NRCS Brodhead Tributaries
Canadensis, Pennsylvania
PA-463

Appendix C: Support Maps

INDEX

Layout Maps

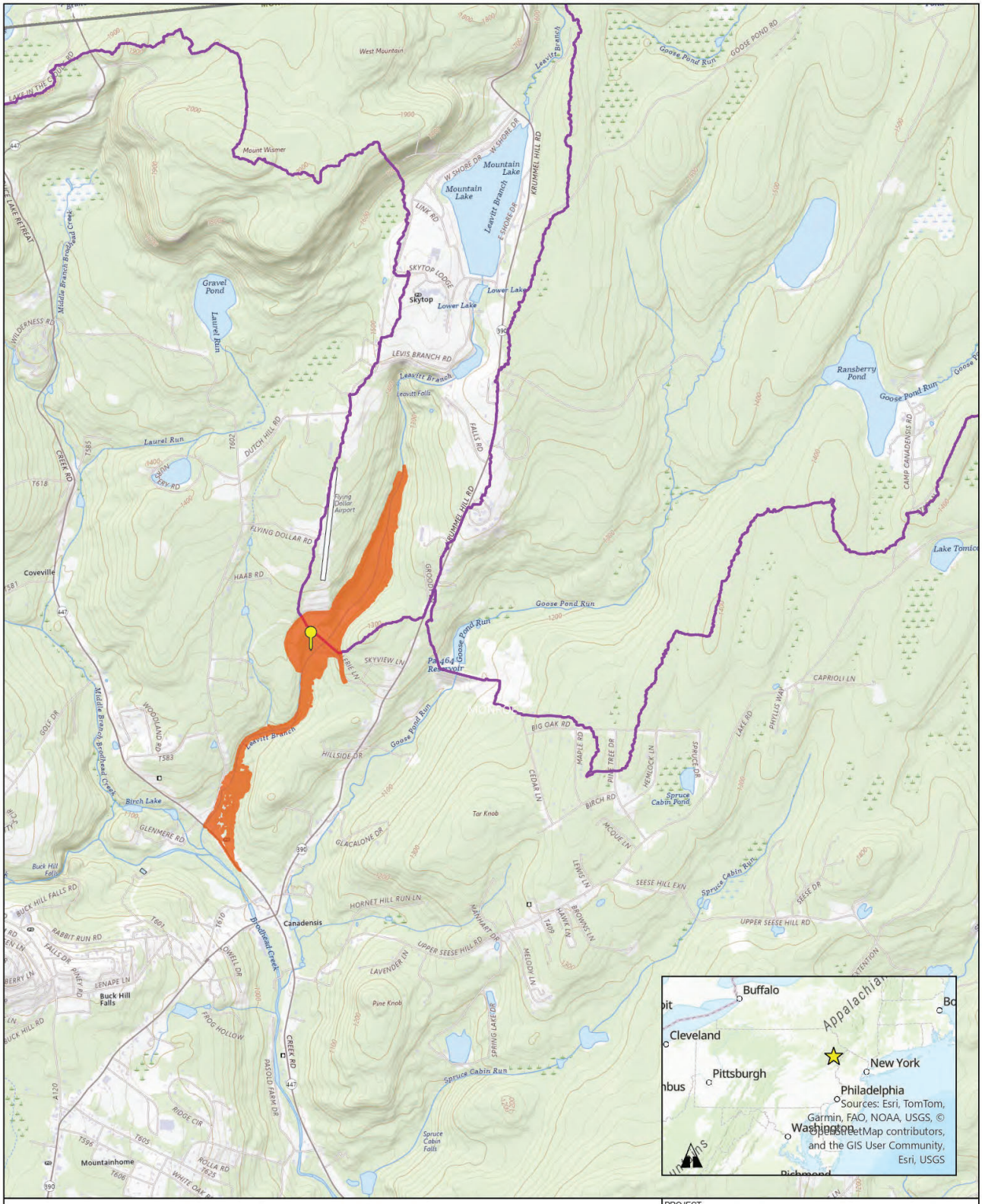
- USGS Location Map
- Aerial Location Map
- Affected Environment Map
- Existing Conditions Plan
- Preferred Alternative Plan

Flood Plain Maps

- Current Flood Insurance Rate Maps
- Breach Inundation and Study Area Map
- Floodplain Map
- Existing Conditions and Decommissioning 100-year Inundation map
- Existing Conditions and Decommissioning 500-year Inundation map
- Existing Conditions and Decommissioning FBH Inundation map
- No-Action Inundation Map
- Proposed Conditions Inundation Map
- 50-year Inundation Disclosure Map

Support Maps

- Soils
- Landcover
- Topography
- Slopes
- Wetlands and Waterways
- Required Easements
- Area of Potential Effect (APE) Location Map



USGS Location

- Dam
- Study Area: PA-463
- Project Watershed
- Town Boundary

0 1,000 2,000 3,000 Feet

Data Sources: Esri, NASA, NGA, USGS, FEMA, Esri Community Maps Contributors, data.pa.gov, New Jersey Office of GIS, Esri, TomTom, Garmin, SafeGraph, GeoTechnologies, Inc., METI/NASA, USGS, EPA, NPS, US Census Bureau, USDA, USFWS (Basemap); USGS National Hydrography Dataset, accessed 12/06/2022; PA DOT (Town Boundaries, 2020, accessed 11/20/2020).

PROJECT

Brodhead Tributaries Watershed Plan Environmental Assessment

PROJECT LOCATION

Brodhead Tributaries Watershed
Monroe County,
Pennsylvania

DATE

February 2025

NRCS Natural Resources Conservation Service

DDK Engineering-JV



Aerial

- Dam
- Study Area: PA-463
- Project Watershed
- Town Boundary
- Stream

0 510 1,020 1,530 Feet

Data Sources: Esri, NASA, NGA, USGS, FEMA, Esri Community Maps Contributors, data.pa.gov, New Jersey Office of GIS, Esri, TomTom, Garmin, SafeGraph, GeoTechnologies, Inc., METI/NASA, USGS, EPA, NPS, US Census Bureau, USDA, USFWS (Basemap); USGS National Hydrography Dataset, accessed 12/06/2022; PA DOT (Town Boundaries, 2020, accessed 11/20/2020).

PROJECT

Brodhead Tributaries Watershed Plan Environmental Assessment

PROJECT LOCATION

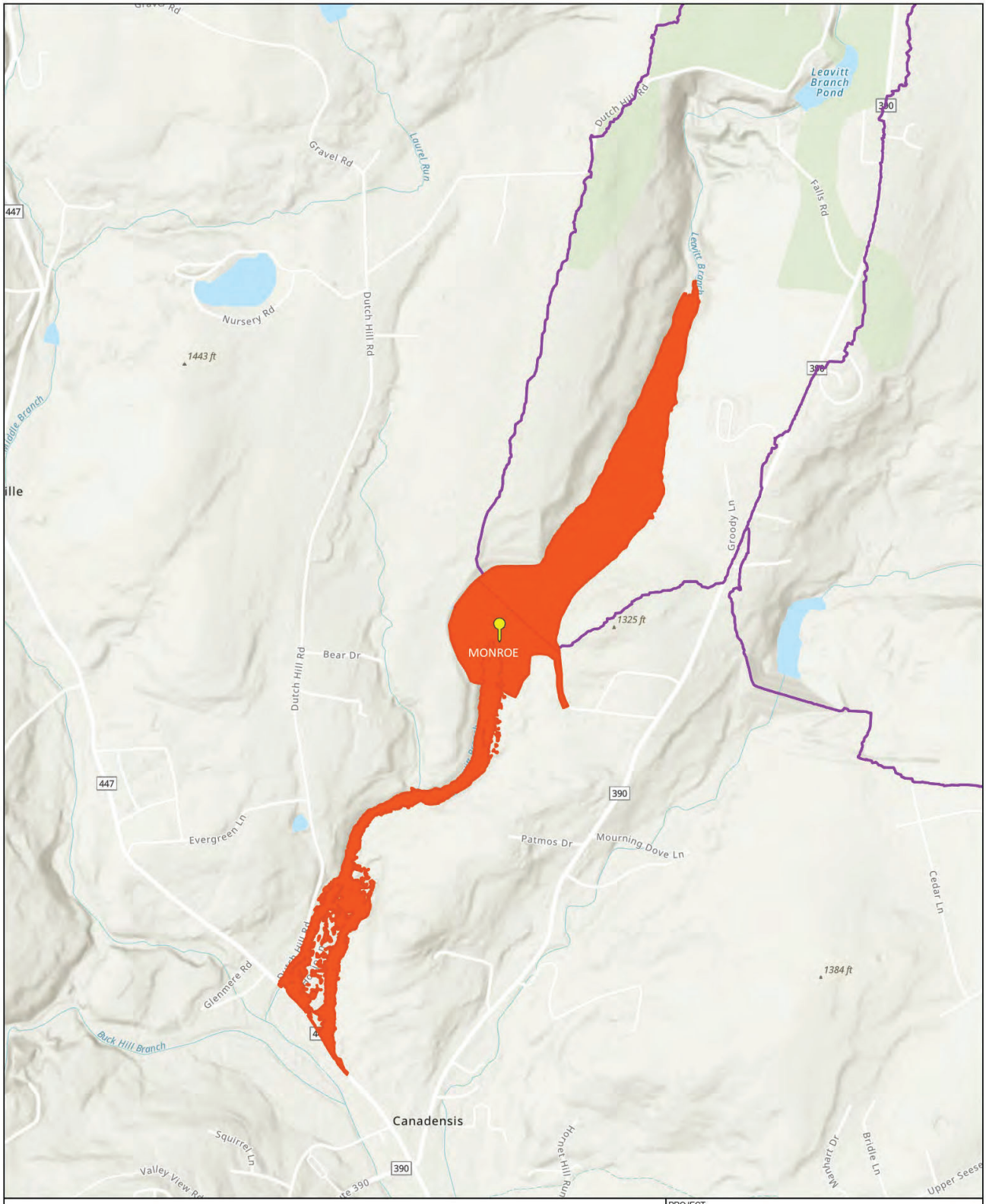
Brodhead Tributaries Watershed
Monroe County,
Pennsylvania

DATE

February 2025

NRCS Natural Resources Conservation Service

DDK Engineering-JV



Affected Environment

0 690 1,380 2,070 Feet

- Dam
- Study Area: PA-463
- Project Watershed
- Town Boundary

Data Sources: Esri, NASA, NGA, USGS, FEMA, Esri Community Maps Contributors, data.pa.gov, New Jersey Office of GIS, Esri, TomTom, Garmin, SafeGraph, GeoTechnologies, Inc., METI/NASA, USGS, EPA, NPS, US Census Bureau, USDA, USFWS (Basemap); USGS National Hydrography Dataset, accessed 12/06/2022; PA DOT (Town Boundaries, 2020, accessed 11/20/2020).

PROJECT

Brodhead Tributaries Watershed Plan Environmental Assessment

PROJECT LOCATION

Brodhead Tributaries Watershed
Monroe County,
Pennsylvania

DATE

February 2025

NRCS Natural Resources Conservation Service

DDK Engineering-JV

R:\2017\172719-33 - Brodhead Tributaries\Drawings\Preliminary Design Drawings\Leavitt - Existing Conditions.dwg
Plotted By: MJD, Plot Date: 12/10/2025 11:52 AM

USDA
United States Department of Agriculture
Natural Resources Conservation Service
USDA is an equal opportunity provider, employer, and lender.

Project No. 172719-33
Drawing No. 1
Sheet 1 of 1

DDK Engineering-JV

BRODHEAD TRIBUTARIES FLOOD PROTECTION PROJECT
LEAVITT BRANCH DAM & GOOSE POND DAM
MONROE COUNTY, PENNSYLVANIA
LEAVITT BRANCH DAM
EXISTING CONDITIONS

		Date
Designed MJD		12/2025
Drawn MJD		12/2025
Checked		
Approved		

R:\2017\172719-33 - Brodhead Tributaries\Drawings\Preliminary Spillway Alternatives\Leavitt - Proposed Auxiliary Spillway - Alt 12 Labyrinth DS - Stilling Basin.dwg
Plotted By: MJD, Plot Date: 8/14/2024 10:30 AM

Project No.	172719-33
Drawing No.	37
Sheet	1 of 4

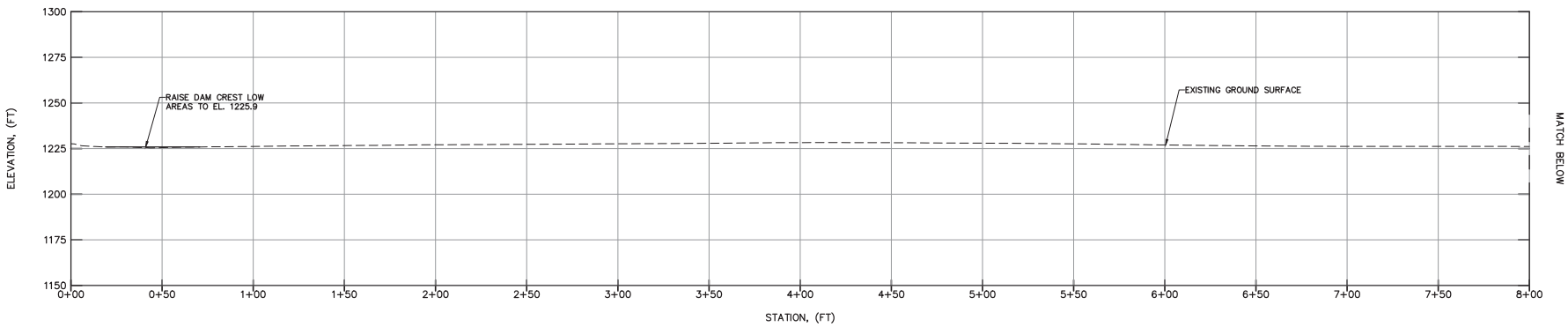
USDA
United States Department of Agriculture
Natural Resources Conservation Service
USDA is an equal opportunity provider, employer, and lender.

DDK Engineering-JV

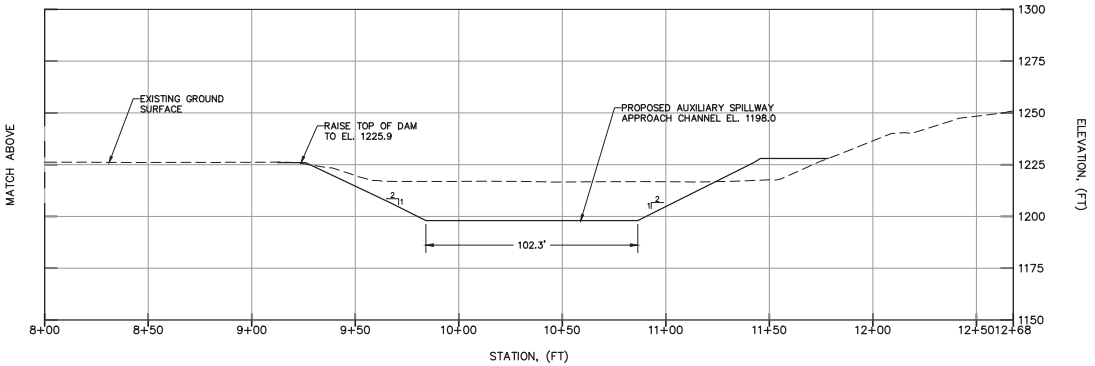
BRODHEAD TRIBUTARIES FLOOD PROTECTION PROJECT
LEAVITT BRANCH DAM & GOOSE POND DAM
MONROE COUNTY, PENNSYLVANIA
LEAVITT BRANCH DAM
PREFERRED DESIGN OPTION 12

Designed	MJD	08/2024
Drawn	MJD	08/2024
Checked		
Approved		

Date



SECTION A–A (STA. 0+00 TO 8+00)



SECTION A–A (STA 8+00 TO 12+68)

PRELIMINARY, NOT FOR CONSTRUCTION

SCALE
30 0 30 60 FEET

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Plotted By: MJD, Plot Date: 8/14/2024 10:30 AM

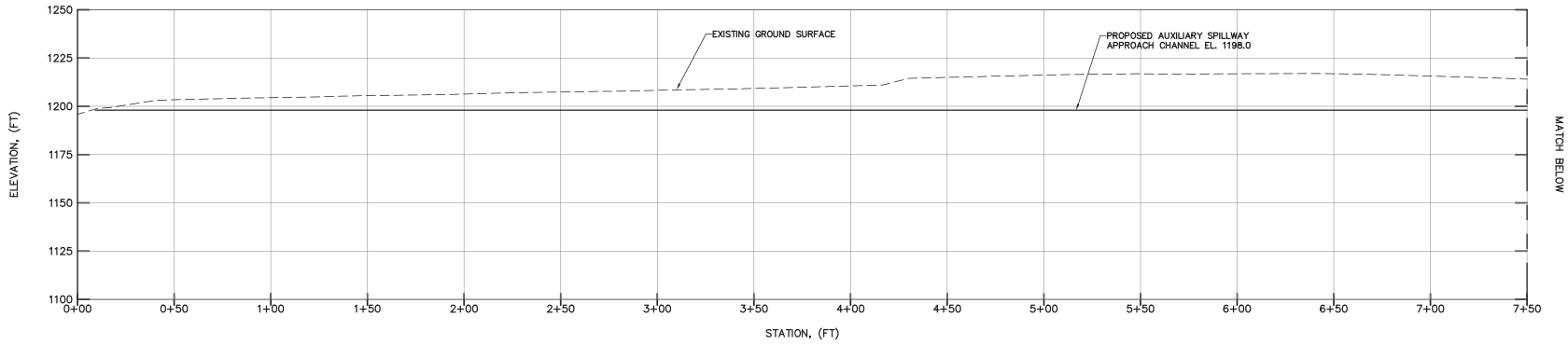
Designed MWS Date 08/2024
Drawn MWS 08/2024
Checked
Approved

BRODHEAD TRIBUTARIES FLOOD PROTECTION PROJECT
LEAVITT BRANCH DAM & GOOSE POND DAM
MONROE COUNTY, PENNSYLVANIA
LEAVITT BRANCH DAM
DESIGN OPTION 12- SECTIONS (SHEET 1)

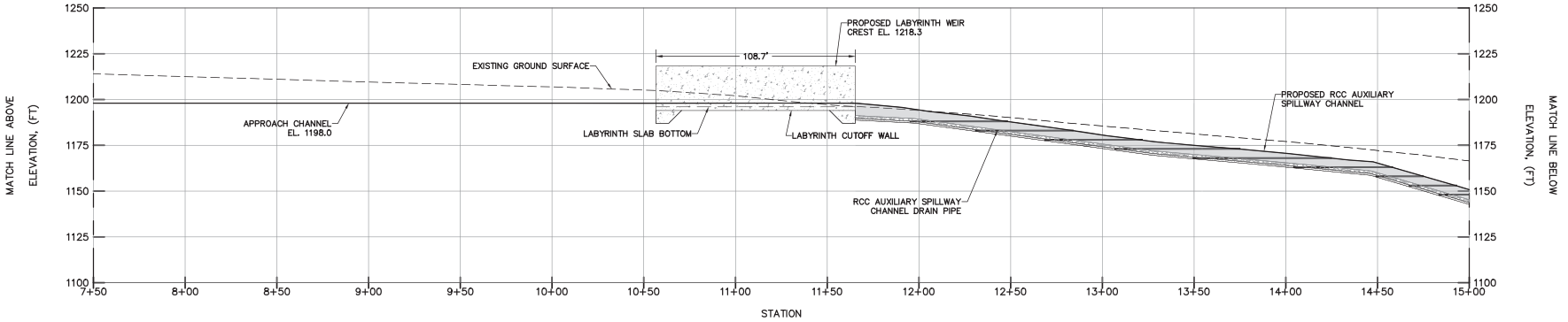
DDK Engineering-JV

United States Department of Agriculture
Natural Resources Conservation Service

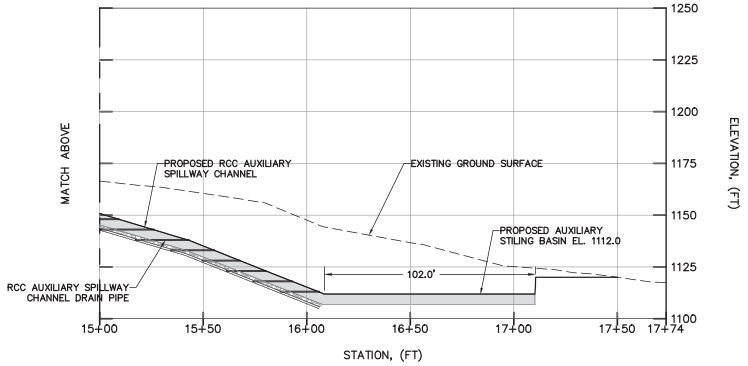
Project No. 172719-33
Drawing No. 38
Sheet 2 of 4



SECTION B–B (STA 0+00 TO 7+50)



SECTION B–B (STA 7+50 TO 15+00)



SECTION B–B (STA 15+00 TO 17+74)

PRELIMINARY, NOT FOR CONSTRUCTION

SCALE
30 0 30 60 FEET

BRODHEAD TRIBUTARIES FLOOD PROTECTION PROJECT
LEAVITT BRANCH DAM & GOOSE POND DAM
MONROE COUNTY, PENNSYLVANIA
LEAVITT BRANCH DAM
DESIGN OPTION12- SECTIONS (SHEET 2)

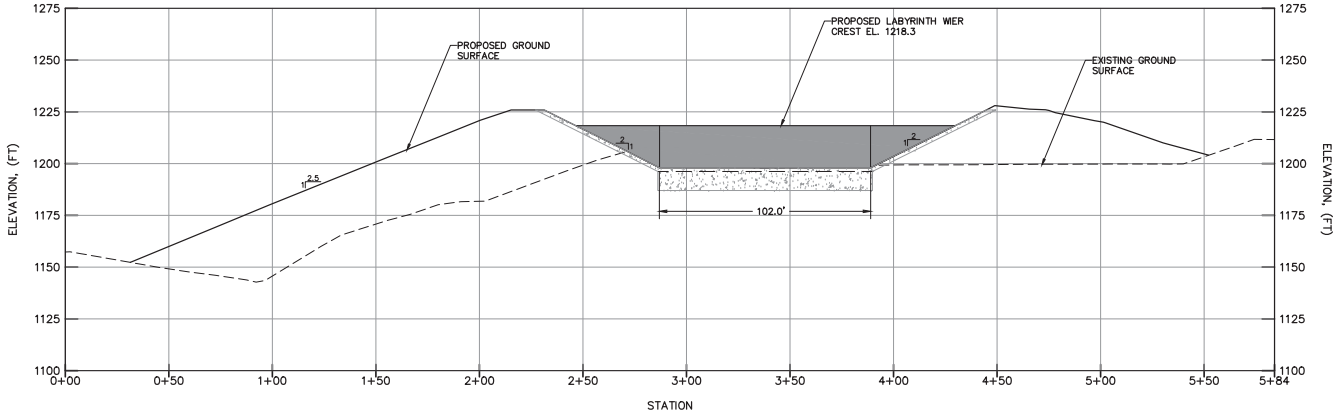
Date
Designed MWS 09/2024
Drawn MWS 09/2024
Checked
Approved

DDK Engineering-JV

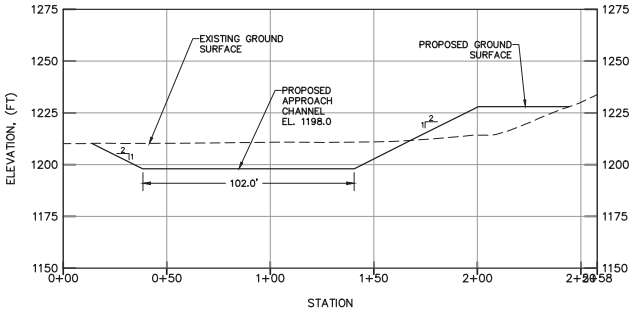
USDA United States Department of Agriculture
Natural Resources Conservation Service

Project No. 172719-33
Drawing No. 39
Sheet 3 of 4

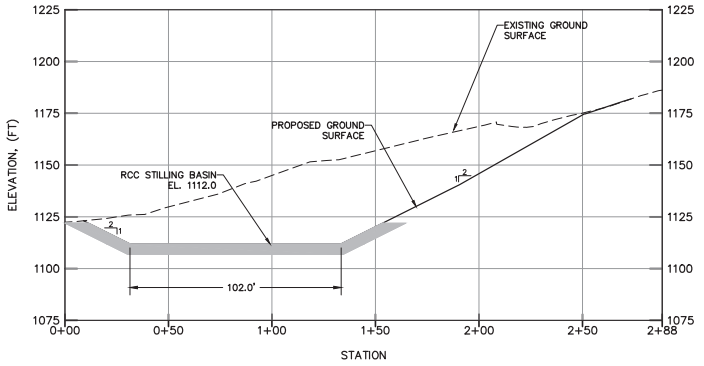
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Plotted By: MJD, Plot Date: 8/14/2024 10:31 AM



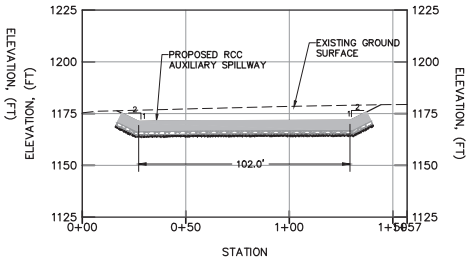
SECTION D–D



SECTION C–C



SECTION F–F



SECTION E–E

PRELIMINARY, NOT FOR CONSTRUCTION

SCALE
30 0 30 60 FEET

Date
Designed MWS 08/2024
Drawn MWS 08/2024
Checked
Approved

BRODHEAD TRIBUTARIES FLOOD PROTECTION PROJECT
LEAVITT BRANCH DAM & GOOSE POND DAM
MONROE COUNTY, PENNSYLVANIA
LEAVITT BRANCH DAM
DESIGN OPTION 12- SECTIONS (SHEET 3)

DDK Engineering-JV

USDA United States Department of Agriculture
Natural Resources Conservation Service

Project No.
172719-33

Drawing No.
40

Sheet 4 of 4

R:\2017\172719-33 - Brodhead Tributaries\Drawings\Preliminary Spillway Alternatives\Leavitt - Proposed Auxiliary Spillway - Alt 12 Labyrinth DS - Stilling Basin.dwg
Plotted By: MJD, Plot Date: 8/14/2024 10:31 AM

75°15'W 41°13'14.12"N



75°13'7.08"W 41°11'8.44"N

FLOOD HAZARD INFORMATION

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR DRAFT FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS
- Without Base Flood Elevation (BFE) Zone A, V, 499
- With BFE or Depth Zone AE, AO, AH, VE, AR
- Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD
- 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
- Future Conditions 1% Annual Chance Flood Hazard Zone X
- Area with Reduced Flood Risk due to Levee See Notes Zone X
- Area with Flood Risk due to Levee Zone D

OTHER AREAS
- NO SCREEN Area of Minimal Flood Hazard Zone X
- Effective LOMRs
- Area of Undetermined Flood Hazard Zone D

GENERAL STRUCTURES
- Channel, Culvert, or Storm Sewer
- Levee, Dike, or Floodwall

OTHER FEATURES
- 20.2 Cross Sections with 1% Annual Chance
- 17.5 Water Surface Elevation
- 8 Coastal Transect
- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature
- 513 Base Flood Elevation Line (BFE)
- Limit of Study
- Jurisdiction Boundary

LINK><a> </CLR>for official maps and additional

NOTES TO USERS

For information and questions about this Flood Insurance Rate Map (FIRM), available products associated with this FIRM, including historic versions, the current map date for each FIRM panel, how to order products, or the National Flood Insurance Program (NFIP) in general, please call the FEMA Map Information eXchange at 1-877-FEMA-MAP (1-877-336-2627) or visit the FEMA Flood Map Service Center website at https://msc.fema.gov. Available products may include previously issued Letters of Map Change, a Flood Insurance Study Report, and/or digital versions of this map. Many of these products can be ordered or obtained directly from the website.

Communities annexing land on adjacent FIRM panels must obtain a current copy of the adjacent panel as well as the current FIRM Index. These may be ordered directly from the Flood Map Service Center at the number listed above.

For community and countywide map dates, refer to the Flood Insurance Study Report for this jurisdiction.

To determine if flood insurance is available in this community, contact your Insurance agent or call the National Flood Insurance Program at 1-800-638-6620.

Basemap information shown on this FIRM was provided in digital format by USDA, Farm Service Agency (FSA). This information was derived from NAIP, dated April 11, 2018.

This map was exported from FEMA's National Flood Hazard Layer (NFHL) on 12/3/2025 5:02 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time. For additional information, please see the Flood Hazard Mapping Updates Overview Fact Sheet at https://www.fema.gov/media-library/assets/documents/118418

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards. This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date.

SCALE

Map Projection:
GCS, Geodetic Reference System 1980;
Vertical Datum: NAVD88
For information about the specific vertical datum for elevation features, datum conversions, or vertical monuments used to create this map, please see the Flood Insurance Study (FIS) Report for your community at https://msc.fema.gov

1 inch = 500 feet 1:6,000

0 250 500 1,000 1,500 2,000 Feet

N

0 50 100 200 300 400 Meters

FEMA National Flood Insurance Program

NATIONAL FLOOD INSURANCE PROGRAM

FLOOD INSURANCE RATE MAP

PANEL 128 OF 535

Panel Contains:

COMMUNITY	NUMBER	PANEL
TOWNSHIP OF BARRETT	421884	0128

MAP NUMBER
42089C0128E
EFFECTIVE DATE
May 02, 2013

75°16'52.94"W 41°13'14.12"N



75°14'59.58"W 41°11'8.44"N

FLOOD HAZARD INFORMATION

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR DRAFT FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS
- Without Base Flood Elevation (BFE) *Zone A, V, A99*
- With BFE or Depth *Zone AE, AO, AH, VE, AR*
- Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD
- 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile *Zone X*
- Future Conditions 1% Annual Chance Flood Hazard *Zone X*
- Area with Reduced Flood Risk due to Levee See Notes *Zone X*
- Area with Flood Risk due to Levee *Zone D*
- NO SCREEN Area of Minimal Flood Hazard *Zone X*
- Effective LOMRs

OTHER AREAS
- Area of Undetermined Flood Hazard *Zone D*

GENERAL STRUCTURES
- Channel, Culvert, or Storm Sewer
- Levee, Dike, or Floodwall

OTHER FEATURES
- 20.2 Cross Sections with 1% Annual Chance
- 17.5 Water Surface Elevation
- Coastal Transect
- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature
- Base Flood Elevation Line (BFE)
- Limit of Study
- Jurisdiction Boundary

LINK><a> </CLR>for official maps and additional

NOTES TO USERS

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This map was exported from FEMA's National Flood Hazard Layer (NFHL) on **12/3/2025 5:04 PM** and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time. For additional information, please see the Flood Hazard Mapping Updates Overview Fact Sheet at https://www.fema.gov/media-library/assets/documents/118418

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards. This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date.

SCALE

Map Projection:
GCS, Geodetic Reference System 1980;
Vertical Datum: NAVD88
For information about the specific vertical datum for elevation features, datum conversions, or vertical monuments used to create this map, please see the Flood Insurance Study (FIS) Report for your community at https://msc.fema.gov

1 inch = 500 feet 1:6,000

0 250 500 1,000 1,500 2,000 Feet

N

0 50 100 200 300 400 Meters

National Flood Insurance Program

NATIONAL FLOOD INSURANCE PROGRAM

FLOOD INSURANCE RATE MAP

PANEL **109** OF **535**

Panel Contains:

COMMUNITY	NUMBER	PANEL
TOWNSHIP OF BARRETT	421884	0109

MAP NUMBER
42089C0109E
EFFECTIVE DATE
May 02, 2013

NOTES TO USERS

This map is for use in administering the National Flood Insurance Program. It does not necessarily identify all areas subject to flooding, particularly from local drainage sources of small size. The **community map repository** should be consulted for possible updated or additional flood hazard information.

To obtain more detailed information in areas where **Base Flood Elevations** (BFEs) and/or **floodways** have been determined, users are encouraged to consult the Flood Profiles and Floodway Data and/or Summary of Stillwater Elevations tables contained within the Flood Insurance Study (FIS) report that accompanies this FIRM. Users should be aware that BFEs shown on the FIRM represent rounded whole-foot elevations. These BFEs are intended for flood insurance rating purposes only and should not be used as the sole source of flood elevation information. Accordingly, flood elevation data presented in the FIS report should be utilized in conjunction with the FIRM for purposes of construction and/or floodplain management.

Coastal Base Flood Elevations shown on this map apply only landward of 0.0' North American Vertical Datum of 1988 (NAVD 88). Users of this FIRM should be aware that coastal flood elevations are also provided in the Summary of Stillwater Elevations tables in the Flood Insurance Study report for this jurisdiction. Elevations shown in the Summary of Stillwater Elevations tables should be used for construction and/or floodplain management purposes when they are higher than the elevations shown on this FIRM.

Boundaries of the **floodways** were computed at cross sections and interpolated between cross sections. The floodways were based on hydraulic considerations with regard to requirements of the National Flood Insurance Program. Floodway widths and other pertinent floodway data are provided in the Flood Insurance Study report for this jurisdiction.

Certain areas not in Special Flood Hazard Areas may be protected by **flood control structures**. Refer to Section 2.4 "Flood Protection Measures" of the Flood Insurance Study report for information on flood control structures for this jurisdiction.

The **projection** used in the preparation of this map was Pennsylvania State Plane north zone (FIPSZONE 3701). The **horizontal datum** was NAD 83, GRS80 spheroid. Differences in datum, spheroid, projection or State Plane zones used in the production of **FIRMs** for adjacent jurisdictions may result in slight positional differences in map features across jurisdiction boundaries. These differences do not affect the accuracy of this FIRM.

Flood elevations on this map are referenced to the North American Vertical Datum of 1988. These flood elevations must be compared to structure and ground elevations referenced to the same **vertical datum**. For information regarding conversion between the National Geodetic Vertical Datum of 1929 and the North American Vertical Datum of 1988, visit the National Geodetic Survey website at http://www.ngs.noaa.gov or contact the National Geodetic Survey at the following address:

NGS Information Services
NOAA, N/NGS12
National Geodetic Survey
SSMC-3, #9202
1315 East-West Highway
Silver Spring, Maryland 20910-3282
(301) 713-3242

To obtain current elevation, description, and/or location information for **bench marks** shown on this map, please contact the Information Services Branch of the National Geodetic Survey at **(301) 713-3242**, or visit its website at http://www.ngs.noaa.gov.

Base map information shown on this FIRM was obtained from the Monroe County Planning Commission, including transportation, hydrography, and political boundaries. These files were based on edited files which were scanned and digitized; and further rectified from orthophotography flown in 2003.

This map reflects more detailed and up-to-date **stream channel configurations** than those shown on the previous FIRM for this jurisdiction. The floodplains and floodways that were transferred from the previous FIRM may have been adjusted to conform to these new stream channel configurations. As a result, the Flood Profiles and Floodway Data tables in the Flood Insurance Study Report (which contains authoritative hydraulic data) may reflect stream channel distances that differ from what is shown on this map.

Corporate limits shown on this map are based on the best data available at the time of publication. Because changes due to annexations or de-annexations may have occurred after this map was published, map users should contact appropriate community officials to verify current corporate limit locations.

Please refer to the separately printed **Map Index** for an overview map of the county showing the layout of map panels; community map repository addresses; and a listing of Communities table containing National Flood Insurance Program dates for each community as well as a listing of the panels on which each community is located.

For information on available products associated with this FIRM visit the **Map Service Center (MSC)** website at http://msc.fema.gov. Available products may include previously issued Letters of Map Change, a Flood Insurance Study Report, and/or digital versions of this map. Many of these products can be ordered or obtained directly from the MSC website.

If you have **questions about this map**, how to order products or the National Flood Insurance Program in general, please call the FEMA Map Information eXchange (FMIX) at **1-877-FEMA-MAP** (1-877-336-2627) or visit the FEMA website at http://www.fema.gov/business/nfip.



LEGEND

SPECIAL FLOOD HAZARD AREAS SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD

The 1% annual flood (100-year flood), also known as the base flood, is the flood that has a 1% chance of being equaled or exceeded in any given year. The Special Flood Hazard Area is the area subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard include Zones A, AE, AH, AO, AR, A99, V, and VE. The Base Flood Elevation is the water-surface elevation of the 1% annual chance flood.

ZONE A — No Base Flood Elevations determined.
ZONE AE — Base Flood Elevations determined.
ZONE AH — Flood depths of 1 to 3 feet (usually areas of ponding); Base Flood Elevations determined.
ZONE AO — Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined. For areas of alluvial fan flooding, velocities also determined.
ZONE AR — Special Flood Hazard Area formerly protected from the 1% annual chance flood by a flood control system that was subsequently decertified. Zone AR indicates that the former flood control system is being restored to provide protection from the 1% annual chance or greater flood.
ZONE A99 — Area to be protected from 1% annual chance flood by a Federal flood protection system under construction; no Base Flood Elevations determined.
ZONE V — Coastal flood zone with velocity hazard (wave action); no Base Flood Elevations determined.
ZONE VE — Coastal flood zone with velocity hazard (wave action); Base Flood Elevations determined.

FLOODWAY AREAS IN ZONE AE

The floodway is the channel of a stream plus any adjacent floodplain areas that must be kept free of encroachment so that the 1% annual chance flood can be carried without substantial increases in flood heights.

OTHER FLOOD AREAS
ZONE X — Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 1% annual chance flood.

OTHER AREAS
ZONE X — Areas determined to be outside the 0.2% annual chance floodplain.
ZONE D — Areas in which flood hazards are undetermined, but possible.

COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS
OTHERWISE PROTECTED AREAS (OPAs)

CBRS areas and OPAs are normally located within or adjacent to Special Flood Hazard Areas.

1% annual chance floodplain boundary
0.2% annual chance floodplain boundary
Floodway boundary
Zone D boundary
CBRS and OPA boundary
Boundary dividing Special Flood Hazard Area Zones and boundary dividing Special Flood Hazard Areas of different Base Flood Elevations, flood depths or flood velocities.
Limit of Moderate Wave Action
513 — Base Flood Elevation line and value; elevation in feet*
(EL 987) — Base Flood Elevation value where uniform within zone; elevation in feet*

* Referenced to the North American Vertical Datum of 1988

Cross section line
Transect line
Culvert, Flume, Penstock or Aqueduct
Road or Railroad Bridge
Footbridge
97°07'45", 32°22'30" — Geographic coordinates referenced to the North American Datum of 1983 (NAD 83), Western Hemisphere
1000-meter Universal Transverse Mercator grid values, zone 18
600000 FT — 5000-foot grid values: Pennsylvania State Plane coordinate system, North zone (FIPSZONE 3701), Lambert Conformal Conic projection
DX5510 — Bench mark (see explanation in Notes to Users section of this FIRM panel)
M1.5 — River Mile

MAP REPOSITORY
Refer to listing of Map Repositories on Map Index

EFFECTIVE DATE OF COUNTYWIDE FLOOD INSURANCE RATE MAP
May 2, 2013

EFFECTIVE DATE(S) OF REVISION(S) TO THIS PANEL

For community map revision history prior to countywide mapping, refer to the Community Map History table located in the Flood Insurance Study report for this jurisdiction.

To determine if flood insurance is available in this community, contact your Insurance agent or call the National Flood Insurance Program at 1-800-638-6620.

MAP SCALE 1" = 500'
250 0 500 1000 FEET
150 0 150 300 METERS

NATIONAL FLOOD INSURANCE PROGRAM

PANEL 0128E

FIRM

FLOOD INSURANCE RATE MAP

MONROE COUNTY, PENNSYLVANIA
(ALL JURISDICTIONS)

PANEL 128 OF 535
(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS

COMMUNITY	NUMBER	PANEL	SUFFIX
BARRETT, TOWNSHIP OF	421884	0128	E

Notice to User: The **Map Number** shown below should be used when placing map orders; the **Community Number** shown above should be used on insurance applications for the subject community.

MAP NUMBER
42089C0128E

EFFECTIVE DATE
MAY 2, 2013

Federal Emergency Management Agency

NOTES TO USERS

...p is for use in administering the National Flood Insurance Program. It ...t necessarily identify all areas subject to flooding, particularly from local ... sources of small size. The **community map repository** should be ...d for possible updated or additional flood hazard information.

...n more detailed information in areas where **Base Flood Elevations** ...and/or **floodways** have been determined, users are encouraged to consult ...d Profiles and Floodway Data and/or Summary of Stillwater Elevations ...ontained within the Flood Insurance Study (FIS) report that accompanies ...M. Users should be aware that BFEs shown on the FIRM represent ...whole-foot elevations. These BFEs are intended for flood insurance ...urposes only and should not be used as the sole source of flood ...n information. Accordingly, flood elevation data presented in the FIS ...should be utilized in conjunction with the FIRM for purposes of ...tion and/or floodplain management.

...**Base Flood Elevations** shown on this map apply only landward of ...h American Vertical Datum of 1988 (NAVD 88). Users of this FIRM should ...e that coastal flood elevations are also provided in the Summary of ...r Elevations tables in the Flood Insurance Study report for this jurisdiction. ...ns shown in the Summary of Stillwater Elevations tables should be used for ...tion and/or floodplain management purposes when they are higher than ...tions shown on this FIRM.

...es of the **floodways** were computed at cross sections and interpolated ... cross sections. The floodways were based on hydraulic considerations ...ard to requirements of the National Flood Insurance Program. Floodway ...nd other pertinent floodway data are provided in the Flood Insurance ...port for this jurisdiction.

...areas not in Special Flood Hazard Areas may be protected by **flood ... structures**. Refer to Section 2.4 "Flood Protection Measures" of the ...surance Study report for information on flood control structures for this ...on.

...**jection** used in the preparation of this map was Pennsylvania State Plane ...ne (FIPSZONE 3701). The **horizontal datum** was NAD 83, GRS80 ... Differences in datum, spheroid, projection or State Plane zones used in ...uction of FIRMs for adjacent jurisdictions may result in slight positional ...es in map features across jurisdiction boundaries. These differences do ...t the accuracy of this FIRM.

...evations on this map are referenced to the North American Vertical Datum ... These flood elevations must be compared to structure and ground ...s referenced to the same **vertical datum**. For information regarding ...on between the National Geodetic Vertical Datum of 1929 and the ...merican Vertical Datum of 1988, visit the National Geodetic Survey ...at http://www.ngs.noaa.gov or contact the National Geodetic Survey at ...ving address:

...rmation Services
...NGS12
... Geodetic Survey
... #9202
...st-West Highway
...ring, Maryland 20910-3282
...3-3242

...n current elevation, description, and/or location information for **bench** ...shown on this map, please contact the Information Services Branch ...National Geodetic Survey at **(301) 713-3242**, or visit its website at ...w.ngs.noaa.gov.

...**p** information shown on this FIRM was obtained from the Monroe County ... Commission, including transportation, hydrography, and political ...es. These files were based on edited files which were scanned and ..., and further rectified from orthophotography flown in 2003.

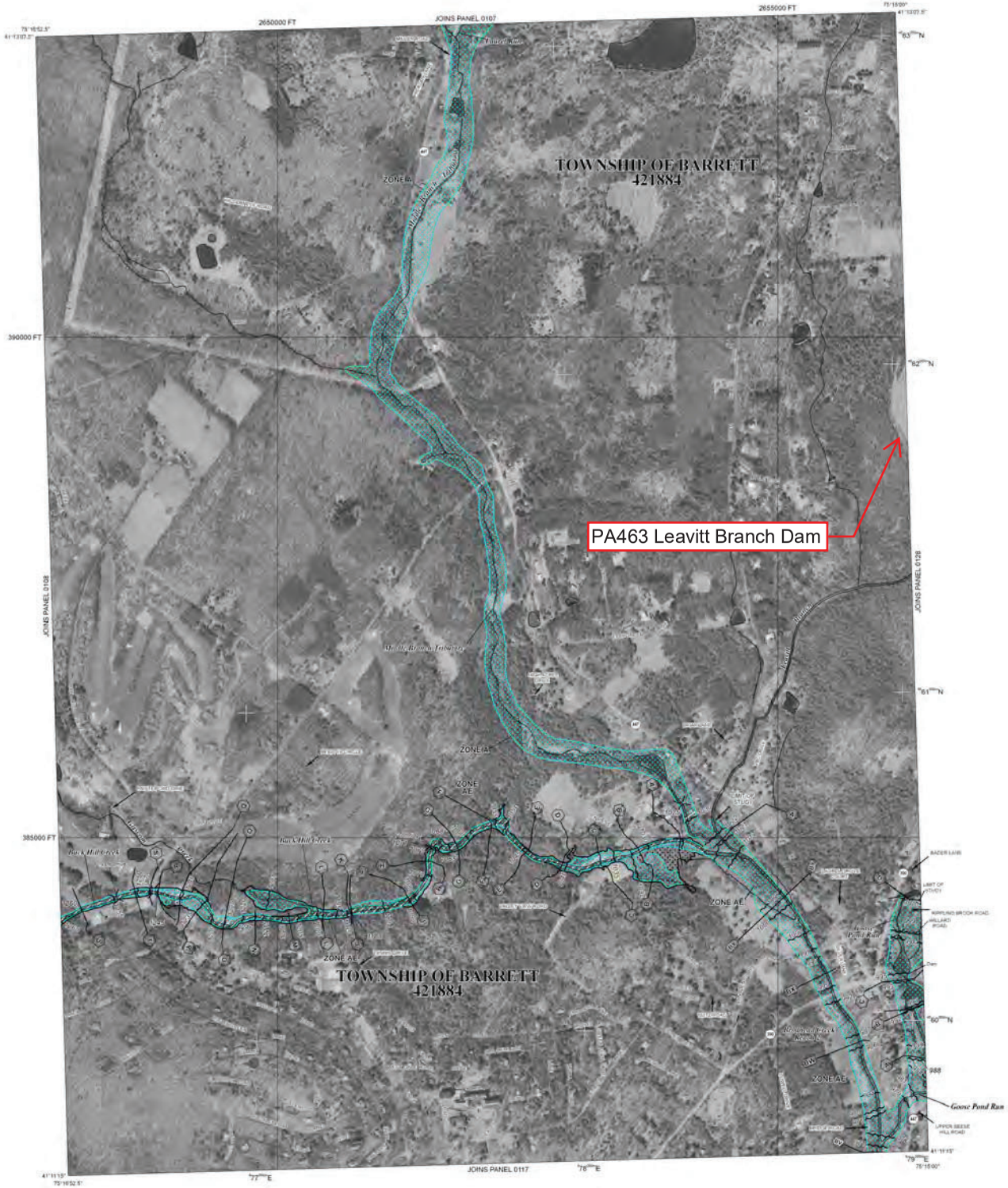
...p reflects more detailed and up-to-date **stream channel configurations** ...se shown on the previous FIRM for this jurisdiction. The floodplains and ...s that were transferred from the previous FIRM may have been adjusted ...m to these new stream channel configurations. As a result, the Flood ...and Floodway Data tables in the Flood Insurance Study Report (which ... authoritative hydraulic data) may reflect stream channel distances that ...m what is shown on this map.

...**te limits** shown on this map are based on the best data available at the ...ublication. Because changes due to annexations or de-annexations may ...urred after this map was published, map users should contact appropriate ...ty officials to verify current corporate limit locations.

...efer to the separately printed **Map Index** for an overview map of the ...showing the layout of map panels; community map repository addresses; ...sting of Communities table containing National Flood Insurance Program ...r each community as well as a listing of the panels on which each ...ty is located.

...rmation on available products associated with this FIRM visit the **Map ... Center (MSC)** website at http://msc.fema.gov. Available products may ...previously issued Letters of Map Change, a Flood Insurance Study Report, ...digital versions of this map. Many of these products can be ordered or ... directly from the MSC website.

...ave **questions about this map**, how to order products or the National ...surance Program in general, please call the FEMA Map Information ...e (FMIX) at **1-877-FEMA-MAP** (1-877-336-2627) or visit the FEMA ...at http://www.fema.gov/business/nfip.



LEGEND

SPECIAL FLOOD HAZARD AREAS SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD

The 1% annual flood (100-year flood), also known as the base flood, is the flood that has a 1% chance of being equalled or exceeded in any given year. The Special Flood Hazard Area is the area subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard include Zones A, AE, AH, AO, AR, A99, V, and VE. The Base Flood Elevation is the water-surface elevation of the 1% annual chance flood.

ZONE A — No Base Flood Elevations determined.

ZONE AE — Base Flood Elevations determined.

ZONE AH — Flood depths of 1 to 3 Feet (usually areas of ponding); Base Flood Elevations determined.

ZONE AO — Flood depths of 1 to 3 Feet (usually sheet flow on sloping terrain); average depths determined. For areas of alluvial fan flooding, velocities also determined.

ZONE AR — Special Flood Hazard Area Formerly protected from the 1% annual chance flood by a flood control system that was subsequently decertified. Zone AR indicates that the former flood control system is being restored to provide protection from the 1% annual chance or greater flood.

ZONE A99 — Area to be protected from 1% annual chance flood by a Federal flood protection system under construction; no Base Flood Elevations determined.

ZONE V — Coastal flood zone with velocity hazard (wave action); no Base Flood Elevations determined.

ZONE VE — Coastal flood zone with velocity hazard (wave action); Base Flood Elevations determined.

FLOODWAY AREAS IN ZONE AE

The floodway is the channel of a stream plus any adjacent floodplain areas that must be kept free of encroachment so that the 1% annual chance flood can be carried without substantial increases in flood heights.

OTHER FLOOD AREAS

ZONE X — Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 1% annual chance flood.

OTHER AREAS

ZONE X — Areas determined to be outside the 0.2% annual chance floodplain.

ZONE D — Areas in which flood hazards are undetermined, but possible.

COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS

OTHERWISE PROTECTED AREAS (OPAs)

CBRS areas and OPAs are normally located within or adjacent to Special Flood Hazard Areas.

1% annual chance floodplain boundary

0.2% annual chance floodplain boundary

Floodway boundary

Zone D boundary

CBRS and OPA boundary

Boundary dividing Special Flood Hazard Area Zones and boundary dividing Special Flood Hazard Areas of different Base Flood Elevations, flood depths or flood velocities.

Limit of Moderate Wave Action

513 — Base Flood Elevation line and value; elevation in feet*

(EL 987) — Base Flood Elevation value where uniform within zone; elevation in feet*

* Referenced to the North American Vertical Datum of 1988

Cross section line

Transect line

Culvert, Flume, Penstock or Aqueduct

Road or Railroad Bridge

Footbridge

87°07'45", 32°22'30" — Geographic coordinates referenced to the North American Datum of 1983 (NAD 83), Western Hemisphere

"76°"N — 1000-meter Universal Transverse Mercator grid values, zone 18

600000 FT — 5000-foot grid values: Pennsylvania State Plane coordinate system, North zone (FIPSZONE 3701), Lambert Conformal Conic projection

DX5510 — Bench mark (see explanation in Notes to Users section of this FIRM panel)

M1.5 — River Mile

MAP REPOSITORY
Refer to listing of Map Repositories on Map Index

EFFECTIVE DATE OF COUNTYWIDE FLOOD INSURANCE RATE MAP
May 2, 2013

EFFECTIVE DATE(S) OF REVISION(S) TO THIS PANEL

For community map revision history prior to countywide mapping, refer to the Community Map History table located in the Flood Insurance Study report for this jurisdiction.

To determine if flood insurance is available in this community, contact your Insurance agent or call the National Flood Insurance Program at 1-800-638-6620.

MAP SCALE 1" = 500'

250 0 500 1000 FEET

150 0 150 300 METERS

NFIP
NATIONAL FLOOD INSURANCE PROGRAM

PANEL 0109E

FIRM

FLOOD INSURANCE RATE

MONROE COUNTY, PENNSYLVANIA
(ALL JURISDICTIONS)

PANEL 109 OF 535
(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS

COMMUNITY	NUMBER	PANEL
BARRETT, TOWNSHIP OF	421884	0109

Notice to User: The **Map Number** shown below should be used when placing map orders; the **Community Number** shown above should be used on insurance applications for the subject community.

MAP NU
42089

EFFECTIVE
MAY

Federal Emergency Management

Federal Emergency Management Agency

Washington, D.C. 20472

LETTER OF MAP AMENDMENT
DETERMINATION DOCUMENT (REMOVAL)

COMMUNITY AND MAP PANEL INFORMATION		LEGAL PROPERTY DESCRIPTION
COMMUNITY	TOWNSHIP OF BARRETT, MONROE COUNTY, PENNSYLVANIA	A portion of Lot 1, Subdivision of lands of Maureen Melograno, as shown on the Final Minor Subdivision Plan, recorded as Instrument No. 201501670, in Plat Book 87, Page 11, in the Office of the Recorder of Deeds, Monroe County, Pennsylvania The portion of property is more particularly described by the following metes and bounds:
	COMMUNITY NO.: 421884	
AFFECTED MAP PANEL	NUMBER: 42089C0109E	
	DATE: 5/2/2013	
FLOODING SOURCE: BRODHEAD CREEK REACH 2		APPROXIMATE LATITUDE & LONGITUDE OF PROPERTY:41.190251, -75.252814 SOURCE OF LAT & LONG: LOMA LOGIC DATUM: NAD 83

DETERMINATION

LOT	BLOCK/ SECTION	SUBDIVISION	STREET	OUTCOME WHAT IS REMOVED FROM THE SFHA	FLOOD ZONE	1% ANNUAL CHANCE FLOOD ELEVATION (NAVD 88)	LOWEST ADJACENT GRADE ELEVATION (NAVD 88)	LOWEST LOT ELEVATION (NAVD 88)
1	--	Lands of Maureen Melograno	1380 Route 390	Portion of Property	X (unshaded)	--	--	984.0 feet

Special Flood Hazard Area (SFHA) - The SFHA is an area that would be inundated by the flood having a 1-percent chance of being equaled or exceeded in any given year (base flood).

ADDITIONAL CONSIDERATIONS (Please refer to the appropriate section on Attachment 1 for the additional considerations listed below.)

LEGAL PROPERTY DESCRIPTION
PORTIONS REMAIN IN THE SFHA

This document provides the Federal Emergency Management Agency's determination regarding a request for a Letter of Map Amendment for the property described above. Using the information submitted and the effective National Flood Insurance Program (NFIP) map, we have determined that the described portion(s) of the property(ies) is/are not located in the SFHA, an area inundated by the flood having a 1-percent chance of being equaled or exceeded in any given year (base flood). This document amends the effective NFIP map to remove the subject property from the SFHA located on the effective NFIP map; therefore, the Federal mandatory flood insurance requirement does not apply. However, the lender has the option to continue the flood insurance requirement to protect its financial risk on the loan. A Preferred Risk Policy (PRP) is available for buildings located outside the SFHA. Information about the PRP and how one can apply is enclosed.

This determination is based on the flood data presently available. The enclosed documents provide additional information regarding this determination. If you have any questions about this document, please contact the FEMA Map Information eXchange (FMIX) toll free at (877) 336-2627 (877-FEMA MAP) or by letter addressed to the Federal Emergency Management Agency, Engineering Library, 3601 Eisenhower Ave Ste 500, Alexandria, VA 22304-6426.

Luis V. Rodriguez, P.E., Director
Engineering and Modeling Division
Federal Insurance and Mitigation Administration

Federal Emergency Management Agency
Washington, D.C. 20472

LETTER OF MAP AMENDMENT
DETERMINATION DOCUMENT (REMOVAL)

ATTACHMENT 1 (ADDITIONAL CONSIDERATIONS)

LEGAL PROPERTY DESCRIPTION (CONTINUED)

BEGINNING at a point being a common corner with Colum Rodgers; thence along Rodgers North 59° 48' 40" East 105.23 feet to a point; thence in and along Hollow Enterprises South 30° 11' 20" East 18.37 feet to a point; thence along the same South 21° 41' 20" East 231.00 feet to a point; thence along the same South 08° 11' 20" East 83.80 feet to a point; thence along the same South 20° 31' 10" East 117.93 feet to a point; thence along the same South 29° 06' 52" East 134.01 feet to a point; thence along the same South 26° 32' 13" East 22.92 feet to a point; thence along the same South 02° 57' 13" West 79.15 feet to a point; thence along lands of Rodgers South 74° 06' 55" West 136.76 feet to a point; thence along the same North 18° 24' 29" West 615.23 feet to a point; thence along the same on a curve to the right having a radius of 35.00 feet and an arc length of 47.78 feet, having a chord bearing and distance of North 20° 42' 05" East 44.16 feet to a place of BEGINNING.

PORTIONS OF THE PROPERTY REMAIN IN THE SFHA (This Additional Consideration applies to the preceding 1 Property.)

Portions of this property, but not the subject of the Determination/Comment document, may remain in the Special Flood Hazard Area. Therefore, any future construction or substantial improvement on the property remains subject to Federal, State/Commonwealth, and local regulations for floodplain management.

This attachment provides additional information regarding this request. If you have any questions about this attachment, please contact the FEMA Map Information eXchange (FMIX) toll free at (877) 336-2627 (877-FEMA MAP) or by letter addressed to the Federal Emergency Management Agency, Engineering Library, 3601 Eisenhower Ave Ste 500, Alexandria, VA 22304-6426.

Luis V. Rodriguez, P.E., Director
Engineering and Modeling Division
Federal Insurance and Mitigation Administration

Federal Emergency Management Agency

Washington, D.C. 20472

April 23, 2013

Mr. Ralph G. Megliola
Chairman of the Barrett Township
Board of Supervisors
993 State Route 390
Cresco, Pennsylvania 18326

Case No:	MICS 11363V
Community:	Township of Barrett, Monroe County, Pennsylvania
Community No.:	421884
Effective Date:	May 03, 2013
LOMC-VALID	

Dear Mr. Megliola:

This letter revalidates the determinations for properties and/or structures in the referenced community as described in the Letters of Map Change (LOMCs) previously issued by the Department of Homeland Security's Federal Emergency Management Agency (FEMA) on the dates listed on the enclosed table. As of the effective date shown above, these LOMCs will revise the effective National Flood Insurance Program (NFIP) map dated May 02, 2013 for the referenced community, and will remain in effect until superseded by a revision to the NFIP map panel on which the property is located. The FEMA case number, property identifier, NFIP map panel number, and current flood insurance zone for the revalidated LOMCs are listed on the enclosed table.

Because these LOMCs will not be printed or distributed to primary map users, such as local insurance agents and mortgage lenders, your community will serve as a repository for this new data. We encourage you to disseminate the information reflected by this letter throughout your community so that interested persons, such as property owners, local insurance agents, and mortgage lenders, may benefit from the information.

For information relating to LOMCs not listed on the enclosed table or to obtain copies of previously issued LOMR-Fs and LOMAs, if needed, please contact our Map Assistance Center, toll free, at 1-877-FEMA-MAP (1-877-336-2627).

Sincerely,

Luis Rodriguez, P.E., Chief
Engineering Management Branch
Federal Insurance and Mitigation Administration

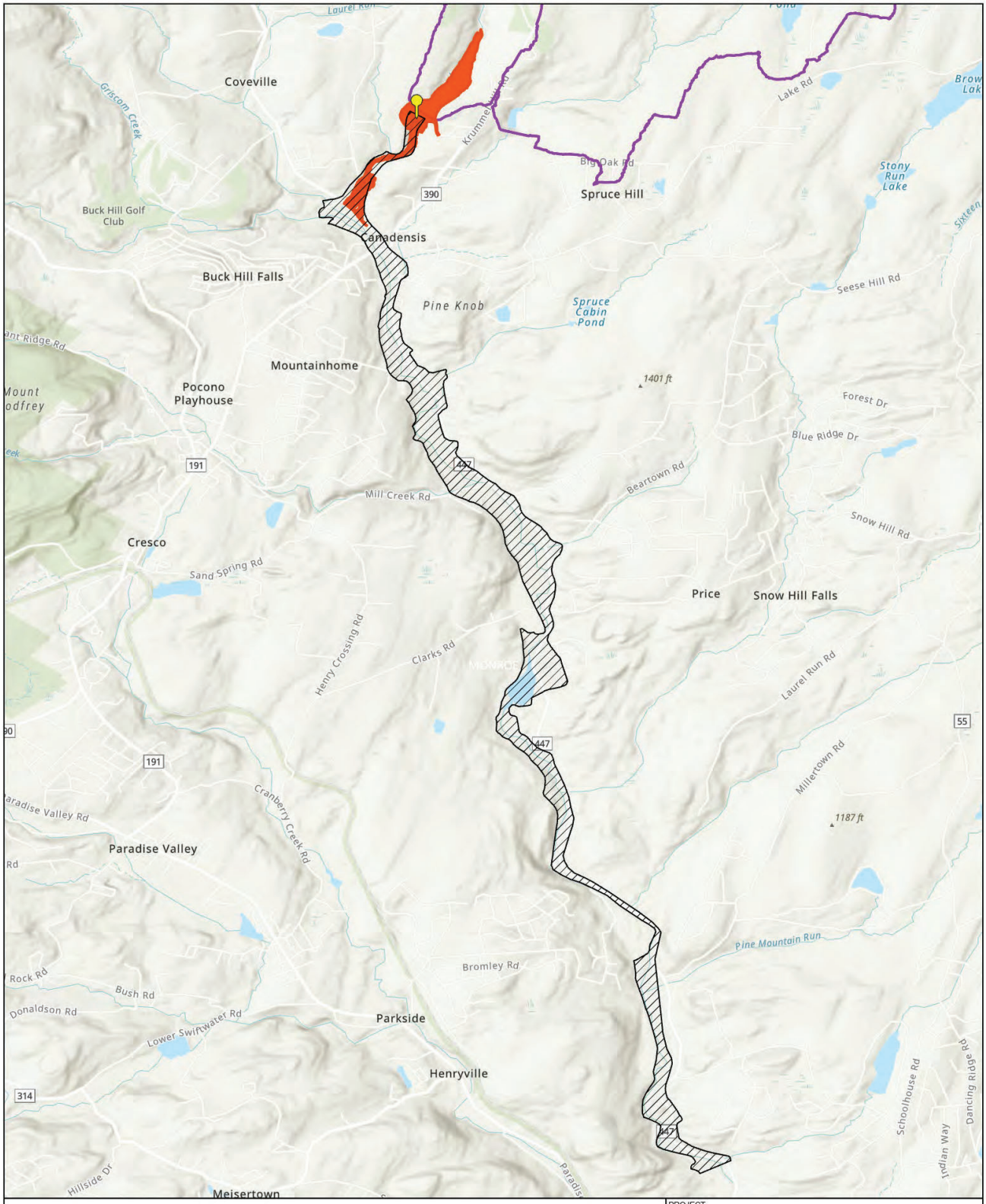
Enclosure

cc: Community Map Repository
Ms. Jeryl Rinehart, Barrett Township Zoning and Sewage Enforcement Officer

REVALIDATED LETTERS OF MAP CHANGE FOR TOWNSHIP OF BARRETT, PA
Case No: MICS_11363V **Community No.: 421884**

May 03, 2013

Case No.	Date Issued	Identifier	Map Panel No.	Zone
99-03-966A	05/21/1999	A PARCEL OF LAND - P.O. BOX 22	42089C0109E	X
12-03-1637A	06/21/2012	LOT 5 - 132 TIMBERLAKE ROAD	42089C0107E	X



Breach Inundation

- Dam
- Study Area: PA-463
- Project Watershed
- Town Boundary
- PA463_Inundation

0 0.43 0.87 1.3 Miles

Data Sources: Esri, NASA, NGA, USGS, FEMA, Esri Community Maps Contributors, data.pa.gov, New Jersey Office of GIS, Esri, TomTom, Garmin, SafeGraph, GeoTechnologies, Inc., METI/NASA, USGS, EPA, NPS, US Census Bureau, USDA, USFWS (Basemap); USGS National Hydrography Dataset, accessed 12/06/2022.

PROJECT

Brodhead Tributaries Watershed Plan Environmental Assessment

PROJECT LOCATION

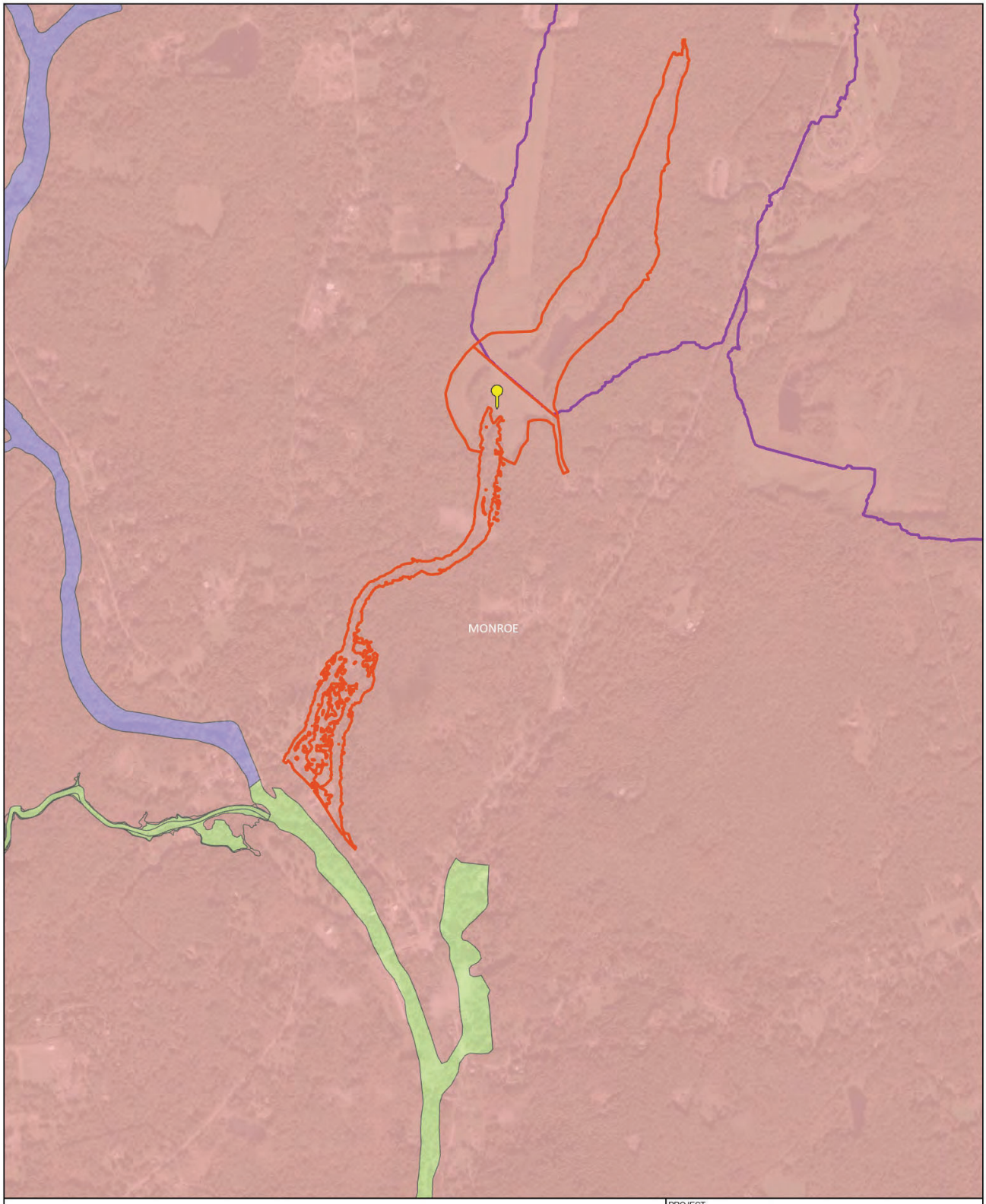
Brodhead Tributaries Watershed
Monroe County,
Pennsylvania

DATE

February 2025

NRCS Natural Resources Conservation Service

DDK Engineering-JV



Floodplain

- Dam
- Study Area: PA-463
- Project Watershed
- Town Boundary

FEMA Special Flood Hazard Area

- A
- AE
- X

0 510 1,020 1,530 Feet

Data Sources: Esri, NASA, NGA, USGS, FEMA, Esri Community Maps Contributors, data.pa.gov, New Jersey Office of GIS, Esri, TomTom, Garmin, SafeGraph, GeoTechnologies, Inc., METI/NASA, USGS, EPA, NPS, US Census Bureau, USDA, USFWS (Basemap); USGS National Hydrography Dataset, accessed 12/06/2022; PA DOT (Town Boundaries, 2020, accessed 11/20/2020); FEMA (FEMA_NFHL_MonroeCounty, accessed 12/06/2022).

PROJECT

Brodhead Tributaries Watershed Plan Environmental Assessment

PROJECT LOCATION

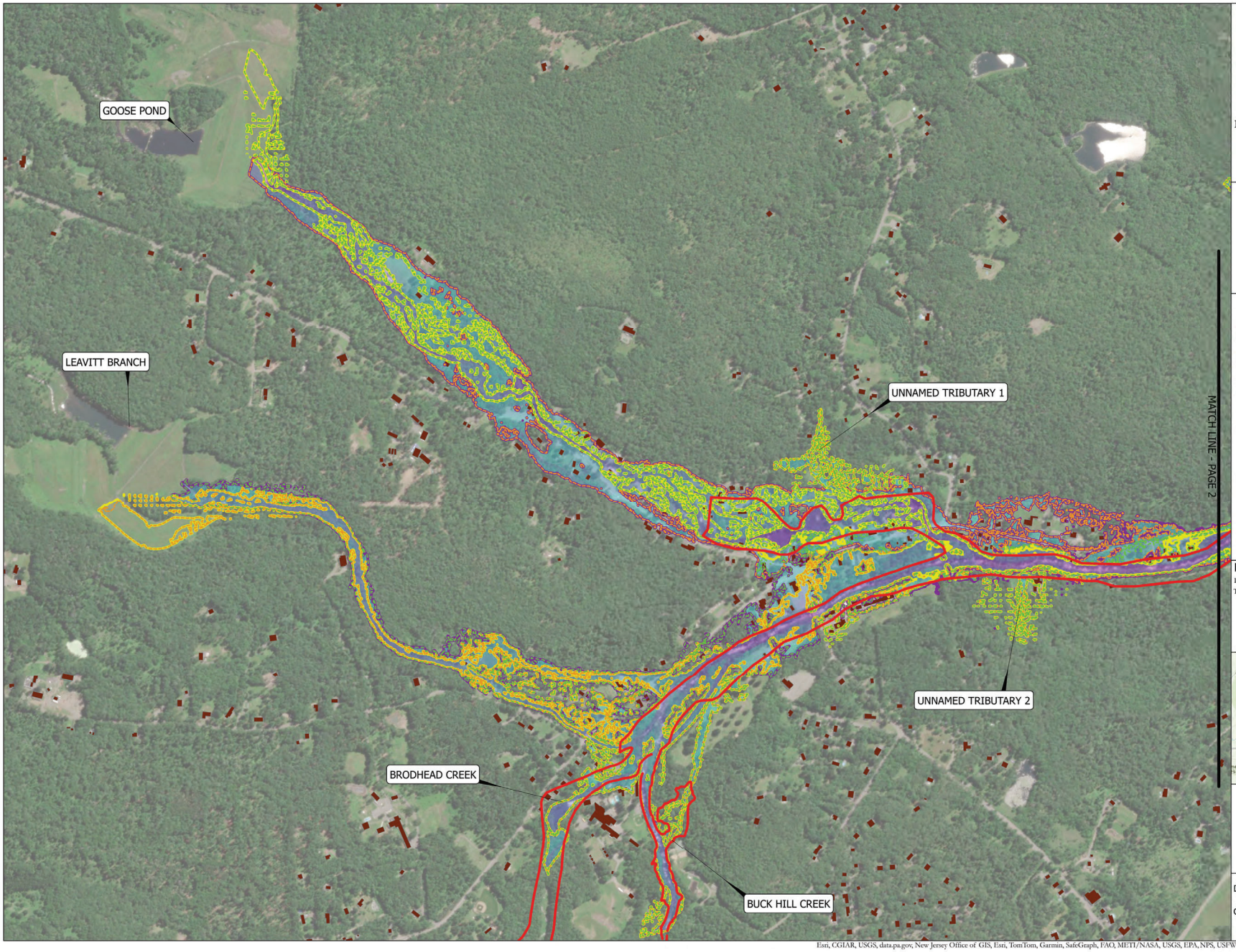
Brodhead Tributaries Watershed
Monroe County,
Pennsylvania

DATE

February 2025

NRCS Natural Resources Conservation Service

DDK Engineering-JV



BRODHEAD TRIBUTARIES INUNDATION MAP

LEAVITT BRANCH DAM AND GOOSE POND DAM
MONROE COUNTY, PENNSYLVANIA

100-YEAR UNSTEADY FLOW STORM EVENT INUNDATION MAP
PAGE 1 OF 3

N

400 200 0 400
US Feet

LEGEND

- FEMA 100-YEAR FLOOD BOUNDARY
- INUNDATION BOUNDARY LEAVITT DECOMMISSIONED
- INUNDATION BOUNDARY GOOSE DECOMMISSIONED
- INUNDATION BOUNDARY BOTH DAMS OPERATING
- INUNDATION BOUNDARY BOTH DAMS DECOMMISSIONED
- BUILDING FOOTPRINT

BOTH DAMS DECOMMISSIONED INUNDATION DEPTH

VALUE

- 23 FT
- 15 FT
- 10 FT
- 5 FT
- 0.001 FT

NOTES

1. FEMA FLOOD BOUNDARY SHOWN ON MAP USED DIFFERENT TOPOGRAPHY IN ANALYSIS

Coordinate System: NAD83 / Pennsylvania North

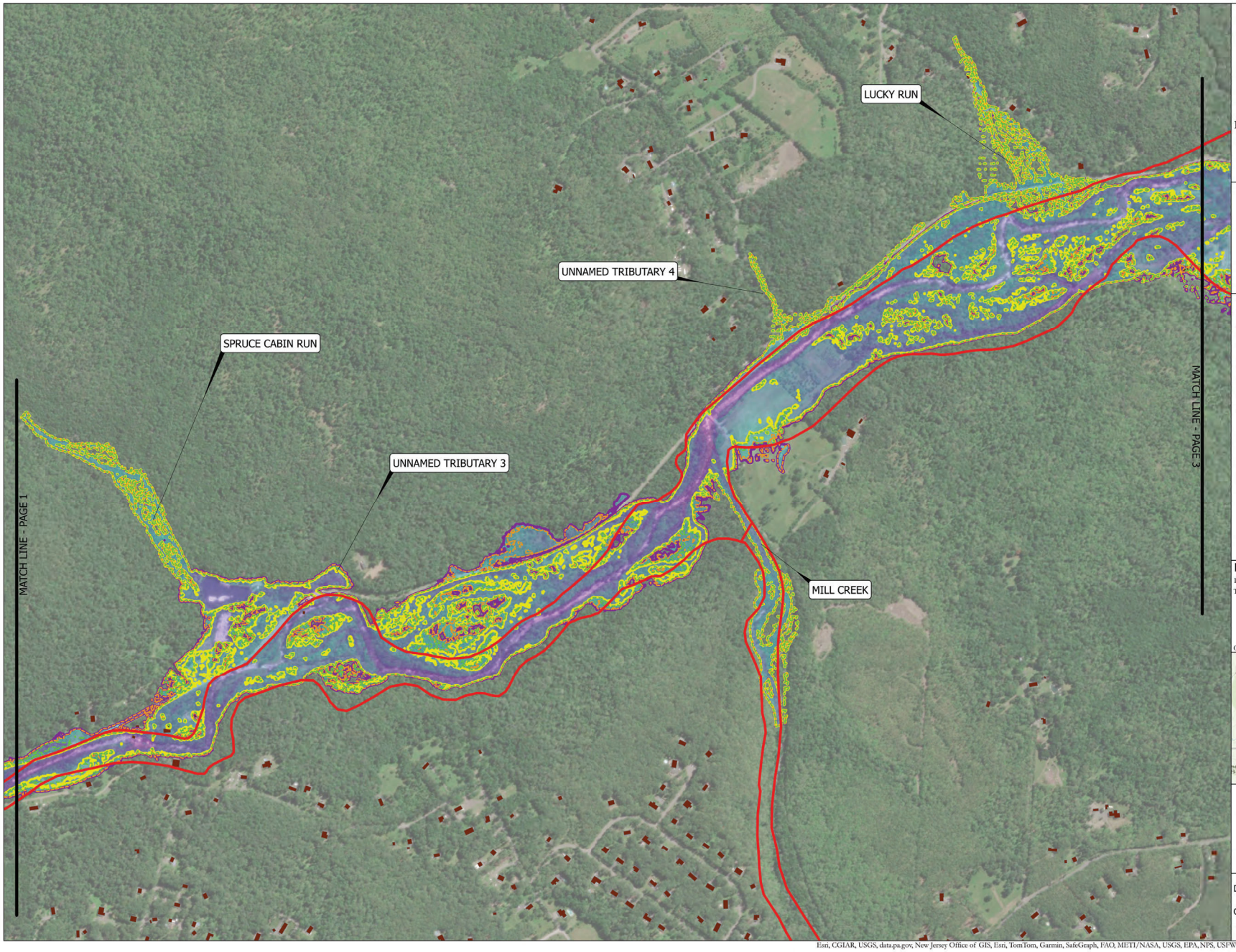


DDK Engineering-JV

USDA United States Department of Agriculture
Natural Resources Conservation Service

DRAWN BY: MMS DATE: 10/30/23	DRAWING NO. 26
CHECKED BY: MJG DATE: 11/8/23	

Esri, CGIAR, USGS, data.pa.gov, New Jersey Office of GIS, Esri, TomTom, Garmin, SafeGraph, FAO, METI/NASA, USGS, EPA, NPS, USFWS, Maxar



BRODHEAD TRIBUTARIES INUNDATION MAP

LEAVITT BRANCH DAM AND GOOSE POND DAM
MONROE COUNTY, PENNSYLVANIA

100-YEAR UNSTEADY FLOW STORM EVENT INUNDATION MAP

PAGE 2 OF 3

N

400 200 0 400
US Feet

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DDK Engineering-JV

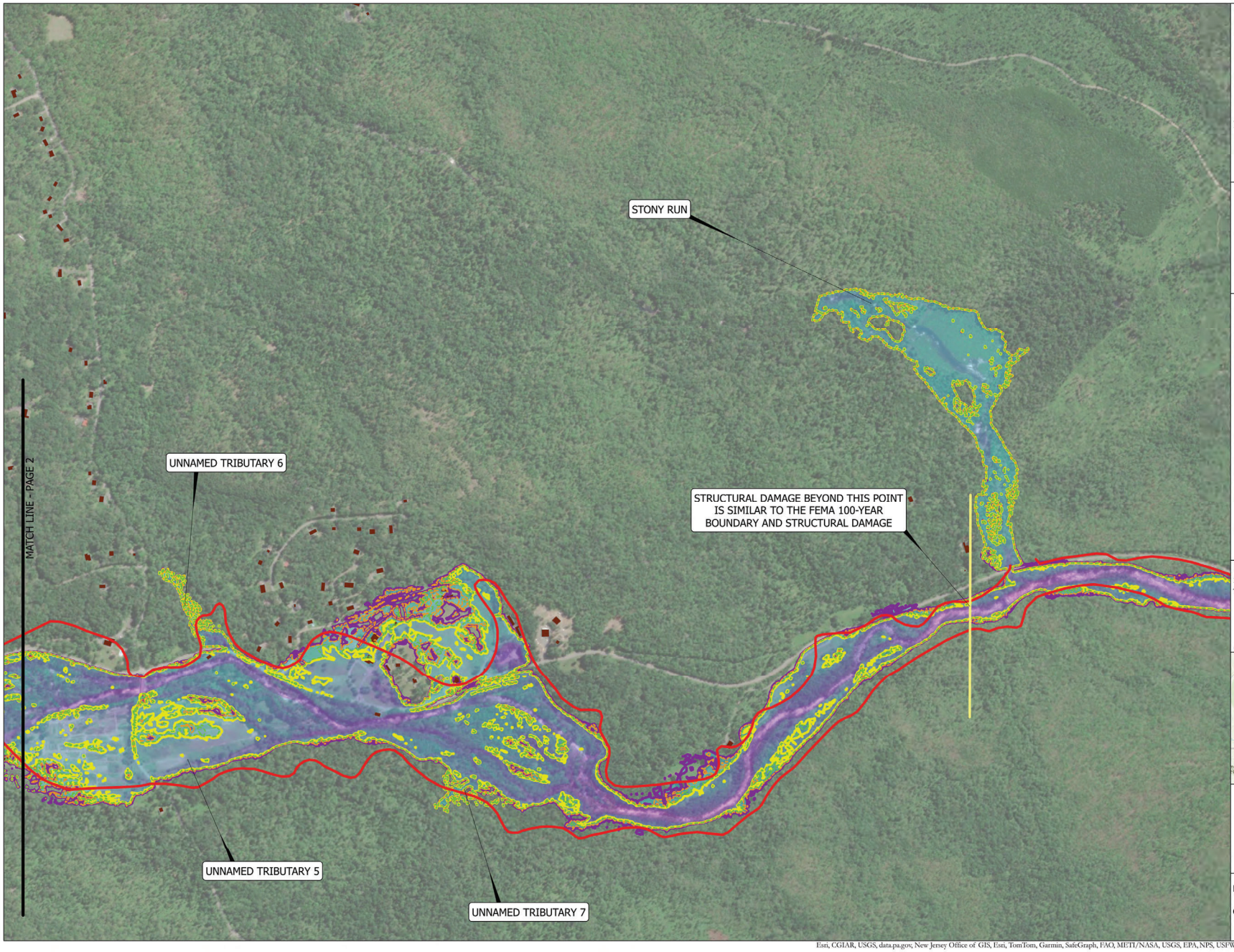
USDA United States Department of Agriculture
Natural Resources Conservation Service

DRAWN BY: MMS DATE: 10/30/23

CHECKED BY: MJG DATE: 11/8/23

DRAWING NO. 27

Esri, CGIAR, USGS, data.pa.gov, New Jersey Office of GIS, Esri, TomTom, Garmin, SafeGraph, FAO, METI/NASA, USGS, EPA, NPS, USFWS, Maxar



BRODHEAD TRIBUTARIES INUNDATION MAP

LEAVITT BRANCH DAM AND GOOSE POND DAM
MONROE COUNTY, PENNSYLVANIA

100-YEAR UNSTEADY FLOW STORM EVENT INUNDATION MAP

PAGE 3 OF 3

N

400 200 0 400
US Feet

LEGEND

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- INUNDATION BOUNDARY GOOSE DECOMMISSIONED
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BOTH DAMS DECOMMISSIONED INUNDATION DEPTH

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DDK Engineering-JV

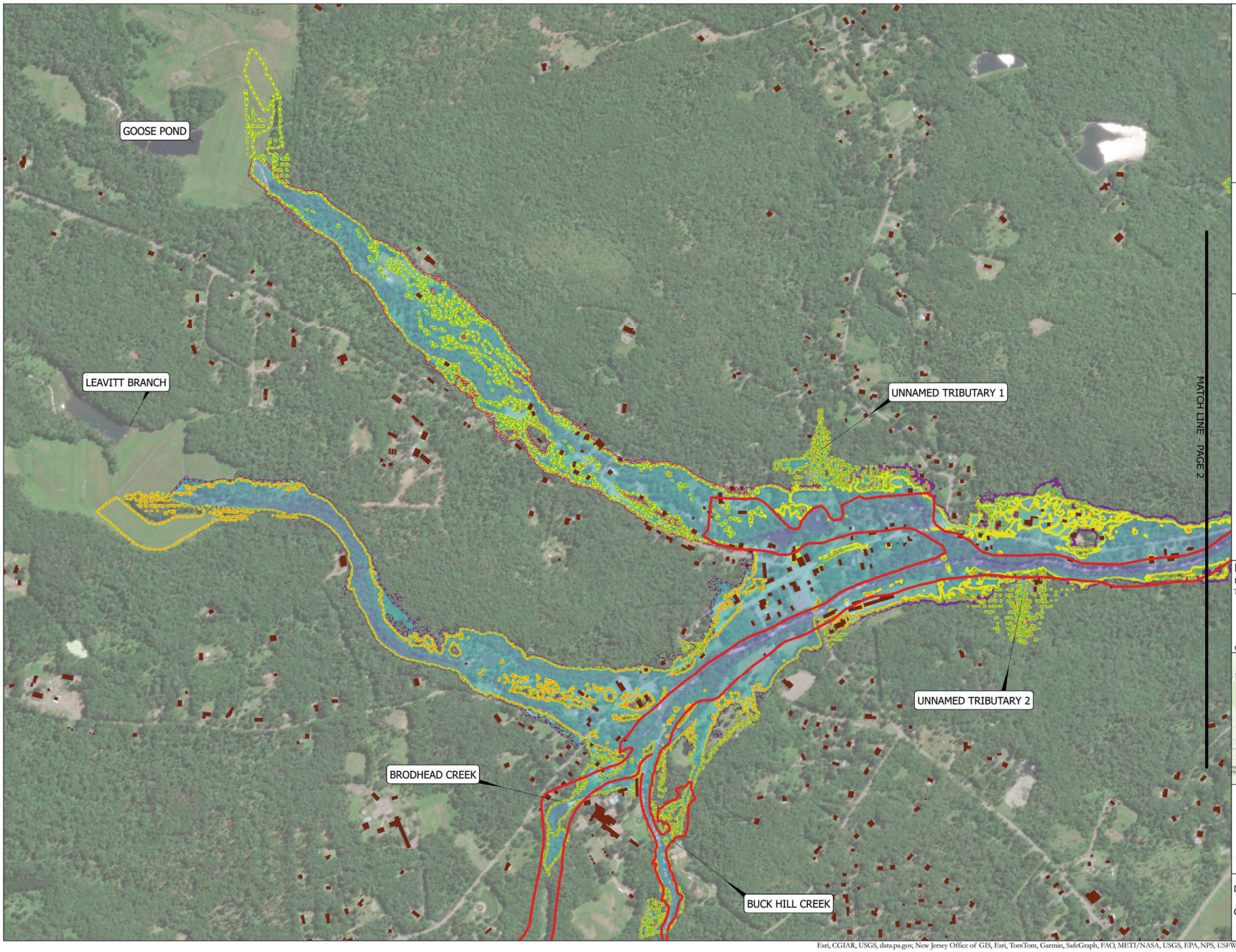
USDA United States Department of Agriculture
Natural Resources Conservation Service

DRAWN BY: MMS DATE: 10/30/23

CHECKED BY: MJG DATE: 11/8/23

DRAWING NO. 28

Esri, CGIAR, USGS, data.pa.gov, New Jersey Office of GIS, Esri, TomTom, Garmin, SafeGraph, FAO, METI/NASA, USGS, EPA, NPS, USFWS, Maxar



BRODHEAD TRIBUTARIES INUNDATION MAP

LEAVITT BRANCH DAM AND GOOSE POND DAM
MONROE COUNTY, PENNSYLVANIA

500-YEAR STEADY FLOW STORM EVENT INUNDATION MAP

PAGE 1 OF 3

N

400 200 0 400
US Feet

LEGEND

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- BUILDING FOOTPRINT
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BOTH DAMS DECOMMISSIONED INUNDATION DEPTH

VALUE

- 40 FT
- 35 FT
- 30 FT
- 25 FT
- 20 FT
- 15 FT
- 10 FT
- 5 FT
- 0.001 FT

NOTES

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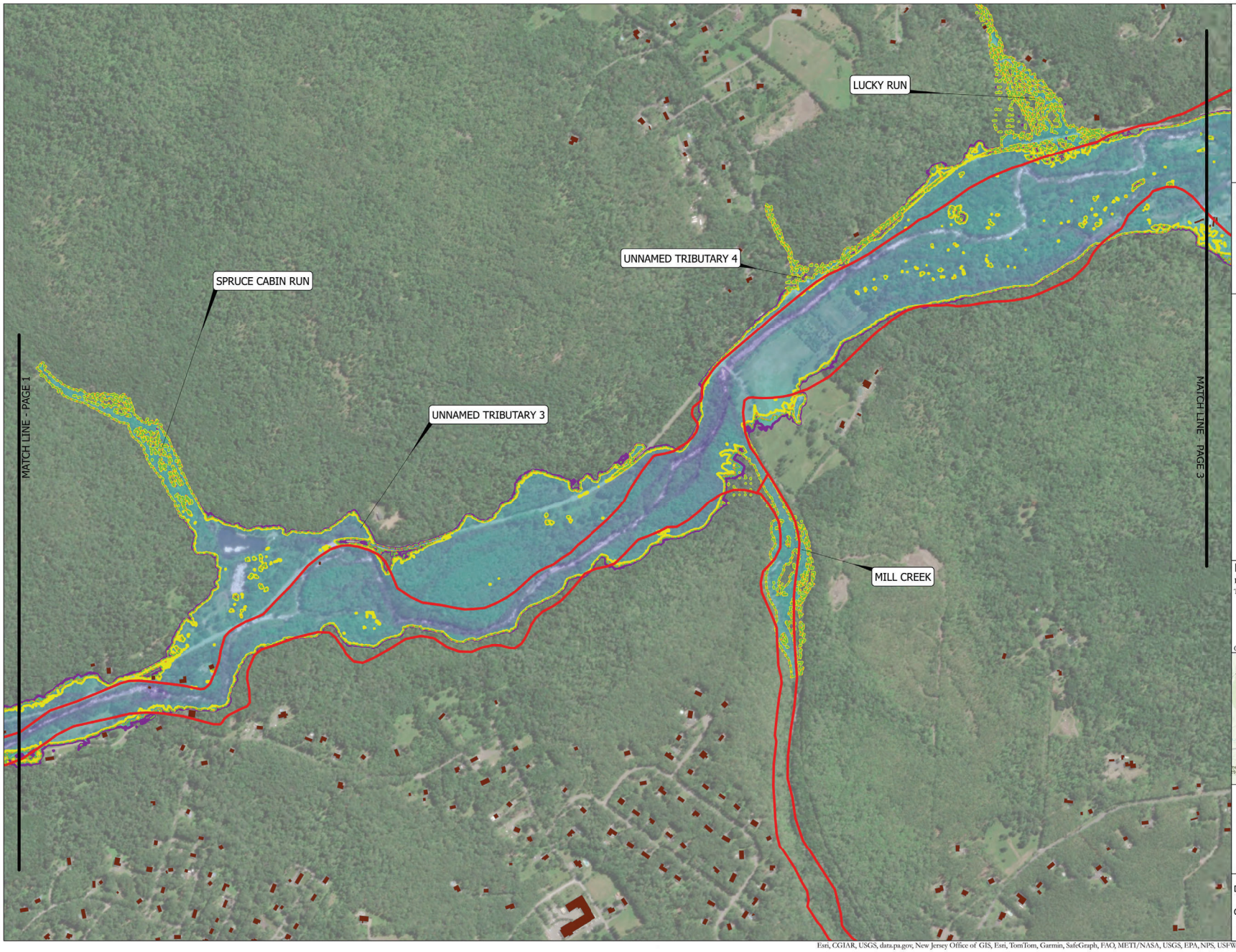


DDK Engineering-JV

USDA United States Department of Agriculture
Natural Resources Conservation Service

DRAWN BY: MMS DATE: 10/30/23	DRAWING NO. 17
CHECKED BY: MJG DATE: 11/8/23	

Esri, CGIAR, USGS, data.pa.gov, New Jersey Office of GIS, Esri, TomTom, Garmin, SafeGraph, FAO, METI/NASA, USGS, EPA, NPS, USFWS, Maxar



BRODHEAD TRIBUTARIES INUNDATION MAP

LEAVITT BRANCH DAM AND GOOSE POND DAM
MONROE COUNTY, PENNSYLVANIA

500-YEAR STEADY FLOW STORM EVENT INUNDATION MAP
PAGE 2 OF 3

N

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US Feet

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BOTH DAMS DECOMMISSIONED INUNDATION DEPTH

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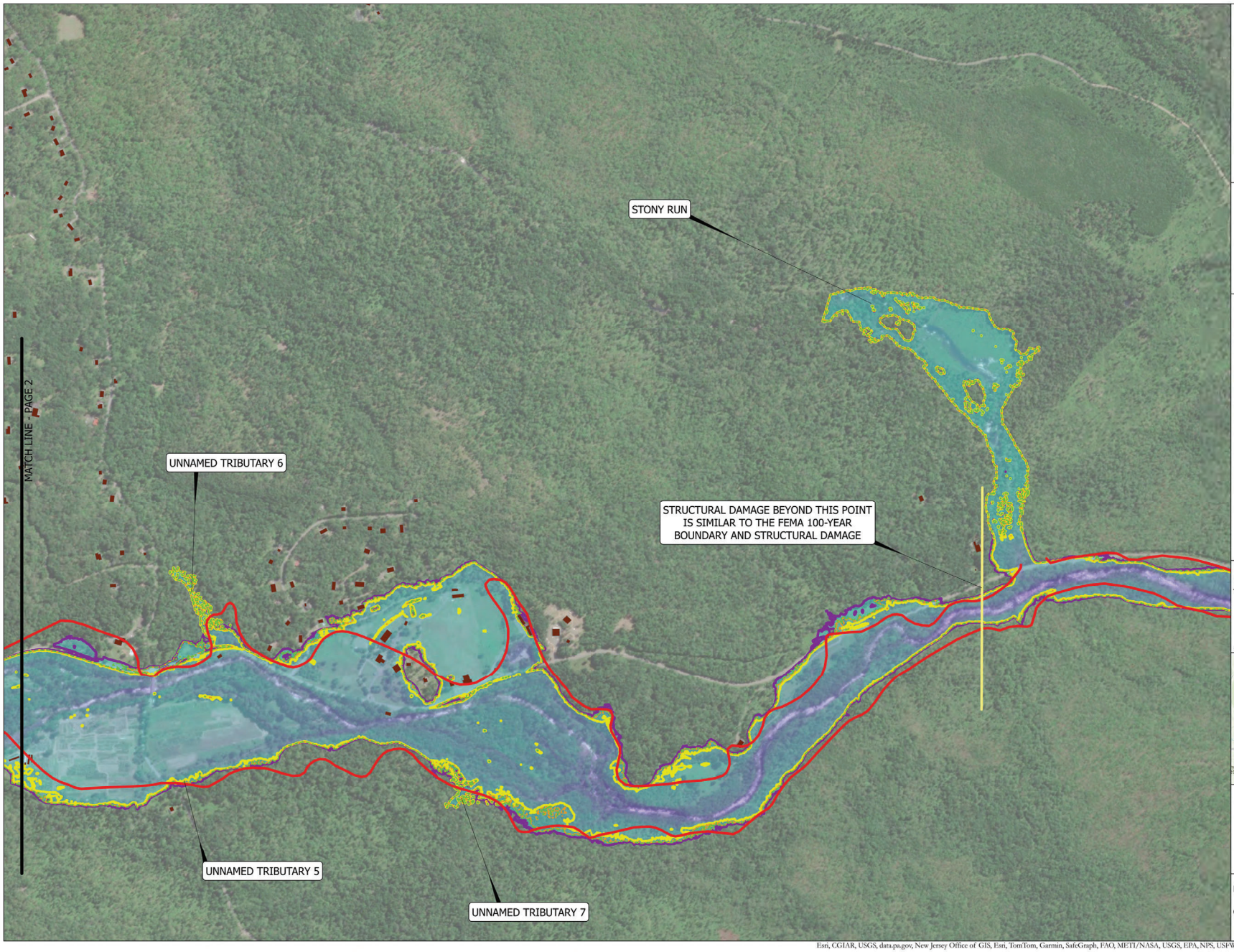
USDA United States Department of Agriculture
Natural Resources Conservation Service

DRAWN BY: MMS DATE: 10/30/23

CHECKED BY: MJG DATE: 11/8/23

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BRODHEAD TRIBUTARIES INUNDATION MAP

LEAVITT BRANCH DAM AND GOOSE POND DAM
MONROE COUNTY, PENNSYLVANIA

500-YEAR STEADY FLOW STORM EVENT INUNDATION MAP

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N

400 200 0 400
US Feet

LEGEND

- FEMA 100-YEAR FLOOD BOUNDARY
- BUILDING FOOTPRINT
- INUNDATION BOUNDARY LEAVITT DECOMMISSIONED
- INUNDATION BOUNDARY GOOSE DECOMMISSIONED
- INUNDATION BOUNDARY BOTH DAMS OPERATING
- INUNDATION BOUNDARY BOTH DAMS DECOMMISSIONED

BOTH DAMS DECOMMISSIONED INUNDATION DEPTH

VALUE

- 40 FT
- 35 FT
- 30 FT
- 25 FT
- 20 FT
- 15 FT
- 10 FT
- 5 FT
- 0.001 FT

NOTES

1. FEMA FLOOD BOUNDARY SHOWN ON MAP USED DIFFERENT TOPOGRAPHY IN ANALYSIS

Coordinate System: NAD83 / Pennsylvania North



DDK Engineering-JV

USDA United States Department of Agriculture
Natural Resources Conservation Service

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