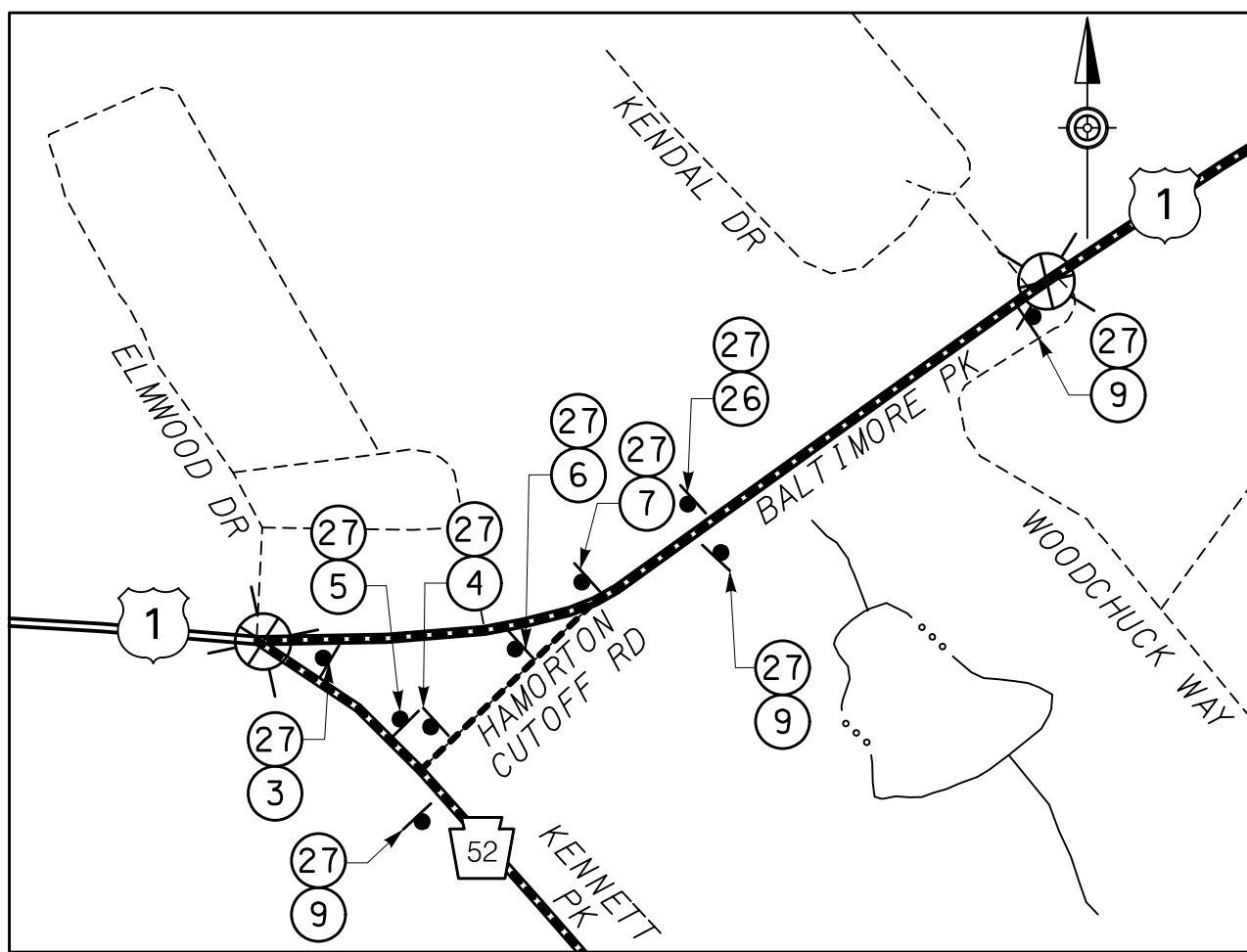
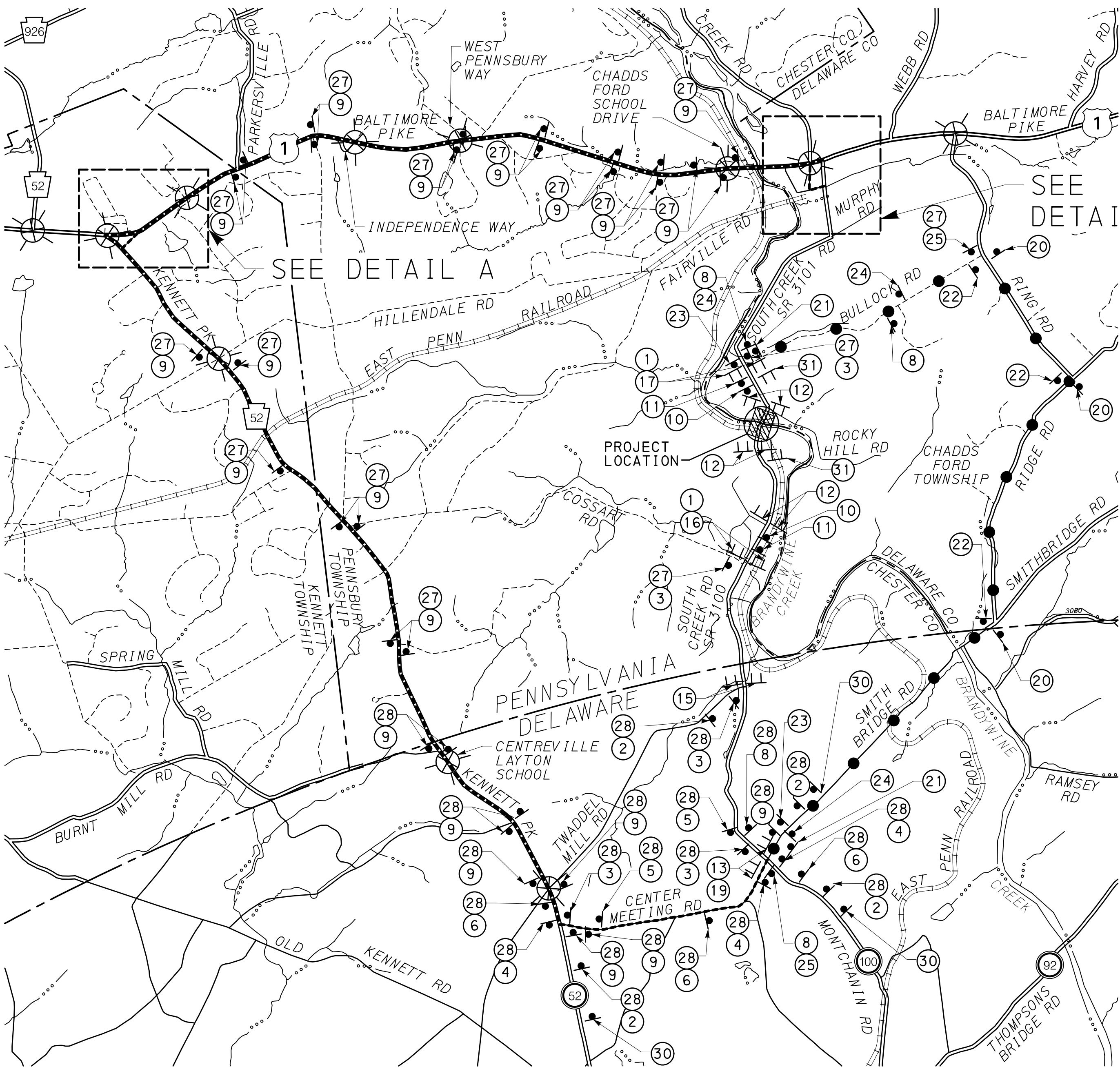
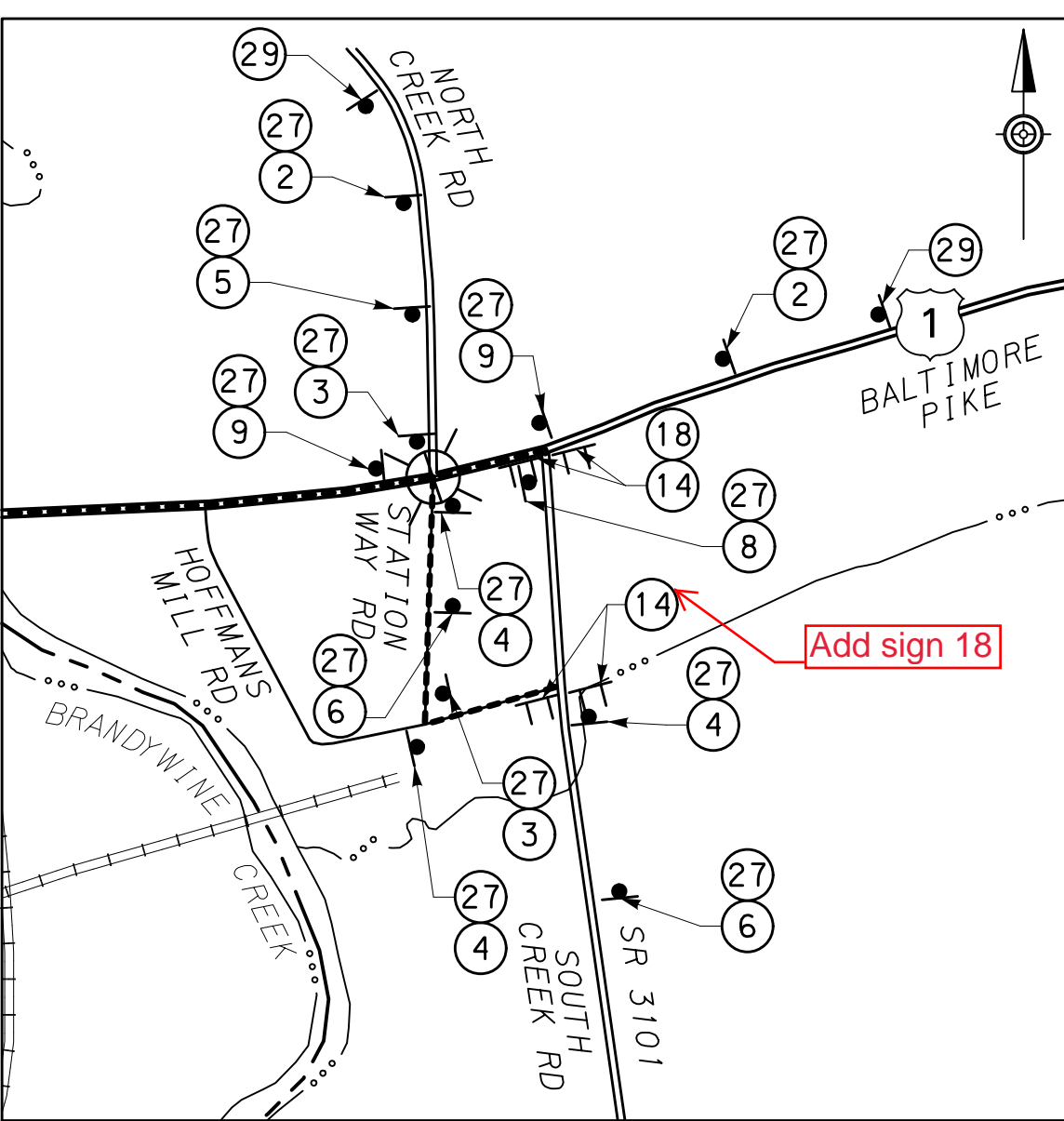


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TIME: 9/15/2023 9:31:41 AM
DATE: 9/15/2023
GREENMAN-PEDERSEN, INC.



DETAIL A
SCALE
0 500 1000 FEET



DETAIL B
SCALE
0 500 1000 FEET

LEGEND

PROJECT

U. S. , PA, OR DE ROUTE

PA TOWNSHIP ROAD

OTHER ROAD

MUNICIPAL BOUNDARY

STATE BOUNDARY

RAILROAD

STREAM

VEHICULAR DETOUR ROUTE (8.8 MI)

BICYCLE DETOUR ROUTE (4.9 MI)

SIGN, TYPE B MOUNTING

TYPE III BARRICADE

EXISTING TRAFFIC SIGNAL

DETOUR PLAN

SCALE

0 2000 4000 FEET

- SEQUENCE OF CONSTRUCTION
1. REMOVE AND INSTALL NEW DRAINAGE STRUCTURE AS SHOWN ON THE E&S PLANS. [MAINTAIN SHORT-TERM TRAFFIC CONTROL ON SR 3101 AND ROCKY HILL ROAD IN ACCORDANCE WITH PATA 102, 103, 107, AND 109 AS REQUIRED DURING WORKING HOURS.]

2. BEFORE THE START OF CONSTRUCTION ON THE TEMPORARY ACCESS ROADS, ESTABLISH DETOUR AND CLOSE SR 3100/3101 (SOUTH CREEK ROAD) TO TRAFFIC.

3. IMPLEMENT E&S MEASURES IN ACCORDANCE WITH THE APPROVED EROSION AND SEDIMENT POLLUTION CONTROL PLANS AND CONSTRUCT BRIDGE, ROADWAY, AND DRAINAGE IMPROVEMENTS AS SHOWN ON THE APPROVED CONSTRUCTION PLANS.

4. FOR ALL WORK ON OR IMPACTING ROCKY HILL ROAD, UTILIZE PATA 106 AND 107 FOR SHORT TERM TRAFFIC CONTROL. MAINTAIN ACCESS TO ROCKY HILL ROAD AND DRIVEWAYS AT ALL TIMES.

5. WHEN BRIDGE CAN BE SAFELY OPENED TO TRAFFIC, REMOVE DETOUR.

- NOTES:
1. PLACE SIGN W23-101, ONE IN EACH DIRECTION AT CLOSURE POINT, TWO WEEKS PRIOR TO IMPLEMENTING DETOUR.

SHEET INDEX

DESCRIPTION	SHEET
DETOUR PLAN	1
SIGN TABULATION	2
SIGN DETAILS	3
PLAN SHEETS	4 TO 5

RECOMMENDED

20

David L. Adams, P.E.

Digitally signed by David L. Adams, P.E.
Date: 2023.09.15 14:29:14 -04'00'

ASSISTANT DISTRICT EXECUTIVE - OPERATIONS

PREPARED BY:

Greenman-Pedersen, Inc.

1320 HAUSMAN ROAD
SUITE 204
ALLENTOWN, PA 18104

Jason S. Besz

JASON S. BESZ P.E.

DATE: 09/15/2023

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	DELAWARE	3101	DRB	1 OF 5
6-0	CHESTER	3100	DRB	

CHADDS FORD AND PENNSBURY TOWNSHIPS

REVISION NUMBER	REVISIONS	DATE	BY

GENERAL NOTES

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.

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,

1. THE SPECIAL PROVISIONS OF THE CONTRACT.

2. PA CODE, TITLE 67, CHAPTER 212, OFFICIAL TRAFFIC CONTROL DEVICES.

3. PDT PUBLICATION 213, TEMPORARY TRAFFIC CONTROL GUIDELINES.

4. PDT PUBLICATION 35, QUALIFIED PRODUCTS LIST FOR CONSTRUCTION (BULLETIN 15).

5. PDT PUBLICATION 408, SPECIFICATIONS

6. PUBLICATION 236, HANDBOOK OF APPROVED SIGNS.

7. PUBLICATION 46, TRAFFIC ENGINEERING MANUAL.

8. MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD)

9. DELAWARE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES

10. DELDOT TRAFFIC DESIGN MANUAL.

IMMEDIATELY UPON COMPLETION OF THE WORK, REMOVE THE DEVICES. THE DEPARTMENT WILL REMOVE ANY TRAFFIC CONTROL DEVICES ERECTED BY THE DEPARTMENT FORCES.

PLACE ALL TRAFFIC CONTROL DEVICES IN THE APPROPRIATE LOCATIONS FOR INSPECTION BY THE DISTRICT CONSTRUCTION ENGINEER OR HIS REPRESENTATIVE BEFORE WORK BEGINS.

REFER TO SPECIAL PROVISION ITEM NO 0901-0001 MAINTENANCE AND PROTECTION OF TRAFFIC DURING CONSTRUCTION, WITHIN THE PROJECT CONTRACT, FOR ADDITIONAL INFORMATION PERTAINING TO THIS PROJECT.

COVER OR REMOVE ALL SIGNS NOT IN USE.

ALL SIGNS AND DEVICES ARE TO BE IN NEW CONDITION AND MAINTAINED AS SUCH.

ALL DISTANCES MAY BE ADJUSTED SLIGHTLY TO FIT FIELD CONDITIONS.

COORDINATE WITH ANY OTHER ROAD WORK THAT IS OCCURRING IN THE AREA.

DRIVEWAYS ARE TO BE KEPT ACCESSIBLE AT ALL TIMES. LOCATE SIGNS SO THAT SIGHT DISTANCE IS NOT OBSTRUCTED AT DRIVEWAYS AND SIDE STREETS. MAINTAIN ACCESS TO ALL SIDE ROADS, BUSINESSES AND PROPERTIES WITHIN THE WORK ZONE.

SUBMIT A ROAD RESTRICTION FORM TO THE DISTRICT 6-0 PRESS OFFICE ONE WEEK IN ADVANCE OF ANY LANE CLOSURES AND TWO (2) WEEKS IN ADVANCE OF ANY FULL CLOSURES THAT NECESSITATE A DETOUR. THE FORM IS AVAILABLE ONLINE AT PENNDOT.GOV/DISTRICT6/ROADRESTRICTIONFORM OR BY CALLING 610-205-6797.

NOTIFY DELAWARE DEPARTMENT OF TRANSPORTATION (DELDOT) TWO (2) WEEKS PRIOR TO IMPLEMENTING THE DETOUR. CONTACT GERALD A. NAGYISKI JR., DELDOT CHIEF SAFETY OFFICER AT (302)-222-5977 OR GERALD.NAGYISKI@DELAWARE.GOV AND CALL THE DELDOT RTMC AT 302-659-4600. IN ADDITION, COMPLETE THE DELDOT ROAD RESTRICTION FORM AVAILABLE ONLINE AT HTTPS://TMC.DELDOT.GOV/TMCX/APP/ROADCLOSURE/PUBLIC/INFO.HTML.

NOTIFY LOCAL EMERGENCY OFFICIALS (POLICE, FIRE, AMBULANCE), POSTAL SERVICES AND SCHOOL DISTRICTS TWO WEEKS IN ADVANCE OF ANY DETOURS, LANE CLOSURES OR RESTRICTIONS.

NOTIFY THE DISTRICT 6-0 REGIONAL TRAFFIC MANAGEMENT CENTER (RTMC), 610-205-6934, FIFTEEN (15) MINUTES IN ADVANCE OF ANY PROPOSED LANE OR SHOULDER RESTRICTIONS, ROAD CLOSURE, OR ANY OPERATION IMPEDING THE FLOW OF TRAFFIC. NOTIFY THE RTMC WHEN THE ROAD IS RESTORED TO NORMAL OPERATION.

CONTACT DELDOT HAULING PERMIT OFFICE 3 WEEKS IN ADVANCE OF ANY CLOSURE AT HAULPERMIT@DELAWARE.GOV. SUBMIT A COMPLETED M-937R FORM TO THE DISTRICT HAULING PERMIT OFFICE (610-205-6787) AND THE INSPECTOR-IN-CHARGE TEN (10) WORKING DAYS IN ADVANCE OF ALL TRAFFIC RESTRICTIONS.

THESE PLANS ARE NOT INTENDED TO RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY FOR THE PROTECTION OF THE PUBLIC AND THE CONSTRUCTION PERSONNEL AS SPECIFIED IN SECTION 901.3(A) OF PENNDOT PUBLICATION 408. THE STANDARDS PRESCRIBED ARE A MINIMUM AND ADDITIONAL PROTECTION MAY BE NEEDED IF PROBLEMS ARE ENCOUNTERED DURING THE TERM OF THE CONTRACT. CONSTANTLY REVIEW THIS PLAN FOR THE ADEQUACY AND RECOMMEND CHANGES FOR DEPARTMENT APPROVAL WHEN INADEQUACIES ARE DISCOVERED.

ALL WORKERS REQUIRED TO FOLLOW THE REGULATIONS SET FORTH IN TITLE 23 OF THE CODE OF FEDERAL REGULATIONS 9CFR PART 634 EFFECTIVE NOVEMBER 24, 2008 IN REGARDS TO WORKER'S SAFETY APPAREL.

TRAFFIC CONTROL PLAN

FILE\\V:\PAK-2006\10_00_E00555.D6 Delaware City Bridge\SR 3101 Post Hill Rd\Plans\02 TCD\23-3101-DRB-TCD\01-002.Detour Signs\01.dgn
TIME: 9/15/2023 9:31:43 AM
GREENMAN-PEDERSEN, INC.

TABULATION OF TRAFFIC CONTROL DEVICES
(SEPARATE PAY ITEMS)

ITEM NO.	DESCRIPTION	UNIT	QUANTITY	REMARKS
0901-0231	ADDITIONAL WARNING LIGHTS, TYPE B	DAY	120	ENTIRE PROJECT
0901-0232	ADDITIONAL WARNING LIGHTS, TYPE C	DAY	120	ENTIRE PROJECT
0901-0240	ADDITIONAL TRAFFIC CONTROL SIGNS	SF	100	ENTIRE PROJECT
0901-0450	3-LINE CHANGEABLE MESSAGE SIGN WITH TELECOMMUNICATIONS	EACH	2	AS DIRECTED









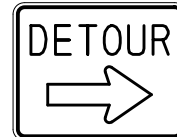

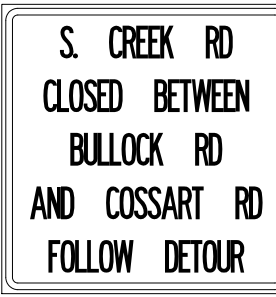


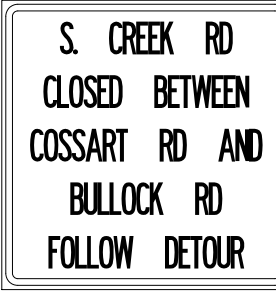
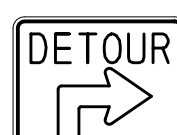
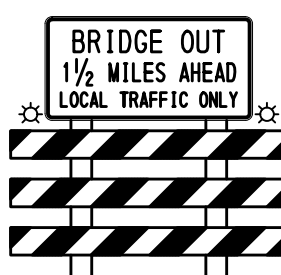






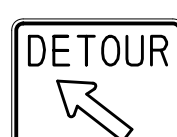


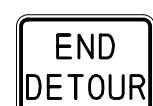



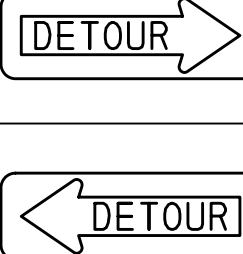

TABULATION OF TRAFFIC CONTROL DEVICES FOR
TEMPORARY ACCESS ROADS INCLUDED IN ITEM 0901-0001

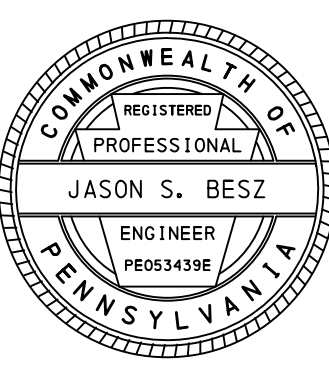
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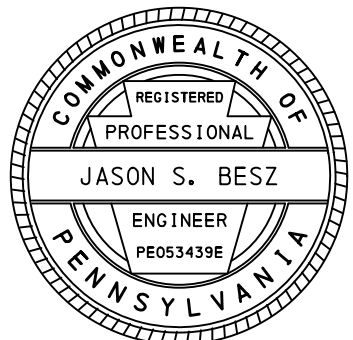
SERIES	SIZE	DESCRIPTION	UNIT	STAGE 1	STAGE 2	PROJECT TOTAL
R1-1	24 "X24 "	STOP	EACH	3	3	3
R8-8	24 "X30 "	DO STOP ON TRACKS	EACH	4	4	4
R15-1	48 "X9 "	RAILROAD CROSSBUCK	EACH	1	1	1
R15-2P	27 "X18 "	TRACKS SIGN	EACH	2	2	2
W10-1	36 " DIA	RAILROAD CROSSING	EACH	1	1	1
W25-5	36 "X36 "	CONSTRUCTION ENTRANCE AHEAD	EACH	3	3	3

DISTRICT	COUNTY	ROUTE	SECTION	SHEET	
6-0	DELAWARE	3101	DRB	2 OF 5	
6-0	CHESTER	3100	DRB		
CHADDS FORD AND PENNSBURY TOWNSHIPS					
REVISION NUMBER	REVISIONS			DATE	BY

TABULATION OF TRAFFIC CONTROL DEVICES FOR DETOUR
INCLUDED IN ITEM 0901-0001
(FOR INFORMATION ONLY)

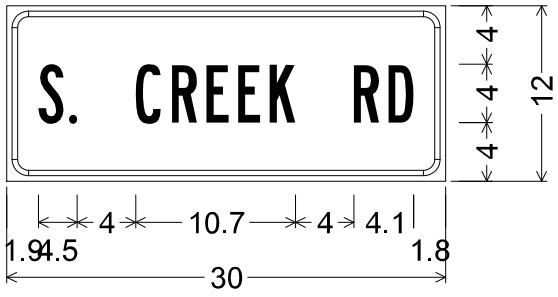
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①		W14-2 (BLACK LETTERING IN ORANGE BACKGROUND)	36 "X36 "	TYPE B POST OR TYPE III BARRICADE	4	⑩		W20-3 W30-1-1	36 "X36 " 20 "X6 "	TYPE B POST OR TYPE III BARRICADE (SEE NOTE 2)	2	⑳		M4-8 M1-8A	12 "X6 " 12 "X36 "	TYPE F POST TYPE B POST (SEE NOTE 3)	3	②⑥		M4-9-1AL	30 "X24 "	TYPE B POST OR TYPE III BARRICADE	1																						
②		W20-2 W30-1-6	36 "X36 " 20 "X6 "	TYPE B POST OR TYPE III BARRICADE (SEE NOTE 3)	6	⑪		W20-3 W30-1-2	36 "X36 " 20 "X6 "	TYPE B POST OR TYPE III BARRICADE (SEE NOTE 2)	2	⑳		M4-8 M1-8A	12 "X6 " 12 "X36 "	TYPE F POST TYPE B POST (SEE NOTE 3)	2	②⑧		SP-2	42 "X12 "	TYPE B POST OR TYPE F POST (SEE NOTE 3)	25																						
③		M4-9R	30 "X24 "	TYPE B POST OR TYPE III BARRICADE (SEE NOTE 3)	8	⑫		R11-2-1	48 "X30 "	TYPE III BARRICADE (SEE NOTES 1, 2)	6		②⑨		SP-3	60 "X54 "	TYPE III BARRICADE (SEE NOTE 2)	2																											
④		M4-9L	30 "X24 "	TYPE B POST OR TYPE III BARRICADE (SEE NOTE 3)	7	⑬		R11-3A R11-3B	60 "X30 " 48 "X12 "	TYPE III BARRICADE (SEE NOTE 2) (SEE NOTE 3)	2		③①		SP-4	60 "X54 "	TYPE III BARRICADE (SEE NOTE 2) (SEE NOTE 3)	3																											
⑤		M4-9SR	30 "X24 "	TYPE B POST OR TYPE III BARRICADE (SEE NOTE 3)	4	⑭		R11-3A R11-3B	60 "X30 " 48 "X12 "	TYPE III BARRICADE (SEE NOTE 2)	4	<table><tr><th>KEY</th><th>LEGEND</th><th>SERIES</th><th>SIZE</th><th>MOUNTING</th><th>QTY</th></tr><tr><td>③①</td><td></td><td>W23-101</td><td>96 "X48 "</td><td>TYPE III BARRICADE</td><td>2</td></tr><tr><td colspan="5">TYPE B FLASHERS</td><td>32</td></tr></table>																KEY	LEGEND	SERIES	SIZE	MOUNTING	QTY	③①		W23-101	96 "X48 "	TYPE III BARRICADE	2	TYPE B FLASHERS					32
KEY	LEGEND	SERIES	SIZE	MOUNTING	QTY																																								
③①		W23-101	96 "X48 "	TYPE III BARRICADE	2																																								
TYPE B FLASHERS					32																																								
⑥		M4-9SL	30 "X24 "	TYPE B POST OR TYPE III BARRICADE (SEE NOTE 3)	6	⑮		R11-3A R11-3B	60 "X30 " 48 "X12 "	TYPE III BARRICADE (SEE NOTE 2) (SEE NOTE 3)	2	⑳		M4-8 M1-8A	12 "X6 " 12 "X36 "	TYPE F POST TYPE B POST (SEE NOTE 3)	2																												
⑦		M4-9-1BL	30 "X24 "	TYPE B POST OR TYPE III BARRICADE	1	⑯		R11-3A R11-3B	60 "X30 " 48 "X12 "	TYPE III BARRICADE (SEE NOTE 2)	2		②④		M4-8 M1-8	12 "X6 " 12 "X30 "	TYPE B POST (SEE NOTE 3)	3																											
⑧		M4-8A	24 "X18 "	TYPE F POST (SEE NOTE 3)	5	⑰		R11-3A R11-3B	60 "X30 " 48 "X12 "	TYPE III BARRICADE (SEE NOTE 2)	2		②⑤		M4-8 M1-8	12 "X6 " 12 "X30 "	TYPE B POST (SEE NOTE 3)	2																											
⑨		M4-9S	30 "X24 "	TYPE B POST OR TYPE III BARRICADE (SEE NOTE 3)	36	⑱		M4-10R	48 "X18 "	TYPE F	2																																		
						⑲		M4-10L	48 "X18 "	TYPE F (SEE NOTE 3)	2																																		
<div>NOTES: 1. PROVIDE SUFFICIENT TYPE III BARRICADES TO CLOSE ENTIRE ROADWAY AND SHOULDERS. 2. PROVIDE TYPE B FLASHERS. 3. FOR ALL TEMPORARY TRAFFIC SIGNS TO BE PLACED IN DELAWARE, PROVIDE SIGNS MEETING REQUIREMENTS PER THE DELAWARE MUTCD (DEMUTCD) AND PER THE DELAWARE APPROVED PRODUCTS LIST.</div>																																													
TRAFFIC CONTROL PLAN																																													





FILE\\N:\PAK-2026010_00_E00659 D6 Delaware City Bridge\SR 3101_Road Hill_Road Plans\02 TCP\23-3101-DRB-TCP01-003-Sign Detail.s01.dgn TIME: 9/15/2023 9:31:44 AM DATE: 9/15/2023 GREENMAN-PEDERSEN, INC.

DISTRICT	COUNTY	ROUTE	SECTION	SHEET	
6-0	DELAWARE	3101	DRB	3 OF 5	
6-0	CHESTER	3100	DRB		
CHADDS FORD AND PENNSBURY TOWNSHIPS					
REVISION NUMBER	REVISIONS			DATE	BY

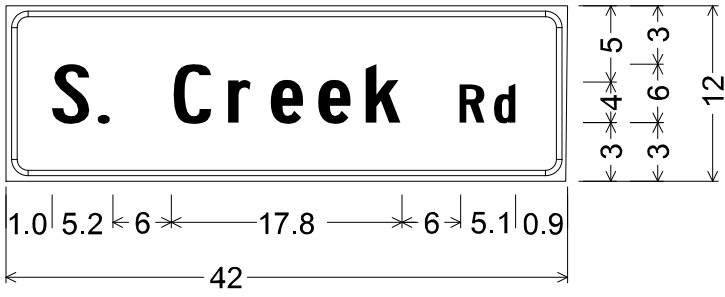


1.5" Radius, 0.4" Border, 0.4" Indent, Black on Orange;
"S. CREEK RD", B;
Table of distances between letter and object lefts

	S	.	C	R	E	E	K	R	D	
1.9	2.3	5.2	2.3	2.4	2.1	2.1	4.8	2.4	1.7	1.8

SP-1

NOT TO SCALE

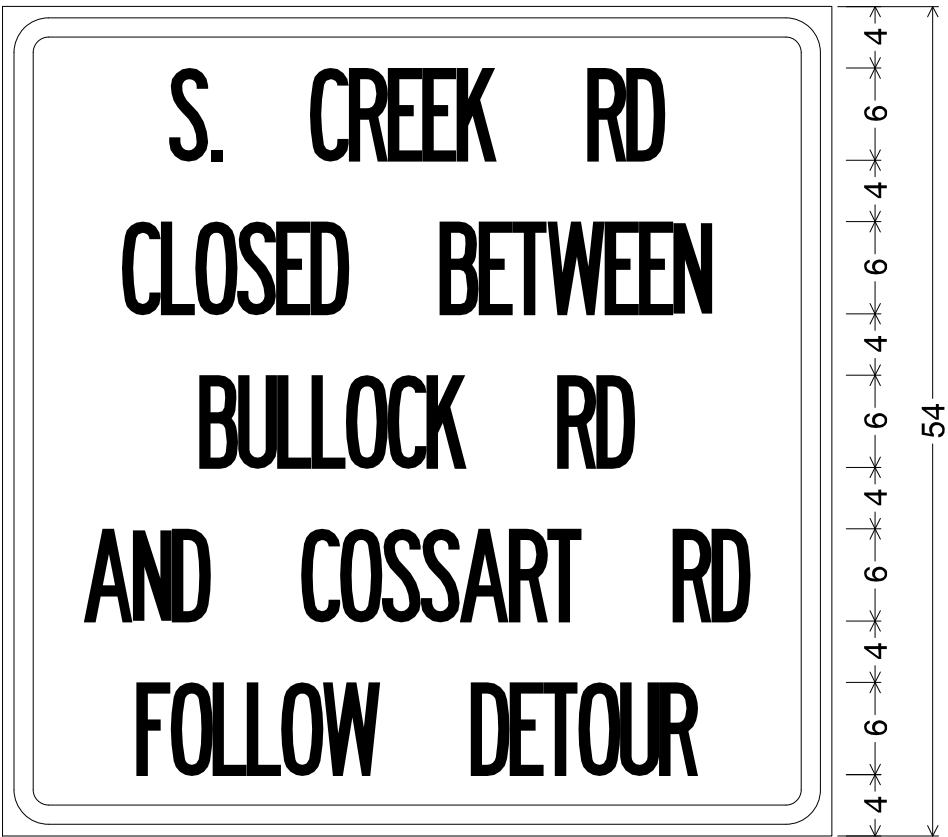


1.5" Radius, 0.4" Border, 0.4" Indent, Black on Orange;
"S. Creek Rd", C;
Table of distances between letter and object lefts

	S	.	C	r	e	e	k	R	d	
1.0	4.0	7.2	4.4	2.5	3.7	3.8	9.4	2.7	2.4	0.9

SP-2

NOT TO SCALE

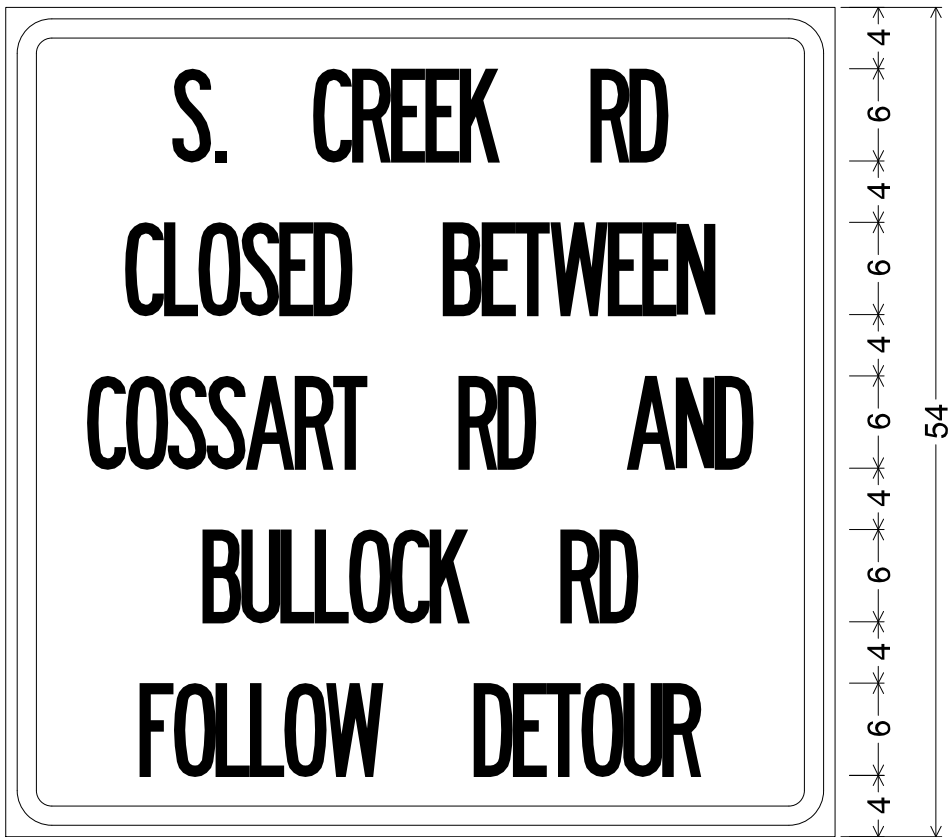


3.0" Radius, 1.3" Border, 0.8" Indent, Black on Orange;
"S. CREEK RD" White, Highway B;
"CLOSED BETWEEN" White, Highway B;
"BULLOCK RD" White, Highway B;
"AND COSSART RD" White, Highway B;
"FOLLOW DETOUR" White, Highway B;
Table of distances between letter and object lefts

10.6	S	3.2	7.2	C	R	E	E	K	R	D	2.5	10.5				
5.8	C	L	3.2	O	S	3.7	E	D	B	E	T	W	E	E	N	
	B	U	L	L	O	C	S	K	R	D	2.5	12.2				
12.2	3.7	3.7	3.2	3.2	3.6	C	3.4	8.6	3.7	D	2.5	12.2				
4.0	A	N	D	8.5	C	3.6	S	3.4	A	R	3.4	8.3	3.7	D	2.5	3.9
6.6	F	O	L	3.2	L	O	6.8	D	E	T	O	U	R	2.5	6.6	

SP-3

NOT TO SCALE

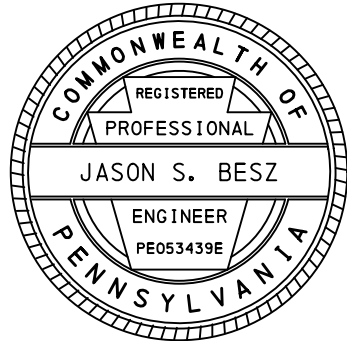


3.0" Radius, 1.3" Border, 0.8" Indent, Black on Orange;
"S. CREEK RD" White, Highway B;
"CLOSED BETWEEN" White, Highway B;
"COSSART RD AND" White, Highway B;
"BULLOCK RD" White, Highway B;
"FOLLOW DETOUR" White, Highway B;
Table of distances between letter and object lefts

10.1	S	4	C	R	E	E	K	R	D	3.1	10.1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
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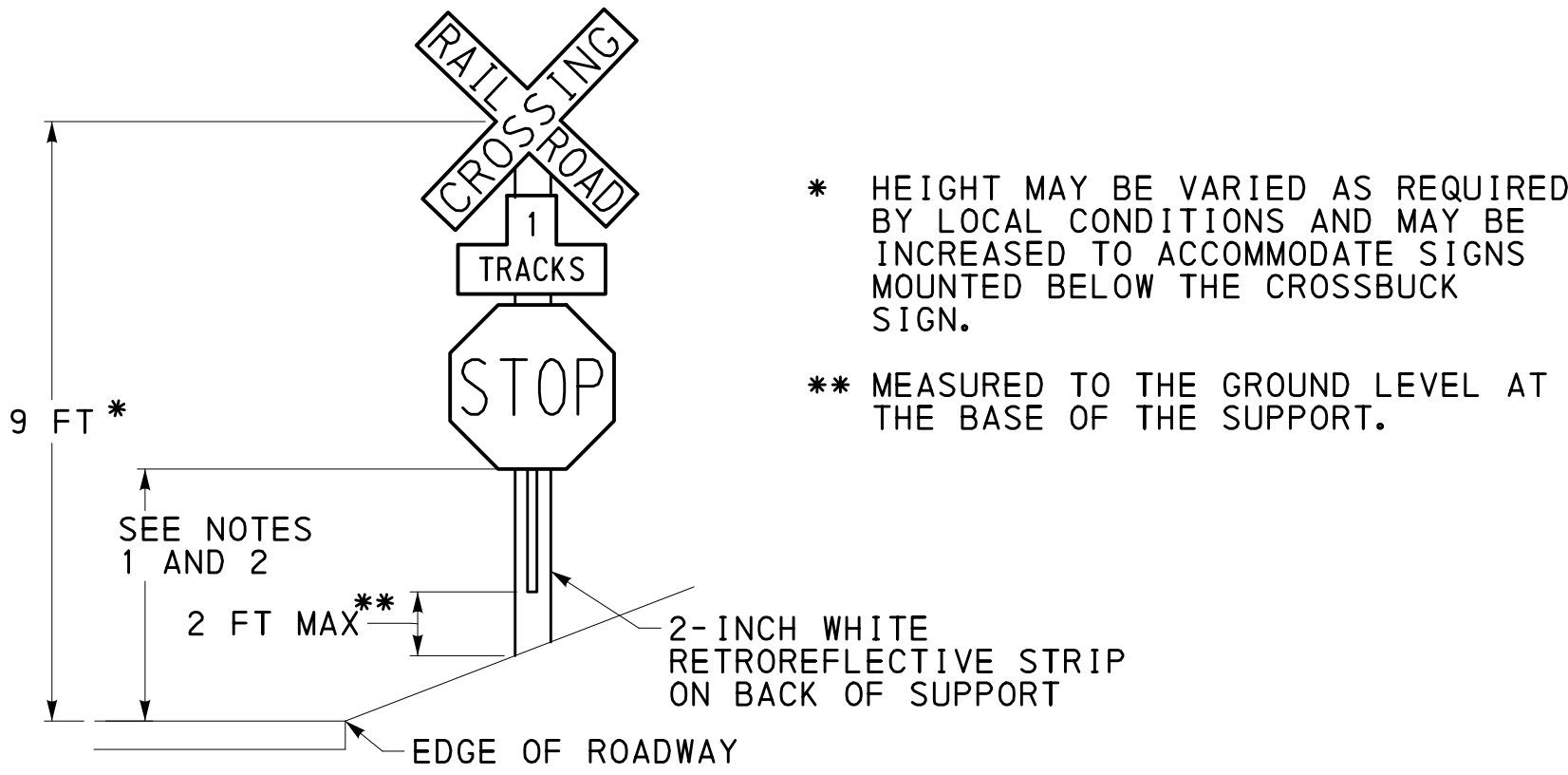
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NOT TO SCALE



FILE\\PAK-2026010_00_E00555.D6 Del Norte City Bridge\SR 3101 Proj\H11_R01\plans\02_TCD\23-3101-DRB_TCD03-001- PLAN STA 95+00.dgn
TIME: 9/31/21 AM
DATE: 9/15/2023
GREENMAN-PEDERSEN, INC.

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	DELAWARE	3101	DRB	4 OF 5
6-0	CHESTER	3100	DRB	
CHADDS FORD AND PENNSBURY TOWNSHIPS				
REVISION NUMBER	REVISIONS		DATE	BY



DETAIL A

NOT TO SCALE

CROSSBUCK ASSEMBLY WITH A YIELD OR STOP SIGN ON THE CROSSBUCK SIGN SUPPORT

NOTES:

1. MOUNTING HEIGHT TO BE AT LEAST 4 FEET FOR INSTALLATIONS OF YIELD OR STOP SIGNS ON EXISTING CROSSBUCK SIGN SUPPORTS.
2. MOUNTING HEIGHT TO BE AT LEAST 7 FEET FOR NEW INSTALLATIONS IN AREAS WITH PEDESTRIAN MOVEMENTS OR PARKING.

START WORK
BEGIN MILL AND OVERLAY
STA 95+65.00
SEG 0020 OFFSET 3188
SR 3100 SEC DRB

LIMIT OF WORK
STA 95+15.00
SEG 0020 OFFSET 3138
SR 3100 SEC DRB
PENNSBURY TOWNSHIP
CHESTER COUNTY

CONSTRUCTION
ENTRANCE
AHEAD

W25-5
36"X36"

PLAN

SCALE

0 25 50 FEET

STOP WORK
STA 101+65.56
SEG 0020 OFFSET 3789
SR 3100 SEC DRB

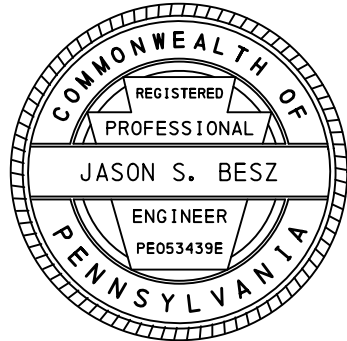
START WORK
STA 101+65.56
SEG 0010 OFFSET 0000
SR 3101 SEC DRB

LEGEND

- TEMPORARY TRAFFIC CONTROL SIGN
- TYPE III BARRICADE

NOTES:

1. FOR GEOMETRY INFORMATION RELATED TO SR 3100/SR 3101 AND TEMPORARY ACCESS ROAD, SEE THE APPROVED EROSION & SEDIMENT POLLUTION CONTROL PLANS.
2. FOR ADDITIONAL DETAILS AND LAYOUT INFORMATION FOR TEMPORARY ACCESS ROADS, SEE THE APPROVED EROSION & SEDIMENT POLLUTION CONTROL PLANS.
3. SR 3100/SR 3101 CLOSED TO TRAFFIC. SEE DETOUR PLAN ON SHEET 1 FOR ADDITIONAL INFORMATION.
4. COORDINATE INSTALLATION OF TEMPORARY AT-GRADE CROSSING (BY OTHERS) WITH EAST PENN RAILROAD. MATERIAL FOR TEMPORARY ACCESS ROAD APPROACHING TEMPORARY AT GRADE CROSSING TO BE CONSTRUCTED BY CONTRACTOR.



TRAFFIC CONTROL PLAN

