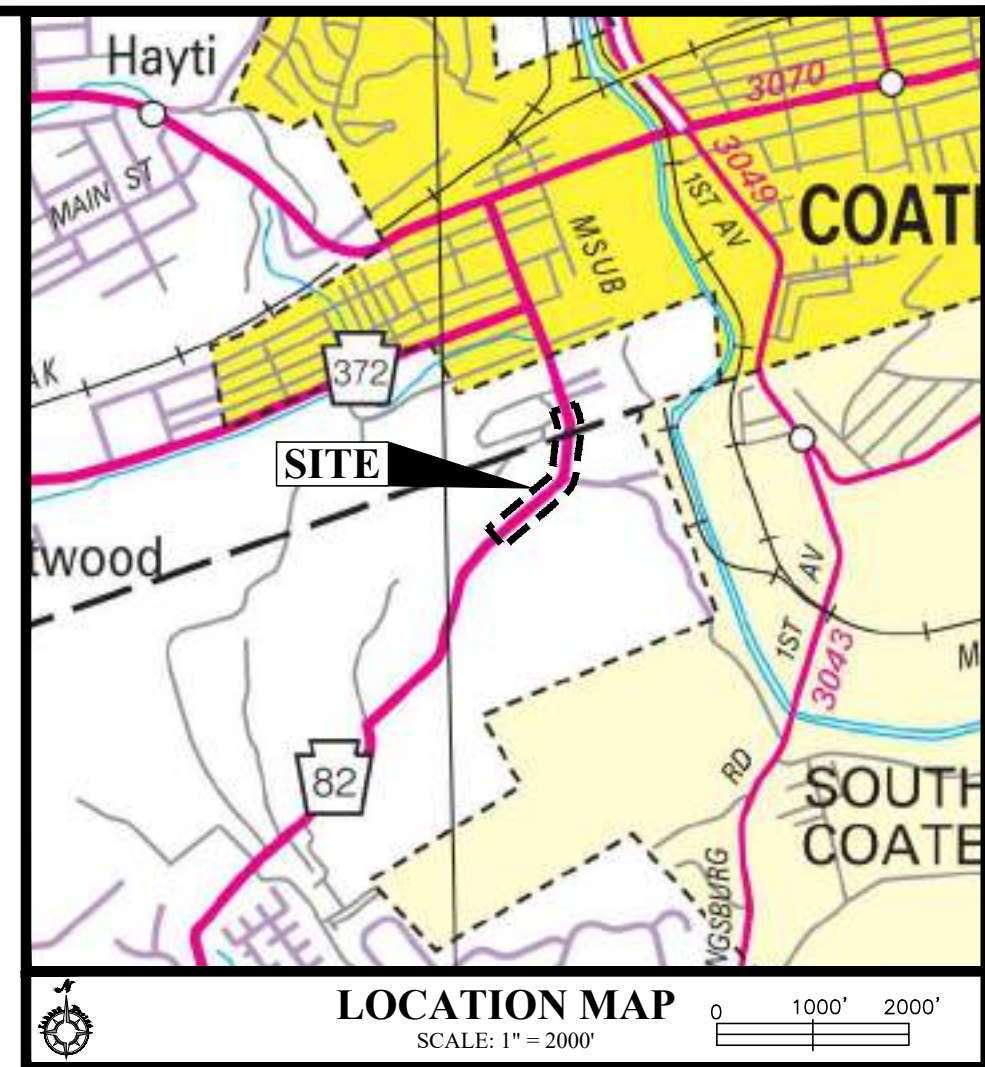


STORMWATER RUNOFF AND DRAINAGE ANALYSIS STUDY

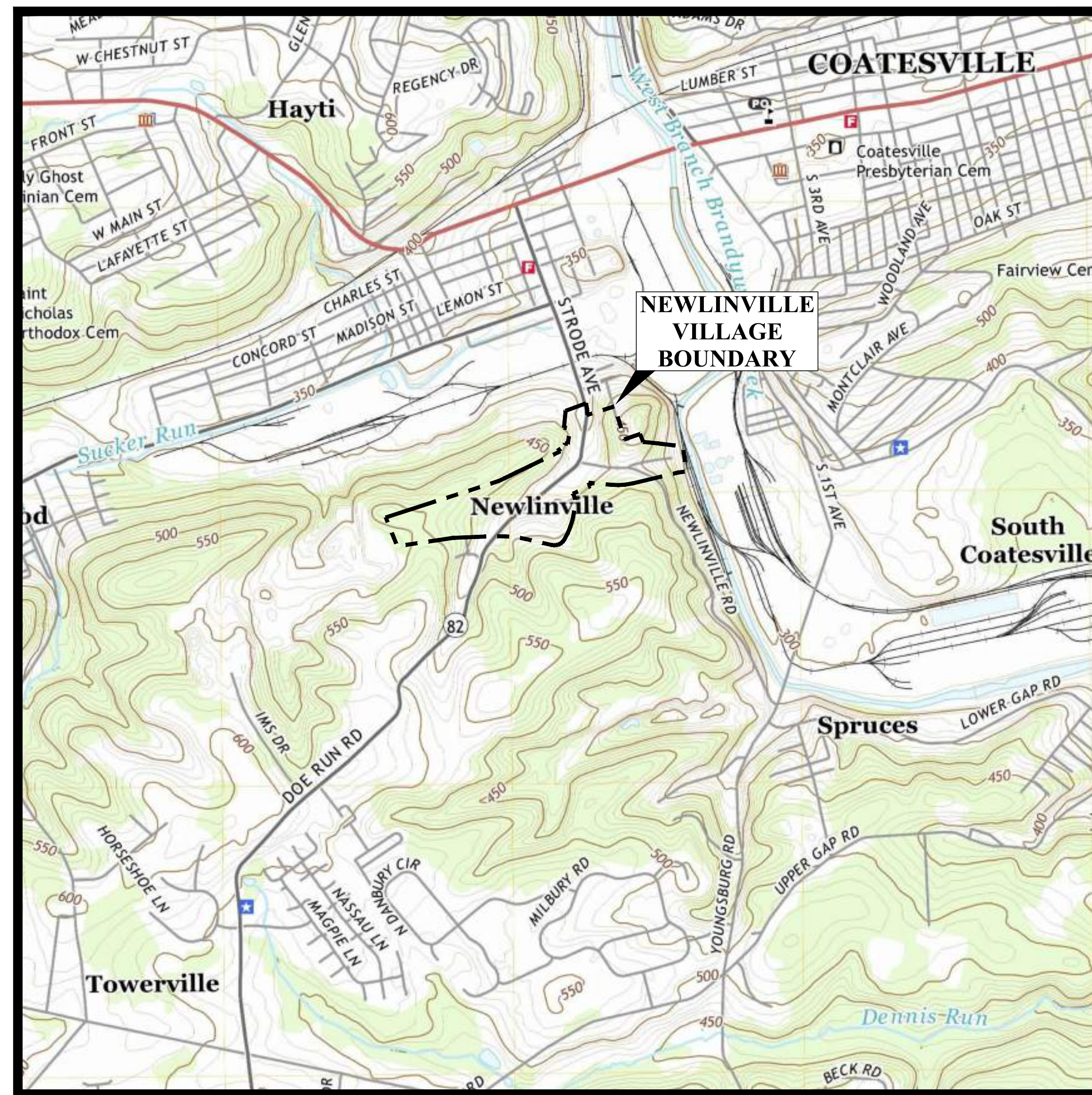
FOR

NEWLINVILLE VILLAGE

EAST FALLOWFIELD TOWNSHIP • CHESTER COUNTY • PENNSYLVANIA



- GENERAL NOTES:**
1. TOPOGRAPHIC INFORMATION AND IMPROVEMENTS SHOWN BY PHYSICAL FIELD SURVEY PERFORMED IN AUGUST & SEPTEMBER, 2022 BY INLAND DESIGN, LLC, WEST CHESTER, PA. CONTOUR INTERVAL = 2 FEET.
 2. TOPOGRAPHIC INFORMATION AND IMPROVEMENTS SUPPLEMENTED WITH PA LIDAR CONTOURS AND AERIAL PHOTOGRAPHY.
 3. ELEVATIONS BASED ON NAVD83 DATUM. VERTICAL DATUM OBTAINED BY GPS OBSERVATIONS ON AUGUST 2, 2022.
 4. THERE IS NO 100 YEAR FLOODPLAIN LINE SHOWN ON THE PLAN, WHICH WAS DETERMINED FROM THE REFERENCE FIRM PANELS, MAP NUMBER 420601906, EFFECTIVE SEPTEMBER 2017.
 5. SOILS INFORMATION TAKEN FROM UNITED STATES DEPARTMENT OF AGRICULTURE NATURAL RESOURCE CONSERVATION SERVICE.
 6. SITE GEOLOGY IS CHARACTERIZED AS: ORDOVICIAN AND CAMBRIAN CONESTOGA FORMATION (OC) TOWARDS THE NORTH SIDE OF THE DRAINAGE AREA, AND PROBABLY LOWER PALEOZOIC OCTOBER FORMATION (NO) TOWARDS THE SOUTH SIDE.
 7. THE SITE IS LOCATED IN THE WEST BRANCH BRANDYWINE CREEK WATERSHED, PA CIP DESIGNATION: WARM WATER FISHES (WTF), MIGRATORY FISH (MF).
 8. COMPLETENESS OR ACCURACY OF LOCATION AND DEPTH OF UNDERGROUND UTILITIES AND FACILITIES CANNOT BE GUARANTEED. THE CONTRACTOR MUST VERIFY THE LOCATION AND DEPTH OF ALL UNDERGROUND UTILITIES AND/OR FACILITIES PRIOR TO BEGINNING ANY EARTH-MOVING ACTIVITIES.



USGS MAP
1" = 1000'
0 500' 1,000'



AERIAL MAP
1" = 1000'
0 500' 1,000'

Sheet List Table

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	OVERALL TOPOGRAPHIC AND VILLAGE AREA MAP
3	SITE ANALYSIS MAP
4	OVERALL WATERSHED BOUNDARY MAP
5	DETAILED EXISTING FEATURES & CONVEYANCE PLAN
6	DETAILED EXISTING FEATURES & CONVEYANCE PLAN

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Info@InlandDesign.net

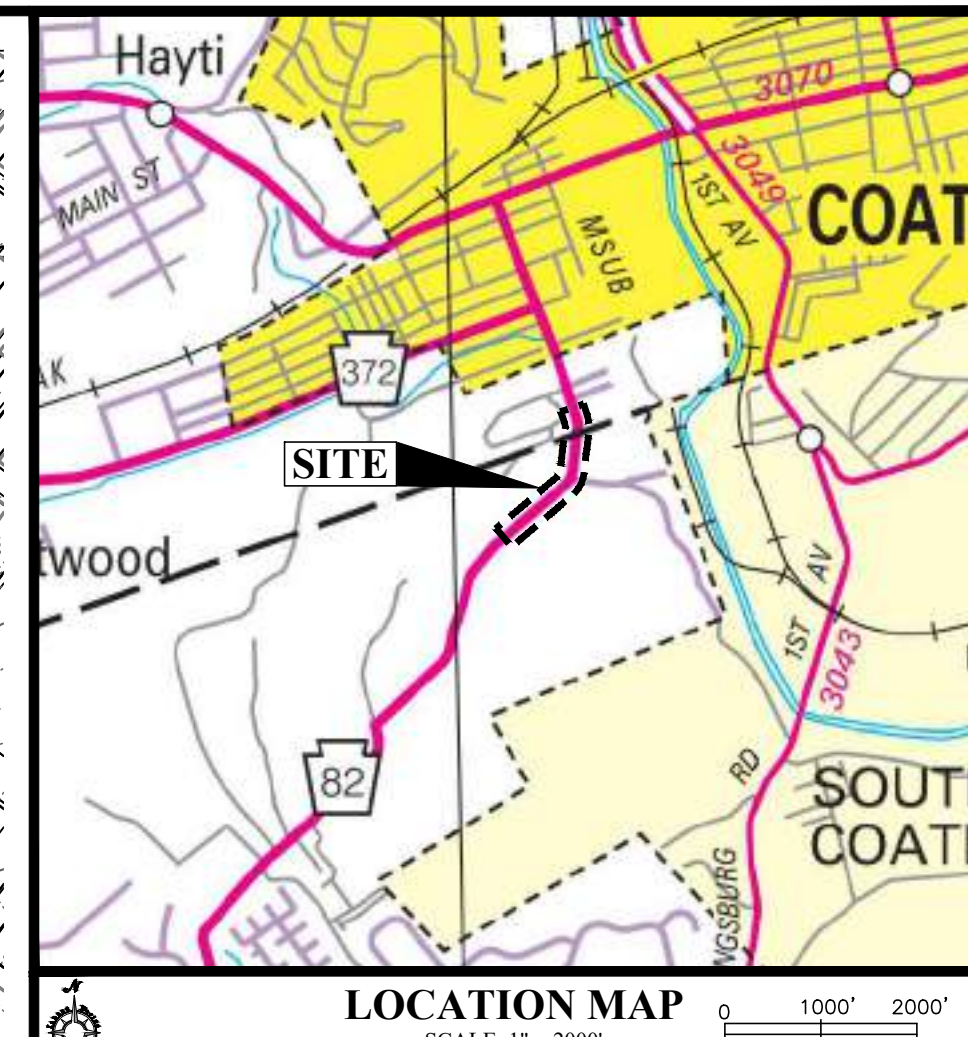
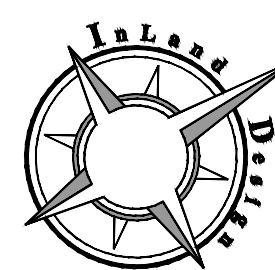
No.	Date:	Description:

STORMWATER RUNOFF AND DRAINAGE ANALYSIS STUDY

Date: 11/18/2022
Scale: AS SHOWN
Drawn by: SMF
Checked by: CAD
Project No. 11904

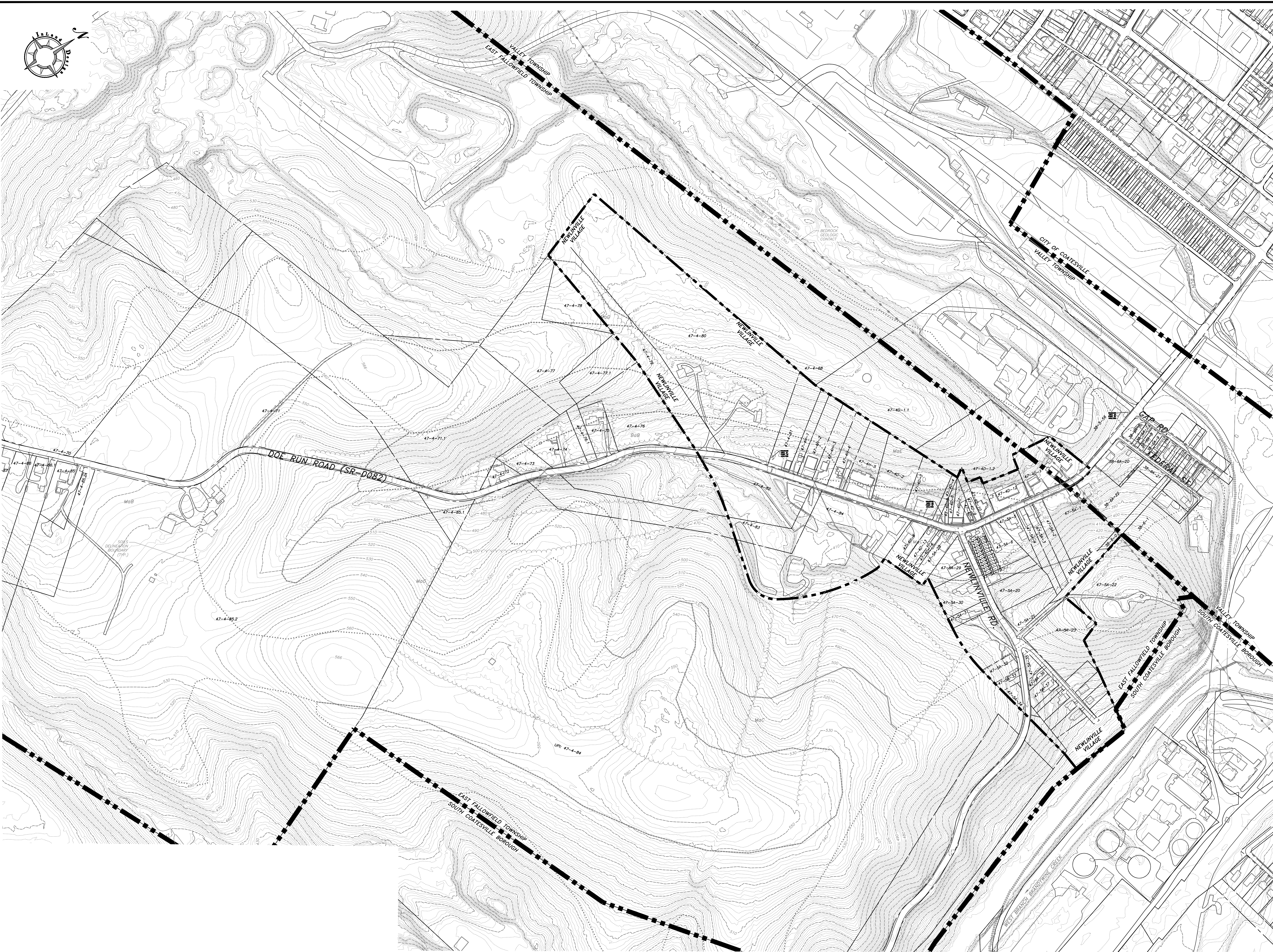
COVER SHEET FOR
NEWLINVILLE VILLAGE
NEWLINVILLE RD. AND DOE RUN RD.
COATESVILLE, PA 19320
EAST FALLOWFIELD TOWNSHIP • CHESTER COUNTY • PENNSYLVANIA

SHEET
1
OF 6



- GENERAL NOTES:**
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 4. THERE IS NO 100 YEAR FLOODPLAIN LINE SHOWN ON THE PLAN, WHICH WAS DETERMINED FROM THE REFERENCE FIRM PANELS, MAP NUMBER 4209C090G, EFFECTIVE SEPTEMBER 29, 2017.
 5. SOILS INFORMATION TAKEN FROM UNITED STATES DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE.
 6. SITE GEOLOGY IS CHARACTERIZED AS: ORDOVICIAN AND CAMBRIAN (ONESTOGA FORMATION (OC)) TOWARDS THE NORTH SIDE OF THE DRAINAGE AREA, AND PROBABLY LOWER PALEOZOIC (TORBORA FORMATION (TO)) TOWARDS THE SOUTH SIDE.
 7. THE SITE IS LOCATED IN THE WEST BRANCH BRANDYWINE CREEK WATERSHED, PA CWA #19 DESIGNATION: WARM WATER FISHES (WVF) MIGRATORY FISH (MF).
 8. COMPLETENESS OR ACCURACY OF LOCATION AND DEPTH OF UNDERGROUND UTILITIES AND FACILITIES CANNOT BE GUARANTEED. THE CONTRACTOR MUST VERIFY THE LOCATION AND DEPTH OF ALL UNDERGROUND UTILITIES AND/OR FACILITIES PRIOR TO BEGINNING ANY EARTH-MOVING ACTIVITIES.

- LEGEND**
- 102 --- EXISTING 2' CONTOUR W/ ELEVATION
 - 100 --- EXISTING 10' CONTOUR W/ ELEVATION
 - ADJOINING PROPERTY LINE
 - 47-40-1.2 --- ADJOINING PARCEL UPI NUMBER
 - EXISTING ROAD CENTERLINE
 - EXISTING RIGHT OF WAY LINE
 - EXISTING CURB LINE
 - EXISTING ROAD PAVING
 - EXISTING DRIVEWAY
 - EXISTING GRAVEL DRIVE
 - EXISTING RAINROAD
 - EXISTING WALL
 - EXISTING CONCRETE
 - EXISTING STREAM
 - EXISTING TREELINE
 - EXISTING TREE SYMBOLS
 - EXISTING SANITARY FORCE MAIN
 - EXISTING WATER LINE
 - EXISTING WATER VALVE
 - EXISTING ELECTRIC LINE
 - EXISTING GAS LINE
 - EXISTING TELEPHONE LINE
 - EXISTING UTILITY POLE
 - EXISTING STORM STRUCTURES & PIPE
 - EXISTING SANITARY STRUCTURES & PIPE
 - DRAINAGE AREA BOUNDARY
 - NEWLINVILLE VILLAGE BOUNDARY
 - MUNICIPAL BOUNDARY



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 Info@InlandDesign.net

CHARLES A. DOBSON
 ENGINEER
 REGISTERED PROFESSIONAL ENGINEER
 PENNSYLVANIA
 NO. 041814

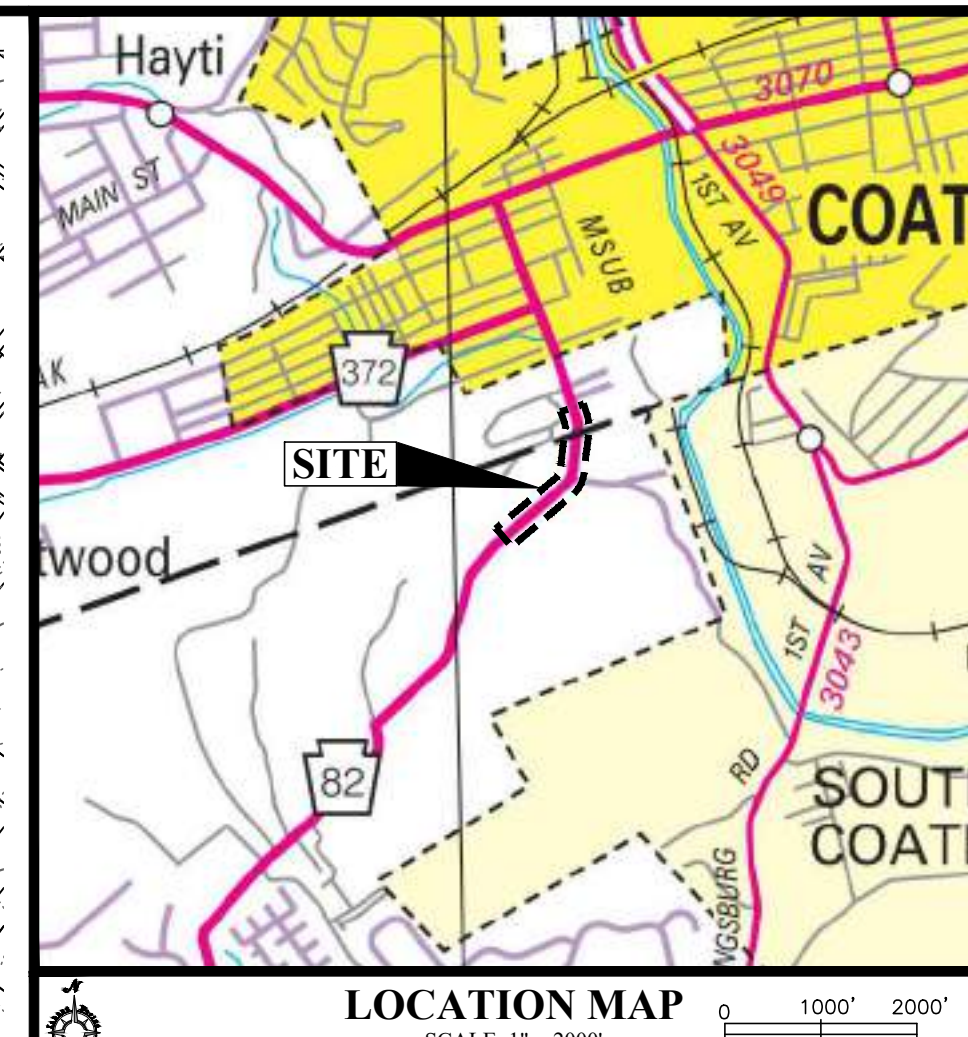
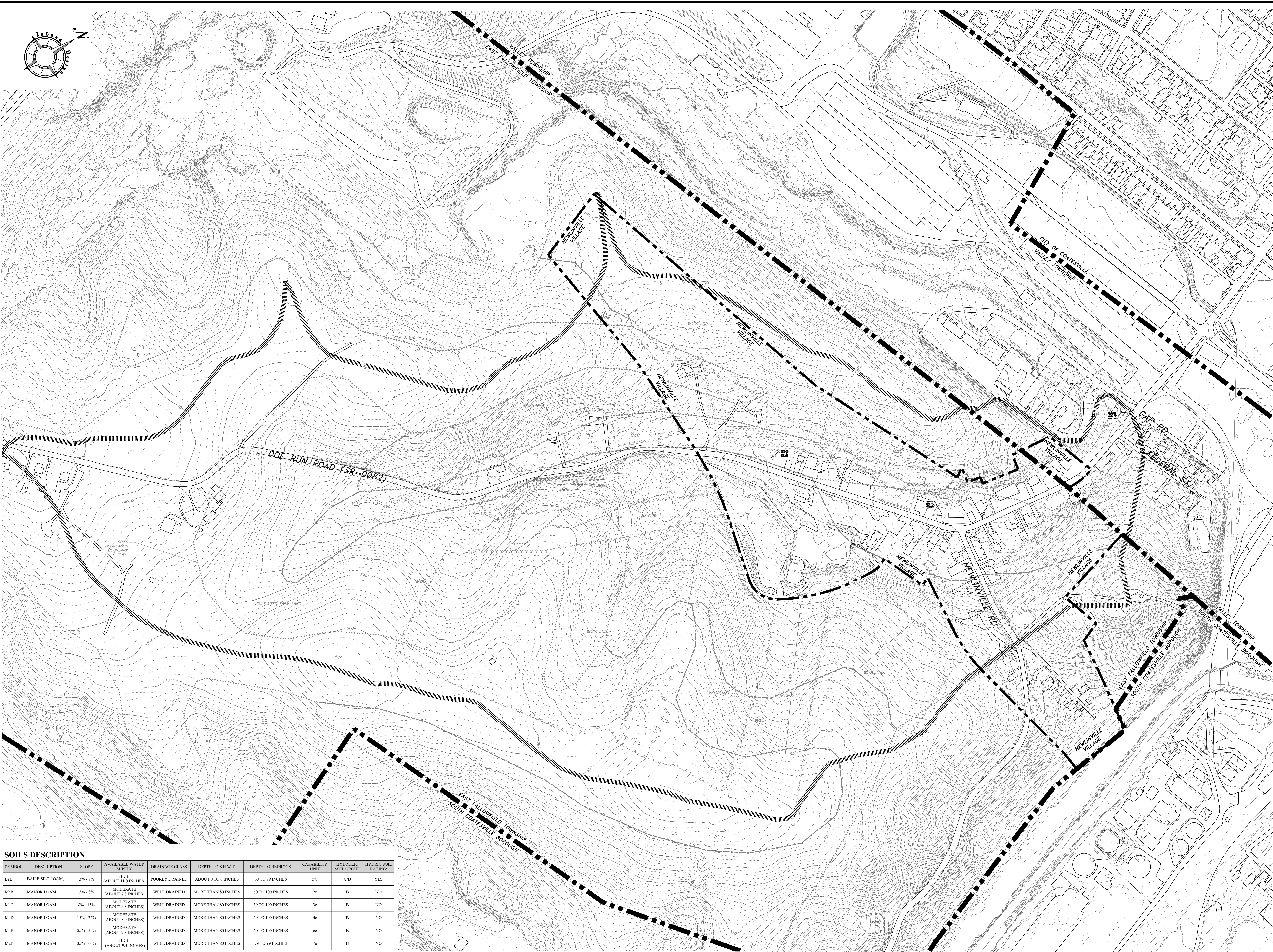
No.	Date:	Description:



Date: 11/18/2022
 Scale: 1" = 160'
 Drawn by: SMF
 Checked by: CAD
 Project No. **11904**

OVERALL TOPOGRAPHIC AND VILLAGE AREA MAP
 FOR
NEWLINVILLE VILLAGE
NEWLINVILLE RD. AND DOE RUN RD.
COATESVILLE, PA 19320
 EAST FALLOWFIELD TOWNSHIP • CHESTER COUNTY • PENNSYLVANIA

SHEET
2
OF 6



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 6. SITE GEOLOGY IS CHARACTERIZED AS: ORDOVICIAN AND CAMBRIAN CONESTOGA FORMATION (OC) TOWARDS THE NORTH SIDE OF THE DRAINAGE AREA, AND PROBABLY LOWER PALEOZOIC OCTOPHORO FORMATION (O) TOWARDS THE SOUTH SIDE.
 7. THE SITE IS LOCATED IN THE WEST BRANCH BRANDYWINE CREEK WATERSHED, PA CUP #1 DESIGNATION: WARM WATER FISHES (W) MIGRATORY FISH (MF).
 8. COMPLETENESS OR ACCURACY OF LOCATION AND DEPTH OF UNDERGROUND UTILITIES AND FACILITIES CANNOT BE GUARANTEED. THE CONTRACTOR MUST VERIFY THE LOCATION AND DEPTH OF ALL UNDERGROUND UTILITIES AND/OR FACILITIES PRIOR TO BEGINNING ANY EARTH-MOVING ACTIVITIES.

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- 102 --- EXISTING 2' CONTOUR W/ ELEVATION
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 - --- ADJOINING PROPERTY LINE
 - --- EXISTING ROAD CENTERLINE
 - --- EXISTING RIGHT OF WAY LINE
 - --- EXISTING CURB LINE
 - --- EXISTING ROAD / PAVING
 - --- EXISTING DRAINWAY
 - --- EXISTING GRAVEL DRIVE
 - --- EXISTING RAILROAD
 - --- EXISTING WALL
 - --- EXISTING CONCRETE
 - --- EXISTING STREAM
 - --- EXISTING TREELINE
 - --- SOILS LINE AND DESCRIPTION
 - --- EXISTING TREE SYMBOLS
 - --- EXISTING SANITARY FORCE MAIN
 - --- EXISTING WATER LINE
 - --- EXISTING WATER VALVE
 - --- EXISTING ELECTRIC LINE
 - --- EXISTING GAS LINE
 - --- EXISTING TELEPHONE LINE
 - --- EXISTING UTILITY POLE
 - --- EXISTING STORM STRUCTURES & PIPE
 - --- DRAINAGE AREA BOUNDARY
 - --- NEWLINVILLE VILLAGE BOUNDARY
 - --- MUNICIPAL BOUNDARY

- LAND COVER LEGEND**
- IMPERVIOUS
 - WOODLANDS
 - MEADOW
 - LAWN
 - CULTIVATED FARM LAND

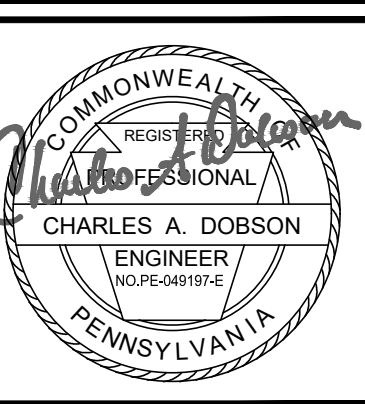
SOILS DESCRIPTION

SYMBOL	DESCRIPTION	SLOPE	AVAILABLE WATER SUPPLY	DRAINAGE CLASS	DEPTH TO S.H.W.T.	DEPTH TO BEDROCK	CAPABILITY UNIT	HYDROLOGIC SOIL GROUP	HYDRIC SOIL RATING
BsB	BAILE SILT LOAM	3% - 8%	HIGH (ABOUT 11.0 INCHES)	POORLY DRAINED	ABOUT 0 TO 6 INCHES	60 TO 99 INCHES	5w	C/D	YES
MaB	MANOR LOAM	3% - 8%	MODERATE (ABOUT 7.8 INCHES)	WELL DRAINED	MORE THAN 80 INCHES	60 TO 100 INCHES	2e	B	NO
MaC	MANOR LOAM	8% - 15%	MODERATE (ABOUT 8.8 INCHES)	WELL DRAINED	MORE THAN 80 INCHES	59 TO 100 INCHES	3e	B	NO
MaD	MANOR LOAM	15% - 25%	MODERATE (ABOUT 8.0 INCHES)	WELL DRAINED	MORE THAN 80 INCHES	59 TO 100 INCHES	4e	B	NO
MaE	MANOR LOAM	25% - 35%	MODERATE (ABOUT 7.8 INCHES)	WELL DRAINED	MORE THAN 80 INCHES	60 TO 100 INCHES	6e	B	NO
MaF	MANOR LOAM	35% - 60%	HIGH (ABOUT 9.4 INCHES)	WELL DRAINED	MORE THAN 80 INCHES	79 TO 99 INCHES	7e	B	NO

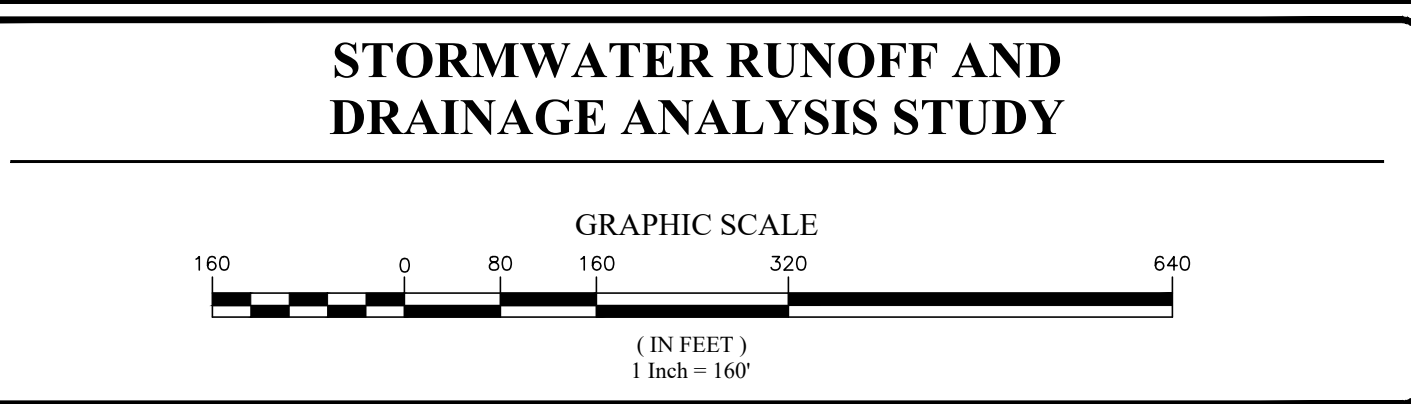
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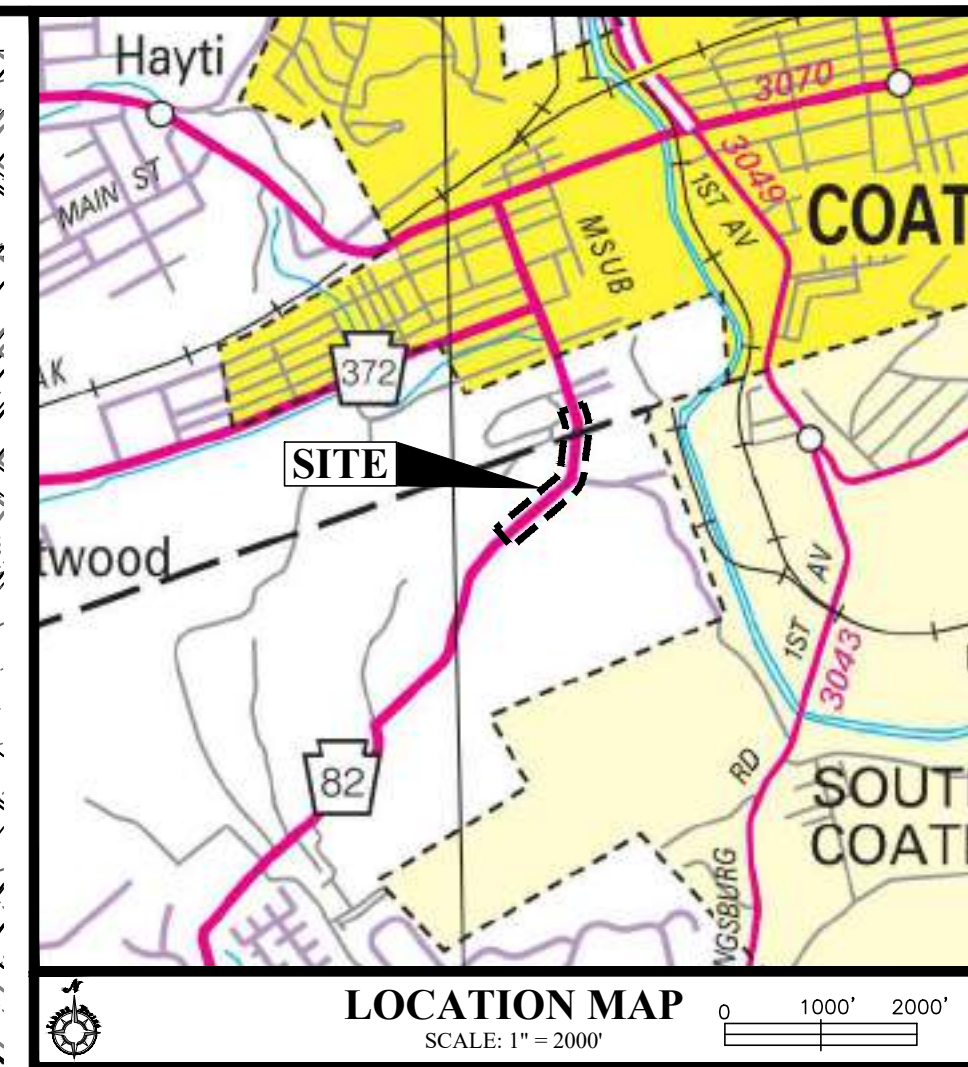
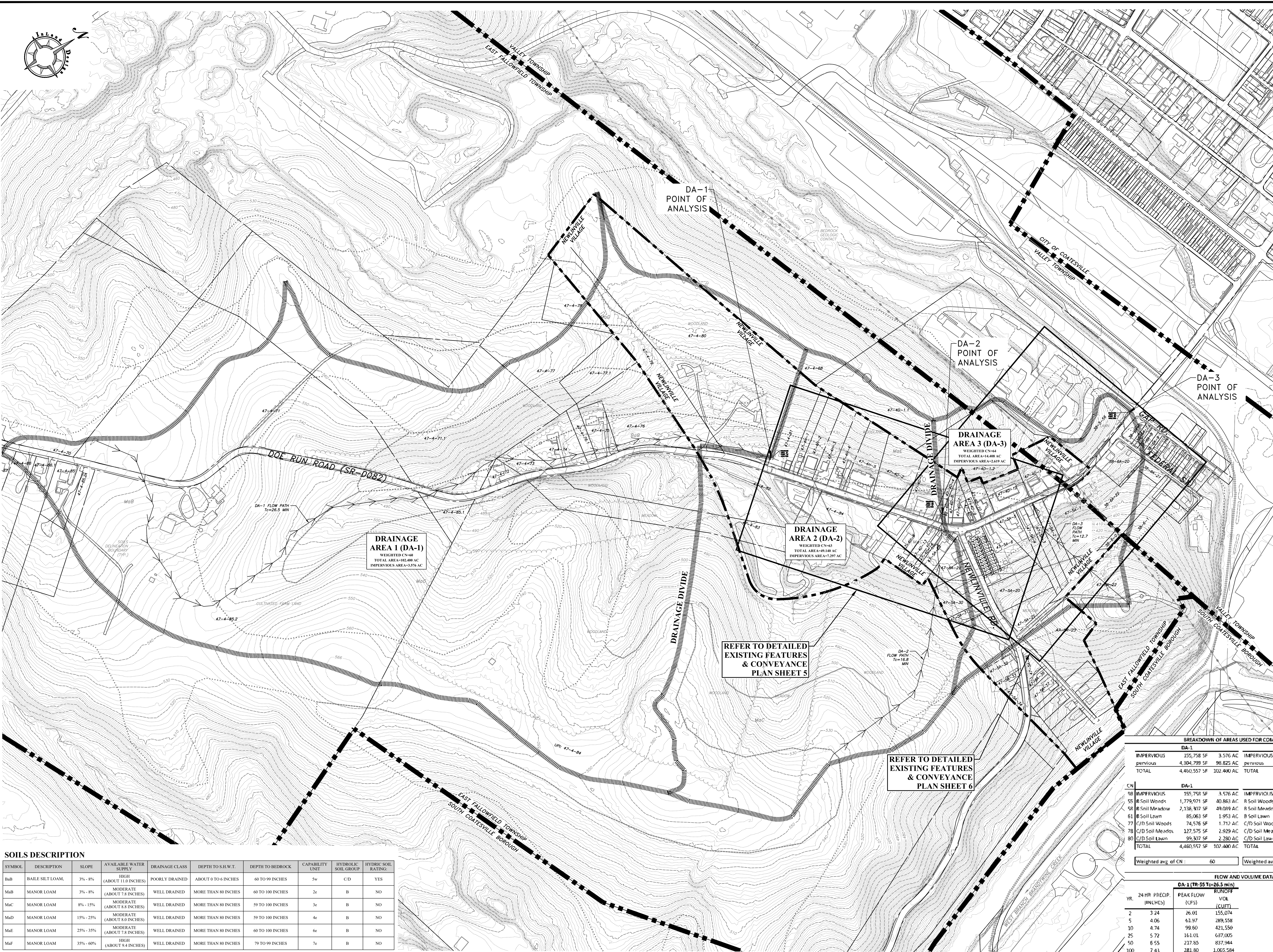
No.	Date:	Description:



Date: 11/18/2022
 Scale: 1" = 160'
 Drawn by: SMF
 Checked by: CAD
 Project No: 11904

SITE ANALYSIS MAP FOR
NEWLINVILLE VILLAGE
NEWLINVILLE RD. AND DOE RUN RD.
COATESVILLE, PA 19320
 EAST FALLOWFIELD TOWNSHIP • CHESTER COUNTY • PENNSYLVANIA

SHEET
3
OF 6



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LEGEND

---102---	EXISTING 2" CONTOUR W/ ELEVATION
---100---	EXISTING 10" CONTOUR W/ ELEVATION
---	ADJOINING PROPERTY LINE
---	EXISTING ROAD CENTERLINE
---	EXISTING RIGHT OF WAY LINE
---	EXISTING CURB LINE
---	EXISTING ROAD / PAVING
---	EXISTING DRAINAGE WAY
---	EXISTING GRAVEL DRIVE
---	EXISTING RAINROAD
---	EXISTING WALL
---	EXISTING CONCRETE
---	EXISTING STREAM
---	EXISTING TREELINE
---	SOILS LINE AND DESCRIPTION
---	EXISTING TREE SYMBOLS
---	EXISTING SANITARY FORCE MAIN
---	EXISTING WATER VALVE
---	EXISTING ELECTRIC LINE
---	EXISTING GAS LINE
---	EXISTING TELEPHONE LINE
---	EXISTING UTILITY POLE
---	EXISTING SANITARY FORCE MAIN PIPE
---	DRAINAGE AREA BOUNDARY
---	NEWLINVILLE VILLAGE BOUNDARY
---	MUNICIPAL BOUNDARY

SOILS DESCRIPTION

SYMBOL	DESCRIPTION	SLOPE	AVAILABLE WATER SUPPLY	DRAINAGE CLASS	DEPTH TO S.H.W.T.	DEPTH TO BEDROCK	CAPABILITY UNIT	HYDROLOGIC SOIL GROUP	HYDRIC SOIL RATING
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MaF	MANOR LOAM	35% - 60%	HIGH (ABOUT 9.4 INCHES)	WELL DRAINED	MORE THAN 80 INCHES	79 TO 99 INCHES	7e	B	NO

BREAKDOWN OF AREAS USED FOR COMPOSITE CN VALUE FOR EACH DRAINAGE AREA (DA -)

DA-1		DA-2		DA-3	
IMPERVIOUS	155,758 SF 3.576 AC	IMPERVIOUS	317,864 SF 7.297 AC	IMPERVIOUS	114,089 SF 2.619 AC
pervious	4,304,799 SF 98.825 AC	pervious	1,822,657 SF 41.842 AC	pervious	513,536 SF 11.789 AC
TOTAL	4,460,557 SF 102.400 AC	TOTAL	2,140,521 SF 49.140 AC	TOTAL	627,627 SF 14.408 AC

FLOW AND VOLUME DATA FROM AUTOCAD CIVIL3D HYDROFLOW

YR.	24 HR PRECIP. (INCHES)	DA-1 (TR-55 To=18.0 min)		DA-2 (TR-55 To=18.0 min)		DA-3 (TR-55 To=12.7 min)	
		PEAK FLOW (CFS)	VOL (CUFT)	PEAK FLOW (CFS)	VOL (CUFT)	PEAK FLOW (CFS)	VOL (CUFT)
2	3.24	26.01	155,074	22.67	95,634	9.86	31,170
5	4.06	61.97	289,558	47.44	169,561	19.34	54,284
10	4.74	99.60	421,550	71.08	240,247	28.21	76,292
25	5.72	161.01	687,005	108.65	353,739	42.17	113,443
50	6.55	217.85	837,944	142.83	458,217	54.80	143,672
100	7.43	281.80	1,065,584	181.48	575,502	68.52	179,478

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 Civil Engineers, Surveyors & Land Development Consultants
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 Info@InlandDesign.net

CHARLES A. DOBSON
 ENGINEER
 PROFESSIONAL
 PENNSYLVANIA

No.	Date:	Description:

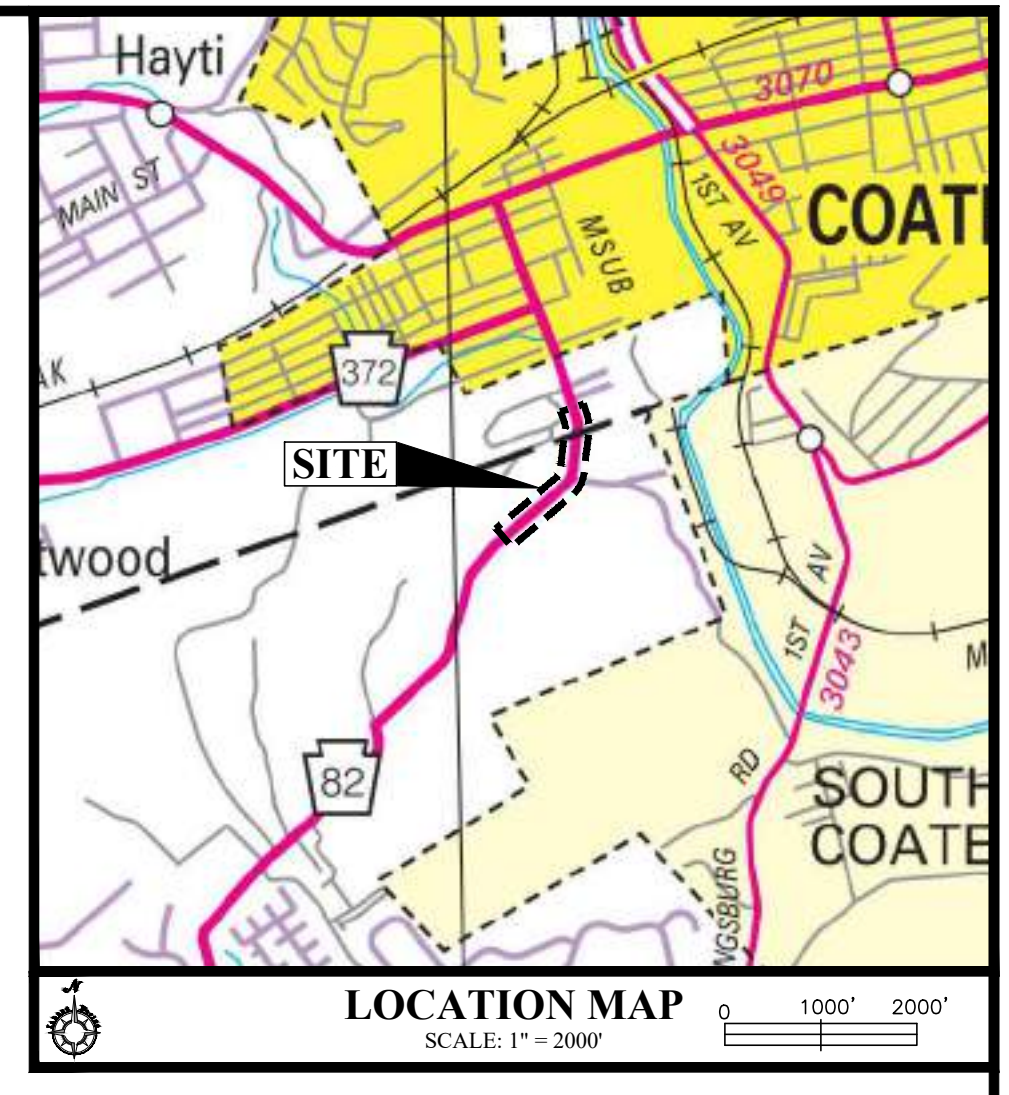
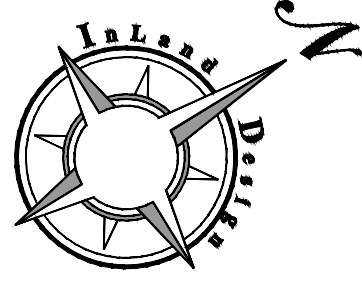
STORMWATER RUNOFF AND DRAINAGE ANALYSIS STUDY

GRAPHIC SCALE
 0 80 160 320 640
 (IN FEET)
 1 inch = 160'

OVERALL WATERSHED BOUNDARY MAP FOR NEWLINVILLE VILLAGE
 NEWLINVILLE RD. AND DOE RUN RD.
 COATESVILLE, PA 19320
 EAST FALLOWFIELD TOWNSHIP • CHESTER COUNTY • PENNSYLVANIA

SHEET 4 OF 6

N:\1900\1904\Drawings\Drawings\04 - OVERALL WATERSHED BOUNDARY MAP.dwg



- LEGEND**
- ADJOINING PROPERTY LINE
 - 102- EXISTING 2' CONTOUR W/ ELEVATION
 - 100- EXISTING 10' CONTOUR W/ ELEVATION
 - EXISTING CONCRETE
 - EXISTING UTILITY POLE
 - EXISTING WATER VALVE
 - EXISTING STORM STRUCTURES & PIPE
 - EXISTING SANITARY STRUCTURES & PIPE
 - EXISTING CURB LINE
 - EXISTING ROAD / PAVING
 - EXISTING DRIVEWAY
 - EXISTING SANITARY FORCE MAIN
 - EXISTING WATER LINE
 - EXISTING ELECTRIC LINE
 - EXISTING GAS LINE
 - EXISTING TELEPHONE LINE

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PENNSYLVANIA ONE CALIBRATION
 REGISTERED PROFESSIONAL ENGINEER
 CHARLES A. DOBSON
 PENNSYLVANIA

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No.	Date	Description

STORMWATER RUNOFF AND DRAINAGE ANALYSIS STUDY

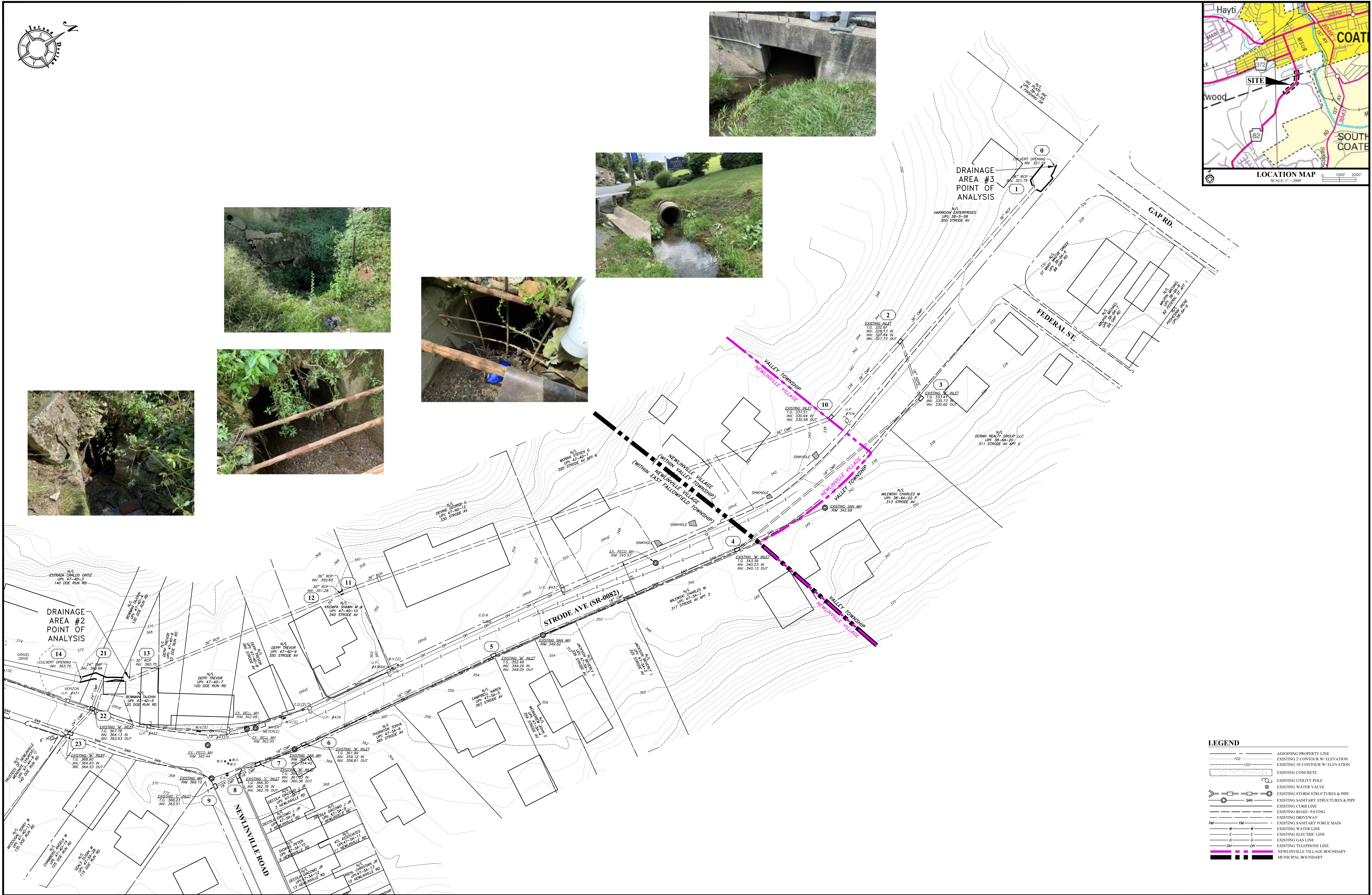
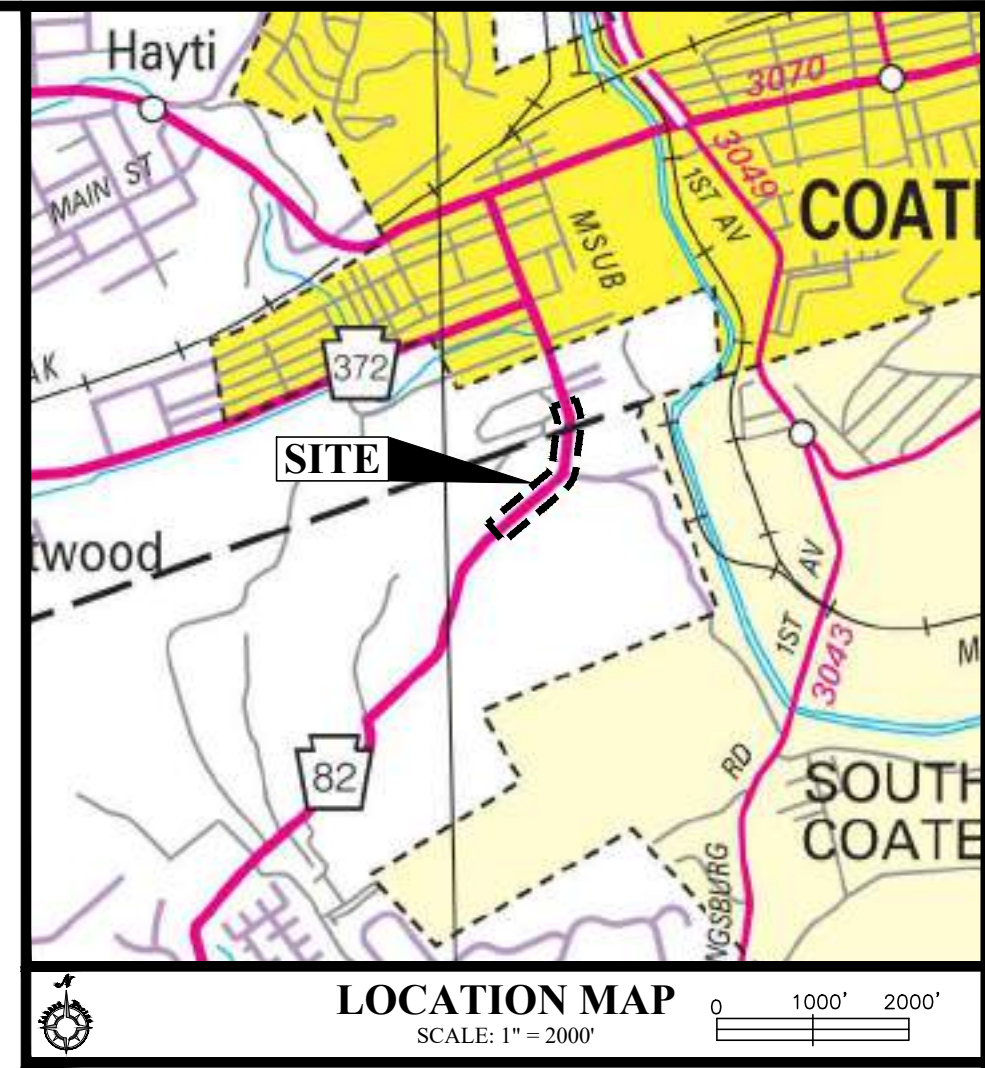
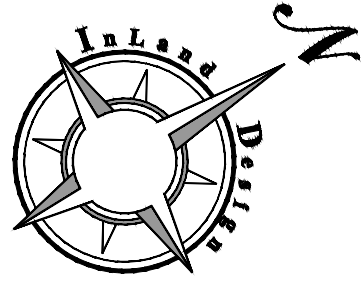
GRAPHIC SCALE
 0 15 30 60 120
 (IN FEET)
 1 inch = 30'

Date: 11/18/2022
 Scale: 1" = 30'
 Drawn by: SMF
 Checked by: CAD
 Project No. **11904**

DETAILED EXISTING FEATURES & CONVEYANCE PLAN
 FOR
NEWLINVILLE VILLAGE
NEWLINVILLE RD. AND DOE RUN RD.
COATESVILLE, PA 19320
 EAST FALLOWFIELD TOWNSHIP • CHESTER COUNTY • PENNSYLVANIA

SHEET
5
OF 6

N:\11904\11904Dwg\Sheet\Drainage\05 - DETAILED EXISTING FEATURES & CONVEYANCE PLAN NO.1.dwg



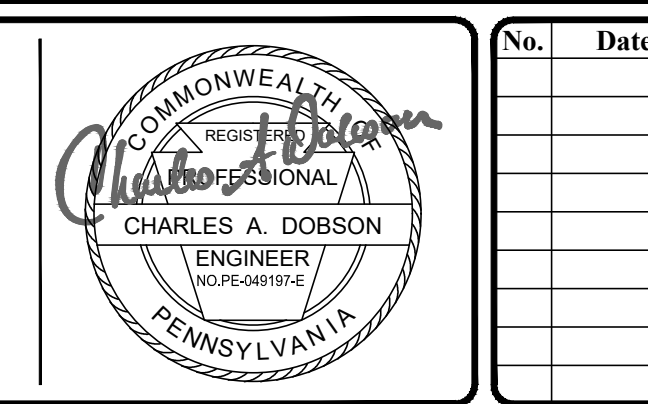
LEGEND

- ADJOINING PROPERTY LINE
- EXISTING 2' CONTOUR W/ ELEVATION
- EXISTING 10' CONTOUR W/ ELEVATION
- EXISTING CONCRETE
- EXISTING UTILITY POLE
- EXISTING WATER VALVE
- EXISTING STORM STRUCTURES & PIPE
- SAN
- EXISTING SANITARY STRUCTURES & PIPE
- EXISTING CURB LINE
- EXISTING ROAD / PAVING
- EXISTING DRIVEWAY
- EXISTING SANITARY FORCE MAIN
- W --- EXISTING WATER LINE
- C --- EXISTING ELECTRIC LINE
- G --- EXISTING GAS LINE
- OH --- EXISTING TELEPHONE LINE
- NEWLINVILLE VILLAGE BOUNDARY
- MUNICIPAL BOUNDARY

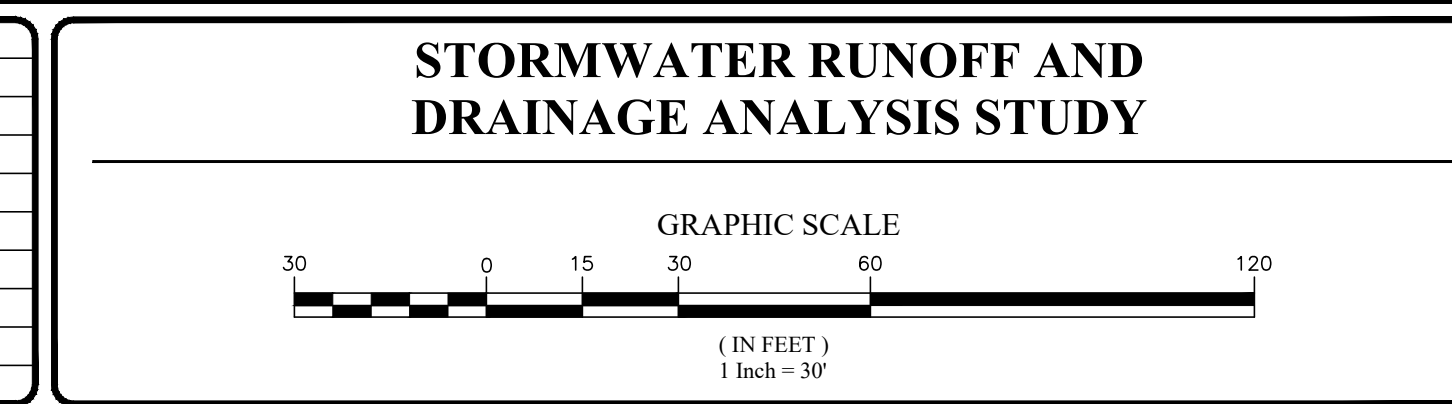
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Pennsylvania One Call System
 PA, act 172 of 1986 requires
 three working days notice
 Spatial Numbers
20222002945 & 20222002946
 PENNSYLVANIA ACT 187 REQUIREMENTS:
 Inland Design, LLC, certifies that the information provided in this plan was prepared by a duly licensed professional engineer or architect in accordance with the provisions of the act. The contractor shall verify the location and elevation of all underground utilities and structures before the start of work.

INLAND DESIGN
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 16 Hayti Blvd. West Chester, PA 19382
 Phone: (484) 947-2928 Fax: (484) 947-2946
 Info@InlandDesign.net



No.	Date:	Description:



Date: 11/18/2022
 Scale: 1" = 30'
 Drawn by: SMF
 Checked by: CAD
 Project No: **11904**

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SHEET
6
 OF 6