



INNOVATIVE SOLUTIONS USING D&G FUNDING

BRYAN D. KULAKOWSKY, P.E. – ARRO CONSULTING





BRYAN D. KULAKOWSKY, P.E.



Over twenty years of experience in civil engineering.

Municipal Engineer in Chester County, PA for Caln Township, Easttown Township, and West Vincent Township.

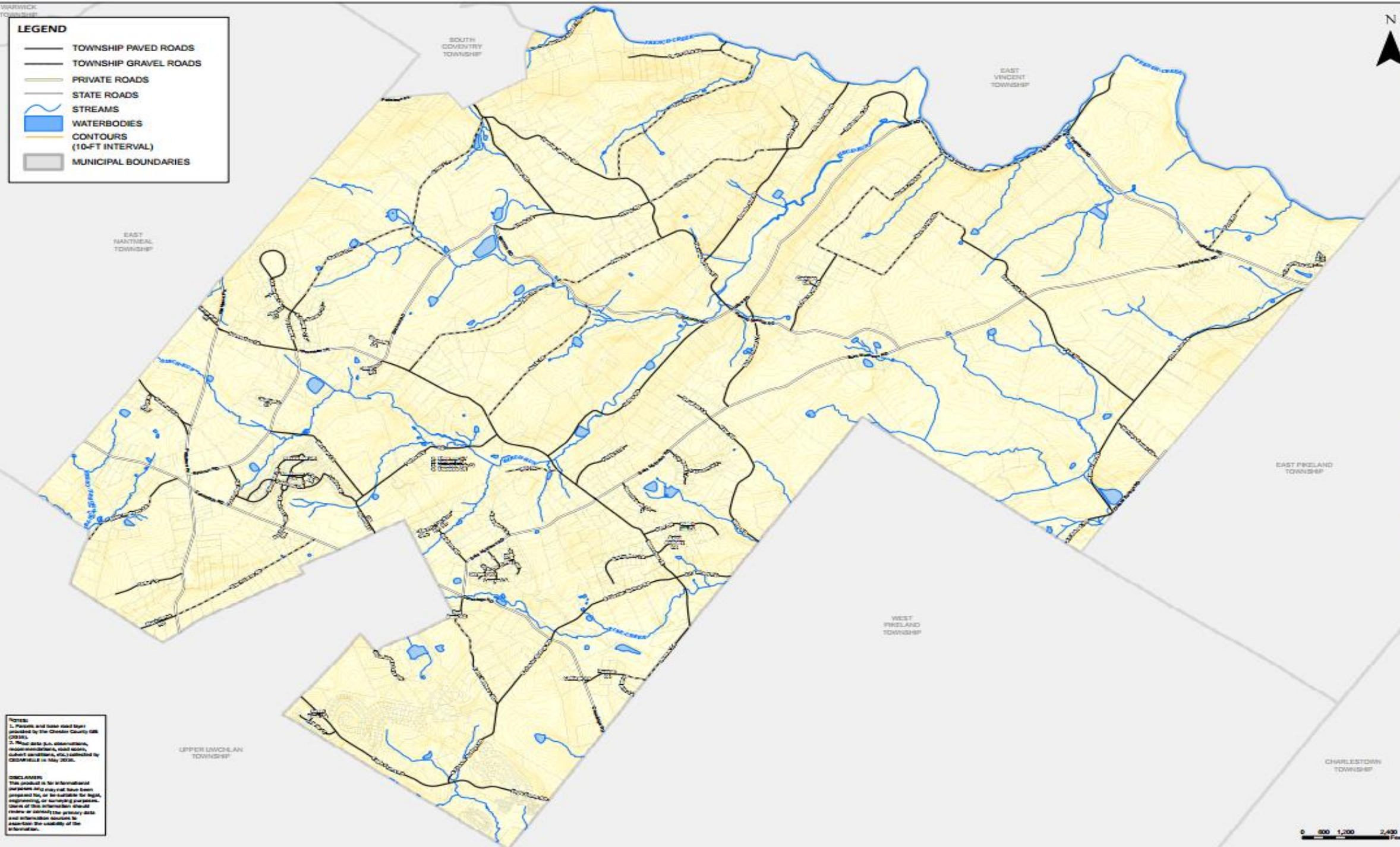
WEST VINCENT TOWNSHIP

- Established: 1832
- Total Area: 17.9 sq. miles
- Total Acres: 11,456
- Year 2010 Population: 4,567
- State Roads: 18.37 miles
- Township Roads:
 - Miles Paved: 31.76
 - Miles Gravel: 17.29



LEGEND

- TOWNSHIP PAVED ROADS
- TOWNSHIP GRAVEL ROADS
- PRIVATE ROADS
- STATE ROADS
- STREAMS
- WATERBODIES
- CONTOURS (10-FT INTERVAL)
- MUNICIPAL BOUNDARIES



NOTES:

1. Parcels and base road layer provided by the Chester County GIS (GIS).
2. Road data (i.e., administration, easement/encroachments, road signs, current conditions, etc.) published by CEDARVILLE in May 2024.

DISCLAIMER:
 This product is for informational purposes only and may not have been prepared for, or be suitable for legal, engineering, or planning purposes. Users of this information should review or verify the primary data and information sources to ascertain the reliability of the information.



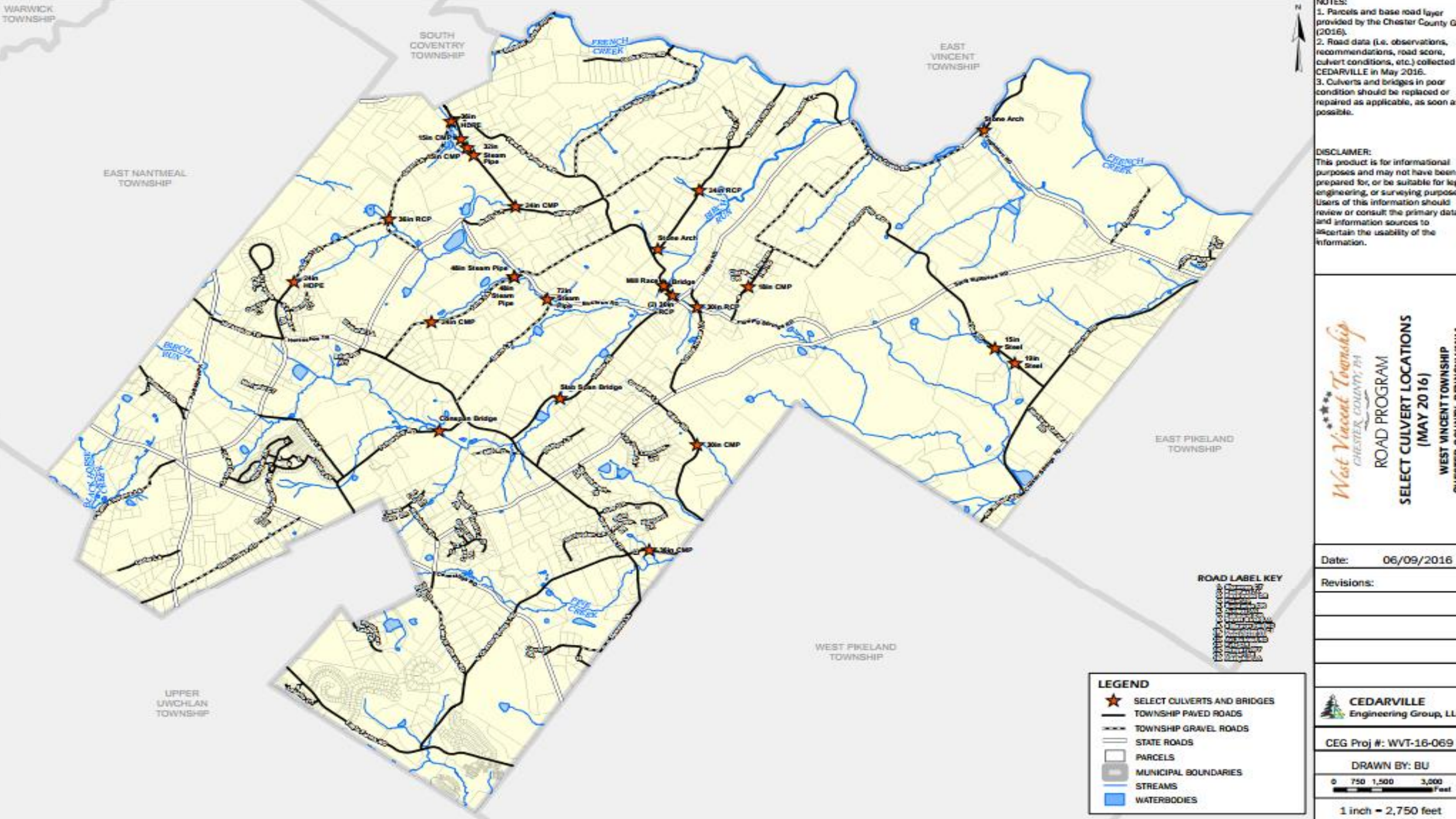
DATE	BY
05/20/2024	ML
05/20/2024	ML

CEDARVILLE Engineering Group, LLC
 1033 S Hanover Street, 300
 North Coventry, PA 19365
 610-705-8500 (office) 610-705-4900 (fax)
www.cedarvillellc.com

WEST VINCENT TOWNSHIP
ROAD PROGRAM
 CHESTER COUNTY, PA

West Vincent Township
 CHESTER COUNTY, PA
 729 N. Matthews Road
 Chester Springs, PA 19325
 610-656-1101

DESIGNED BY
 CHECKED BY
 SCALE: 1" = 1,000'



- NOTES:**
1. Parcels and base road layer provided by the Chester County GIS (2016).
 2. Road data (i.e. observations, recommendations, road score, culvert conditions, etc.) collected by CEDARVILLE in May 2016.
 3. Culverts and bridges in poor condition should be replaced or repaired as applicable, as soon as possible.

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West Vincent Township
 CHESTER COUNTY, PA
 ROAD PROGRAM
 SELECT CULVERT LOCATIONS
 (MAY 2016)
 WEST VINCENT TOWNSHIP
 CHESTER COUNTY, PENNSYLVANIA

Date: 06/09/2016
 Revisions:

CEDARVILLE
 Engineering Group, LLC
 CEG Proj #: WVT-16-069
 DRAWN BY: BU
 0 750 1,500 3,000 Feet
 1 inch = 2,750 feet

- ROAD LABEL KEY**
- PA 113
 - PA 108
 - PA 101
 - PA 92
 - PA 86
 - PA 78
 - PA 72
 - PA 65
 - PA 58
 - PA 52
 - PA 45
 - PA 38
 - PA 32
 - PA 25
 - PA 18
 - PA 12
 - PA 6
 - PA 0

- LEGEND**
- ★ SELECT CULVERTS AND BRIDGES
 - TOWNSHIP PAVED ROADS
 - - - TOWNSHIP GRAVEL ROADS
 - STATE ROADS
 - ▭ PARCELS
 - ▭ MUNICIPAL BOUNDARIES
 - STREAMS
 - WATERBODIES



BARTLETT LANE – 15 INCH PIPE

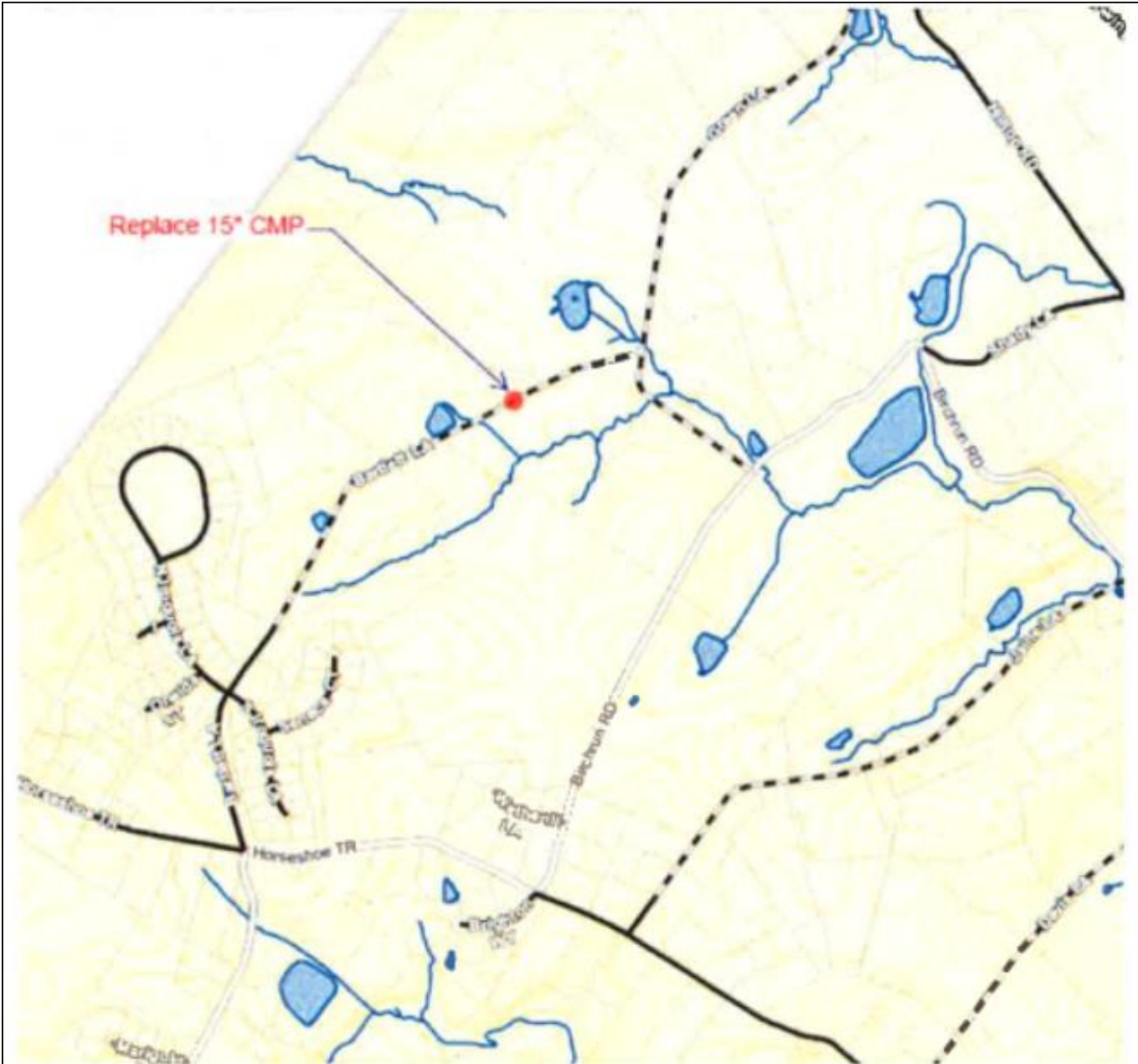
REPLACE EXISTING CMP WITH RCP, INSTALL INLET AND ENDWALL





BARTLETT LANE – 15 INCH PIPE

SITE LOCATION MAP





Attachment B
To Contract

SECTION 9106 OF THE PENNSYLVANIA VEHICLE CODE

DIRT, GRAVEL AND LOW VOLUME ROAD MAINTENANCE PROJECT WORK PLAN

West Vincent Township
Applicant

Bartlett Lane / T425
Road Name / ID Number

10/18/16
Date

Schematic Drawing
Not to Scale



Replace 15-inch CMP with
15" HDPE or RCP, install
inlet and endwall.

Instructions:

- Draw a sketch of the proposed project that includes:
 - All Proposed Work (i.e., Cross Pipes, Stream Crossings, Other ISM Practices)
 - Project Road Length in Feet or Miles
 - Nearest Intersection and/or Reference Landmarks
 - Known Utilities
 - North Arrow
- Attach a copy of a locational map with the project highlighted
- Attach additional project details as necessary



Call 8-1-1 or 1-800-640-6776 not less than 3 business days and more than 19 business days prior to the start of excavation.

Project Length = _____ feet / miles (circle one)

North Arrow



BARTLETT LANE – 15 INCH PIPE

PROJECT SKETCH





BARTLETT LANE – 15 INCH PIPE

REPLACE EXISTING CMP WITH RCP, INSTALL INLET AND ENDWALL



- Total Project Value \$4,068.60
- In-Kind Contribution \$2,085.60
- Project Reimbursement \$1,983.00



JAINE LANE - PIPE LINING

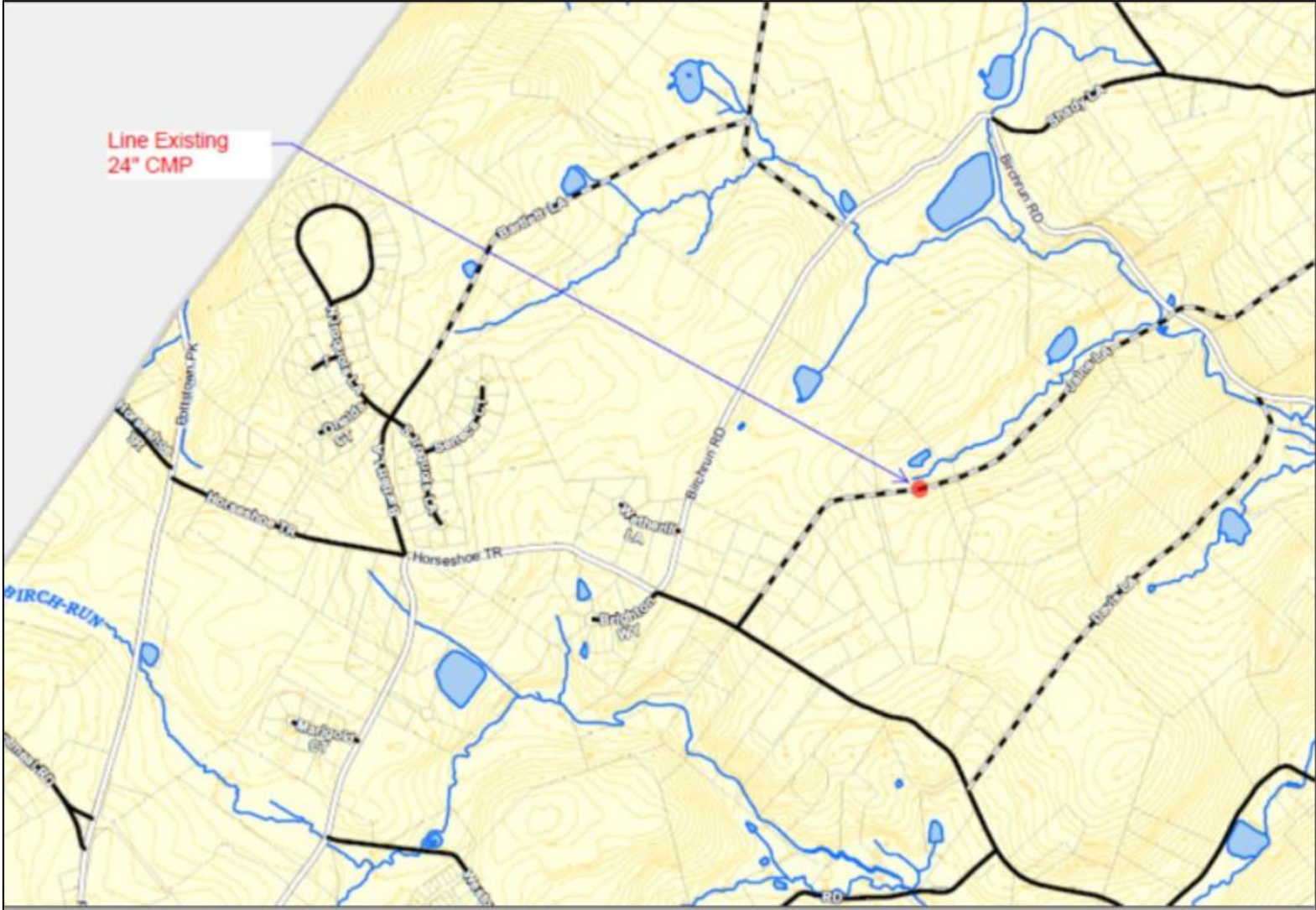
LINE EXISTING 24" CMP





JAINE LANE - PIPE LINING

SITE MAP





JAINE LANE - PIPE LINING

PROJECT SKETCH

Attachment B
To Contract

SECTION 9106 OF THE PENNSYLVANIA VEHICLE CODE
DIRT, GRAVEL AND LOW VOLUME ROAD MAINTENANCE
PROJECT WORK PLAN

West Vincent Township Jaine Lane / T434 _____
Applicant Road Name / ID Num Date

Schematic Drawing:
Not to Scale

±18 ft
Gravel
Road

Line existing 24" CMP

Instructions:

- Draw a sketch of the proposed project that includes:
 - All Proposed Work (i.e., Cross Pipes, Stream Crossings, Other ESM Practices)
 - Project Road Length in Feet or Miles
 - Nearest Intersection and/or Reference Landmarks
 - Known Utilities
 - North Arrow
- Attach a copy of a locational map with the project highlighted
- Attach additional project details as necessary

811 Dial 8-1-1 or 1-800-242-1778 not less than 3 business days nor more than 10 business days prior to the start of excavation.

Project Length = _____ feet / miles (circle one)

North Arrow
←



JAINE LANE - PIPE LINING

LINE EXISTING 24" CMP



• Total Project Value	\$13,880.00
• In-Kind Contribution	\$ 0
• Project Reimbursement	\$13,880.00



BARTLETT LANE

STORM SEWER, EXTENSION, & GABIONS

INSTALL APPROX 350 LF 15 INCH PIPE WITH INLETS ALONG WEST SIDE OF BARLETT LANE TO CONTROL DRAINAGE & EROSION ALONG EDGE OF GRAVEL LANE.

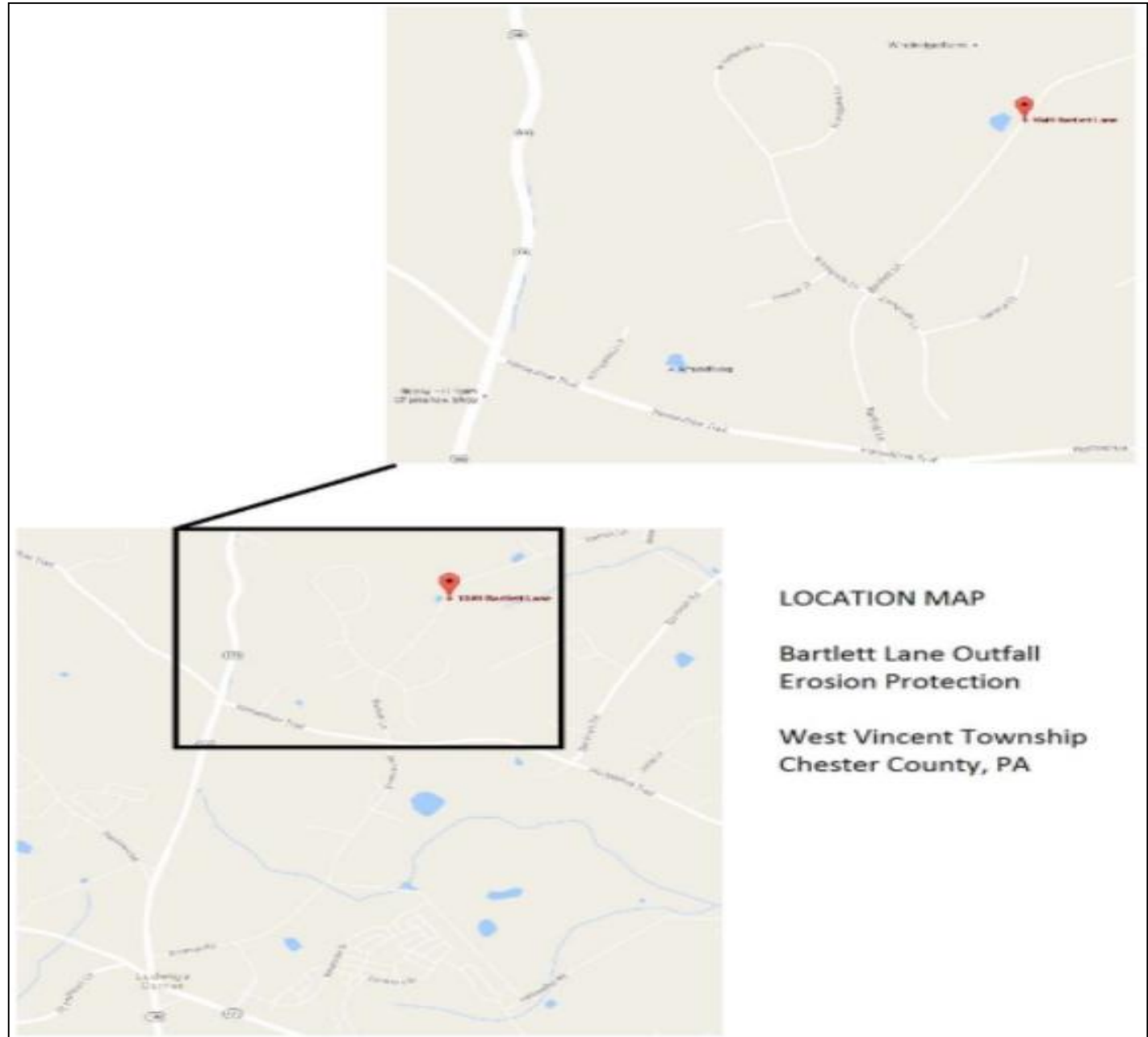




BARTLETT LANE

STORM SEWER, EXTENSION, & GABIONS

SITE MAP





BARTLETT LANE STORM SEWER, EXTENSION, & GABIONS

PROJECT SKETCH

Attachment B SECTION 9106 OF THE PENNSYLVANIA VEHICLE CODE
To Contract DIRT, GRAVEL AND LOW VOLUME ROAD MAINTENANCE
PROJECT WORK PLAN

WEST VINCENT TOWNSHIP Applicant BARTLETT LANE / T425 Road Name / ID Numbr 10/17/2016 Date

INSTALL GABION EROSION PROTECTION AT PIPE OUTFALL

DRIVEWAY

INSTALL APPROXIMATELY 350 LF 15-INCH PIPE WITH INLETS ALONG THE WEST SIDE OF BARTLETT LANE TO CONTROL DRAINAGE AND EROSION ALONG EDGE OF GRAVEL LANE.

GRAVEL

PAVED

Instructions:

- Draw a sketch of the proposed project that includes:
 - All Proposed Work (i.e., Cross Pipes, Stream Crossings, Other ESM Practices)
 - Project Road Length in Feet or Miles
 - Nearest Intersection and/or Reference Landmarks
 - Known Utilities
 - North Arrow
- Attach a copy of a locational map with the project highlighted
- Attach additional project details as necessary

811 Call 8-8-1 or 1-800-243-1178 not less than 3 business days nor more than 15 business days prior to the start of excavation.

Project Length = 350 feet / miles (circle one)

North Arrow



BARTLETT LANE

STORM SEWER, EXTENSION, & GABIONS





BARTLETT LANE

STORM SEWER, EXTENSION, & GABIONS





BARTLETT LANE

STORM SEWER, EXTENSION, & GABIONS





BARTLETT LANE

STORM SEWER, EXTENSION, & GABIONS





BARTLETT LANE

STORM SEWER, EXTENSION, & GABIONS

- Grant Requested \$5,830.00
- In-Kind Contribution \$9,916.00
- Total Project Value \$15,746.00





BARTLETT LANE

REPLACE 20" CLIP





BARTLETT LANE REPLACE 20" CLIP

SITE MAP





BARTLETT LANE REPLACE 20" CLIP

PROJECT SKETCH

Attachment B SECTION 9106 OF THE PENNSYLVANIA VEHICLE CODE:
To Contract DIRT, GRAVEL AND LOW VOLUME ROAD MAINTENANCE
PROJECT WORK PLAN

West Vincent Township Applicant Bartlett Lane / T425 Road Name / ID Number 10/18/2016 Date

Schematic Drawing:
Not to Scale

16 ft Gravel Road

Replace 20-inch CIP with 24x38 RCP, install endwalls

Instructions:

- Draw a sketch of the proposed project that includes:
 - All Proposed Work (i.e., Cross Pipes, Stream Crossings, Other ESM Practices)
 - Project Road Length in Foot or Miles
 - Nearest Intersection and/or Reference Landmarks
 - Known Utilities
 - North Arrow
- Attach a copy of a locational map with the project highlighted
- Attach additional project details as necessary

811 Call 8-1-1 or 1-800-240-1778 not less than 5 business days nor more than 10 business days prior to the start of excavation.

Project Length = _____ feet / miles (circle one)

North Arrow



BARTLETT LANE

REPLACE 20" CLIP

- Grant Requested \$5,303.92
- In-Kind Contribution \$2,476.00
- Total Project Value \$7,779.92





GREEN LANE EXTEND 36" RCP





GREEN LANE EXTEND 36" RCP

SITE MAP





GREEN LANE EXTEND 36" RCP PROJECT SKETCH

Attachment B
To Contract

SECTION 9106 OF THE PENNSYLVANIA VEHICLE CODE
DIRT, GRAVEL AND LOW VOLUME ROAD MAINTENANCE
PROJECT WORK PLAN

West Vincent Township Green Lane / T426 10/17/2016
Applicant Road Name / ID Num Date

TOTAL PERMANENT
STREAM IMPACT:
16 LF / 48 SQ FT

THERE ARE NO FEMA
MAPPED FLOODPLAINS
WITHIN THE PROJECT AREA.

SCHEMATIC
DRAWING:
NOT TO SCALE

14-FT WIDE
GRAVEL ROAD

16 LINEAR FEET

4 LF 4 LF 4 LF 4 LF

PROPOSED
HEADWALL

PROPOSED
ENDWALL

PROPOSED
CULVERT
EXTENSION

PROPOSED
CULVERT
EXTENSION

UNT TO BIRCH RUN (EV)

UNT TO BIRCH RUN (EV)

PLAN VIEW

32 LINEAR FEET

24 LF TOTAL PROPOSED
CULVERT LENGTH

UNT TO BIRCH RUN (EV)

UNT TO BIRCH RUN (EV)

TYPICAL CROSS SECTION

A QUALIFIED WETLAND
SCIENTIST FROM
CEDARVILLE ENGINEERING
GROUP, LLC INVESTIGATED
THE SITE ON 10/11/16 AND
DETERMINED THERE ARE NO
WETLANDS WITHIN THE
PROJECT AREA.

Instructions:

- Draw a sketch of the proposed project that includes:
 - All Proposed Work (i.e., Cross Pipes, Stream Crossings, Other ESM Practices)
 - Project Road Length in Feet or Miles
 - Nearest Intersection and/or Reference Landmarks
 - Known Utilities
 - North Arrow
- Attach a copy of a locational map with the project highlighted
- Attach additional project details as necessary

811
Dial 8-6-1 or 1-800-243-1778 not less than 3 business days nor more than 10 business days prior to the start of excavation.

Project Length = _____ feet / miles (circle one)

North Arrow



GREEN LANE EXTEND 36" RCP



- Grant Requested \$4,742.00
- In-Kind Contribution \$3,048.00
- Total Project Value \$7,790.00



ARRC

Where Sound Thinking Meets Innovation