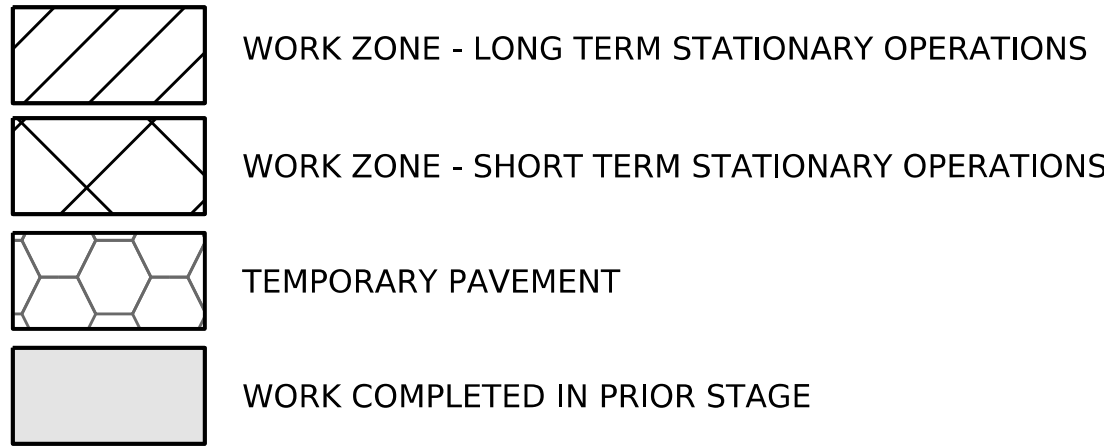
STAGE 3A
TRAFFIC CONTROL PLAN

	EXISTING SIGN LOCATION
	PROPOSED SIGN LOCATION MOUNTED ON TYPE III BARRICADE
	CHANNELIZING DEVICE
	TRAFFIC FLOW
4"/W	EXISTING 4" WIDTH / SOLID WHITE LINE
4"/DY	EXISTING 4" WIDTH / DOUBLE YELLOW LINE
24"/W	EXISTING 24" WIDTH WHITE STOP BAR
4"/TW	TEMPORARY 4" WIDTH / SOLID WHITE LINE
4"/TDY	TEMPORARY 4" WIDTH / DOUBLE YELLOW LINE
24"/TW	TEMPORARY 24" WIDTH WHITE STOP BAR

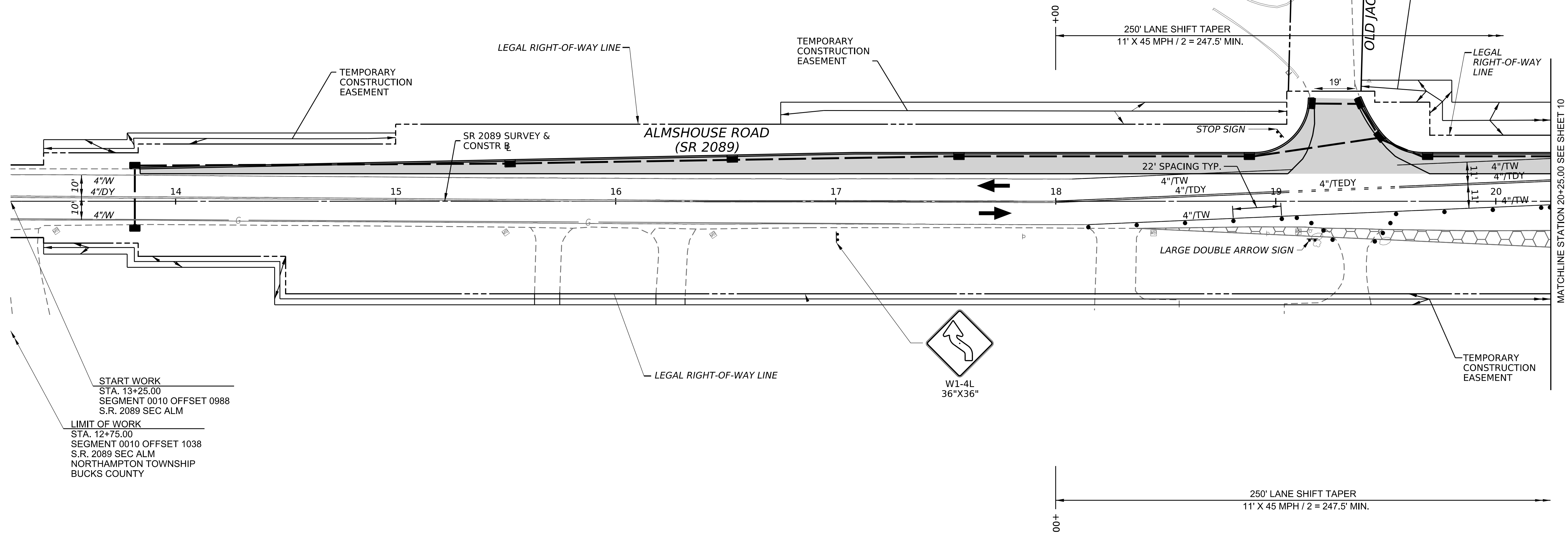
-
- ALMSHOUSE ROAD (SR 2089)
- 45' SPACING TYP.
- 4" TW
4" TY
- 11'
- 21
- 4" TY
4" TW
- 11'
- SR 2089 SURVEY
CONSTR. B
- W1-
36" X 12"
- MATCHLINE STATION 20+25.00 SEE SHEET 7

STAGE 3A
TRAFFIC CONTROL PLAN

	EXISTING SIGN LOCATION
	TEMPORARY SIGN LOCATION MOUNTED ON TYPE III BARRICADE
	CHANNELIZING DEVICE
	TRAFFIC FLOW
4"/W	EXISTING 4" WIDTH / SOLID WHITE LINE
4"/DY	EXISTING 4" WIDTH / DOUBLE YELLOW LINE
4"/TW	TEMPORARY 4" WIDTH / SOLID WHITE LINE
4"/TY	TEMPORARY 4" WIDTH / SOLID YELLOW LINE
4"/TDY	TEMPORARY 4" WIDTH / DOUBLE YELLOW LINE
4"/TEDY	TEMPORARY 4" WIDTH / DOUBLE YELLOW EXTENSION LINE



ADVANCED SIGNING - ALMSHOUSE RD (SR 2089)



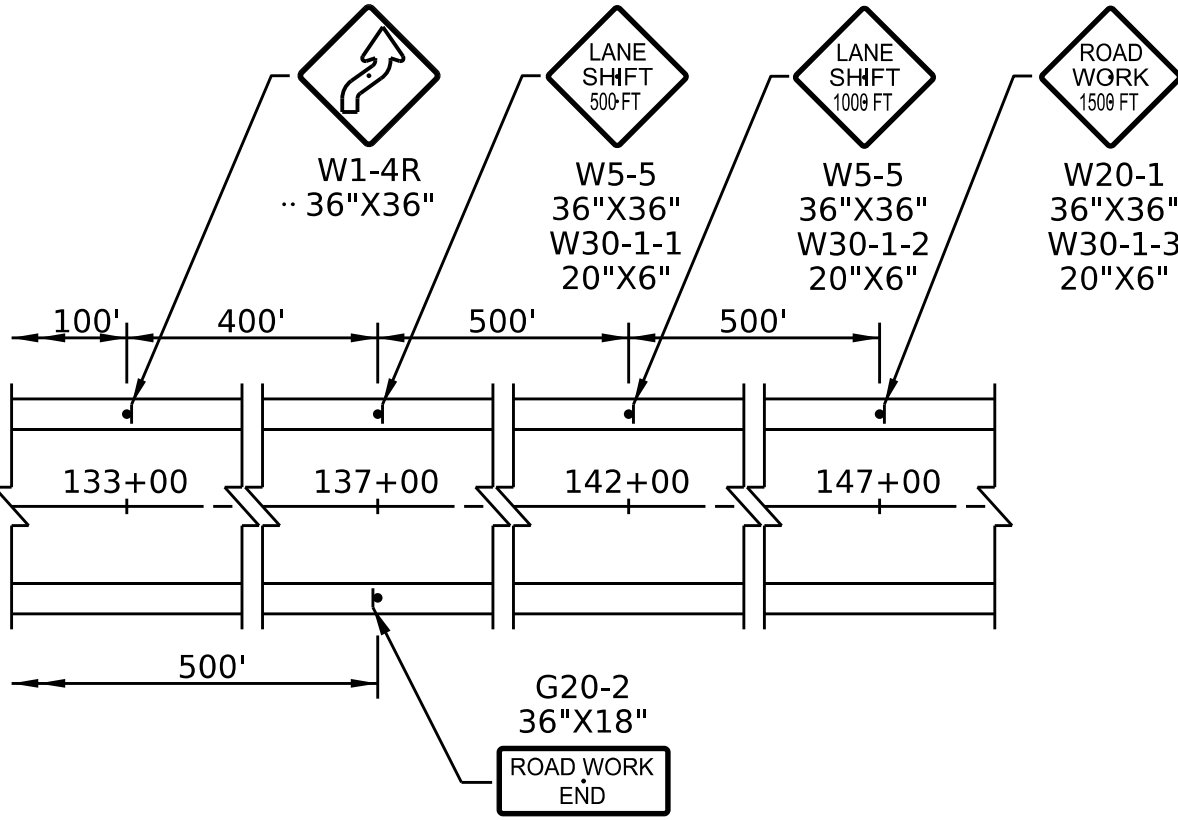
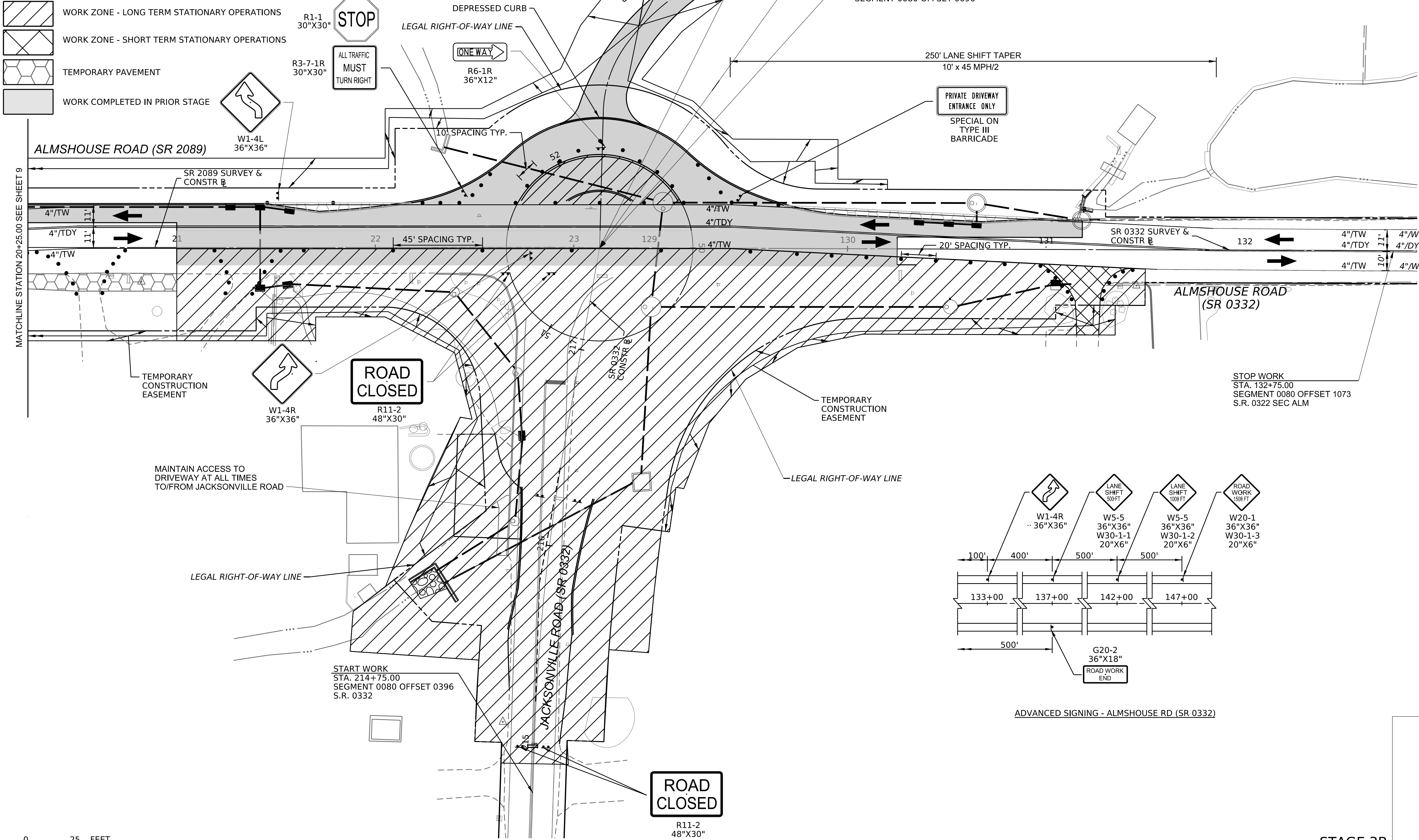
STAGE 3B TRAFFIC CONTROL PLAN

DISTRICT	COUNTY	ROUTE	SECTION	SHEET		
6-0	BUCKS	2089	ALM	10 OF 24		
NORTHAMPTON TOWNSHIP						
REV NO	REVISIONS			DATE	BY	APPD

LEGEND

- EXISTING SIGN LOCATION
- TEMPORARY SIGN LOCATION MOUNTED ON TYPE III BARRICADE
- CHANNELIZING DEVICE
- TRAFFIC FLOW
- 4"/W EXISTING 4" WIDTH / SOLID WHITE LINE
- 4"/DY EXISTING 4" WIDTH / DOUBLE YELLOW LINE
- 24"/W EXISTING 24" WIDTH WHITE STOP BAR
- 4"/TW TEMPORARY 4" WIDTH / SOLID WHITE LINE
- 4"/TDY TEMPORARY 4" WIDTH / DOUBLE YELLOW LINE
- 24"/TW TEMPORARY 24" WIDTH WHITE STOP BAR

- WORK ZONE - LONG TERM STATIONARY OPERATIONS
- WORK ZONE - SHORT TERM STATIONARY OPERATIONS
- TEMPORARY PAVEMENT
- WORK COMPLETED IN PRIOR STAGE



ADVANCED SIGNING - ALMSHOUSE RD (SR 0332)



SEE SHEET 17 FOR JACKSONVILLE ROAD DETOUR PLAN.

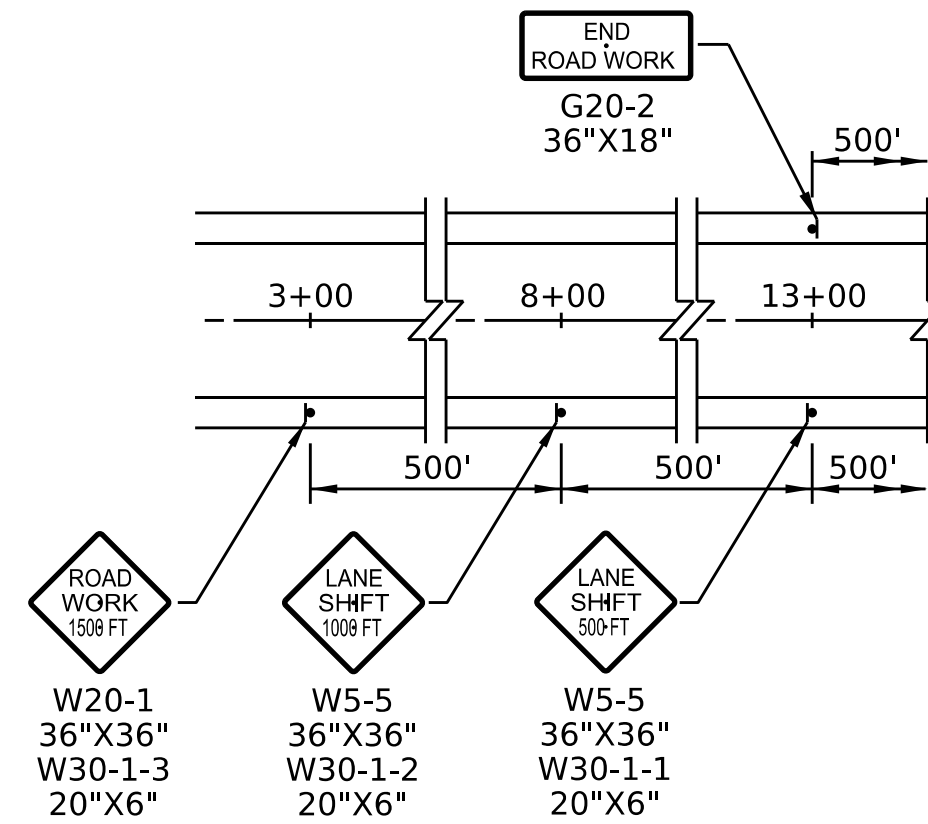
STAGE 3B
TRAFFIC CONTROL PLAN

DISTRICT	COUNTY	ROUTE	SECTION	SHEET		
6-0	BUCKS	2089	ALM	11	OF	24
NORTHAMPTON TOWNSHIP						
REV NO	REVISIONS			DATE	BY	APPD

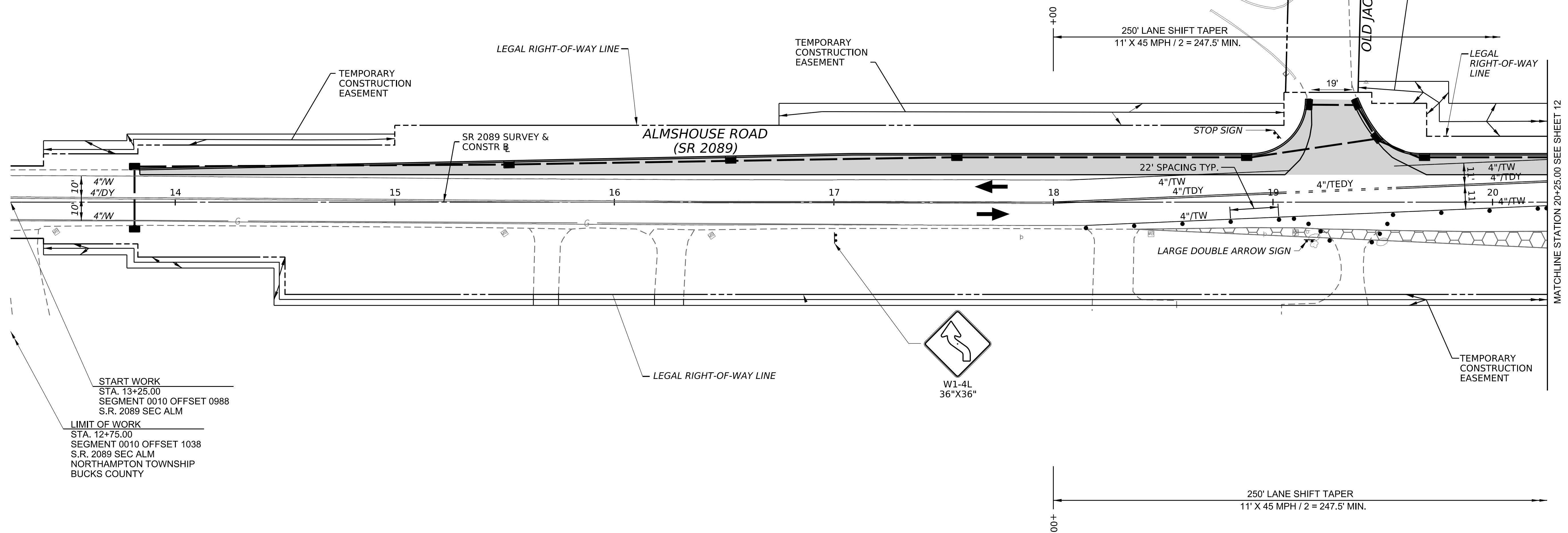
LEGEND

- | | |
|---|---|
|  | EXISTING SIGN LOCATION |
|  | TEMPORARY SIGN LOCATION MOUNTED ON TYPE III BARRICADE |
|  | CHANNELIZING DEVICE |
|  | TRAFFIC FLOW |
| | |
| 4"/W | EXISTING 4" WIDTH / SOLID WHITE LINE |
| 4"/DY | EXISTING 4" WIDTH / DOUBLE YELLOW LINE |
| 4"/TW | TEMPORARY 4" WIDTH / SOLID WHITE LINE |
| 4"/TY | TEMPORARY 4" WIDTH / SOLID YELLOW LINE |
| 4"/TDY | TEMPORARY 4" WIDTH / DOUBLE YELLOW LINE |
| 4"/TEDY | TEMPORARY 4" WIDTH / DOUBLE YELLOW EXTENSION LINE |

- | | |
|---|--|
|  | WORK ZONE - LONG TERM STATIONARY OPERATIONS |
|  | WORK ZONE - SHORT TERM STATIONARY OPERATIONS |
|  | TEMPORARY PAVEMENT |
|  | WORK COMPLETED IN PRIOR STAGE |



ADVANCED SIGNING - ALMSHOUSE RD (SR 2089)

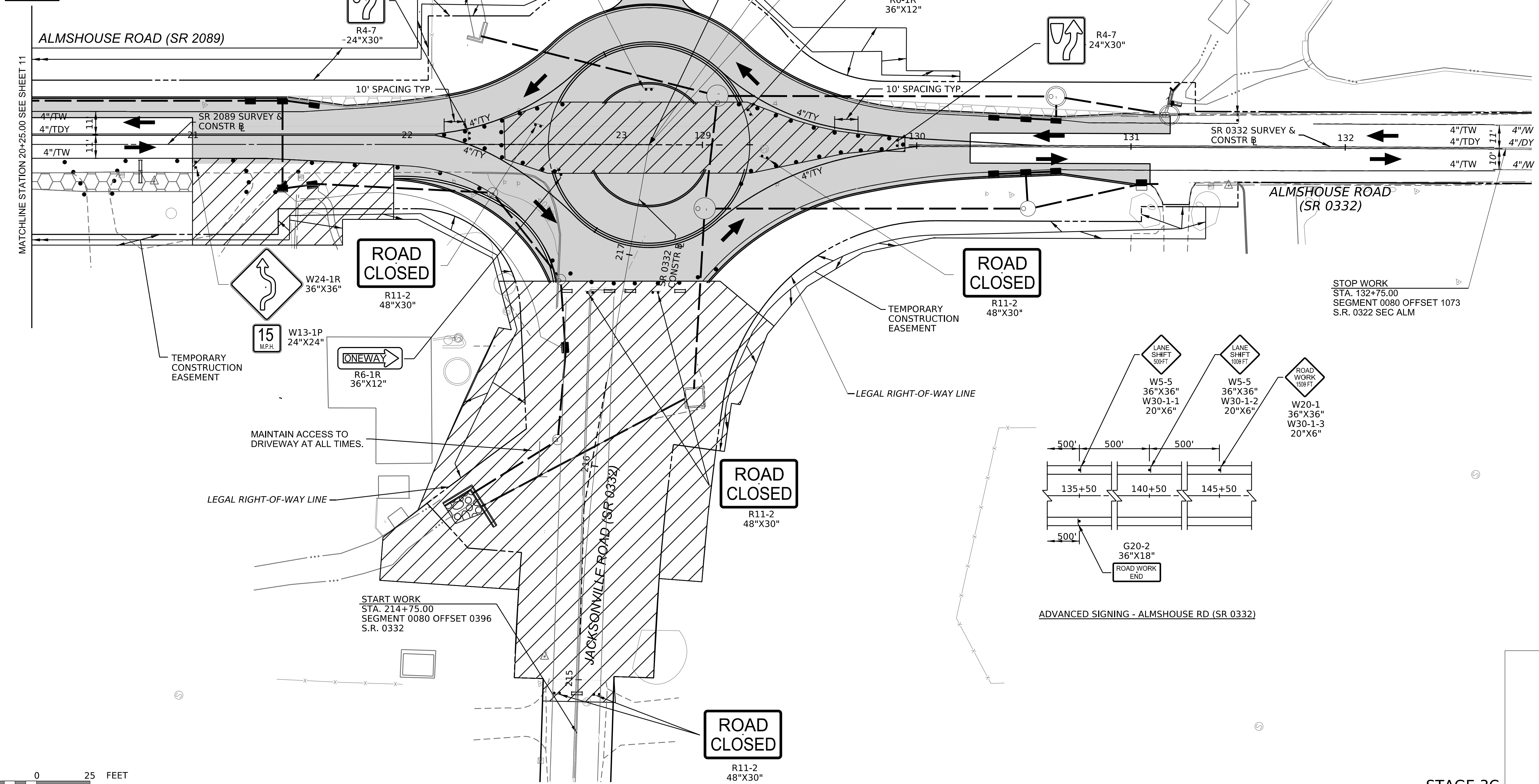
STAGE 3C
TRAFFIC CONTROL PLAN

DISTRICT	COUNTY	ROUTE	SECTION	SHEET	
6-0	BUCKS	2089	ALM	12 OF 24	
NORTHAMPTON TOWNSHIP					
REV NO	REVISIONS		DATE	BY	APPD

LEGEND

- | | |
|---|---|
|  | EXISTING SIGN LOCATION |
|  | TEMPORARY SIGN LOCATION MOUNTED ON TYPE III BARRICADE |
|  | CHANNELIZING DEVICE |
|  | TRAFFIC FLOW |
| | |
| 4"/W | EXISTING 4" WIDTH / SOLID WHITE LINE |
| 4"/DY | EXISTING 4" WIDTH / DOUBLE YELLOW LINE |
| 24"/W | EXISTING 24" WIDTH WHITE STOP BAR |
| 4"/TW | TEMPORARY 4" WIDTH / SOLID WHITE LINE |
| 4"/TDY | TEMPORARY 4" WIDTH / DOUBLE YELLOW LINE |
| 24"/TW | TEMPORARY 24" WIDTH WHITE STOP BAR |

- | | | |
|---|--|-------------|
|  | WORK ZONE - LONG TERM STATIONARY OPERATIONS | |
|  | WORK ZONE - SHORT TERM STATIONARY OPERATIONS | |
|  | TEMPORARY PAVEMENT | LEGAL RIGHT |
|  | WORK COMPLETED IN PRIOR STAGE | |



ADVANCED SIGNING - ALMSHOUSE RD (SR 0332)

STAGE 3C TRAFFIC CONTROL PLAN

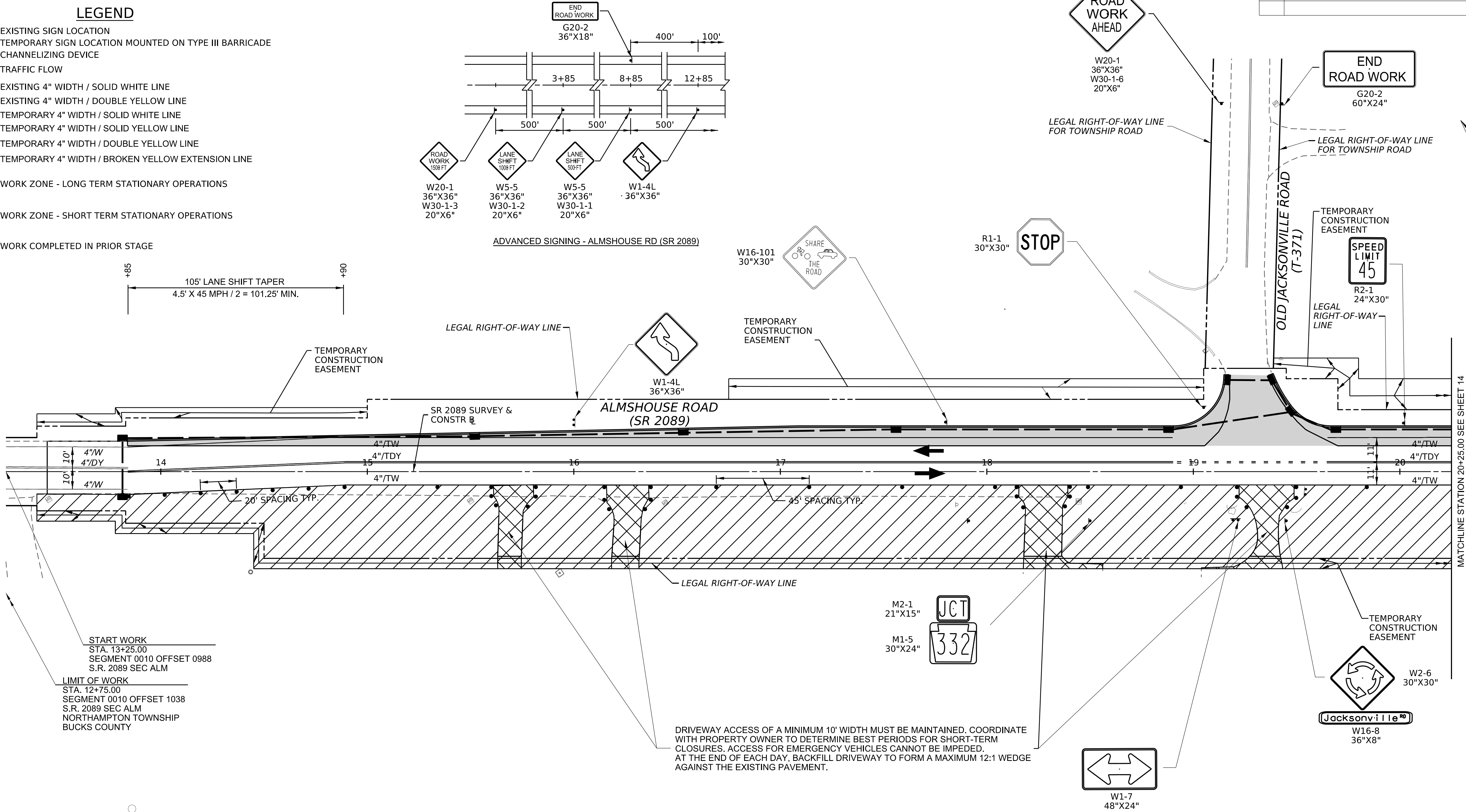
SEE SHEET 17 FOR JACKSONVILLE ROAD DETOUR PLAN.

DISTRICT	COUNTY	ROUTE	SECTION	SHEET		
6-0	BUCKS	2089	ALM	13 OF 24		
NORTHAMPTON TOWNSHIP						
REV NO	REVISIONS			DATE	BY	APPD

LEGEND

- EXISTING SIGN LOCATION
- TEMPORARY SIGN LOCATION MOUNTED ON TYPE III BARRICADE
- CHANNELIZING DEVICE
- TRAFFIC FLOW
- 4"/W EXISTING 4" WIDTH / SOLID WHITE LINE
- 4"/DY EXISTING 4" WIDTH / DOUBLE YELLOW LINE
- 4"/TW TEMPORARY 4" WIDTH / SOLID WHITE LINE
- 4"/TY TEMPORARY 4" WIDTH / SOLID YELLOW LINE
- 4"/TDY TEMPORARY 4" WIDTH / DOUBLE YELLOW LINE
- 4"/TEY TEMPORARY 4" WIDTH / BROKEN YELLOW EXTENSION LINE

- WORK ZONE - LONG TERM STATIONARY OPERATIONS
- WORK ZONE - SHORT TERM STATIONARY OPERATIONS
- WORK COMPLETED IN PRIOR STAGE



STAGE 4
TRAFFIC CONTROL PLAN

W2-6
30"X30"

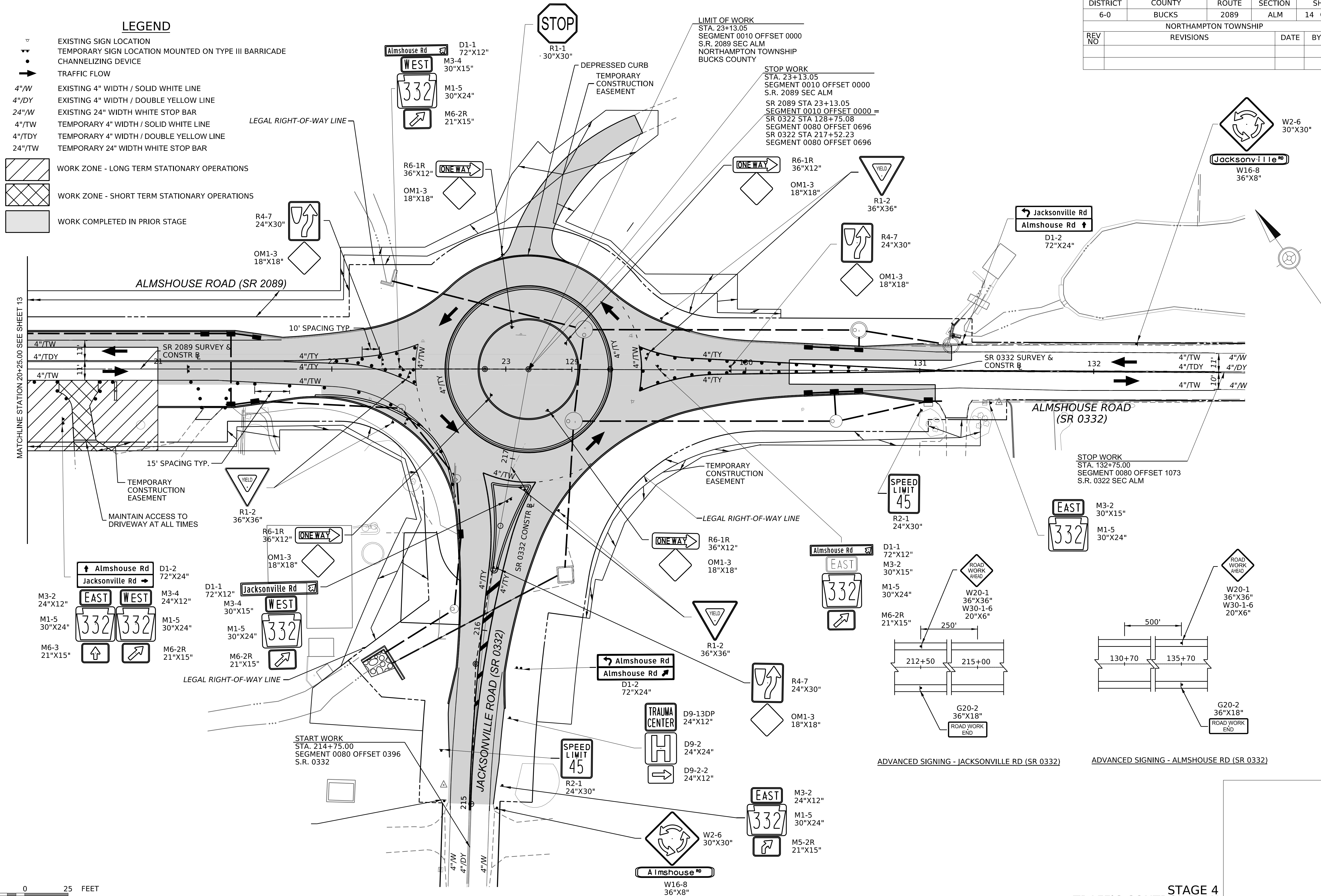
Jacksonville RD

W16-8
36"X8"

	EXISTING SIGN LOCATION	
	TEMPORARY SIGN LOCATION MOUNTED ON TYPE III BARRICADE	
	CHANNELIZING DEVICE	
	TRAFFIC FLOW	
4"/W	EXISTING 4" WIDTH / SOLID WHITE LINE	
4"/DY	EXISTING 4" WIDTH / DOUBLE YELLOW LINE	
24"/W	EXISTING 24" WIDTH WHITE STOP BAR	
4"/TW	TEMPORARY 4" WIDTH / SOLID WHITE LINE	LEGAL RIGHT-OF-WAY
4"/TDY	TEMPORARY 4" WIDTH / DOUBLE YELLOW LINE	
24"/TW	TEMPORARY 24" WIDTH WHITE STOP BAR	

- Legend for Work Zone types:

 - WORK ZONE - LONG TERM STATIONARY OPERATIONS (Diagonal lines)
 - WORK ZONE - SHORT TERM STATIONARY OPERATIONS (Cross-hatch pattern)
 - WORK COMPLETED IN PRIOR STAGE (Solid grey)

STAGE 4
TRAFFIC CONTROL PLAN

DISTRICT	COUNTY	ROUTE	SECTION	SHEET		
6-0	BUCKS	2089	ALM	15 OF 24		
NORTHAMPTON TOWNSHIP						
REV NO	REVISIONS			DATE	BY	APPD

LEGEND

- •

→

EXISTING SIGN LOCATION

TEMPORARY SIGN LOCATION MOUNTED ON TYPE III BARRICADE

CHANNELIZING DEVICE

TRAFFIC FLOW
- 4"/W

4"/DY

4"/TW

4"/TY

4"/TDY

4"/TEY

EXISTING 4" WIDTH / SOLID WHITE LINE

EXISTING 4" WIDTH / DOUBLE YELLOW LINE

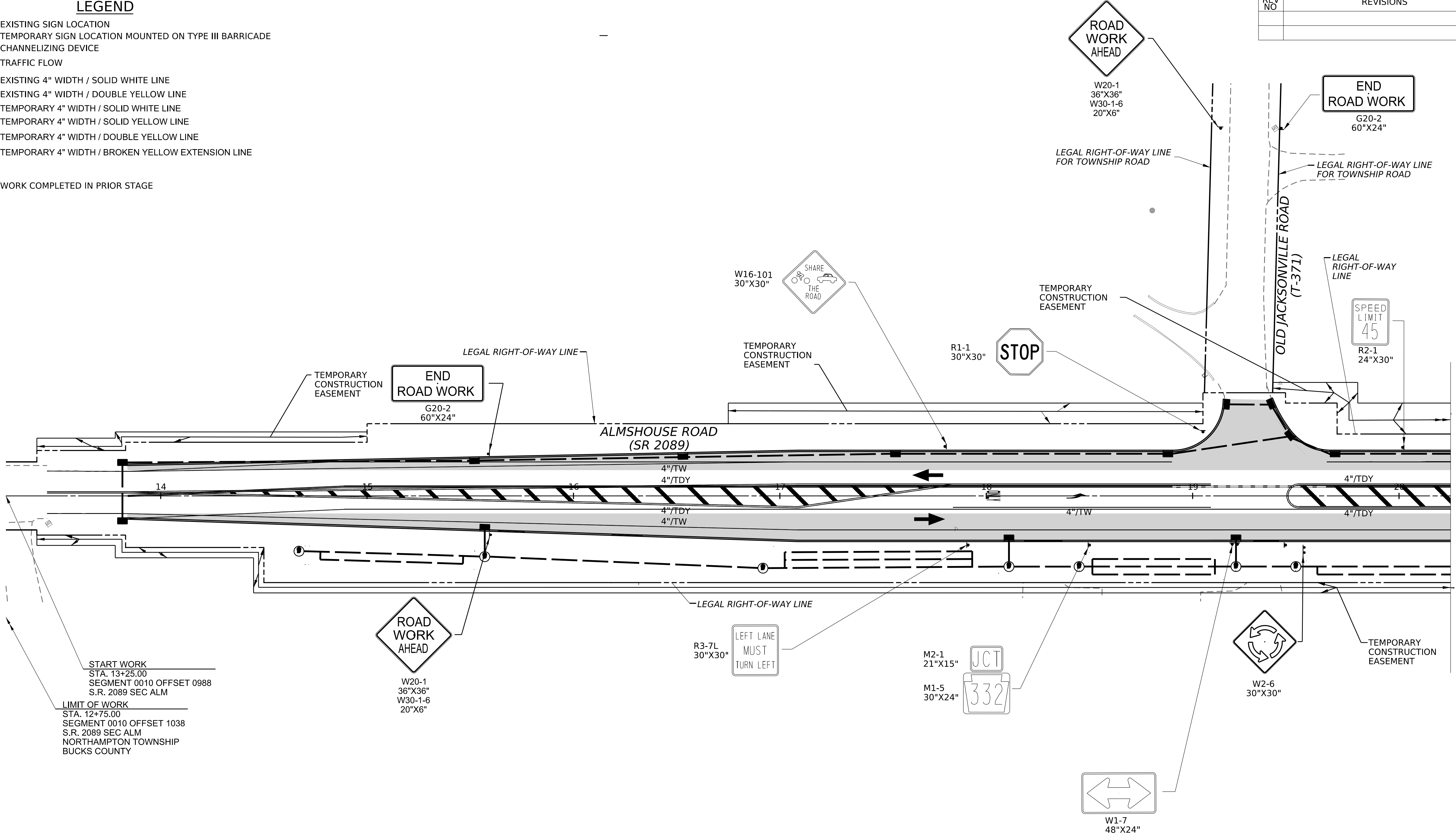
TEMPORARY 4" WIDTH / SOLID WHITE LINE

TEMPORARY 4" WIDTH / SOLID YELLOW LINE

TEMPORARY 4" WIDTH / DOUBLE YELLOW LINE

TEMPORARY 4" WIDTH / BROKEN YELLOW EXTENSION LINE

WORK COMPLETED IN PRIOR STAGE



STAGE 5 TRAFFIC CONTROL PLAN

AREA UNDER SHORT-TERM CONSTRUCTION

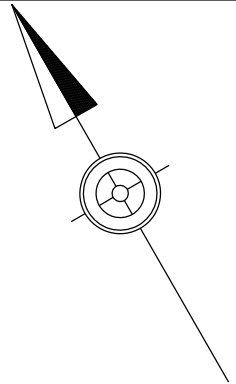
TEMPORARY PAVEMENT

WORK COMPLETED IN PRIOR STAGE

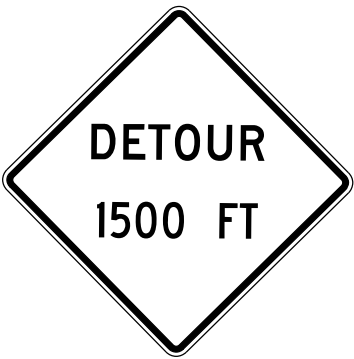
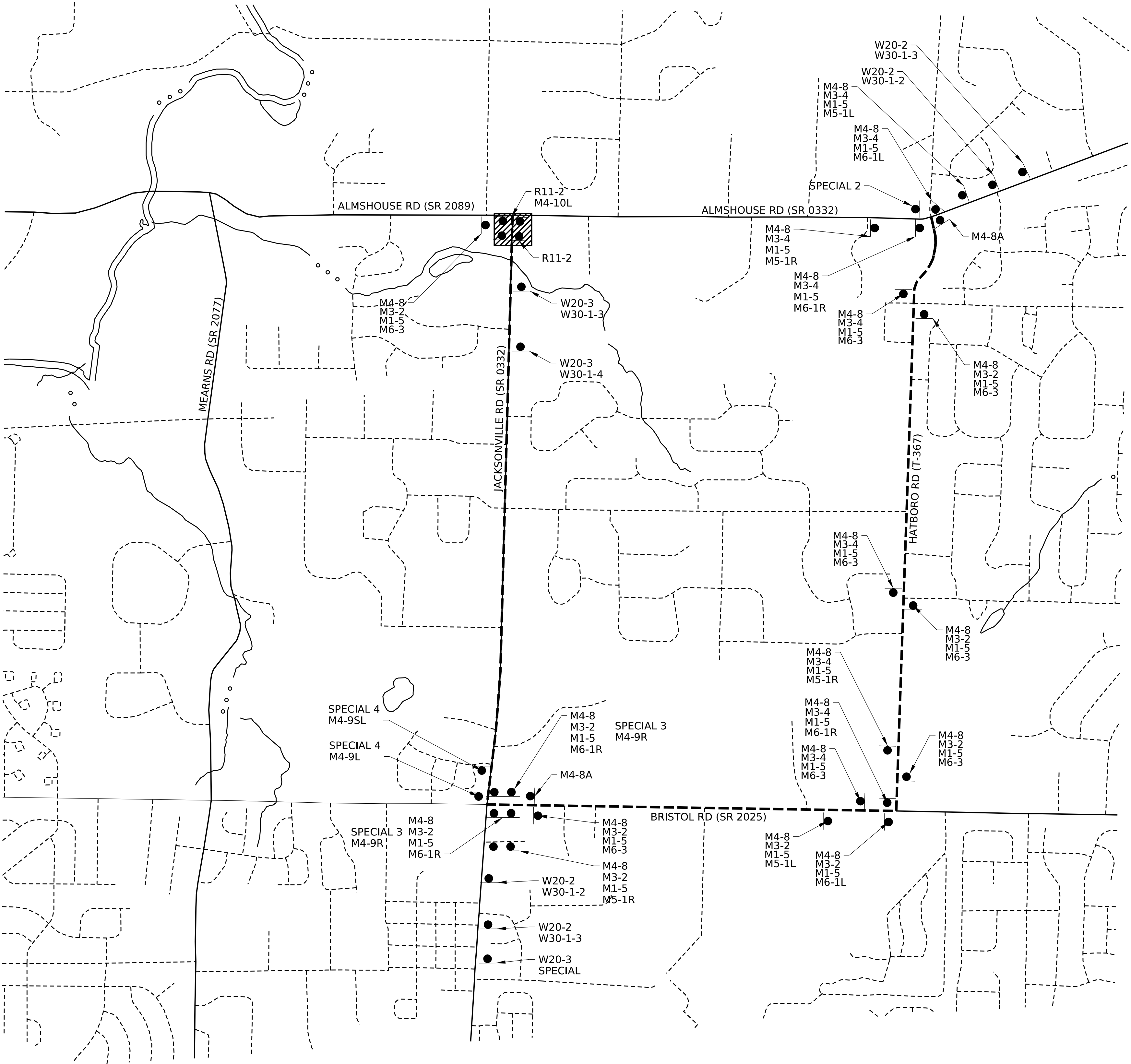


LEGEND

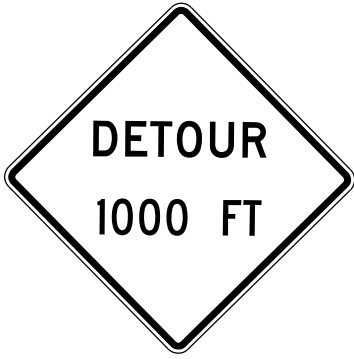
- DETOUR ROUTE
- SIGN(S)
- SIGN(S) ON TYPE III BARRICADE
- STATE ROAD
- - - MUNICIPAL & OTHER ROADS
- ▨ WORK AREA



DISTRICT	COUNTY	ROUTE	SECTION	SHEET		
6-0	BUCKS	2089	ALM	17 OF 24		
NORTHAMPTON TOWNSHIP						
REV NO	REVISIONS			DATE	BY	APPD



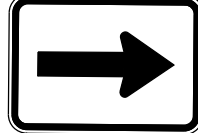
W20-2
36"X36"
W30-1-3
30"X10"



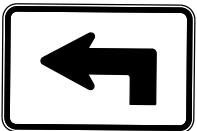
W20-2
36"X36"
W30-1-2
30"X10"



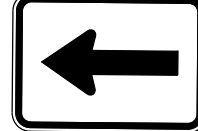
M5-1R
21"X15"



M6-1R
21"X15"



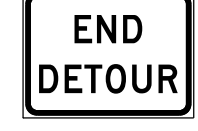
M5-1L
21"X15"



M6-1L
21"X15"



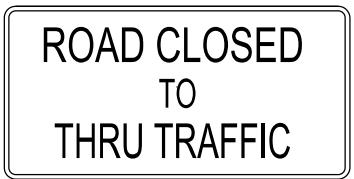
M6-3
21"X15"



M4-8A
24"X18"



M4-10L
48"X24"



R11-4
60"X30"



M4-9L
30"X24"



M4-9SL
30"X24"



W20-3
36"X36"
SPECIAL
30"X10"



W20-3
36"X36"
W30-1-4
30"X10"



M4-9SR
30"X24"



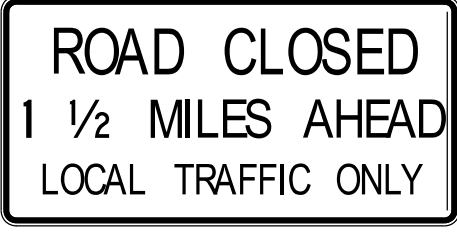
M4-9R
30"X24"



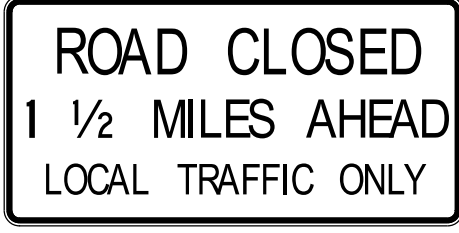
W20-3
36"X36"
W30-1-3
30"X10"



R11-2
48"X30"



R11-3A
60"X30"
M4-10R
48"X24"



R11-3A
60"X30"
M4-10L
48"X24"



332

M4-8
24"X12"
M3-2
24"X12"
M1-5
30"X24"

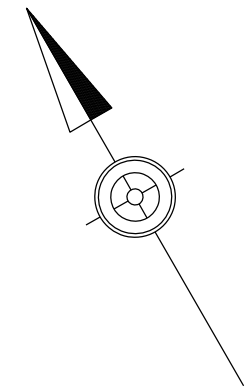
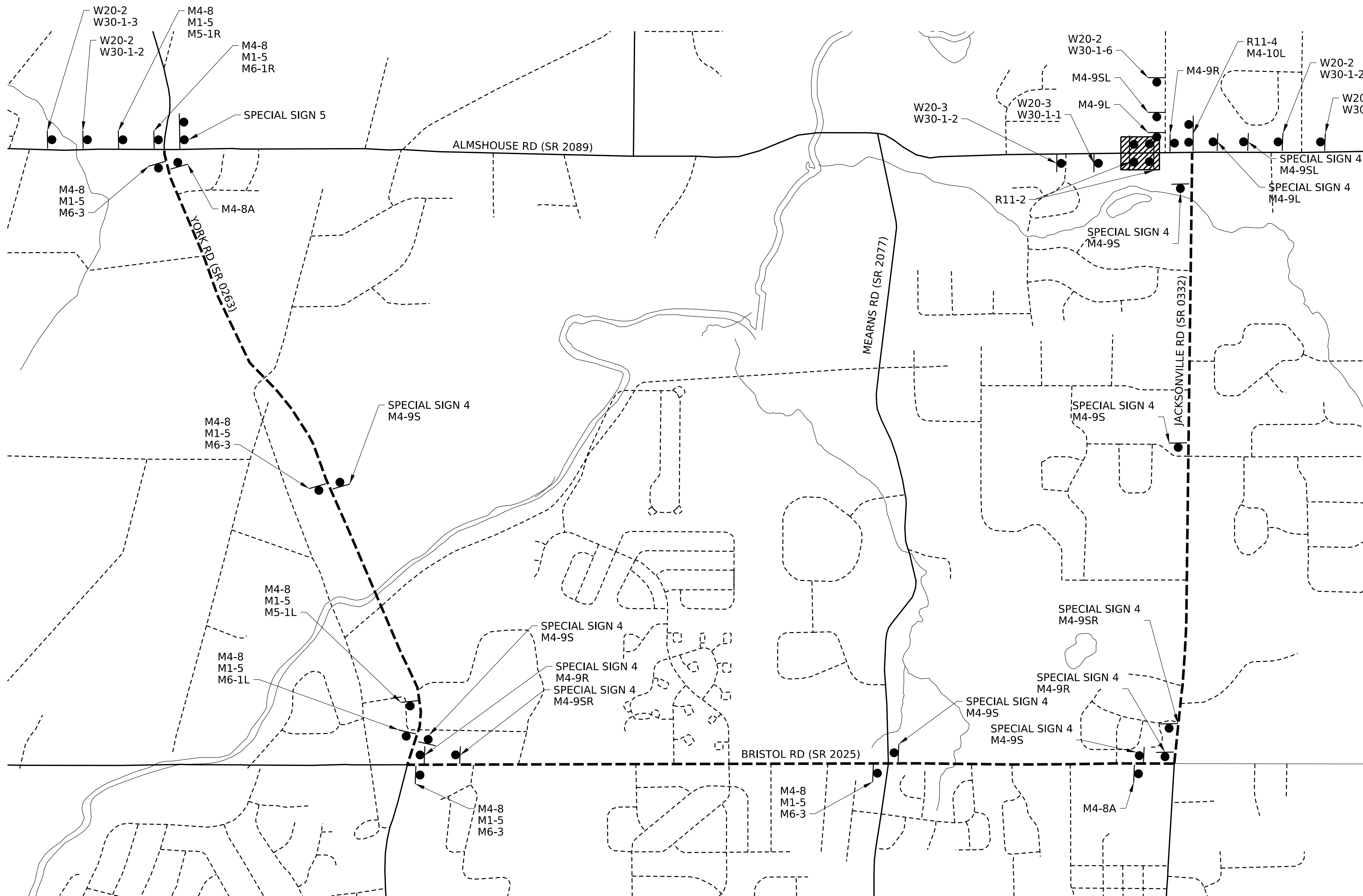


332

M4-8
24"X12"
M3-4
24"X12"
M1-5
30"X24"

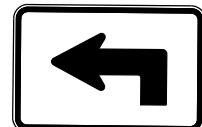
DISTRICT		COUNTY	ROUTE	SECTION	SHEET	
6-0		BUCKS	2089	ALM	19 OF 24	
NORTHAMPTON TOWNSHIP						
REV NO	REVISIONS			DATE	BY	APPD

	DETOUR ROUTE
	SIGN(S)
	SIGN(S) ON TYPE III BARRICADE
	STATE ROAD
	MUNICIPAL & OTHER ROADS
	WORK AREA



DETOUR
1500 FT

W20-2
36"X36"
W30-1-3
30"X10"



M5-1L
21"X15"

ROAD CLOSED
TO
THRU TRAFFIC

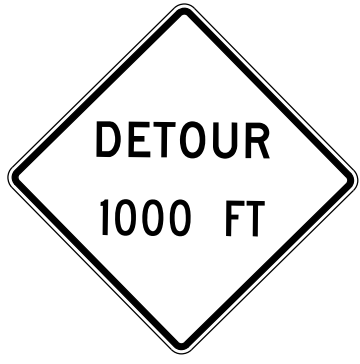
R11-4
60"X30"



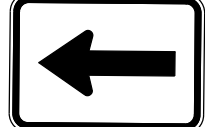
W20-3
36"X36"
W30-1-2
30"X10"



M4-8
24"X12"
M1-5
30"X24"



W20-2
36"X36"
W30-1-2
30"X10"



M6-1L
21"X15"



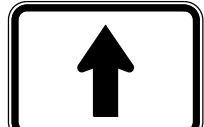
M4-9R
30"X24"



W20-3
36"X36"
W30-1-1
30"X10"



M5-1R
21"X15"



M6-3
21"X15"



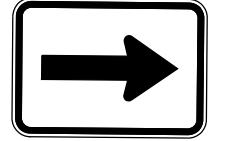
M4-9SL
30"X24"



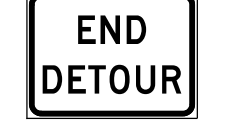
W20-2
36"X36"
W30-1-6
30"X10"



M4-10R
48"X18"



M6-1R
21"X15"



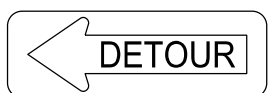
M4-8A
24"X18"



M4-9L
30"X24"



R11-2
48"X30"



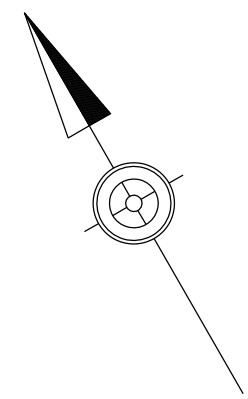
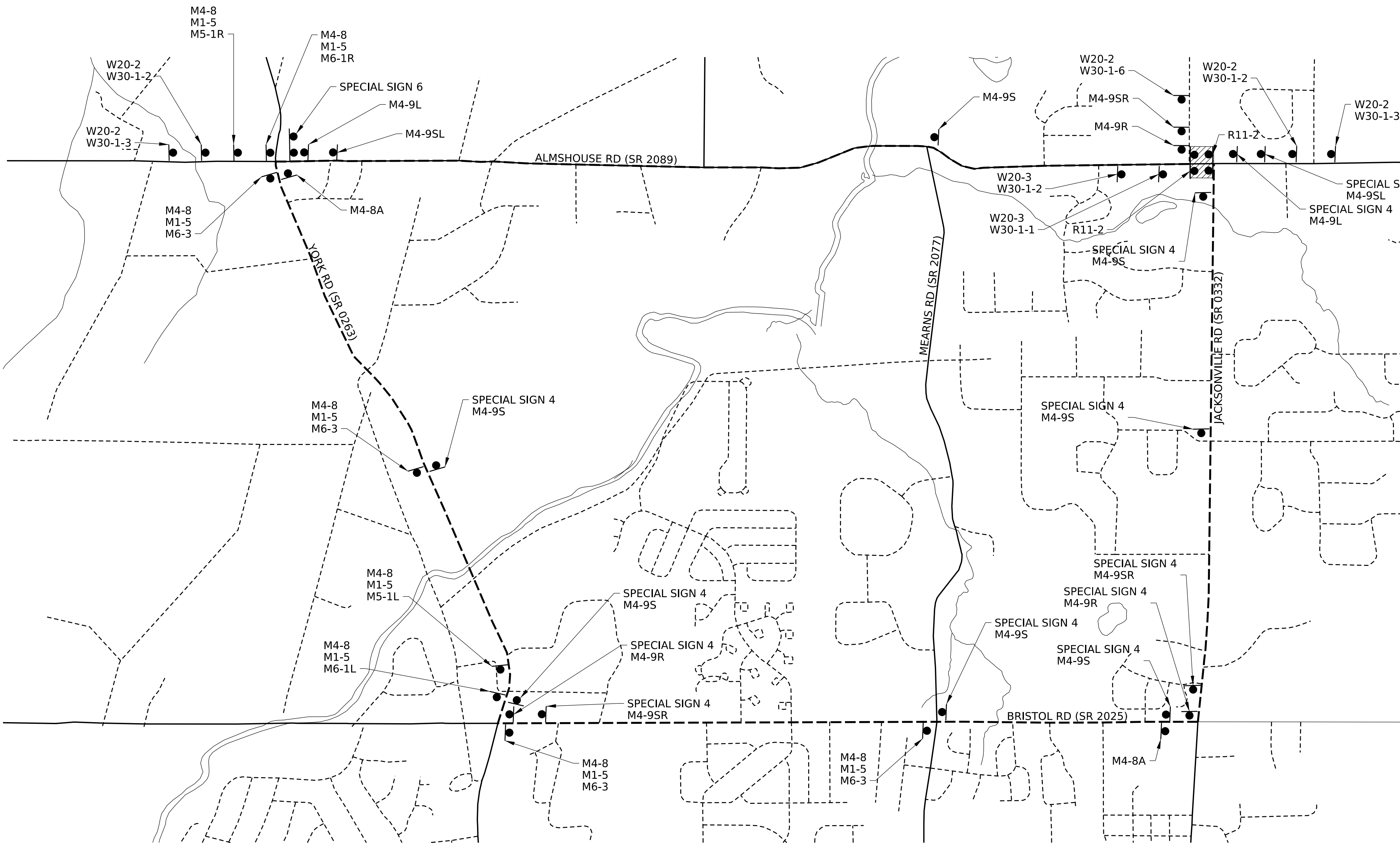
M4-10L
48"X18"

STAGE 1 DETOUR TRAFFIC CONTROL PLAN

FOR SPECIAL SIGN DETAILS SEE SHEET 21

DISTRICT	COUNTY	ROUTE	SECTION	SHEET		
6-0	BUCKS	2089	ALM	20 OF 24		
NORTHAMPTON TOWNSHIP						
REV NO	REVISIONS			DATE	BY	APPD

	DETOUR ROUTE
	SIGN(S)
	SIGN(S) ON TYPE III BARRICADE
	STATE ROAD
	MUNICIPAL & OTHER ROADS
	WORK AREA



DETOUR
1500 FT

W20-2
36"X36"
W30-1-3
30"X10"



M5-1L
21"X15"



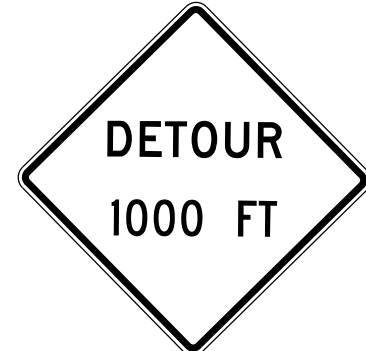
M4-9SR
30"X24"



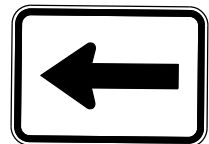
W20-3
36"X36"
W30-1-2
30"X10"



M4-8
24"X12"
M1-5
30"X24"



W20-2
36"X36"
W30-1-2
30"X10"



M6-1L
21"X15"



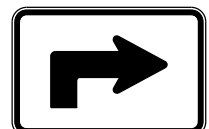
M4-9R
30"X24"



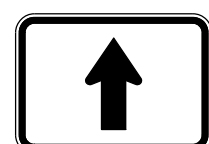
W20-3
36"X36"
W30-1-1
30"X10"



M4-9S
30"X24"



M5-1R
21"X15"



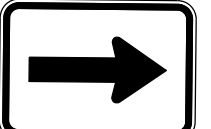
M6-3
21"X15"



M4-9SL
30"X24"



W20-2
36"X36"
W30-1-6
30"X10"



M6-1R
21"X15"



M4-8A
24"X18"



M4-9L
30"X24"



R11-2
48"X30"

STAGE 1 DETOUR TRAFFIC CONTROL PLAN

FOR SPECIAL SIGN DETAILS SEE SHEET 21

SFLELS
SDATES

\$TIMES

\$USERS

Traffic Planning and Design, Inc.

SIGN TABULATION			
PLAN SYMBOL	SERIES	SIZE	DESCRIPTION
	R10-12	30"x36"	LEFT TURN YIELD ON GREEN ●
	W1-7	48"x24"	LARGE DOUBLE ARROW
	R9-3	18"x18"	NO PEDESTRIAN CROSSING
	R10-6L	24"x30"	STOP HERE ON RED
	W3-3	30"x30"	SIGNAL AHEAD
	R10-11	30"x36"	NO TURN ON RED
	R10-11	24"x30"	NO TURN ON RED
	OM1-3	18"x18"	OBJECT MARKER

EMERGENCY PRE-EMPTION NOTES:

- CONTROLLER TO BE EQUIPPED WITH EMERGENCY PRE-EMPTION FOR THE NORTHBOUND APPROACH OF JACKSONVILLE ROAD (SR 0332) AND THE EASTBOUND AND WESTBOUND APPROACHES OF ALMSHOUSE ROAD (SR 0332/SR 2089) WITH A FAIL SAFE DEVICE FOR EACH DIRECTION OF OPERATION. THIS EMERGENCY BEACON SHALL CONSIST OF A FLASHING WHITE FLOOD LIGHT, AND SHALL FLASH WHEN THE EMERGENCY VEHICLE HAS CONTROL OF THE INTERSECTION FOR THE APPROPRIATE APPROACH.
- THE SIGNALS, WHEN ACTIVATED BY EMERGENCY VEHICLE, SHALL TERMINATE ALL GREEN INDICATIONS IMMEDIATELY, FOLLOWED BY THE COMPLETE YELLOW AND RED CLEARANCE INTERVALS, ACCORDINGLY. THEN THE GREEN INTERVAL FOR THE PRE-EMPTION PHASE SHALL FOLLOW. ONLY THOSE PHASES NOT POSING A YELLOW TRAP CONDITION MAY REMAIN GREEN (4) WHEN GOVERNED BY APPROACHING EMERGENCY VEHICLE.
- THE SIGNALS, WHEN ACTIVATED BY EMERGENCY VEHICLE SHALL TIME OUT ALL YELLOW AND RED INDICATIONS, FOLLOWED BY THE GREEN INTERVAL OF THE PRE-EMPTION PHASE GOVERNED BY THE APPROACHING EMERGENCY VEHICLE.
- IF THE SIGNALS, WHEN ACTIVATED BY AN EMERGENCY VEHICLE, ARE FLASHING, ALL SIGNALS SHALL REMAIN FLASHING.
- IF ADDITIONAL PRE-EMPTION PHASES ARE ACTIVATED WHILE IN PRE-EMPTION, THE ORIGINAL PRE-EMPTION PHASE SHALL TIME OUT BEFORE PROCEEDING TO THE NEXT PRE-EMPTION PHASE.
- UPON COMPLETION OF PRE-EMPTION PHASE 2,4 OR 6, IN RETURNING TO NORMAL OPERATION, PHASE 2+6 INTERVAL 4 SHALL FOLLOW.
- IN EMERGENCY PRE-EMPTION, NO PRIORITY SHALL BE ESTABLISHED. PRE-EMPTION SHALL BE A "FIRST COME, FIRST SERVE" OPERATION.
- LOCATION OF EMERGENCY VEHICLE DETECTORS ARE TO BE FIELD ADJUSTED TO ACHIEVE MAXIMUM OPERATION.

EMERGENCY PRE-EMPTION PHASING MOVEMENT, SEQUENCE, AND TIMING DIAGRAM

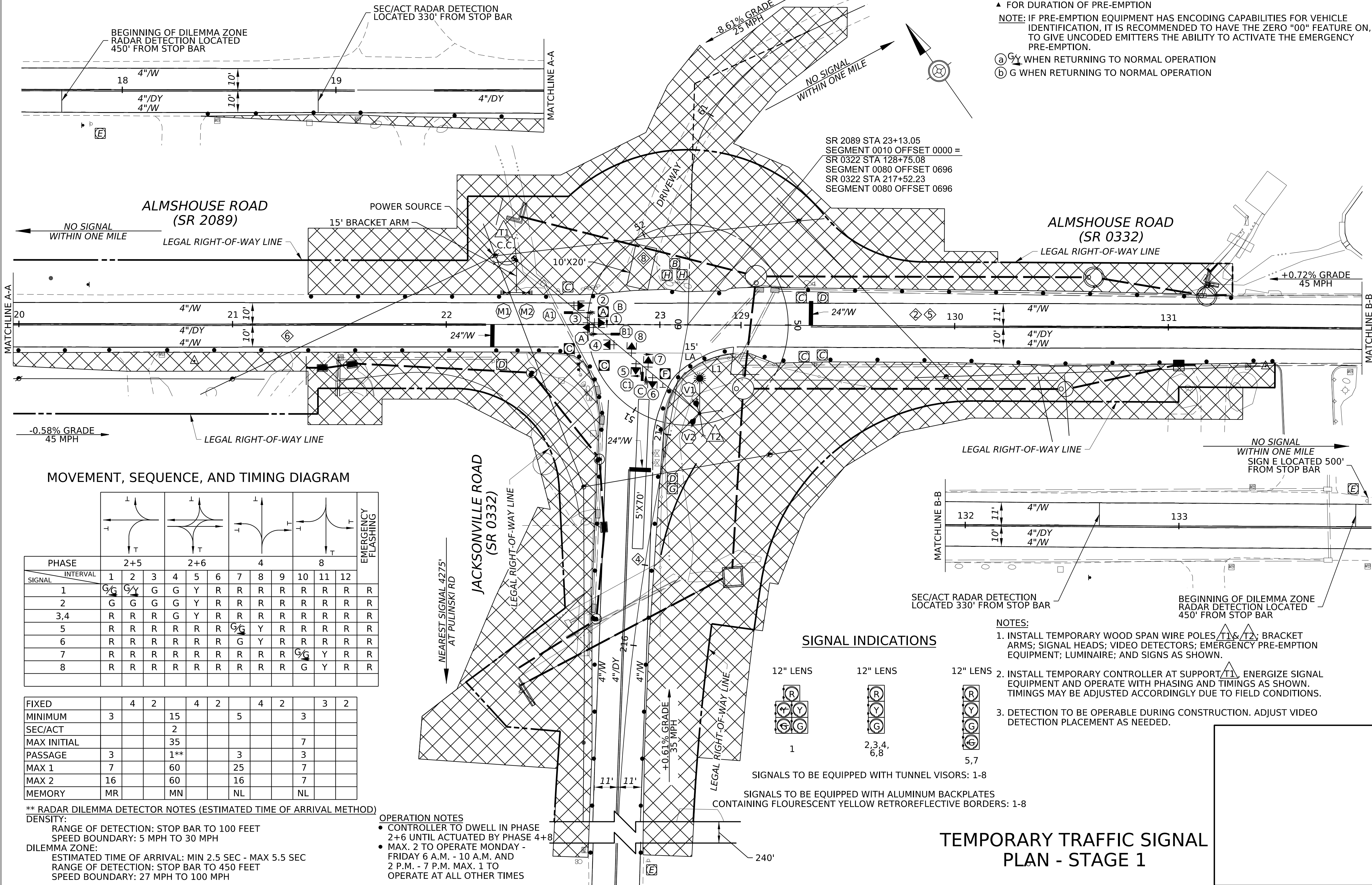
PHASE		2			4			6		
INTERVAL		13	14	15	16	17	18	19	20	21
SIGNAL		1								
2										
3,4										
5										
6										
7										
8										
FIXED			4	2		4	2		4	2

▲ FOR DURATION OF PRE-EMPTION

NOTE: IF PRE-EMPTION EQUIPMENT HAS ENCODING CAPABILITIES FOR VEHICLE IDENTIFICATION, IT IS RECOMMENDED TO HAVE THE ZERO "00" FEATURE ON, TO GIVE UNCODED EMITTERS THE ABILITY TO ACTIVATE THE EMERGENCY PRE-EMPTION.

a) WHEN RETURNING TO NORMAL OPERATION

b) WHEN RETURNING TO NORMAL OPERATION



DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	BUCKS	SR 2089	ALM	22 OF 24

NORTHAMPTON TOWNSHIP

REV NO	REVISIONS	DATE	BY	APPD

TRAFFIC SIGNAL NOTES

DO NOT MODIFY INSTALLATION WITHOUT PRIOR WRITTEN APPROVAL.

ALL SIGNS AND PAVEMENT MARKINGS INDICATED ARE PART OF THE PERMIT. INSTALL AND MAINTAIN IN ACCORDANCE WITH PUBLICATION 212 AND PUBLICATION 236.

POST MOUNTED SIGNALS: INSTALL WITH A MINIMUM SIGNAL HEAD CLEARANCE OF 2 FEET BEHIND FACE OF CURB OR EDGE OF SHOULDER; AND 8 FEET ABOVE SIDEWALK OR PAVEMENT GRADE.

OVERHEAD SIGNALS: INSTALL WITH A MINIMUM SIGNAL HEAD CLEARANCE OF 2 FEET BEHIND FACE OF CURB OR EDGE OF SHOULDER. PROVIDE A MINIMUM SIGNAL HEAD CLEARANCE OF 17 FEET ABOVE ROADWAY; RIGIDLY MOUNT, TOP AND BOTTOM : AND EQUIP WITH BACKPLATES. PROVIDE A MINIMUM HORIZONTAL DISTANCE OF 8 FEET BETWEEN SIGNALS AS MEASURED AT RIGHT ANGLES TO THE APPROACH.

DETERMINE WITH A PENNDOT REPRESENTATIVE, THE EXACT LOCATION OF DETECTORS PRIOR TO INSTALLATION.

CONSULT WITH LOCAL OFFICIALS AND UTILITIES TO RESOLVE CONFLICTS PRIOR TO CONSTRUCTION.

COMPLY WITH PROVISIONS OF ACT 287 FOR PREVENTION OF DAMAGE TO UNDERGROUND UTILITIES.

LEGEND

EXISTING	PROPOSED	
25' MA	25' MA	MAST ARM/ IDENTIFYING LENGTH
		SIGNAL HEAD/ IDENTIFYING NUMBER
		SIGN/ IDENTIFYING LETTER
		VIDEO DETECTION ZONE/SIZE
		DETECTABLE WARNING SURFACE
		EMERGENCY PRE-EMPTION DETECTOR
		EMERGENCY PRE-EMPTION FLASHING BEACON
		CONTROLLER CABINET
		LUMINAIRE/ IDENTIFYING LENGTH
		ADVANCED DILEMMA/DENSITY ZONE OF DETECTION/ IDENTIFYING NUMBER
		VIDEO DETECTOR/ IDENTIFYING NUMBER
, , , , , , , , ,	, , , , , , , , ,	4" WIDTH / DOUBLE YELLOW LINE 4" WIDTH / SOLID YELLOW LINE 4" WIDTH / BROKEN YELLOW LINE 4" WIDTH / BROKEN WHITE LINE 4" WIDTH / DASHED WHITE LINE 4" WIDTH / SOLID WHITE LINE 6" WIDTH / BROKEN WHITE LINE 6" WIDTH / SOLID WHITE LINE 24" WIDTH / SOLID WHITE LINE 24" WIDTH / SOLID YELLOW LINE
		TYPE III BARRICADE TYPE III BARRICADE WITH SIGNING
		CHANNELIZING DEVICE
		AREA UNDER CONSTRUCTION
		FENCE
		GUIDE RAIL
		PHASE NUMBER
		UTILITY POLE

COUNTY: BUCKS

MUNICIPALITY: NORTHAMPTON TOWNSHIP

INTERSECTION: ALMSHOUSE ROAD (SR 0332/2089) & JACKSONVILLE ROAD (SR 0332)

THIS PERMIT IS ISSUED TO, AND ACCEPTED BY:

	DATE
	DATE
	DATE
	DATE

0 25 50 FEET

SIGN TABULATION			
PLAN SYMBOL	SERIES	SIZE	DESCRIPTION
	R10-12	30"x36"	LEFT TURN YIELD ON GREEN ●
	W1-7	48"x24"	LARGE DOUBLE ARROW
	R9-3	18"x18"	NO PEDESTRIAN CROSSING
	R10-6L	24"x30"	STOP HERE ON RED
	W3-3	30"x30"	SIGNAL AHEAD
	R10-11	30"x36"	NO TURN ON RED
	R10-11	24"x30"	NO TURN ON RED
	OM1-3	18"x18"	OBJECT MARKER

EMERGENCY PRE-EMPTION NOTES:

- CONTROLLER TO BE EQUIPPED WITH EMERGENCY PRE-EMPTION FOR THE NORTHBOUND APPROACH OF JACKSONVILLE ROAD (SR 0332) AND THE EASTBOUND AND WESTBOUND APPROACHES OF ALMSHOUSE ROAD (SR 0332/SR 2089) WITH A FAIL SAFE DEVICE FOR EACH DIRECTION OF OPERATION. THIS EMERGENCY BEACON SHALL CONSIST OF A FLASHING WHITE FLOOD LIGHT, AND SHALL FLASH WHEN THE EMERGENCY VEHICLE HAS CONTROL OF THE INTERSECTION FOR THE APPROPRIATE APPROACH.
- THE SIGNALS, WHEN ACTIVATED BY EMERGENCY VEHICLE, SHALL TERMINATE ALL GREEN INDICATIONS IMMEDIATELY, FOLLOWED BY THE COMPLETE YELLOW AND RED CLEARANCE INTERVALS, ACCORDINGLY. THEN THE GREEN INTERVAL FOR THE PRE-EMPTION PHASE SHALL FOLLOW. ONLY THOSE PHASES NOT POSING A YELLOW TRAP CONDITION MAY REMAIN GREEN (4) WHEN GOVERNED BY APPROACHING EMERGENCY VEHICLE.
- THE SIGNALS, WHEN ACTIVATED BY EMERGENCY VEHICLE SHALL TIME OUT ALL YELLOW AND RED INDICATIONS, FOLLOWED BY THE GREEN INTERVAL OF THE PRE-EMPTION PHASE GOVERNED BY THE APPROACHING EMERGENCY VEHICLE.
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- UPON COMPLETION OF PRE-EMPTION PHASE 2,4 OR 6, IN RETURNING TO NORMAL OPERATION, PHASE 2+6 INTERVAL 4 SHALL FOLLOW.
- IN EMERGENCY PRE-EMPTION, NO PRIORITY SHALL BE ESTABLISHED. PRE-EMPTION SHALL BE A "FIRST COME, FIRST SERVE" OPERATION.
- LOCATION OF EMERGENCY VEHICLE DETECTORS ARE TO BE FIELD ADJUSTED TO ACHIEVE MAXIMUM OPERATION.

EMERGENCY PRE-EMPTION PHASING MOVEMENT, SEQUENCE, AND TIMING DIAGRAM

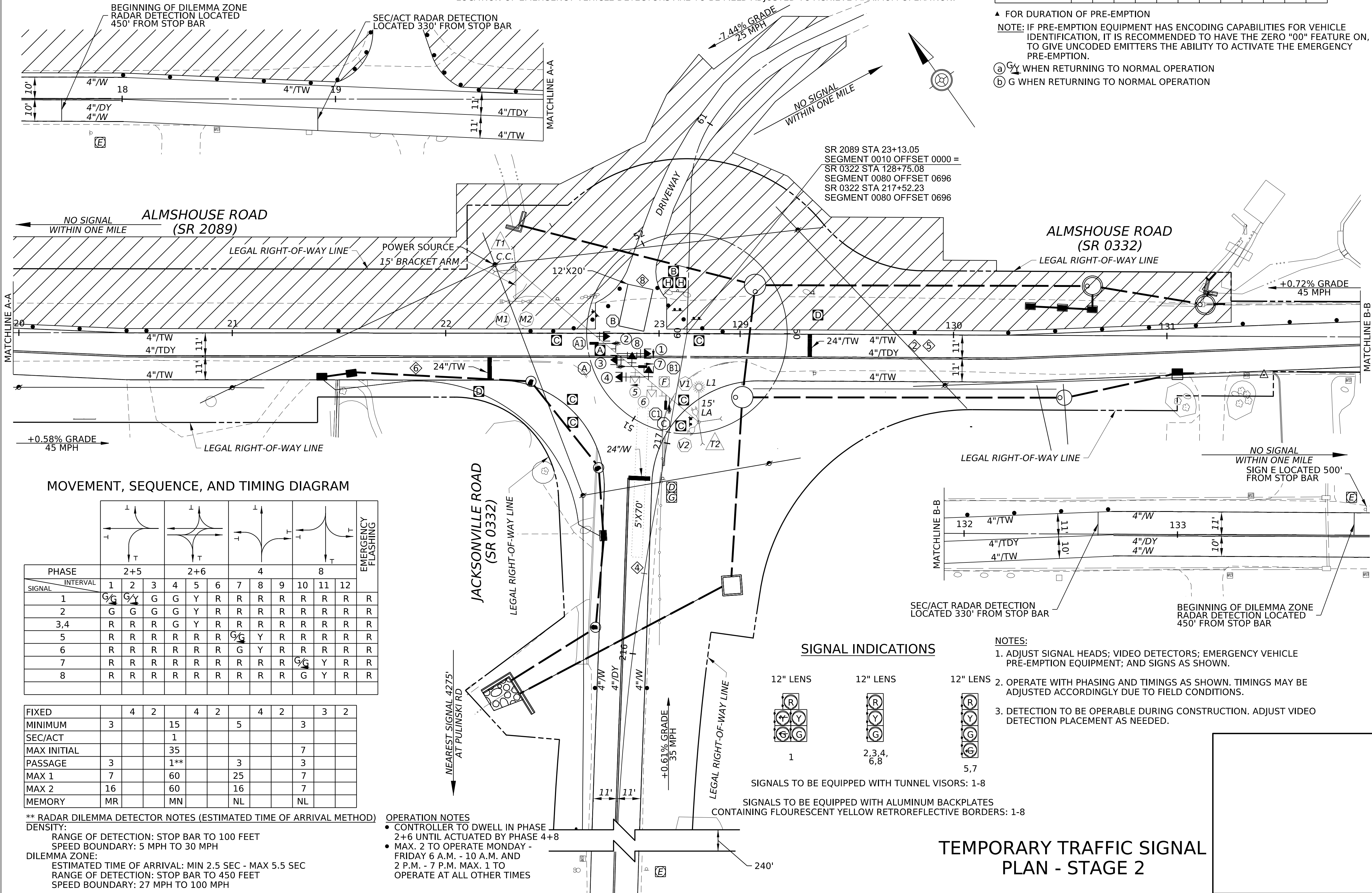
		2			4			6		
PHASE	INTERVAL	13	14	15	16	17	18	19	20	21
SIGNAL		G	Y	R	R	R	R	R	R	R
1		G	Y	R	R	R	R	R	R	R
2		G	Y	R	R	R	R	R	R	R
3,4		R	R	R	R	R	R	G	Y	R
5		R	R	R	R	Y	R	R	R	R
6		R	R	R	G	Y	R	R	R	R
7		R	R	R	R	R	R	R	R	R
8		R	R	R	R	R	R	R	R	R
FIXED		▲	4	2	▲	4	2	▲	4	2

▲ FOR DURATION OF PRE-EMPTION

NOTE: IF PRE-EMPTION EQUIPMENT HAS ENCODING CAPABILITIES FOR VEHICLE IDENTIFICATION, IT IS RECOMMENDED TO HAVE THE ZERO "00" FEATURE ON, TO GIVE UNCODED EMITTERS THE ABILITY TO ACTIVATE THE EMERGENCY PRE-EMPTION.

a) G WHEN RETURNING TO NORMAL OPERATION

b) G WHEN RETURNING TO NORMAL OPERATION



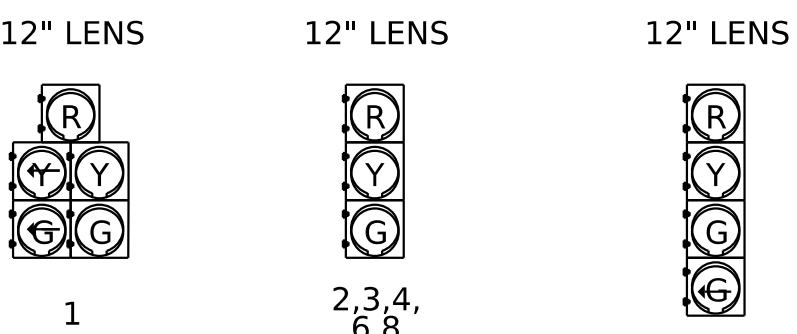
MOVEMENT, SEQUENCE, AND TIMING DIAGRAM													
		2+5			2+6			4			8		
PHASE	INTERVAL	1	2	3	4	5	6	7	8	9	10	11	12
SIGNAL		G	G	Y	G	Y	R	R	R	R	R	R	R
1		G	G	Y	G	Y	R	R	R	R	R	R	R
2		G	G	G	G	Y	R	R	R	R	R	R	R
3,4		R	R	R	G	Y	R	R	R	R	R	R	R
5		R	R	R	R	R	R	G	Y	R	R	R	R
6		R	R	R	R	R	R	G	Y	R	R	R	R
7		R	R	R	R	R	R	R	R	G	Y	R	R
8		R	R	R	R	R	R	R	R	R	G	Y	R

FIXED		4	2		4	2		4	2		3	2
MINIMUM	3			15			5			3		
SEC/ACT				1								
MAX INITIAL				35						7		
PASSAGE	3			1**			3			3		
MAX 1	7			60			25			7		
MAX 2	16			60			16			7		
MEMORY	MR			MN			NL			NL		

** RADAR DILEMMA DETECTOR NOTES (ESTIMATED TIME OF ARRIVAL METHOD)
DENSITY:
RANGE OF DETECTION: STOP BAR TO 100 FEET
SPEED BOUNDARY: 5 MPH TO 30 MPH
DILEMMA ZONE:
ESTIMATED TIME OF ARRIVAL: MIN 2.5 SEC - MAX 5.5 SEC
RANGE OF DETECTION: STOP BAR TO 450 FEET
SPEED BOUNDARY: 27 MPH TO 100 MPH

OPERATION NOTES
• CONTROLLER TO DWELL IN PHASE 2+6 UNTIL ACTUATED BY PHASE 4+8
• MAX. 2 TO OPERATE MONDAY - FRIDAY 6 A.M. - 10 A.M. AND 2 P.M. - 7 P.M. MAX. 1 TO OPERATE AT ALL OTHER TIMES

SIGNAL INDICATIONS



SIGNALS TO BE EQUIPPED WITH TUNNEL VISORS: 1-8

SIGNALS TO BE EQUIPPED WITH ALUMINUM BACKPLATES CONTAINING FLOURESCENT YELLOW RETROREFLECTIVE BORDERS: 1-8

TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 2

DISTRICT	COUNTY	ROUTE	SECTION	SHEET			
6-0	BUCKS	SR 2089	ALM	23 OF 24			
NORTHAMPTON TOWNSHIP							
REV NO	REVISIONS		DATE	BY APPD			
TRAFFIC SIGNAL NOTES							
DO NOT MODIFY INSTALLATION WITHOUT PRIOR WRITTEN APPROVAL.							
ALL SIGNS AND PAVEMENT MARKINGS INDICATED ARE PART OF THE PERMIT. INSTALL AND MAINTAIN IN ACCORDANCE WITH PUBLICATION 212 AND PUBLICATION 236.							
POST MOUNTED SIGNALS: INSTALL WITH A MINIMUM SIGNAL HEAD CLEARANCE OF 2 FEET BEHIND FACE OF CURB OR EDGE OF SHOULDER; AND 8 FEET ABOVE SIDEWALK OR PAVEMENT GRADE.							
OVERHEAD SIGNALS: INSTALL WITH A MINIMUM SIGNAL HEAD CLEARANCE OF 2 FEET BEHIND FACE OF CURB OR EDGE OF SHOULDER. PROVIDE A MINIMUM SIGNAL HEAD CLEARANCE OF 17 FEET ABOVE ROADWAY; RIGIDLY MOUNT, TOP AND BOTTOM : AND EQUIP WITH BACKPLATES. PROVIDE A MINIMUM HORIZONTAL DISTANCE OF 8 FEET BETWEEN SIGNALS AS MEASURED AT RIGHT ANGLES TO THE APPROACH.							
DETERMINE WITH A PENNDOT REPRESENTATIVE, THE EXACT LOCATION OF DETECTORS PRIOR TO INSTALLATION.							
CONSULT WITH LOCAL OFFICIALS AND UTILITIES TO RESOLVE CONFLICTS PRIOR TO CONSTRUCTION.							
COMPLY WITH PROVISIONS OF ACT 287 FOR PREVENTION OF DAMAGE TO UNDERGROUND UTILITIES.							
LEGEND							
EXISTING	PROPOSED	MAST ARM/ IDENTIFYING LENGTH SIGNAL HEAD/ IDENTIFYING NUMBER SIGN/ IDENTIFYING LETTER VIDEO DETECTION ZONE/SIZE DETECTABLE WARNING SURFACE EMERGENCY PRE-EMPTION DETECTOR EMERGENCY PRE-EMPTION FLASHING BEACON CONTROLLER CABINET LUMINAIRE/ IDENTIFYING LENGTH ADVANCED DILEMMA/DENSITY ZONE OF DETECTION/ IDENTIFYING NUMBER VIDEO DETECTOR/ IDENTIFYING NUMBER WOOD STRAIN POLE WITH GUY WIRE/IDENTIFYING NUMBER					
		TYPE III BARRICADE TYPE III BARRICADE WITH SIGNING CHANNELIZING DEVICE					
		AREA UNDER CONSTRUCTION					
		FENCE GUIDE RAIL					
		PHASE NUMBER UTILITY POLE					
COUNTY: BUCKS							
MUNICIPALITY: NORTHAMPTON TOWNSHIP							
INTERSECTION: ALMSHOUSE ROAD (SR 0332/2089) & JACKSONVILLE ROAD (SR 0332)							
THIS PERMIT IS ISSUED TO, AND ACCEPTED BY:							
			DATE				
CONTRACTOR			DATE				
APPROVED:			DATE				
ASSITANT DISTRICT EXECUTIVE			DATE				
0 25 50 FEET							

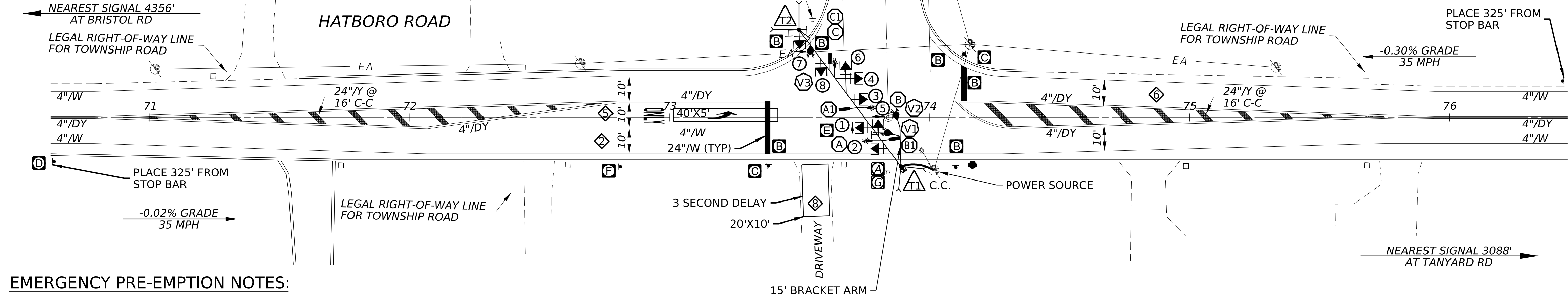
MOVEMENT, SEQUENCE, AND TIMING DIAGRAM

														EMERGENCY FLASHING
PHASE	INTERVAL	1	2	3	4	5	6	7	8	9	10	11	12	
1		G	Y	R	G	Y	R	R	R	R	R	R	R	R
2		G	Y	R	G	Y	R	R	R	R	R	R	R	R
3,4		R	R	R	G	Y	R	R	R	R	R	R	R	R
5		R	R	R	R	R	R	G	Y	R	R	R	R	R
6		R	R	R	R	R	R	G	Y	R	R	R	R	R
7		R	R	R	R	R	R	R	R	R	G	Y	R	R
8		R	R	R	R	R	R	R	R	R	G	Y	R	R

FIXED		4	2		4	2		4	2		3	2
MINIMUM		3			15			3			3	
PASSAGE		3						3			3	
MAX 1		7			50			10			5	
MAX 2		7			65			10			5	
MEMORY		NL			MX			NL			NL	

OPERATION NOTES

- ① G IF FOLLOWED BY 2+6
② G IF FOLLOWED BY 2+6
- CONTROLLER TO DWELL IN PHASE 2+6 UNTIL ACTUATED BY PHASE 4 OR 8
 - MAX. 2 TO OPERATE MONDAY - FRIDAY 2 P.M. - 7 P.M. MAX. 1 TO OPERATE AT ALL OTHER TIMES



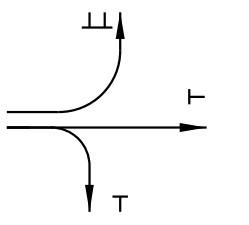
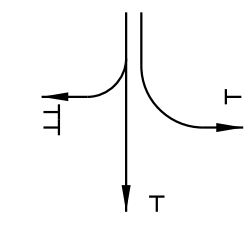
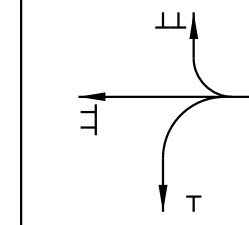
EMERGENCY PRE-EMPTION NOTES:

- CONTROLLER TO BE EQUIPPED WITH EMERGENCY PRE-EMPTION FOR THE NORTHBOUND AND SOUTHBOUND APPROACHES OF HATBORO ROAD AND THE EASTBOUND APPROACH OF PULINSKI ROAD WITH A FAIL SAFE DEVICE FOR EACH DIRECTION OF OPERATION. THIS EMERGENCY BEACON SHALL CONSIST OF A FLASHING WHITE FLOOD LIGHT, AND SHALL FLASH WHEN THE EMERGENCY VEHICLE HAS CONTROL OF THE INTERSECTION FOR THE APPROPRIATE APPROACH.
- THE SIGNALS, WHEN ACTIVATED BY EMERGENCY VEHICLE, SHALL TERMINATE ALL GREEN INDICATIONS IMMEDIATELY, FOLLOWED BY THE COMPLETE YELLOW AND RED CLEARANCE INTERVALS, ACCORDINGLY. THEN THE GREEN INTERVAL FOR THE PRE-EMPTION PHASE SHALL FOLLOW. ONLY THOSE PHASES NOT POSING A YELLOW TRAP CONDITION MAY REMAIN GREEN (2+5, 4) WHEN GOVERNED BY APPROACHING EMERGENCY VEHICLE.
- THE SIGNALS, WHEN ACTIVATED BY EMERGENCY VEHICLE SHALL TIME OUT ALL YELLOW AND RED INDICATIONS, FOLLOWED BY THE GREEN INTERVAL OF THE PRE-EMPTION PHASE GOVERNED BY THE APPROACHING EMERGENCY VEHICLE.
- IF THE SIGNALS, WHEN ACTIVATED BY AN EMERGENCY VEHICLE, ARE FLASHING, ALL SIGNALS SHALL REMAIN FLASHING.
- IF ADDITIONAL PRE-EMPTION PHASES ARE ACTIVATED WHILE IN PRE-EMPTION, THE ORIGINAL PRE-EMPTION PHASE SHALL TIME OUT BEFORE PROCEEDING TO THE NEXT PRE-EMPTION PHASE.
- UPON COMPLETION OF PRE-EMPTION PHASE 2,4 OR 6, IN RETURNING TO NORMAL OPERATION, PHASE 2+6 INTERVAL 4 SHALL FOLLOW.
- IN EMERGENCY PRE-EMPTION, NO PRIORITY SHALL BE ESTABLISHED. PRE-EMPTION SHALL BE A "FIRST COME, FIRST SERVE" OPERATION.
- LOCATION OF EMERGENCY VEHICLE DETECTORS ARE TO BE FIELD ADJUSTED TO ACHIEVE MAXIMUM OPERATION.

SIGN TABULATION

PLAN SYMBOL	SERIES	SIZE	DESCRIPTION
A	W1-7	48"x24"	LARGE DOUBLE ARROW
B	R9-3	18"x18"	NO PEDESTRIAN CROSSING
C	R10-6L	24"x30"	STOP HERE ON RED
D	W3-3	36"x36"	SIGNAL AHEAD
E	R10-12	30"x36"	LEFT TURN YIELD ON GREEN
F	R3-7L	30"x30"	LEFT LANE MUST TURN LEFT
G	OM1-3	18"x18"	OBJECT MARKER

EMERGENCY PRE-EMPTION PHASING
MOVEMENT, SEQUENCE, AND TIMING DIAGRAM

									
PHASE	2			4			6		
INTERVAL	13	14	15	16	17	18	19	20	21
SIGNAL									
1	G _ⓐ	Y _ⓐ	R _ⓐ	R	R	R	R	R	R
2	G _ⓑ	Y _ⓑ	R _ⓑ	R	R	R	R	R	R
3,4	R	R	R	R	R	R	G	Y _ⓐ	R _ⓑ
5	R	R	R	G _ⓐ	Y	R	R	R	R
6	R	R	R	G _ⓑ	Y	R	R	R	R
7	R	R	R	R	R	R	R	R	R
8	R	R	R	R	R	R	R	R	R
FIXED	▲	4	2	▲	4	2	▲	4	2

- ▲ FOR DURATION OF PRE-EMPTION
NOTE: IF PRE-EMPTION EQUIPMENT HAS ENCODING CAPABILITIES FOR VEHICLE IDENTIFICATION, IT IS RECOMMENDED TO HAVE THE ZERO "00" FEATURE ON, TO GIVE UNCODED EMITTERS THE ABILITY TO ACTIVATE THE EMERGENCY PRE-EMPTION.
- ③ G WHEN RETURNING TO NORMAL OPERATION
④ G WHEN RETURNING TO NORMAL OPERATION

- NOTES:
- INSTALL TEMPORARY WOOD SPAN WIRE POLES T1 & T2; BRACKET ARM; SIGNAL HEADS; VIDEO DETECTORS; EMERGENCY PRE-EMPTION EQUIPMENT; AND SIGNS AS SHOWN.
 - INSTALL TEMPORARY CONTROLLER AT SUPPORT T1. ENERGIZE SIGNAL EQUIPMENT AND OPERATE WITH PHASING AND TIMINGS AS SHOWN. TIMINGS MAY BE ADJUSTED ACCORDINGLY DUE TO FIELD CONDITIONS.
 - DETECTION TO BE OPERABLE DURING CONSTRUCTION. ADJUST VIDEO DETECTION PLACEMENT AS NEEDED.
 - REMOVE EXISTING PAVEMENT MARKINGS AND ADD TEMPORARY PAVEMENT MARKINGS AS SHOWN.
 - COVER STOP SIGN AS SHOWN.

SIGNAL INDICATIONS

- 12" LENS 12" LENS 12" LENS
- 1 5,7 2,3,4,6,8
- SIGNALS TO BE EQUIPPED WITH TUNNEL VISORS: 1-8
- SIGNALS TO BE EQUIPPED WITH ALUMINUM BACKPLATES CONTAINING FLOURESCENT YELLOW RETROREFLECTIVE BORDERS: 1-8

TEMPORARY TRAFFIC SIGNAL PLAN
STAGES 3, 4 & 5

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	BUCKS	SR 2089	ALM	24 OF 24
WARWICK TOWNSHIP				
REV NO	REVISIONS		DATE	BY APPD
TRAFFIC SIGNAL NOTES				
DO NOT MODIFY INSTALLATION WITHOUT PRIOR WRITTEN APPROVAL.				
ALL SIGNS AND PAVEMENT MARKINGS INDICATED ARE PART OF THE PERMIT. INSTALL AND MAINTAIN IN ACCORDANCE WITH PUBLICATION 212 AND PUBLICATION 236.				
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CONSULT WITH LOCAL OFFICIALS AND UTILITIES TO RESOLVE CONFLICTS PRIOR TO CONSTRUCTION.				
COMPLY WITH PROVISIONS OF ACT 287 FOR PREVENTION OF DAMAGE TO UNDERGROUND UTILITIES.				
LEGEND				
EXISTING	PROPOSED			
25' MA	25' MA	MAST ARM/ IDENTIFYING LENGTH		
①	①	SIGNAL HEAD/ IDENTIFYING NUMBER		
A A	A A	SIGN/ IDENTIFYING LETTER		
6'X20'	6'X40'	VIDEO DETECTION ZONE/SIZE		
A1	A1	CURB RAMP		
A	A	EMERGENCY PRE-EMPTION DETECTOR		
A	A	EMERGENCY PRE-EMPTION FLASHING BEACON		
15' LA	15' LA	CONTROLLER CABINET		
M4	M4	LUMINAIRE/ IDENTIFYING LENGTH		
V4	V4	ADVANCED DILEMMA/DENSITY ZONE OF DETECTION/ IDENTIFYING NUMBER		
T1	T1	VIDEO DETECTOR/ IDENTIFYING NUMBER		
4"/DY	4"/DY	WOOD STRAIN POLE WITH GUY WIRE/IDENTIFYING NUMBER		
4"/Y	4"/Y	4" WIDTH / DOUBLE YELLOW LINE		
4"/DDY	4"/DDY	4" WIDTH / SOLID YELLOW LINE		
4"/BW	4"/BW	4" WIDTH / DASHED DOUBLE YELLOW LINE		
4"/DW	4"/DW	4" WIDTH / BROKEN WHITE LINE		
4"/W	4"/W	4" WIDTH / DASHED WHITE LINE		
6"/BW	6"/BW	4" WIDTH / SOLID WHITE LINE		
6"/W	6"/W	6" WIDTH / BROKEN WHITE LINE		
24"/W	24"/W	6" WIDTH / SOLID WHITE LINE		
24"/Y	24"/Y	24" WIDTH / SOLID WHITE LINE		
		24" WIDTH / SOLID YELLOW LINE		
		TYPE III BARRICADE		
		TYPE III BARRICADE WITH SIGNING		
		CHANNELIZING DEVICE		
		AREA UNDER CONSTRUCTION		
		FENCE		
		GUIDE RAIL		
		PHASE NUMBER		
		UTILITY POLE		
COUNTY: BUCKS				
MUNICIPALITY: NORTHAMPTON TOWNSHIP				
INTERSECTION: HATBORO ROAD & PULINSKI RD				
THIS PERMIT IS ISSUED TO, AND ACCEPTED BY:				
DATE				
CONTRACTOR DATE				
APPROVED: DATE				
ASSISTANT DISTRICT EXECUTIVE DATE				
0 25 50 FEET				