



Reconstruction of Mountain Street

Design Public Hearing

Williamsburg | June 16, 2021 | 7:00 pm

Project File No. 607231



Zoom controls



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- Turn camera on/off



- Ask a question and share comments



- Raise your hand



- If you are unable to access the internet or are having technical problems, please call into the meeting at 877-853-5247, Meeting ID: 885 4507 3036



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3



Participants



Chat



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Interpretation

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Public meeting notes and procedures

Notification of recording

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Other important notes

- Please note that you will be automatically muted upon entering the meeting. The meeting will be open to questions and answers at the end of the presentation.
- Please state your name prior to asking a question or commenting.

IT questions throughout this presentation

- Please call or email Patrick Nestor, MassDOT, 617-680-6092 or Patrick.Nestor@dot.state.ma.us

Agenda

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- 07 Alternatives
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- 09 Right of Way Discussion
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Introduction

- MassDOT
 - Greg Frazier (Project Manager)
 - Mark Moore (District 1 Project Development Engineer)
 - Erik Bilik (District Projects Engineer)
 - Nikki Peters (Right of Way Bureau)
 - Pamela Marquis (Right of Way Compliance Manager)
 - Patrick Nester (Producer/Facilitator)
- Design Consultant (Hoyle, Tanner & Associates, Inc.)
 - Todd M. Clark, PE (Design Project Manager)
 - Audrey G. Beaulac, PE (Senior Transportation Engineer)
- Arlington Typing & Mailing
 - Greg Tarbox (Transcriptionist)

Project Team

MassDOT

Project Proponent

Hoyle, Tanner & Associates, Inc.

Responsible for Design

MassDOT's Highway Division

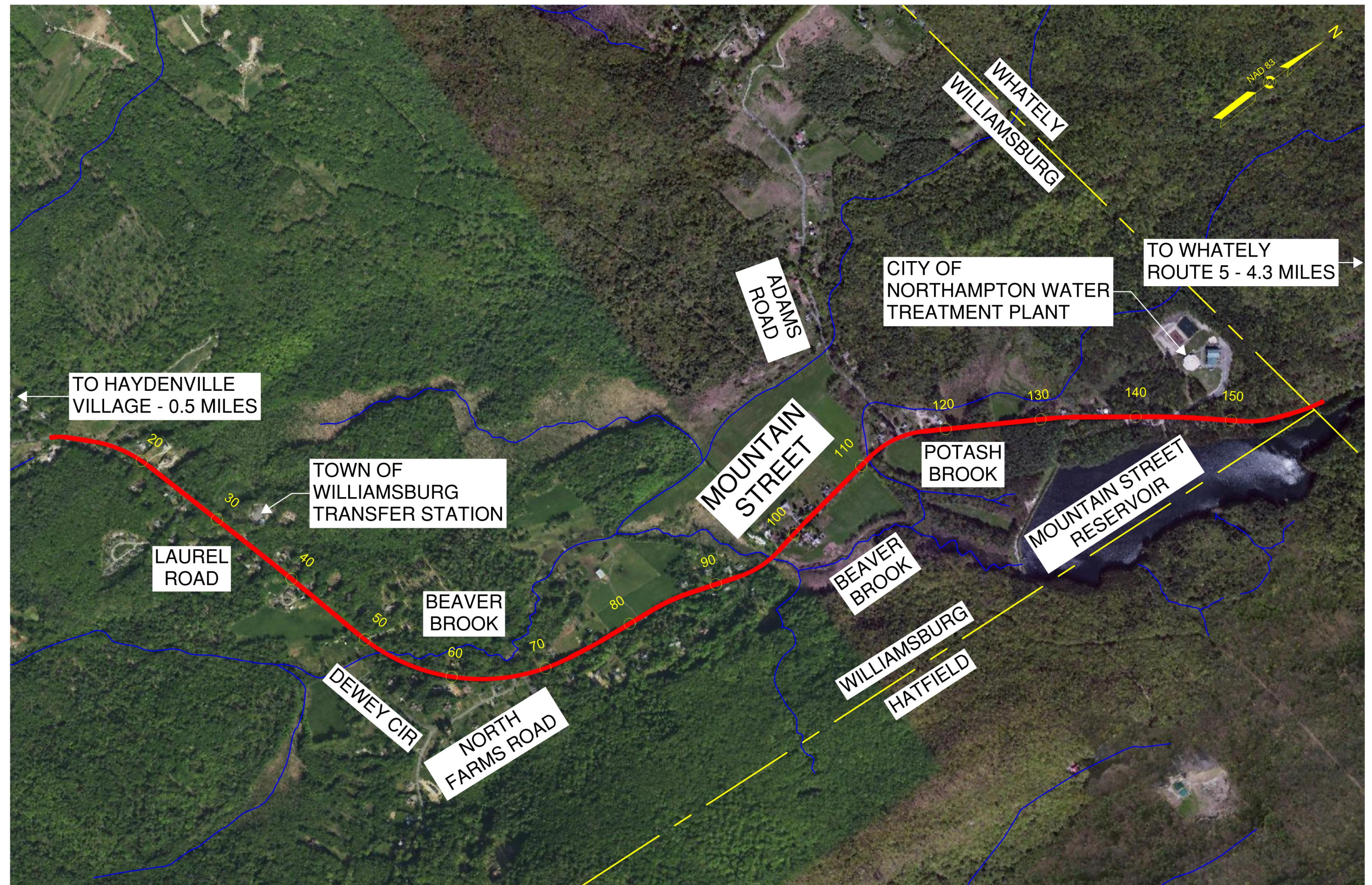
Responsible for Administering the Design Process and Providing Resident Engineer Services

Town of Williamsburg

Responsible for Securing Land Rights

Project Area

- Mountain Street
- Kingsley Avenue
2.8 m to Whately
- Connects Route
9 to Route 5
- Rural Setting –
Rolling Terrain
- Serves 1500 VPD
- Within Natural
Resources





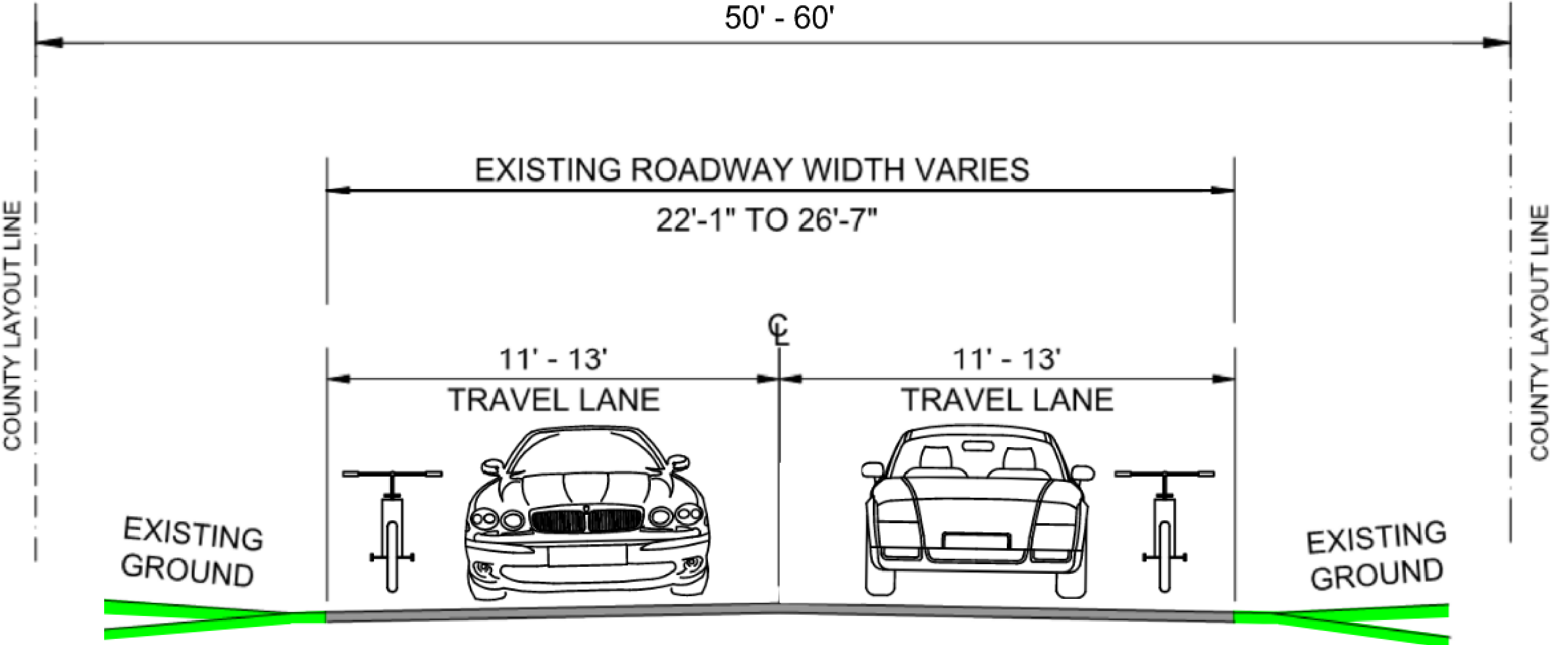
Existing Issues

Existing Issues

- Roadway Condition
 - A narrow road with an irregular surface, deteriorating, lacks cross-slope
- Safety
 - High Crash Rate
 - Substandard guardrail, signage and roadside objects
- Bicycle and Pedestrian Accommodations
 - No defined bicycle or pedestrian accommodations
- Drainage
 - Insufficient road surface and ditch line drainage - PONDING
 - Deteriorated closed drainage systems
 - Erosion at culvert outfalls
 - No stormwater treatment for paved surface runoff

Existing Issues *(continued)*

Existing Typical Section
EXISTING LAYOUT VARIES
50' - 60'



Existing Issues *(continued)*



Station 73+50 Ponding at edge of the road, cracking and delaminating the pavement with near-by trees & utility poles



Station 159+20 Roadway pavement is rutting, cracking and fragmenting. Steep back-slope and tree cover

Existing Issues *(continued)*



Existing headwall that is cracked at one of the stormwater outfall locations.



Cracking of the pavement edge and erosion along the gravel shoulder.

Existing Issues *(continued)*

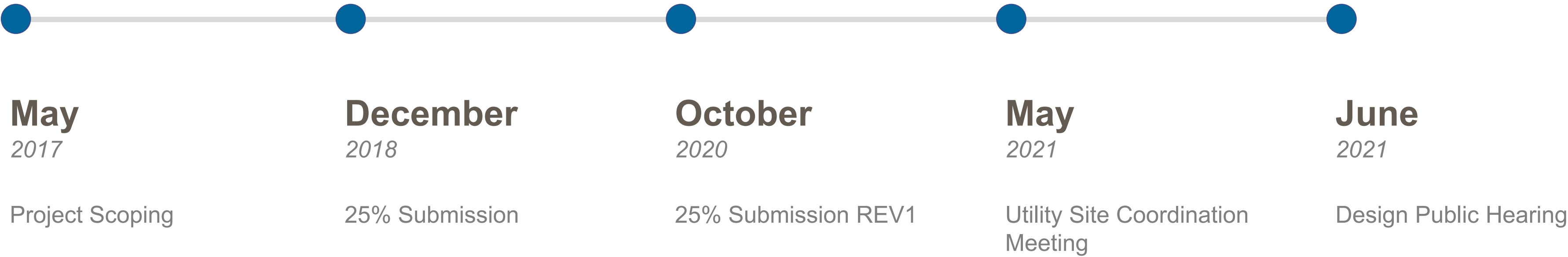


Deteriorated invert of a corrugated metal pipe culvert.



Steep outlet of an existing outfall and the headwall that is falling over.

How did we get here?





**Why was
this project
initiated?**

Project Goals

- **Roadway Condition** | Address the pavement and substructure conditions.
- **Safety** | Address roadway departure risk, calm traffic speed, modernize roadside guardrail, signs, and pavement markings.
- **Bike and Pedestrian Accommodations** | Provide bicycle and pedestrian accommodations for the needs of all users - Balanced with surrounding context (terrain, land-use, resources, needs)
- **Drainage-Treatment** | Address the deteriorated drainage system, improve edge of pavement waterways and ditch lines, provide stormwater runoff treatment where feasible.



**What do we
want to
accomplish?**

Project Scope

- Make Improvements Along Mountain Street – Kingsley Ave Intersection to Whately Town Line
 - Reclamation of Roadway Surface – Sliver widening
 - New pavement travel lanes with shoulders
 - Construction of Open and Closed Drainage Systems, Ditch Lines, Paved Waterways, and Subdrains
 - 7 Side-Road and Numerous Driveway Matches
 - New Guardrail, Signs and Pavement Markings
 - Minor Stream Crossing Replacement
 - Utility Pole and Hydrant Relocations, Tree Clearing
 - Retaining Wall Construction
 - Stormwater Treatment Practices
 - Level Spreader, Forebay, Grassed Swale, Deep-Sump Catch Basins, Stone Check Dams



What alternatives were considered?

Alternatives

Bicycle and Pedestrian Focused Alternatives

- Bike Path
- Separated Bicycle Lane
- Raised Sidewalks

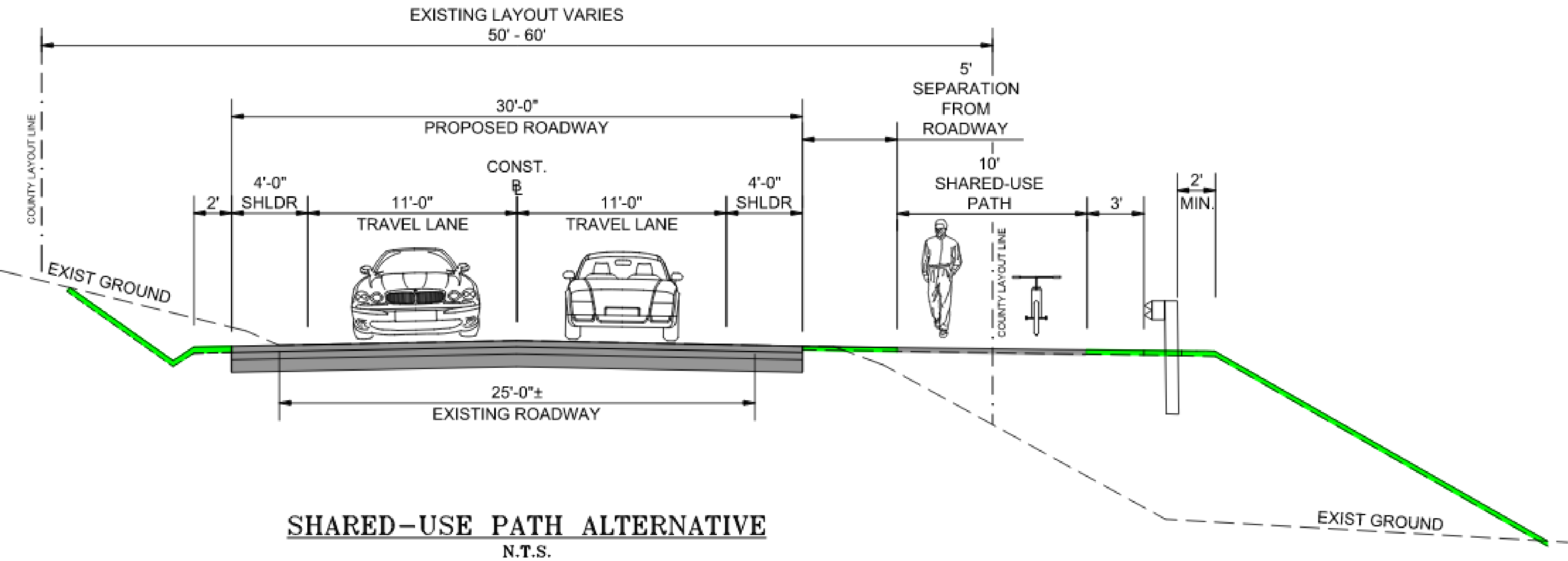
Alternatives *(continued)*

Roadway Alternatives

- Alternative 1 – 30' Paved Typical Section
- Alternative 2 – 28' Paved Typical Section (Shared Travel Way)
- Alternative 3 – 26' Paved Typical Section (Shared Travel Way)
- Alternative 4 – Match Existing Pavement Width
- Alternative 5 – 28' Paved Typical Section (10'-4')
- Similarities:
 - Roadway: Full Depth Reclamation with Gravel Box Widening
 - Safety: New Guardrail, Signage, Pavement Markings
 - Bike Accom.: Provides roadway shoulder for bicycle and pedestrian accommodation (requires exception to E-20-001)
 - Drainage: Reconstruct drainage system, provide paved waterways and ditch lines, provide stormwater treatment

Alternatives *(continued)*

Bicycle and Pedestrian Alternative 11-foot travel lanes with 4-foot paved shoulders and 10-foot shared use path



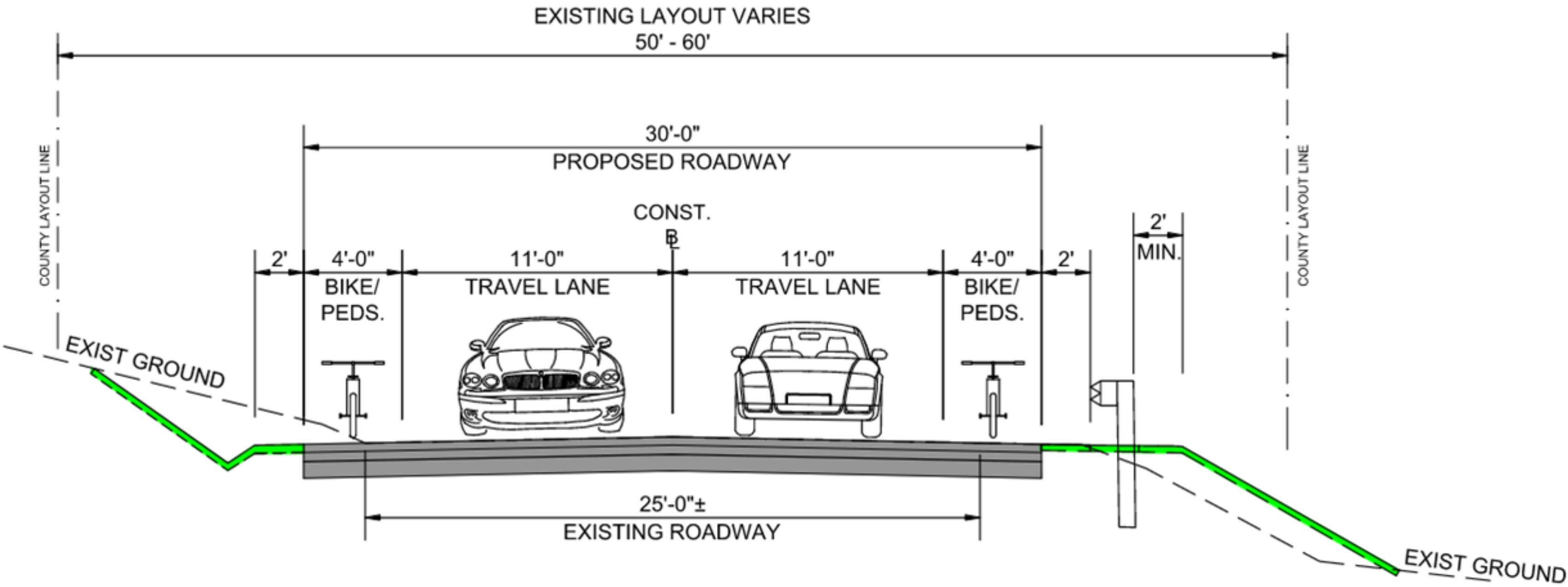
Alternatives *(continued)*

- Bicycle and Pedestrian Alternative
 - Constraints:
 - On Average a 5.5' pavement widening for road and 18' widening for path
 - Utility pole relocations
 - 3 stream crossing replacements (2 with bridge type structures)
 - Wetland resource impacts, including stream crossing impacts
 - Significant Right-of-Way Impacts with impacts to buildings
 - Cutting of several large trees adjacent to roadway

Alternatives (continued)

Alternative 1 – 30’ Paved Typical Section

11-foot travel lanes with 4-foot paved shoulders and 2-foot gravel guardrail offset platforms (34’ total width)



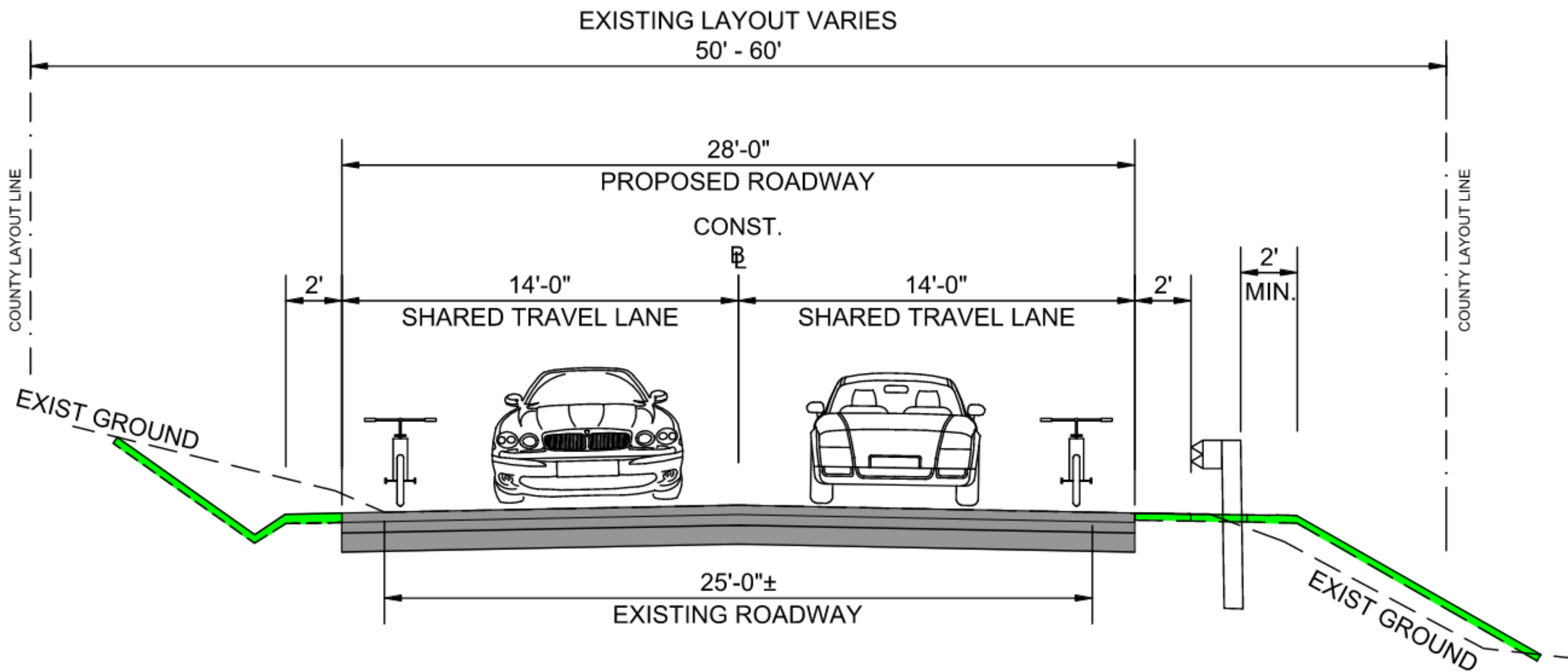
Alternatives *(continued)*

- Alternative 1
 - Constraints:
 - On Average a 5.5' pavement widening
 - 31 plus utility pole relocations
 - 3 stream crossing replacements (2 with bridge type structures)
 - Over 2,100 sf of wetland resource impacts (does not include stream crossing impacts)
 - Significant Right-of-Way Impacts and potential impacts to buildings
 - Cutting of several large trees adjacent to roadway

Alternatives (continued)

Alternative 2 – 28’ Paved (Shared Travel Way)

14-foot shared-use travel lanes and 1 or 2-foot gravel guardrail offset platforms (32’ total width)



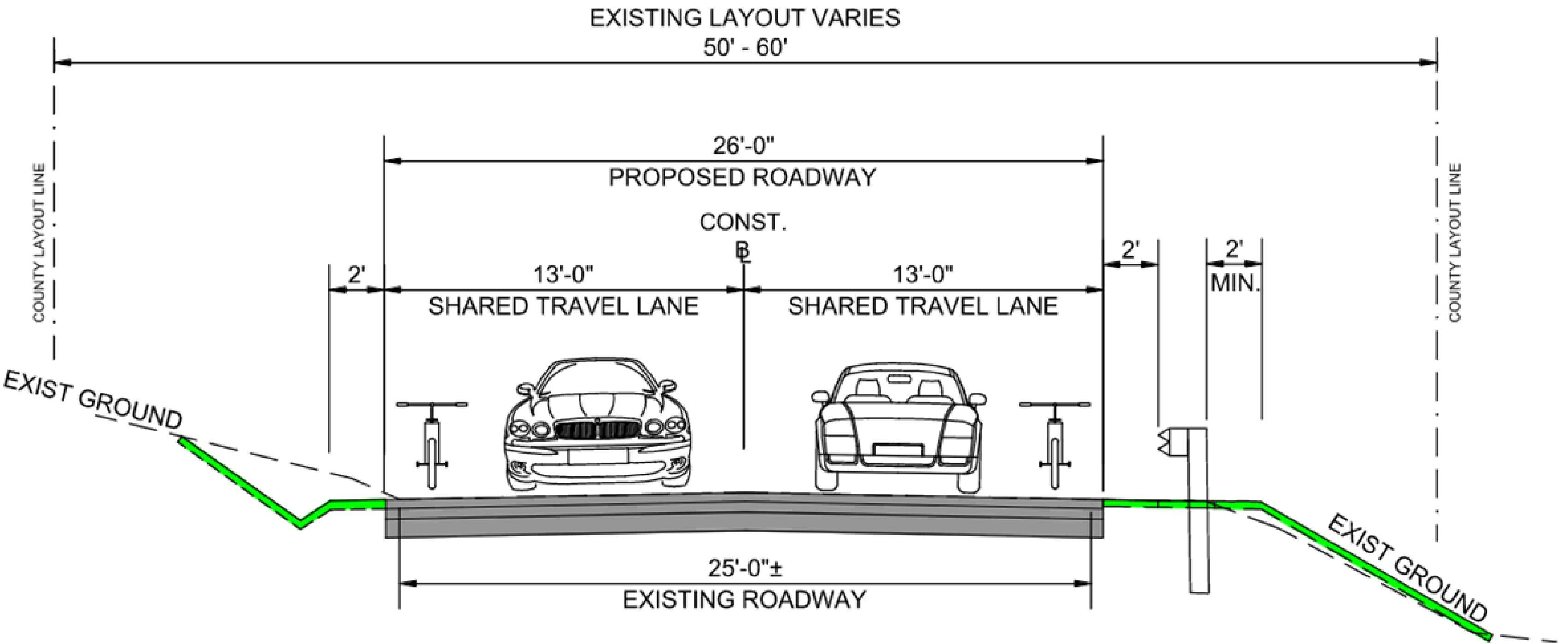
Alternatives *(continued)*

- Alternative 2
 - Constraints:
 - On Average a 3.5' pavement widening
 - Requires all users to share the travel way and vehicles must encroach over centerline when passing bike/pedestrian
 - 26 plus utility pole relocations
 - 3 stream crossing replacements (2 with bridge type structures)
 - Over 2,000 sf of wetland resource impacts (does not include stream crossing impacts)
 - Significant Right-of-Way Impacts

Alternatives (continued)

Alternative 3 – 26’ Paved (Shared Travel Way)

13-foot shared-use travel lanes and 1 or 2-foot gravel guardrail offset platforms (28’ to 30’ total width)

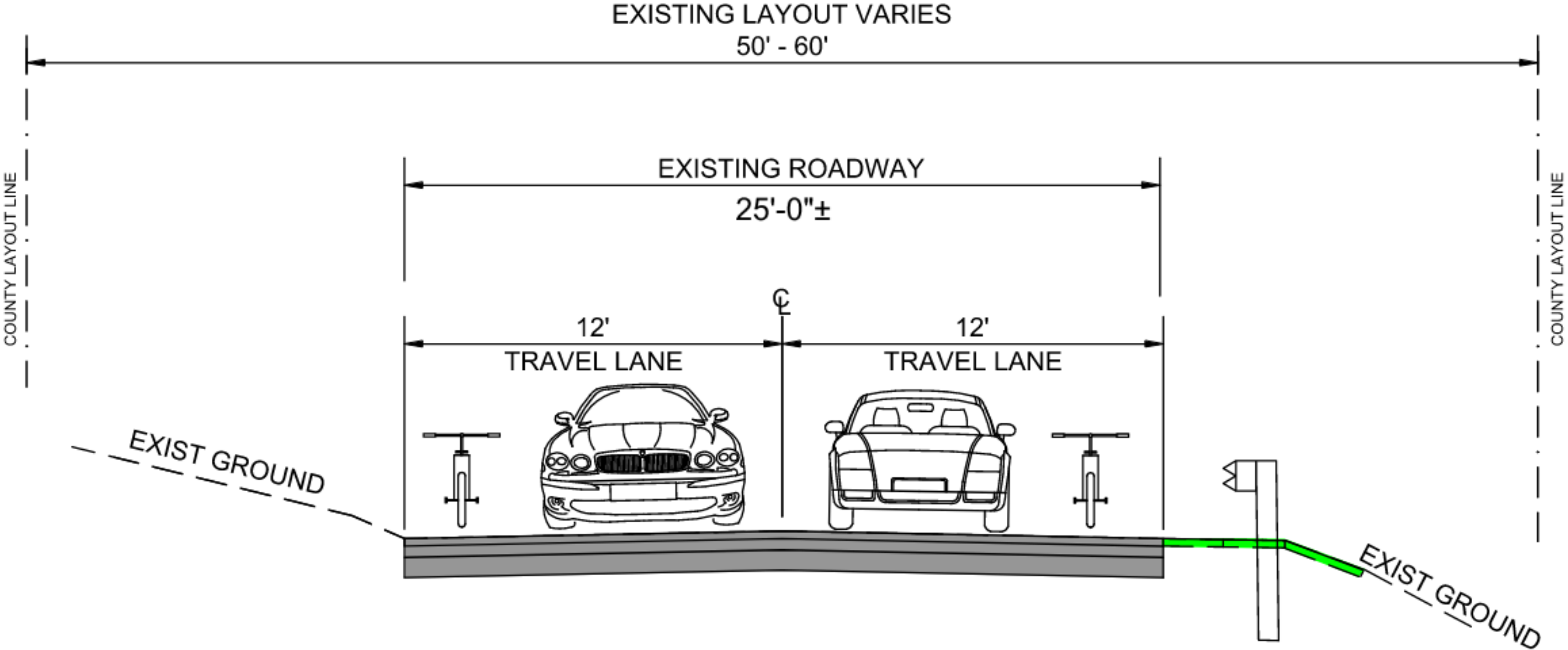


Alternatives *(continued)*

- Alternative 3
 - Constraints:
 - Requires all users to share the travel way and vehicles must encroach over centerline when passing bike/pedestrian
 - 15 plus utility pole relocations
 - 3 stream crossing replacements (two with bridge type structures)
 - Over 1,700 sf of wetland resource impacts (does not include stream crossing impacts)
 - Moderate Right-of-Way Impacts

Alternatives (continued)

Alternative 4 – Match Existing Pavement Width
12-foot shared-use travel lanes and 2-foot gravel guardrail offset platforms (28’ total width)



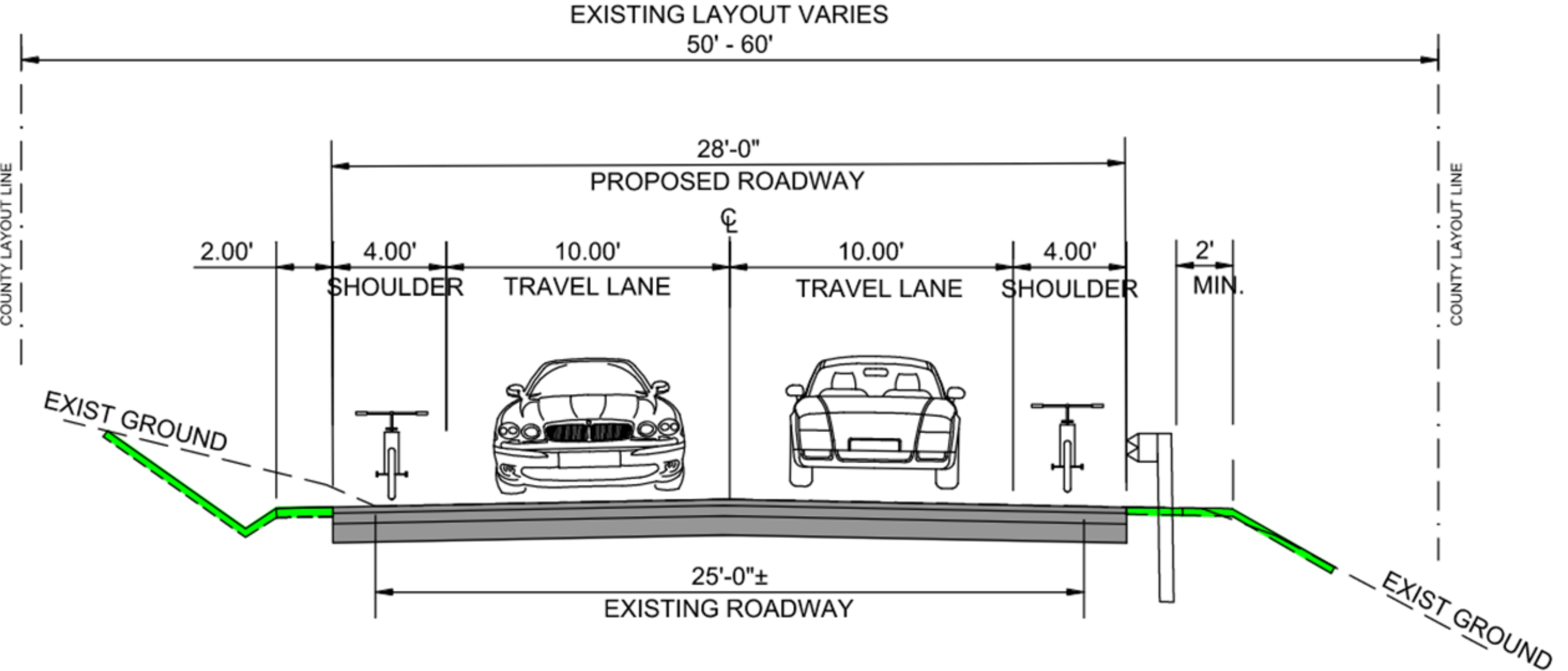
ALTERNATIVE 4
N.T.S

Alternatives *(continued)*

- Alternative 4
 - Constraints:
 - Requires all users to share the travel way and vehicles must encroach over centerline when passing a bicyclist or pedestrian
 - Minimal wetland resource and stream impacts
 - Minimal Right-of-Way Impacts (mostly for stormwater management)

Alternatives (continued)

Alternative 5 – 28’ Paved Typical Section (10’-4’)
10-foot shared-use travel lanes, 4’ paved shoulder, and no guardrail offset platforms (28’ total width)



Alternatives *(continued)*

- Alternative 5
 - Constraints:
 - 27 utility pole relocations
 - 1 stream crossing replacement
 - 2,190 sf of wetland resource and stream impacts
 - Moderate Right-of-Way Impacts

Alternative Constraints



Station 15+50. Garage, Tree, wall, utility pole near the existing roadway.



Station 30+50. Ledge and trees near the existing roadway.

Alternative Constraints *(continued)*



Station 37+00. Ledge and trees near the existing roadway.



Station 88+50. Shed, trees and utility poles near the existing roadway.

Alternative Constraints *(continued)*



Station 110+00. Stream crossing culvert just outside the existing roadway.



Station 127+50. Large trees adjacent to the roadway in the front yard of an abutter.

Alternative Constraints *(continued)*



Wetland in close proximity to the roadway.



Beaver Brook crossing beneath Mountain Street near station 96+50.

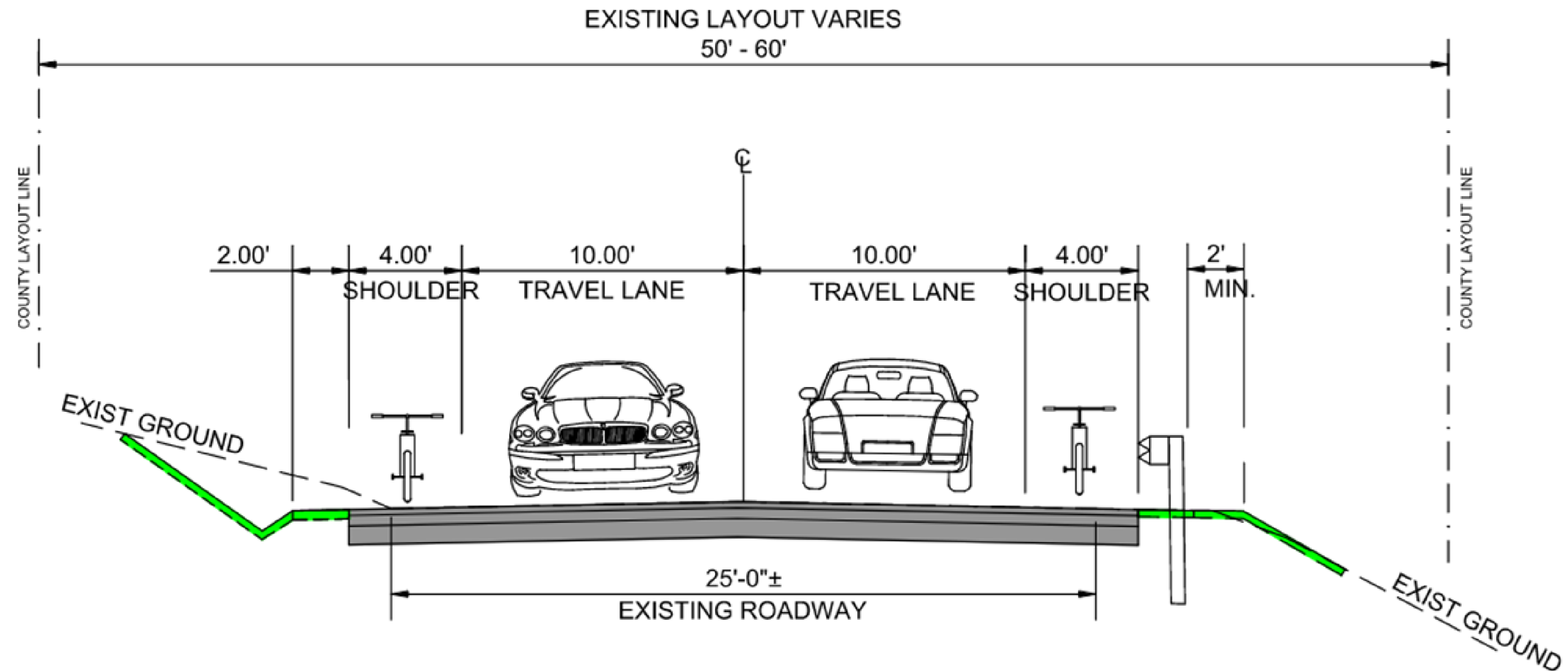


**What is the
preferred
alternative?**

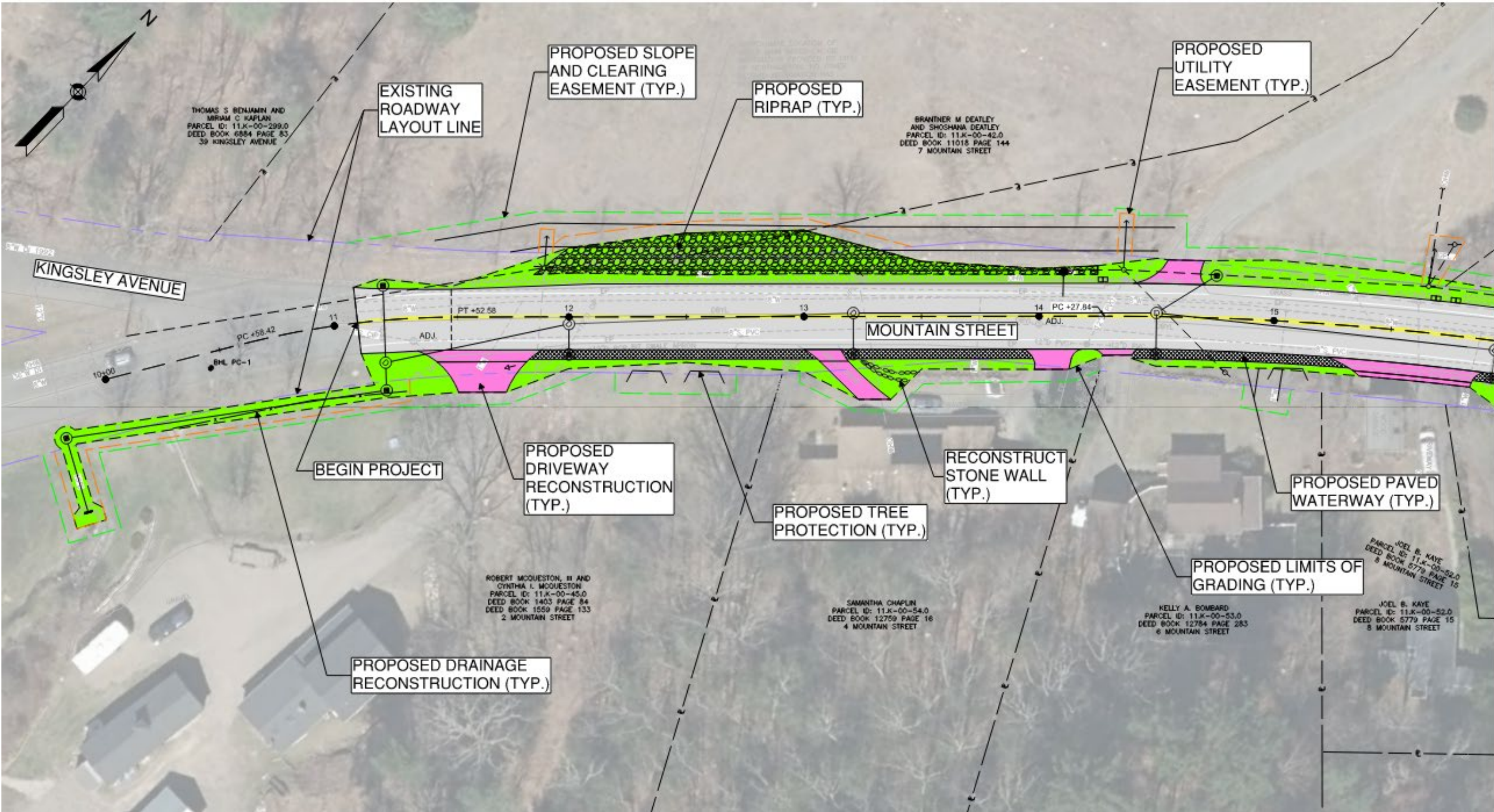
Proposed Improvements

- Improve condition of roadway pavement and subbase
- Improved roadway superelevation
- Provide 4' shoulder for bike/pedestrian
- Improve drainage system and surface drainage
- Provide stormwater treatment practices
- Preferred alternative balances impacts to abutters, wetlands and utilities while improving roadway safety, accommodations for all users (bike/pedestrian/vehicles) and stormwater treatment

Proposed Improvements *(continued)*

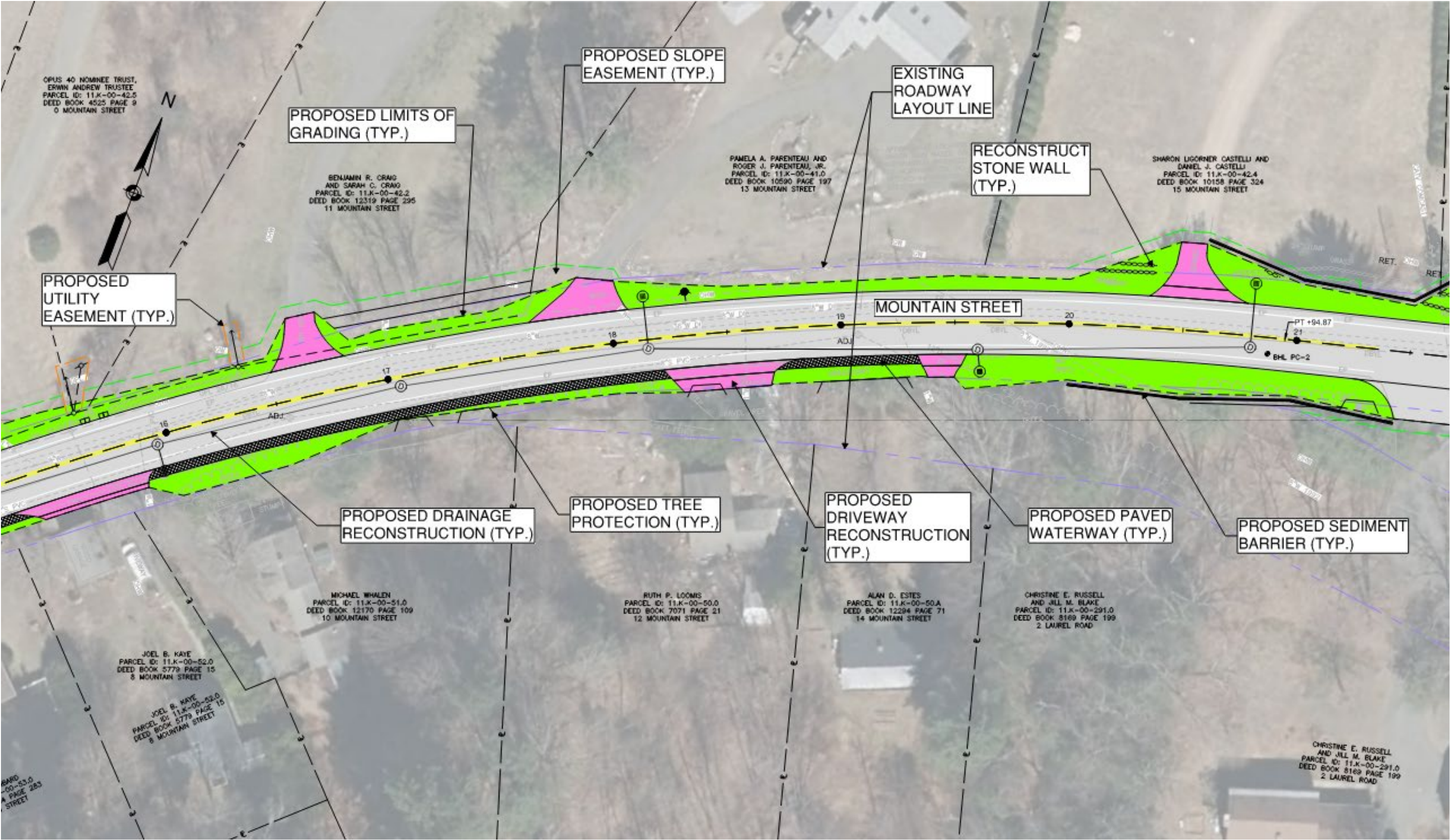


Proposed Improvements *(continued)* Roadway Plan 1 of 27

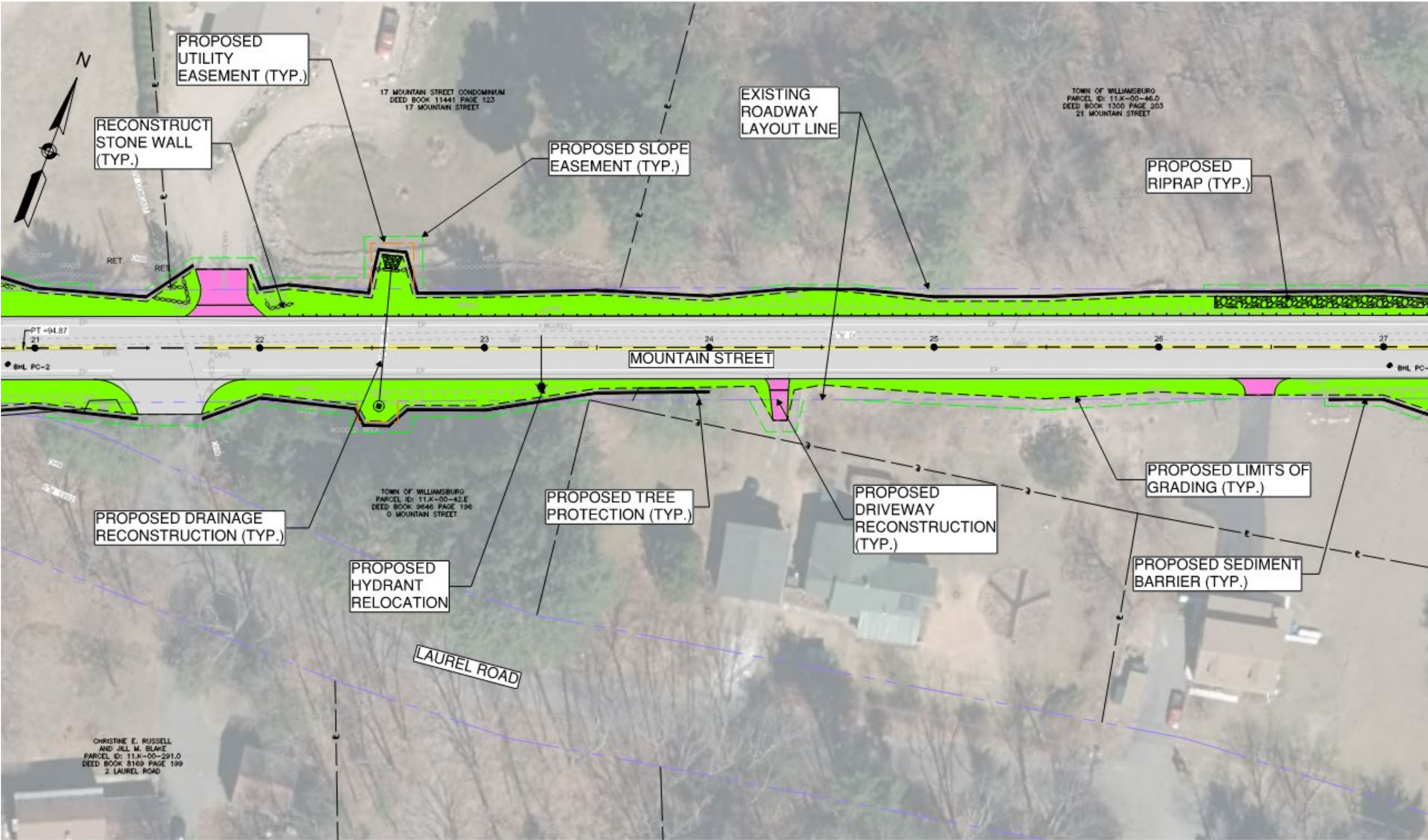


Proposed Improvements *(continued)*

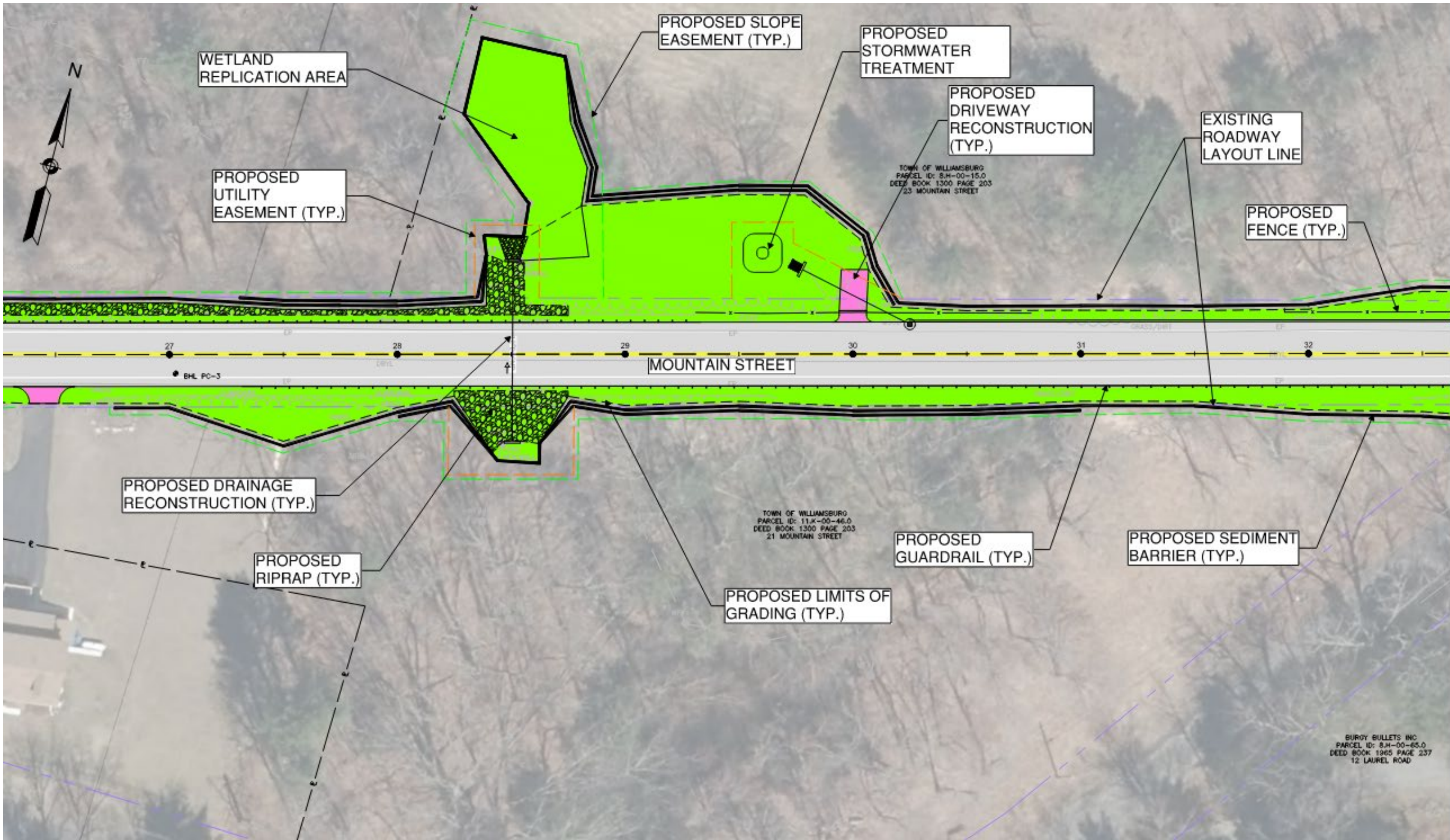
Roadway Plan 2 of 27



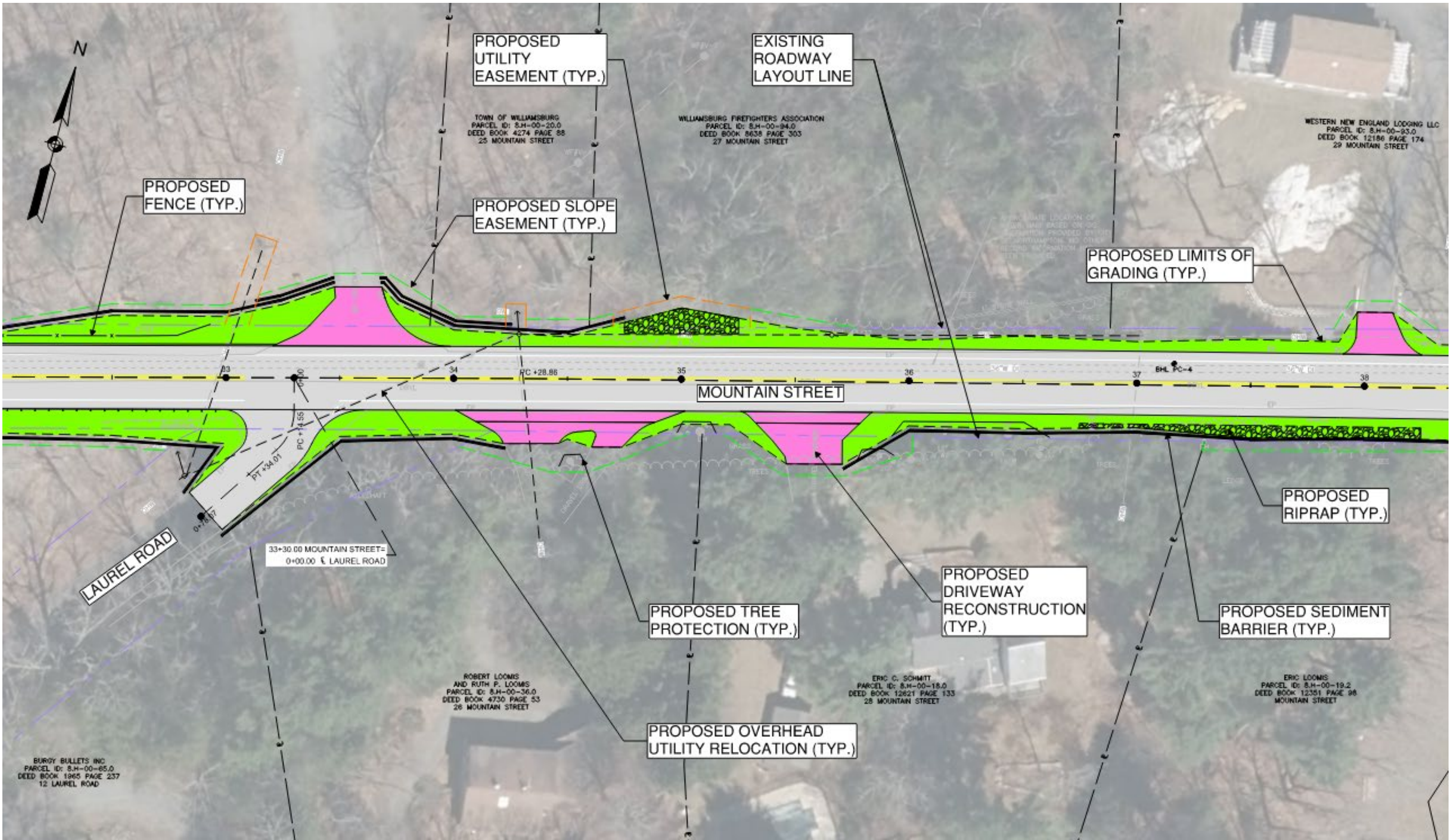
Proposed Improvements (continued) Roadway Plan 3 of 27



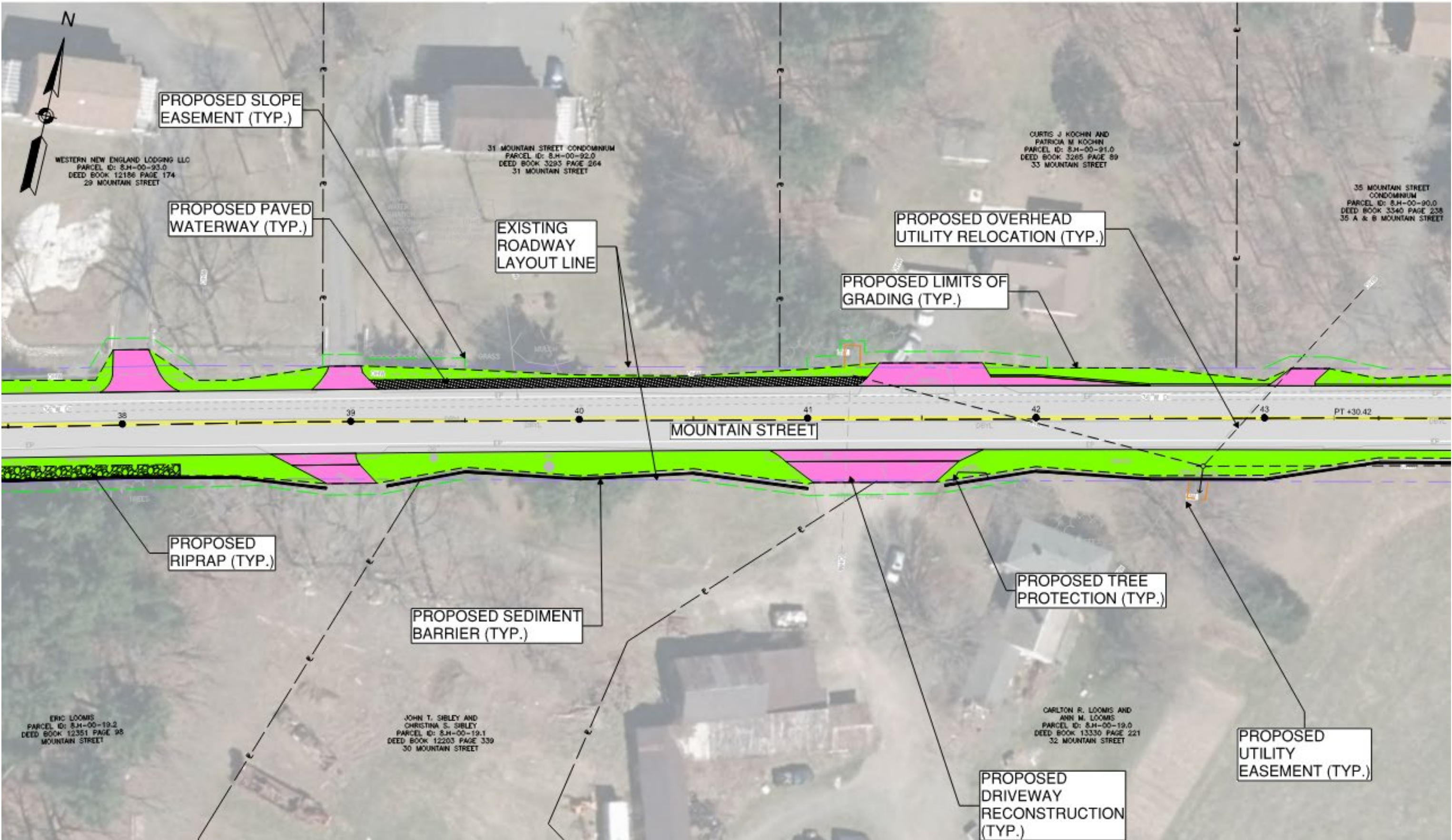
Proposed Improvements (continued) Roadway Plan 4 of 27



Proposed Improvements (continued) Roadway Plan 5 of 27

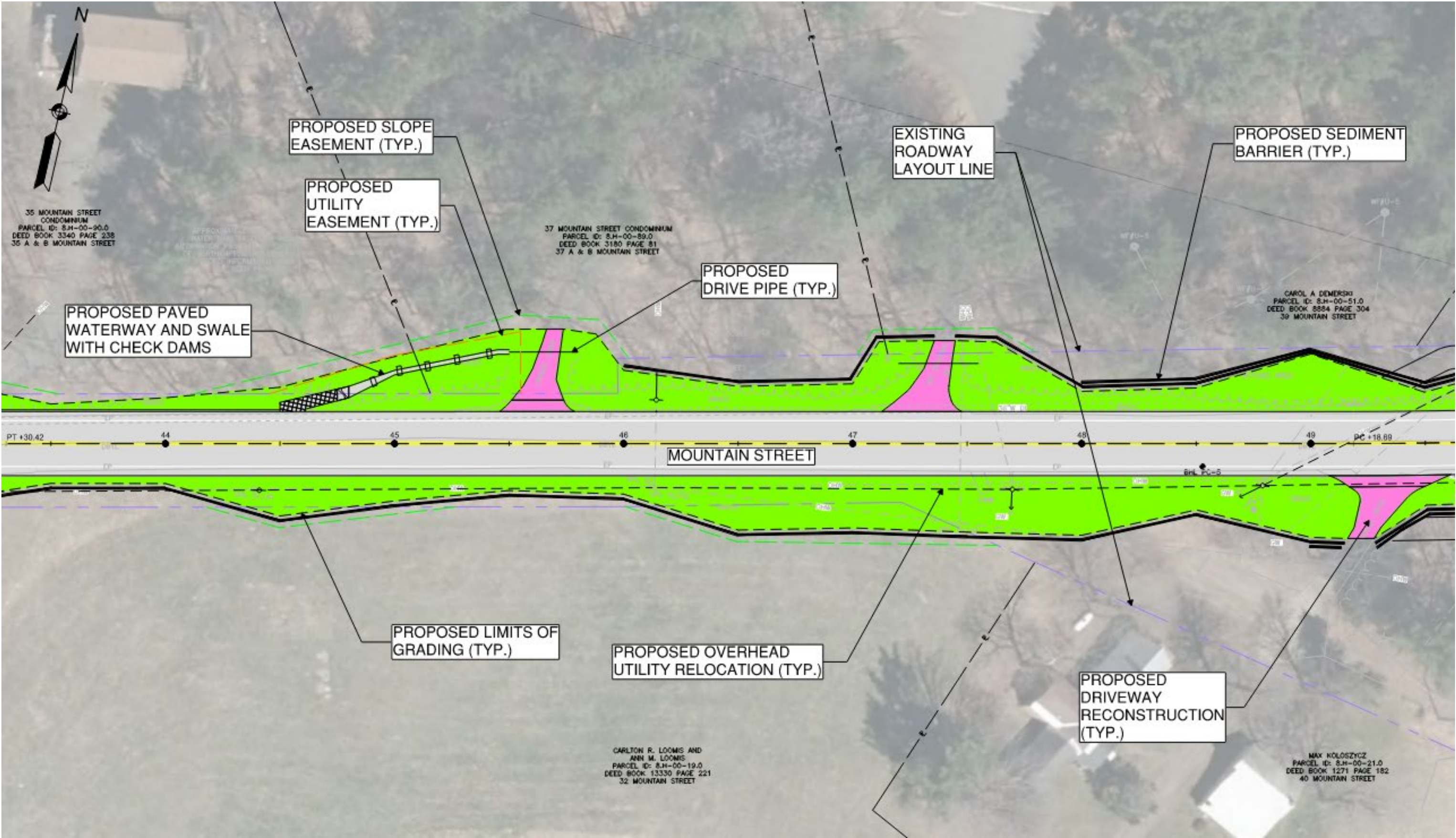


Proposed Improvements *(continued)* Roadway Plan 6 of 27

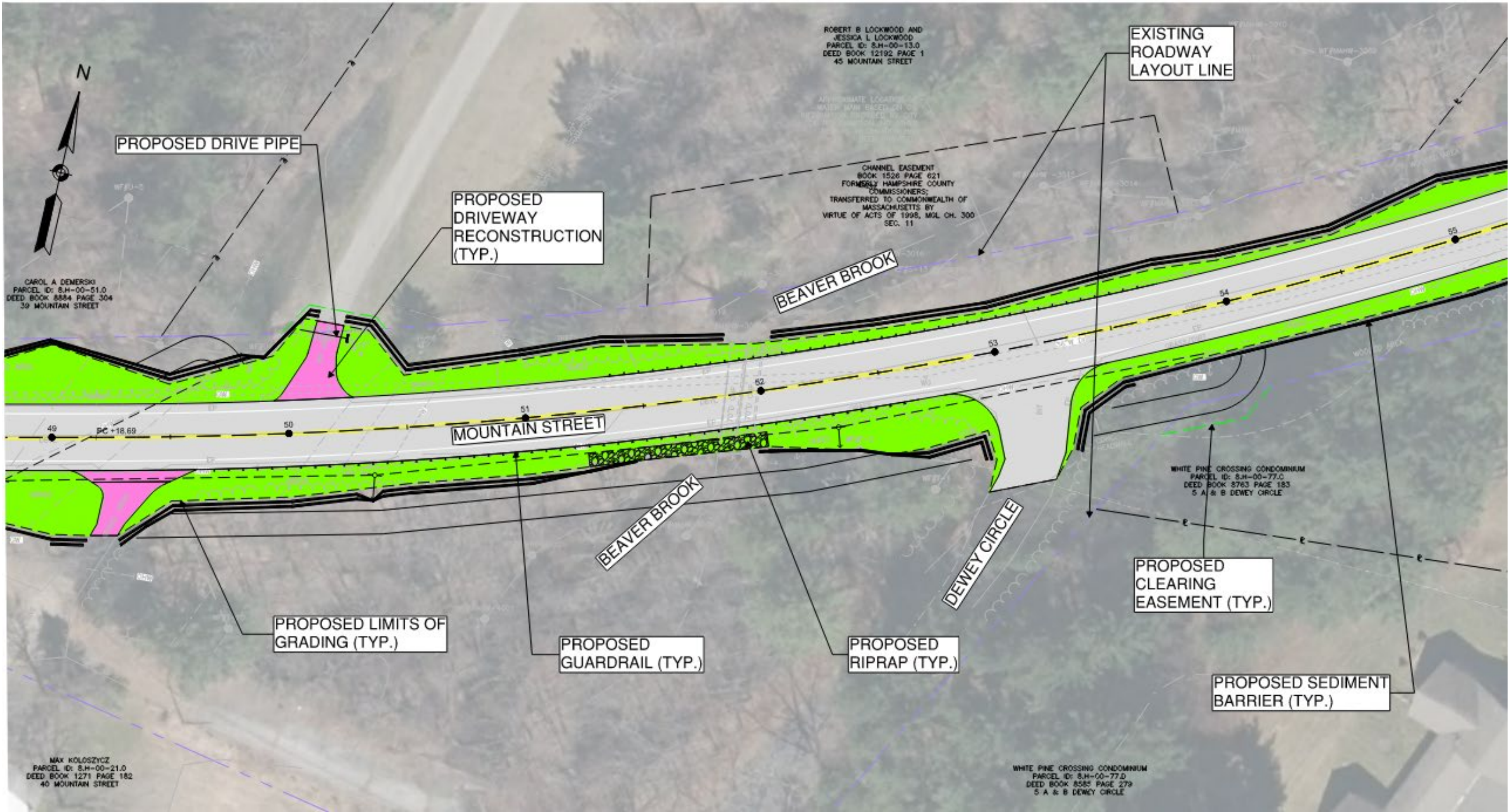


Proposed Improvements *(continued)*

Roadway Plan 7 of 27

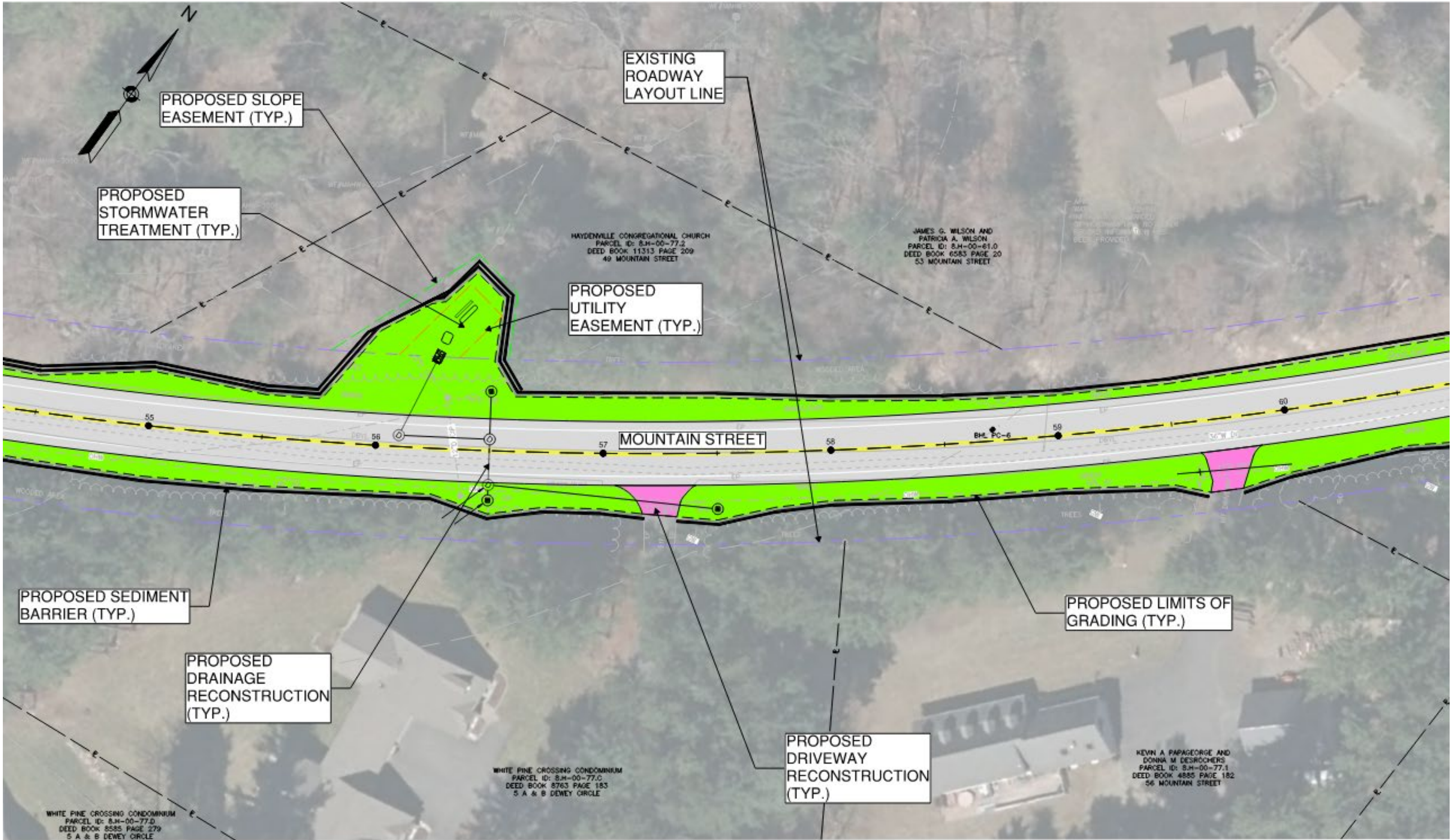


Proposed Improvements *(continued)* Roadway Plan 8 of 27

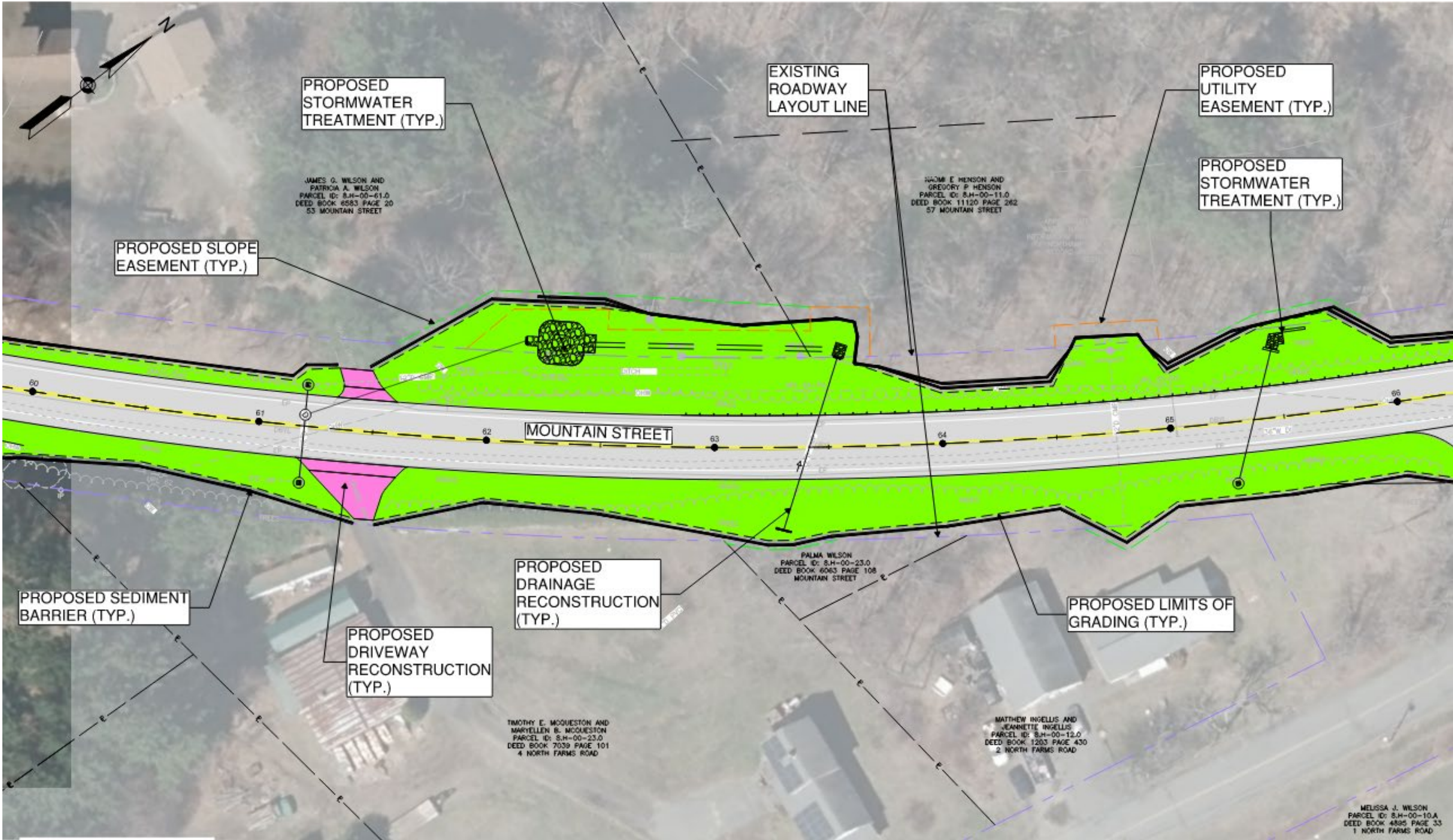


Proposed Improvements *(continued)*

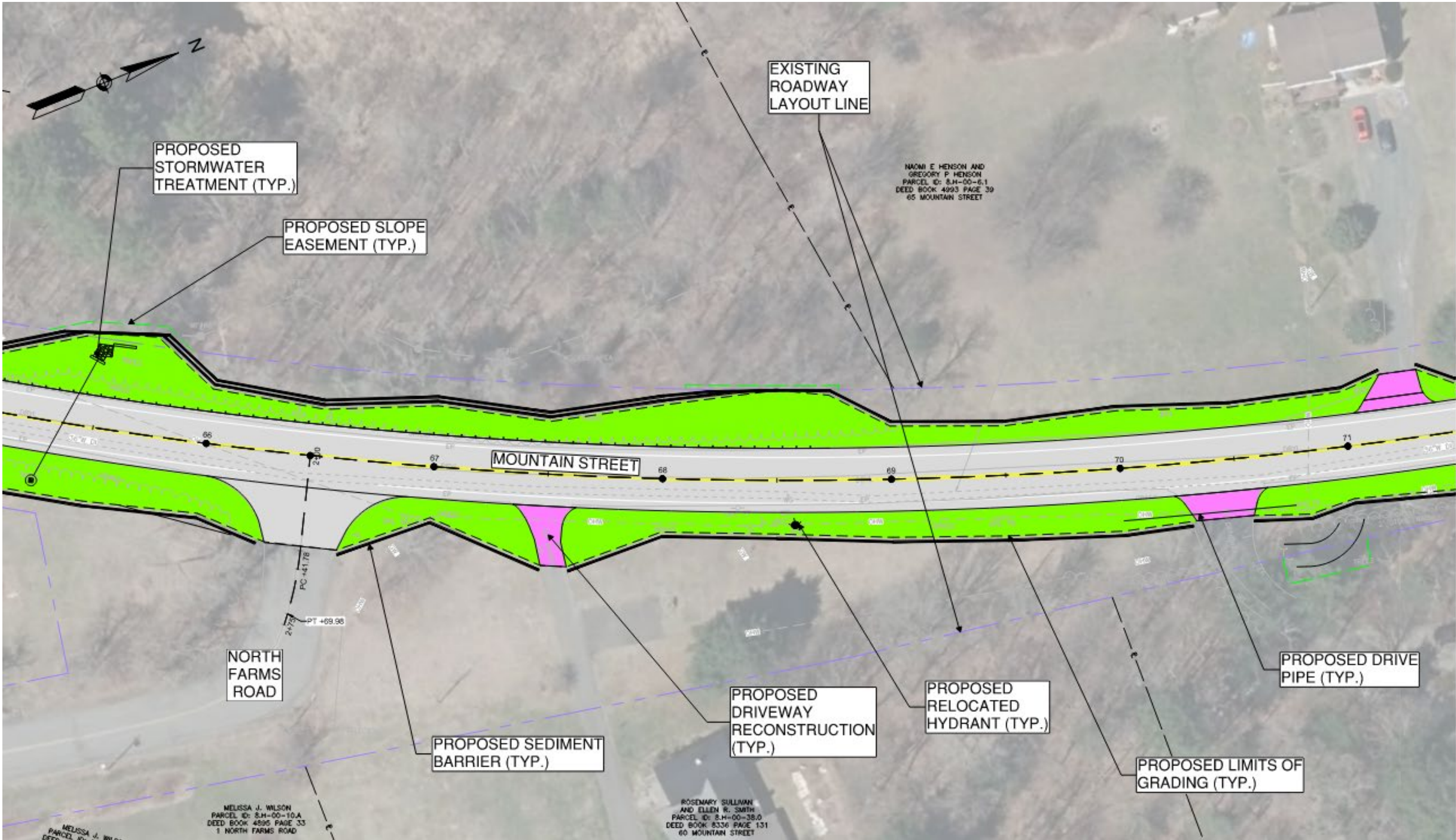
Roadway Plan 9 of 27



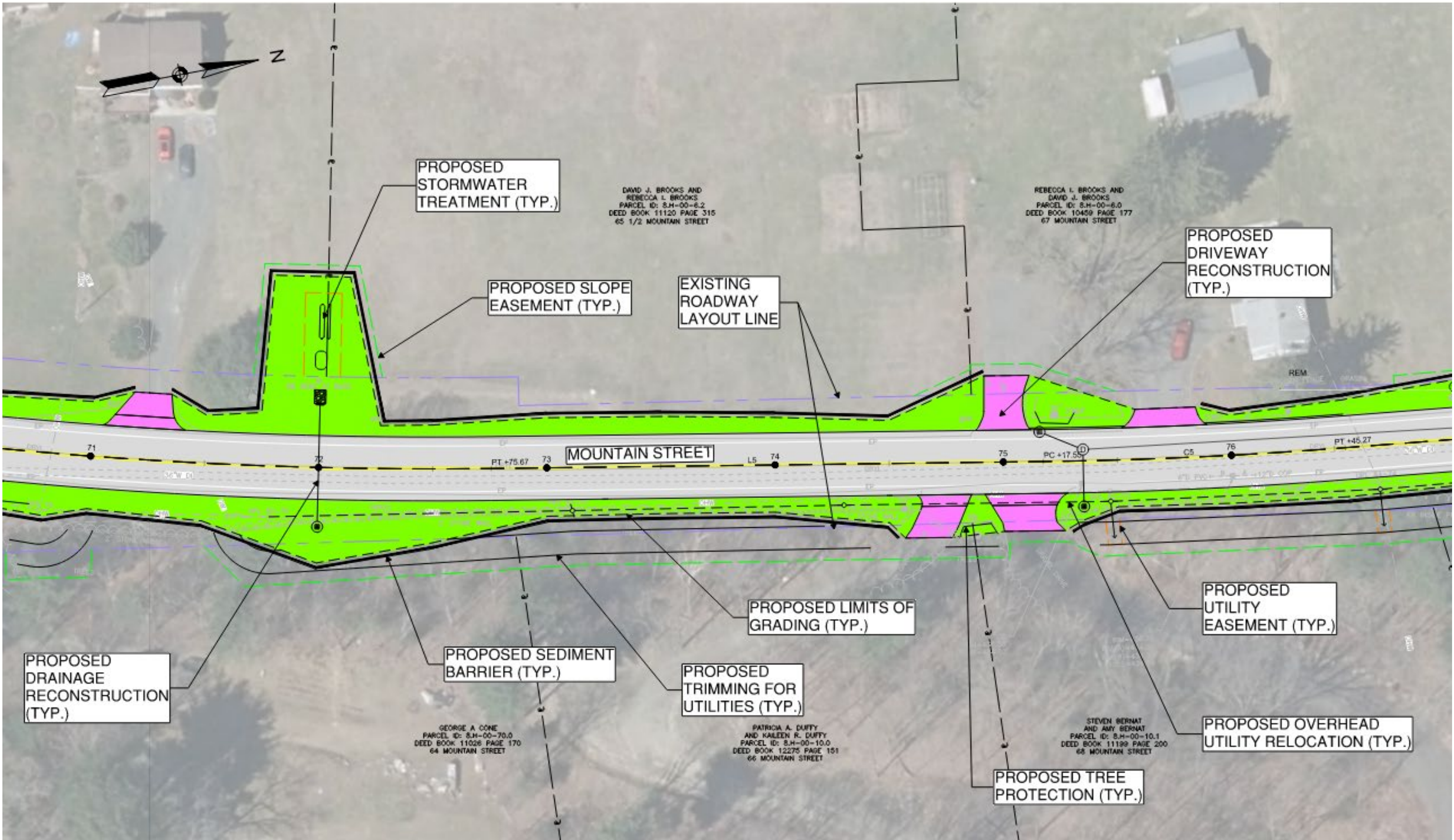
Proposed Improvements (continued) Roadway Plan 10 of 27



Proposed Improvements *(continued)* Roadway Plan 11 of 27

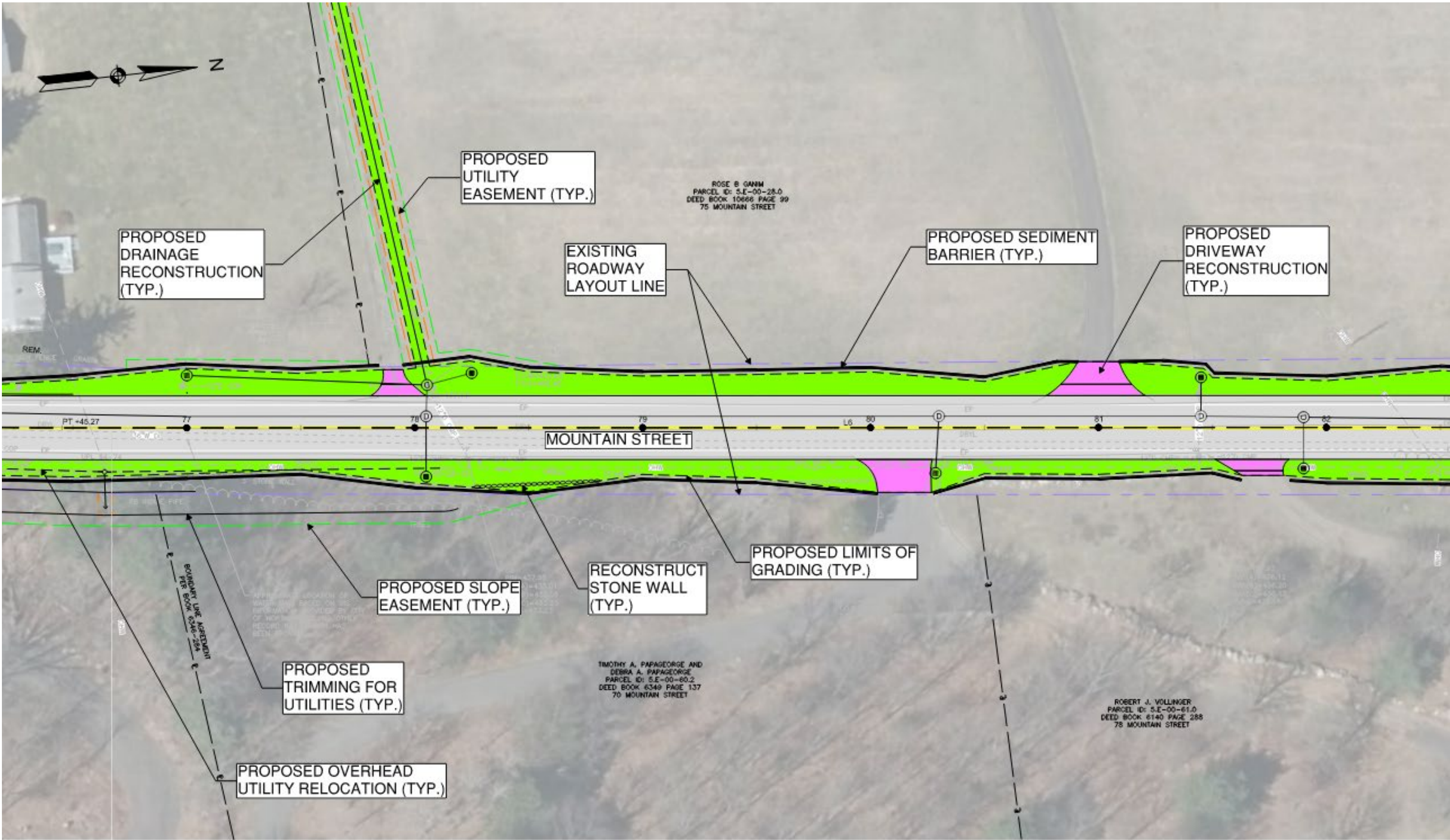


Proposed Improvements (continued) Roadway Plan 12 of 27



Proposed Improvements *(continued)*

Roadway Plan 13 of 27

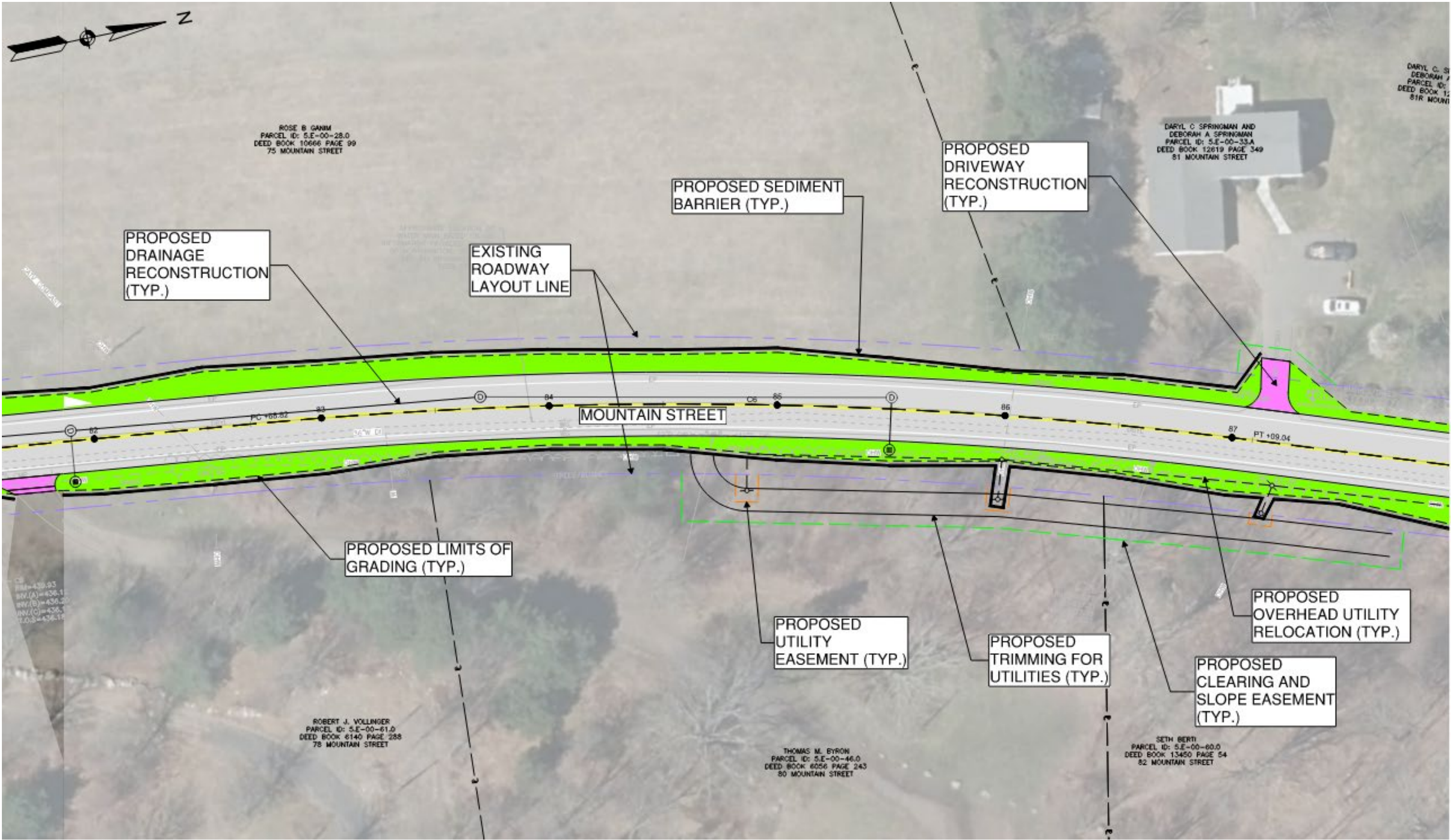


Proposed Improvements (continued) Roadway Plan 13A of 27

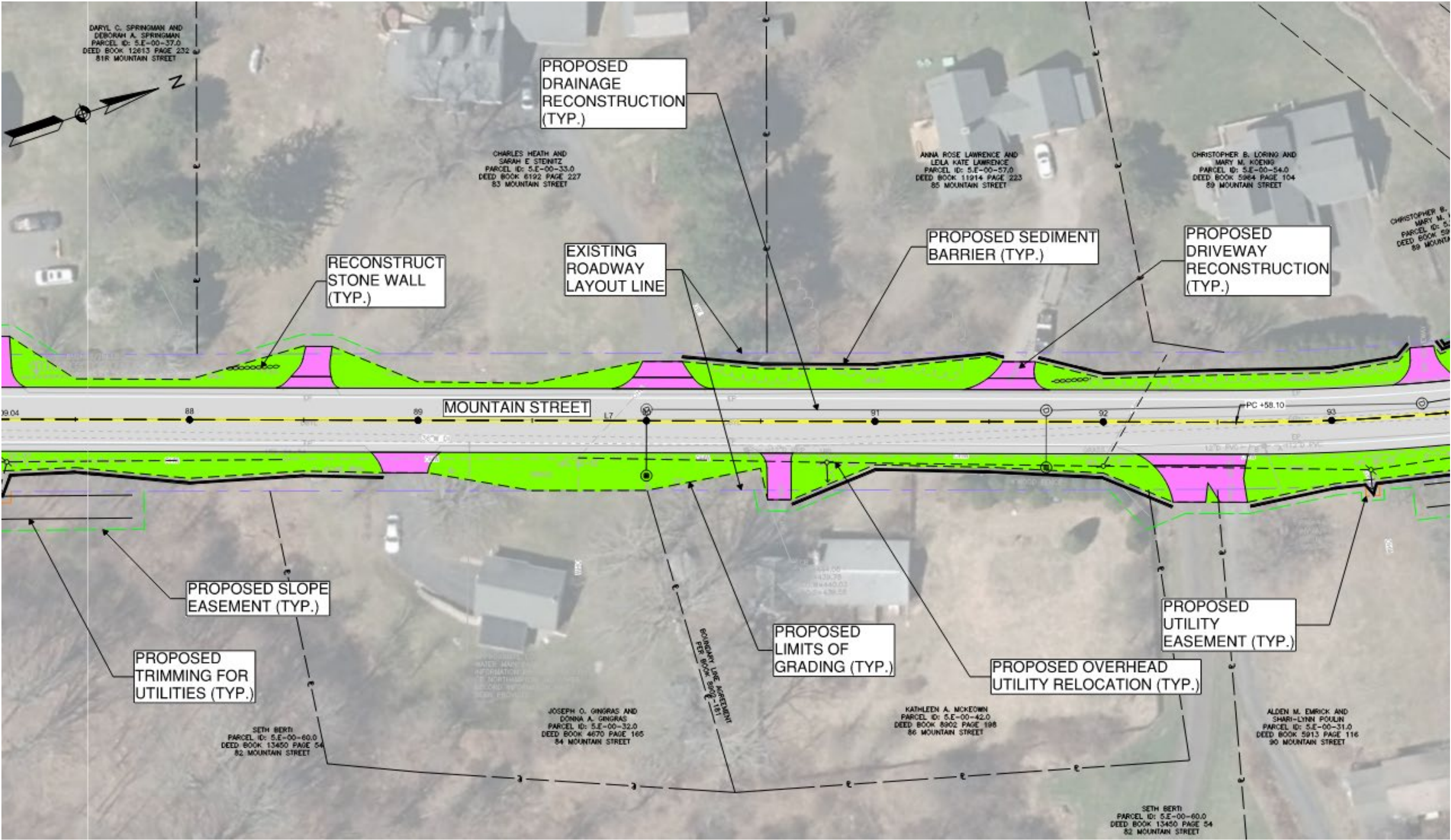


Proposed Improvements *(continued)*

Roadway Plan 14 of 27

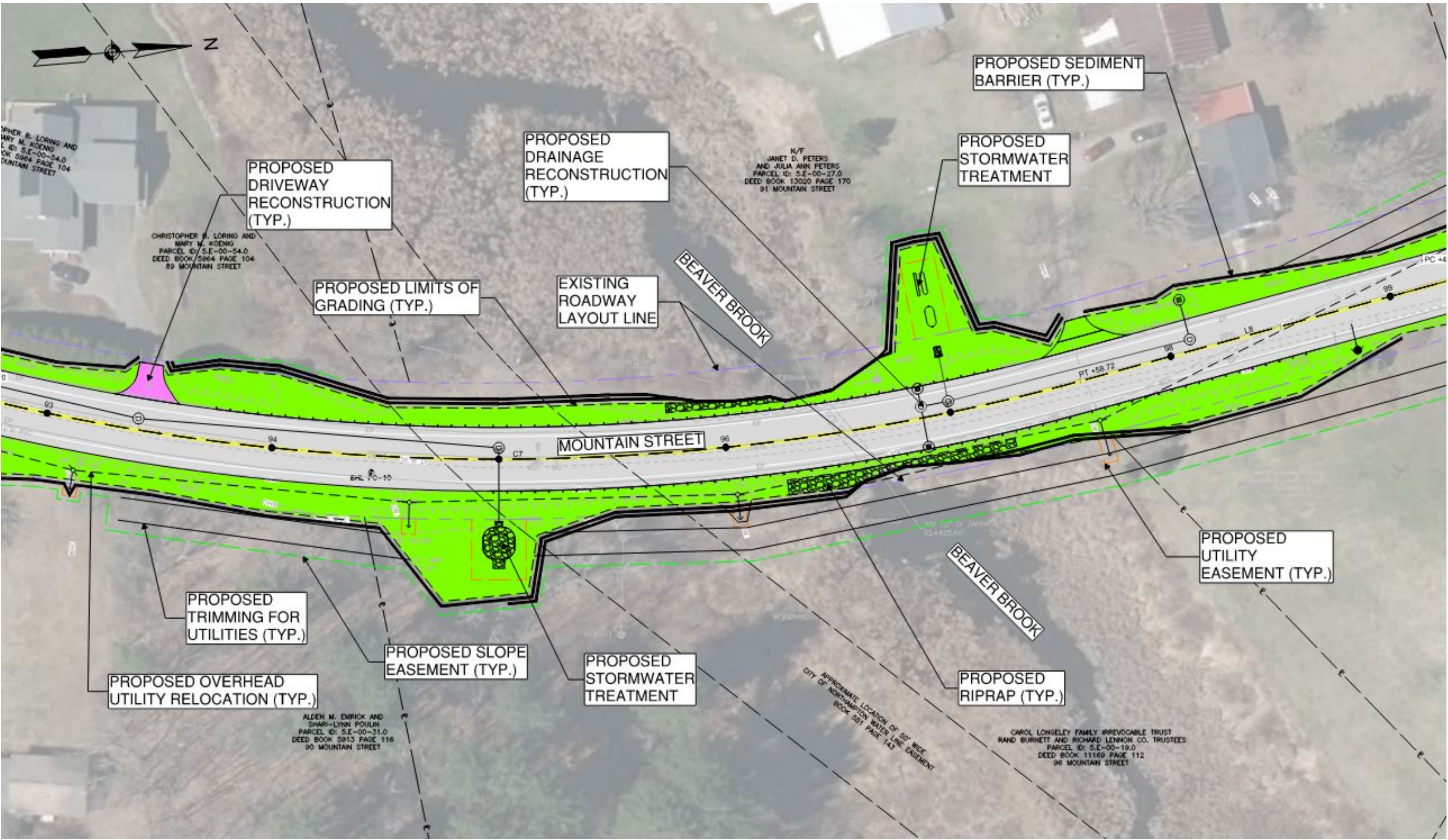


Proposed Improvements *(continued)* Roadway Plan 15 of 27

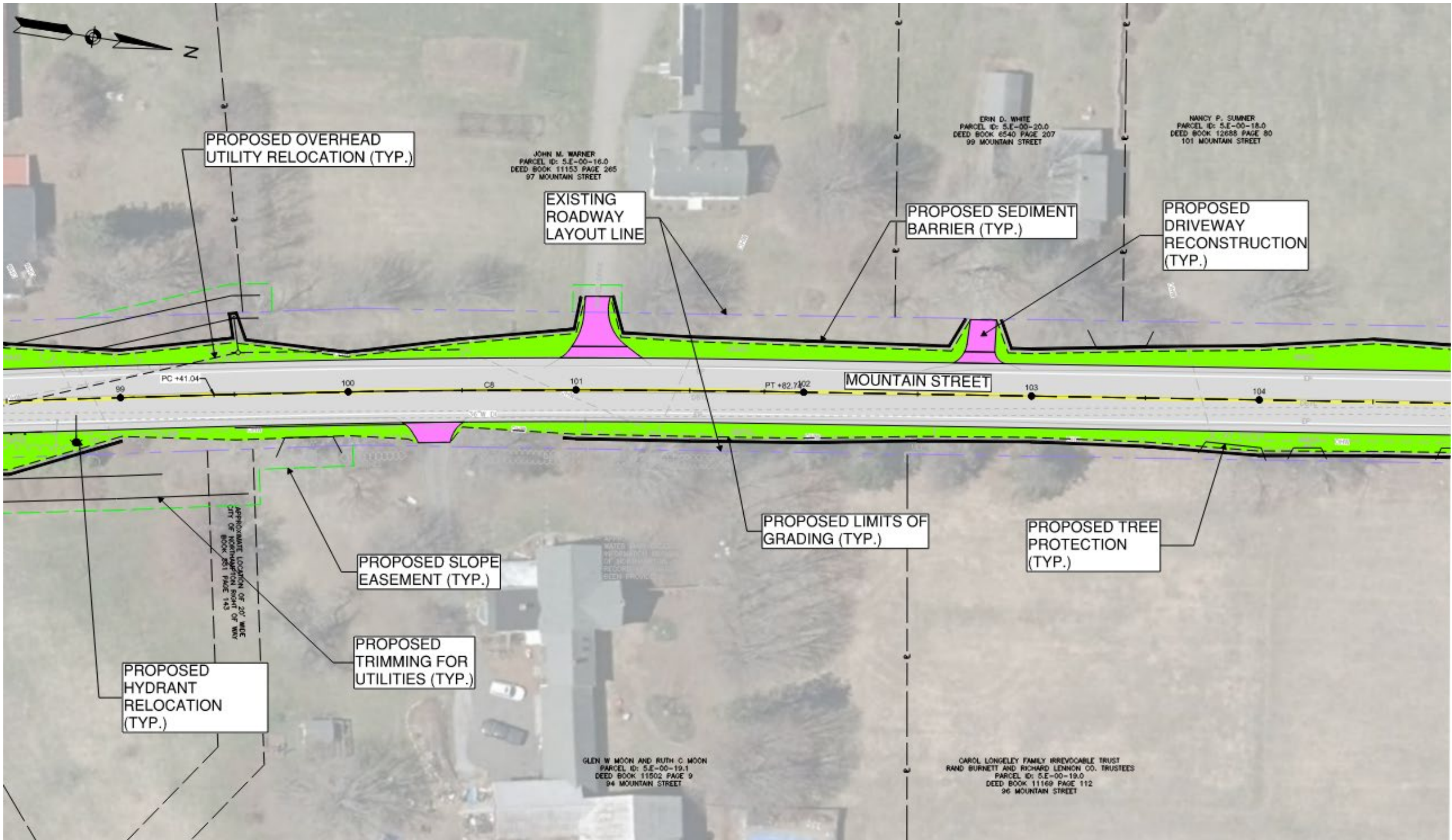


Proposed Improvements *(continued)*

Roadway Plan 16 of 27

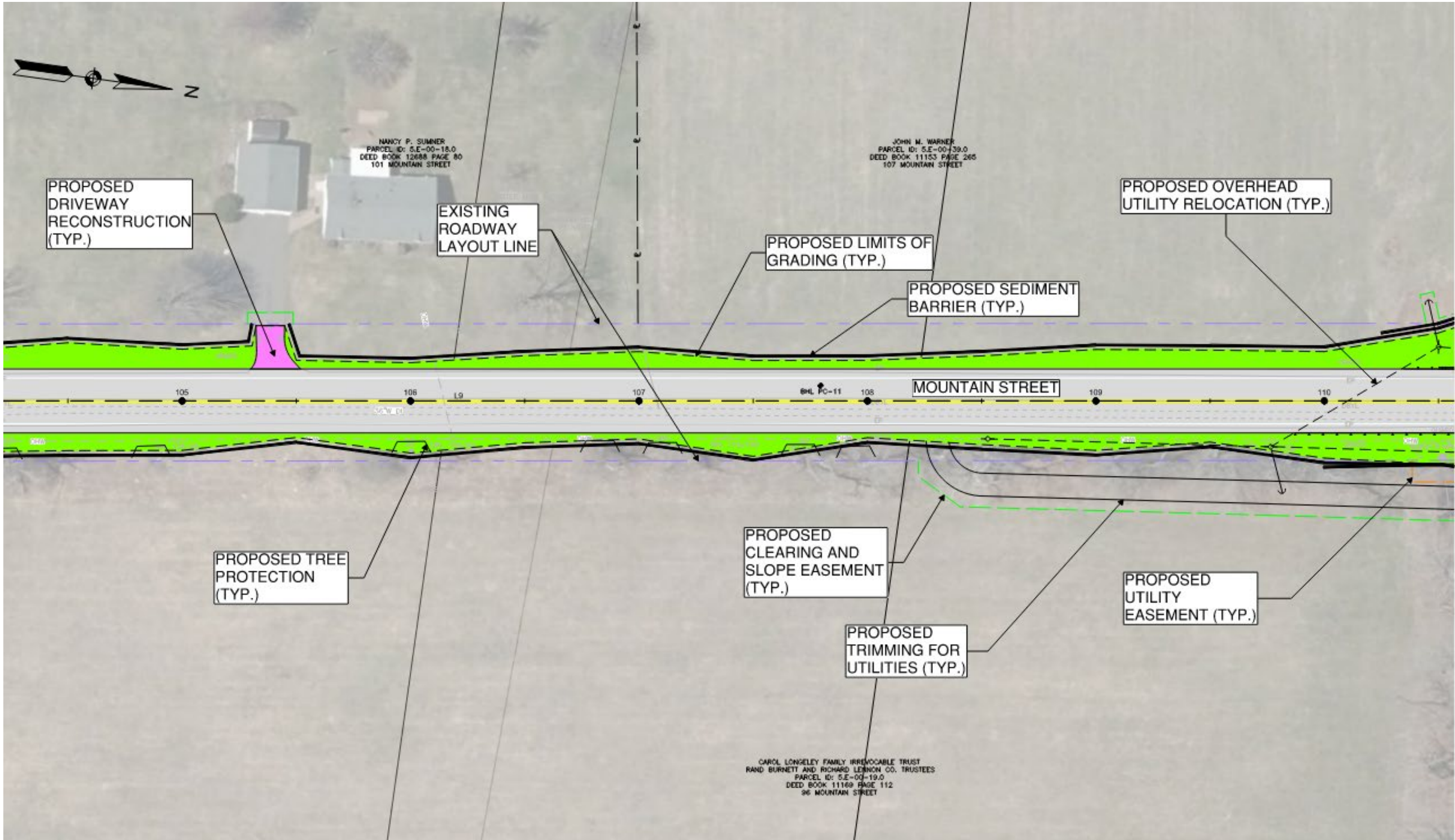


Proposed Improvements *(continued)* Roadway Plan 17 of 27

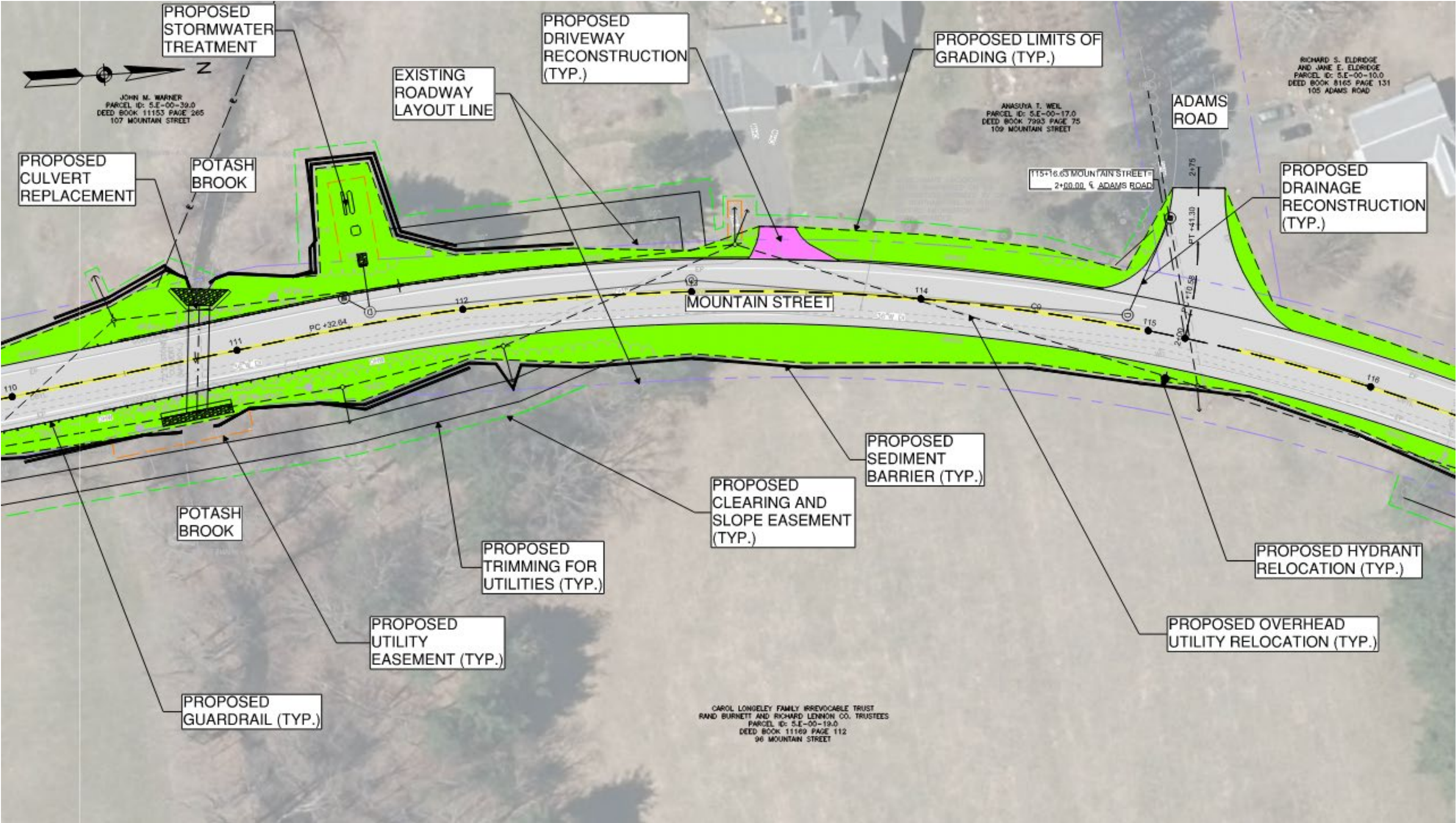


Proposed Improvements *(continued)*

Roadway Plan 18 of 27

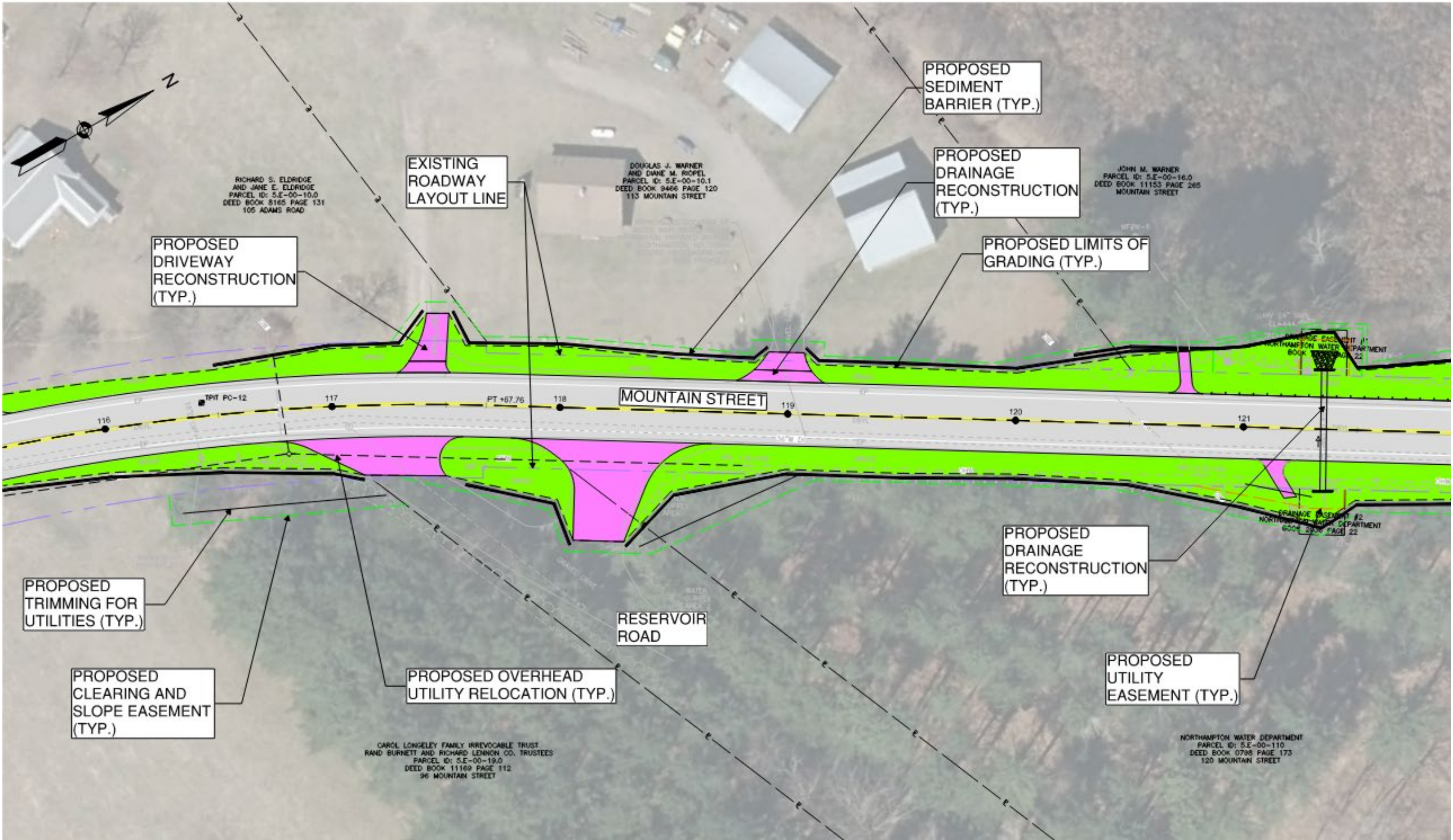


Proposed Improvements *(continued)* Roadway Plan 19 of 27



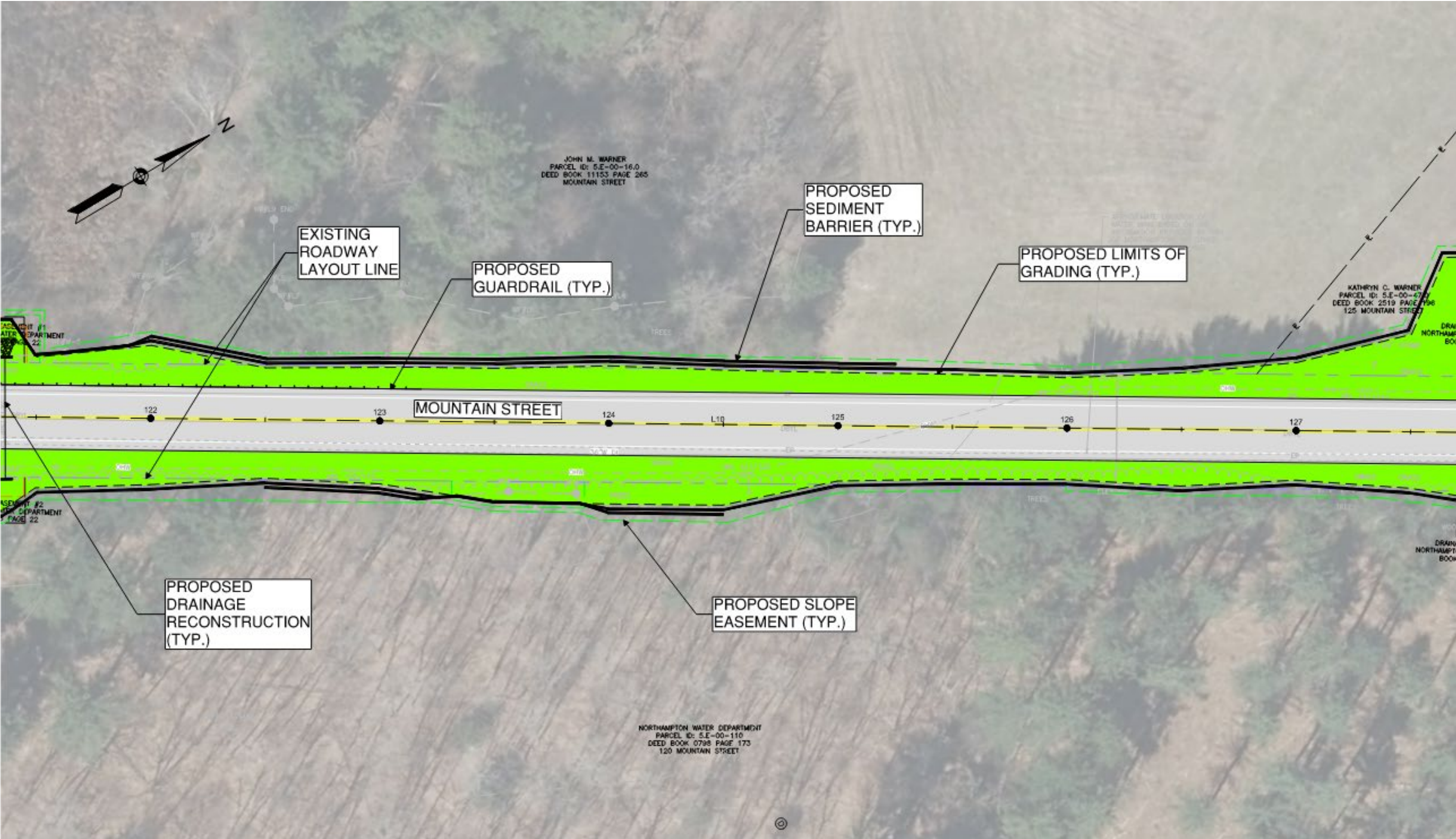
Proposed Improvements *(continued)*

Roadway Plan 20 of 27

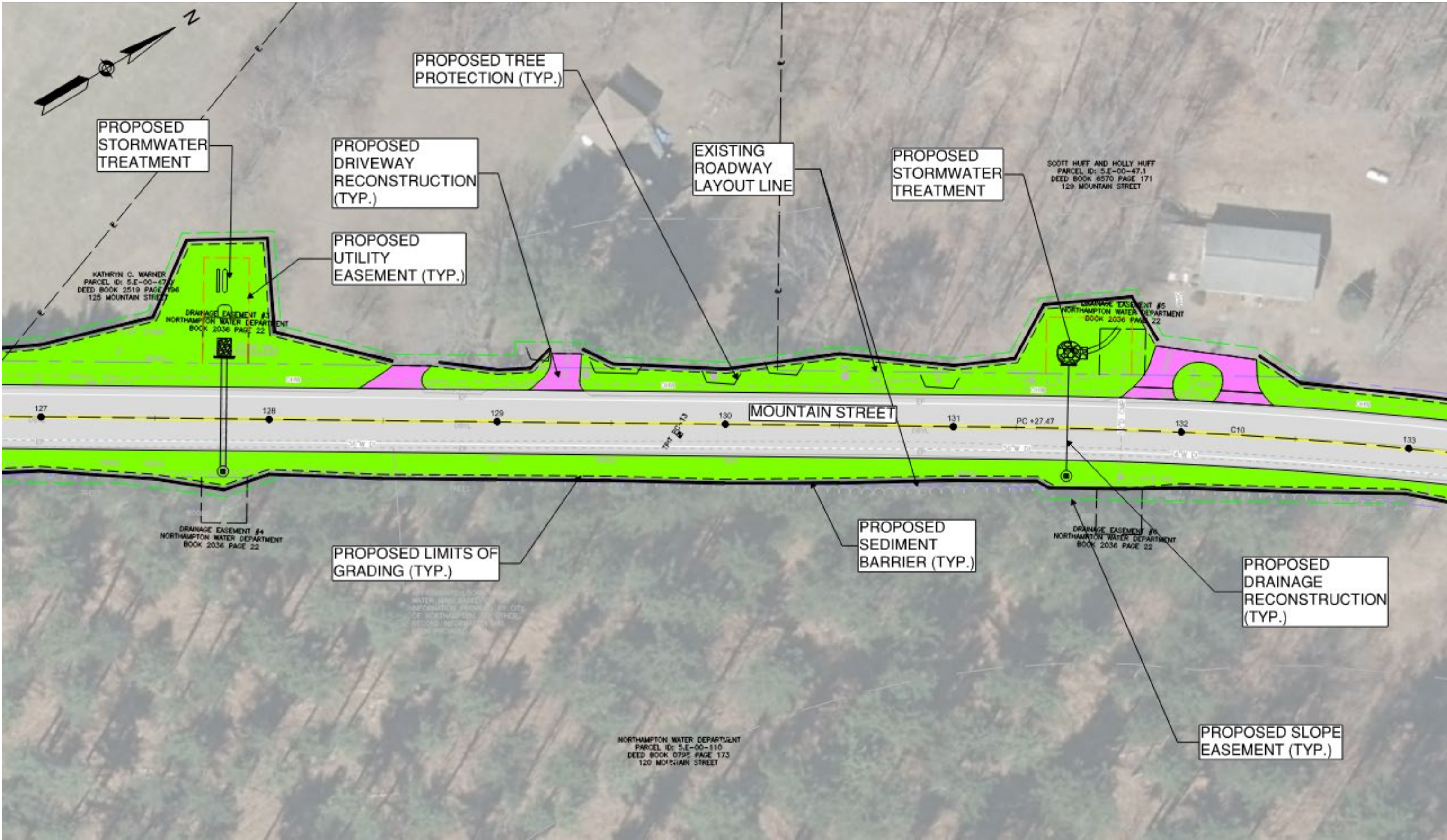


Proposed Improvements *(continued)*

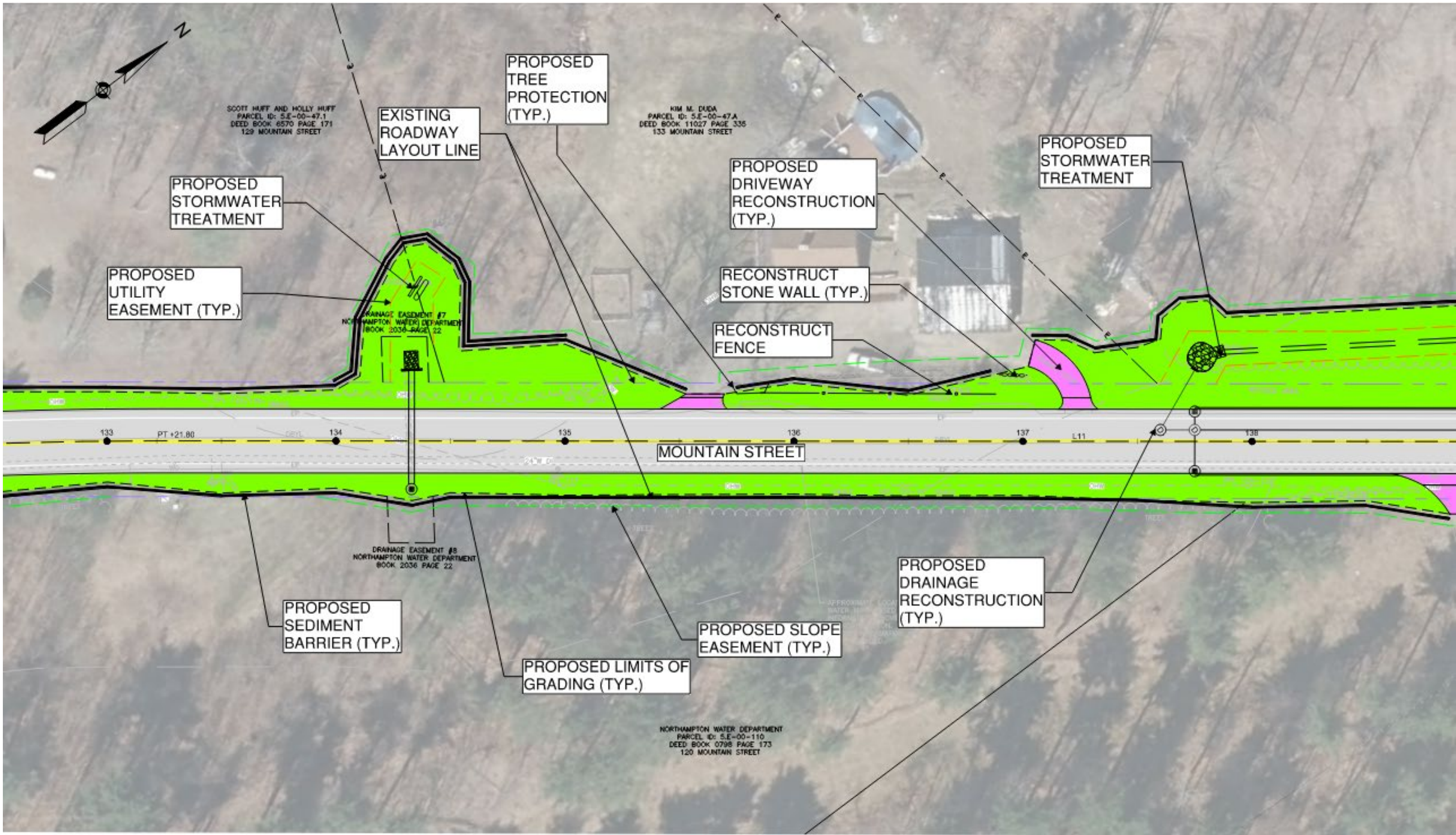
Roadway Plan 21 of 27



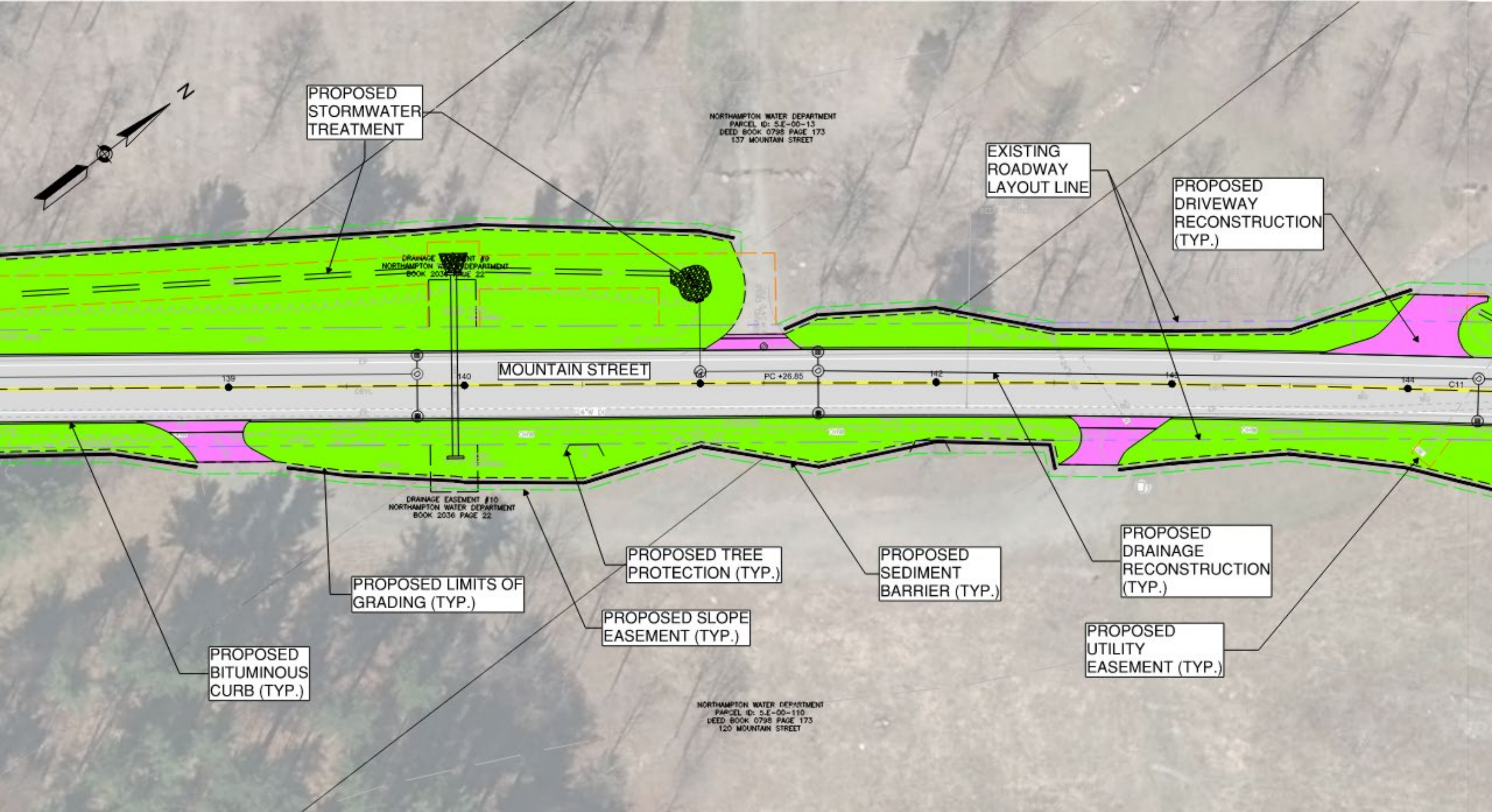
Proposed Improvements (continued) Roadway Plan 22 of 27



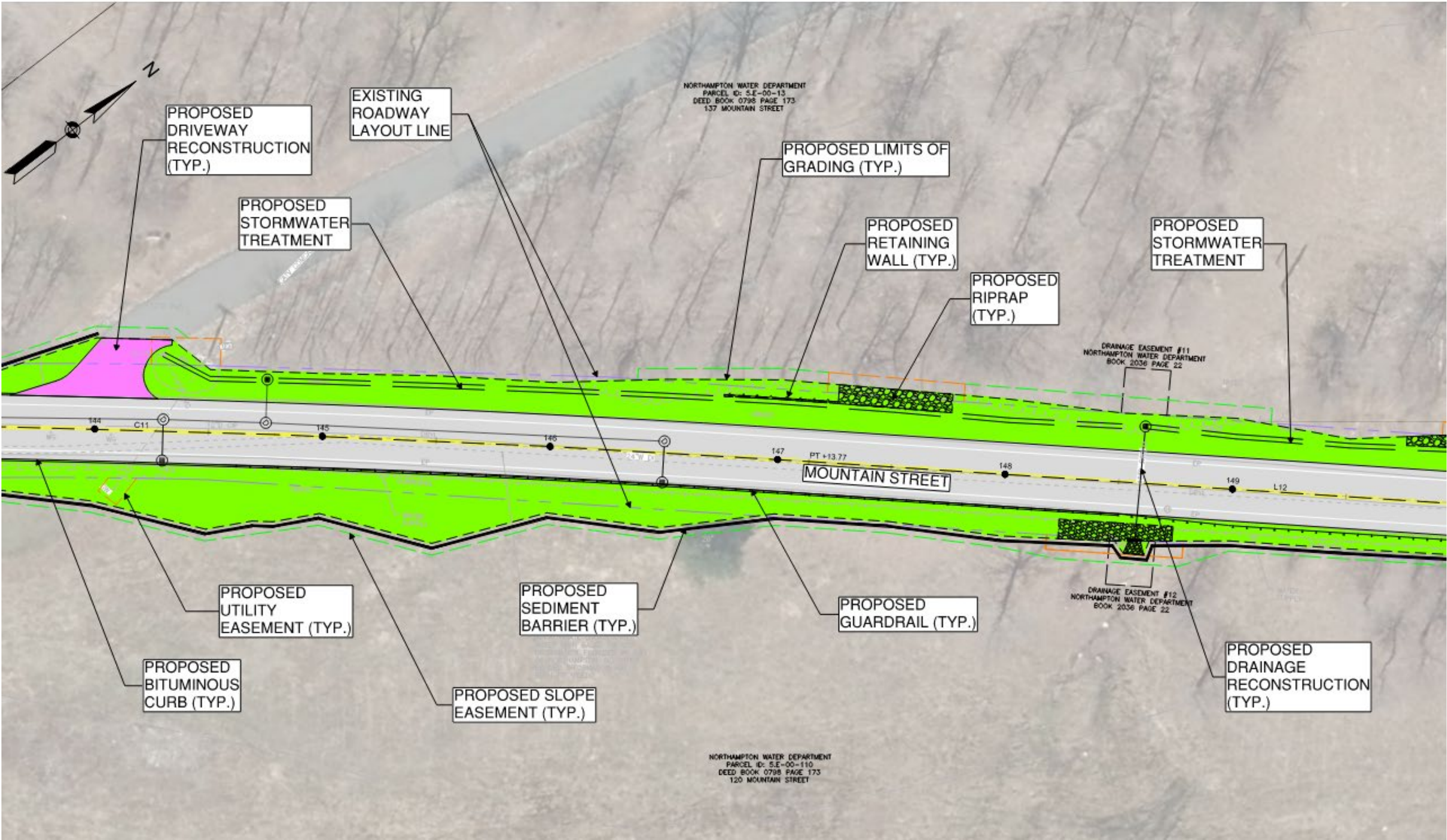
Proposed Improvements (continued) Roadway Plan 23 of 27



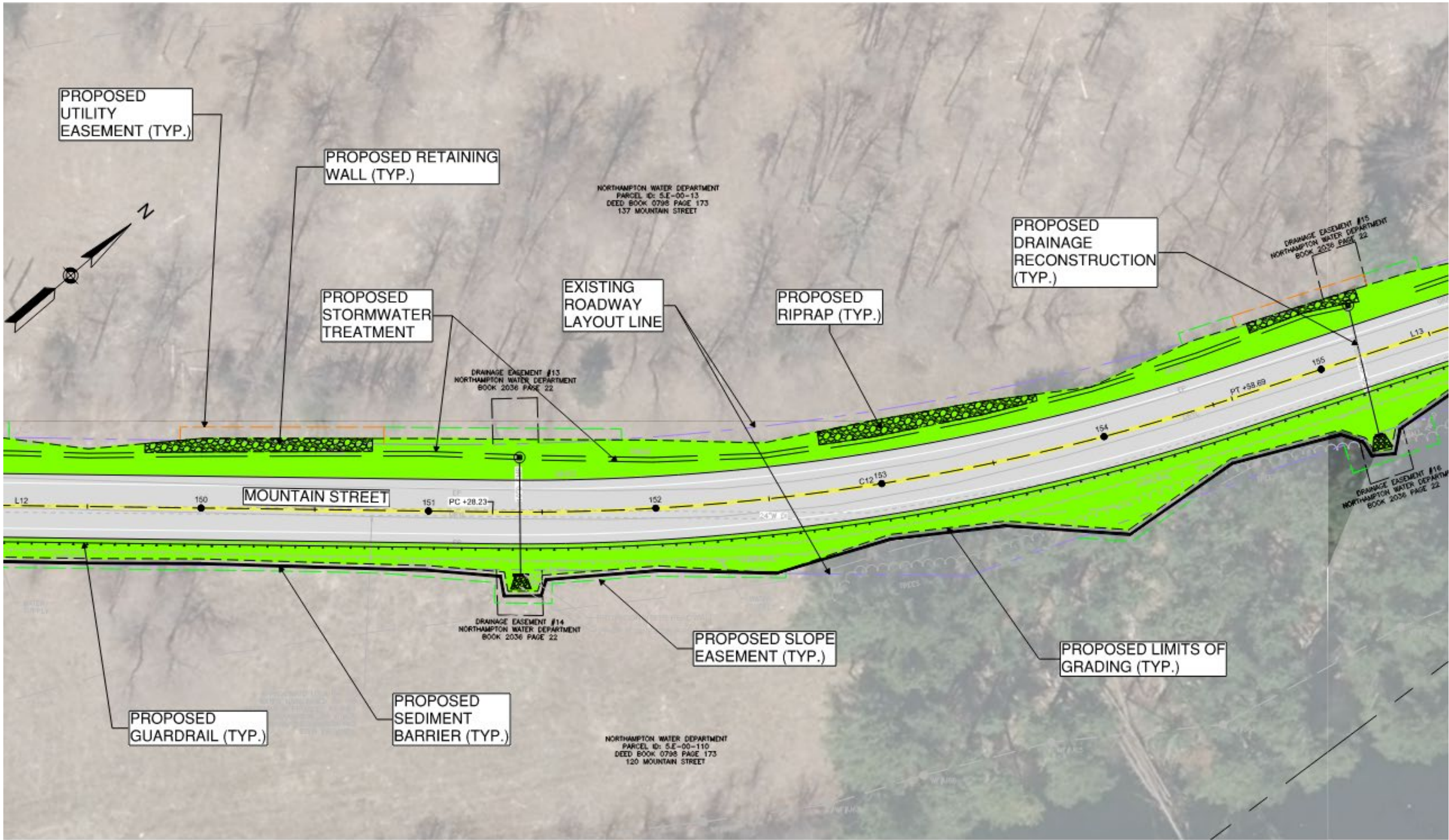
Proposed Improvements *(continued)* Roadway Plan 24 of 27



Proposed Improvements (continued) Roadway Plan 25 of 27

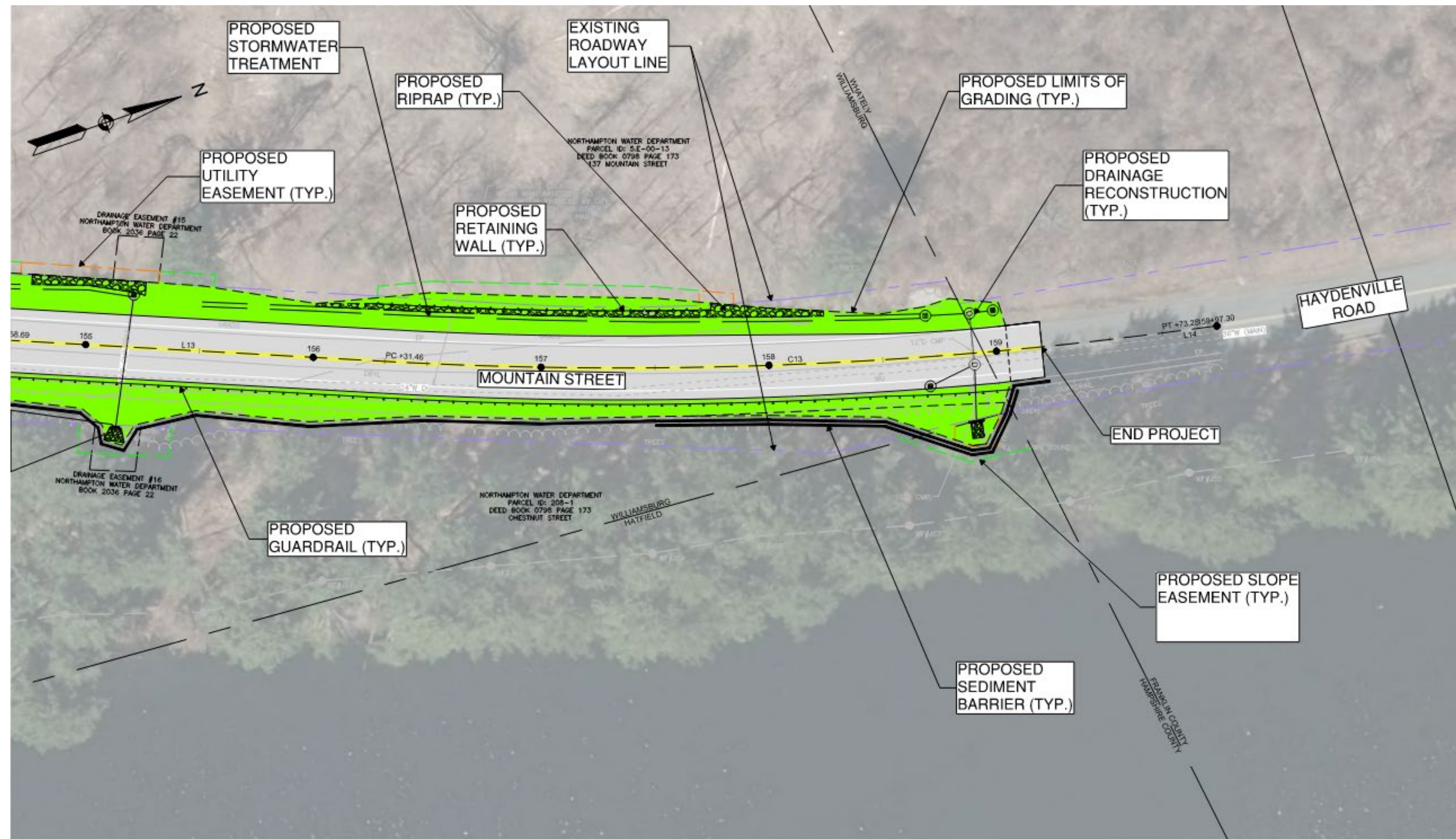


Proposed Improvements (continued) Roadway Plan 26 of 27



Proposed Improvements *(continued)*

Roadway Plan 27 of 27





How will your
property be
impacted?

Right of Way (ROW) Discussion – 25% Design

- Responsible for acquiring all necessary rights in public land for design, construction, and implementation of a project.
- Affected property owners will be contacted by personnel from the Town of Williamsburg ROW Bureau representing MassDOT.
- Procedures must comply with state and federal regulations governing the acquisition process.
 - Property owners are protected under Massachusetts General Laws, primarily Chapter 79.
 - If project receives federal funds, property owners are further protected under the Title III of the Real Property Act of 1970, as amended.
- Fee takings, permanent easements, and/or temporary construction easements are required.



**What are the
environmental,
cultural,
resource, and
community
impacts?**

Environmental Permitting

- MassDOT Oversight
 - MEPA/NEPA
 - Section 106
 - USACE Programmatic General Permit
- Williamsburg Conservation Commission Oversight
 - NOI
- Community member will have opportunities to attend public hearings and comment on permits



**How will the
road user be
affected?**

ALERT: Traffic Impacts

- Two-way Alternating Traffic During Roadway, Drainage and Utilities Work
- Potential Short-Term Detours
- Staged Construction of Culvert
 - Temporary Signal – Two Way Alternating
- Maintain access to abutting properties at all times



Next Steps



Step 1:
25% design public
hearing



Step 2:
File environmental
permits



Step 3:
Complete 75% design



Step 4:
Final design



Step 5:
Advertising date



**How will we
keep you
informed?**

Contact Information

Comments must be submitted in writing within 10 days following the hearing.

- **By Mail:** Patricia A. Leavenworth, PE, Chief Engineer

MassDOT

10 Park Plaza, Boston, MA 02166

Attention: Major Projects, Project File No. 607231

- **By email:** dot.feedback.highway@state.ma.us

Subject Line: Attention: Public Hearing Webinar Comments: Project File No. 607231

- **Website address (Project Handout Form)**

<https://www.mass.gov/orgs/Massachusetts-department-of-transportation>



Questions and Discussion

Questions and answers

Instructions

- To comment, please click the **“Participants”** button at the bottom of your screen, then click the **“Raise Hand”** button (see below). Kindly wait for the moderator to recognize and call on you before speaking, you will be unmuted at this time.



- If you prefer to type your question in the Q&A box it will be answered in the order received and read out by the moderator to the project team.
- To ask a question via phone, dial *9 and the moderator will call out the last 4-digits of your phone number and unmute your audio when it is your turn.

Please share only one question or comment at a time, limited to 2 minutes, to allow others to participate.



Thank You

Reconstruction of Mountain Street

Williamsburg | June 16, 2021 | 7:00 pm

Project File No. 607231

Project Manager: Greg Frazier

