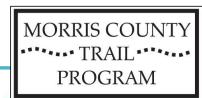


# WELCOME Program Overview May 14, 2024

2024 MORRIS COUNTY TRAIL CONSTRUCTION GRANT PROGRAM

# Agenda



# AGENDA-PART 1: Do's & Don'ts of Trail Design

Mr. Ed Confair, PE & CLA

Vice President Landscape & Resiliency

AKRF (formerly E&LP)

**AGENDA-PART 2: Program Overview** 

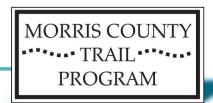
Ms. Denise Chaplick, AICP

Program Administrator &

Director Park Planning & Development

2024 MORRIS COUNTY TRAIL CONSTRUCTION GRANT PROGRAM

# Agenda



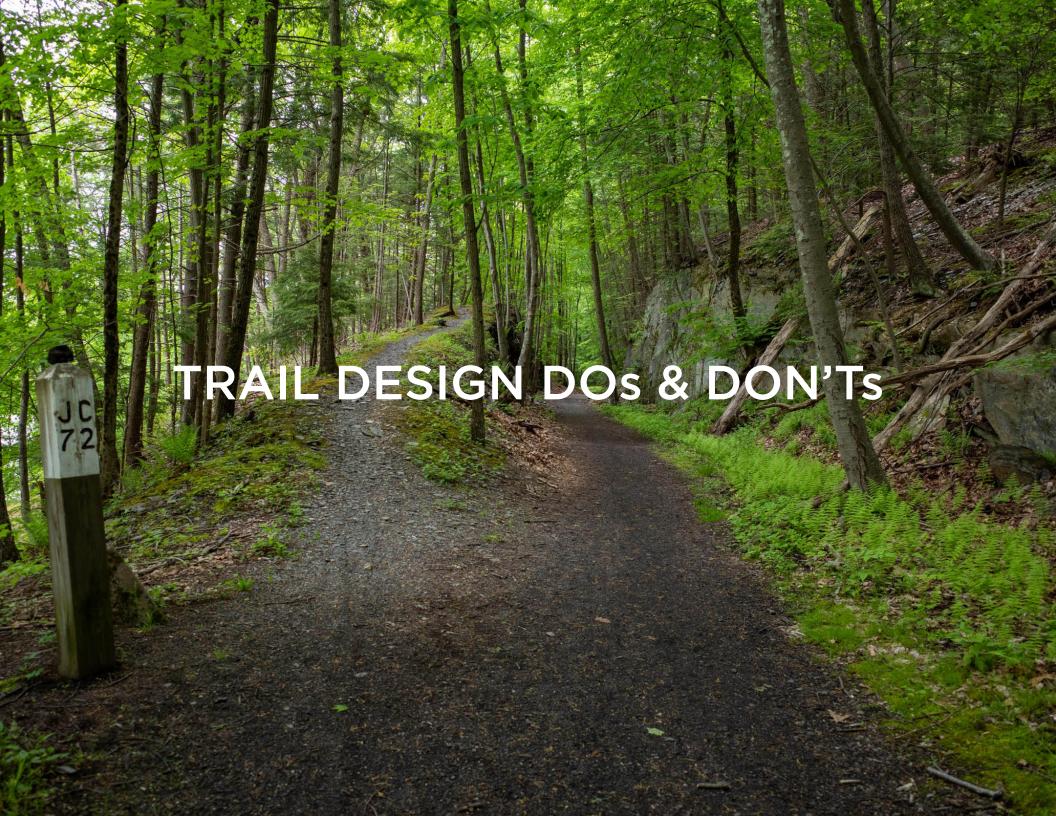
# AGENDA-PART 1: Do's & Don'ts of Trail Design

# Mr. Ed Confair, PE & CLA

- Fundamentals of Trail Class & Materials
- Basic Documentation
- Real World Project Examples
- Right Materials/Right Location
- Construction Details



**2024 MORRIS COUNTY TRAIL CONSTRUCTION GRANT PRO** 



# 2024 Application

### **APPLICATION FORM - 2024 DESIGN**

### 10) Trail Design Intent & Standards

Provide the following information related to the design intent of the proposed trail project.

### a. Trail Class

	CLASS TYPE	DESCRIPTION	LENGTH (feet / Mile)
$\checkmark$	Trail Class 1:	Minimally Developed	
$\checkmark$	Trail Class 2:	Moderately Developed	
$\checkmark$	Trail Class 3:	Developed	
<b>√</b>	Trail Class 4:	Highly Developed	
<b>√</b>	Trail Class 5:	Fully Developed	

### b. Designated Use

NON-MOTORIZED	MOTORIZED
Pedestrian/Hiker	Motorized (off-road use)
Biking/Mountain Biking	ATV (all-terrain vehicle or quad)
Equestrian	Off Highway Vehicle (OHV-jeeps, etc.)
Mixed Use	

### c. Surface Type

IMPERVIOUS SURFACE		POROUS SURFACE	
TYPE	LENGTH (feet/mile)	TYPE	LENGTH (feet/mile)
Concrete		Wood Chips/Mulch	
Asphalt		Gravel/Stone Dust	
Boardwalk		Native Soil	
Other		Porous Pavement	

### d. Design Features

Trail Width (inches/feet)	
Target Grade (percent)	
Clearing Width (feet/inches)	
Shoulder Width (feet/inches)	

### e. Design Standards

Provide description:			

### **INSTRUCTIONS - 2024 DESIGN APPLICATION**

- → Permit fees are not an eligible expense of the grant program. DO NOT include permit fees as part of the professional services fees.
- → Applicants are responsible to obtain all permits required to complete construction. Applications that do not address an approach to securing permits may be deemed ineligible.

### iii. Stormwater Management

Utilizing the most current NJDEP stormwater management regulations evaluate preliminary and final drainage analysis of the proposed project to determine necessary stormwater management measures.

### iv. Structural

Conduct geotechnical studies, as necessary, to support implementation of structural features (like bridges and boardwalks) proposed within the project area. Include test pit borings and laboratory testing as required.

### v. Construction Documents

Prepare preliminary and final design plans for the use of advancing project development, obtaining permits, preparing accurate cost estimates, and preparing bid ready construction documents.

Minimally, the final construction documents shall include:

- Key Sheet
- o Estimate-Distribution of Quantities
- Existing Conditions Plan
- Typical Sections
- Construction Plans
- o Grading & Drainage Plan
- Soil Erosion and Sediment Control Plan
- Structural Plans & Details (if applicable)
- Construction Details
- Landscape Plan (if applicable)

Final plans shall be consistent and in accordance with the designated trail use, trail class, and design standards identified in Section 10 of this application.

All final deliverables shall be signed and sealed by the licensed professional preparing the documents.

# 2024 Application

### **APPLICATION FORM - 2024 DESIGN**

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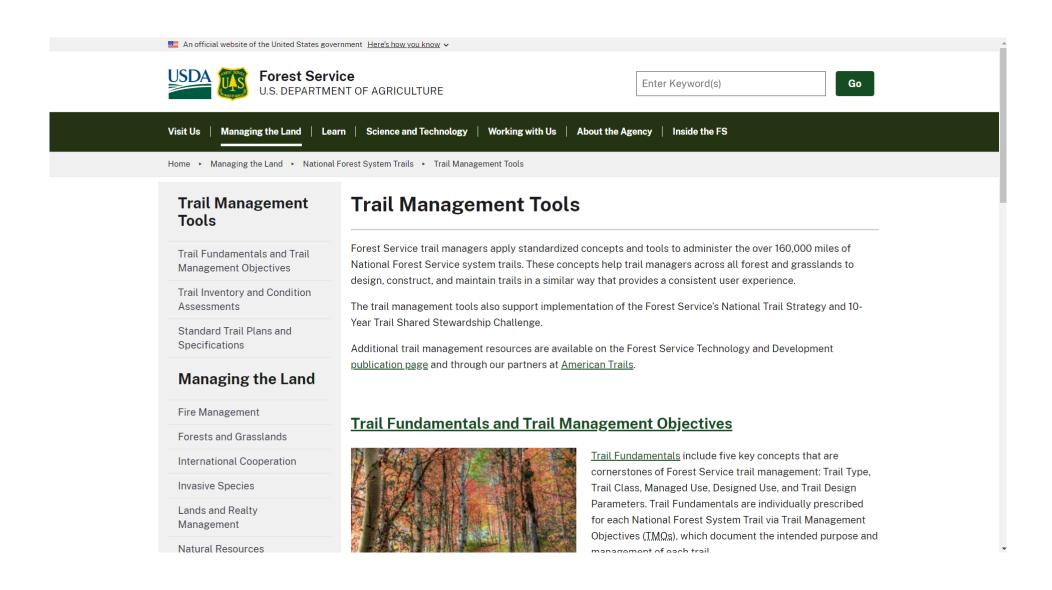
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## **Trail Class & Material**



# **Trail Class & Material**

### Trail Class 1





Trail Class 1: Tread – The tread is intermittent and indistinct



**Trail Class 1: Obstacles**—Obstacles are common, naturally occurring, and often substantial.



Trail Class 2





Trail Class 2: Tread—The tread is continuous and discernible, but narrow and rough.





**Trail Class 2: Obstacles**—Obstacles may be common and substantial. Blockages are cleared to define the route and protect resources. Vegetation may encroach into the trailway.

# **Trail Class & Material**

### Trail Class 3





Trail Class 3: Tread—The tread is continuous and obvious.



**Trail Class 3: Obstacles**—Obstacles may be common. Vegetation is cleared outside of the trailway.

### Trail Class 4





Trail Class 4: Tread—The tread is wide and relatively smooth, with few irregularities.



**Trail Class 4: Obstacles**—Obstacles are infrequent and insubstantial. Vegetation is cleared outside of the trailway.



Trail Class 5



**Trail Class 5: Tread**—The tread is wide, firm, stable, and generally uniform. Trails are commonly hardened with asphalt or other imported material.



**Trail Class 5: Obstacles**—Obstacles are not present. Grades are typically less than 8 percent.

# 2024 Application

### **APPLICATION FORM - 2024 DESIGN**

### 10) Trail Design Intent & Standards

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Boardwalk		Native Soil	
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Target Grade (percent)	
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Provide description:

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### v. Construction Documents

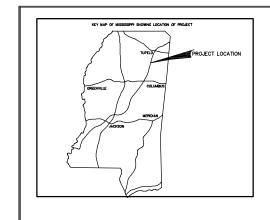
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- Landscape Plan (if applicable)

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YOUR REGION

YOUR FOREST NAME
YOUR DISTRICT NAME

TRAIL CONSTRUCTION PLANS FOR

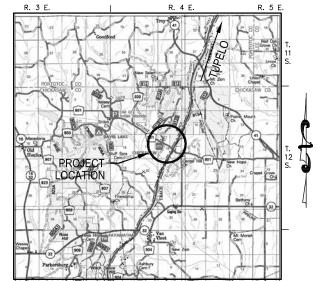
YOUR PROJECT NAME



### <u>INDEX</u>

SHEET	SHEET NO.
TITLE VICINITY MAP GENERAL NOTES WORK LIST LINE DIAGRAM SUMMARY OF QUANTITIES STANDARD TRAIL TERMS TYPICAL CROSS SECTION & SLOPE FINISH TYPICAL RETAINERS EXISTING TRAIL RESTORATION CLEARING LIMITS—TREES & LOGS CLEARING LIMITS—TRESS & LOGS CLEARING LIMITS—TRESS & LOGS TYPICAL SURFACING SECTIONS ROCK FOUNDATIONS STANDARD CULVERTS	1 1 2 4 5 6 8 10 11 12 13 15
DRAIN DIP	16&17 18 19

XXX	XX/XX/XX
XXX	DATE
xxx	XX/XX/X
XXX	DATE
RECOMMENDED BY:	
xxx	xx/xx/x
DISTRICT RANGER/PROGRAM MANAGER	DATE
xxx	XX/XX/X
FOREST/STATION ENGINEER	DATE
APPROVED BY:	
xxx	xx/xx/x
FOREST SUPERVISOR/STATION DIRECTOR	DATE
xxx	xx/xx/x
REGIONAL/RESEARCH ENGINEER	DATE



PROJECT SITE

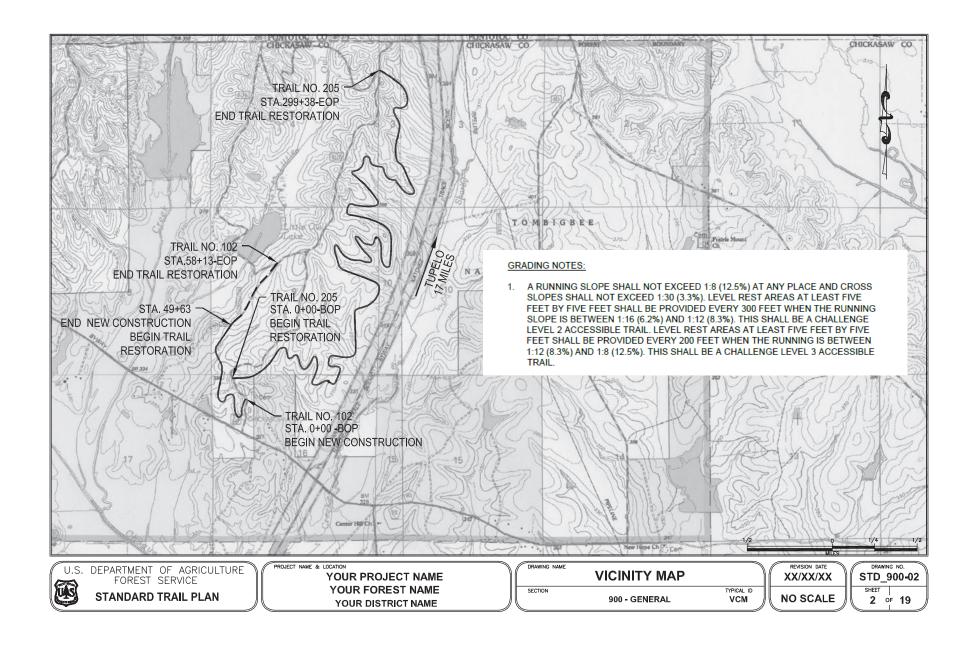
REVISIONS:	
No. A NAME	XX/XX/XX XXX DATE INITIALS
No. 2 NAME	XX/XX/XX XXX DATE INITIALS
No. A NAME	xx/xx/xx xxx
	DATE INITIALS

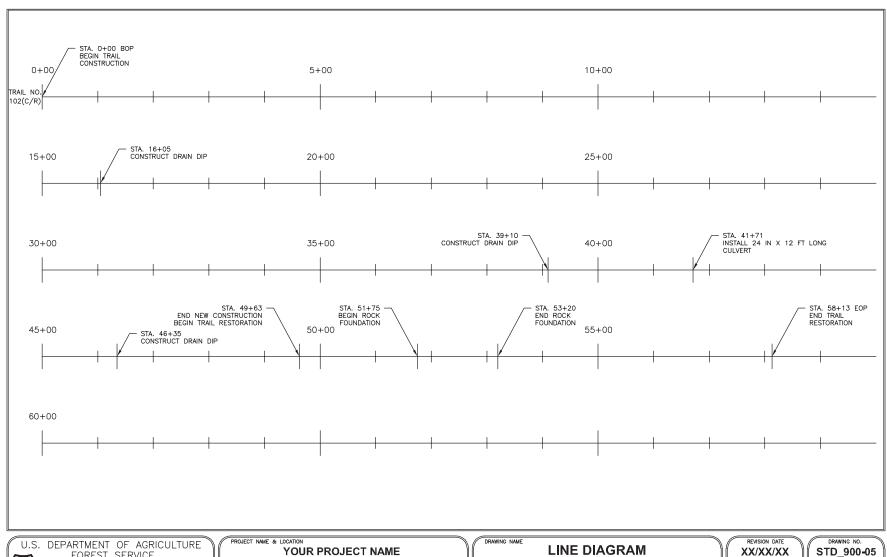
DESIGN: NAME	XX/XX/XX DATE
DRAWN: NAME	xx/xx/xx
CHECKED: NAME	DATE XX/XX/XX
	DATE

THOUSE	YOUR PROJECT NAME	
SECTION		TYPICAL ID
	900-GENERAL	TTL

REVISION DATE  XX/XX/XX	S
NO SCALE	

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	SHEET			
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CT NAME & LOCATION
YOUR PROJECT NAME
YOUR FOREST NAME
YOUR DISTRICT NAME

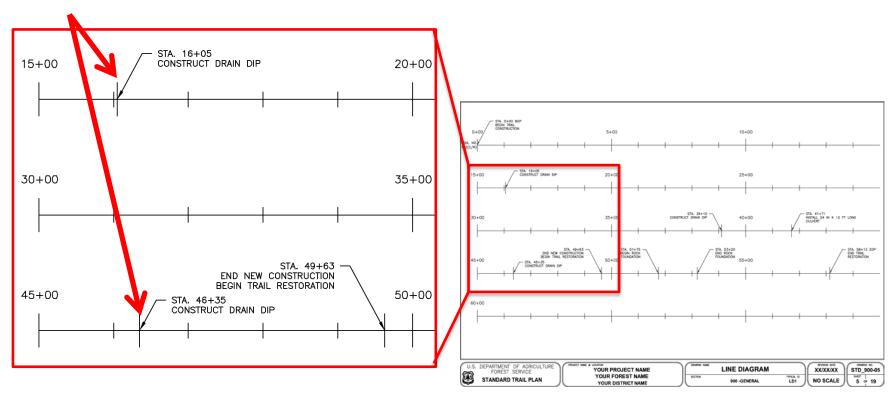
DRAWING NAME	LINE DIAGRAM	
SECTION		TYPICAL ID
	900 -GENERAL	LD1

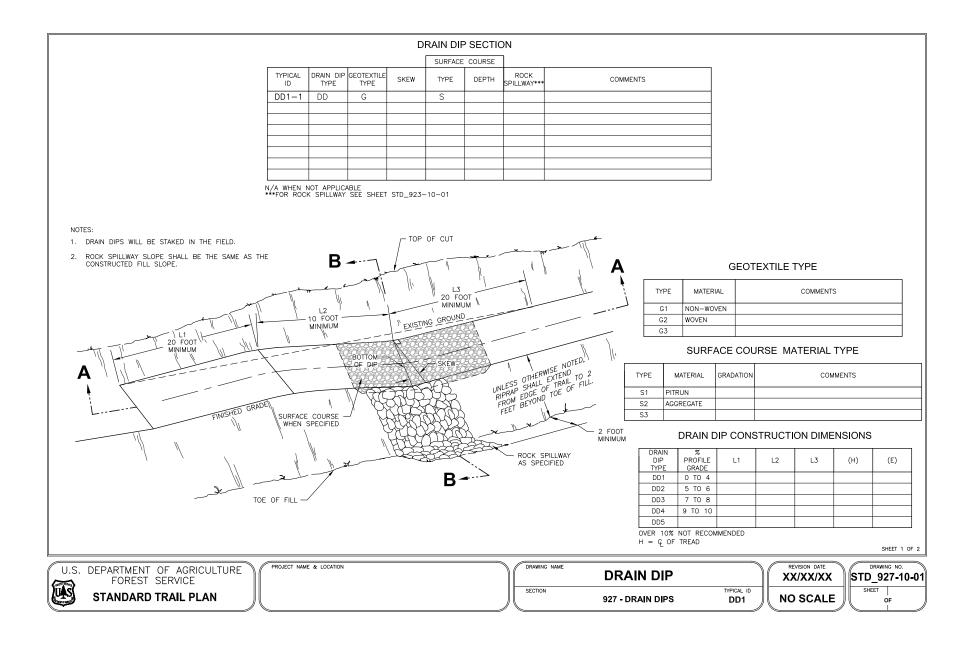
	_
REVISION DATE	DRAWING NO
XX/XX/XX	STD_900
O SCALE	SHEET 5 OF 1

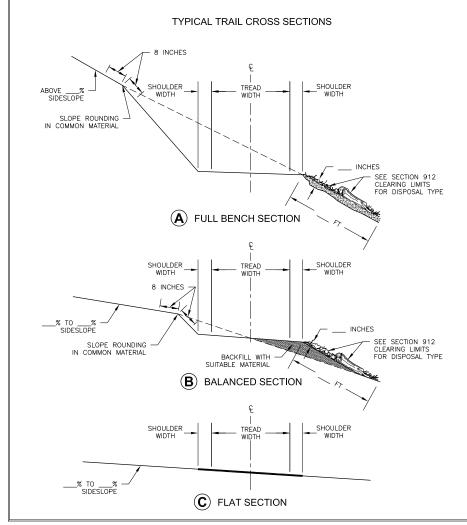
# **Defining the Location and Scope**

### **Line Diagram (continued)**

Step 23: Insert hash marks for specific trail construction activities such as drainage structures, trail structures, trail bridges, and so forth, and label each construction activity.







### TYPICAL TRAIL TREAD AND SHOULDER WIDTH

TYPICAL ID	SECTION TYPE	TREAD FINISH	TREAD WIDTH	SHOULDER WIDTH		COMMENTS
				UPHILL	DOWNHILL	COMMENTS
TSF-1		T				

### TREAD CROSS SLOPE

	TYPICAL ID	OUTSLOPE	INSLOPE	CROWNED SECTION	COMMENTS
ı		%	%	%	

### SLOPE AND TRAILBED FINISH

TREAD TINISH	ROOTS	LOOSE ROCK	EMBEDDED ROCK	COMMENTS
T1				
T2				
T3				
T4				
T5				_
T6				

### TRAILBED AND SLOPE FINISH

### SLOPE FINISH

REMOVE ROOTS THAT PROTRUDE FROM THE BACKSLOPE WITH DIAMETERS GREATER THAN SHOWN IN THE SLOPE AND TRAILBED FINISH TABLE.

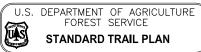
### TRAILBED FINISH

REMOVE LOOSE ROCK ON THE TRAILBED WITH A DIMENSION GREATER THAN SHOWN IN THE SLOPE AND TRAILBED FINISH TABLE.

REMOVE OR REDUCE EMBEDDED ROCK THAT PROTRUDES MORE THAN THE DIMENSIONS SHOWN IN THE SLOPE AND TRAILBED FINISH

### NOTES

- SLASH CONSISTS OF LOGS, LIMBS, BRUSH, AND ROCKS PLACED RANDOMLY IN A WAY TO CATCH SEDIMENT MOVEMENT.
- 2. LIMB ALL TREES AND SHRUBS AND TAMP SLASH INTO GROUND SO THAT 80% OF SLASH IS IN CONTACT WITH THE GROUND.



PROJECT NAME & LOCATION

DRAWING NAME TYPICAL
CROSS SECTION & SLOPE FINISH
SECTION

911 - TREAD AND PRISM

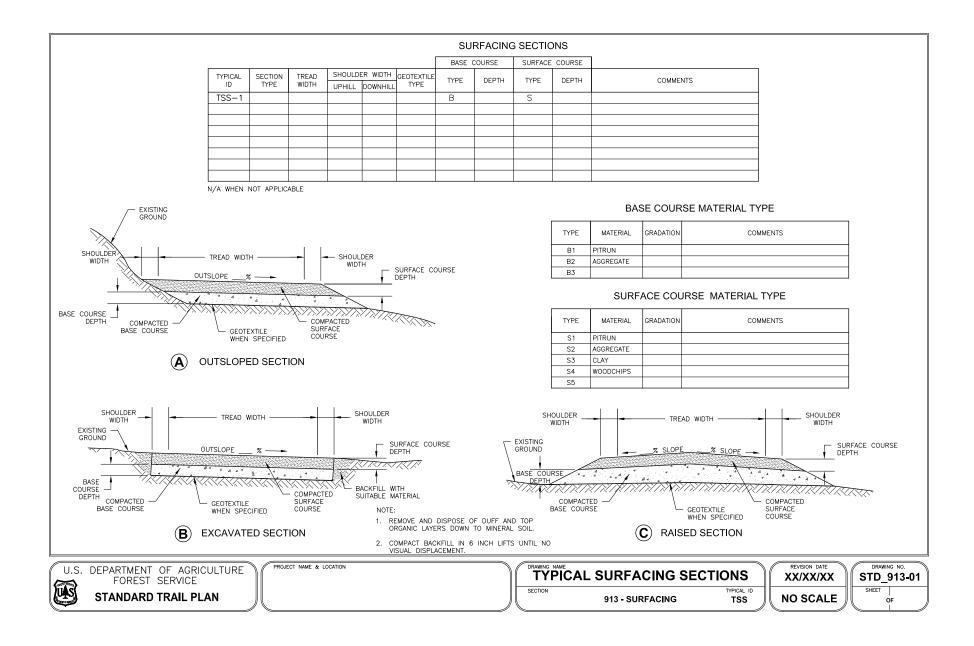
TSF/TCS

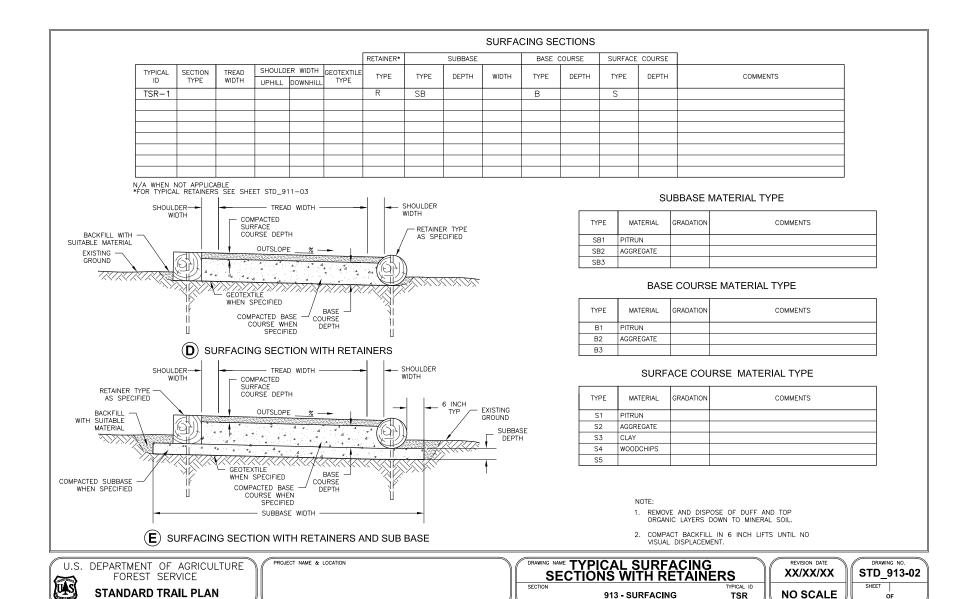
REVISION DATE

XX/XX/XX

**NO SCALE** 

STD\_911-01
SHEET OF





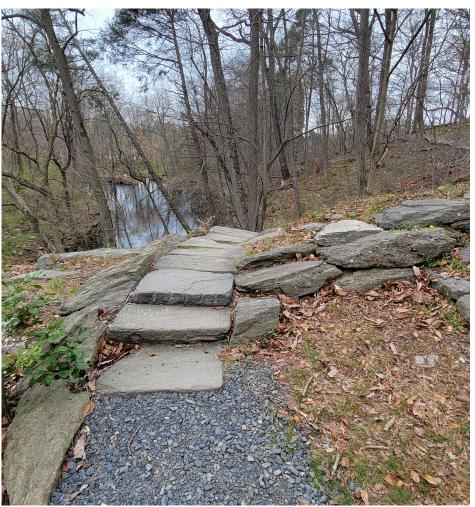






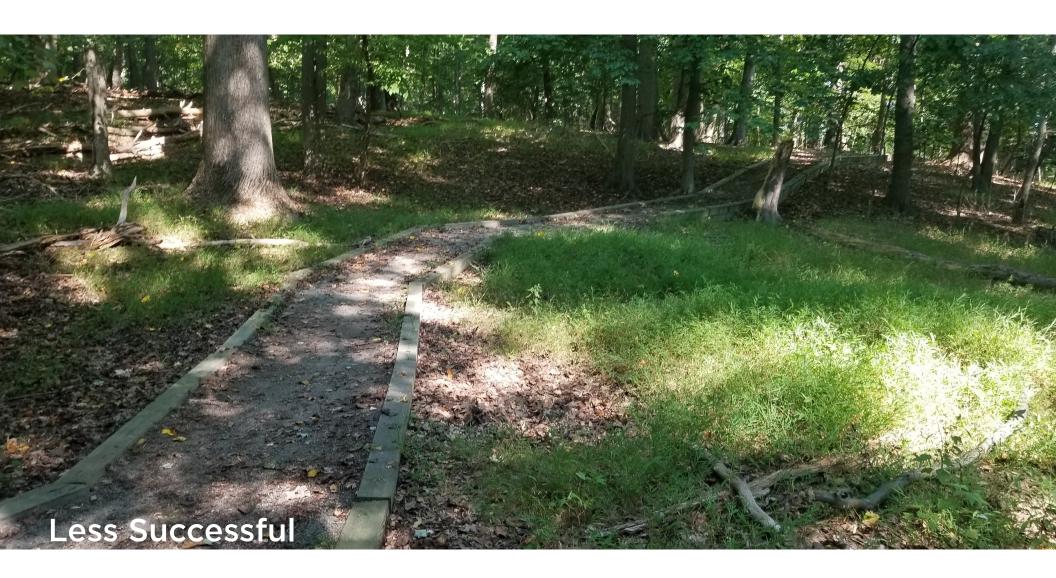








# Precedent - Cherry Hill, New Jersey



# Precedent - West Grove, PA







Image Credit: AKRF, Inc.

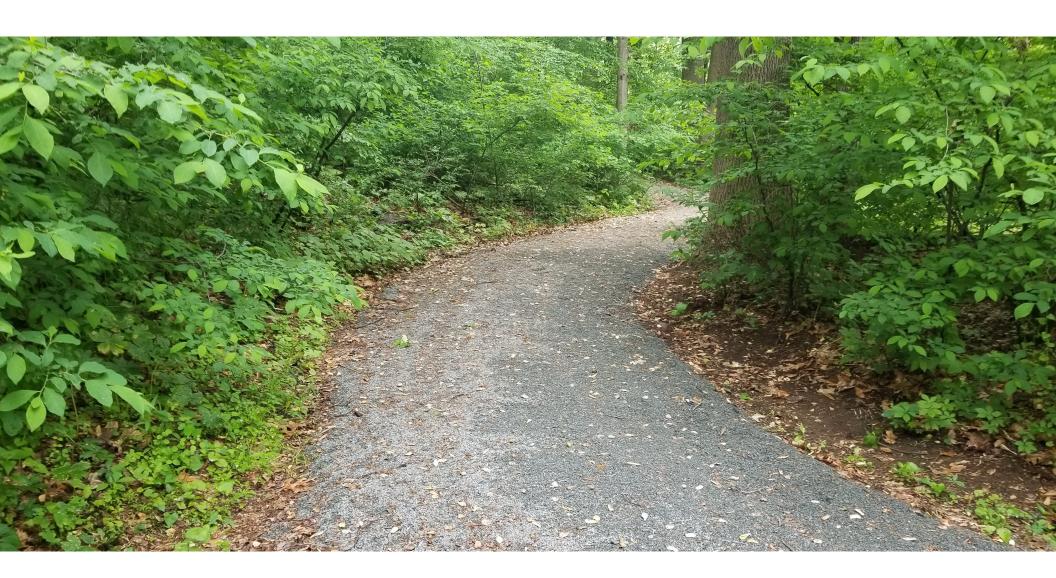






Image Credit: AKRF, Inc.

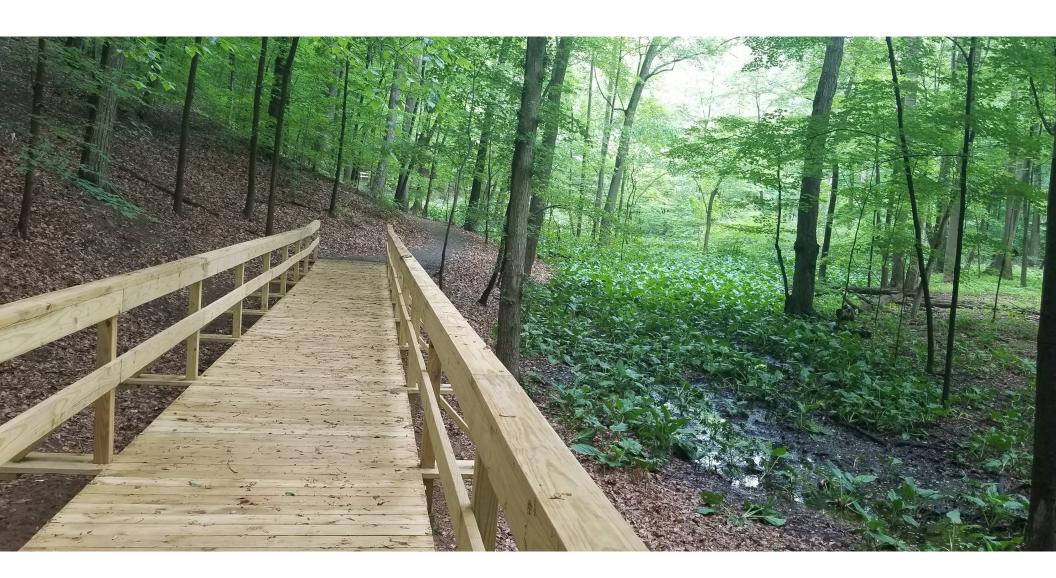






Image Credit: AKRF, Inc.









# Precedent - Ashby Park, Monmouth County



### **Precedent - Ashby Park, Monmouth County**



Image Credit: AKRF, Inc.

### **DOS & DON'TS For Trail Construction**

#### DO

- <u>Use the USDA Forest Service Trail</u>
   <u>Management Tools</u>
- Use different trail classes as appropriate to site conditions and intended use
- Use line diagrams and other drawing conventions to indicate where specific details are intended on the construction drawings
- Provide detailed grading and drainage information on the construction drawings
- Confirm permitting and regulatory requirements
- Confirm surface material and edge conditions align with intended class and trail use
- Use onsite found materials where appropriate to give your project character and a sense of place

#### **DON'T**

- Ignore accessibility guidelines
- Assume only one trail class applies to a given project site
- Assume "typical" details apply everywhere on your specific project
- Clear more vegetation than needed
- Don't use light and loose material on steep slopes or regularly inundated areas
- Forget about stormwater management and drainage controls

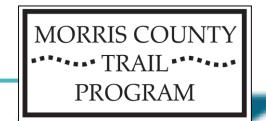
# MORRIS COUNTY TRAIL PROGRAM

### **AGENDA-PART 2**

- Background & Eligibility
- General Requirements
- Funding Categories
- Application Process
- Evaluation Process
- Resources
- Lessons Learned
- Schedule



## Program Funding



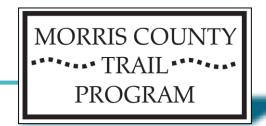
- Source: Preservation Trust Fund, via Voter
  Referendum, approved by 3:1, Nov. 4, 2014, dedicate
  portion of funding toward trail development
- 2023 Estimate:
  - \$1.5 Million (est. 2023 taxes)

## Purpose



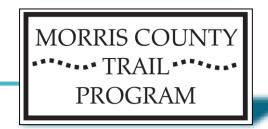
To distribute grants for the design & construction of trails to provide recreational trail use opportunities which benefit the communities and enhance the quality of life for the residents of Morris County.

## Structure



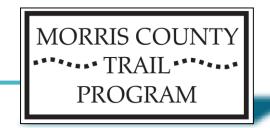
- Collaboration: Morris County Office of Planning & Preservation and Morris County Park Commission
- Advisory Committee: 9 Members including
  - 4 MCPC Recreational Trail Committee
  - 2 MC Office of Planning & Preservation and Planning Board
  - 3 At-Large from the Trail Community

## Structure

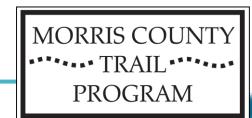


- Program Administration: Morris County Office of Planning
   & Preservation and Morris County Park Commission
- Technical Review: Consulting Professional Engineer

## Structure

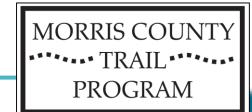


- Program Administration: Morris County Office of Planning
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- Technical Review: Engineering Consultant



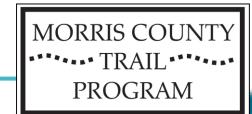
### **ELIGIBILITY**

- All Morris County Municipalities
- Applications Submitted by Municipality
- Projects Managed by a Municipal Representative



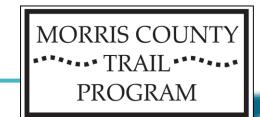
## **GENERAL REQUIREMENTS**

- All trail projects must be constructed on permanently preserved public park land or private land with dedicated easements for recreational use
- License Agreements (County Owned or Muni ROSI)
- 20% Match Required
- Program operates on a reimbursement basis
- Applicants are limited to one application per year



## **GENERAL REQUIREMENTS**

- Applicants must be in good standing with previous grants
- Project Point Municipal Employee
- Applicants must convey clear understanding project
  - Design Scope of Work/Proposal
  - Construction Bid Ready Documents
- All Applicants Must Attend Pre-Application Meeting



### PRE-APPLICATION MEETING

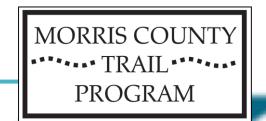
- Required for All Applicants
- Review Program & Application Requirements
- Provide Feedback on Proposed Project
- Guide on Successful Submission
- Consulting Engineer will Attend
- Deadline to Schedule (July 12)



### **FUNDING CATEGORY**

- 1) Design & Permitting
- 2) Construction
  - Minor (Small/Simple)
  - Major (Construction Ready)



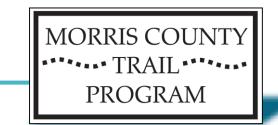


### **DESIGN & PERMITTING**

## **FUNDS CONSTRUCTION DOCUMENTS**

- 1. Final Design Plans & Details
- 2. Bid Specifications
- 3. Engineering Estimate
- 4. Permit Approvals (pending with review verification)

Required Deliverable of Grant



## **DESIGN & PERMITTING**

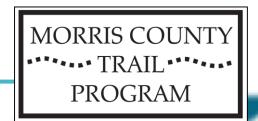
### **DESIGN PROPOSAL & FEE**

Outlining Tasks Needed to Prepare Final Products

- Survey
- Environmental Permitting (wetlands, flood hazard, etc.)
- Stormwater Management
- Structural
- Plans, Specs & Estimates

Basic tasks outlined in Section 6 application instructions

Each project is differentmodify/add to meet the specific needs of your project



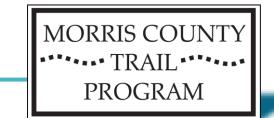
### **DESIGN & PERMITTING**

### PRELIMINARY ASSESSMENT

- Understand Project Needs
- Trail Alignment
- Identify Constraints & Analysis
- Permitting Approach

Early Due Diligence

Application Prompts
Sections 4) Mapping
& 5) Feasibility



## **DESIGN & PERMITTING**

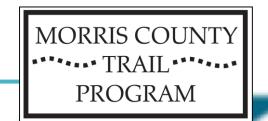
### **Award Limits**

- Minimum = \$5,000 \$10,000
- Maximum = 15% of Estimated Construction Costs

### Schedule

- 2-Years to Complete Projects
- Interim Reviews (30%, 60% & Final)
- Conducted by Consulting Engineer
- Consistent with Awarded Design & Best Practice

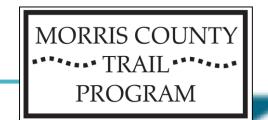
**2024 MORRIS COUNTY TRAIL CONSTRUCTION GRANT PROGRAM** 



# CONSTRUCTION MINOR & MAJOR

### Final Products

- Completed Trail Facility
- Consistent with Awarded Design & Best Practice

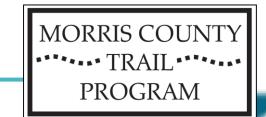


# CONSTRUCTION MINOR

Criteria for Eligibility

- 1. Pre-Application
- 2. Costs \$70k & Under
- 3. Length is 1-mile or Less
- 4. Natural Surface
- 5. Slopes 8% or Under

- 6. Minimal Number of Major Features (walls, bridges, etc.)
- 7. Minimal or no Agency Reviews Required

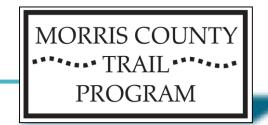


# CONSTRUCTION MINOR & MAJOR

### **Award Limits**

- Min \$5,000 \$10,000
- Minor = Max of \$70,000
- Major = Max of 60% of funding available

## Project Type



NEW CONSTRUCTION – motorized & non-motorized (various types)

TRAIL ENHANCEMENT – improvements to existing trails to accommodate increased volume and/or make ADA compliant.

## **New Construction**

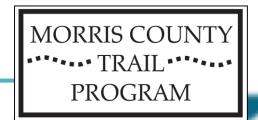






**2024 MORRIS COUNTY TRAIL CONSTRUCTION GRANT PROGRAM** 

## Trail Enhancement MORRIS COUNTY



- Trail Enhancement improvements to existing trails to accommodate increased volume and/or make ADA compliant.
  - Improvement to Design (i.e. width)
  - Change in Surface (i.e. dirt to asphalt)
  - > Deferred maintenance not eligible.
- Documentation Required
  - Existing Conditions Maps/Photos

# Trail Enhancement MORRIS COUNTY TRAIL. TRAIL.







**2024 MORRIS COUNTY TRAIL CONSTRUCTION GRANT PROGRAM** 

# Trail Enhancement MORRIS COUNTY TRAIL TRAIL







**2024 MORRIS COU** 



- 1. LETTER OF INTENT (Friday June 28)
- Application Requires
  Resolution of Support 2. APPLICATION (Wednesday July 31)

### Website:

Trail Construction Grant Program – Morris County, NJ (morriscountynj.gov)

2024 MORRIS COUNTY TRAIL CONSTRUCTION GRANT PROGRAM

### **Letter of Intent**

Same for Design & Permitting & Construction

- Verify Ownership
- Parcel Map (Block/Lot & Preliminary Trail Alignment)
- Early Look-Project Type & Cost
- Mayor's Signature

	Type of Ownership			Block	Lot	Permanently Preserved Public Parkland	Name of Owner
PARCEL NO.1	Fee Simple	Easement	License			□Yes □No	
PARCEL NO. 2	Fee Simple	Easement	License			□Yes □No	
PARCEL NO. 3	Fee Simple	Easement	License			□Yes □No	
PARCEL NO. 4	Fee Simple	Easement	License	1		□Yes □No	
PARCEL NO. 5	Fee Simple	Easement	License			□Yes □No	
PARCEL NO. 6	Fee Simple	Easement	License			□Yes □No	

#### 7) PROJECT MA

Provide a project map that shows the proposed trail location along with parcel information including block and lot fo all of the parcels required to complete the project. Parcel information shall also be listed separately in the chart above.

#### 8) ESTIMATED PROJECT COSTS:

CHOOSE ONE: Provide <u>ESTIMATED</u> project costs for either Design or Construction funding category below. Include matching funds and anticipated requested grant amount.

DESIGN & PERMITTING	AMOUNT		
TOTAL DESIGN FEE	\$		
MATCHING FUNDS (20% Min.)	-\$		
AMOUNT OF REQUESTED GRANT	\$		

Subtract matching funds from project total to calculate the requested grant amount

CONSTRUCTION	AMOUNT
TOTAL CONSTRUCTION COSTS	\$
MATCHING FUNDS (20% Min.)	-\$
AMOUNT OF REQUESTED GRANT	<u>\$</u>

Subtract matching funds from project total to calculate ti requested grant amount

#### SIGNATURE

Mayor's Signature (required)

Date

Due Friday June 28, 2024 at 4:00 PM



### **DESIGN & PERMITTING or CONSTRUCTION**

- Application (fillable form for submission)
- Instructions
- Checklist

### Website:

Trail Construction Grant Program – Morris County, NJ (morriscountynj.gov)

**2024 MORRIS COUNTY TRAIL CONSTRUCTION GRANT PROGRAM** 

## Application Process MORRIS COUNTY TRAIL TO TRAIL



### **DESIGN & PERMITTING**

## Reflects/Conveys

- Feasibility Assessment
- Project Needs
- Proposal reflects tasks necessary to prepare required end product -Construction Documents & Permitting

## **Final Products**

- Construction Documents
  - 1. Final Design Plans
  - 2. Bid Specifications
  - 3. Engineering Estimate
  - 4. Permit Approvals

## Application Process MORRIS COUNTY TRAIL TRAIL TRAIL



### CONSTRUCTION

## Reflects/Conveys

- Construction Readiness
- Completed Construction Documents
- Permits (pending with verification of review)
- Sound Practice

### **Final Products**

- Operational Trail Facility
- Maintain for 20-Years

## 2024 APPLICATION

### **DESIGN**

1) APPLICANT INFORMATION & SIGNATURES 2) PROJECT CATEGORY & TYPE 3) PROJECT DESCRIPTION 4) PROJECT MAPS & SITE PHOTOS 5) PROJECT FEASIBILITY 6) DESIGN PROPOSAL, FEE & SCHEDULE 7) PROJECT COSTS, MATCH & REQUESTED GRANT 8) PRELIMINARY CONSTRUCTION COST ESTIMATE 9) FUNDING STRATEGY 10) TRAIL DESIGN INTENT **Requires Resolution** 11) SUPPORT DOCUMENTATION

## **CONSTRUCTION**

1) APPLICANT INFORMATION & SIGNATURES 2) PROJECT CATEGORY & TYPE 3) PROJECT DESCRIPTION 4) PROJECT MAPS & SITE PHOTOS 5) PROJECT READINESS 6) CONSTRUCTION DOCUMENTS 7) CONSTRUCTION COSTS, MATCH & REQUESTED GRANT 8) FUNDING STRATEGY 9) TRAIL DESIGN INTENT **Requires Resolution** 

10) SUPPORT DOCUMENTATION

# Application Process MORRIS COUNTY TRAIL. TRAIL.

# **PROGRAM**

## **PROJECT DESCRIPTION**

- **APPLICANT INFORMATION & SIGNATURES**
- PROJECT TYPE
- PROJECT DESCRIPTION

#### REQUIRED INFORMATION

- Description of project goals and objectives
- Accessibility standards used
- Provides access to major destinations such as significant natural, cultural or historic features
- Accommodates multiple trail user types
- Connects with existing trail network (local, regional, State and/or Federal)
- Provides logical terminus
- Consistent with short and long-term planning goals and municipal, County or State initiatives
- Project is of regional significance
- Demand (TRAIL ENHANCEMENT ONLY):



IORRIS CANA

across the heart of Moris Coursy with many Greenway sites for you to visit. And addition, the map below includes a few nearby locations in Sussex and War includes a few nearby locations in Sussex and War includes a few nearby locations in Sussex and War includes a few nearby locations in Sussex and War includes a few nearby locations in Sussex and War includes a few nearby locations in Sussex and War includes a few nearby locations are not sometimes when the sum of the ing districts and iron mine railroads that reached up into hilly areas where the canal couldn't go. Each of

ren Counties that shouldn't be missed. Many Morris County towns like Boonton, Rockaway and Wharton drive-to destinations that are easy to find and have lots are also linked to the story of the canal as well as min-

tours and activities. You will





# Application Process MORRIS COUNTY TRAIL. TRAIL.



## **PROJECT MAPS & SITE PHOTOS**

#### 4) PROJECT MAPS & SITE PHOTOS

#### REQUIRED INFORMATION

- a) Project Location Map (in color)
- b) NJDEP GeoWeb Database Map using Bureau of GIS (nj.gov)
- c) National Wetlands Inventory (using Natl. Wetlands Inventory usgs.gov)
- d) Project Location Photos min. 6 w/captions

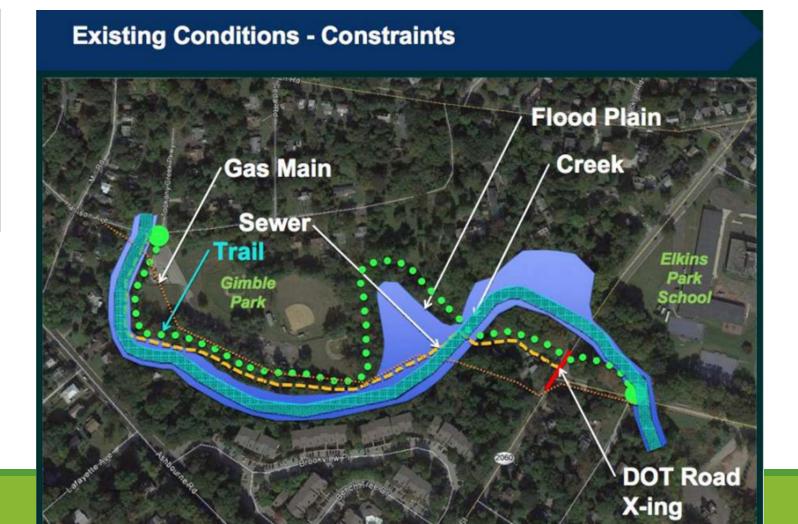
### Project Map Identify:

Preliminary Trail Alignment

Loantaka Brook Reservation

- Obstacles & Constraints
- **Environmental Features**
- Video Optional





# Application Process MORRIS COUNTY TRAIL TRAIL

# **PROGRAM**

### **PROJECT MAPS & SITE PHOTOS**

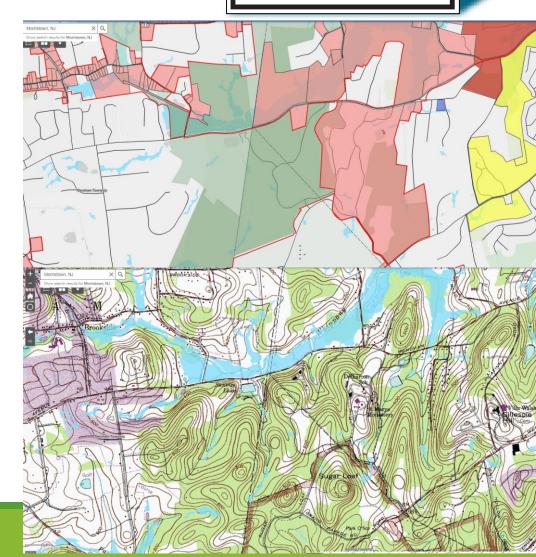
4) PROJECT MAPS & SITE PHOTOS

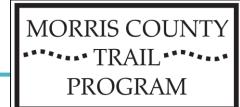
REQUIRED INFORMATION

- b) NJDEP GeoWeb Database Map Using Bureau of GIS (nj.gov) as a resource, create a map of the project location and immediate surrounds. Include relevant data layers such as historic, environmental, natural and/or cultural resource that may impact the design and/or construction of the proposed trail project.
- National Wetlands Inventory Using National Wetlands Inventory (usgs.gov) as a resource, create a map of the project location and immediate surrounds to show designated wetland and riparian areas. Include the proposed trail on the map.
- d) Project Location Photos Provide a minimum of 6 photos (with captions) highlighting existing features of the project location as described in Section 3. Include a key sheet noting specific location of each photo.

https://www.nj.gov/dep/gis/geowebsplash.htm

https://tinyurl.com/5n84aap8



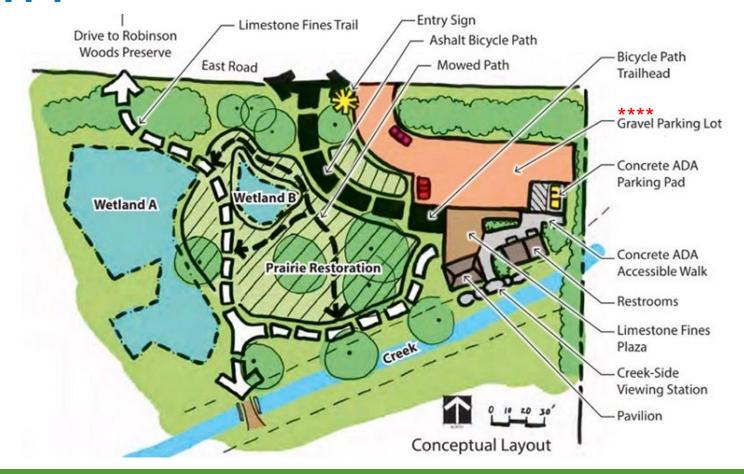


### **PROJECT FEASIBILITY**

#### **PROJECT FEASIBILITY**

#### REQUIRED INFORMATION

- a) Will project impact streams, rivers, lakes, etc.?
  - i. If yes, is this an area regulated by NJDEP?
- b) Will project be built in area of slopes exceeding 12%?
  - i. If yes, identify areas of steep slopes (12% or above) within the project area.
- c) Are there additional existing environmental constraints located in the project area not listed above?
- d) What is the proposed square footage of the proposed trail?
- e) Separate from the trail, provide the estimated square feet of the proposed developed areas such as parking, trailheads, etc.
  - Does the combined total of items d & e. (above) exceed ¼ acre?
  - ii. If yes, does the design proposal in Section 6 include a task for stormwater management?
  - iii. If no, explain generally how drainage will be handled.
- f) Identify all permits anticipated to complete the design of the proposed trail project.





## **DESIGN PROPOSAL, FEE & SCHEDULE**

#### Tree Location Survey

FPA will perform a tree location survey in the area immediately adjacent to the proposed pathway to determine if trees will need to be removed to accommodate the proposed pathway layout. Tree will be located by our surveyor including there species and approximately diameter.

#### **Design Documents**

#### Concept Plan Preparation

FPA will prepare a conceptual layout plan illustrating the entrance from Tempe Wick Road, parking layout, and the trails that will lead up to Dos Passos Pond. This plan will utilize the base topographic survey to be obtained by our office and readily available existing conditions mapping that will demonstrate environmental concerns and eventual NJDEP permitting.

#### **Environmental Permitting**

This task will include all the environmental services including research, correspondence, and reports as well as all the engineering design tasks to prepare necessary plans, calculations, application forms, and reports for the project in accordance with the NJDEP requirements in order to obtain the Flood Hazard Area and Freshwater Wetlands permits.

#### A. Wetlands Evaluation

One of FPAs New Jersey certified wetland experts will visit the property to perform an evaluation of the anticipated area of disturbance and surrounding areas. The limit of freshwater wetlands and waters of the U.S. (State Open Waters) will be identified in the field, if any. A review of the NJDEP GeoWeb mapping indicates that there are wetlands within the area of the project associated with the C-1 stream that traverses the site, but this will need to be verified by the NJDEP.

#### B. Flood Hazard Area Verification

The Passaic River traverses the property in the vicinity or the proposed improvements and the existing pond. The Passaic River has been studied to an area just west of Dos Passos Pond and has an influence on the area of the proposed improvements. In addition to the wetlands, the Passaic River is designated a C-1 stream which has a 300' wide riparian buffer associated with it. We will utilize the information proved by the study for any flood elevation that may be necessary for the project. It is not anticipated that a flood study or flood calculations will be required.

#### C. NJDEP Preapplication Meeting

Once the conceptual plan is prepared, FPA will prepare an application to the NJDEP requesting a Preapplication Meeting. The purpose of this meeting is to establish the appropriate permits that will need to be obtained for the project.

## **Design Proposal/Services**

(Minimum Tasks-Adjust for Project Specific Needs)

- Survey
- **Environmental Permitting**
- Stormwater Management
- Structural
- **Construction Documents**
- **Bid Specifications**
- Final Engineers Cost Estimate



## **DESIGN PROPOSAL, FEE & SCHEDULE**

6)	DESIGN PROPOSAL, FEE & SCHEDULE
	REQUIRED INFORMATION
a)	Design Proposal
b)	Design Fee
c)	Design Schedule

### **Not Acceptable**

Total Design Fee = \$ 42,601.35

- Surveying = \$7,500.00
- Wetlands Expert = \$ 12,000.00
- Engineering Fees = \$23,101.35

## **Design Fee**

- Task & Hourly Breakdown
- Line Item & Lump Sum Not Accepted

## **Design Schedule**

- 2-Years to Complete
- Extensions Available

# Application Process MORRIS COUNTY TRAIL TRAIL

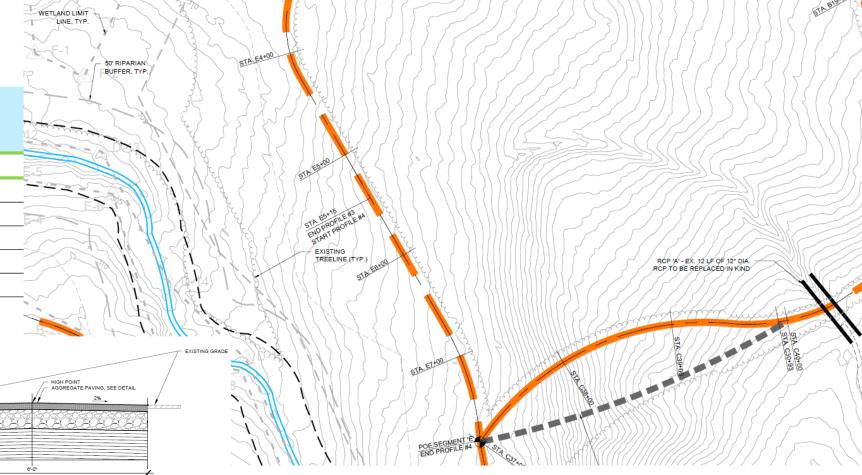
**PROGRAM** 

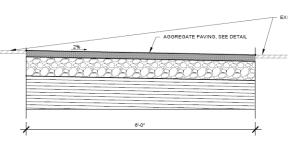
## **CONSTRUCTION DOCUMENTS**

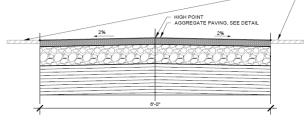
### **CONSTRUCTION DOCUMENTS**

### REQUIRED INFORMATION

- Final Design Plans
- **Specifications**
- Engineer's Construction Cost Estimate
- Permit Approvals
- Construction Schedule







6' AGGREGATE 2% CROWN PROFILE

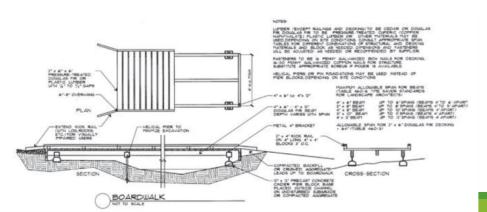
# Application Process MORRIS COUNTY TRAIL. TRAIL.

## **CONSTRUCTION DOCUMENTS**

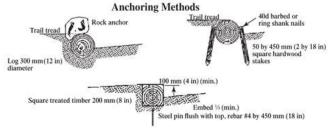
### **CONSTRUCTION DOCUMENTS**

### REQUIRED INFORMATION

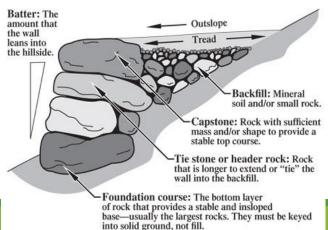
- Final Design Plans
- **Specifications**
- Engineer's Construction Cost Estimate
- Permit Approvals
- Construction Schedule



## Log or Treated Timber Waterbar and Anchors Top of waterbar is 150 mm (12 in) above surface on upgrade side



### **Rock Retaining Wall Terminology**





**PROGRAM** 

## **CONSTRUCTION DOCUMENTS**

### **CONSTRUCTION DOCUMENTS**

### REQUIRED INFORMATION

- Final Design Plans
- Specifications
- Engineer's Construction Cost Estimate
- Permit Approvals
- Construction Schedule

				UN	IT	QUA	1111
	TEM #	-	CRIPTION	L	.5.		1
PEC	#1	CI	EARING SITE, SECTION "A"	1	.5.		1
201	2	+	STE SECTION B & C	1	C.Y.	1	100
	3		" ROAD STONE INSTALLED (IF AND WHERE DIRECTED)	-	NIT	+	2
302 606	4	15	TEEL FOOTBRIDGE, 5' WIDE	+	LF.		650
601	5	15	OUBLE-WALL PIPED DURING STONE	1			
			AND WHERE DIRECTED DOWN WALKWAY EXCAVATION)  STONE WALKWAY, 5' WIDE - 6" DGA, 2"  STONE DUST	+	5.Y.		1260
606	6				UNI	r	6
612	+	7	SIGN, GUIDE, FURNISHED AND INSTALLE ON SIGN POST	-	UNI	T	12
0.2	1		WERS FURNISHED		UN	"	
612		8	AND INSTALLED TOPSOIL 4"		5.	Y	756
804	4	9	TOPSOILING, SCREENED TOTAL THICK (IF AND WHERE DIRECTED)	ND/	5	Υ.	756
80	16	10	FERTILIZING & SEEDING (MEADOW A OR WILDFLOWER MIX) AND STRAW A MULCH (IF AND WHERE DIRECTED	AND			

r's Cost Estimate the Frelinghuysen Arboretum act No. 65-19 nship, Morris County

1					
١	iption		Unit Price		Total
١		\$	32,000.00	\$	32,000.00
_	ch	\$	1,000.00	\$	2,000.00
_	rricades, cones, flags, etc.	\$	1,000.00	\$	1,000.00
	traffic directors	\$	10,000.00	\$	10,000.00
	7	\$	1.00	\$	8,500.00
_	ar foot	\$	4.00	\$	4,600.00
	per LF	\$	10.00	\$	70,000.00
_	directed	\$	40.00	\$	20,000.00
	ck), stockpile on site, per	\$	20.00	\$	15,000.00
	o thew & existing trail to be	\$	12.00	\$	56,400.00
g	(new & existing trail to be	Ś	12.00	Ś	51.600.00

$\underline{4300}$ Earthwork - fine grading (new & existing trail to be resurfaced per specs), per SY	\$	12.00	\$	51,600.00
3000 Milling (2" depth), per SY	\$	1.50	\$	4,500.00
450 Full depth asphalt removal, per SY	\$	12.00	\$	5,400.00
245 Paving - hot mix asphalt I-5 (1.5" depth) per ton	\$	200.00	\$	49,000.00
$\underline{37}$ Paving - hot mix asphalt I-5 (1.5" depth) per ton, if and where directed	\$	180.00	\$	6,660.00
	3000 Milling (2" depth), per SY  450 Full depth asphalt removal, per SY  245 Paving - hot mix asphalt I-5 (1.5" depth) per ton	3000 Milling (2" depth), per SY \$ 450 Full depth asphalt removal, per SY \$ 245 Paving - hot mix asphalt I-5 (1.5" depth) per ton \$	3000 Milling (2" depth), per SY       \$ 1.50         450 Full depth asphalt removal, per SY       \$ 12.00         245 Paving - hot mix asphalt I-5 (1.5" depth) per ton       \$ 200.00	3000 Milling (2" depth), per SY       \$ 1.50 \$         450 Full depth asphalt removal, per SY       \$ 12.00 \$         245 Paving - hot mix asphalt I-5 (1.5" depth) per ton       \$ 200.00 \$



## PRELIMINARY CONSTRUCTION

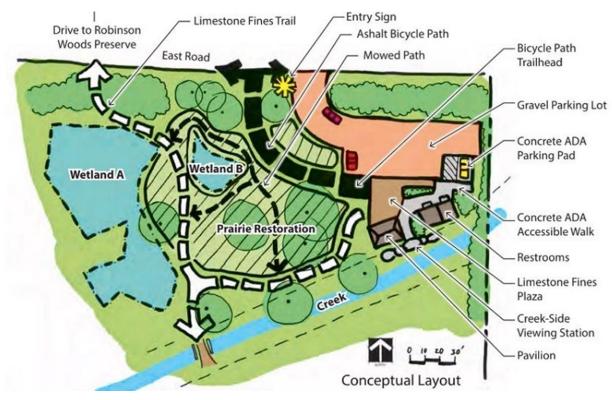
**COSTS ESTIMATES** 

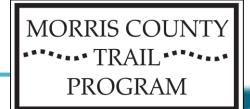
PRELIMINARY CONSTRUCTION COST

REQUIRED INFORMATION

a) Preliminary Construction Cost Est







### **FUNDING STRATEGY**

### FUNDING STRATEGY

### REQUIRED INFORMATION

- Matching Funds (20% minimum)
- i. Cash
- ii. Other Grants
- iii. In-kind Contribution
- iv. Indirect Services
- b) Long-Term Funding

- a) Matching Funds (20% minimum) Provide a description of how a minimum of 20% matching funds will be achieved. Multiple sources may apply.
  - If using cash, describe what specific funding source will be used.
  - If other grant resources are being used to fulfill the required match, applicants must provide the name of the grant and awarding agency, along with a copy of the award letter verifying the amount of award with this application.
- If using in-kind services to fulfill required match, applicants must provide detailed description of services to be provided, manpower allocated and breakdown of associated costs. An "Evidence of Resource Commitment" letter must also be submitted with this application authorizing staff time and resources to be dedicated, as requested in Section 11b.
- If using indirect costs to fulfill required match, applicants must include a copy of the approved agreement, where the municipality authorizes specific professional services to be performed for the project, including associated fees.
- Long-Term Funding provide a brief description of the anticipated strategy to fund the construction costs of the project being submitted with this application.

# Application Process MORRIS COUNTY TRAIL. TRAIL.

# **PROGRAM**

## TRAIL DESIGN INTENT

### 10) TRAIL DESIGN INTENT

### REQUIRED INFORMATION

- Trail Class
- Designated Use
- Surface Type
- **Design Features**
- **Design Standards**

Who are you designing/building trail for?

### . Trail Class - select all that apply and include length

	CLASS TYPE	DESCRIPTION	LENGTH
			(feet/mile)
	Trail Class 1:	Trail Class 1: Minimally Developed	
	Trail Class 2:	Moderately Developed	
	Trail Class 3:	Developed	
	Trail Class 4: Highly Developed		
	Trail Class 5: Fully Developed		

#### Designated Use - select all that apply

NON-MOTORIZED	MOTORIZED
Pedestrian/Hiker	Motorized (off-road use)
Biking/Mountain Biking	ATV (all-terrain vehicle or quad)
Equestrian	Off Highway Vehicle (OHV-jeeps, etc.)
Mixed Use	

### c. Surface Type - select all that apply

IMPERVIO	OUS SURFACE	POROUS	SURFACE
TYPE	LENGTH (feet/mile)	TYPE	LENGTH (feet/mile)
Concrete		Wood Chips/Mulch	
Asphalt		Gravel/Stone Dust	
Boardwalk		Native Soil	
Other		Porous Pavement	

#### d. Design Features

FEATUR	E
Trail Width (inches/feet)	
Target Grade (percent)	0.00%
Clearing Width (feet/inches)	
Shoulder Width (feet/inches)	





## TRAIL DESIGN INTENT



### **Trail Design Parameters** Hiker/Pedestrian (FSH 2309.18, Section 23.11, Exhibit 01)

Design Parameters are technical guidelines for the survey, design, construction, maintenance, and assessment of National Forest System trails. based on their Designed Use and Trail Class and consistent with their management intent. Local deviations from any Design Parameter may be established based on trail-specific conditions, topography, or other factors, provided that the deviations are consistent with the general intent of the applicable Trail Class.

10)	TRAIL DESIGN INTENT	De HII
	REQUIRED INFORMATION	Tre
a)	Trail Class	
b)	Designated Use	
c)	Surface Type	
d)	Design Features	
e)	Design Standards	De

What design standards are being used?

Designed HIKER/PE	Use DESTRIAN	Trail Class 1	Trail Class 2	Trail Class 32	Trail Class 42	Trail Class 52
Design Tread Width	Wilderness (Single Lane)	0" – 12"	6" – 18"	12" – 24" Exception: may be 36" – 48" at steep side slopes	18" – 24" Exception: may be 36" – 48" at steep side slopes	Not applicable
_	Non-Wilderness (Single Lane)	0"-12"	6" – 18"	18" – 36"	24" - 60"	36" - 72"
	Non-Wilderness (Double Lane)	36"	36"	36" - 60"	48" - 72"	72" – 120"
	Structures (Minimum Width)	18"	18"	18"	36"	36"
Design Surface <sup>3</sup>	Туре	Native, ungraded May be continuously rough	Native, limited grading May be continuously rough	Native, with some onsite borrow or imported material where needed for stabilization and occasional grading Intermittently rough	Native with improved sections of borrow or imported material, and routine grading Minor roughness	Likely imported material, and routine grading Uniform, firm, and stable
	Protrusions	≤ 24″ Likely common and continuous	≤ 6″ May be common and continuous	≤3" May be common, not continuous	≤ 3" Uncommon, not continuous	No protrusions
	Obstacles (Maximum Height)	24"	14"	10"	8"	No obstacles
Design	Target Grade	5% - 25%	5% - 18%	3% - 12%	2% - 10%	2% - 5%
Grade3	Short Pitch Maximum	40%	35%	25%	15%	5% FSTAG: 5% – 12% <sup>2</sup>
	Maximum Pitch Density	20% – 40% of trail	20% - 30% of trail	10% - 20% of trail	5% – 20% of trail	0% – 5% of trail

Application Process MORRIS COUNTY TRAIL. TRAIL.

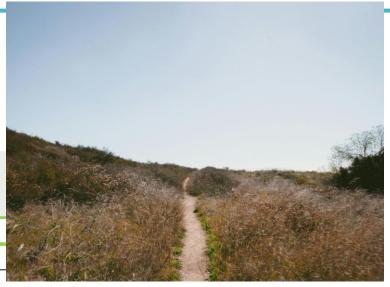
# TRAIL DESIGN INTENT

### 10) TRAIL DESIGN INTENT

### REQUIRED INFORMATION

- a) Trail Class
- b) Designated Use
- c) Surface Type
- d) Design Features
- e) Design Standards

What design standards are being used?









## **SUPPORT DOCUMENTATION**

### 11) SUPPORT DOCUMENTATION

### REQUIRED INFORMATION

- \*\*\*\* a) Governing Body Resolution
  - **Evidence of Resource Commitment**
  - Agency Authorization

**Application Requires** Resolution of Support

- a) Governing Body Resolution Provide a Governing Body Resolution supporting the advancement of the design for the proposed trail project and approval to apply to the Morris County Trail Construction Grant. The Resolution shall include an acknowledgement that the municipality is responsible to provide advanced funding of the entire project, and that the grant will be distributed as a reimbursement upon the satisfactory completion of construction documents. Microsoft Word - Sample Resolution.docx (morriscountynj.gov)
- b) Evidence of Resource Commitment If applicable, provide an "Evidence of Resource Commitment" letter endorsed by an official agent for all groups, agencies, and entities providing in-kind services to complete the project. The letter shall outline what specific services will be provided along with estimated costs associated with these services. This shall be consistent with the information outlined in Section 4 of this application.

This includes letters from managers of internal divisions expected to complete work on the project such as engineers, DPW and/or maintenance crews, etc.

Agency Authorization – If applicable, provide a letter from the agency of ownership confirming approval to allow the proposed trail to cross a public road/public right-of-way.

# Application

# DESIGN & PERMITTING or CONSTRUCTION

- Application (submit)
- Instructions
- Checklist

## Website:

<u>Trail Construction Grant Program –</u>
<u>Morris County, NJ (morriscountynj.gov)</u>

**2024 MORRIS COUNTY TRAIL CONSTRUCTION GRAP** 

### CHECKLIST - 2023 DESIGN APPLICATION

DD	$^{\circ}$	EC	TA	IAB	

#### NAME OF PREPARER:

#### DATE

#### 1) APPLICANT INFORMATION & SIGNATURES

	REQUIRED INFORMATION	COMPLETE	COMMENT
a)	Name of Project	YES	
b)	Municipal Contact Info. & Signature	YES	
c)	Project Designer Contact Info. & Signature	YES	
d)	Mayor's Contact Info. & Signature	YES	_

#### PROJECT TYPE

REQUIRED INFORMATION	COMPLETE	COMMENT
2.1) Major Construction	YES	
a) New Construction – design new trail facility	YES	
b) Trail Enhancement – improve existing trail,		
increase capacity and/or access	YES	

#### 3) PROJECT DESCRIPTION

		REQUIRED INFORMATION	COMPLETE	COMMENT
	a)	Description of project goals and objectives	YES	
	b)	Meets accessibility standards (Title II,	YES	
_		PROWAG, ADA)	TES	
	c)	Provides access to major destinations such as significant natural, cultural or historic features	YES	
	d)	Accommodates multiple trail user types	YES	
	e)	Connects with existing trail network (local,		
		regional, State and/or Federal)	YES	
	f)	Provides logical terminus	YES	
	g)	Consistent with short and long-term planning		
١_		goals and municipal, County or State initiatives	YES	
	h)	Project is of regional significance	YES	
	i)	Demand (TRAIL ENHANCEMENT ONLY):	VEC	
١.		increases capacity and/or ADA access	YES .	

## Resources

## PROGRAM RESOURCES

- Best Practices
- Means & Methods
- Education

## Website:

<u>Trail Construction Grant Program – Morris County, NJ</u> (morriscountynj.gov)

**2024 MORRIS COUNTY TRAIL CONSTRUCTION GRANT PROGRAM** 



Trail Planning, Design & Development Guidelines

Minnesota Department of Natural Resources

This 300-page spiral-bound publication, several year comprehensive "how-to" guidebook for developing a

by Minnesota Department of Natural Resources



NTrail
Planning for Greenways

A Guidebook for

**New Jersey Communities** 

rail Fundamentals

Trail Management Objectives

## 2024 Schedule

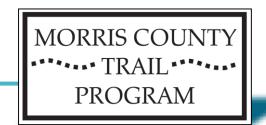


- Pre-Application Meetings: May July 12, 2024
- Letter of Intent: Friday June 28, 2024

**Requires Resolution** 

- Applications Due: Wednesday July 31, 2024 (Full Application)
- Application Review: August September 2024
- Application Review with Committee: Mid to Late September 2024
- Committee Deliberations: October, 2024
- Committee Recommendations: November, 2024
- County Commissioners Announce Awards: December, 2024

# Design Grants



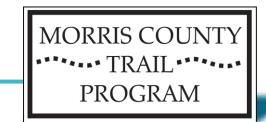
### **DESIGN REVIEW DEADLINE**

### **2024 Construction Funding Cycle**

May 31, 2024 - 60% documents must be delivered to Program Staff for review and comment June 28, 2024 – 100% documents delivered to Program Staff and received final approvals

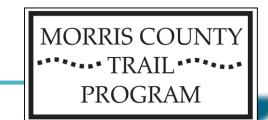
### **2025 Construction Funding Cycle**

**February 7, 2025** – 60% documents must be delivered to Program Staff for review and comment **April 11, 2025** - 100% documents delivered to Program Staff and received final approvals



## **CLOSED/QUIET PERIOD**

- Once Applications Close
- August to December
- > No correspondence unless requested



## **Program Administration**

- Meets basic requirements
- Onus is on applicant for clarity & completeness

## **Technical Review**

- Consulting Engineer
- Summary of Comments/Questions

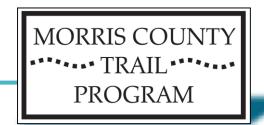


## Applicant Q & A

- Provide response to Technical Review
- Revised materials will be limited

## Closed/Quiet Period

- Once Applications Close
- August to December
- No correspondence unless requested



## **Trail Program Advisory Committee Review**

- Evaluation Criteria (Guidelines)
- Project Readiness & Understanding
- Question & Answer
- Deliberations
- Recommendations to County Commissioners

## 2024 Schedule



- Pre-Application Meetings: May July 12, 2024
- Letter of Intent: Friday June 28, 2024

**Requires Resolution** 

- Applications Due: Wednesday July 31, 2024 (Full Application)
- Application Review: August September 2024
- Application Review with Committee: Mid to Late September 2024
- Committee Deliberations: October, 2024
- Committee Recommendations: November, 2024
- County Commissioners Announce Awards: December, 2024

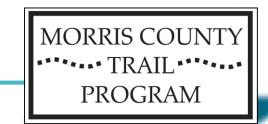
## Lessons Learned



## **Don't Rush Application**

- Complete Feasibility Assessment
- Understand Needs & Costs
- Meet with NJDEP
- More than a Desktop Exercise
- Ask for What Your Project Needs

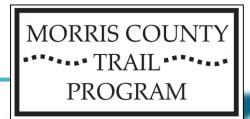
## Lessons Learned



## **Don't Rush Application**

- Design it Right the First Time
- > Find Out Who the Users Are
- No Additional Funds Awarded
- > 20-Year Requirement for Maintenance
- Ask for What Your Project Needs

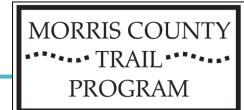
# Application Process MORRIS COUNT TRAIL. TRAIL.



- 1. LETTER OF INTENT (Friday June 30)
- 2. APPLICATION (Friday July 29)

### Website:

<u>Trail Construction Grant Program – Morris County, NJ (morriscountynj.gov)</u>



### **CONTACT:**

Denise Chaplick, **Program Administrator** (973) 326-7605

### **CONTACT:**

Karl Klingener, Special Projects Manager (862) 325-7739

MCTrailGrantProgram@Morrisparks.net

### Website:

Trail Construction Grant Program – Morris County, NJ (morriscountynj.gov)