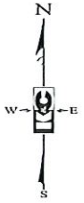
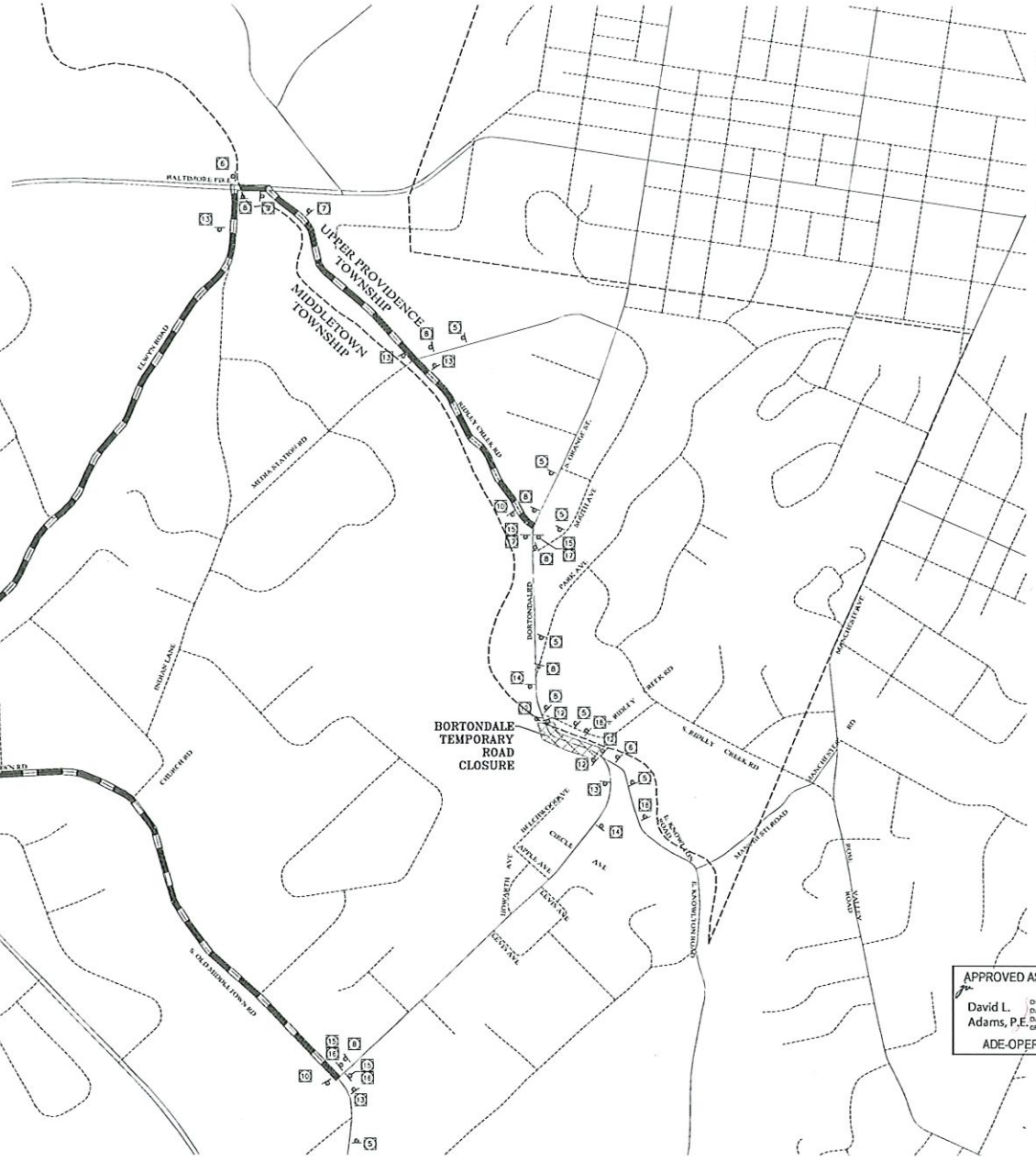
LOCATION MAP N.T.S.





5	W20-2 W30-1-6	DETOUR AHEAD	
6	W4-9L	DETOUR	
7	W4-9SL	DETOUR	
8	W4-9R	DETOUR	
9	W4-9SR	DETOUR	
10	W4-9A	END DETOUR	
11		BORTONDALE RD	
12	R11-2	ROAD CLOSED	
13	W4-9S	DETOUR	
14	W20-3 W30-1-6	ROAD CLOSED AHEAD	
15	R11-4	ROAD CLOSED TO THRU TRAFFIC	
16		MANCHESTER RD FOLLOW BORTONDALE RD DETOUR	
16	W4-10L	DETOUR	
17	W4-10R	DETOUR	

MPT NOTES

1. All distances may be adjusted slightly to fit field conditions.
2. All flaggers must be in communication with each other.
3. Each flagger should be clearly visible to the traffic which is being controlled for a minimum distance of A.
4. During hours of darkness, all signs shall be retroreflectorized or illuminated, each advance warning sign shall have a Type B light, and each flagger shall wear a retroreflectorized outer garment. Illumination of each flagger station is desirable, but not required. When a flagger station has not been illuminated, a flashlight with a red wand or one or more flares shall be used to supplement the retroreflectorized W21-10 Sign.
5. For operations 60 minutes or less in duration, a taper is not required. If a vehicle with an activated flashing or revolving yellow light is located in the closed lane between Flagger No. 1 and the work area. When a taper is not installed, Flagger No. 1 may be a minimum of 100' from the rear of the vehicle with an activated flashing or revolving yellow light.
6. For operations 15 minutes or less in duration, the following applies:
   a. The W21-7 signs are not required.
   b. All channeling devices may be eliminated if a vehicle with an activated flashing or revolving yellow light is present in advance of the work area.
   c. The W20-7a sign is not required when the flagger is clearly visible to approaching traffic for a minimum distance of A.

DETOUR NOTES

1. All distances may be adjusted slightly to fit field conditions.
2. Post sign #11 above all signs (#12,3,4,5,6,7,8,9,10,17,19,20,21,22,26,27,28, and 29.
3. All W20-2 and W20-3 signs shall be a minimum size of 48"x 48" for freeways and expressways, and 36"x 36" minimum for all other highways. All W4-SERIES, signs shall be a minimum size of 48"x 36" for freeways and expressways, and 30"x 24" minimum for all other highways.
4. During hours of darkness, all signs shall be retroreflectorized or illuminated.
5. Existing traffic control devices shall be modified as needed for the duration of the detour.
6. Unless otherwise specified, all traffic control devices for the detour shall be furnished, erected, modified, maintained, and subsequently removed by the contractor or by the permittee for permit operations.
7. All detours involving State-designated highways shall have the prior approval of the Department, and all detours involving local highways shall have the prior approval of the appropriate local authorities.
8. At locations where there are overlapping detours or several detours within the same area, street names may be added to the W4-SERIES signs, or different colored arrows may be used to designate the different detour routes. The design and application of signs displaying colored arrows shall comply with Chapter 212 (relating to official traffic control devices).
9. All Flaggers must be in communication with each other.
10. Each flagger should be clearly visible to the traffic which is being controlled.
11. PennDOT DISTRICT 6 Press office to be notified about road closure 2 weeks prior to start of job. (610)-205-6800
12. Post Item 2931-0001 two (2) weeks prior to any road closure.
13. Barricades must be placed to allow movement thru intersections, removed at the end of each day and turned away from traffic.
14. Flagmen to be provided as needed at intersections to enable work to be done in half widths.
15. No open trenches will be permitted at night.
16. Adequate reflective barricades for equipment left on the roadway to be provided.
17. Absolutely no sidewalk are to be blocked and no emergency services denied access.
18. Refer to PennDOT Pub. 213, dated February 2022, Figure 30b for sign sizes and spacing.

APPROVED AS NOTED

David L. Adams, P.E.

Digitally signed by David L. Adams P.E.
Date: 2021.10.20 08:02:31 -04'00'

ADE-OPERATIONS

LEGEND

SYMBOL	DESCRIPTION
	ROAD CLOSED
	DETOUR ROUTE
	LOCAL ROAD
	STATE ROAD
	MUNICIPAL BOUNDARY
1	SIGN INDICATOR

GRAPHIC SCALE

(IN FEET)
1 inch = 400 ft.

KELLY ENGINEERS
CONSULTING ENGINEERS & SURVEYORS
30 LaCrue Avenue, Suite 201
Glen Mills, Pennsylvania 19342
610.358.9363 fax 610.358.9375

DATE	DESCRIPTION

DATE	AUG. 22, 2021
SCALE	1" = 400'
DRAWN by	W.J.B.
Checked by	J.P.K.
dwg name	0070.dgn
project no.	UPP04-111

BORTONDALE PUMP STATION IMPROVEMENTS

UPPER PROVIDENCE TOWNSHIP
DELAWARE COUNTY, PENNSYLVANIA

DETOUR & MPT PLAN

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SHEET 1 of 1