



# COMMONWEALTH OF MASSACHUSETTS DEPARTMENT OF CONSERVATION AND RECREATION DIVISION OF PLANNING AND ENGINEERING

CONCEPTUAL ROADWAY IMPROVEMENTS  
QUINOBEQUIN ROAD  
IN NEWTON  
MASSACHUSETTS  
MIDDLESEX COUNTY

DCR CONTRACT NO. P20-3361-D7A

CHARLES D. BAKER, GOVERNOR

KARYN E. POLITO, LT. GOVERNOR

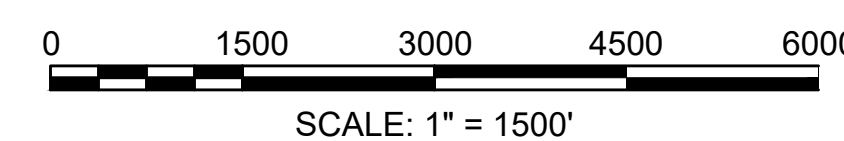
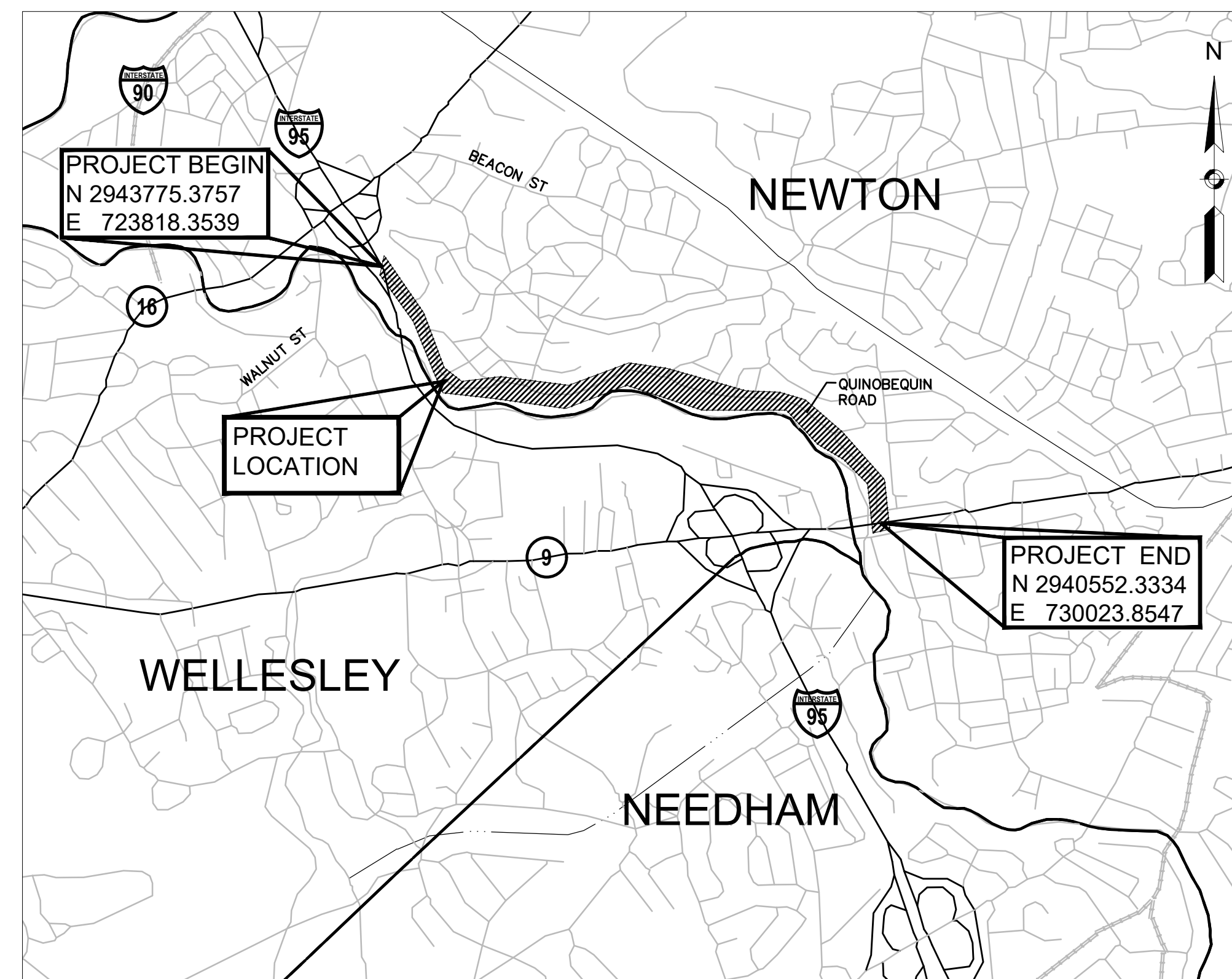
KATHLEEN A. THEOHARIDES, SECRETARY,  
EXECUTIVE OFFICE OF ENERGY & ENVIRONMENTAL AFFAIRS

JIM MONTGOMERY, COMMISSIONER  
DEPARTMENT OF CONSERVATION & RECREATION

PATRICE KISH, CHIEF ENGINEER  
DEPARTMENT OF CONSERVATION & RECREATION

### INDEX

SHEET NO.	DESCRIPTION
G-01	TITLE SHEET & INDEX
K-01	KEY PLAN
TS-01	TYPICAL SECTIONS
S-01 - S-07	SITE ANALYSIS PLANS
C-01 - C-07	CONSTRUCTION PLANS



LENGTH OF PROJECT = 1.5 MILES  
NOVEMBER 2020

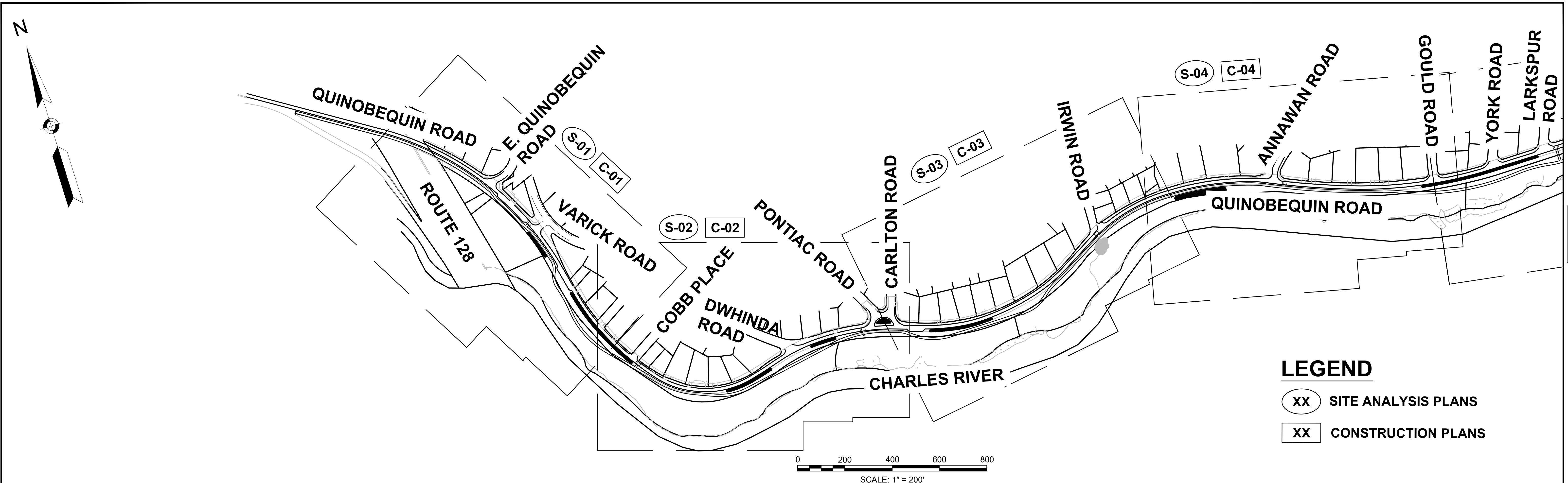
**CONCEPTUAL DESIGN  
NOT FOR CONSTRUCTION**

REV.	DATE	DESCRIPTION	BY



COMMONWEALTH OF MASSACHUSETTS  
DEPARTMENT OF CONSERVATION AND RECREATION  
DIVISION OF PLANNING AND ENGINEERING

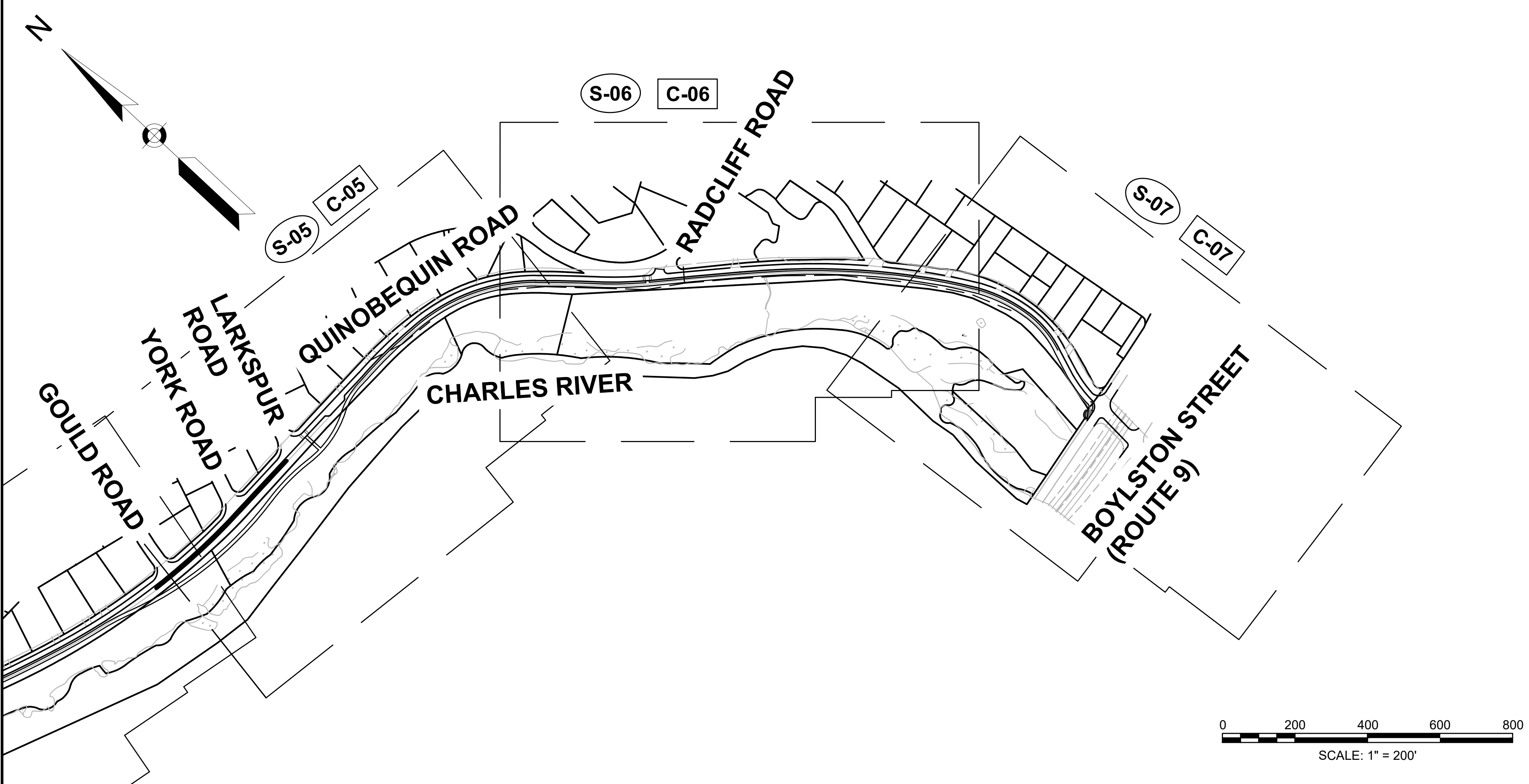
CONCEPTUAL ROADWAY IMPROVEMENTS		SHEET NO.
QUINOBEQUIN ROAD NEWTON, MA		G-01
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**LEGEND**

(XX) SITE ANALYSIS PLANS

(XX) CONSTRUCTION PLANS



**LEGEND**

(XX) SITE ANALYSIS PLANS

(XX) CONSTRUCTION PLANS

CONTINUED ABOVE

REV.	DATE	DESCRIPTION	BY



COMMONWEALTH OF MASSACHUSETTS  
DEPARTMENT OF CONSERVATION AND RECREATION  
DIVISION OF PLANNING AND ENGINEERING

CONCEPTUAL ROADWAY IMPROVEMENTS

QUINOBEQUIN ROAD  
NEWTON, MA

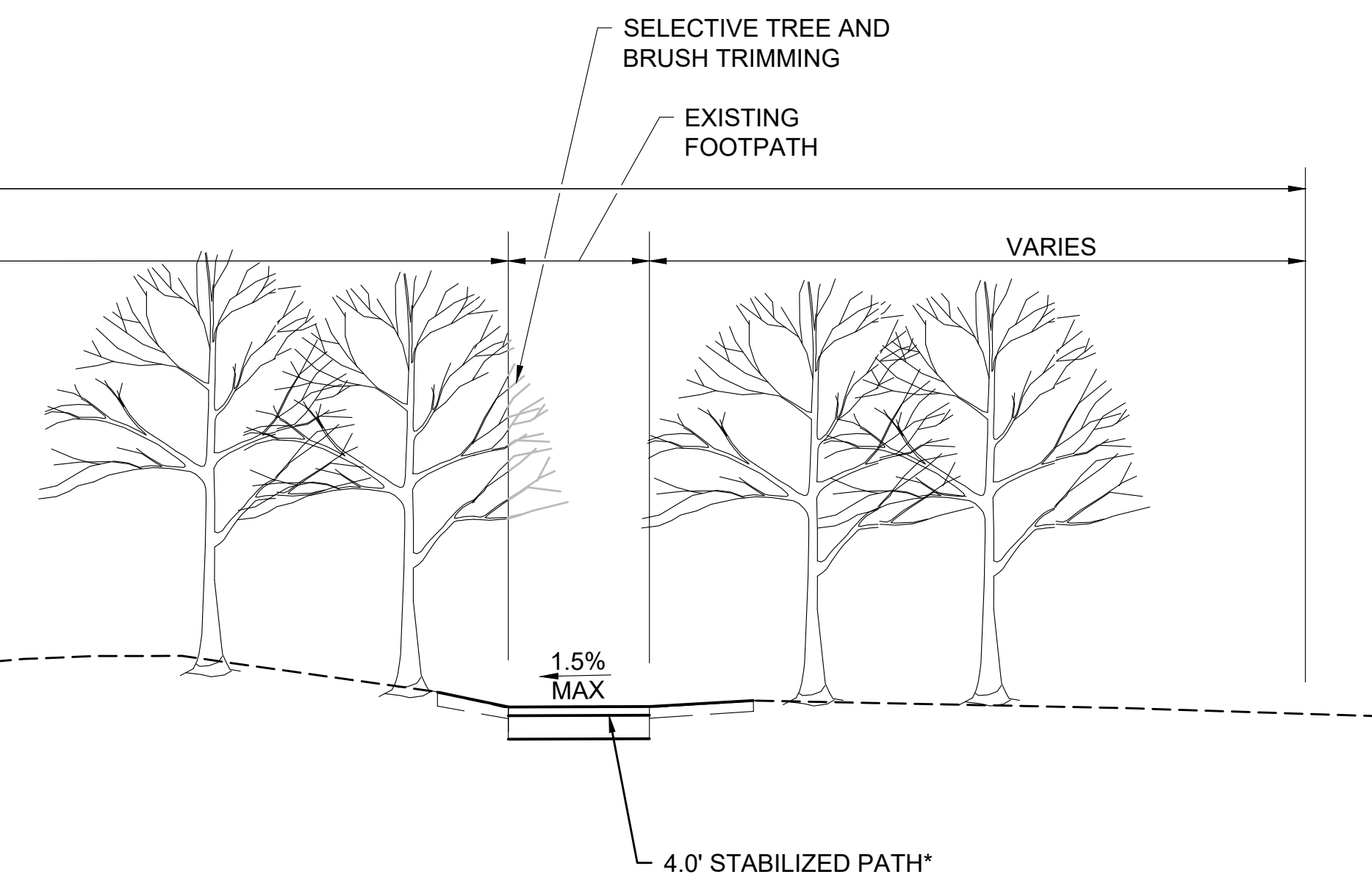
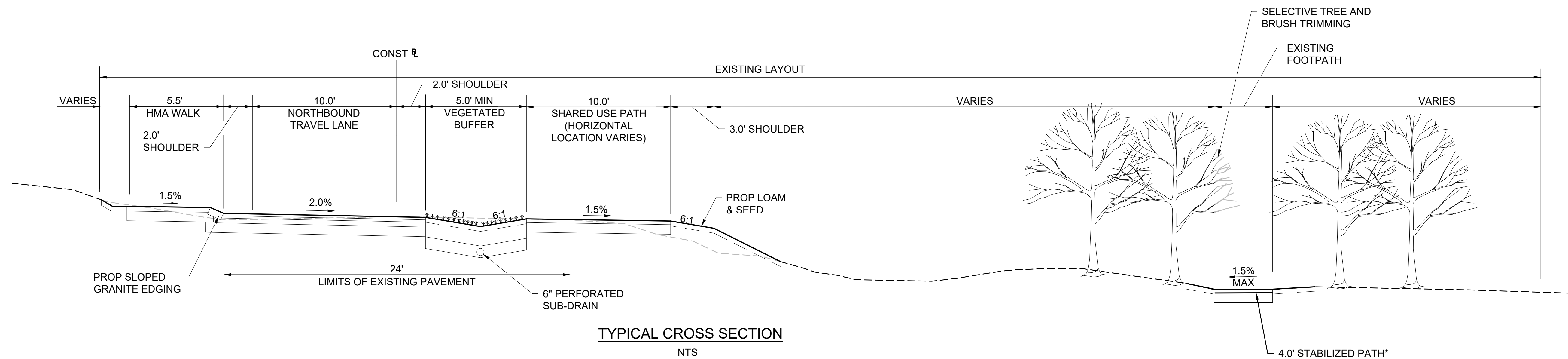
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CHECKED: PTS

KEY PLAN

CONT: P20-3361-D7A  
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SCALE: 1" = 200'-0"  
DATE: NOV. 2020

SHEET NO.  
K-01  
2 OF 17



**NOTES:**

THE FOLLOWING PLANS HAVE BEEN PUT TOGETHER AS A RESULT OF INPUT FROM FROM DCR STAFF, CITY OF NEWTON, MASSDOT, LOCAL LEGISLATORS, PROJECT ABUTTERS AND PROJECT STAKEHOLDERS. AS A RESULT OF THE INPUT, ALTERNATIVE 1 (21<sup>ST</sup> CENTURY PARKWAY) WAS SELECTED AS THE PREFERRED ALTERNATIVE. THE CONCEPTUAL PLANS INCLUDED HEREIN DOCUMENT THE THE EXISTING CORRIDOR CONDITIONS AND DEFICIENCIES ALONG WITH PREFERRED ALTERNATIVE FOR FUTURE IMPROVEMENTS.

**1. DESIGN GUIDELINES:**

- DCR HISTORIC PRESERVATION TREATMENT GUIDELINES
  - MASSDOT 2006 PROJECT DEVELOPMENT & DESIGN GUIDELINES
    - o COMPLETE STREETS
    - o AMERICAN ASSOCIATION OF HIGHWAY AND TRANSPORTATION OFFICIALS (AASHTO)
    - o ROADSIDE DESIGN GUIDE
    - o GEOMETRIC DESIGN OF HIGHWAYS AND STREETS (2018)
  - MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD)
  - FEDERAL AND STATE SEPARATED BIKE LANE PLANNING AND DESIGN GUIDE
  - U.S. FOREST SERVICE TRAIL ACCESSIBILITY GUIDELINES (FSTAG)
- 2. ARCHEOLOGICAL RESOURCE PRESERVATION:** THE CHARLES RIVER SHORELINE IS HIGHLY SENSITIVE FOR THE PRESENCE OF ARCHEOLOGICAL RESOURCES. THE PROJECT TEAM HAS UTILIZED THE CITY OF NEWTON'S ARCHEOLOGICAL SURVEY AS A REFERENCE. SPECIFIC ARCHEOLOGICAL AREAS WITHIN THE PROJECT LIMITS ARE NOT CURRENTLY KNOWN. PREFERRED ALTERNATIVE SHALL MINIMIZE EXCAVATIONS FOR CONSTRUCTION ACTIVITIES BETWEEN THE ROADWAY AND THE RIVER'S EDGE.
- 3. HISTORIC PARKWAY CHARACTER IMPACTS:** QUINOBEQUIN ROAD IS LISTED ON THE NATIONAL REGISTER OF HISTORIC PLACES. PREFERRED ALTERNATIVE SHALL MINIMIZE CHANGES TO THE CHARACTER OF THE PARKWAY AND ITS SETTING.
- 4. NATURAL RESOURCE PRESERVATION:** THE PROJECT WILL REQUIRE PERMITTING PURSUANT TO THE MASSACHUSETTS WETLAND PROTECTION ACT (WPA) AND THE FEDERAL CLEAN WATER ACT (CWA).
- THE WOODED AREAS ALONG QUINOBEQUIN ROAD CONTAIN MANY VEGETATED WETLANDS AND SMALL TRIBUTARY STREAMS ASSOCIATED WITH THE CHARLES RIVER. AREAS SUBJECT TO REGULATION UNDER THE WPA IN THE VICINITY OF QUINOBEQUIN ROAD CONSIST OF:
    - o BORDERING VEGETATED WETLAND (BVW)
    - o BANK (ASSOCIATED WITH THE CHARLES RIVER AND ADJACENT STREAMS)
    - o LAND UNDER WATERBODIES AND WATERWAYS (LUWW)
    - o BORDERING LAND SUBJECT TO FLOODING (BLSF) (100-YEAR FLOODPLAIN)
    - o 200-FOOT RIVERFRONT AREA
  - IMPACTS TO VEGETATED WETLAND RESOURCE AREAS WOULD REQUIRE REPLICATION AT A RATIO OF 1:1.
  - WORK IN BLSF WILL REQUIRE COMPENSATORY FLOOD STORAGE TO COMPENSATE FOR ANY FILL IN FLOODPLAIN.
  - THE ENTIRETY OF THE PROJECT LIMITS LIE WITHIN THE 200-FOOT RIVERFRONT AREA WHICH EXTEND FROM THE LIMITS OF MEAN ANNUAL HIGH WATER ASSOCIATED WITH THE CHARLES RIVER.
  - THE PROJECT WILL REQUIRE SUBMITTING THE FOLLOW PERMIT APPLICATIONS:
    - o A NOTICE OF INTENT WILL NEED TO BE SUBMITTED TO THE NEWTON CONSERVATION AND MASSDEP PURSUANT TO THE WPA.
    - o WORK IN FEDERALLY JURISDICTIONAL RESOURCES WILL REQUIRE SUBMISSION OF A SELF-VERIFICATION NOTIFICATION (SVN) TO THE US ARMY CORPS OF ENGINEERS PURSUANT TO SECTION 404 OF THE CWA.
    - o COORDINATION WITH THE MASSACHUSETTS WATER RESOURCES AUTHORITY (MWRA) AN MWRA 8M

- 5. ACCESSIBILITY:** PROVIDE COMPLIANT SIDEWALKS, WALKING PATHS, RAMPS, CROSSWALKS, OVERLOOKS ETC, MEETING THE APPLICABLE ACCESSIBILITY GUIDELINES. THESE INCLUDE:
- MASSACHUSETTS ARCHITECTURAL ACCESS BOARD REGULATIONS 521 CMR
  - ADA STANDARDS FOR ACCESSIBLE DESIGN (ADASAD)
  - PUBLIC RIGHT-OF WAY ACCESSIBILITY GUIDELINES (PROWAG)
  - FOREST SERVICE TRAIL ACCESSIBILITY GUIDELINES (FSTAG)
- 6. STORMWATER:** THE FOLLOWING ISSUES WILL HAVE TO BE PURSUED IN THE SUBSEQUENT DESIGN EFFORTS:
- ALL STORMWATER INFRASTRUCTURE WILL NEED TO ACHIEVE 67% PHOSPHOROUS REMOVAL, AS THE CHARLES RIVER HAS A TMDL FOR PHOSPHOROUS.
  - OVERFLOW DISCHARGES WILL BE NEEDED FOR THE INFILTRATION SWALES DUE TO THE SOILS AND HIGH GROUNDWATER IN THE PROJECT AREA.
  - MAINTENANCE OPERATIONS SHOULD BE CONSIDERED WHEN DESIGNING SWALES AND ALL OTHER DRAINAGE INFRASTRUCTURE.
  - NO EXISTING DRAINAGE INFRASTRUCTURE SHOULD BE UTILIZED DUE TO THE POOR CONDITION. ANY INFRASTRUCTURE NEEDED IN ADDITION TO THE INFILTRATION SWALES SHALL BE NEW.
  - MOST OUTFALLS WITHIN THE PROJECT LIMITS ARE OWNED BY THE CITY OF NEWTON. COLLABORATION WITH THE CITY WILL BE REQUIRED TO REPLACE, REPAIR, OR IMPROVE HEADWALLS.
  - EXISTING CONNECTIONS BETWEEN CITY OF NEWTON AND DCR INFRASTRUCTURE SHOULD BE REMOVED WHERE FEASIBLE. SEPARATION OF MUNICIPALITY CONNECTIONS SHOULD BE ASSESSED, AND FLOW PATTERNS SHOULD BE REDESIGNED SUCH THAT NO MUNICIPALITY INFRASTRUCTURE DISCHARGES ONTO DCR INFRASTRUCTURE.
  - ALL STREAM OR DRAINAGE CHANNELS FROM OUTFALLS CLOSE TO QUINOBEQUIN ROAD MUST BE ACCESSED AND REPAIRED IF NEEDED

REV.	DATE	DESCRIPTION	BY

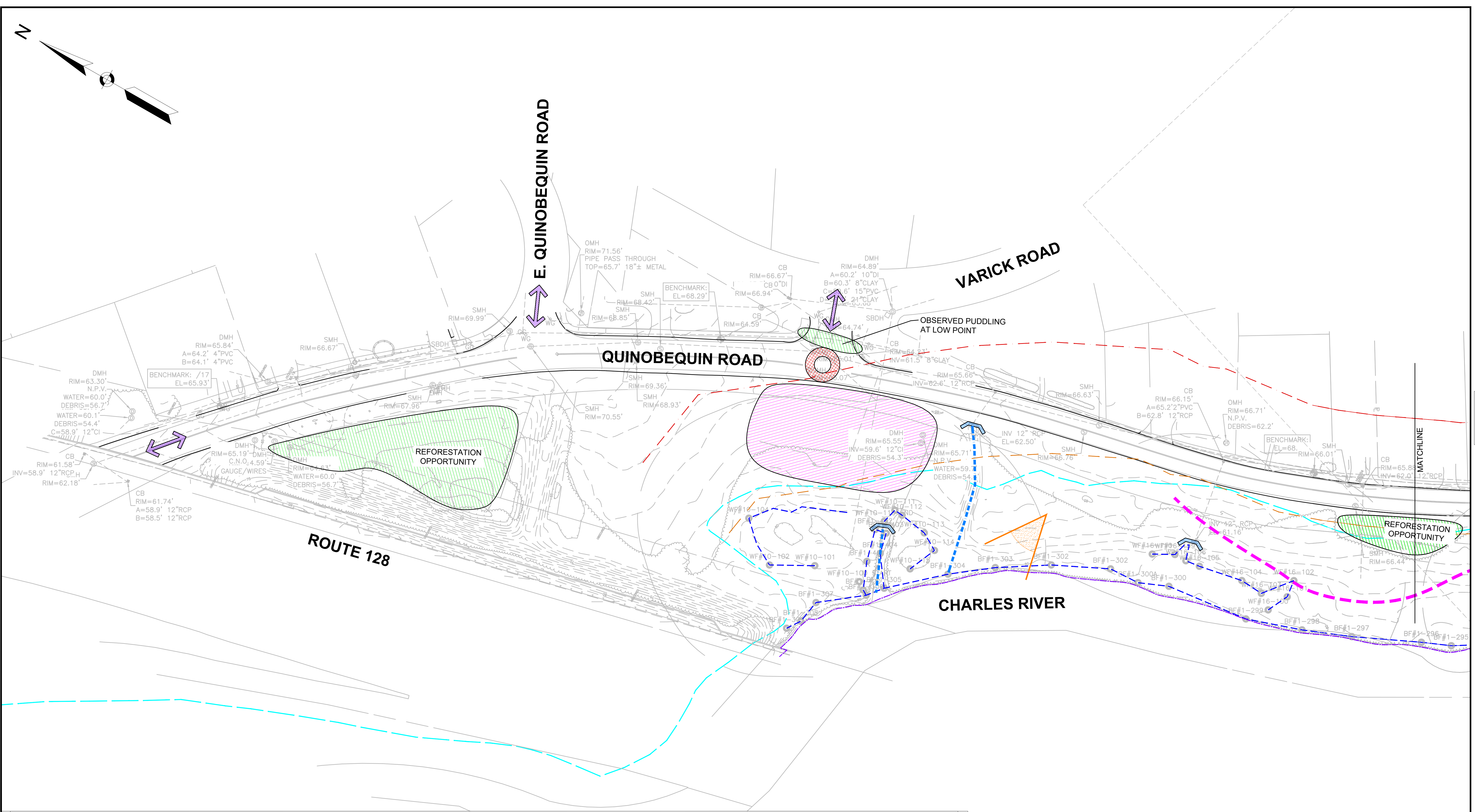


**COMMONWEALTH OF MASSACHUSETTS  
DEPARTMENT OF CONSERVATION AND RECREATION  
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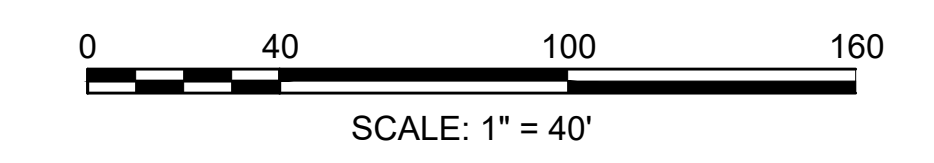
CONCEPTUAL ROADWAY IMPROVEMENTS

QUINOBEQUIN ROAD  
NEWTON, MA

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DRAWN: MES	CONT: P20-3361-D7A	SCALE: 1" = 4'
CHECKED: PTS	ACC: ---	DATE: NOV. 2020
		3 OF 17



LEGEND	
	APPROX. RIVER EDGE
	EDGE OF WETLAND
	100-YEAR FLOOD
	100' RIVER OFFSET
	200' RIVER OFFSET
	EXISTING FOOTPATH
	EXISTING FOOTBRIDGE
	STREAM OR DRAINAGE CHANNEL
	STORWATER OUTFALL
	NEIGHBORHOOD CONNECTION
	STANDARD INTERSECTION SIGHT DISTANCE
	AREA OF NOTE
	STEEP SLOPES
	RIVER VIEWSHED OPPORTUNITY
	PARKING OPPORTUNITY
	POND



REV.	DATE	DESCRIPTION	BY



**COMMONWEALTH OF MASSACHUSETTS  
DEPARTMENT OF CONSERVATION AND RECREATION  
DIVISION OF PLANNING AND ENGINEERING**

**CONCEPTUAL ROADWAY IMPROVEMENTS**

**QUINOBEQUIN RD  
NEWTON, MA**

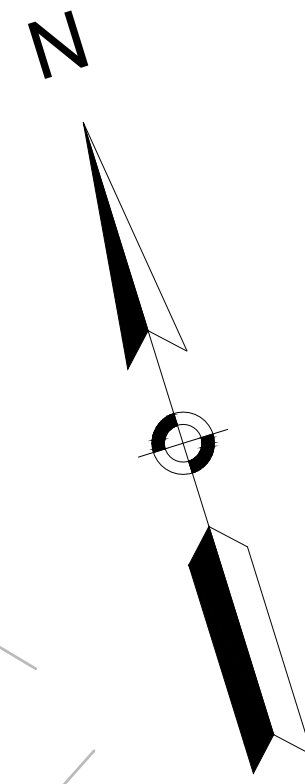
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CHECKED: RW  
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CONT. P20-3361-D7A  
ACC. ---

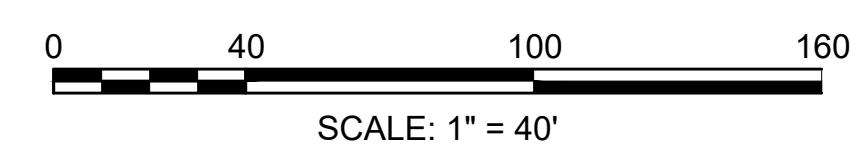
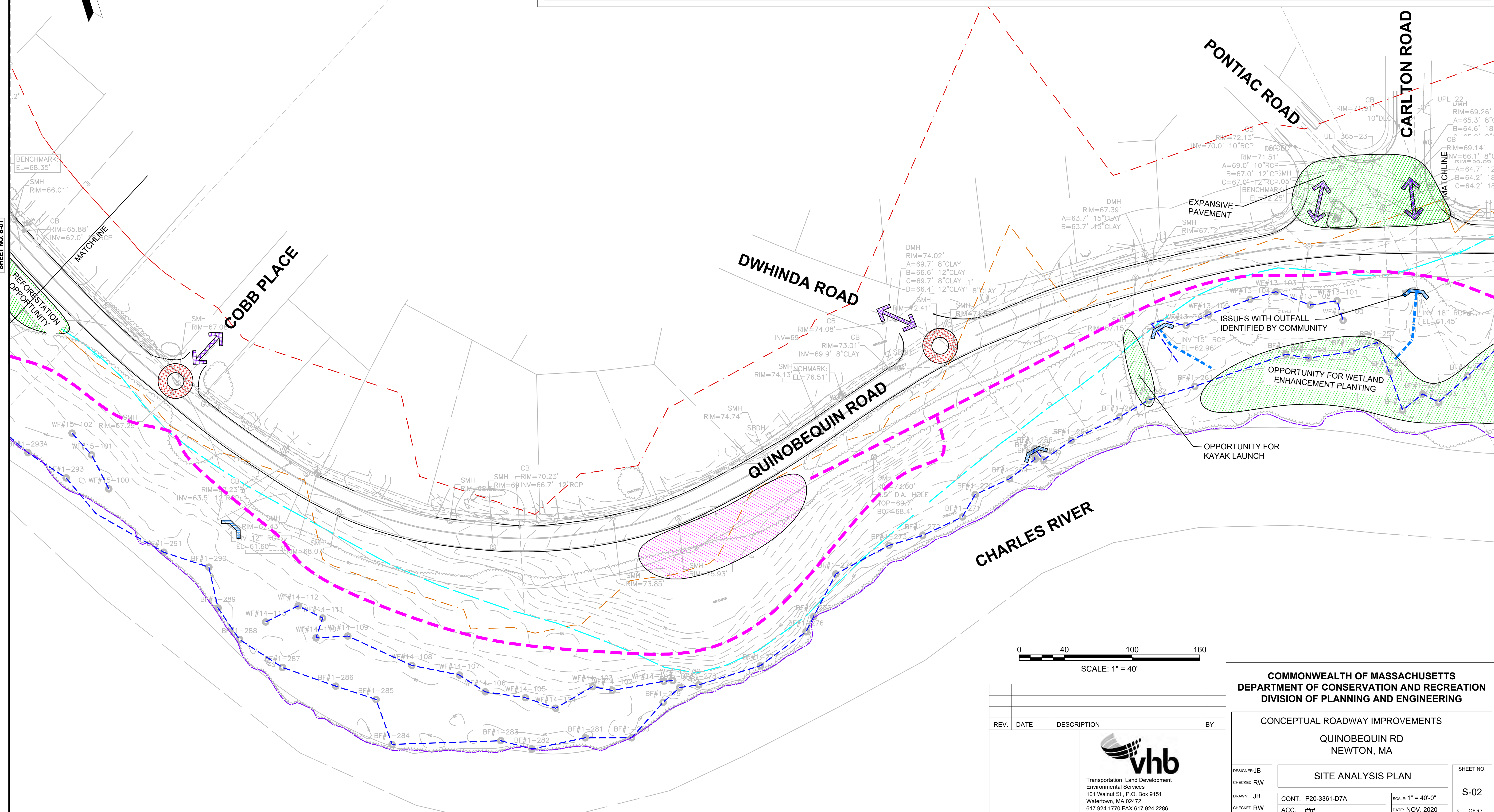
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SHEET NO. S-01  
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**LEGEND**

	APPROX. RIVER EDGE		EXISTING FOOTPATH		NEIGHBORHOOD CONNECTION		RIVER VIEWSHED OPPORTUNITY
	EDGE OF WETLAND		EXISTING FOOTBRIDGE		SUBSTANDARD INTERSECTION SIGHT DISTANCE		PARKING OPPORTUNITY
	100-YEAR FLOOD		STREAM OR DRAINAGE CHANNEL		AREA OF NOTE		POND
	100' RIVER OFFSET		STORWATER OUTFALL		STEEP SLOPES		
	200' RIVER OFFSET						



REV.	DATE	DESCRIPTION	BY



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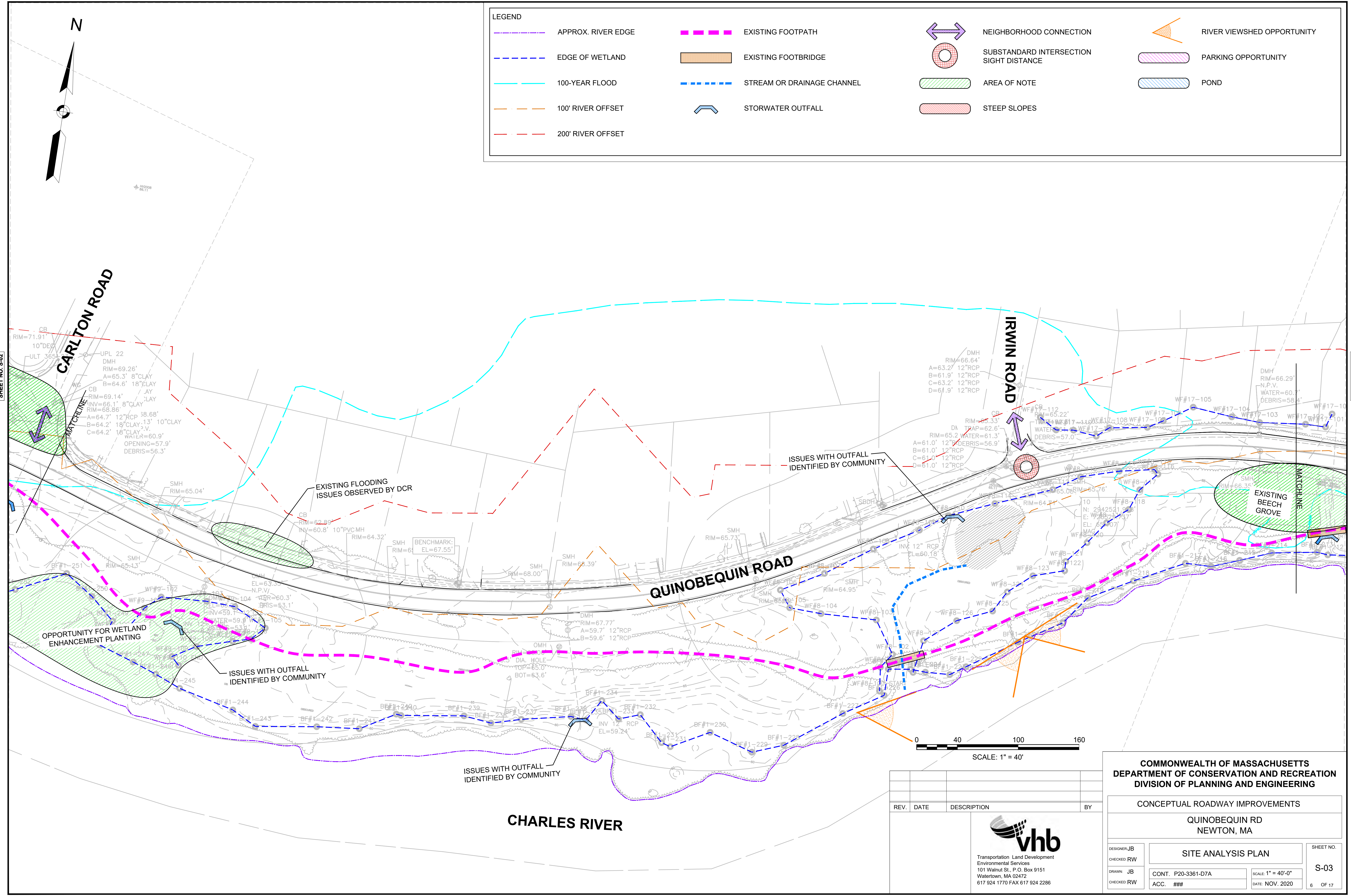
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QUINOBEQUIN RD  
NEWTON, MA**

**SITE ANALYSIS PLAN**

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CHECKED: RW			
DRAWN: JB	ACC. ###	DATE: NOV. 2020	5 OF 17

**LEGEND**

- APPROX. RIVER EDGE
- EDGE OF WETLAND
- 100-YEAR FLOOD
- 100' RIVER OFFSET
- 200' RIVER OFFSET
- EXISTING FOOTPATH
- EXISTING FOOTBRIDGE
- STREAM OR DRAINAGE CHANNEL
- STORWATER OUTFALL
- NEIGHBORHOOD CONNECTION
- SUBSTANDARD INTERSECTION SIGHT DISTANCE
- AREA OF NOTE
- STEEP SLOPES
- RIVER VIEWSHED OPPORTUNITY
- PARKING OPPORTUNITY
- POND



CONTINUED ON SHEET NO. S-02

CONTINUED ON SHEET NO. S-04

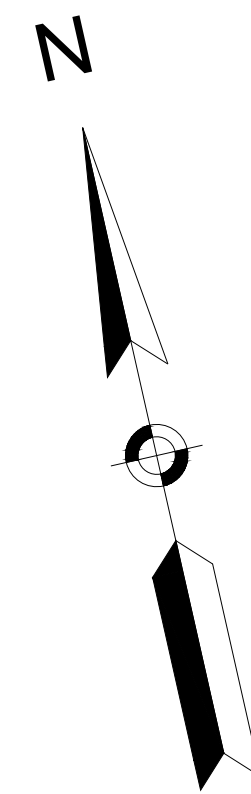
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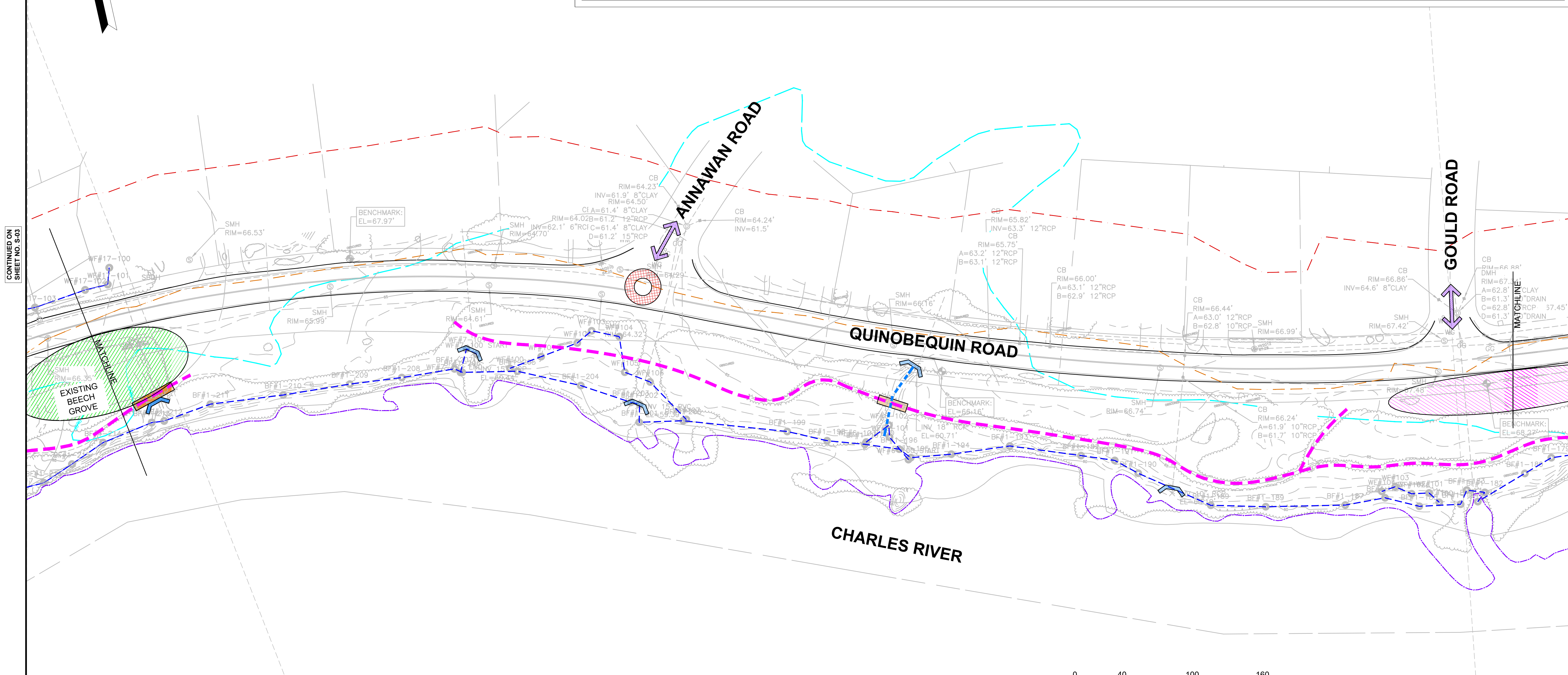
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CONCEPTUAL ROADWAY IMPROVEMENTS  
QUINOBEQUIN RD  
NEWTON, MA

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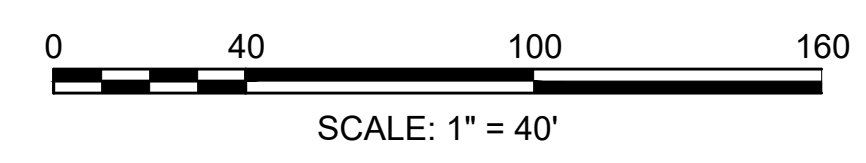


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	EDGE OF WETLAND		EXISTING FOOTBRIDGE		SUBSTANDARD INTERSECTION SIGHT DISTANCE		PARKING OPPORTUNITY
	100-YEAR FLOOD		STREAM OR DRAINAGE CHANNEL		AREA OF NOTE		POND
	100' RIVER OFFSET		STORWATER OUTFALL		STEEP SLOPES		
	200' RIVER OFFSET						



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CONTINUED ON SHEET NO. S-05



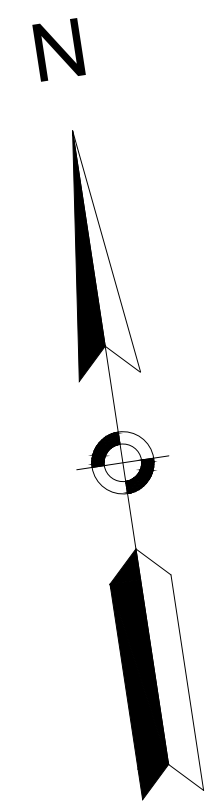
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CONCEPTUAL ROADWAY IMPROVEMENTS  
QUINOBEQUIN RD  
NEWTON, MA

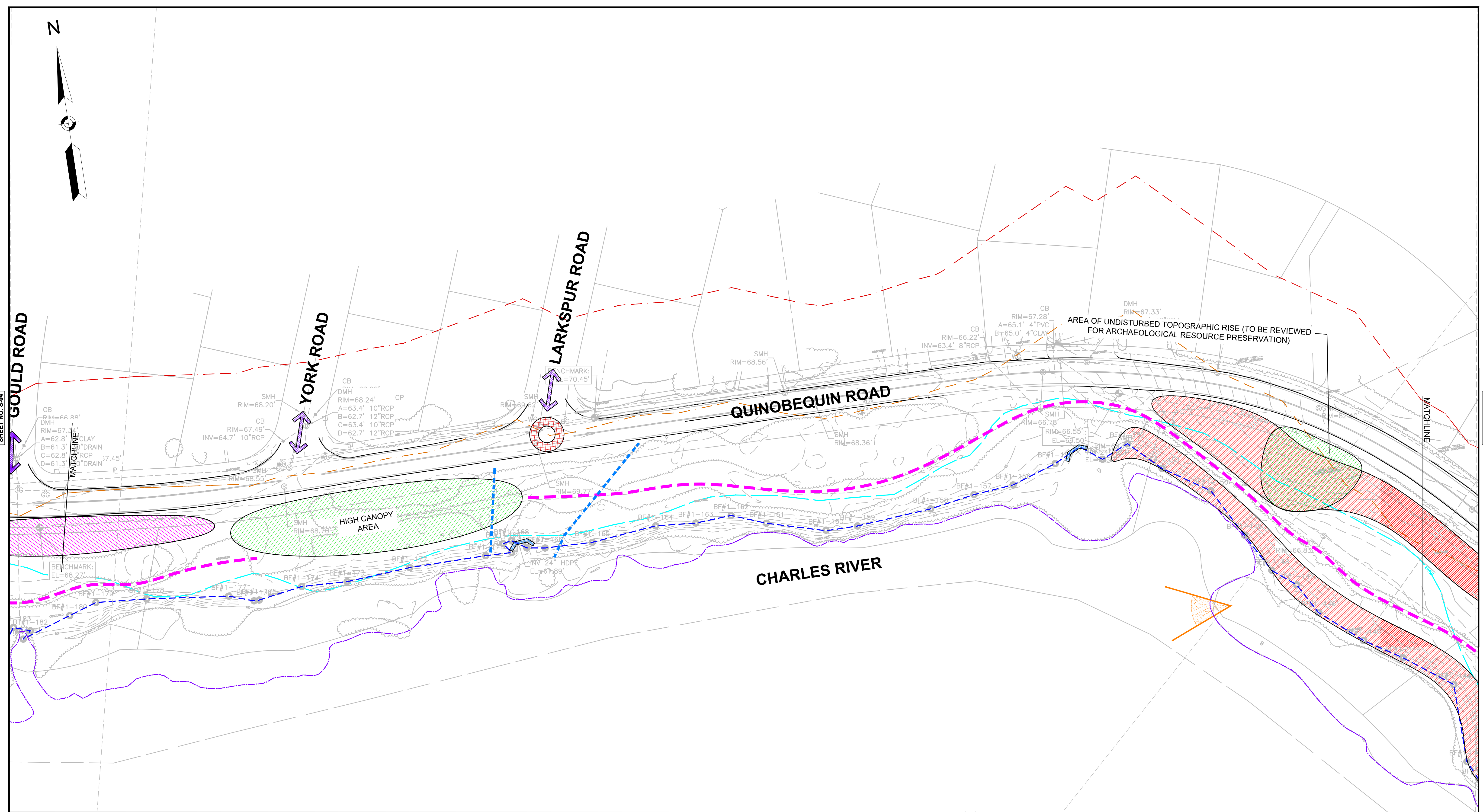
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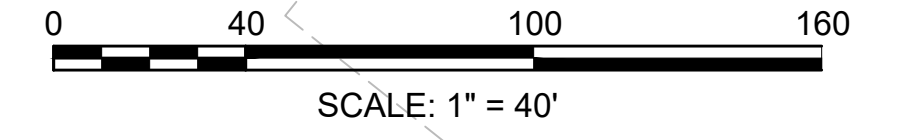
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	EDGE OF WETLAND		EXISTING FOOTBRIDGE
	100-YEAR FLOOD		STREAM OR DRAINAGE CHANNEL
	100' RIVER OFFSET		STORWATER OUTFALL
	200' RIVER OFFSET		NEIGHBORHOOD CONNECTION
			SUBSTANDARD INTERSECTION SIGHT DISTANCE
			AREA OF NOTE
			STEEP SLOPES
			RIVER VIEWSHED OPPORTUNITY
			PARKING OPPORTUNITY
			POND



REV.	DATE	DESCRIPTION	BY



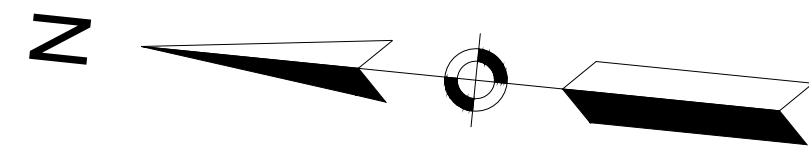
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CONCEPTUAL ROADWAY IMPROVEMENTS  
QUINOBEQUIN RD  
NEWTON, MA

DESIGNER: JB	SITE ANALYSIS PLAN	SHEET NO.
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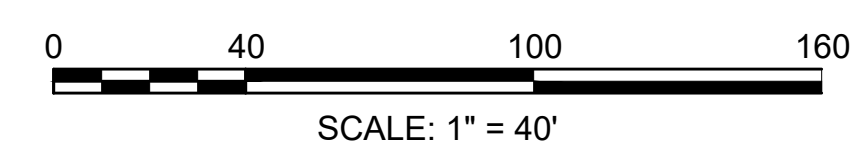
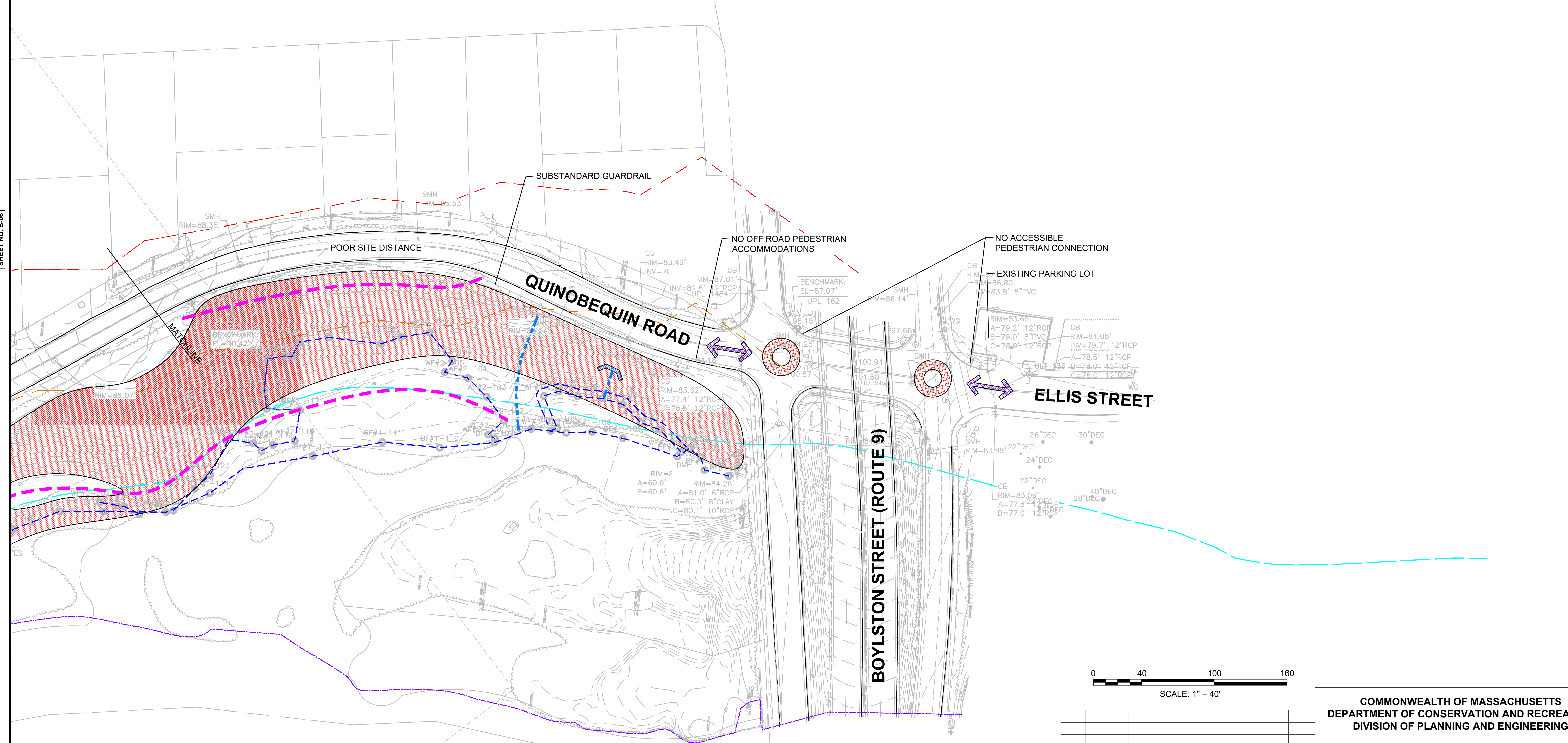




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	EDGE OF WETLAND		EXISTING FOOTBRIDGE		SUBSTANDARD INTERSECTION SIGHT DISTANCE		PARKING OPPORTUNITY
	100-YEAR FLOOD		STREAM OR DRAINAGE CHANNEL		AREA OF NOTE		POND
	100' RIVER OFFSET		STORWATER OUTFALL		STEEP SLOPES		
	200' RIVER OFFSET						

CONTINUED ON SHEET NO. S-06



REV.	DATE	DESCRIPTION	BY



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CONCEPTUAL ROADWAY IMPROVEMENTS  
QUINOBEQUIN RD  
NEWTON, MA

DESIGNER: JB	SITE ANALYSIS PLAN	SHEET NO. <b>S-07</b>
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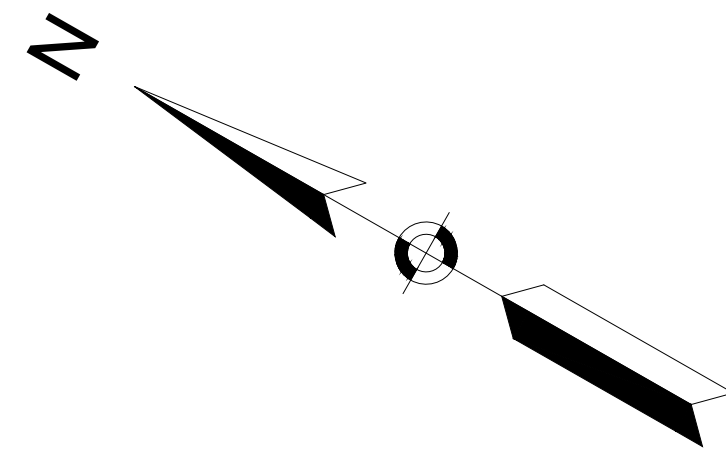
10 OF 17

**CHARLES RIVER**

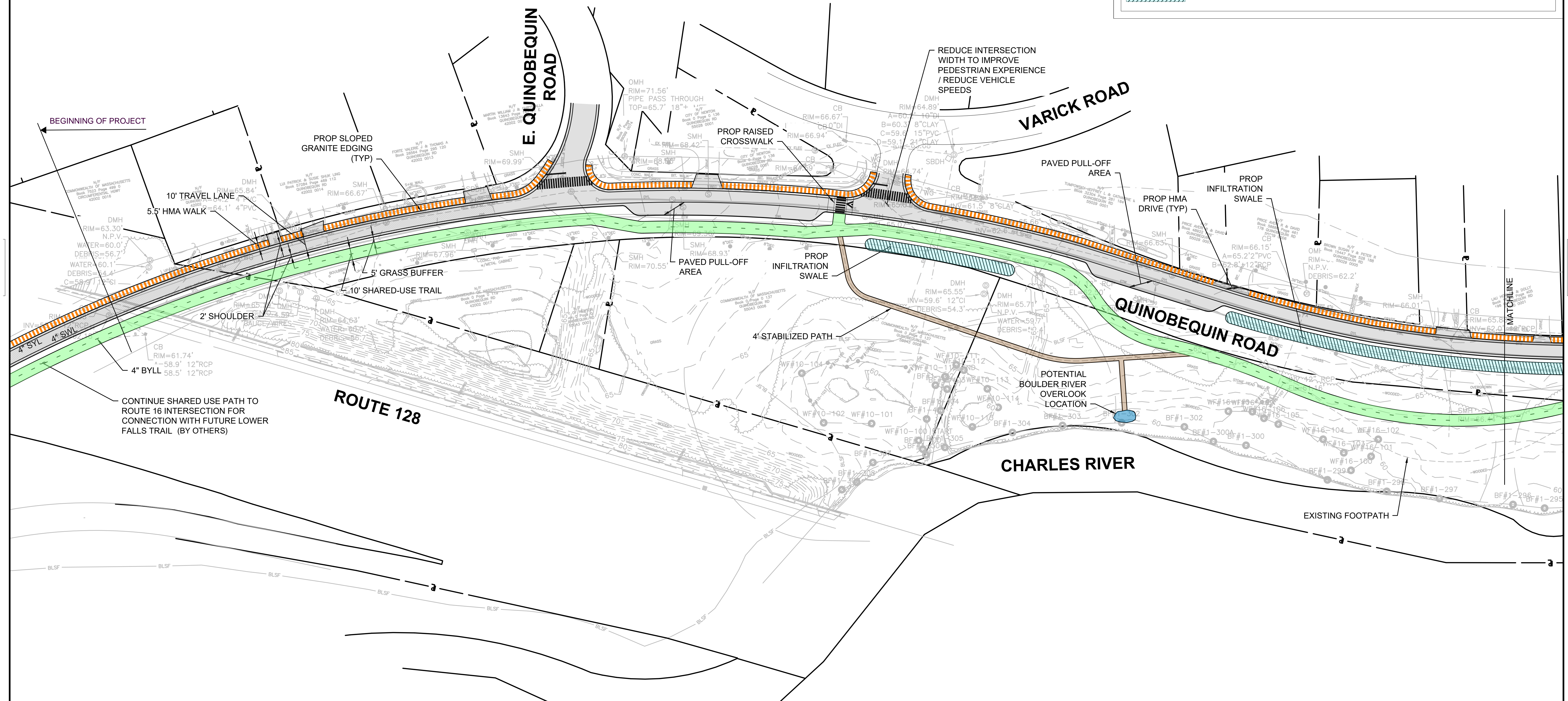
**QUINOBEQUIN ROAD**

**BOYLSTON STREET (ROUTE 9)**

**ELLIS STREET**



LEGEND			
	SHARED-USE TRAIL		UPGRADED STREAM CROSSING
	STABILIZED PATH		AREA TO REMOVE SIDEWALK
	HMA WALK		TRAILHEAD WITH GRANITE PIER
	RIVER BOULDER OVERLOOK LOCATION		HMA PAVEMENT
	INFILTRATION SWALE		



REV.	DATE	DESCRIPTION	BY












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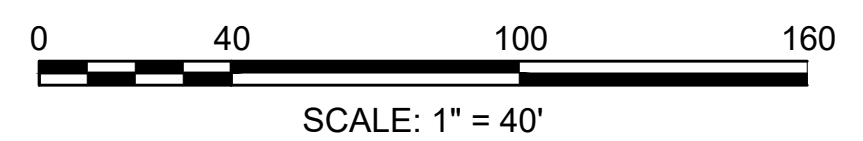
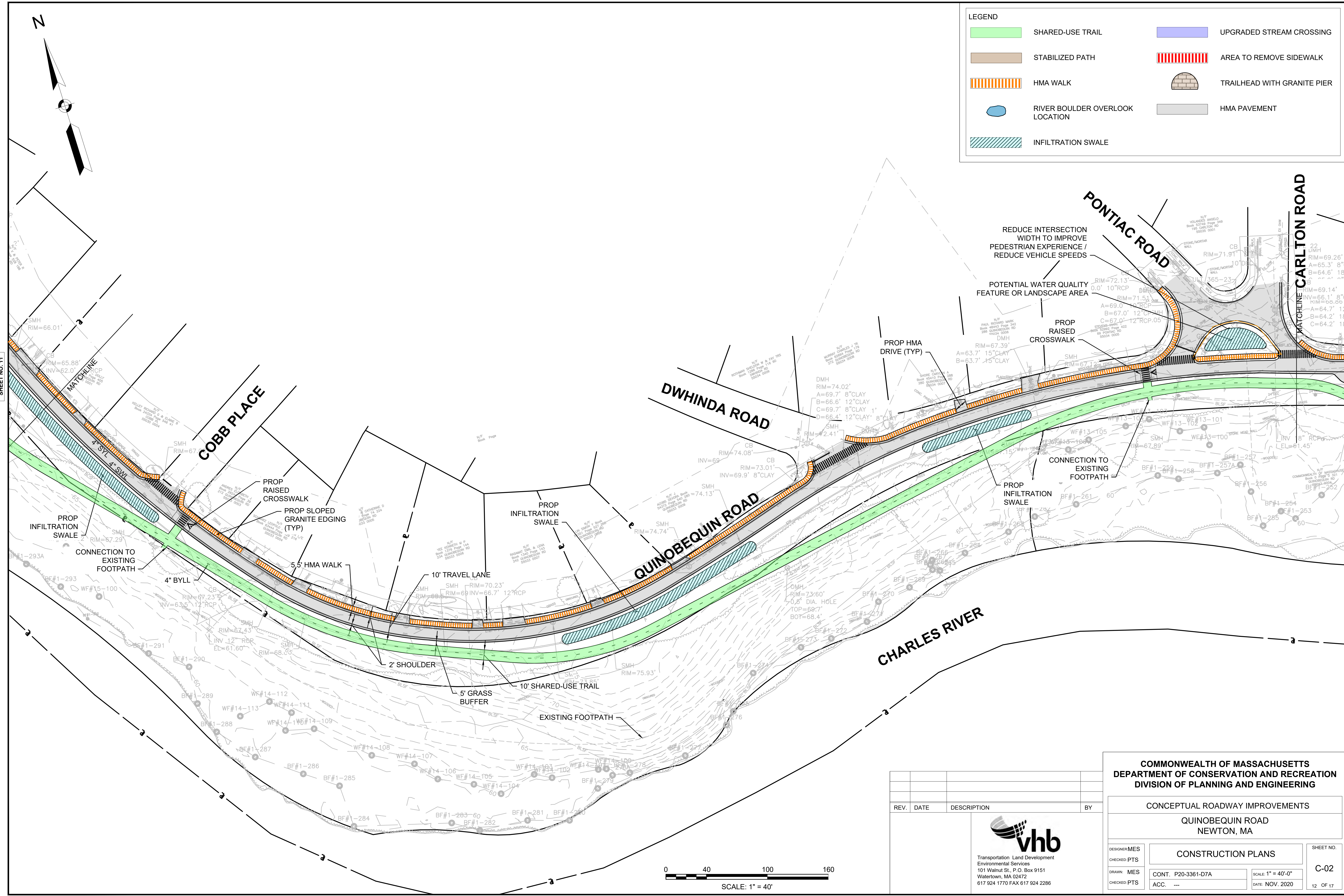
**CONCEPTUAL ROADWAY IMPROVEMENTS  
QUINOBEQUIN ROAD  
NEWTON, MA**

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**LEGEND**

	SHARED-USE TRAIL		UPGRADED STREAM CROSSING
	STABILIZED PATH		AREA TO REMOVE SIDEWALK
	HMA WALK		TRAILHEAD WITH GRANITE PIER
	RIVER BOULDER OVERLOOK LOCATION		HMA PAVEMENT
	INFILTRATION SWALE		



REV.	DATE	DESCRIPTION	BY



Transportation Land Development  
Environmental Services  
101 Walnut St., P.O. Box 9151  
Watertown, MA 02472  
617 924 1770 FAX 617 924 2286

**COMMONWEALTH OF MASSACHUSETTS  
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CONCEPTUAL ROADWAY IMPROVEMENTS  
QUINOBEQUIN ROAD  
NEWTON, MA

CONSTRUCTION PLANS

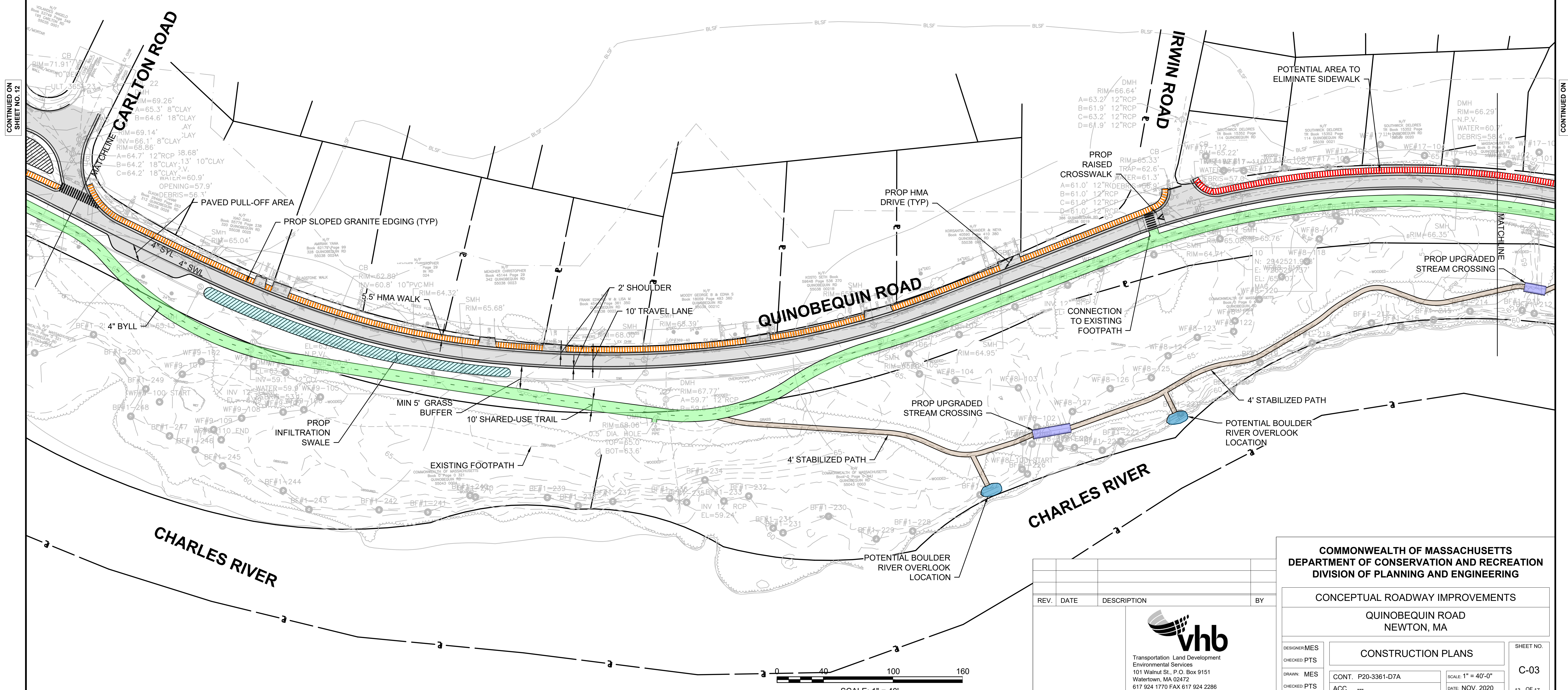
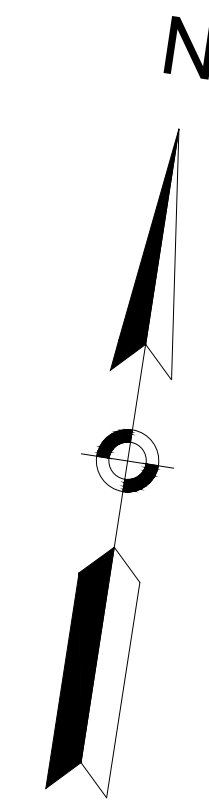
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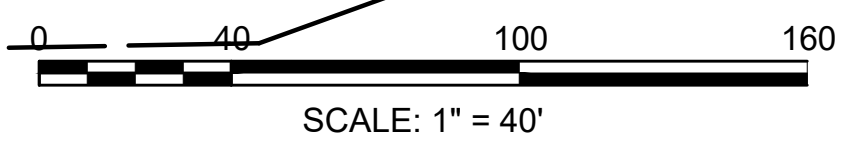
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C-02  
12 OF 17

LEGEND	
	SHARED-USE TRAIL
	STABILIZED PATH
	HMA WALK
	RIVER BOULDER OVERLOOK LOCATION
	INFILTRATION SWALE
	UPGRADED STREAM CROSSING
	AREA TO REMOVE SIDEWALK
	TRAILHEAD WITH GRANITE PIER
	HMA PAVEMENT



CONTINUED ON SHEET NO. 12

CONTINUED ON SHEET NO. 14



REV.	DATE	DESCRIPTION	BY

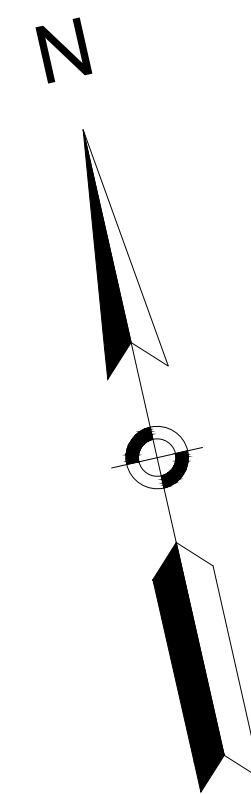


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**DEPARTMENT OF CONSERVATION AND RECREATION**  
**DIVISION OF PLANNING AND ENGINEERING**

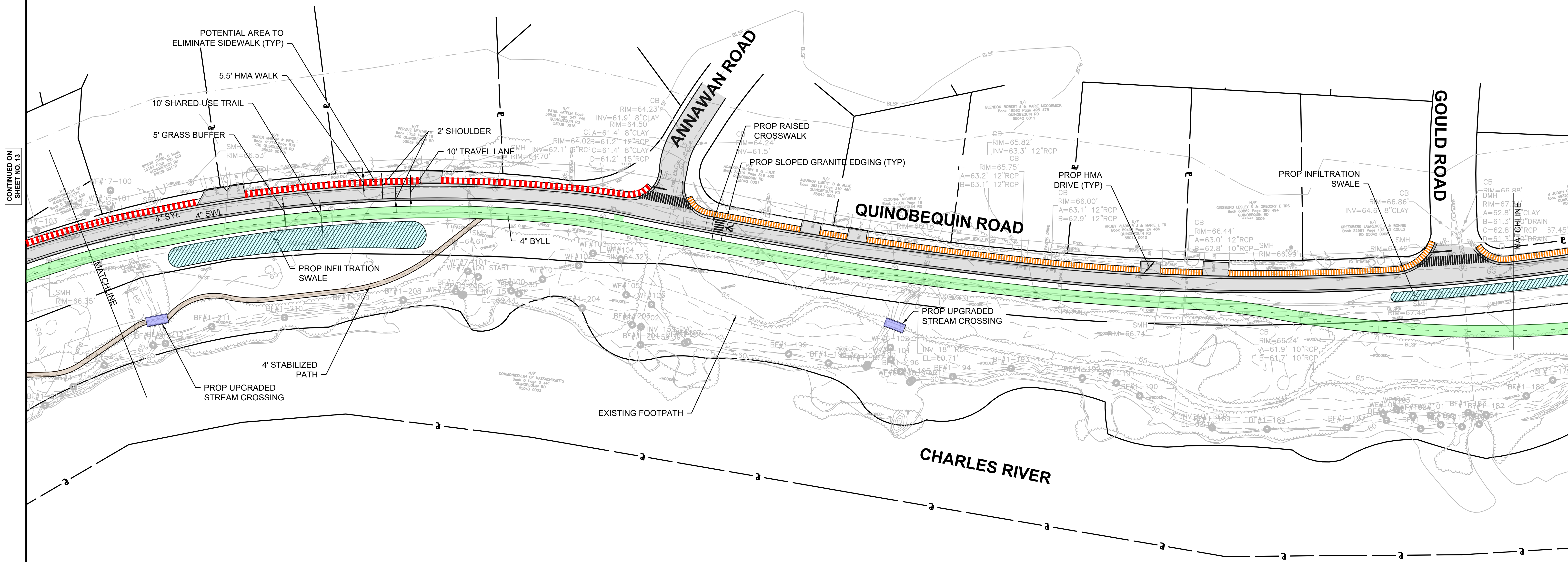
**CONCEPTUAL ROADWAY IMPROVEMENTS**  
**QUINOBEQUIN ROAD**  
**NEWTON, MA**

**CONSTRUCTION PLANS**

DESIGNER: MES	CONT: P20-3361-D7A	SCALE: 1" = 40'-0"	SHEET NO. C-03
CHECKED: PTS			
DRAWN: MES	ACC: ---	DATE: NOV. 2020	13 OF 17

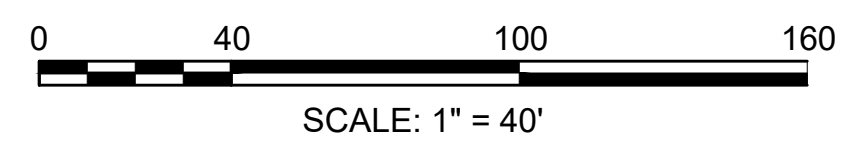


LEGEND			
	SHARED-USE TRAIL		UPGRADED STREAM CROSSING
	STABILIZED PATH		AREA TO REMOVE SIDEWALK
	HMA WALK		TRAILHEAD WITH GRANITE PIER
	RIVER BOULDER OVERLOOK LOCATION		HMA PAVEMENT
	INFILTRATION SWALE		



CONTINUED ON SHEET NO. 13

CONTINUED ON SHEET NO. 15



REV.	DATE	DESCRIPTION	BY



**COMMONWEALTH OF MASSACHUSETTS  
DEPARTMENT OF CONSERVATION AND RECREATION  
DIVISION OF PLANNING AND ENGINEERING**

**CONCEPTUAL ROADWAY IMPROVEMENTS**

**QUINOBEQUIN ROAD  
NEWTON, MA**

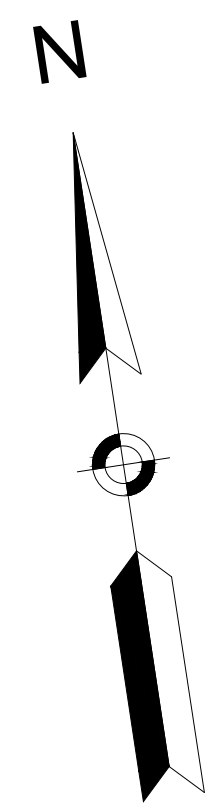
**CONSTRUCTION PLANS**

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SCALE: 1" = 40'-0"  
DATE: NOV. 2020

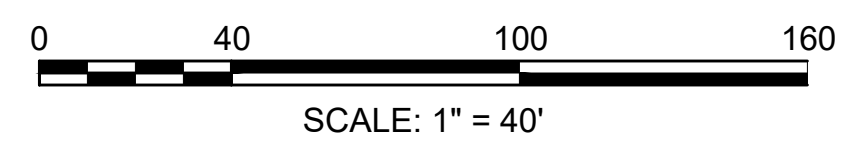
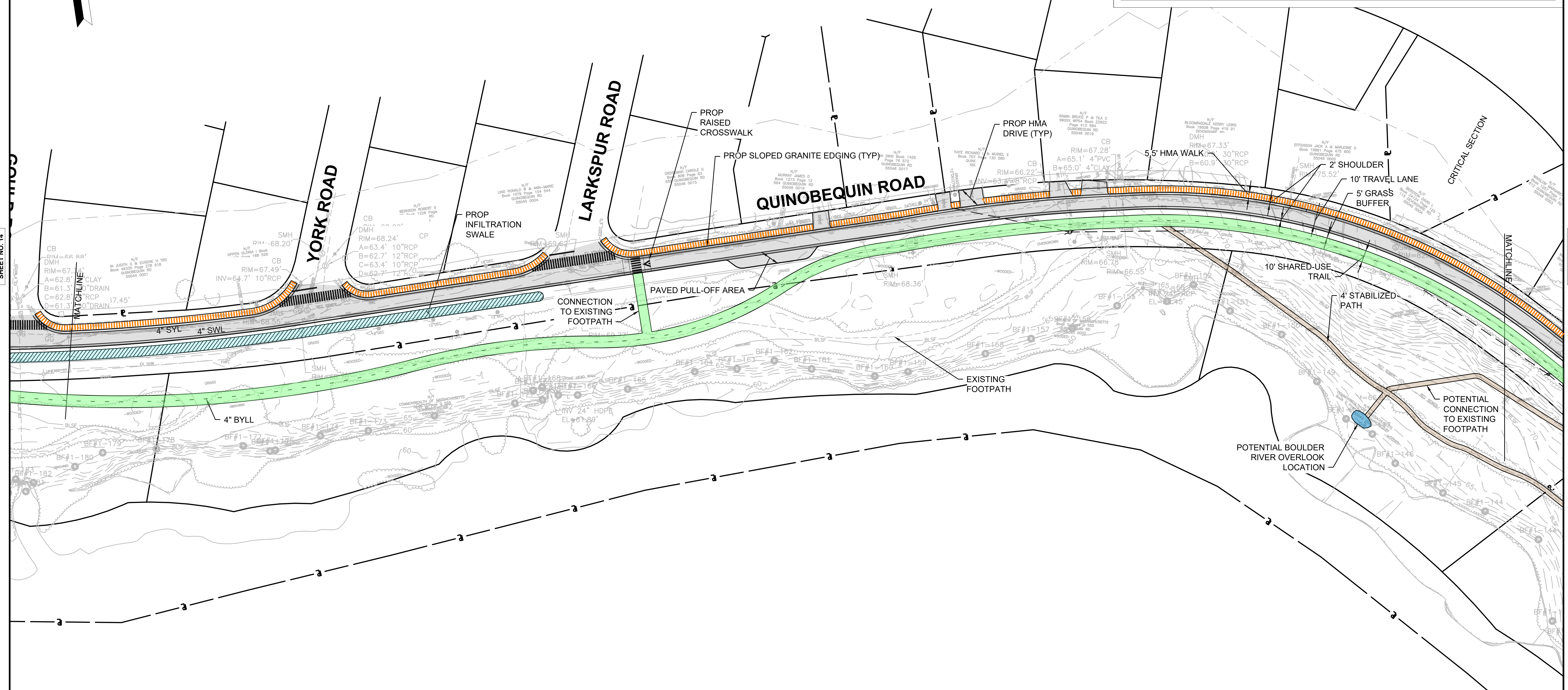
SHEET NO.  
**C-04**  
14 OF 17



LEGEND			
	SHARED-USE TRAIL		UPGRADED STREAM CROSSING
	STABILIZED PATH		AREA TO REMOVE SIDEWALK
	HMA WALK		TRAILHEAD WITH GRANITE PIER
	RIVER BOULDER OVERLOOK LOCATION		HMA PAVEMENT
	INFILTRATION SWALE		

CONTINUED ON SHEET NO. 14

CONTINUED ON SHEET NO. 16



REV.	DATE	DESCRIPTION	BY



**COMMONWEALTH OF MASSACHUSETTS  
DEPARTMENT OF CONSERVATION AND RECREATION  
DIVISION OF PLANNING AND ENGINEERING**

CONCEPTUAL ROADWAY IMPROVEMENTS

QUINOBEQUIN ROAD  
NEWTON, MA

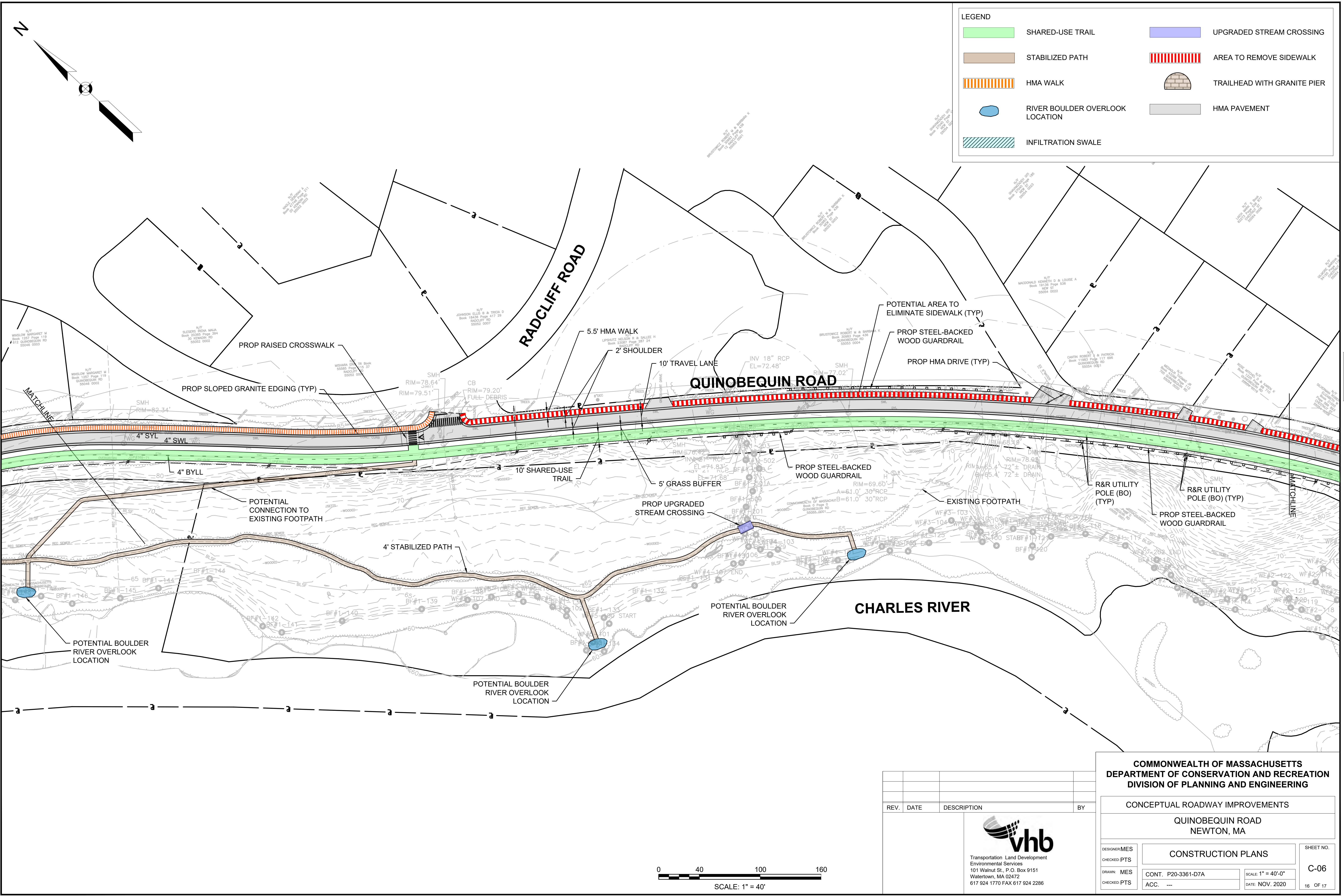
**CONSTRUCTION PLANS**

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CONT: P20-3361-D7A  
ACC: ---

SCALE: 1" = 40'-0"  
DATE: NOV. 2020

SHEET NO.  
**C-05**  
15 OF 17



**LEGEND**

	SHARED-USE TRAIL		UPGRADED STREAM CROSSING
	STABILIZED PATH		AREA TO REMOVE SIDEWALK
	HMA WALK		TRAILHEAD WITH GRANITE PIER
	RIVER BOULDER OVERLOOK LOCATION		HMA PAVEMENT
	INFILTRATION SWALE		

REV.	DATE	DESCRIPTION	BY



**COMMONWEALTH OF MASSACHUSETTS  
 DEPARTMENT OF CONSERVATION AND RECREATION  
 DIVISION OF PLANNING AND ENGINEERING**

CONCEPTUAL ROADWAY IMPROVEMENTS  
 QUINOBEQUIN ROAD  
 NEWTON, MA

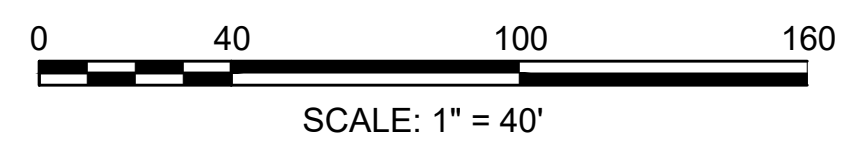
CONSTRUCTION PLANS

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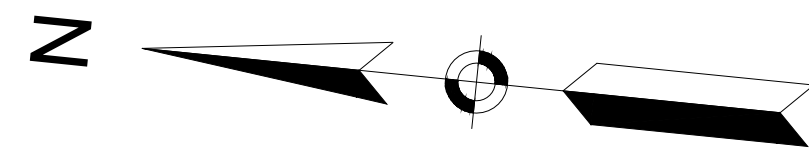
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SHEET NO.  
**C-06**  
 16 OF 17

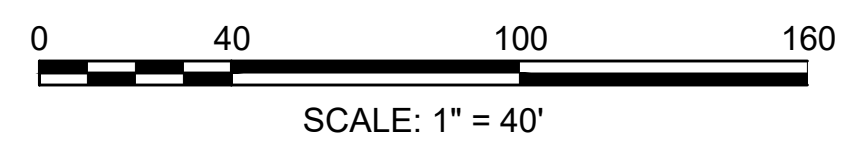
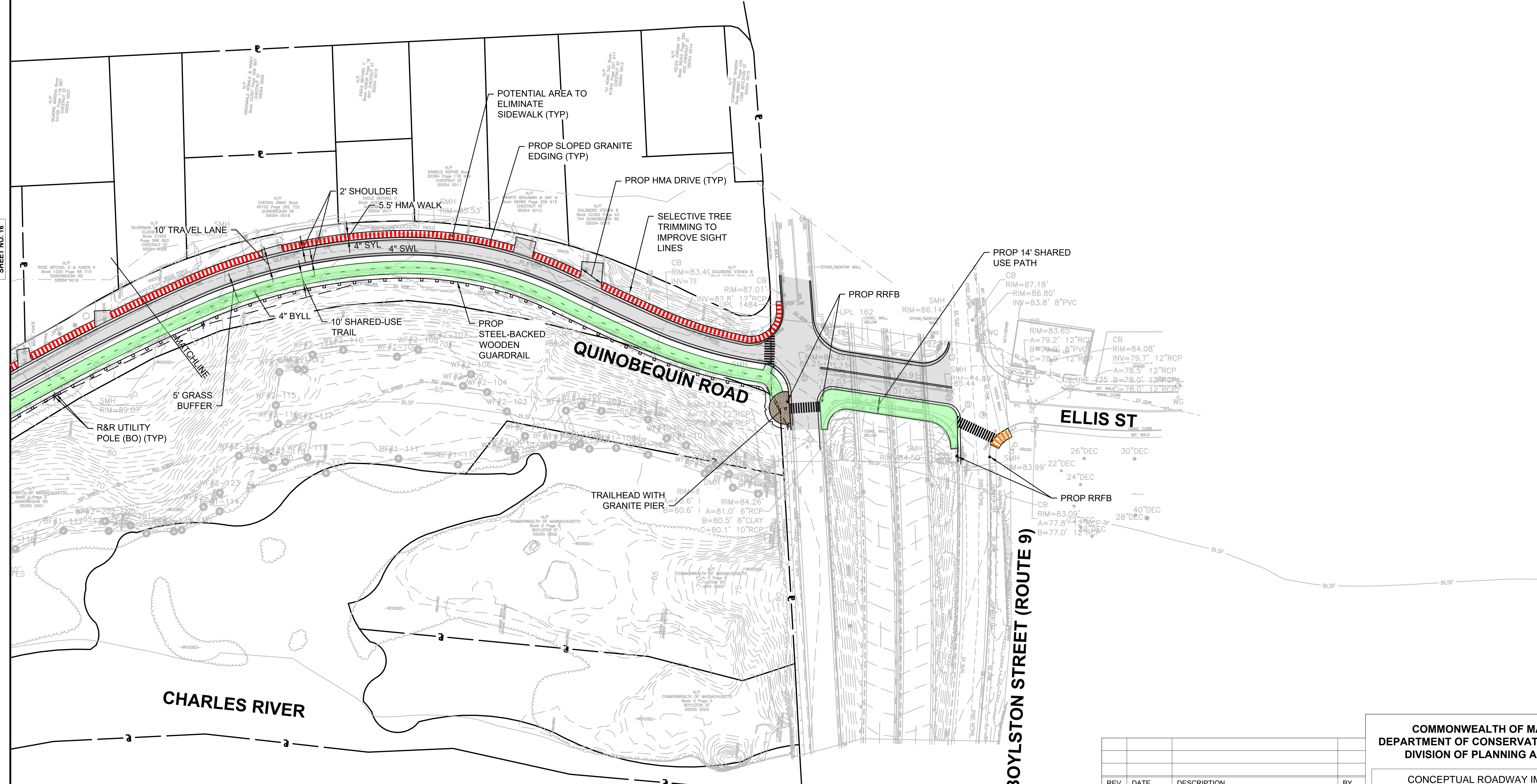






LEGEND			
	SHARED-USE TRAIL		UPGRADED STREAM CROSSING
	STABILIZED PATH		AREA TO REMOVE SIDEWALK
	HMA WALK		TRAILHEAD WITH GRANITE PIER
	RIVER BOULDER OVERLOOK LOCATION		HMA PAVEMENT
	INFILTRATION SWALE		

CONTINUED ON SHEET NO. 16



REV.	DATE	DESCRIPTION	BY



**COMMONWEALTH OF MASSACHUSETTS  
DEPARTMENT OF CONSERVATION AND RECREATION  
DIVISION OF PLANNING AND ENGINEERING**

CONCEPTUAL ROADWAY IMPROVEMENTS  
QUINOBEQUIN ROAD  
NEWTON, MA

DESIGNER: MES	<b>CONSTRUCTION PLANS</b>	SHEET NO.
CHECKED: PTS		<b>C-07</b>
DRAWN: MES	CONT: P20-3361-D7A	SCALE: 1" = 40'-0"
CHECKED: PTS	ACC: ---	DATE: NOV. 2020
		17 OF 17