

FUSS & O'NEILL

Solve better. Go further.



Dover Community Trail, Phase IV

Preferred Alternative Meeting

Nicole Fox, PE and Amy Johnson, PE

Preferred Alternative Meeting Agenda

- > Review Project Background & Process
- > Trail Alignment Alternatives
- > Preferred Trail Alignment
- > Trail Typical Section
- > Preferred Pedestrian Bridge
- > Conceptual Cost Estimate
- > Public Input



Project Team

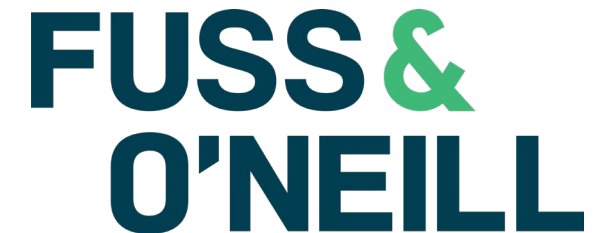
Donna Benton, City of Dover Project Manager

Erin Bassegio, City of Dover Outreach Coordinator

Tom Jameson, NHDOT Project Manager

Nicole Fox, Fuss & O'Neill Project Manager

Amy Johnson, Fuss & O'Neill Project Engineer



Project Background

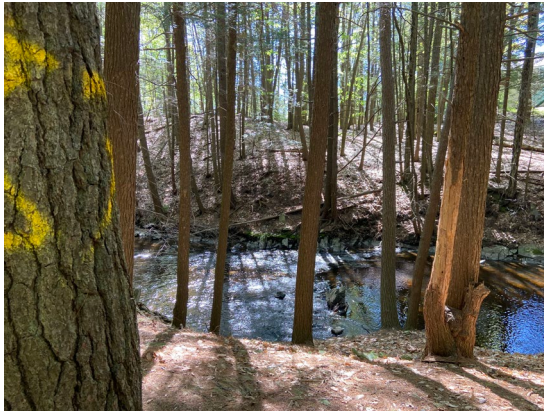
- Local Project Assistance (LPA) Process
 - City of Dover project through NHDOT with federal grant funds (80%) and local match (20%)
- Project Process
 - Engineering Study - Complete
 - Preliminary Plans
 - Construction Plans
 - Environmental Reviews
 - Right-of-Way Agreements
 - Bidding Process
 - Construction



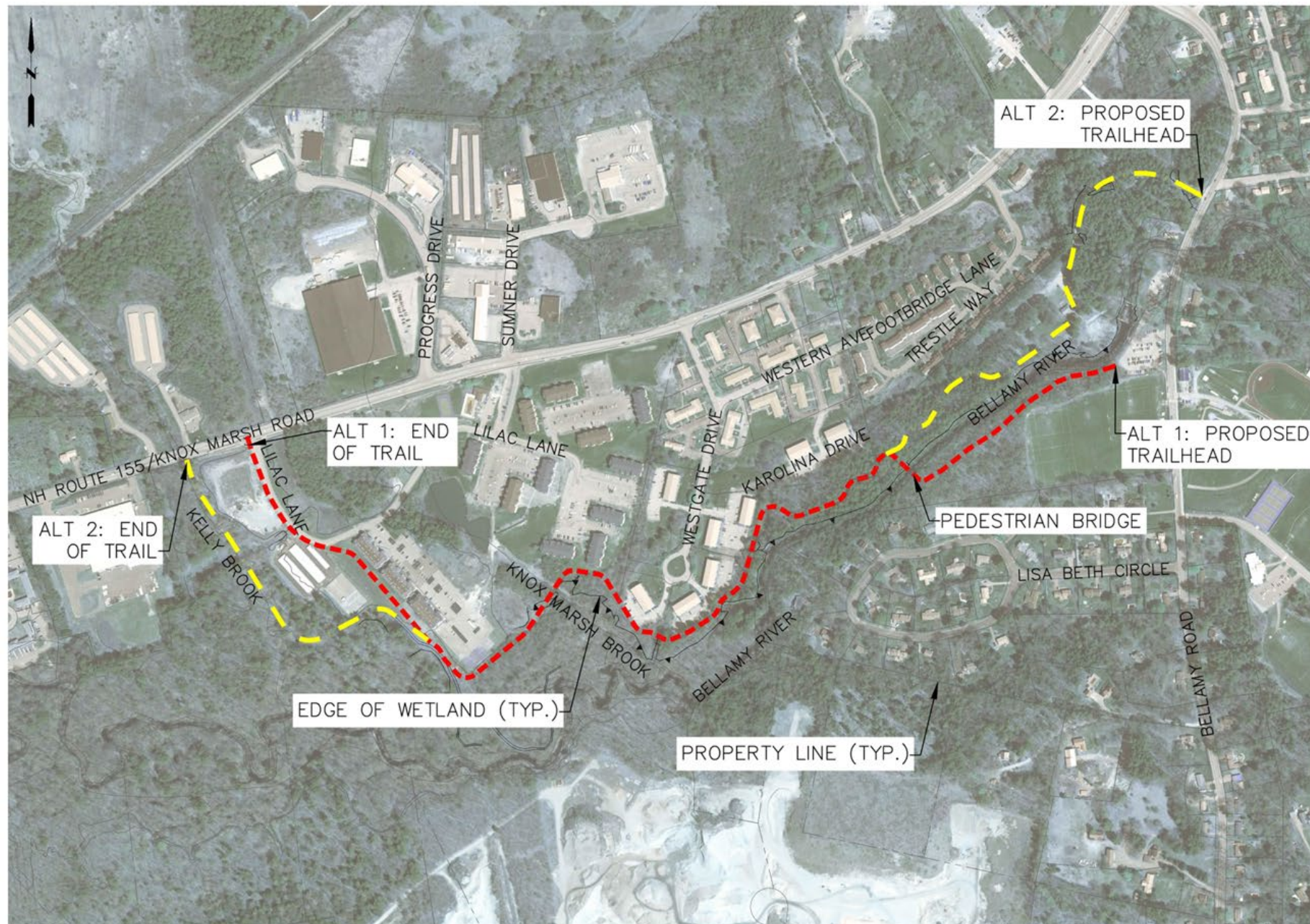
Purpose and Need

The purpose of the project is to construct a trail linking NH 155 through Bellamy Park to Dover High School. The trail will fulfill the need to provide a safe, delineated, and accessible route for:

- Bicyclists and pedestrians to travel between NH 155 and Bellamy Road, with direct access to recreation at Bellamy Park;
- Students to travel from residential neighborhoods to Dover High School;
- Future connectivity to other segments of the Dover Community Trail.



Project Location



SCALE		HORIZ: 1" = 200'	VERT:
DATE:		HORIZ:	VERT:
FUSS & O'NEILL		34 COMMERCIAL STREET MANCHESTER, NEW HAMPSHIRE 03101 603.696.4323	
			
CITY OF DOVER		OVERALL TRAIL LAYOUT	
DOVER COMMUNITY TRAIL PHASE 4		FIG. A	
PROJ. No. 20170299-1		DATE: 04/07/2023	

Alternative 1

- Pros
 - Less expensive
- Cons
 - Safety concerns from disc golf course for cyclists and pedestrians
 - More wetland impacts

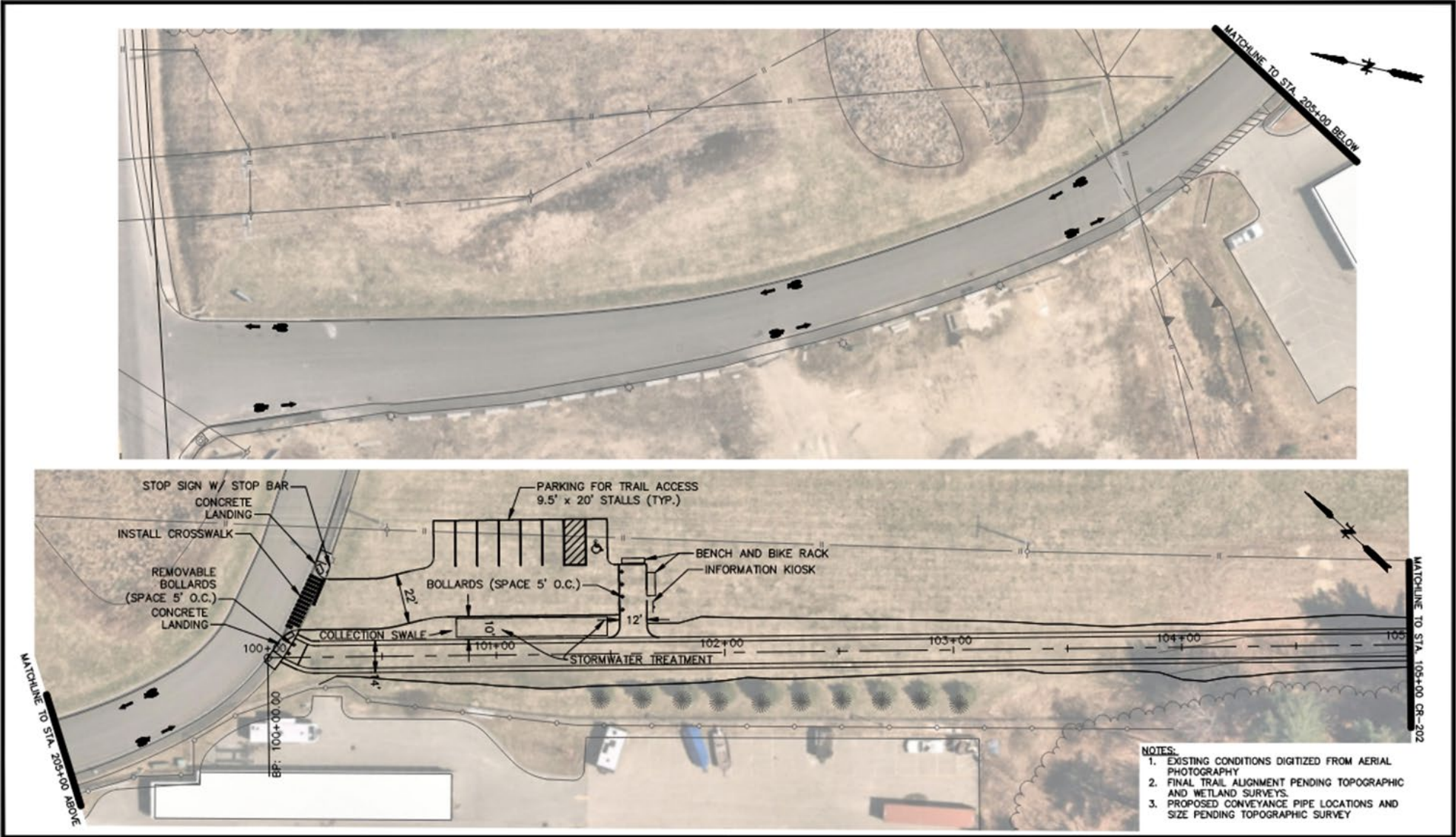


Alternative 2 (Recommended)

- Pros
 - Trail connects directly to Dover High School
 - Pedestrian bridge offers unique perspective of Bellamy River
- Cons
 - More tree clearing
 - Project costs



Proposed Trail Alignment



NO.	DATE	DESCRIPTION	DESIGNED	REVIEWED



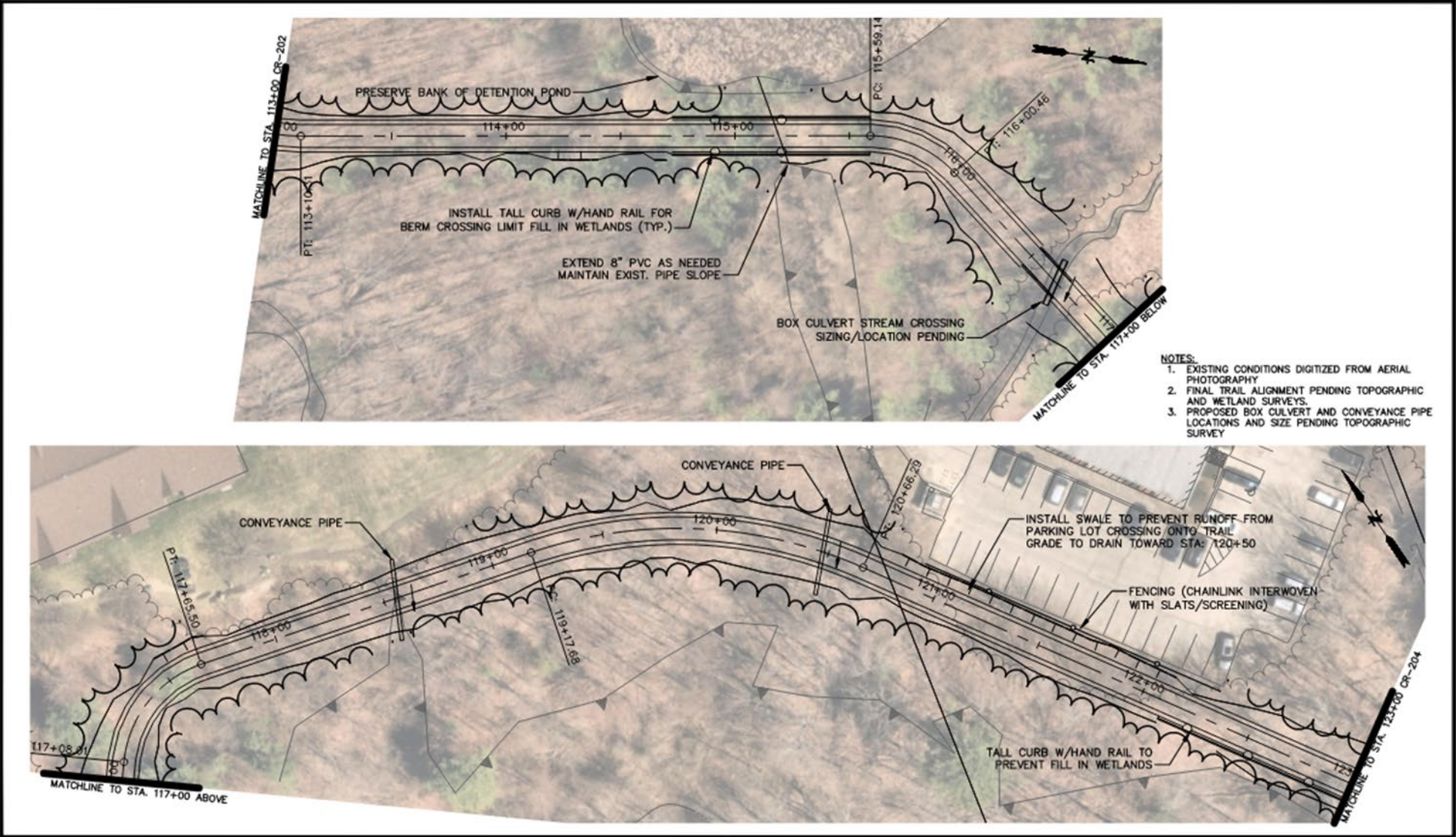
FUSS & O'NEILL

SCALE:	HORIZ. 1" = 40'
VERT. 1" = 40'	
DATE:	NOV. 14, 2023
BY:	WJL, PAB (2023)
CHECKED:	WJL, PAB (2023)
GRAPHIC SCALE	0 20 40

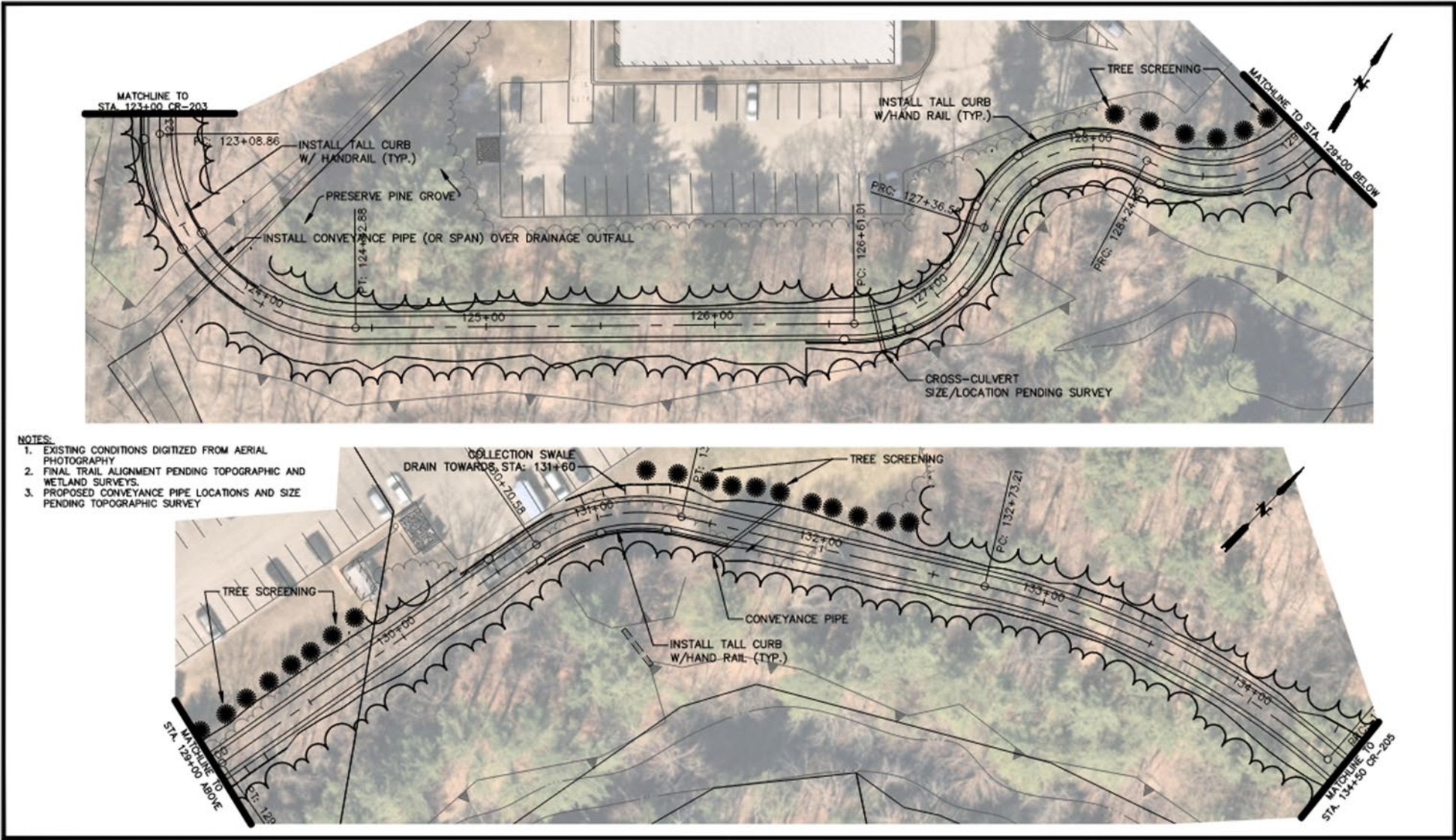
CITY OF DOVER
ALIGNMENT ALTERNATIVE 2
GENERAL PLAN
DOVER COMMUNITY TRAIL
PHASE IV
DOVER NEW HAMPSHIRE

CR-201

Proposed Trail Alignment



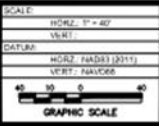
Proposed Trail Alignment



NO.	DATE	DESCRIPTION	DESIGNED	REVIEWED



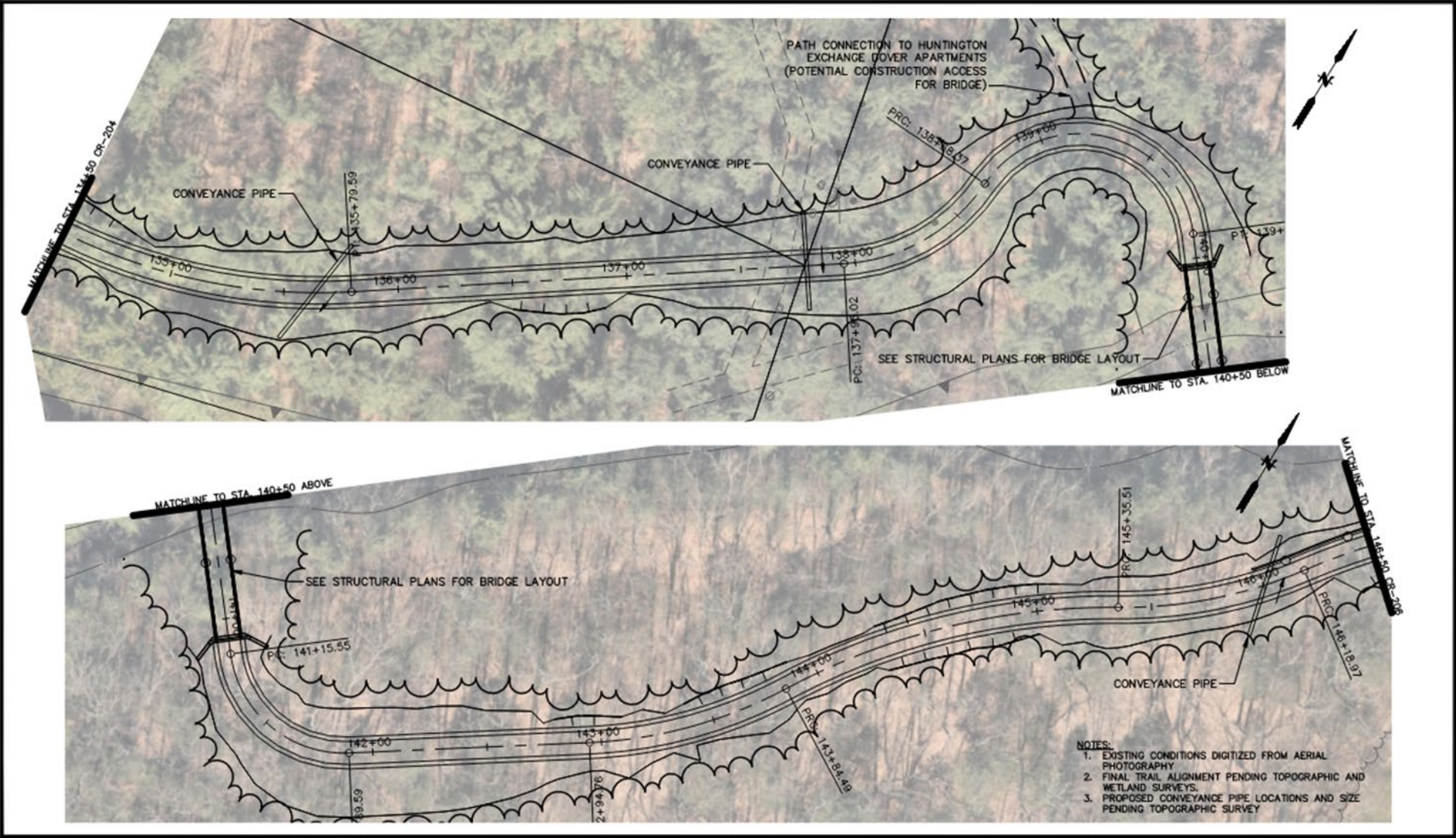
FUSS & O'NEILL



CITY OF DOVER
ALIGNMENT ALTERNATIVE 2
GENERAL PLAN
DOVER COMMUNITY TRAIL
PHASE IV
DOVER NEW HAMPSHIRE

CR-204
DATE: 06/01/2024

Proposed Trail Alignment



NO.	DATE	DESCRIPTION	DESIGNED	REVIEWED



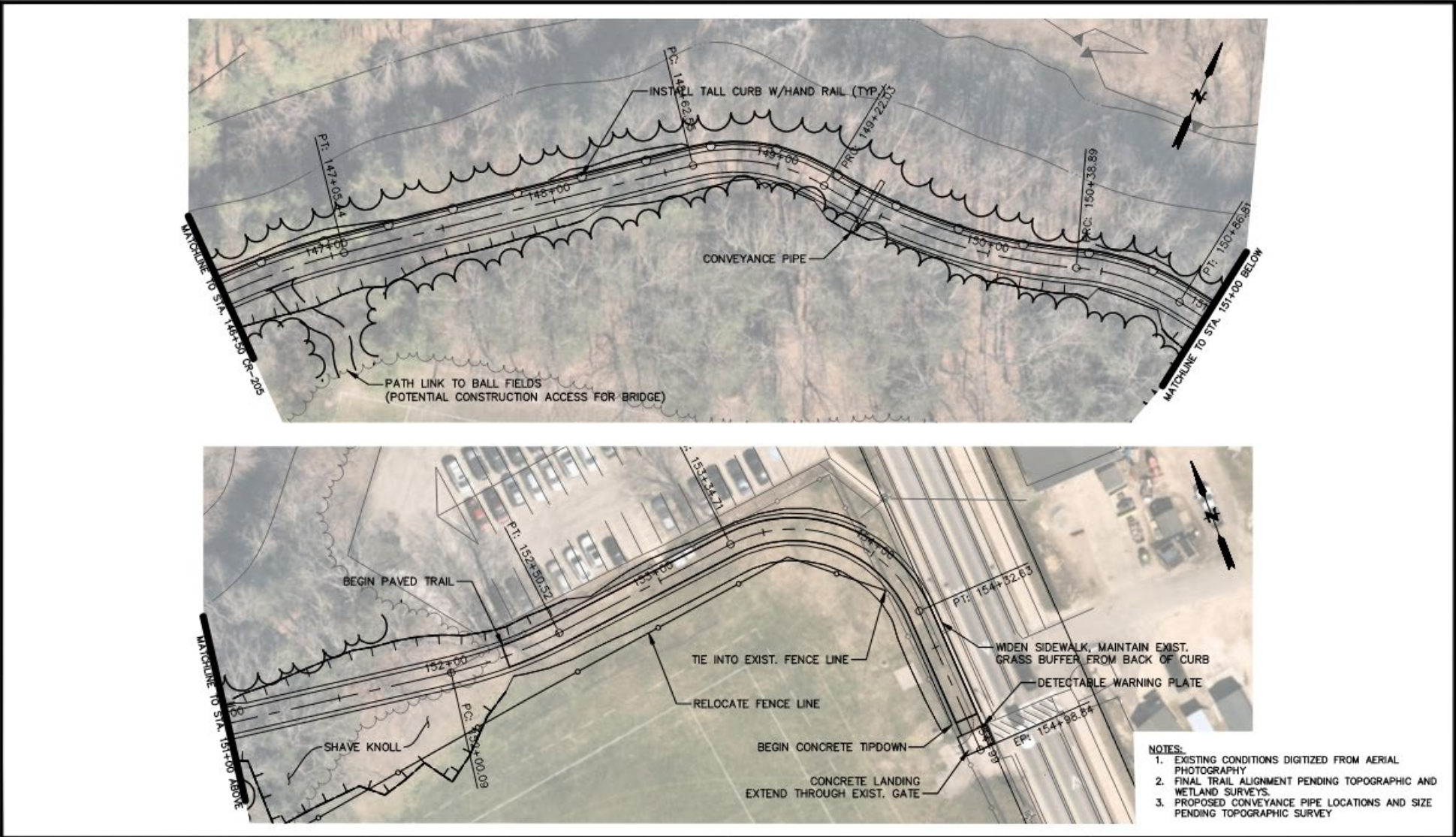
FUSS & O'NEILL

SCALE:	1" = 40'
VERT. SCALE:	1" = 10'
CURVE:	1" = 100'
VERT. CURVE:	1" = 100'
GRAPHIC SCALE	0 20 40

CITY OF DOVER
ALIGNMENT ALTERNATIVE 2
GENERAL PLAN
DOVER COMMUNITY TRAIL
PHASE IV
DOVER NEW HAMPSHIRE

CR-205
DATE: APRIL 2024

Proposed Trail Alignment



- NOTES:
1. EXISTING CONDITIONS DIGITIZED FROM AERIAL PHOTOGRAPHY
 2. FINAL TRAIL ALIGNMENT PENDING TOPOGRAPHIC AND WETLAND SURVEYS.
 3. PROPOSED CONVEYANCE PIPE LOCATIONS AND SIZE PENDING TOPOGRAPHIC SURVEY

NO.	DATE	DESCRIPTION	DESIGNED	REVIEWED



FUSS & O'NEILL

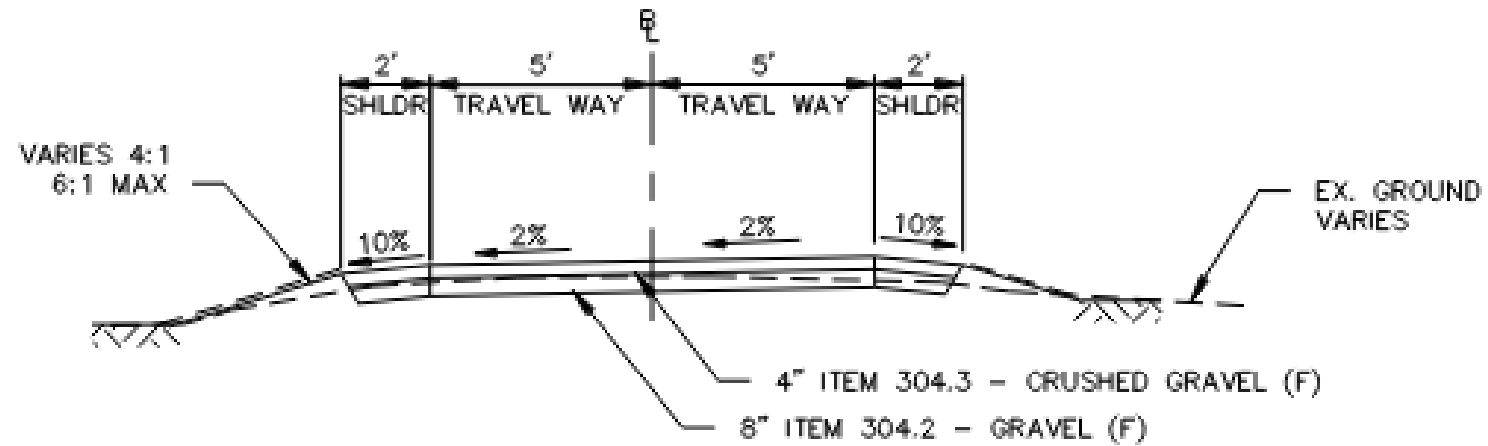
SCALE:
HORIZ.: 1" = 40'
VERT.:
DATE:
HORIZ. BASED (2011)
VERT.: NAVD83
GRAPHIC SCALE
0 20 40

CITY OF DOVER
ALIGNMENT ALTERNATIVE 2
GENERAL PLAN
DOVER COMMUNITY TRAIL
PHASE IV
DOVER NEW HAMPSHIRE

PROJ. No.: 20170394.000
DATE: APRIL 2024
CR-206



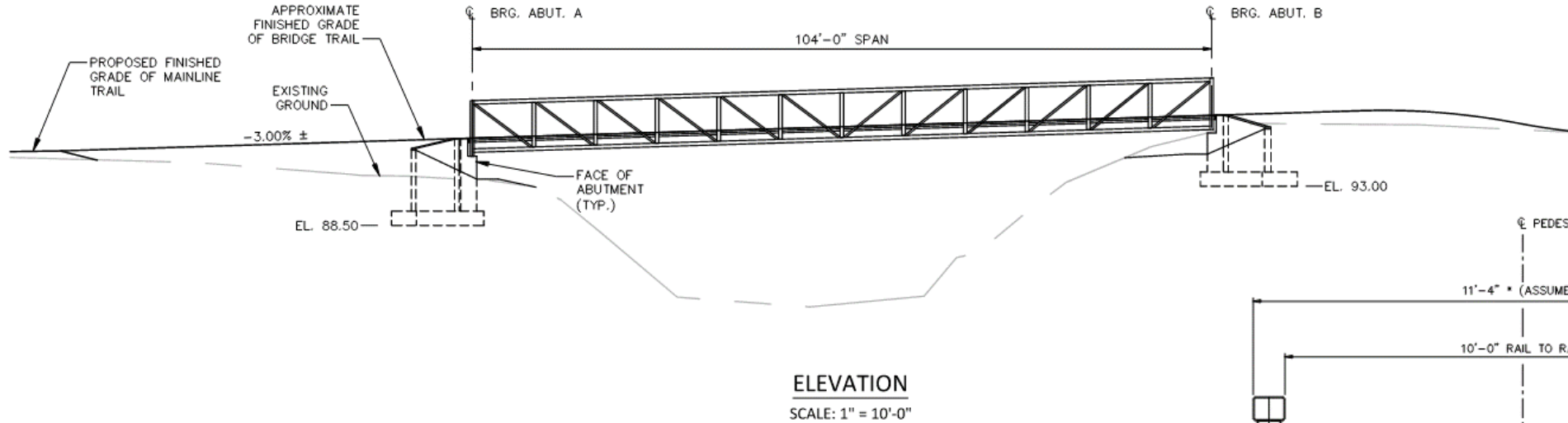
Trail Typical Section



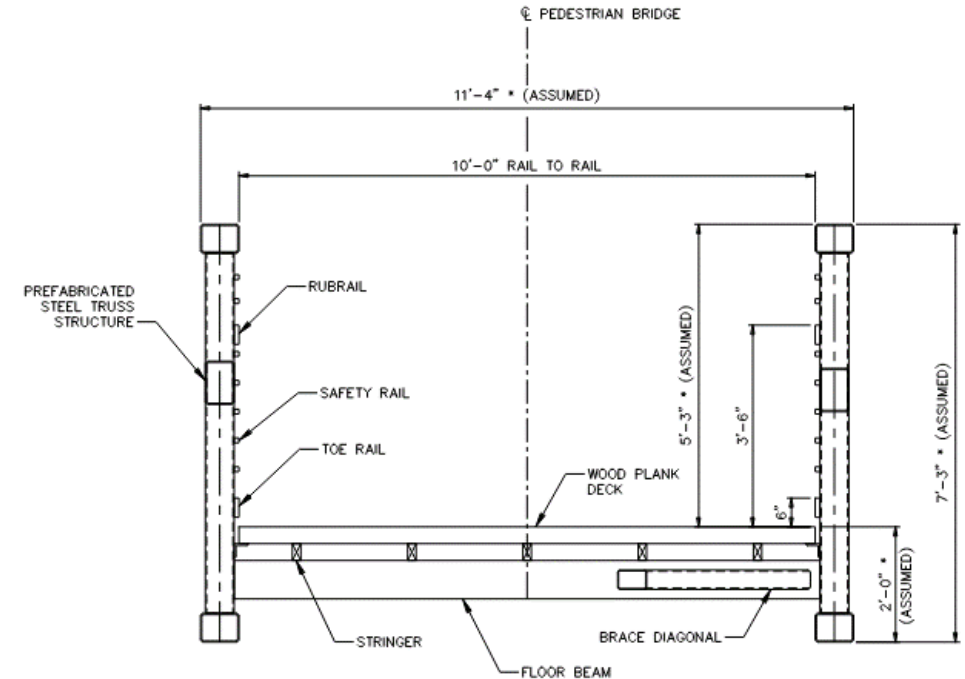
GRAVEL TRAIL TYPICAL SECTION

N.T.S.

Pedestrian Bridge



- Preferred Bridge Design
 - Prefabricated steel through truss with a wood deck
 - 105 ft long at 3% slope



* STEEL TRUSS DIMENSIONS MAY VARY DEPENDING ON SPECIFIC TRUSS SYSTEM USED.

TYPICAL DECK SECTION

SCALE: 3/4" = 1'-0"

Preferred Alternative Cost Estimate

- Trail Construction Subtotal \$1.5M
 - Includes trail, trailhead parking, landscaping, and drainage, including 2 box culverts
- Bridge Construction Subtotal \$600,000
- Design & Construction Engineering Costs \$500,000
- Total Project Cost \$2,600,000 *

*in 2024 dollars

Project Schedule

- Bridge Study – completed October 2023
- Draft Engineering Study – completed April 2024
- Final Engineering Study – complete July 2024
- Additional grant funding needed to include bridge
- Once funded, design, permitting, and ROW anticipated to take 2-3 years
- Construction likely to take one season (Spring to Fall)

Public Input

Contact:

Erin Bassegio

E.Bassegio@dover.nh.gov



**FUSS &
O'NEILL**

Solve better. Go further.