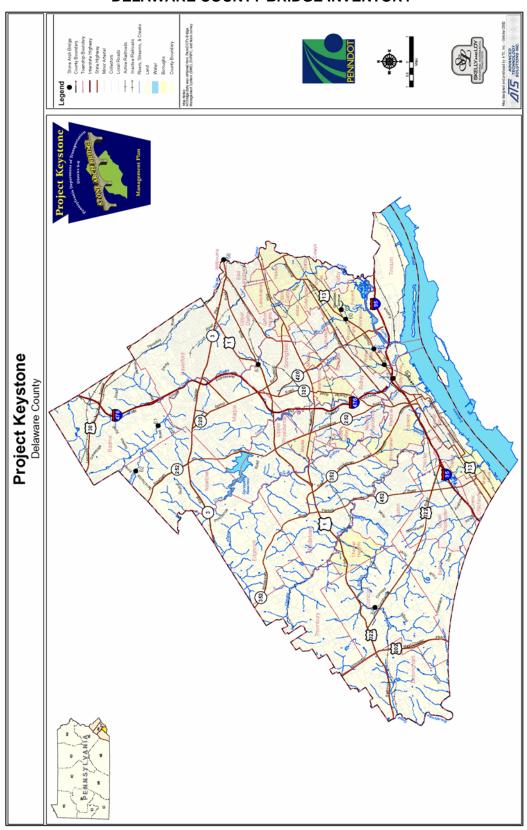
APPENDIX D -DELAWARE COUNTY BRIDGE INVENTORY



APPENDIX D DELAWARE COUNTY BRIDGE INVENTORY





PENNSYLVANIA DEPARTMENT OF TRANSPORTATION BUREAU OF DESIGN

ENVIRONMENTAL QUALITY ASSURANCE DIVISION

### **PENNSYLVANIA HISTORIC BRIDGE INVENTORY & EVALUATION**

DIST: 6 **UTM:** 18/478790/4423507 BMS #: 23000302402055 **OLD BMS #:** 23000302402236 **OWNER:** COMBINATION CTY: DELAWARE MUNICIPALITY : UPPER DARBY **LOCATION :** DELAWARE/PHILADELPHIA LINE FACILITY CARRIED: SR 3 (WEST CHESTER PIKE/MARKET STREET) NAME/FEATURE INTERSECTED : SR 3 OVER COBBS CREEK/SEPTA **TYPE**: CLOSED SPANDREL ARCH **DESIGN**: MATERIAL : STONE **#SPANS :** 2 **LENGTH:** 56 (17.1 m) WIDTH: 74.9 (22.8 m) **YR BUILT :** 1900 ALTERATION: 1907 **SOURCE:** TURNPIKE HISTORY DESIGNER/BUILDER : PHILADELPHIA & W. CHESTER TURNPIKE CO CURRENT NATIONAL REGISTER INDIVIDUAL ELIGIBILITY : Eligible CURRENT NATIONAL REGISTER CONTRIBUTING STATUS: Not Contributing

The Upper Darby, West Chester Pike Bridge is owned by a combination of different entities and is ranked 108<sup>th</sup>.

Condition Code = 48 - moderate Transportation Code = 45 - moderate Waterway Adequacy Code = 59 - high Cost to Rehabilitate or Replace Code = 25 - very low Anticipated Development Code = 38 - very low Recreational, Historical, and Cultural Values Code = 50 - moderate Public Input Code = 42 - low



This bridge is not recommended for long-term preservation. It ranks in the lowest third of the stone arch bridge population under study in this plan. It has a moderate condition code, a result of extensive scour and loose stones. Its transportation code borders on low, a result of high traffic volumes. The bridge stands in an area of high development potential, and its already high traffic volumes will increase. The bridge would be relatively expensive to rehabilitate to its historic appearance, a result of several alterations (it has been widened at least twice). Its waterway is adequate. The bridge is individually eligible for listing in the National Register of Historic Places and it is near a greenway; its values code is moderate. The bridge has received limited public support (two questionnaires).







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# **PENNSYLVANIA HISTORIC BRIDGE INVENTORY & EVALUATION**

BMS #: 23001301500000 DIST: 6 **UTM:** 18/470955/4422053 OLD BMS # : CTY: DELAWARE **OWNER:** PENNDOT **MUNICIPALITY :** EDDYSTONE **LOCATION:** . EDDYSTONE-RIDLEY LINE FACILITY CARRIED: US 13 (CHESTER PIKE) NAME/FEATURE INTERSECTED: US 13 OVER CRUM CREEK **TYPE:** CLOSED SPANDREL ARCH **DESIGN**: **MATERIAL : STONE #SPANS :** 2 **LENGTH:** 50 (15.2 m) WIDTH: 72.3 (22.0 m) **SOURCE : STYLE** YR BUILT : 1825CA **ALTERATION :** 1915CA, 1926 DESIGNER/BUILDER : CURRENT NATIONAL REGISTER INDIVIDUAL ELIGIBILITY : Not Eligible CURRENT NATIONAL REGISTER CONTRIBUTING STATUS : Not Contributing

The Eddystone, Chester Pike Bridge is owned by PennDOT and is ranked 124<sup>th</sup>.

Condition Code = 48 - moderate Transportation Code = 45 - moderate Waterway Adequacy Code = 40 - low Cost to Rehabilitate or Replace Code = 26 - very low Anticipated Development Code = 28 - very low Recreational, Historical, and Cultural Values Code = 34 - very low Public Input Code = 35 - very low



This bridge is not recommended for long-term preservation. It is among the lowest ranked of all the stone arch bridges under study in this plan. The bridge lacks historic integrity. It has been encased in concrete and has a steel beam added to one side. Because of its many alterations, the cost to rehabilitate the bridge to its historic fabric and form is high. Its waterway is inadequate, leading to occasional flooding. Waterway adequacy is virtually impossible to correct; it is a function of the size of the arch barrel, the bridge's main structural element, which cannot be widened. The bridge's transportation code is moderate, a result of high traffic volumes. Its setting is in a largely urban area, with traffic likely to increase in the future; therefore, its development code is very low. The bridge is not listed in or eligible for listing in the National Register of Historic Places individually or as part of a historic district, and it is not part of a park, natural area, or greenway. The bridge has received no public comment.







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### PENNSYLVANIA HISTORIC BRIDGE INVENTORY & EVALUATION

BMS #: 23001301600879	<b>DIST:</b> 6	UTM: 18/471635/4413356		
OLD BMS # :	CTY: DELAWARE	OWNER: PENNDOT		
MUNICIPALITY : RIDLEY PARK	LOCATION :	WEST RIDLEY PARK		
FACILITY CARRIED : US 13 (CHESTER PIKE)				
NAME/FEATURE INTERSECTED: US 13 OVER LITTLE CRUM CREEK				
<b>TYPE :</b> CLOSED SPANDREL ARCH <b>DESIGN :</b>				
MATERIAL : STONE				
<b>#SPANS:</b> 1 LENGTH: 17 (5	5.2 m) WI	<b>DTH:</b> 61.5 (18.7 m)		
YR BUILT : 1825CA	LTERATION : 1926	SOURCE : STYLE		
DESIGNER/BUILDER :				
CURRENT NATIONAL REGISTER INDIVIDUAL ELIGIBILITY : Not Eligible				
CURRENT NATIONAL REGISTER CONTRIBUTING STATUS : Not Contributing				

The Ridley Park, Chester Pike Bridge is owned by PennDOT and is ranked 116<sup>th</sup>.

Condition Code = 59 -high Transportation Code = 45 - moderate Waterway Adequacy Code = 40 - low Cost to Rehabilitate or Replace Code = 31 - very low Anticipated Development Code = 48 - moderate Recreational, Historical, and Cultural Values Code = 33 - very low Public Input Code = 35 - very low



This bridge is not recommended for long-term preservation. It is one of the lowest ranked stone arch bridges under study in this plan. It has been widened on both sides with concrete, and stone is visible only in the center of the arch barrel; it has the appearance of a concrete arch bridge. Because of its alterations, the bridge would be expensive to rehabilitate to its historic fabric and form. Its waterway is inadequate, leading to occasional flooding. Waterway adequacy is virtually impossible to correct; it is a function of the size of the arch barrel, the bridge's main structural element, which cannot be widened. Its transportation code borders on low, a result of high traffic volumes. Located in an area of moderate development potential, its traffic would be expected to increase in the future, exacerbating an already low transportation code. The bridge is not listed in or eligible for listing in the National Register of Historic Places individually or as part of a historic district, and it is not part of a park, natural area, or greenway; its values code is very low. The bridge received no public comment.





### **BRIDGE NO: 59**



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# **PENNSYLVANIA HISTORIC BRIDGE INVENTORY & EVALUATION**

BMS #: 23001301800000 **DIST:** 6 **UTM:** 18/472778/4414092 OLD BMS # : CTY: DELAWARE **OWNER:** PENNDOT MUNICIPALITY : RIDLEY LOCATION: 0.7 MILE S OF SR 420 FACILITY CARRIED: US 13 (CHESTER PIKE) NAME/FEATURE INTERSECTED : US 13 OVER STONEY BROOK CREEK **TYPE:** CLOSED SPANDREL ARCH **DESIGN**: **MATERIAL : STONE #SPANS:**1 **LENGTH:** 20 (6.1 m) WIDTH: 63.5 (19.4 m) YR BUILT : 1825CA **ALTERATION :** 1915CA, 1926 **SOURCE :** STYLE DESIGNER/BUILDER : CURRENT NATIONAL REGISTER INDIVIDUAL ELIGIBILITY : Not Eligible CURRENT NATIONAL REGISTER CONTRIBUTING STATUS: Not Contributing

The Ridley, Chester Pike Bridge is owned by PennDOT and is ranked 107<sup>th</sup>.

Condition Code = 55 - high Transportation Code = 45 - moderate Waterway Adequacy Code = 59 - high Cost to Rehabilitate or Replace Code = 32 - very low Anticipated Development Code = 48 - moderate Recreational, Historical, and Cultural Values Code = 34 - very low Public Input Code = 35 - very low



This bridge is not recommended for long-term preservation. It is one of the lowest ranked stone arch bridges under study in this plan. It has been encased with concrete, and stone is visible only in the center of the arch barrel; it appears to be a concrete arch bridge. Because of its alterations, it would be expensive to rehabilitate the bridge to its historic fabric and form. The bridge's transportation code borders on low, a result of high traffic volumes. Located in an area of moderate development potential, its traffic would be expected to increase in the future. The bridge is not listed in or eligible for listing in the National Register of Historic Places individually or as part of a historic district, and it is not part of a park, natural area, or greenway; its values code is very low. The bridge received no public comment.







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# **PENNSYLVANIA HISTORIC BRIDGE INVENTORY & EVALUATION**

BMS #: 23001302002035 **DIST:** 6 **UTM:** 18/474779/4415750 OLD BMS # : CTY: DELAWARE **OWNER:** PENNDOT **MUNICIPALITY :** GLENOLDEN LOCATION: 1 MI NORTH OF PA 420 FACILITY CARRIED: US 13 (CHESTER PIKE) NAME/FEATURE INTERSECTED: US 13 OVER MUCKINIPATTUS CREEK **TYPE:** CLOSED SPANDREL ARCH **DESIGN**: **MATERIAL :** STONE **#SPANS:**1 **LENGTH:** 28 (8.5 m) WIDTH: 67.5 (20.6 m) **SOURCE : STYLE** YR BUILT : 1825CA **ALTERATION :** 1925 **DESIGNER/BUILDER** : CURRENT NATIONAL REGISTER INDIVIDUAL ELIGIBILITY : Not Eligible CURRENT NATIONAL REGISTER CONTRIBUTING STATUS: Not Contributing

The Glenolden, Chester Pike Bridge is owned by PennDOT and is ranked 117<sup>th</sup>.

Condition Code = 63 - very high Transportation Code = 45 - moderate Waterway Adequacy Code = 40 - low Cost to Rehabilitate or Replace Code = 27 - very low Anticipated Development Code = 48 - moderate Recreational, Historical, and Cultural Values Code = 33 - very low Public Input Code = 35 - very low



This bridge is not recommended for long-term preservation. It is one of the lowest ranked stone arch bridges under study in this plan. It has been encased with concrete, and stone is visible only in the center of the arch barrel; it appears to be a concrete arch bridge. Because of its alterations, it would be expensive to rehabilitate the bridge to its historic fabric and form. The bridge's transportation code borders on low, a result of high traffic volumes. Located in an area of moderate development potential, its traffic would be expected to increase in the future. The bridge is not listed in or eligible for listing in the National Register of Historic Places individually or as part of a historic district, and it is not part of a park, natural area, or greenway. Its values code is very low. The bridge received no public comment.







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# **PENNSYLVANIA HISTORIC BRIDGE INVENTORY & EVALUATION**

BMS #: 23103400603474 DIST: 6 **UTM:** 18/468275/4427983 OLD BMS # : CTY: DELAWARE **OWNER:** PENNDOT **MUNICIPALITY :** RADNOR LOCATION : SW RADNOR TOWNSHIP FACILITY CARRIED : GOSHEN ROAD NAME/FEATURE INTERSECTED : GOSHEN ROAD OVER DARBY CREEK **TYPE:** CLOSED SPANDREL ARCH **DESIGN**: **MATERIAL : STONE #SPANS :** 3 **LENGTH:** 84 (25.6 m) WIDTH: 28.8 (8.8 m) **YR BUILT :** 1905 **ALTERATION:** 1990CA **SOURCE : PLAOUE DESIGNER/BUILDER:** THEOPHILUS P. CHANDLER/J. A. MORRIS CURRENT NATIONAL REGISTER INDIVIDUAL ELIGIBILITY : Listed 6/22/88 CURRENT NATIONAL REGISTER CONTRIBUTING STATUS: Not Contributing

The Radnor, Goshen Road Bridge is owned by PennDOT and is ranked 47<sup>th</sup>.

Condition Code = 44 - low Transportation Code = 45 - moderate Waterway Adequacy Code = 59 -high Cost to Rehabilitate or Replace Code = 58 - high Anticipated Development Code = 58 - high Recreational, Historical, and Cultural Values Code = 54 - high Public Input Code = 42 - very low



This bridge is recommended for long-term preservation. PennDOT has agreed to make a shortterm commitment to the bridge. In 2007, the arch barrels will be repaired, and the abutments, piers, and all wing walls will be repointed. This should improve the bridge's low condition code. Its transportation code is moderate, bordering on low, a result of high volumes of traffic. However, the bridge stands in an area of low development potential, and it is relatively wide for a stone arch bridge; therefore, it should be able to carry its traffic for some time. Waterway adequacy is high. The bridge has integrity, making it relatively inexpensive to rehabilitate its historic fabric and form. The bridge is listed in the National Register of Historic Place, but it is not within or near a greenway, natural area, or park. The bridge has received some public comment (two emails).







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# **PENNSYLVANIA HISTORIC BRIDGE INVENTORY & EVALUATION**

BMS #: 23104600400126 **DIST:** 6 **UTM:** 18/466152/4430582 **OLD BMS #:** 23104600400102 CTY: DELAWARE **OWNER:** PENNDOT MUNICIPALITY : NEWTOWN LOCATION: 1 MILE WEST OF NEWTOWN ROAD FACILITY CARRIED: ST. DAVIDS ROAD (BROOKE ROAD) NAME/FEATURE INTERSECTED: ST. DAVIDS ROAD OVER DARBY CREEK **TYPE:** CLOSED SPANDREL ARCH **DESIGN**: **MATERIAL :** STONE **#SPANS:**1 **LENGTH:** 26 (7.9 m) WIDTH: 28 (8.5 m) **SOURCE : PLAQUE YR BUILT :** 1810 **ALTERATION :** 1960CA **DESIGNER/BUILDER : THOMAS WELCH** CURRENT NATIONAL REGISTER INDIVIDUAL ELIGIBILITY : Not Eligible CURRENT NATIONAL REGISTER CONTRIBUTING STATUS: Not Contributing

The Newtown, St. David's Road Bridge is owned by PennDOT and is ranked 95<sup>th</sup>.

Condition Code = 48 - moderate Transportation Code = 43 - low Waterway Adequacy Code = 53 - moderate Cost to Rehabilitate or Replace Code = 39 - very low Anticipated Development Code = 58 - high Recreational, Historical, and Cultural Values Code = 51 - moderate Public Input Code = 35 - very low



This bridge is not recommended for long-term preservation. Although the bridge contributes to a local historic district, it is ranked in the lowest third of all stone arch bridges under study in this plan, and it was previously placed on the Transportation Improvement Program (TIP) to be replaced. High traffic volumes and poor sight distances at the approaches result in a low transportation code. The bridge would be relatively expensive to rehabilitate to its historic fabric and form, as portions of the bridge have been encased in concrete and concrete has also been added to the buttresses. The waterway is adequate, but the bridge has experienced scour problems, resulting in a moderate condition code. The bridge stands in an area with low potential for development; its traffic is not expected to increase substantially in the future. However, the bridge has received no public comment, and it is not listed in or eligible for listing in the National Register of Historic Places individually or as part of a historic district.







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# **PENNSYLVANIA HISTORIC BRIDGE INVENTORY & EVALUATION**

BMS #: 23201601700000 **DIST:** 6 **UTM:** 18/475790/4420001 CTY: DELAWARE OLD BMS # : **OWNER:** PENNDOT MUNICIPALITY : CLIFTON HEIGHTS LOCATION : LANSDOWNE LINE FACILITY CARRIED : BALTIMORE PIKE (OLD US 1) NAME/FEATURE INTERSECTED : BALTIMORE PIKE OVER DARBY CREEK **TYPE:** CLOSED SPANDREL ARCH **DESIGN**: **MATERIAL : STONE #SPANS :** 3 **LENGTH:** 72 (21.9 m) WIDTH: 49.5 (15.1 m) YR BUILT : 1815CA ALTERATION: 1919 **SOURCE:** TURNPIKE HISTORY **DESIGNER/BUILDER**: ALBERT DAMON/WILLIAM G. JUST (1919) CURRENT NATIONAL REGISTER INDIVIDUAL ELIGIBILITY : Not Eligible CURRENT NATIONAL REGISTER CONTRIBUTING STATUS : Not Contributing

The Clifton Heights, Baltimore Pike Bridge is owned by PennDOT and is ranked 115<sup>th</sup>.

Condition Code = 63 - very high Transportation Code = 45 - moderate Waterway Adequacy Code = 40 - low Cost to Rehabilitate or Replace Code = 31 - very low Anticipated Development Code = 48 - moderate Recreational, Historical, and Cultural Values Code = 35 - very low Public Input Code = 35 - very low



This bridge is not recommended for long-term preservation. It ranks in the lowest third of all of the stone arch bridges under study in this plan. The bridge has been extensively modified, including widening with concrete and the placement of concrete parapets. Consequently, it would be relatively expensive to rehabilitate the bridge to its historic fabric and form. Its inadequate waterway openings result in local flooding on a frequent basis, which is a problem for nearby residents. Waterway inadequacy is difficult to fix on a stone arch bridge; it is a function of the size of the arch barrel, the major structural element of the bridge. Widening the opening would require the bridge to be rebuilt. It has a transportation code bordering on low, a result of high traffic volumes and some sight-distance deficiencies. Traffic could increase in the future, exacerbating the already low transportation code. The bridge is not listed in or eligible for listing in the National Register of Historic Places individually or as part of a historic district, and it is not part of a park, natural area, or greenway. The bridge received little public comment; in fact, this bridge is the only bridge to be identified in a negative manner by a local resident, relating to the frequent flooding caused by the inadequate waterway. The person asked that it be replaced immediately to alleviate the frequent flooding problems (one questionnaire).







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# PENNSYLVANIA HISTORIC BRIDGE INVENTORY & EVALUATION

BMS #: 23300701300	DOOO DIST: 6 CTY: DELAWARE	<b>UTM:</b> 18/456104/4414354 <b>OWNER:</b> PENNDOT		
MUNICIPALITY : CONC	CORD LOCATION: 0.7 MIL	LOCATION: 0.7 MILE SOUTH OF CONCORDVILLE		
FACILITY CARRIED : CONCORD ROAD				
NAME/FEATURE INTERSECTED : CONCORD ROAD OVER CHESTER CREEK				
<b>TYPE :</b> CLOSED SPANDREL ARCH <b>DESIGN :</b>				
MATERIAL : STONE				
#SPANS: 1	<b>LENGTH:</b> 30 (9.1 m)	WIDTH: 30 (9.1 m)		
YR BUILT : 1898	ALTERATION: 1990	SOURCE: INSP FILE		
DESIGNER/BUILDER :				
CURRENT NATIONAL REGISTER INDIVIDUAL ELIGIBILITY : Not Eligible				
CURRENT NATIONAL REGISTER CONTRIBUTING STATUS: Not Contributing				

The Concord, Concord Road Bridge is owned by PennDOT and is ranked 106<sup>th</sup>.

Condition Code = 48 - moderate Transportation Code = 45 - moderate Waterway Adequacy Code = 53 - moderate Cost to Rehabilitate or Replace Code = 60 - very high Anticipated Development Code = 28 - very low Recreational, Historical, and Cultural Values Code = 43 - low Public Input Code = 35 - very low



This bridge is not recommended for long-term preservation. It ranks in the lowest third of all stone arch bridges under study in this plan, and it was previously programmed in the Transportation Improvement Program (TIP) to be replaced. The bridge has a moderate condition code resulting from moderate to severe scour problems. Its transportation code borders on low, a result of high traffic volumes. The bridge stands in an area of active development, where its traffic would be expected to increase in the future; this would exacerbate the already low transportation code. Its waterway is moderately adequate; local flooding is an occasional problem. The bridge is not listed in or eligible for listing in the National Register of Historic Places individually or as part of a historic district, and it is not part of a park, natural area, or greenway. The bridge has received no public comment.







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# **PENNSYLVANIA HISTORIC BRIDGE INVENTORY & EVALUATION**

BMS #: 23702304400143 **DIST:** 6 **UTM:** 18/475349/4415933 **OWNER:** DELAWARE COUNTY OLD BMS # : CTY: DELAWARE **MUNICIPALITY :** GLENOLDEN LOCATION: 0.25 MILE SE OF US 13 FACILITY CARRIED : GLENOLDEN AVENUE NAME/FEATURE INTERSECTED: GLENOLDEN AVENUE OVER MUCKINIPATTIS CREEK **TYPE:** CLOSED SPANDREL ARCH **DESIGN**: **MATERIAL : STONE #SPANS:**1 **LENGTH:** 20 (6.1 m) WIDTH: 45.7 (13.9 m) **YR BUILT :** 1943 **ALTERATION : SOURCE :** PLAOUE DESIGNER/BUILDER: H. C. THRONE, CO ENG/WALTER H. HIBBARD CURRENT NATIONAL REGISTER INDIVIDUAL ELIGIBILITY : Not Eligible CURRENT NATIONAL REGISTER CONTRIBUTING STATUS : Not Contributing

The Glenolden, Glenolden Avenue Bridge is owned by Delaware County and is ranked 102<sup>nd</sup>.

Condition Code = 59 - high Transportation Code = 47 - moderate Waterway Adequacy Code = 46 - moderate Cost to Rehabilitate or Replace Code = 45 - moderate Anticipated Development Code = 48 - moderate Recreational, Historical, and Cultural Values Code = 38 - very low Public Input Code = 35 - very low



This bridge is the youngest stone arch bridge under study in this plan (1943). However, it is not a strong candidate for long-term preservation, as it ranks in the lowest third of all the stone arch bridges under study in this plan. The bridge has scour problems, the waterway is marginally adequate, and some flooding does occasionally occur. The transportation code is moderate, a result of relatively high traffic volumes. These volumes are expected to increase, as the bridge is located in an area of moderate development. The bridge is not listed in or eligible for listing in the National Register of Historic Places individually or as part of a historic district, and it is not part of a greenway, natural area, or park. The bridge has received no public comment. The cost to rehabilitate this bridge is relatively expensive. The only positive is the bridge's condition, which is rated as good.

Recommendation: Not a strong candidate for long-term preservation.



