

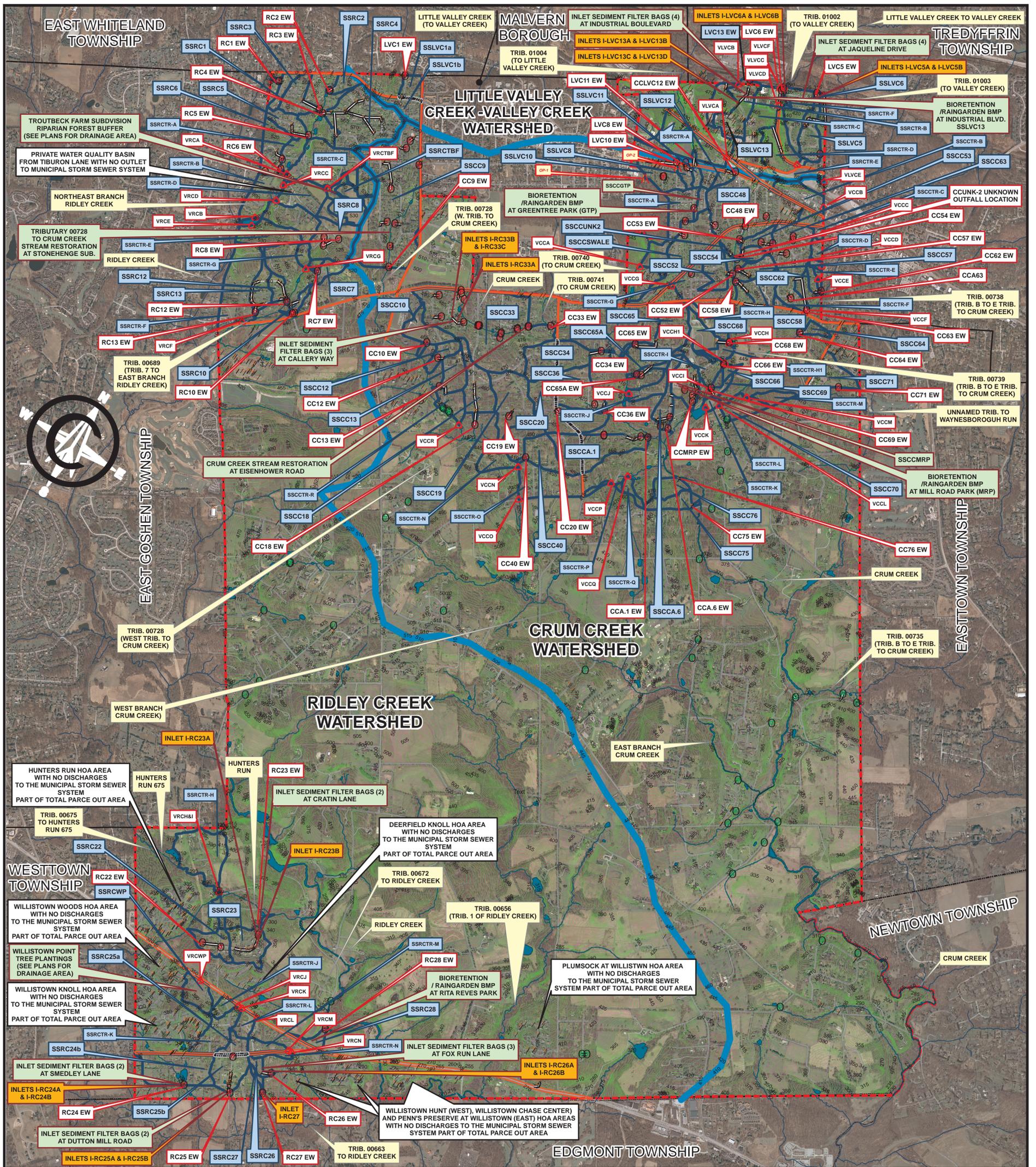
**PRP Report and Strategy Plan for Willistown Township
MS4 Individual Permit Application 2018**

Appendix C – Amended 01-28-22

**Outfall & Urbanized Area & Aerial Maps, and Supplemental Map to Outfall &
Urbanized Area Map – Sewersheds & Parsed Out Areas Mapping
MS4 Program - 2018**

**PRP Report and Strategy Plan for Willistown Township
MS4 Individual Permit Application 2018**

Outfall & Urbanized Area Map



WILLISTOWN TOWNSHIP, CHESTER COUNTY, PENNSYLVANIA

OUTFALL & AERIAL MAP 2018 - MS4 PROGRAM 2018

WILLISTOWN TOWNSHIP MS4 REQUIREMENTS (Revised 08/10/2017)

IMPAIRED DOWNSTREAM WATERS OR APPLICABLE TMDL NAME: REQUIREMENTS, AND OTHER CAUSES

1. RIDLEY CREEK (RC): Appendix E-Siltation (5); Cause Unknown (5), Water/Flow Variability (4c)
2. CRUM CREEK (CC): Appendix E-Siltation (5); Cause Unknown (5), Water/Flow Variability (4c)
3. LITTLE VALLEY CREEK (LVC): Appendix C-PCP (4a), Appendix B-Pathogens (5), Appendix E-Siltation (5); Cause Unknown (5), Other Habitat Alterations, Water/Flow Variability (4c)
4. SCHUYLKILL RIVER: (Outside Municipality): Appendix C-PCP (4a)
5. HUNTERS RUN: Appendix E-Siltation (5); Cause Unknown (5), Water/Flow Variability (4c)

* In High Quality Watershed
** In Exceptional Value Watershed



NOTE: The intent and purpose of this map is to present the required overall mapping for the MS4 PRP Plan. For detailed information about parced out areas, see "Supplemental Map to Outfall & Urbanized Area Map - Parced Out Areas Map", sheets 1 to 11.

Legend

- | | | | | | |
|--|---------------------|--|------------------------|--|-------------------------------|
| | MS4 OUTFALL | | STORM SEWER LINE | | WILLISTOWN MUNICIPAL BOUNDARY |
| | NON-MS4 OUTFALL | | ROADS CENTERLINE | | OTHER MUNICIPAL BOUNDARY |
| | MS4 VIRTUAL OUTFALL | | PARSED OUT PADOT ROADS | | PARCELS |
| | OBSERVATION POINTS | | STREAMS | | URBANIZED AREAS |
| | STORM INLETS | | WATERSHED BOUNDARY | | MS4 SEWER SHEDS (SS) |
| | STORM MANHOLES | | PONDS | | SS-SEWERSHED / NAME |

LEGEND NOTES:

1. Only Final Sewershed MS4 Outfalls are labeled within the Urbanized Area.
2. Storm Sewer Lines shown are limited to Willistown Township owned and mostly within the Urbanized Area.
3. See also Data Notes.

STREAM DESIGNATION NOTES:

1. PADEP MS4 REQUIREMENTS ONLINE MAP @ <http://www.dep.state.pa.us/MS4/index.html>
2. PADEP eMAPPA ONLINE MAP @ <http://www.dep.state.pa.us/emappa/>
3. ALL OTHER STREAMS OR TRIBUTARIES UNLABELED ARE DESIGNATED AS UNKNOWN TRIBUTARIES.

DATA NOTES:

1. This map prepared from GIS information provided from the County of Chester GIS Dept., Willistown Township, Pennsylvania Spatial Data Access (PASDA), and other sources.
2. Urbanized Area per 2010 U.S. Census GIS Data
3. This plan is copyrighted and any reproduction in whole or in part thereof without written permission is expressly prohibited.
4. Any locations of existing utilities shown on this map have been developed from existing plans and/or records. Completeness or accuracy of locations and sizes of underground utilities or structures cannot be guaranteed. Location and depth of all underground utilities and facilities must be verified before start of work per Pennsylvania Act 287 of 1974 as amended by Act 121 of 2008, 73 P.S. 176 et. seq.
5. Completeness or accuracy of locations and sizes of structures, roadway, property lines and any other features cannot be guaranteed and must be verified.
6. Storm outfall and structure locations as provided by Willistown Township and have not been field verified by this office.
7. This map is as up to date as possible at the time of printing.

WATER COURSE NAME
THE LOCATION OF PROPOSED BMP'S
THE LOCATION OF INLET FILTER BAGS

MAP PREPARED FOR
WILLISTOWN TOWNSHIP BY:
YERKES ASSOCIATES, INC.
a *cirilli* company
1444 PHOENIXVILLE PIKE
P.O. BOX 1568 * WEST CHESTER, PA 19380
(610) 644-4254

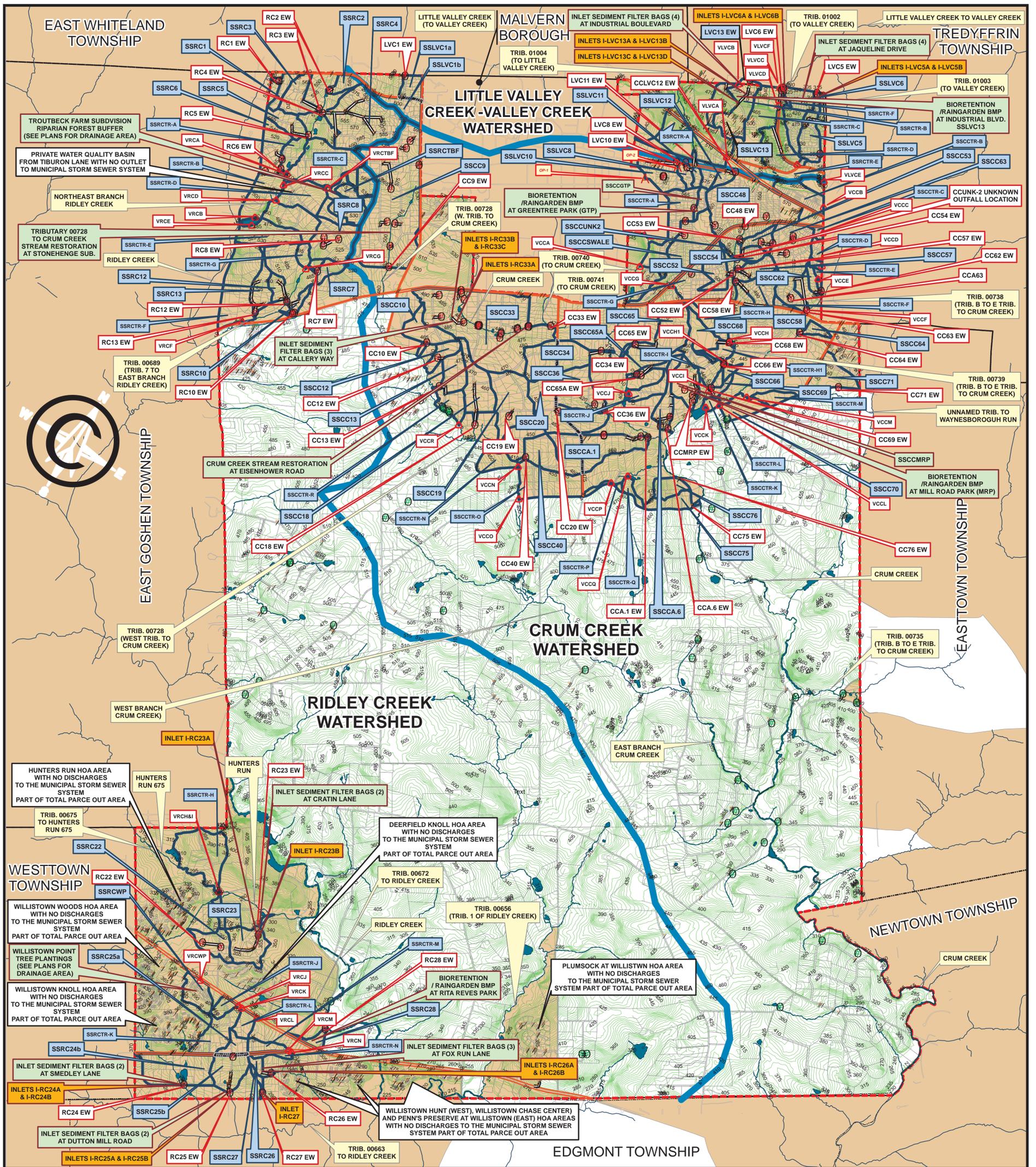
DATED: JUNE 3, 2018



REVISIONS NO.	DATE	DESCRIPTION
1	12-02-20	Mapping Update Per PADEP Review
2	03-11-21	Mapping Update Per PADEP Review
3	05-14-21	Mapping Update Per PADEP Review
4	12-13-21	Mapping Update Per PADEP Review
5	01-26-22	Mapping Update Per PADEP Review

**PRP Report and Strategy Plan for Willistown Township
MS4 Individual Permit Application 2018**

Outfall Aerial Map



WILLISTOWN TOWNSHIP, CHESTER COUNTY, PENNSYLVANIA

OUTFALL & URBANIZED AREA MAP - MS4 PROGRAM 2018

WILLISTOWN TOWNSHIP MS4 REQUIREMENTS (Revised 08/10/2017)

IMPAIRED DOWNSTREAM WATERS OR APPLICABLE TMDL NAME REQUIREMENTS, AND OTHER CAUSES

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* In High Quality Watershed
** In Exceptional Value Watershed



Legend

- | | | | | | |
|--|---------------------|--|------------------------|--|-------------------------------|
| | MS4 OUTFALL | | STORM SEWER LINE | | WILLISTOWN MUNICIPAL BOUNDARY |
| | NON-MS4 OUTFALL | | ROADS CENTERLINE | | OTHER MUNICIPAL BOUNDARY |
| | MS4 VIRTUAL OUTFALL | | PARSED OUT PADOT ROADS | | PARCELS |
| | OBSERVATION POINTS | | STREAMS | | URBANIZED AREAS |
| | STORM INLETS | | WATERSHED BOUNDARY | | MS4 SEWER SHEDS (SS) |
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7. This map is as up to date as possible at the time of printing.

WATER COURSE NAME
THE LOCATION OF PROPOSED BMP'S
THE LOCATION OF INLET FILTER BAGS

MAP PREPARED FOR
WILLISTOWN TOWNSHIP BY:
YERKES ASSOCIATES, INC.
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1444 PHOENIXVILLE PIKE
P.O. BOX 1568 * WEST CHESTER, PA 19380
(610) 644-4254

DATED: JUNE 3, 2018



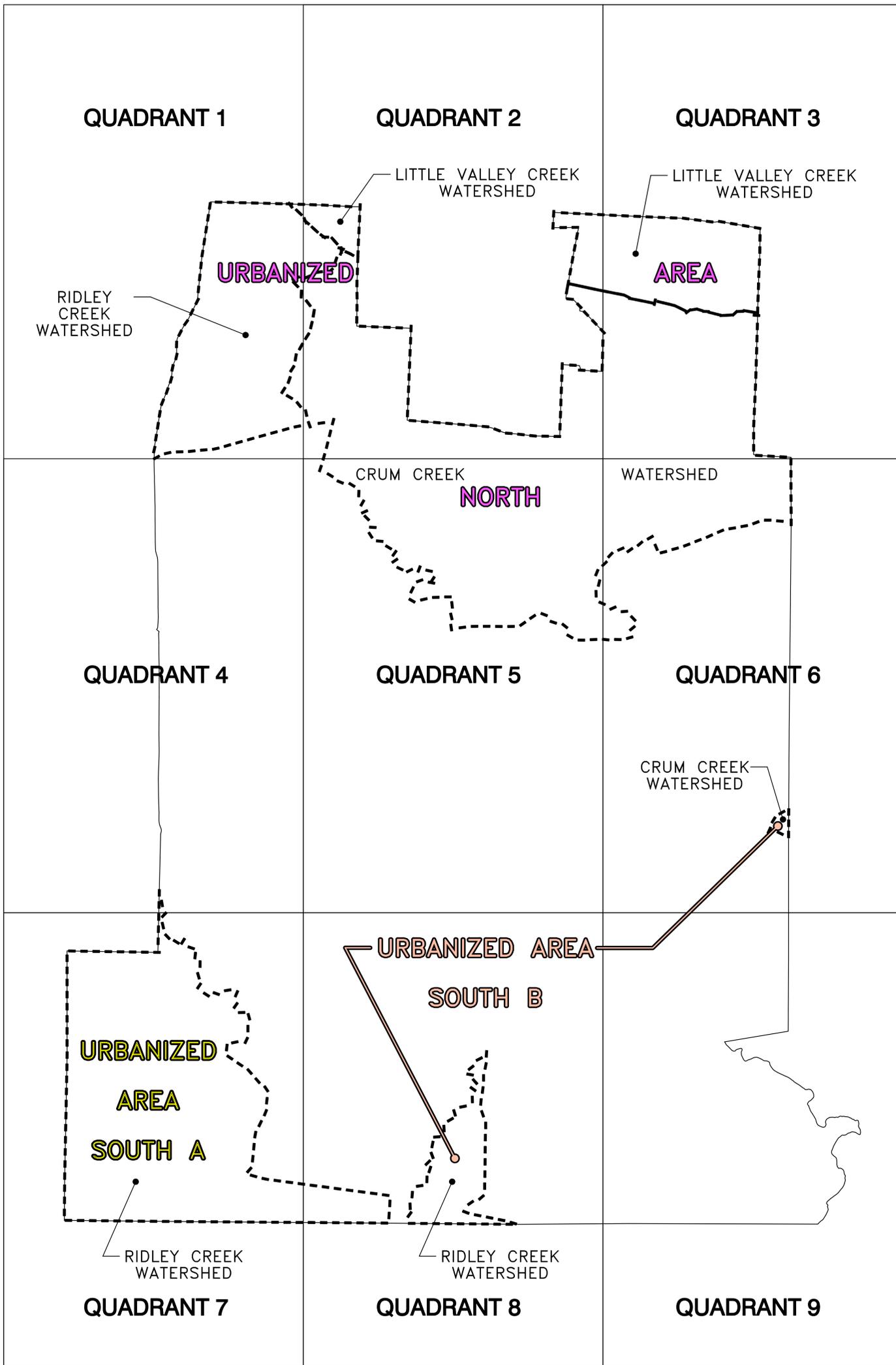
NOTE: The intent and purpose of this map is to present the required overall mapping for the MS4 PRP Plan. For detailed information about parced out areas, see "Supplemental Map to Outfall & Urbanized Area Map - Parsed Out Areas Map", sheets 1 to 11.

REVISIONS NO.	DATE	DESCRIPTION
1.	12-02-20	Mapping Update Per PADEP Review
2.	03-11-21	Mapping Update Per PADEP Review
3.	05-14-21	Mapping Update Per PADEP Review
4.	12-13-21	Mapping Update Per PADEP Review
5.	01-26-22	Mapping Update Per PADEP Review

**PRP Report and Strategy Plan for Willistown Township
MS4 Individual Permit Application 2018**

Supplemental Map to Outfall & Urbanized Area Map – Sewersheds & Parsed Out Areas
Mapping

Amended Sheets 1, 2, 3 & 9



LEGEND FOR MAP SET

	URBANIZED AREA NORTH REMAINING PARCED OUT PRIVATE AREA-SEE PARSING NOTES
	URBANIZED AREA SOUTH A REMAINING PARCED OUT PRIVATE AREA-SEE PARSING NOTES
	URBANIZED AREA SOUTH B REMAINING PARCED OUT PRIVATE AREA-SEE PARSING NOTES
	NON-URBANIZED AREA NOT IN THE URBANIZED PLANNING AREA
	PENNDOT ROADWAYS PORTIONS INCLUDED EITHER IN THE PRIVATE AREA OR PARCED OUT SEPARATELY AS NOTED
	WATERSHED BOUNDARY WITHIN THE URBANIZED PLANNING AREA
	MS4 OUTFALLS
	MUNICIPAL OUTFALLS
	VIRTUAL MS4 OUTFALLS (NO ACTUAL EXISTING OUTFALL)
	OBSERVATION POINTS
	STORM LINES & INLETS
	NOTE INDICATING LOCATION OF BMP

MAPPING GENERAL NOTES

1. THE INTENT AND PURPOSE OF THESE MAPS ARE TO ISOLATE THE PARCED OUT AREAS OF THE WILLISTOWN TOWNSHIP URBANIZED AREA MAP. THE MAP ALSO INDICATES THE TOTAL COMBINED AREAS OF GROUPED SEWERSHEDS. REFER TO THE WILLISTOWN TOWNSHIP OUTFALL & URBANIZED AREA MAP FOR ADDITIONAL DETAILS.
2. THE LABELED NON-URBANIZED AREA IS ANY AREA OUTSIDE THE URBANIZED / PLANNING AREA.
2. SEE ALSO SPREAD SHEET CALCULATIONS FOR EACH WATER SHED AREA AND PENNDOT ROADS.

MAPPING DATA NOTES:

1. THIS MAP PREPARED FROM GIS INFORMATION PROVIDED FROM THE COUNTY OF CHESTER GIS DEPT.: WILLISTOWN TOWNSHIP; PENNSYLVANIA SPATIAL DATA ACCESS (PASDA); AND OTHER SOURCES.
2. URBANIZED AREA PER 2010 U.S. CENSUS GIS DATA
3. THIS PLAN IS COPYRIGHTED AND ANY REPRODUCTION IN WHOLE OR IN PART THEREOF WITHOUT WRITTEN PERMISSION IS EXPRESSLY PROHIBITED.
4. ANY LOCATIONS OF EXISTING UTILITIES SHOWN ON THIS MAP HAVE BEEN DEVELOPED FROM EXISTING PLANS AND/OR RECORDS. COMPLETENESS OR ACCURACY OF LOCATIONS AND SIZES OF UNDERGROUND UTILITIES OR STRUCTURES CANNOT BE GUARANTEED. LOCATION AND DEPTH OF ALL UNDERGROUND UTILITIES AND FACILITIES MUST BE VERIFIED BEFORE START OF WORK PER PENNSYLVANIA ACT 287 OF 1974 AS AMENDED BY ACT 121 OF 2008, 73 P.S. 176 ET. SEQ..
5. COMPLETENESS OR ACCURACY OF LOCATIONS AND SIZES OF STRUCTURES, ROADWAY, PROPERTY LINES AND ANY OTHER FEATURES CANNOT BE GUARANTEED AND MUST BE VERIFIED.
6. STORM OUTFALL AND STRUCTURE LOCATIONS AS PROVIDED BY WILLISTOWN TOWNSHIP AND HAVE NOT BEEN FIELD VERIFIED BY THIS OFFICE.
7. THIS MAP IS AS UP TO DATE AS POSSIBLE AT THE TIME OF PRINTING.

NOTE: THE INTENT AND PURPOSE OF THIS MAPPING IS TO PRESENT THE PARCED OUT AREAS MAPPING FOR THE MS4 PPP PLAN. FOR OTHER DETAILED INFORMATION ABOUT THE MS4 MAPPING, SEE BOTH THE "OUTFALL & URBANIZED AREA MAP - MS4 PROGRAM 2018" & "OUTFALL & AERIAL MAP 2018 - MS4 PROGRAM 2018".



PROJECT:	W-17-0300-33
DATE:	MARCH 11, 2021
SCALE:	1"=1600'
DRAWN:	CEJ3
CAD FILE:	WILLISTOWN MS4 2018.PRO
REV. DATE:	JANUARY 28, 2012
REV. DATE:	DECEMBER 13, 2021
REV. DATE:	MAY 14, 2021
REV. DATE:	APRIL 23, 2021

URBANIZED AREA NORTH TOTAL SEWERSHED ACRES = 1,769.55 AC.

TOTAL SEWERSHED AREA: 59.66 ACRES
SEE QUADRANT 1
SEWERSHED ACRES
SSRC1 8.02
SSRC3 17.36
SSRC5 12.75
SSRC6 21.53

TOTAL SEWERSHED AREA: 4 ACRES
SEE QUADRANTS 1 & 2
SEWERSHED 483.91 ACRES
SSRC2 7.39
SSRC4 62.44
SSRC7 7.67
SSRC9 30.78
SSRC10 4.73
SSRC12 7.06
SSRC13 14.42
SSRCTR-A 10.74
SSRCTR-B 24.09
SSRCTR-C 42.93
SSRCTR-D 22.17
SSRCTR-E 22.95
SSRCTR-F 46.62
SSRCTR-G 5.19
SSRCTBF 17.05
SSCC9 135.66
SSLVC1a & SSLVC1b 22.05

TOTAL SEWERSHED AREA: 482.66 ACRES
SEE QUADRANTS 2 & 5
SEWERSHED ACRES
SSCC10 18.72
SSCC12 9.31
SSCC13 16.58
SSCC18 27.69
SSCC19 39.45
SSCC20 42.76 (WEST + EAST SIDES)
SSCC33 132.62
SSCC34 36.32 (WEST + EAST SIDES)
SSCC36 30.27
SSCC40 18.88
SSCCA.1 45.54 (WEST + EAST SIDES)
SSCCTR-N 10.94
SSCCTR-O 33.54
SSCCTR-P 2.83
SSCCTR-Q 4.72
SSCCTR-R 12.48

TOTAL SEWERSHED AREA: 224.16 ACRES
SEE QUADRANTS 2 & 3
SEWERSHED ACRES
SSLVC8 5.36
SSLVC10 19.36
SSLVC11 4.32
SSLVC12 4.55
SSCC48 66.20
SSCCGTP 4.91
SSSWALE 42.81
SSCC52 17.35
SSCCUNK-2 0.92
SSCCTR-A 33.34
SSCCTR-G 25.04

TOTAL SEWERSHED AREA: 158.60 ACRES
SEE QUADRANTS 2, 3, 5, & 6
SEWERSHED ACRES
SSCC65 30.65
SSCC66 4.72
SSCC68 14.80
SSCC69 3.56
SSCC65A 4.20
SSCCA.6 14.59
SSCCMRP 19.16
SSCCTR-H 11.27
SSCCTR-H1 6.19
SSCCTR-I 15.19
SSCCTR-J 9.45
SSCCTR-K 3.10
SSCCTR-L 14.22
SSCCTR-M 7.54

TOTAL SEWERSHED AREA: 4.64 ACRES
SEE QUADRANT 3 & 6
SEWERSHED ACRES
SSCC64 4.64

TOTAL SEWERSHED AREA: 22.38 ACRES
SEE QUADRANT 6
SEWERSHED ACRES
SSCC71 22.38

TOTAL SEWERSHED AREA: 203.04 ACRES
SEE QUADRANT 3
SEWERSHED ACRES
SSLVC5 25.48
SSLVC6 16.91
SSLVC13 25.03
SSLVCTR-A 35.69
SSLVCTR-B 13.25
SSLVCTR-C 37.75
SSLVCTR-D 16.87
SSLVCTR-E 14.03
SSLVCTR-F 0.98
SSLVCTR-G 0.98
SSCCTR-B 16.07

TOTAL SEWERSHED AREA: 101.91 ACRES
SEE QUADRANT 3
SEWERSHED ACRES
SSCC93 9.21
SSCC94 6.25
SSCC97 10.42
SSCC98 15.88
SSCC62 4.34
SSCC63 48.37
SSCCTR-C 2.28
SSCCTR-D 2.04
SSCCTR-E 0.75
SSCCTR-F 2.37

TOTAL SEWERSHED AREA: 22.59 ACRES
SEE QUADRANTS 5 & 6
SEWERSHED ACRES
SSCC75 11.90
SSCC76 10.69

URBANIZED AREA SOUTH A TOTAL SEWERSHED ACRES = 205.54 AC.

TOTAL SEWERSHED AREA: 97.44 ACRES
SEE QUADRANT 7
SEWERSHED ACRES
SSRC22 15.51
SSRC23 24.39
SSRCTR-H 40.34
SSRCTR-I 4.04
SSRCWP 13.16

TOTAL SEWERSHED AREA: 121.29 ACRES
SEWERSHED ACRES
SSRC24b 40.35
SSRC25a & SSRC25b 28.15
SSRC26 4.48
SSRC27 2.39
SSRCTR-J 5.99
SSRCTR-K 21.79
SSRCTR-L 8.12
SSRCTR-M 7.01
SSRCTR-N 2.99

TOTAL SEWERSHED AREA: 4.14 ACRES
SEWERSHED ACRES
SSRC28 4.14

URBANIZED AREA SOUTH B TOTAL SEWERSHED ACRES = 0.00 AC.

TOTAL SEWERSHED AREA: 0.00 ACRES
SEWERSHED ACRES
NONE 0.00

OVERALL URBANIZED AREA TOTAL SEWERSHED ACRES

URBANIZED AREA NORTH TOTAL SEWERSHED ACRES = 1,746.49 AC.
URBANIZED AREA SOUTH A TOTAL SEWERSHED ACRES = 205.54 AC.
URBANIZED AREA SOUTH B TOTAL SEWERSHED ACRES = 0.00 AC.
TOTAL OVERALL SEWERSHED AREAS = 1,952.03 AC.

PARSED OUT SEWER SHED AREAS FROM URBANIZED AREA NORTH

SEWERSHED ACRES NOTE
SSLVC13 1.42 Outside Municipal Boundary to Tredyffrin Township to Little Valley Creek Stream
SSCCA.1 0.83 PADOT Parce Out Warren Ave.
SSCC20 1.48 PADOT Parce Out Warren Ave.
SSCC34 0.74 PADOT Parce Out Warren Ave.

Sub Total = 4.46

EVALUATION OF URBANIZED AREA NORTH

EVALUATED ACRES
1. PADEP Urbanized Area North = 2,868.48
2. Total Sewershed Area = 1,763.57
3. Parced Out Private Area (1-2) = 1,104.91
4. Additional Sewershed Parced Out Area = 4.46

5. Final North Total All Parced Out Areas (3+4) = 1,109.37

PARSED OUT SEWER SHED AREAS URBANIZED AREA SOUTH A

SEWERSHED ACRES NOTE
NONE 0.00 NO MS4 SEWERSHEDS PARCED OUT AREAS

Sub Total = 0.00

EVALUATION OF URBANIZED AREA SOUTH A

EVALUATED ACRES
1. PADEP Urbanized Area South A = 1,015.72
2. Total Sewershed Area = 222.84
3. Parced Out Private Area (1-2) = 792.88
4. Additional Sewershed Parced Out Area = 0.00

5. Final North Total All Parced Out Areas (3+4) = 792.88

PARSED OUT SEWER SHED AREAS URBANIZED AREA SOUTH B

SEWERSHED ACRES NOTE
NONE 0.00 NO MS4 SEWERSHEDS PARCED OUT AREAS

Sub Total = 0.00

EVALUATION OF URBANIZED AREA SOUTH B

EVALUATED ACRES
1. PADEP Urbanized Area South B = 139.30
2. Total Sewershed Area = 0.00
3. Parced Out Private Area (1-2) = 139.30
4. Additional Sewershed Parced Out Area (3-4) = 0.00

5. Final North Total All Parced Out Areas (3+4) = 139.30

TOTAL URBANIZED AREA ACRES

URBANIZED AREA NORTH = 2,868.48
URBANIZED AREA SOUTH A = 1,015.72
URBANIZED AREA SOUTH B = 139.30

TOTAL URBANIZED AREA = 4,023.50

TOTAL TOTAL PARSED OUT AREA WITHIN THE URBANIZED AREA

TOTAL URBANIZED AREA ACRES

URBANIZED AREA NORTH = 1,109.37
URBANIZED AREA SOUTH A = 792.88
URBANIZED AREA SOUTH B = 139.30

TOTAL URBANIZED AREA WITHIN THE URBANIZED AREA = 2,041.55

OTHER SPECIFIC SUB-TOTAL PARSED OUT AREAS WITHIN THE URBANIZED AREA

TOTAL ITEM ACRES

TOTAL PARSED OUT AREAS FROM SEWERSHEDS = 4.46

TOTAL PARSED OUT AREAS FROM PADOT ROADS = 89.28
TOTAL PARCED OUT PADOT ROAD PORTIONS FROM SEWER SHEDS = 3.05

NET REMAINING PADOT PARCED OUT AREAS = 86.23

TOTAL PARSED OUT FROM PRIVATE NON-MS4 AREAS = 2,037.09

MAPPING PARSING NOTES

- 1. THE MAPPING HAS DIVIDED THE URBANIZED / PLANNING AREA INTO THREE SEPARATE AREAS AS SHOWN ON THE QUADRANT INDEX MAP, SHEET 1 OF 11. EACH LOCATION IS LABELED AND COLORED CODED. THE URBANIZED AREAS IS SHOWN DIVIDED AS NORTH (PURPLE), SOUTH A (YELLOW), AND SOUTH B (SALMON).
2. THE PARSED-OUT AREAS ARE COLOR CODED AS WELL, FROM THE SEWER SHED AREAS (LIGHT BLUE), PENNDOT ROADS (BROWN), AND REMAINING AREAS ARE ALSO COLOR CODED TO THE SPECIFICALLY DIVIDED URBANIZED AREA AS NOTED ABOVE (PURPLE, YELLOW AND SALMON). THIS IS BASICALLY NOTED AS THE "PRIVATE AREA". ALL HOA OR OTHERWISE NON-MS4 SEWERS ARE ALREADY INCLUSIVE OF ALL PRIVATE AREAS. THEREFORE, NO ADDITIONAL PARSE OUT DEDUCTIONS HAVE BEEN PERFORMED. REFER TO OUTFALL & URBANIZED AREA MAP FOR HOA AREAS. LIKEWISE, IF ANY OTHER AREA IS NOT IN ANY MS4 SEWER SHED, THE PARTICULAR AREA HAD BEEN CONSIDERED AS PART OF PARSED-OUT AREA AS SHOWN SHADED.
3. ALL AREA OUTSIDE THE URBANIZED /PLANNING AREA IS SHADED GRAY AND LABELED "NON-URBANIZED AREA".
4. PENNDOT ROADS, ALTHOUGH INDICATED, HAVE ALREADY BEEN INCLUDED IN THE OVERALL "PRIVATE AREA" PARSED OUT, AND THEREFORE NO FURTHER DEDUCTIONS WERE TAKEN AS NOTED ON THE MAPPING WITH SOME EXCEPTION, AND IN THE DETAILED EXPLANATION AS FOLLOWS:
A. IN URBANIZED AREA NORTH (QUADRANT 2 / SHEET 4) - LITTLES VALLEY CREEK WATERSHED THE SEWER SHED AREAS KNOWN AS SSLVC14 AND SSLVC19 ARE SEPARATE SUB-SEWER SHEDS OF THE SAME SEWER SHED AREA WITH THE PORTION OF THE KING ROAD ALREADY DEDUCTED, THEREFORE NO FURTHER DEDUCTION TAKEN.
B. IN URBANIZED AREA NORTH (QUADRANT 5 / SHEET 7) - CRUM CREEK WATERSHED, THE SEWER SHEDS AREAS KNOWN SSCC34, SSCC20, AND SSCCA.1 HAS PORTIONS OF WARREN AVENUE ROADWAY DEDUCTED SEPARATELY. THE NET AREA OF WARREN AVENUE IS ALREADY INCLUDED IN THE PRIVATE AREA AND NO FURTHER DEDUCTION HAS BEEN TAKEN.
C. IN URBANIZED AREA SOUTH A (QUADRANT 7 / SHEET 9) - RIDLEY CREEK WATERSHED, THE SEWER SHED AREAS KNOWN AS SSRC125A AND SSRC25B ARE SEPARATE SUB-SEWER SHEDS OF THE SAME SEWER SHED AREA WITH THE PORTION OF THE KING ROAD ALREADY DEDUCTED, THEREFORE NO FURTHER DEDUCTION TAKEN.
5. THE CLEAR AREA ON THE MAPPING, AND IDENTIFIED BY BLACK TEXT, ALL REPRESENTS SUM TOTAL OF THAT PARTICULAR GROUPING OF SEWER SHEDS AS TABULATED. THE INDIVIDUAL SEWER SHEDS ARE OUTLINED IN BLACK. REFER TO THE OUTFALL & URBANIZED AREA MAP TO IDENTIFY ANY INDIVIDUAL SEWER SHED AREA.
6. PARSING OUT OF AREAS ARE AS FOLLOWS:
A. PORTIONS THAT FALL OUTSIDE THE MUNICIPAL BOUNDARY: THE SEWER SHED SSLVC13 - URBANIZED AREA A (QUADRANT 3 / SHEET 5) - LITTLE VALLEY WATERSHED HAS MS4 STORM SEWER THAT DISCHARGES TO A PORTION OF SEWER SHED THAT IS IN TREDYFFRIN TOWNSHIP WHICH IS TO A NON-MS4 APPROVED BMP BASIN AND OUTFALL. THIS AREA IS ON THE DOWNSTREAM OF THE SSLVC13 SEWER SHED IS WITHIN TREDYFFRIN TOWNSHIP AND HAS BEEN DEDUCTED FROM THE SEWER SHEDS AREA.
B. PENNDOT ROADWAYS: HAVE BEEN PARSED OUT AS MORE FULLY DESCRIBED IN THE PREVIOUS RESPONSE (NOTE 4) ABOVE.
7. SEE ALSO SPREADSHEET CALCULATIONS FOR EACH WATER SHED AREA AND PENNDOT ROADS.
8. REFER TO THE WILLISTOWN TOWNSHIP OUTFALL & URBANIZED AREA MAP FOR ADDITIONAL DETAILS.

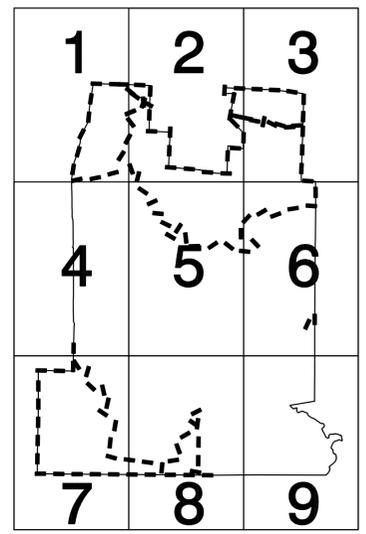


CONSULTING ENGINEERS / STRUCTURAL ENGINEERING
SITE PLANNERS / LAND SURVEYORS / MUNICIPAL SERVICES

1444 PHOENIXVILLE PIKE • P.O. BOX 1568 • WEST CHESTER, PA 19380
TEL: (610) 644-4254 • FAX: (610) 640-0771

**WILLISTOWN TOWNSHIP, CHESTER COUNTY, PA
SUPPLEMENTAL MAP TO OUTFALL & URBANIZED AREA MAP
SEWERSHEDS & PARCED OUT AREAS MAP
PARCE OUT TABULATIONS & NOTES**

PROJECT: W-17-0300-33
DATE: MARCH 11, 2021
SCALE: N/A
DRAWN: CEJ3
CAD FILE: WILLISTOWN MS4 2018.PRO
REV. DATE: JANUARY 28, 2012
REV. DATE: DECEMBER 13, 2021
REV. DATE: MAY 14, 2021
REV. DATE: APRIL 23, 2021
SHEET 2 OF 11



QUADRANT MAP INDEX

**KING ROAD PADOT PARSED OUT RIDLEY CREEK WATERSHED
(CONTINUED ON QUADRANT 2)
NOTE: INCLUDED IN THE PRIVATE AREA
& EXCLUDED FROM SEWERSHED AREAS
NO ADDITIONAL DEDUCTION NECESSARY
AREA: 1.52 ACRES**

TOTAL SEWERSHED AREA:	59.66 ACRES
SEWERSHED	ACRES
SSRC1	8.02
SSRC3	17.36
SSRC5	12.75
SSRC6	21.53

**INLET SEDIMENT FILTER BAGS (6)
AT WOODMONT DRIVE INLETS I-RC5A & I-RC5B**

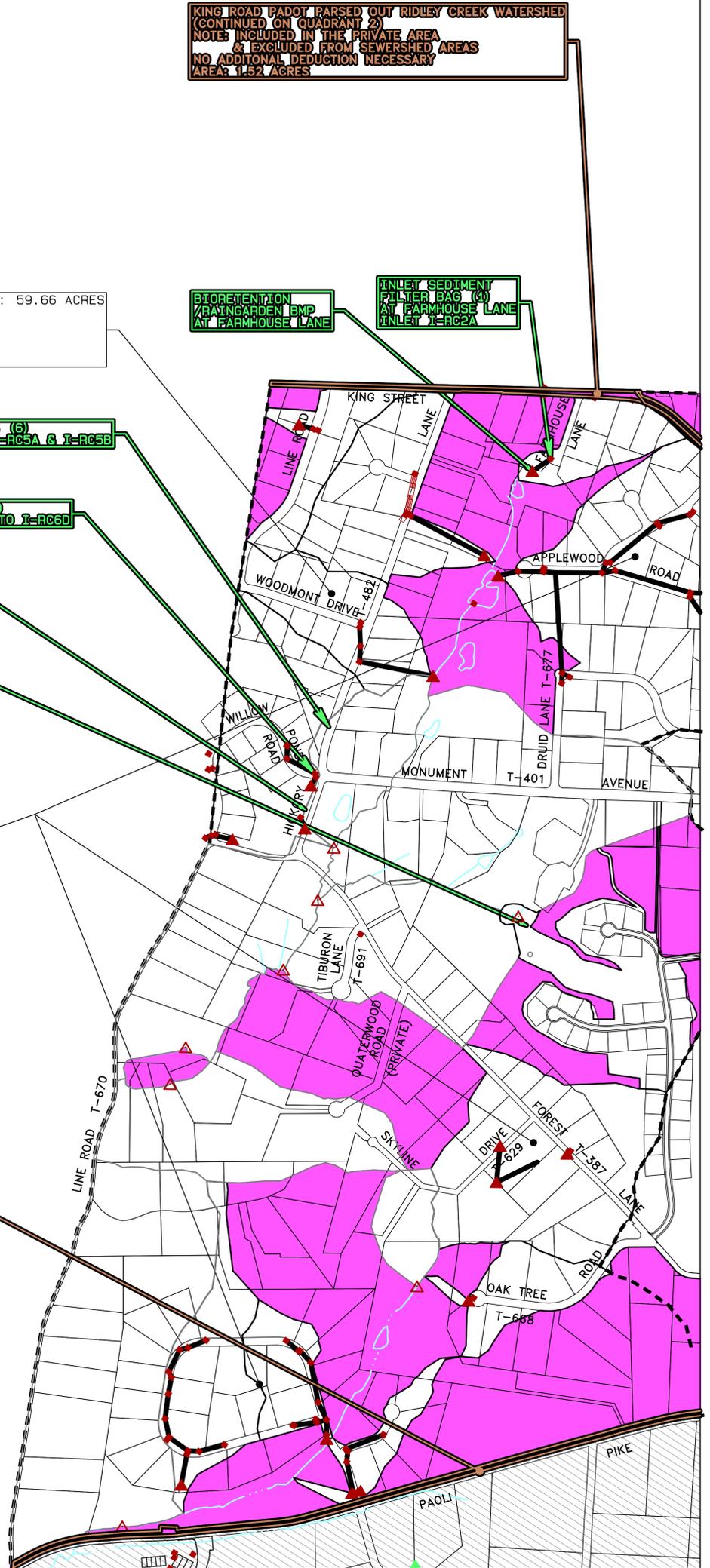
**INLET SEDIMENT FILTER BAGS (4)
AT WILLOW POND INLETS I-RC6A TO I-RC6D**

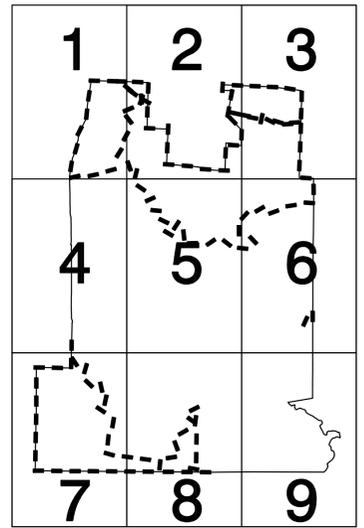
**BIORETENTION
/RAINGARDEN BMP
AT HICKORY LANE**

**TROUTBECK FARM SUBDIVISION
RIPARIAN FOREST BUFFER
(SEE ALSO PLANS FOR DRAINAGE AREA)**

TOTAL SEWERSHED AREA:	483.91 ACRES
(CONTINUED ON QUADRANT 2)	
SEWERSHED	ACRES
SSRC2	7.39
SSRC4	62.44
SSRC7	7.67
SSRC8	30.76
SSRC10	4.73
SSRC12	7.06
SSRC13	14.42
SSRCTR-A	10.74
SSRCTR-B	24.09
SSRCTR-C	42.93
SSRCTR-D	22.17
SSRCTR-E	22.95
SSRCTR-F	46.62
SSRCTR-G	5.19
SSRCTBF	17.05
SSCC9	135.66
SSLVC1a & SSLVC1b	22.05

**PAOLI PIKE PADOT PARSED OUT LITTLE VALLEY CREEK WATERSHED
NOTE: INCLUDED IN THE PRIVATE AREA
& EXCLUDED FROM SEWERSHED AREAS
NO ADDITIONAL DEDUCTION NECESSARY
AREA: 3.22 ACRES RIDLEY CREEK WATERSHED**





QUADRANT MAP INDEX

KING ROAD PADOT PARSED OUT LITTLE VALEY CREEK WATERSHED (CONTINUED ON QUADRANT 2)
 NOTES INCLUDED IN THE PRIVATE AREA & EXCLUDED FROM SEWERSHED AREAS
 NO ADDITIONAL DEDUCTION NECESSARY
 AREA: 1.66 ACRES

SSLVC1A & SSLVC 1B PORTION OF KING ROAD PADOT PARSED OUT
 NOTES INCLUDED IN THE PRIVATE AREA & EXCLUDED FROM SEWERSHED AREAS
 NO ADDITIONAL DEDUCTION TAKEN
 AREA: 0.51 ACRES

TOTAL SEWERSHED AREA: 466.86 ACRES (CONTINUED ON QUADRANT 1)	
SEWERSHED	ACRES
SSRC2	7.39
SSRC4	62.44
SSRC7	7.67
SSRC8	30.76
SSRC10	4.73
SSRC12	7.06
SSRC13	14.42
SSRC13-A	10.74
SSRC13-B	24.09
SSRC13-C	42.93
SSRC13-D	22.17
SSRC13-E	22.95
SSRC13-F	46.62
SSRC13-G	5.19
SSCC9	135.66
SSLVC1a & SSLVC1b	22.05

TOTAL SEWERSHED AREA: 203.04 ACRES (CONTINUED ON QUADRANT 3)	
SEWERSHED	ACRES
SSLVC5	25.48
SSLVC6	16.91
SSLVC13	25.03
SSLVCTR-A	35.69
SSLVCTR-B	13.25
SSLVCTR-C	37.75
SSLVCTR-D	16.87
SSLVCTR-E	14.03
SSLVCTR-F	0.98
SSLVCTR-G	0.98
SSCCTR-B	16.07

SUGARTOWN ROAD PADOT PARSED OUT LITTLE VALEY CREEK WATERSHED
 NOTES INCLUDED IN THE PRIVATE AREA & EXCLUDED FROM SEWERSHED AREAS
 NO ADDITIONAL DEDUCTION NECESSARY
 AREA: 0.57 ACRES

SUGARTOWN ROAD PADOT PARSED OUT CRUM CREEK WATERSHED
 NOTES INCLUDED IN THE PRIVATE AREA & EXCLUDED FROM SEWERSHED AREAS
 NO ADDITIONAL DEDUCTION NECESSARY
 AREA: 4.06 ACRES

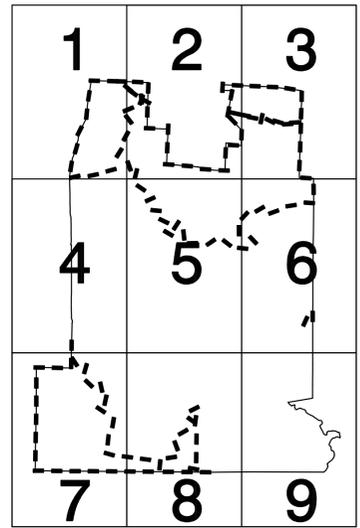
TRIBUTARY 00728 TO CRUM CREEK
 STREAM RESTORATION AT STONEHENGE SUB.

PAOLI PIKE PADOT PARSED OUT CRUM CREEK WATERSHED (CONTINUED ON QUADRANTS 1 & 3)
 NOTES INCLUDED IN THE PRIVATE AREA & EXCLUDED FROM SEWERSHED AREAS
 NO ADDITIONAL DEDUCTION NECESSARY
 AREA: 5.57 ACRES

TOTAL SEWERSHED AREA: 224.16 ACRES (SEE QUADRANTS 2 & 3)	
SEWERSHED	ACRES
SSLVC8	5.36
SSLVC10	19.36
SSLVC11	4.45
SSLVC12	6.45
SSCC48	66.20
SSCC67P	4.94
SSCC67E	4.94
SSCC67S	4.94
SSCC67W	4.94
SSCC67N	4.94
SSCC67SE	4.94
SSCC67SW	4.94
SSCC67NE	4.94
SSCC67NW	4.94
SSCC67S1	4.94
SSCC67S2	4.94
SSCC67N1	4.94
SSCC67N2	4.94
SSCC67SE1	4.94
SSCC67SE2	4.94
SSCC67SW1	4.94
SSCC67SW2	4.94
SSCC67NE1	4.94
SSCC67NE2	4.94
SSCC67NW1	4.94
SSCC67NW2	4.94
SSCC67S1E	4.94
SSCC67S1W	4.94
SSCC67N1E	4.94
SSCC67N1W	4.94
SSCC67SE1E	4.94
SSCC67SE1W	4.94
SSCC67SW1E	4.94
SSCC67SW1W	4.94
SSCC67NE1E	4.94
SSCC67NE1W	4.94
SSCC67NW1E	4.94
SSCC67NW1W	4.94
SSCC67S1E1	4.94
SSCC67S1E2	4.94
SSCC67S1W1	4.94
SSCC67S1W2	4.94
SSCC67N1E1	4.94
SSCC67N1E2	4.94
SSCC67N1W1	4.94
SSCC67N1W2	4.94
SSCC67SE1E1	4.94
SSCC67SE1E2	4.94
SSCC67SE1W1	4.94
SSCC67SE1W2	4.94
SSCC67SW1E1	4.94
SSCC67SW1E2	4.94
SSCC67SW1W1	4.94
SSCC67SW1W2	4.94
SSCC67NE1E1	4.94
SSCC67NE1E2	4.94
SSCC67NE1W1	4.94
SSCC67NE1W2	4.94
SSCC67NW1E1	4.94
SSCC67NW1E2	4.94
SSCC67NW1W1	4.94
SSCC67NW1W2	4.94
SSCC67S1E1E	4.94
SSCC67S1E1W	4.94
SSCC67S1E2E	4.94
SSCC67S1E2W	4.94
SSCC67S1W1E	4.94
SSCC67S1W1W	4.94
SSCC67S1W2E	4.94
SSCC67S1W2W	4.94
SSCC67N1E1E	4.94
SSCC67N1E1W	4.94
SSCC67N1E2E	4.94
SSCC67N1E2W	4.94
SSCC67N1W1E	4.94
SSCC67N1W1W	4.94
SSCC67N1W2E	4.94
SSCC67N1W2W	4.94
SSCC67SE1E1E	4.94
SSCC67SE1E1W	4.94
SSCC67SE1E2E	4.94
SSCC67SE1E2W	4.94
SSCC67SE1W1E	4.94
SSCC67SE1W1W	4.94
SSCC67SE1W2E	4.94
SSCC67SE1W2W	4.94
SSCC67SW1E1E	4.94
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SSCC67SW1W2E	4.94
SSCC67SW1W2W	4.94
SSCC67NE1E1E	4.94
SSCC67NE1E1W	4.94
SSCC67NE1E2E	4.94
SSCC67NE1E2W	4.94
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SSCC67NE1W1W	4.94
SSCC67NE1W2E	4.94
SSCC67NE1W2W	4.94
SSCC67NW1E1E	4.94
SSCC67NW1E1W	4.94
SSCC67NW1E2E	4.94
SSCC67NW1E2W	4.94
SSCC67NW1W1E	4.94
SSCC67NW1W1W	4.94
SSCC67NW1W2E	4.94
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SSCC67S1W1E1	4.94
SSCC67S1W1E2	4.94
SSCC67S1W1W1	4.94
SSCC67S1W1W2	4.94
SSCC67S1W2E1	4.94
SSCC67S1W2E2	4.94
SSCC67S1W2W1	4.94
SSCC67S1W2W2	4.94
SSCC67N1E1E1	4.94
SSCC67N1E1E2	4.94
SSCC67N1E1W1	4.94
SSCC67N1E1W2	4.94
SSCC67N1E2E1	4.94
SSCC67N1E2E2	4.94
SSCC67N1E2W1	4.94
SSCC67N1E2W2	4.94
SSCC67N1W1E1	4.94
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SSCC67N1W2E2	4.94
SSCC67N1W2W1	4.94
SSCC67N1W2W2	4.94
SSCC67SE1E1E1	4.94
SSCC67SE1E1E2	4.94
SSCC67SE1E1W1	4.94
SSCC67SE1E1W2	4.94
SSCC67SE1E2E1	4.94
SSCC67SE1E2E2	4.94
SSCC67SE1E2W1	4.94
SSCC67SE1E2W2	4.94
SSCC67SE1W1E1	4.94
SSCC67SE1W1E2	4.94
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SSCC67SW1E1W2	4.94
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SSCC67SW1W1E2	4.94
SSCC67SW1W1W1	4.94
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SSCC67SW1W2E1	4.94
SSCC67SW1W2E2	4.94
SSCC67SW1W2W1	4.94
SSCC67SW1W2W2	4.94
SSCC67NE1E1E1	4.94
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SSCC67S1E1E1W	4.94
SSCC67S1E1E2E	4.94
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SSCC67S1W2W2W1	4.94
SSCC67S1W2W2W2	4.94

TOTAL SEWERSHED AREA: 482.66 ACRES (CONTINUED ON QUADRANT 5)	
SEWERSHED	ACRES
SSCC10	18.72
SSCC12	6.31
SSCC13	16.58
SSCC18	27.68
SSCC19	39.45
SSCC20	49.76
SSCC33	139.65 (WEST + EAST SIDES)
SSCC34	30.37 (WEST + EAST SIDES)
SSCC36	18.88
SSCC40	18.88
SSCCA_1	48.54 (WEST + EAST SIDES)
SSCCTR-N	10.94
SSCCTR-O	39.54
SSCCTR-P	2.83
SSCCTR-Q	4.72
SSCCTR-R	12.48

TOTAL SEWERSHED AREA: 158.60 ACRES (CONTINUED ON QUADRANTS 3, 5 & 6)	
SEWERSHED	ACRES
SSCC65	30.65
SSCC66	4.72
SSCC68	14.80
SSCC69	3.56
SSCC65A	4.16
SSCCA_6	14.59
SSCCMRP	19.16
SSCCTR-H	11.27
SSCCTR-H1	6.19
SSCCTR-I	15.19
SSCCTR-J	



QUADRANT MAP INDEX

TOTAL SEWERSHED AREA:	203.04 ACRES
(CONTINUED ON QUADRANT 2)	
SEWERSHED	ACRES
SSLVC5	25.48
SSLVC6	16.91
SSLVC13	25.03
SSLVCTR-A	35.69
SSLVCTR-B	13.25
SSLVCTR-C	37.75
SSLVCTR-D	16.87
SSLVCTR-E	14.03
SSLVCTR-F	0.98
SSLVCTR-G	0.98
SSCCTR-B	16.07

**INLET SEDIMENT FILTER BAGS (4)
AT INDUSTRIAL BOULEVARD
INLETS I-LVC13A, I-LVC13B, I-LVC13C
& I-LVC13D**

**BIORETENTION /RAINGARDEN BMP
AT INDUSTRIAL BLVD, SSLVC13**

**INLET SEDIMENT FILTER BAGS (4)
AT JACQUELINE DRIVE
INLETS I-LVC6A, I-LVC6B, I-LVC5A
& I-LVC5B**

**RT 30, KING ST, CENTRAL AVE & CEDAR HOLLOW
PADOT PARSED OUT LITTLE VALEY CREEK WATERSHED
NOTE: INCLUDED IN THE PRIVATE AREA
& EXCLUDED FROM SEWERSHED AREAS
NO ADDITIONAL DEDUCTION NECESSARY
AREA: 13.50 ACRES**

**RT 30, KING ST, LANCASTER AVENUE PADOT PARSED OUT
CRUM CREEK WATERSHED
NOTE: INCLUDED IN THE PRIVATE AREA
& EXCLUDED FROM SEWERSHED AREAS
NO ADDITIONAL DEDUCTION NECESSARY
AREA: 13.50 ACRES**

TOTAL SEWERSHED AREA:	224.16 ACRES
(CONTINUED ON QUADRANT 2)	
SEWERSHED	ACRES
SSLVC8	5.36
SSLVC10	19.36
SSLVC11	4.32
SSLVC12	4.55
SSCC48	66.20
SSCC6P	4.91
SSSWALE	42.81
SSCC52	17.35
SSCCUNK-2	0.92
SSCCTR-A	33.34
SSCCTR-G	25.04

**BIORETENTION /RAINGARDEN BMP
AT GREENTREE PARK (GTP)
SSCC6TP**

TOTAL SEWERSHED AREA:	101.91 ACRES
SEWERSHED	ACRES
SSCC53	9.21
SSCC54	6.25
SSCC57	10.42
SSCC58	15.88
SSCC62	4.34
SSCC63	48.37
SSCCTR-C	13.28
SSCCTR-D	13.04
SSCCTR-E	0.75
SSCCTR-F	2.37

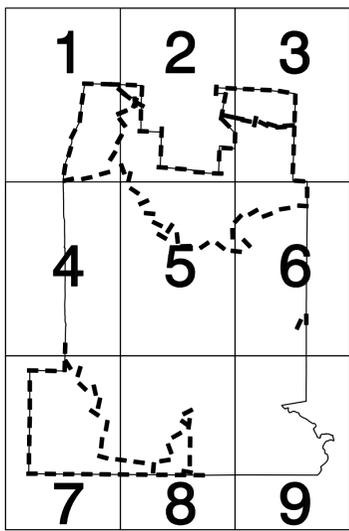
TOTAL SEWERSHED AREA:	158.60 ACRES
(CONTINUED ON QUADRANTS 2, 5 & 6)	
SEWERSHED	ACRES
SSCC65	30.65
SSCC66	4.72
SSCC68	14.80
SSCC69	3.56
SSCC65A	4.16
SSCCA.6	14.59
SSCCMRP	19.16
SSCCTR-H	11.27
SSCCTR-H1	6.19
SSCCTR-I	15.19
SSCCTR-J	9.45
SSCCTR-K	3.10
SSCCTR-L	14.22
SSCCTR-M	7.54

**DEVON ROAD PADOT PARSED OUT CRUM CREEK WATERSHED
NOTE: INCLUDED IN THE PRIVATE AREA
& EXCLUDED FROM SEWERSHED AREAS
NO ADDITIONAL DEDUCTION NECESSARY
AREA: 4.92 ACRES**

TOTAL SEWERSHED AREA:	4.64 ACRES
(CONTINUED ON QUADRANT 6)	
SEWERSHED	ACRES
SSCC64	4.64

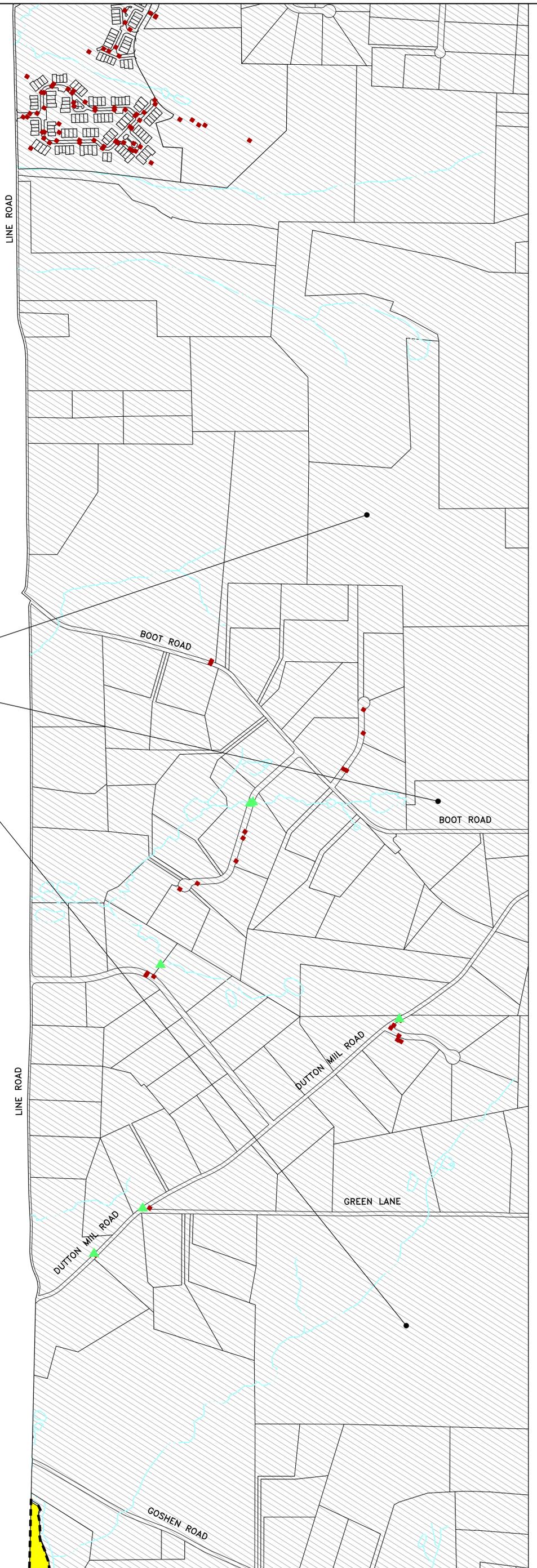
**WILLISTOWN TOWNSHIP, CHESTER COUNTY, PA
SUPPLEMENTAL MAP TO OUTFALL & URBANIZED AREA MAP
SEWERSHEDS & PARCED OUT AREAS MAP - QUADRANT 3**



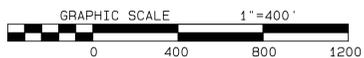


QUADRANT MAP INDEX

NON-URBANIZED AREA

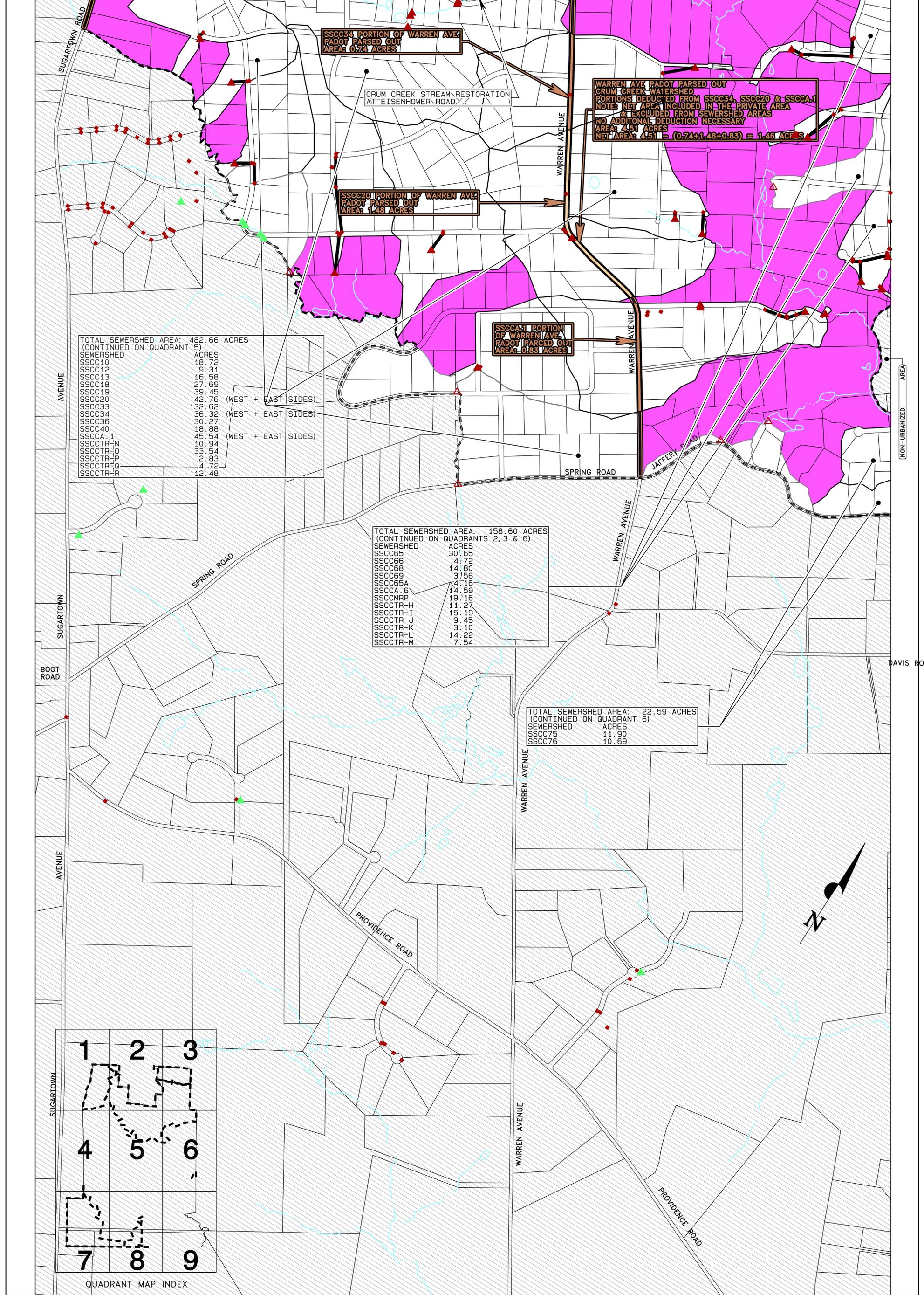


WILLISTOWN TOWNSHIP, CHESTER COUNTY, PA SUPPLEMENTAL MAP TO OUTFALL & URBANIZED AREA MAP SEWERSHEDS & PARCED OUT AREAS MAP - QUADRANT 4



REV. DATE:	DECEMBER 13, 2021
REV. DATE:	MAY 14, 2021
REV. DATE:	APRIL 23, 2021

PROJECT:	W-17-0300-33
DATE:	MARCH 11, 2021
SCALE:	1"=400'
DRAWN:	CEJ3
CAD FILE:	WILLISTOWN MS4 2018.PRO



TOTAL SEWERSHED AREA: 482.66 ACRES
(CONTINUED ON QUADRANT 5)

SEWERSHED	ACRES	
SSCC10	18.72	
SSCC12	16.94	
SSCC13	16.59	
SSCC18	27.69	
SSCC19	39.45	(WEST + EAST SIDES)
SSCC20	22.76	(WEST + EAST SIDES)
SSCC33	32.06	(WEST + EAST SIDES)
SSCC34	30.36	(WEST + EAST SIDES)
SSCC36	30.00	(WEST + EAST SIDES)
SSCC40	18.08	(WEST + EAST SIDES)
SSCCA-1	45.00	(WEST + EAST SIDES)
SSCCTR-N	39.00	
SSCCTR-P	14.00	
SSCCTR-Q	14.72	
SSCCTR-R	12.46	

TOTAL SEWERSHED AREA: 158.60 ACRES
(CONTINUED ON QUADRANTS 2, 3 & 6)

SEWERSHED	ACRES
SSCC65	30.65
SSCC66	4.72
SSCC68	14.80
SSCC69	3.56
SSCC65A	4.16
SSCCA-6	14.59
SSCCMRP	19.16
SSCCTR-H	11.27
SSCCTR-I	15.19
SSCCTR-J	9.45
SSCCTR-K	3.10
SSCCTR-L	14.22
SSCCTR-M	7.54

TOTAL SEWERSHED AREA: 22.59 ACRES
(CONTINUED ON QUADRANT 6)

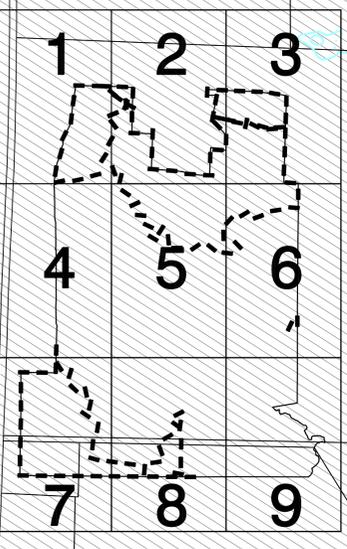
SEWERSHED	ACRES
SSCC75	11.90
SSCC76	10.69

WARREN AVE PARCED OUT
CRUM CREEK WATERSHED
PORTIONS DEDUCTED FROM SSCC34, SSCC20 & SSCCA-1
NOTES: NET AREA INCLUDED IN THE PRIVATE AREA
EXCLUDED FROM SEWERSHED AREAS
NO ADDITIONAL DEDUCTION NECESSARY
AREA: 45.00 ACRES
NET AREA: 45.00 = (0.74+1.48+0.83) = 1.46 ACRES

SSCC34 PORTION OF WARREN AVE
PARCED OUT
AREA: 0.74 ACRES

SSCC20 PORTION OF WARREN AVE
PARCED OUT
AREA: 1.48 ACRES

SSCCA-1 PORTION OF WARREN AVE
PARCED OUT
AREA: 0.83 ACRES



QUADRANT MAP INDEX

Yerkes Associates, Inc.
a crill company

CONSULTING ENGINEERS / STRUCTURAL ENGINEERING
SITE PLANNERS / LAND SURVEYORS / MUNICIPAL SERVICES

1444 PHOENIXVILLE PIKE • P.O. BOX 1568 • WEST CHESTER, PA 19380
TEL: (610) 644-4254 • FAX: (610) 640-0771

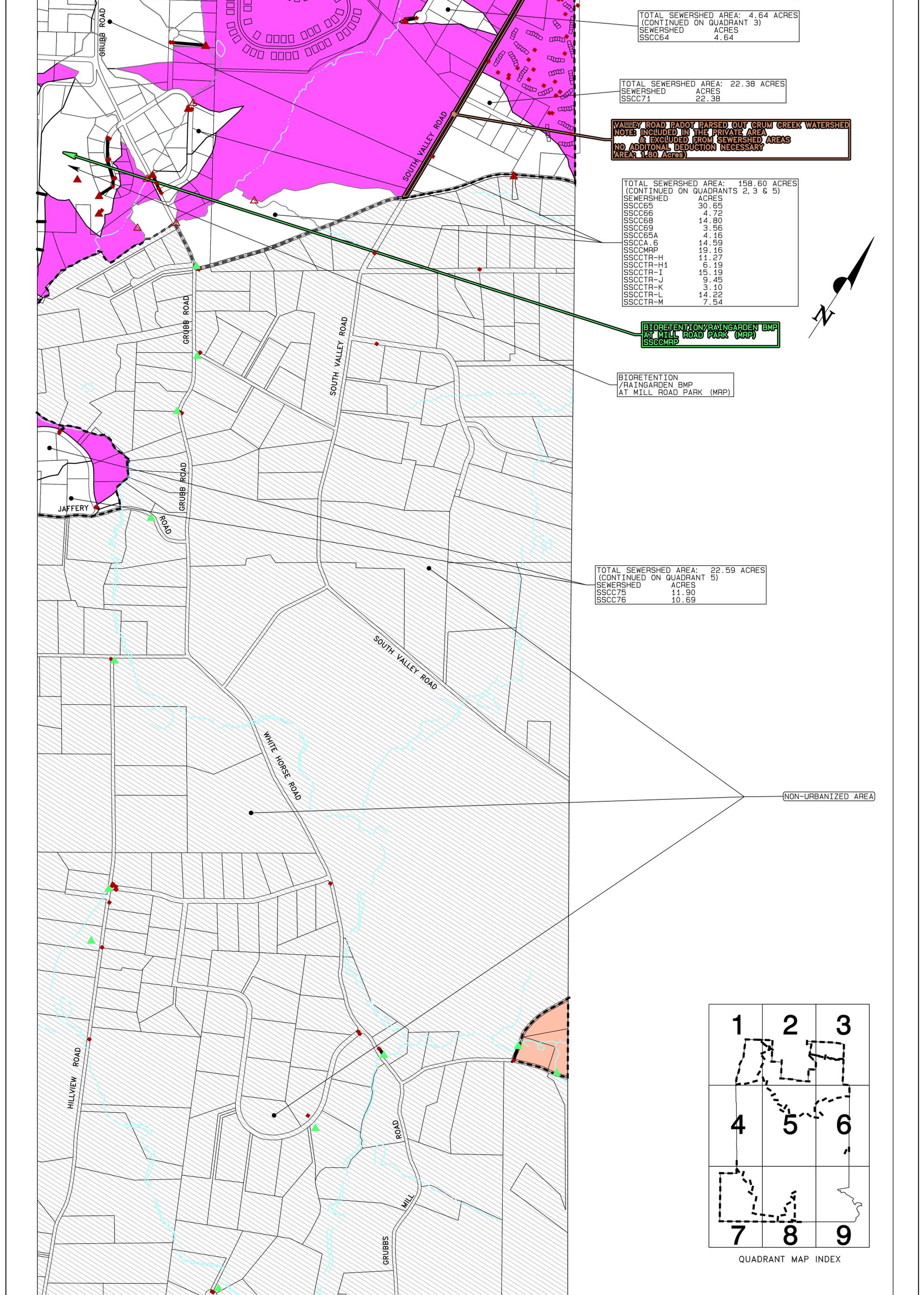
**WILLISTOWN TOWNSHIP, CHESTER COUNTY, PA
SUPPLEMENTAL MAP TO OUTFALL & URBANIZED AREA MAP
SEWERSHEDS & PARCED OUT AREAS MAP - QUADRANT 5**



PROJECT: W-17-0300-33
DATE: MARCH 11, 2021
SCALE: 1"=400'
DRAWN: CEJ3
CAD FILE: WILLISTOWN M54 2018.PRO

REV. DATE: DECEMBER 13, 2021
REV. DATE: MAY 14, 2021
REV. DATE: APRIL 23, 2021

SHEET 7 OF 11



TOTAL SEWERSHED AREA: 4.64 ACRES
 (CONTINUED ON QUADRANT 3)
 SEWERSHED ACRES
 SSCC64 4.64

TOTAL SEWERSHED AREA: 22.38 ACRES
 SEWERSHED ACRES
 SSCC71 22.38

VALLEY ROAD PADOT PARSED OUT CRUM CREEK WATERSHED
 NOTES INCLUDED IN THE PRIVATE AREA
 & EXCLUDED FROM SEWERSHED AREAS
 NO ADDITIONAL DEDUCTION NECESSARY
 (AREA: 1.80 Acres)

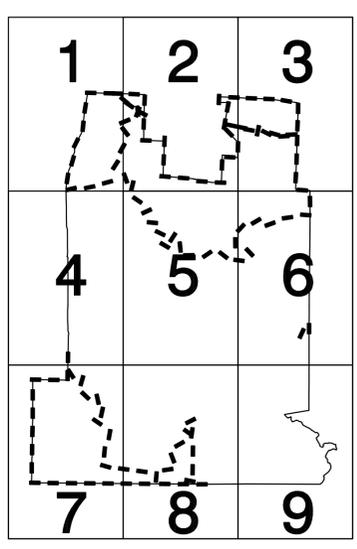
TOTAL SEWERSHED AREA: 158.60 ACRES
 (CONTINUED ON QUADRANTS 2, 3 & 5)
 SEWERSHED ACRES
 SSCC65 30.65
 SSCC66 4.72
 SSCC68 14.80
 SSCC69 3.56
 SSCC65A 4.16
 SSCCA_6 14.59
 SSCCMP 19.16
 SSCCTR-H 11.27
 SSCCTR-H1 6.19
 SSCCTR-I 15.19
 SSCCTR-J 9.45
 SSCCTR-K 3.10
 SSCCTR-L 14.22
 SSCCTR-M 7.54

BIORETENTION/RAINGARDEN BMP
 AT MILL ROAD PARK (MRP)
 SSCCMP

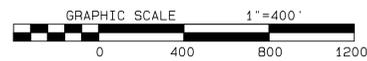
BIORETENTION
 /RAINGARDEN BMP
 AT MILL ROAD PARK (MRP)

TOTAL SEWERSHED AREA: 22.59 ACRES
 (CONTINUED ON QUADRANT 5)
 SEWERSHED ACRES
 SSCC75 11.90
 SSCC76 10.69

NON-URBANIZED AREA



QUADRANT MAP INDEX





TOTAL SEWERSHED AREA:	97.44 ACRES
SEWERSHED	ACRES
SSRC22	15.51
SSRC23	24.39
SSRCTR-H	40.34
SSRCTR-I	4.04
SSRCWP	13.16

INLET SEDIMENT FILTER BAGS (2)
AT CRATIN LANE
INLETS I-RC23A & I-RC23B

WILLISTOWN POINT TREE PLANTINGS
(SEE ALSO PLANS FOR DRAINAGE AREA)

INLET SEDIMENT FILTER BAGS (2)
AT SMEDLEY LANE
INLETS I-RC24A & I-RC24B

TOTAL SEWERSHED AREA:	121.29 ACRES
SEWERSHED	ACRES
SSRC24b	40.35
SSRC25a & SSRC25b	28.16
SSRC26	4.48
SSRC27	2.39
SSRCTR-J	5.99
SSRCTR-K	21.79
SSRCTR-L	8.12
SSRCTR-M	7.01
SSRCTR-N	2.99

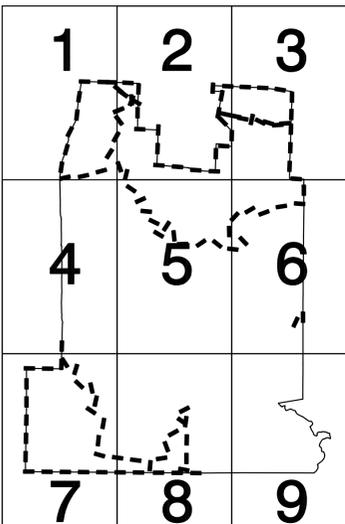
INLET SEDIMENT FILTER BAGS (2)
AT DUTTON MILL ROAD
INLETS I-RC25A & I-RC25B

SSRC25a & SSRC25b PORTION OF STREET ROAD
PADOT PARSED OUT
NOTE: INCLUDED IN THE PRIVATE AREA
& EXCLUDED FROM SEWERSHED AREAS
NO ADDITIONAL DEDUCTION NECESSARY
AREA: 1.187 ACRES

INLET SEDIMENT FILTER BAGS (3)
AT FOX RUN LANE
INLETS I-RC25A, I-RC25B & I-RC27

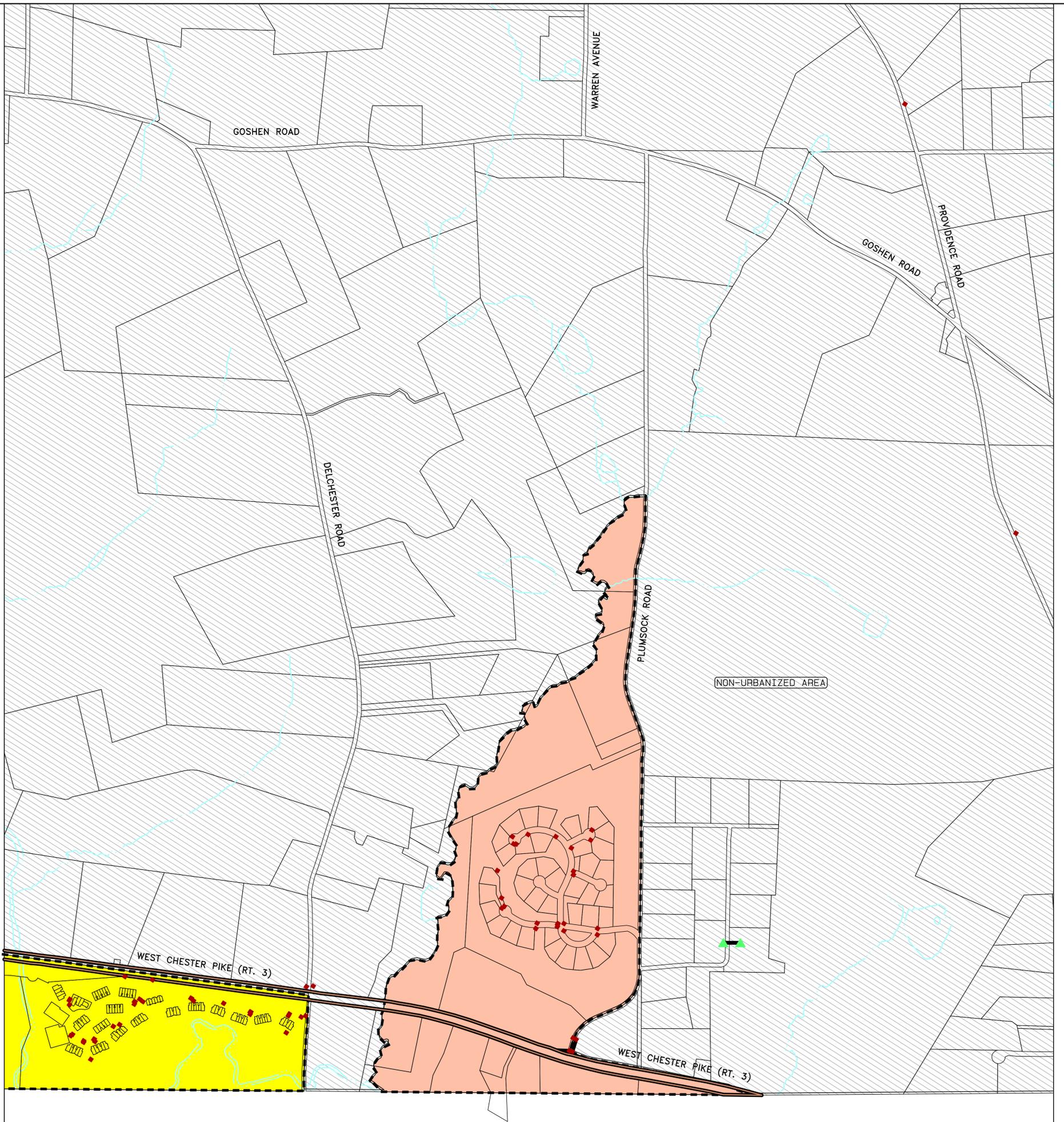
STREET ROAD AND WEST CHESTER PIKE PADOT
PARSED OUT CRUM CREEK WATERSHED
NOTE: INCLUDED IN THE PRIVATE AREA
& EXCLUDED FROM SEWERSHED AREAS
NO ADDITIONAL DEDUCTION NECESSARY
AREA: 30.46 ACRES

TOTAL SEWERSHED AREA:	4.92 ACRES
SEWERSHED	ACRES
SSRC28	4.92



QUADRANT MAP INDEX

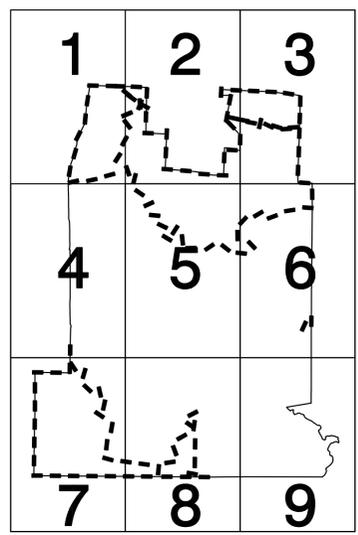




NON-URBANIZED AREA

WEST CHESTER PIKE (RT. 3)

WEST CHESTER PIKE (RT. 3)

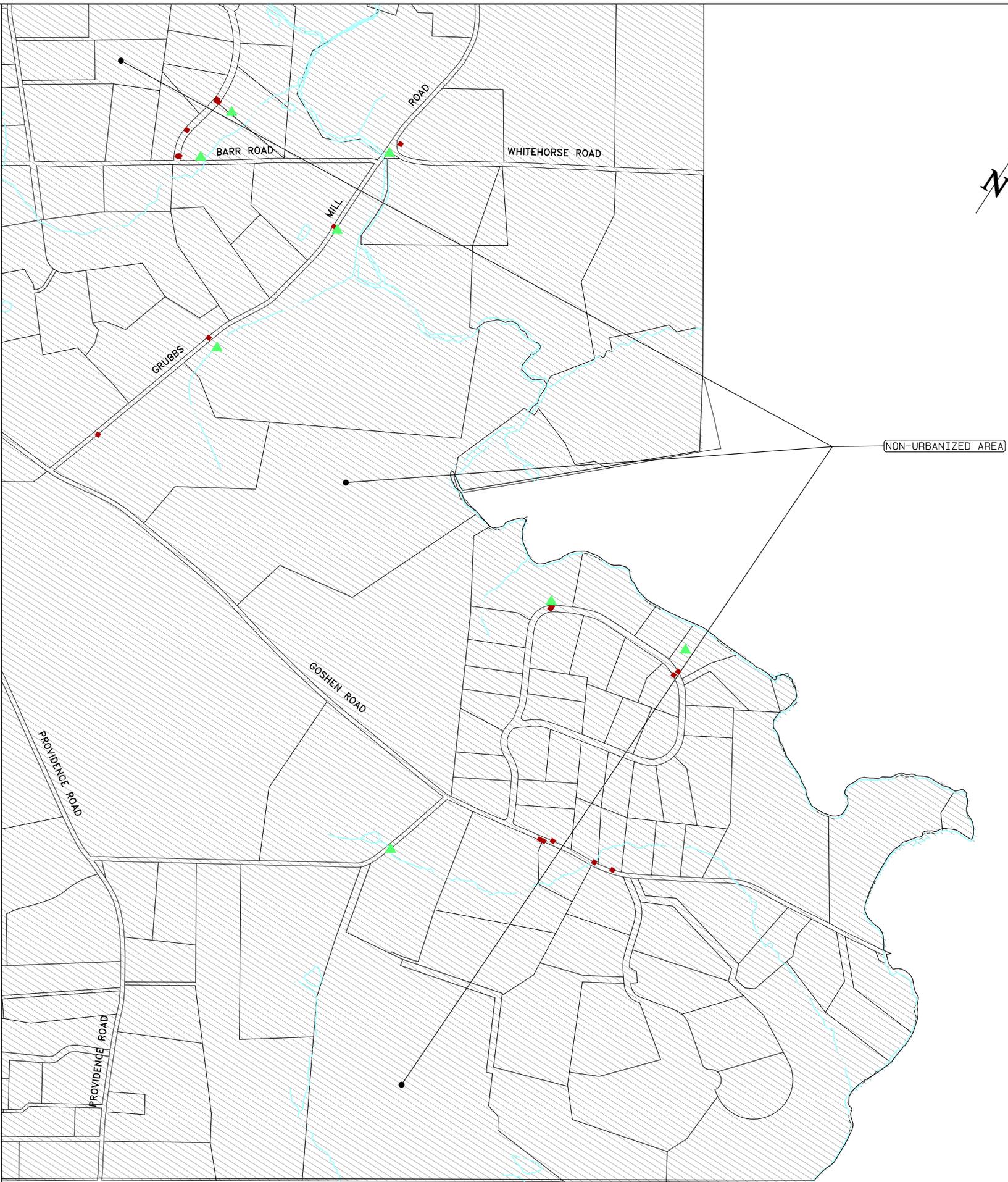


QUADRANT MAP INDEX

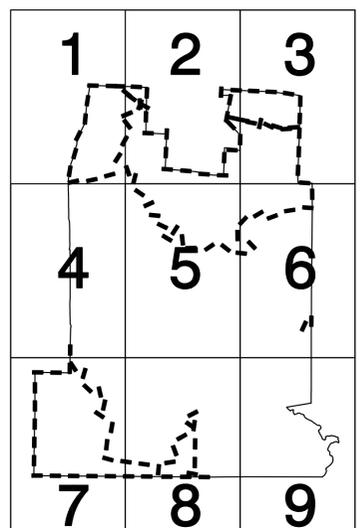
**WILLISTOWN TOWNSHIP, CHESTER COUNTY, PA
 SUPPLEMENTAL MAP TO OUTFALL & URBANIZED AREA MAP
 SEWERSHEDS & PARCED OUT AREAS MAP - QUADRANT 8**



PROJECT:	W-17-0300-33
DATE:	MARCH 11, 2021
SCALE:	1"=400'
DRAWN:	CEJ3
CAD FILE:	WILLISTOWN M54 2018.PRO
REV. DATE:	DECEMBER 13, 2021
REV. DATE:	MAY 14, 2021
REV. DATE:	APRIL 23, 2021



NON-URBANIZED AREA



QUADRANT MAP INDEX

**WILLISTOWN TOWNSHIP, CHESTER COUNTY, PA
SUPPLEMENTAL MAP TO OUTFALL & URBANIZED AREA MAP
SEWERSHEDS & PARCED OUT AREAS MAP - QUADRANT 9**

