

**TOWN OF PLYMOUTH CAPITAL IMPROVEMENT PLAN REQUEST FORM  
FY24 SPRING ANNUAL TOWN MEETING REQUEST FORM**

<b>Department:</b> DPW, Engineering Division	<b>Priority #:</b>	1 - Special Town Meeting
<b>Project Title and Description:</b> Bartlett Road Bridge Construction	<b>Total Project Cost:</b>	\$ 3,250,000.00

**Department/Division Head:** Sheila Sgarzi

**Check if project is:** New ☐ Resubmitted ☐ **Cost estimate was developed:** Internally ☐ Externally ☐

**For project re-submittals, list prior year(s):**

**List any funding sources and amounts already granted:** The Bartlett Road Bridge design was funded through a \$100,000 grant from the Massachusetts Division of Ecological Restoration and a \$124,000 contribution from the Environmental Affairs Fund, as approved at FY22 Fall Town Meeting. The Town is currently exploring grant opportunities for the construction phase of the project. If the Town receives grant funding, those monies will offset the construction costs requested herein.

Basis of Estimated Costs (attach additional information if available)			If project has impact on 5 Year Plan and future operating budgets, insert estimated amounts.		
Capital:	Cost	Comments	Fiscal Year:	Capital	Operations & Maintenance
<i>Planning and Design</i>	\$ 200,000.00	The engineering design has been separately funded (see above). The requested \$200,000 is for bidding phase engineering services, construction administration and full-time construction inspection.	<i>FY23</i>		
<i>Labor and Materials</i>	\$ 2,523,343.00	Refer to the attached construction cost estimate.	<i>FY24</i>		
<i>Administration</i>			<i>FY25</i>		
<i>Land Acquisition</i>			<i>FY26</i>		
<i>Equipment</i>			<i>FY27</i>		
<i>Other</i>					
<i>Contingency</i>	\$ 526,657.00	25% total contingency (rounded) includes standard construction contingency and market uncertainty.			
<b>Total Capital</b>	\$ 3,250,000.00				

**Project Justification and Objective:** The existing Bartlett Road Bridge has been restricted by a 5-ton weight limit since 2005 and is recommended for full replacement. The Bartlett Road Bridge abuts the Mass Audubon Tidmarsh Wildlife Sanctuary and encompasses the non-jurisdictional Fresh Pond Dam. The Engineering Division, working in conjunction with the Plymouth Department of Marine and Environmental Protection and design consultant, SLR Consulting, Inc., initiated the design of the proposed Bartlett Road Bridge in the fall of 2021. The design and permitting phase of the Bartlett Road Bridge Replacement project is nearing completion, with final plans and specifications anticipated in early spring 2023. The proposed construction project includes the replacement of the bridge with a precast box culvert, stormwater upgrades, a new water main, a 5-foot-wide sidewalk and roadway realignment to improve sight lines and safety. The Town has acquired the necessary easements from Mass Audubon to align the road, install the bridge and locate the stormwater treatment systems. Supporting documentation is attached herein. Addition information about the project can be found on the Plymouth Engineering Division website at <http://www.plymouth-ma.gov/engineering/pages/bartlett-road-bridge-replacement-project>.

**For Capital Project Requests:**

Will this project be phased over more than one fiscal year? If yes, enter it on the 5 Year Plan Yes ☐ No ☐  
Can this project be phased over more than one fiscal year? Yes ☐ No ☐

**For Capital Equipment Requests:**

☐ Check if equipment requested is replacement and enter the year, make & model, VIN and present condition of existing equipment

**What is the expected lifespan of this new/replacement equipment:** \_\_\_\_\_

**Attach backup information, estimates, or justification to support this request.**

**OPINION OF PROBABLE CONSTRUCTION COSTS**  
**Based Upon Permit Drawings**  
**Replacement Of Bartlett Road Culvert Over Unnamed Brook**  
**District 5**  
**Plymouth, Massachusetts**  
#11982.00016  
October 31., 2022

Item No	Description	Unit of Measure	Unit Price	Total Quantity	Total
1	SITE PREPARATION	LUMP SUM	\$34,000.00	1	\$34,000.00
2	INCIDENTIALS	LUMP SUM	\$119,000.00	1	\$119,000.00
3	TRAFFIC MANAGEMENT	LUMP SUM	\$60,000.00	1	\$60,000.00
3	SITE RESTORATION	LUMP SUM	\$34,000.00	1	\$34,000.00
115.1	DEMOLITION OF BRIDGE CULVERT	LUMP SUM	\$ 50,000.00	1	\$50,000.00
120	EARTH EXCAVATION	LUMP SUM	\$ 60,000.00	1	\$60,000.00
120.25	PAVEMENT MILLING	SQUARE YARD	\$ 50.00	40	\$2,000.00
140	BRIDGE EXCAVATION	CUBIC YARD	\$ 60.00	500	\$30,000.00
141.1	TEST PIT FOR EXPLORATION	LUMP SUM	\$ 2,000.00	1	\$2,000.00
151	GRAVEL BORROW	CUBIC YARD	\$ 35.00	325	\$11,375.00
151.01	GRAVEL BORROW - TYPE C	CUBIC YARD	\$ 45.00	450	\$20,250.00
151.2	GRAVEL BORROW FOR BACKFILLING STRUCTURES AND PIPES	CUBIC YARD	\$ 45.00	75	\$3,375.00
156.1	CRUSHED STONE FOR BRIDGE FOUNDATIONS	TON	\$ 50.00	1100	\$55,000.00
170	FINE GRADING AND COMPACTING	SQUARE YARD	\$ 4.00	300	\$1,200.00
201.5	CATCH BASIN - MUNICIPAL STANDARD w/ 4' SUMP	EACH	\$ 5,000.00	8	\$40,000.00
202.01	MANHOLE -MUNICIPAL STANDARD 4' DIAMETER & 2' SUMP	EACH	\$ 7,500.00	5	\$37,500.00
222.3	FRAME AND GRATE (OR COVER) MUNICIPAL STANDARD	EACH	\$ 1,000.00	2	\$2,000.00
241.12	12 INCH REINFORCED CONCRETE PIPE	LINEAR FEET	\$ 125.00	450	\$56,250.00
241.15	15INCH REINFORCED CONCRETE PIPE	LINEAR FEET	\$ 150.00	15	\$2,250.00
241.18	18 INCH REINFORCED CONCRETE PIPE	LINEAR FEET	\$ 175.00	125	\$21,875.00
242.12	12 INCH REINFORCED CONCRETE PIPE FARED END	EACH	\$ 1,000.00	1	\$1,000.00
258.00	STONE FOR PIPE ENDS	SY	\$ 250.00	5	\$1,250.00

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Item No	Description	Unit of Measure	Unit Price	Total Quantity	Total
272	PIPE REMOVED AND ABANDONED	LUMP SUM	\$ 5,000.00	1	\$5,000.00
402.	DENSE GRADED CRUSHED STONE FOR SUB-BASE	CUBIC YARD	\$ 70.00	310	\$21,700.00
443	WATER FOR DUST CONTROL	M GAL	\$ 80.00	150	\$12,000.00
460.	HOT MIX ASPHALT	TON	\$ 200.00	250	\$50,000.00
462	HOT MIX ASPHALT DENSE BINDER COURSE FOR BRIDGES	TON	\$ 200.00	400	\$80,000.00
464	BITUMEN FOR TACK COAT	GAL	\$ 20.00	475	\$9,500.00
482.3	SAWING ASPHALT PAVEMENT	FOOT	\$ 6.00	255	\$1,532.57
504	CURB	FOOT	\$ 25.00	1050	\$26,250.00
620.3	STEEL BACKED TIMBER GUIDERAIL END ANCHORAGE	EACH	\$ 4,000.00	2	\$8,000.00
628.1	STEEL BACKED TIMBER GUIDERAIL BRIDGE ATTACHMENT	EACH	\$ 4,000.00	2	\$8,000.00
701.	CEMENT CONCRETE SIDEWALK	SQUARE YARD	\$ 85.00	275	\$23,375.00
701.1	CEMENT CONCRETE SIDEWALK AT DRIVEWAYS	SQUARE YARD	\$ 50.00	55	\$2,743.60
748.	MOBILIZATION	LUMP SUM	\$169,000.00	1	\$169,000.00
861.04	4 INCH REFLECTORIZED YELLOW LINE (PAINTED)	FOOT	\$ 3.00	775	\$2,325.00
901	4000 PSI, 1.5 IN., 565 CEMENT CONCRETE	CUBIC YARD	\$ 1,500.00	25	\$37,500.00
904.3	5000 PSI, 3/4 IN., 685 HP CEMENT CONCRETE	CUBIC YARD	\$ 1,800.00	40	\$72,000.00
910.1	STEEL REINFORCEMENT FOR STRUCTURES - EPOXY COATED	POUND	\$ 3.50	10000	\$35,000.00
965	MEMBRANE WATERPROOFING FOR BRIDGE DECKS	SQUARE YARD	\$ 150.00	25	\$3,750.00
970.	BITUMINOUS DAMP-PROOFING	SQUARE YARD	\$ 25.00	45	\$1,125.00
975.1	METAL BRIDGE RAILING (3 RAIL), STEEL (TYPE S3-TL4)	FOOT	\$ 1,000.00	40	\$39,500.00
983.2	RIPRAP	CUBIC YARD	\$ 150.00	10	\$1,500.00
991.2	CONTROL OF WATER STRUCTURE	LUMP SUM	\$ 50,000.00	1	\$50,000.00

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Item No	Description	Unit of Measure	Unit Price	Total Quantity	Total
995.01	BRIDGE STRUCTURE - THREE-SIDED PRECAST CONCRETE CULVERT	LUMP SUM	\$ 175,000.00	1	\$175,000.00
996	CONDITION SURVEY AND MONITORING	LUMP SUM	\$ 7,500.00	1	\$7,500.00
1000	WATERMAIN & MISCELLANEOUS	LUMP SUM	\$ 250,000.00	1	\$250,000.00
1000	TEMPORARY WATER MAIN RELOCATION	LUMP SUM	\$ 50,000.00	1	\$50,000.00
1000	Miscellaneous Items (20%)	LUMP SUM	\$320,000.00	1	\$320,000.00

**PROJECT COST SUBTOTAL =**

\$2,106,626.17
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**CONTINGENCIES 10% =**

\$ 210,662.62
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**INCIDENTALS 10% =**

\$ 210,662.62
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**MARKET UNCERTAINTY 15% =**

\$ 315,993.93
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*Police Details: \$70/hr x 3 detail officers x 8 hr/day x 120 days = \$201,600.00*

**TOTAL PROJECT COST (ROUNDED) =**

<del>\$2,845,000.00</del>
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*Total Project Cost = \$3,045,545.34*

***USE = \$3,050,000.00***

## PROFESSIONAL FEES

The services described above will be performed on a lump sum basis broken down by task as follows:

1.0	Kickoff and Coordination Meetings .....	\$16,500	
2.0	Data Collection and Subsurface Exploration.....	\$26,500	
3.0	Preliminary Engineering.....	\$52,000	
4.0	Conceptual Design .....	\$19,000	
5.0	Preliminary Design .....	\$30,000	
6.0	Regulatory Permitting Assistance .....	\$28,000	
7.0	Final Design .....	\$37,000	
8.0	Stakeholder Engagement.....	<u>\$15,000</u>	
	<b>Subtotal Preconstruction .....</b>	<b>\$224,000</b>	
9.0	Bidding-Phase Services .....	\$7,500	
10.0	Construction Administration .....	\$26,000	
11.0	Project Representation (4-month construction period).....	<u>\$150,000</u>	
	<b>Subtotal Construction Phase.....</b>	<del><b>\$183,500</b></del>	<i>Add 10% to this</i>
		<b>\$200,000</b>	<i>2021 total</i>
	<b>ESTIMATED PROJECT TOTAL.....</b>	<b>\$407,500</b>	

## STANDARD TERMS AND CONDITIONS

This proposal is subject to our Standard Terms and Conditions, which are attached hereto and incorporated herein.

## EXCLUSIONS AND LIMITATIONS

In submitting this proposal, we make no representation that the project will receive all necessary regulatory approvals.

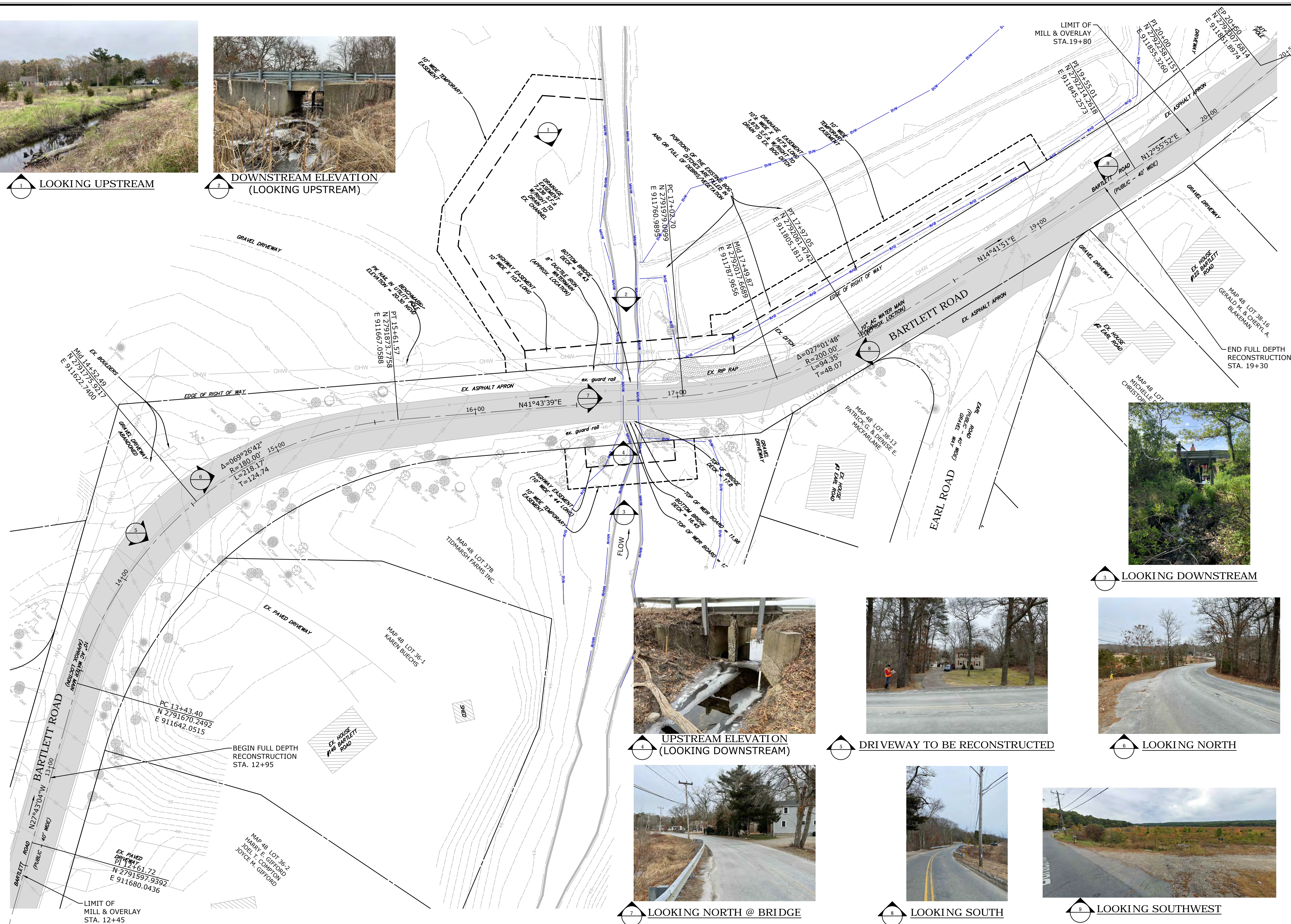
The following work items are not included in this scope of work at this time:

1. Payment of permit application fees
2. Historic and/or archaeological surveys
3. A-2 boundary survey and easement maps
4. Utility design, other than water and drainage
5. Natural Diversity Data Base studies

Should any of the above items or any additional services be required, they can be provided on an hourly basis or for an agreed-upon lump sum fee.


**LOOKING UPSTREAM**

 DOWNSTREAM ELEVATION  
(LOOKING UPSTREAM)



 LOOKING DOWNSTREAM

 UPSTREAM ELEVATION  
(LOOKING DOWNSTREAM)



5 DRIVEWAY TO BE RECONSTRUCTED

6 LOOKING NORTH

 **LOOKING NORTH @ BRIDGE**

 LOOKING SOUTH

9 LOOKING SOUTHWEST

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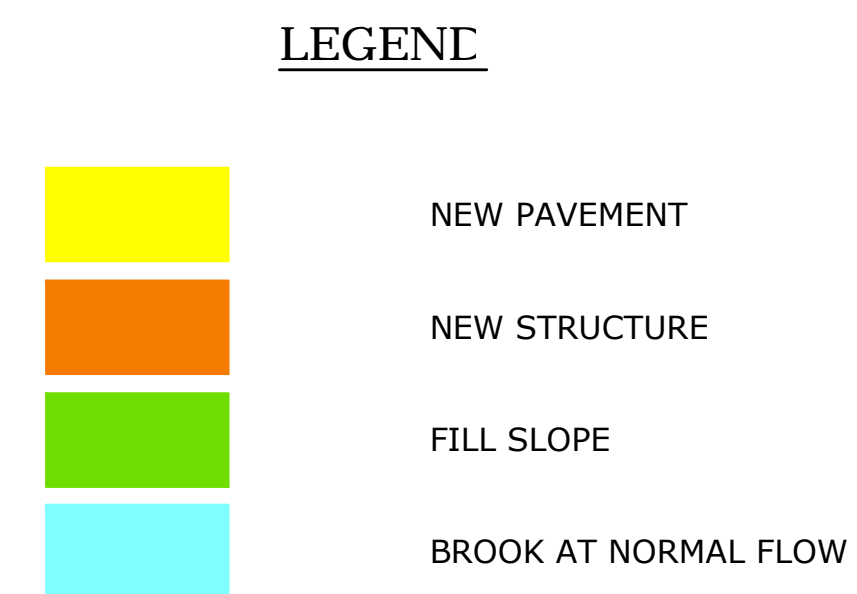
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**EXISTING CONDITIONS & BASELINE LAYOUT**

**BARTLETT ROAD**

NP	NP	K
DESIGNED	DRAWN	CHECKED
1"=20'		
SCALE		
JUNE 30, 2022		
DATE		
11982.00016		
PROJECT NO.		
02 OF 21		
PAGE NO.		

**EX-01**

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NOT FOR CONSTRUCTION

# ROADWAY PLAN

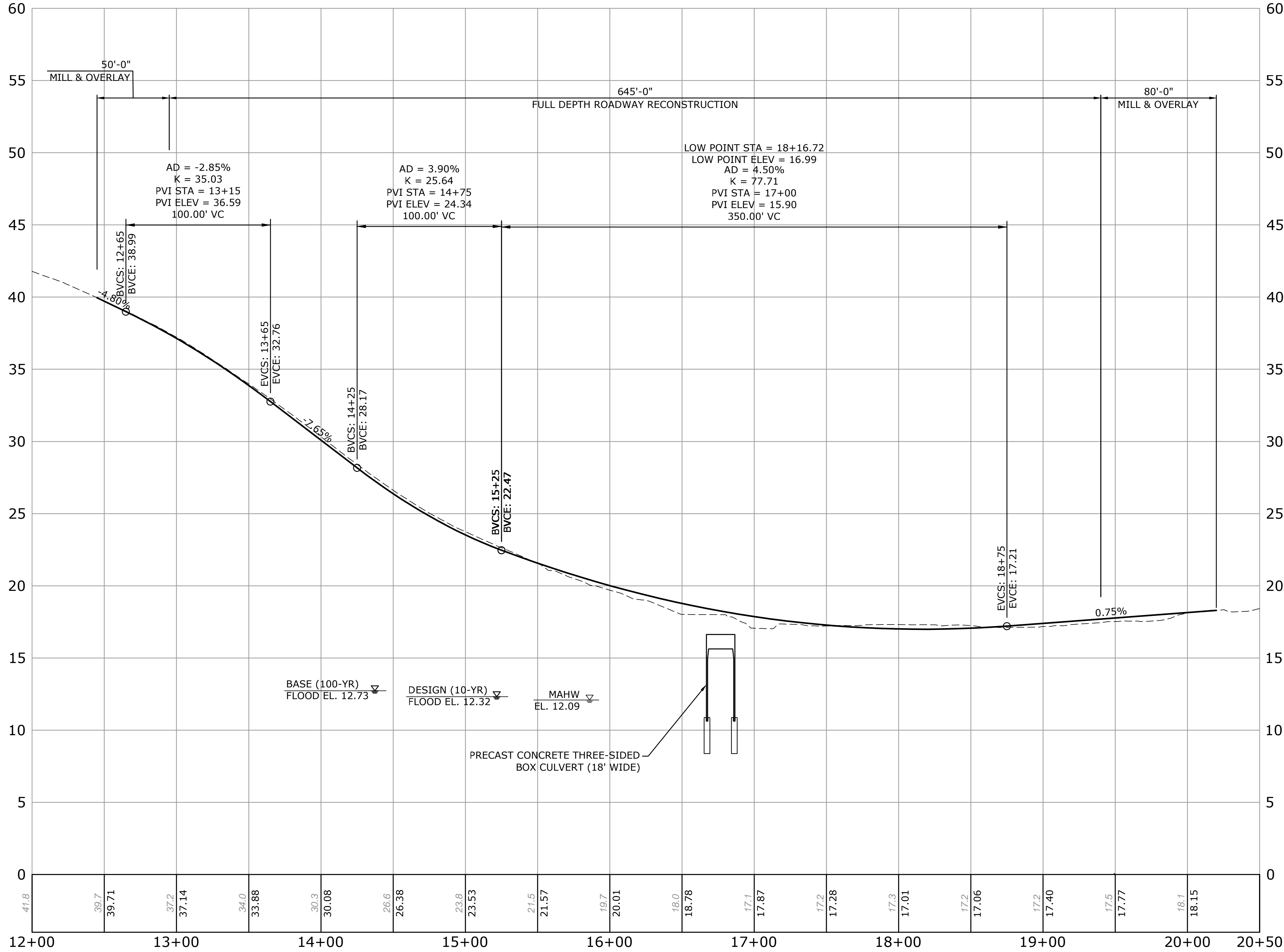
## REPLACEMENT OF BARTLETT ROAD CULVERT OVER UNNAMED BROOK

**NOT FOR CONSTRUCTION**

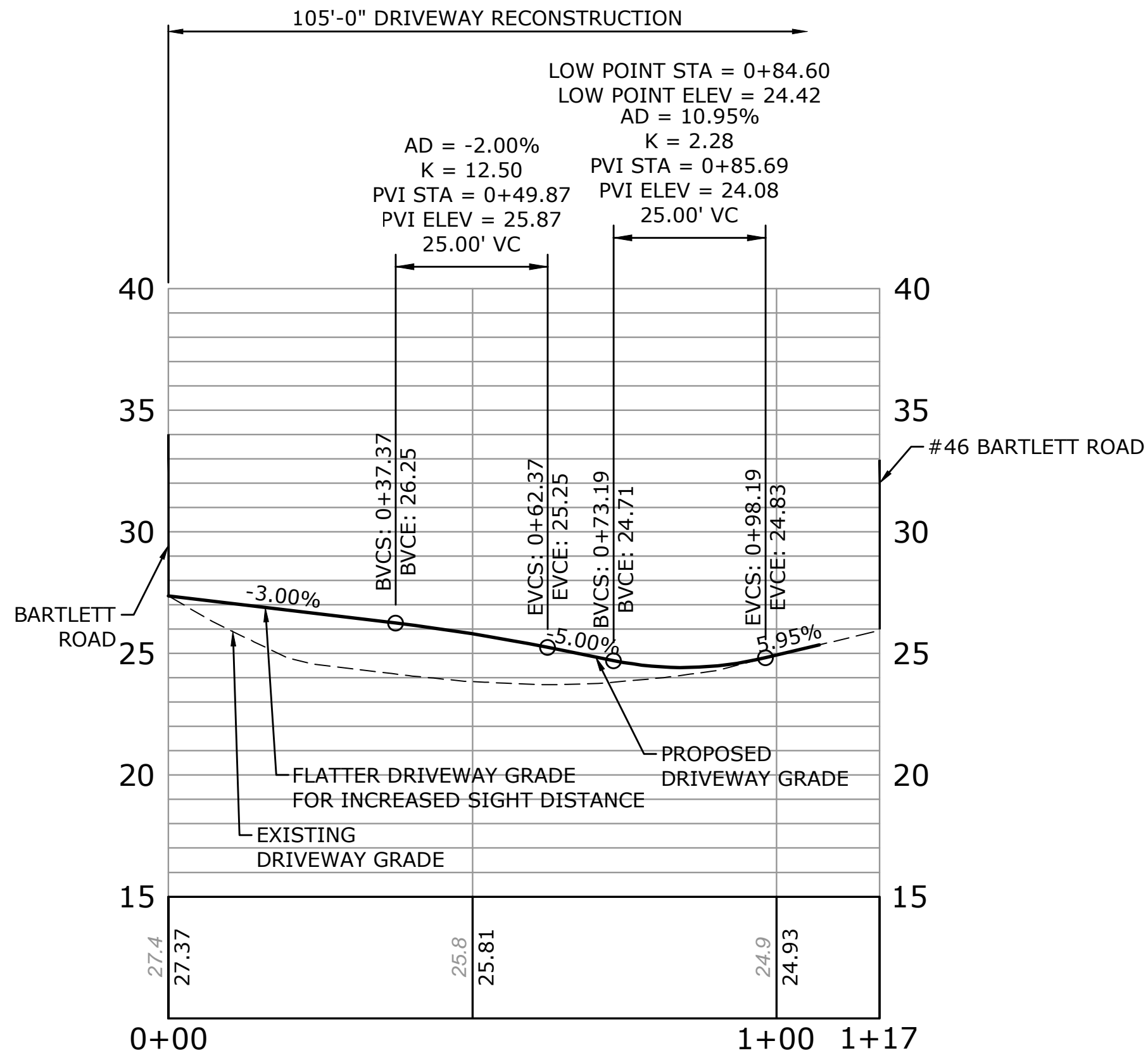
NP DESIGNED	NP DRAWN	KP CHECKED
1"=20'		
SCALE		
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DATE		
11982.00016		
PROJECT NO.		
03 OF 21		
SHEET NO.		

**PL-01**

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11/21/2023 10:00 AM  
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**ROADWAY PROFILE**  
SCALE: 1"=40'-0" HORIZ.  
1"=4'-0" VERT.



**PROPOSED DRIVEWAY PROFILE**  
SCALE: 1"=20'-0" HORIZ.  
1"=5'-0" VERT.



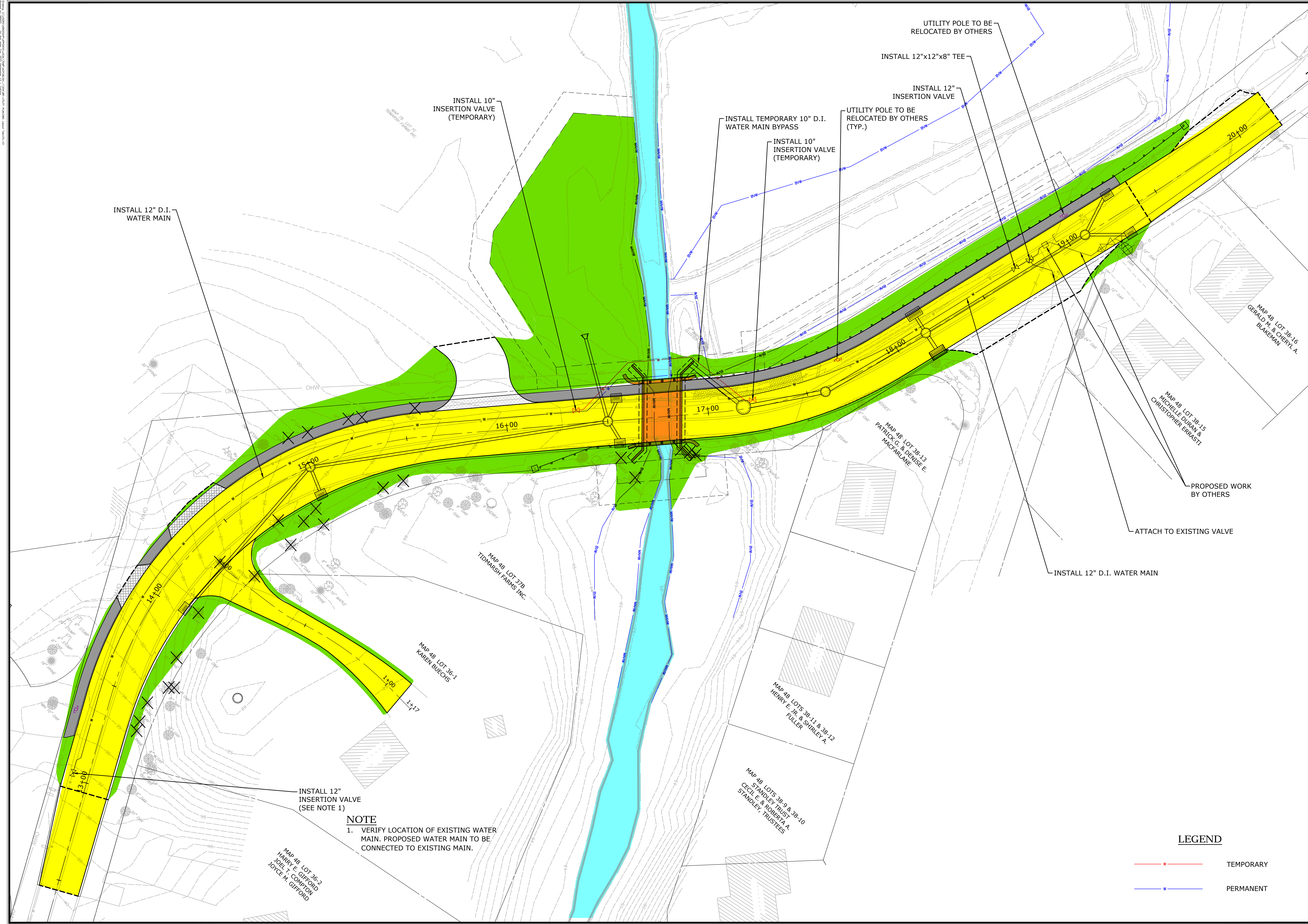
DESCRIPTION	DATE	BY

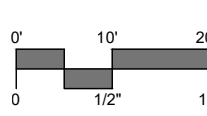
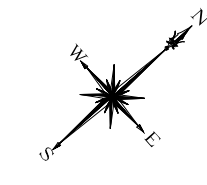
**ROADWAY & DRIVEWAY PROFILE**  
**REPLACEMENT OF BARTLETT ROAD CULVERT  
OVER UNNAMED BROOK**  
BARTLETT ROAD  
PLYMOUTH, MASSACHUSETTS


NOT FOR CONSTRUCTION

NP DESIGNED	NP DRAWN	KP CHECKED
AS NOTED		
JUNE 30, 2022		
11982.00016		
04 OF 21		

**PRO-01**







99 REALTY DRIVE  
SUITE 200  
PLYMOUTH, MA 01901  
203.271.7777  
SLRCONSULTING.COM

DESCRIPTION	DATE	BY

UTILITY PLAN

REPLACEMENT OF BARTLETT ROAD CULVERT  
OVER UNNAMED BROOK

BARTLETT ROAD  
PLYMOUTH, MASSACHUSETTS

NP DESIGNED	NP DRAWN	KP CHECKED

SCALE  
1"=20'

DATE  
JUNE 15, 2022

PROJECT NO.  
11982.00016

SHEET NO.  
05 OF 21

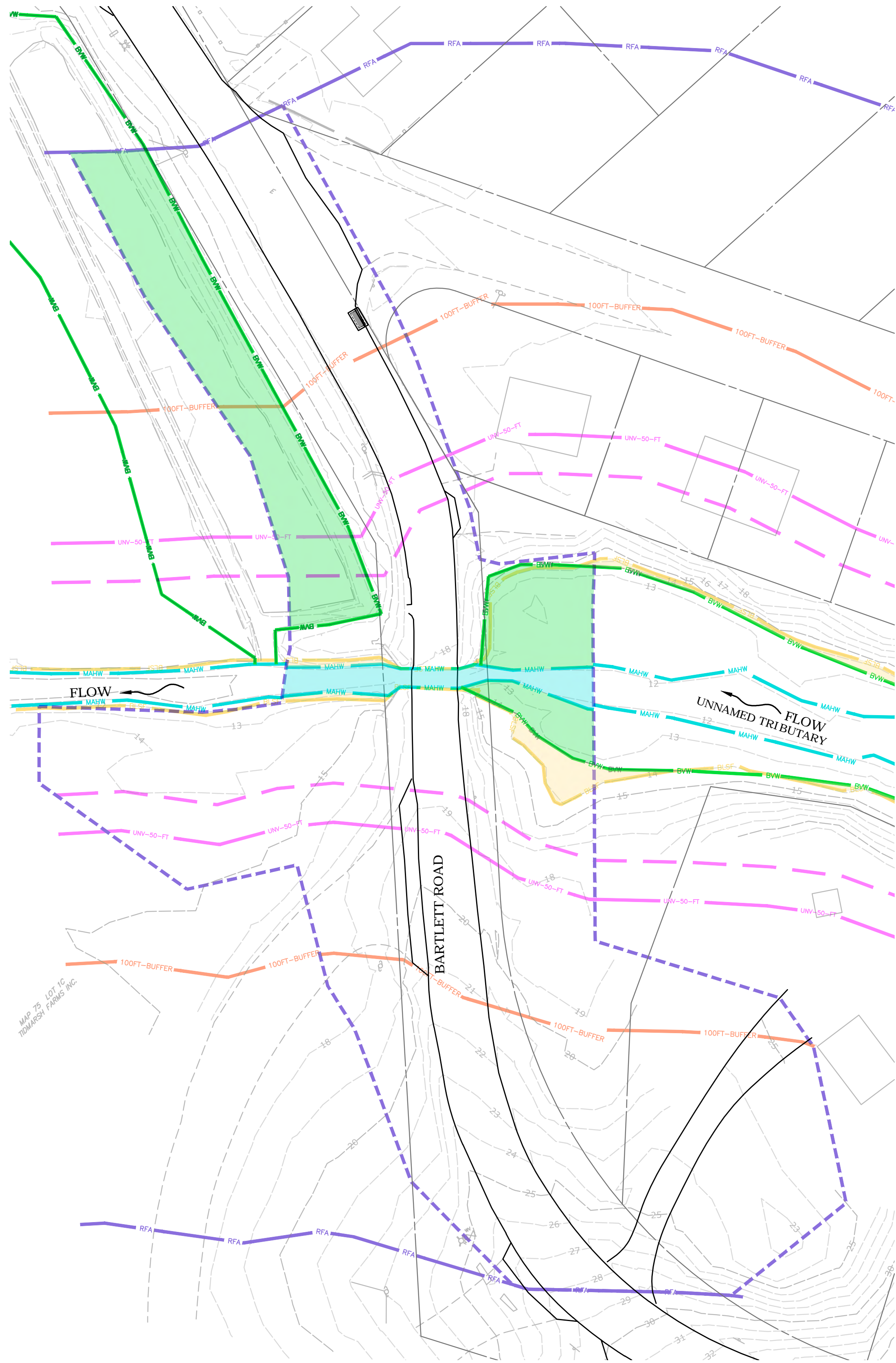
UTIL-01

SHEET NAME

NOT FOR CONSTRUCTION

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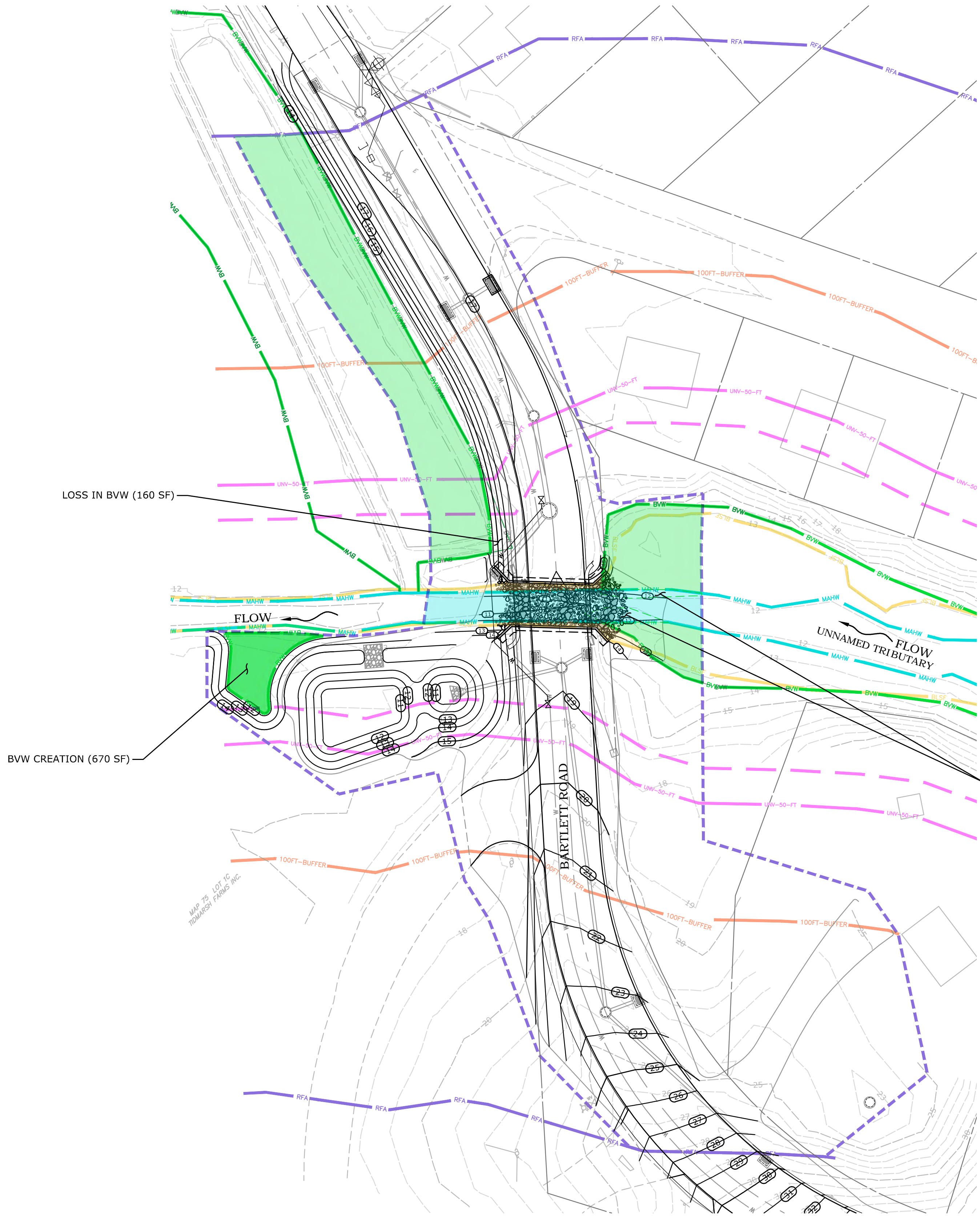
DATE: 06/30/2022  
PROJECT: RR-01  
SHEET: 0410  
DRAWN BY: JCM  
CHECKED BY: JCM  
DESIGNED BY: JCM  
SCALE: 1"=30'



REGULATED RESOURCES - EXISTING CONDITIONS  
SCALE: 1"=30'

LEGEND

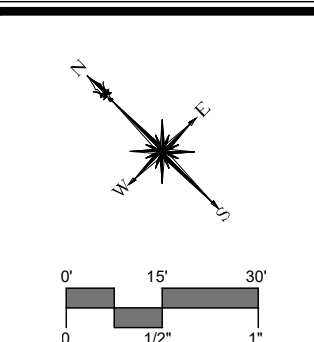
- |                              |  |  |
|------------------------------|--|--|
| MAHW                         | MEAN ANNUAL HIGH WATER (MAHW)  | LAND UNDER WATER (LUW) WITHIN PROJECT LIMITS                     |
| BVW                          | BORDERING VEGETATED WETLAND (BVW)  | BORDERING VEGETATED WETLAND (BVW) WITHIN PROJECT LIMITS          |
| BLSF                         | BORDERING LAND SUBJECT TO FLOODING (BLSF)/100-YEAR FLOODPLAIN (100-YEAR) | BORDERING VEGETATED WETLAND (BVW) CREATION WITHIN PROJECT LIMITS |
| RFA                          | RIVERFRONT AREA (RFA)  | BORDERING LAND SUBJECT TO FLOOD (BLSF) WITHIN PROJECT LIMITS     |
| 100FT-BUFFER                 | 100-FOOT INLAND BANK BUFFER ZONE (BZ)                                    | RIVERFRONT AREA (RFA) WITHIN PROJECT LIMITS                      |
| UNV-50-FT                    | 50-FOOT NO BUILD BUFFER ZONE   |  |
| 35-FOOT NO TOUCH BUFFER ZONE |  |  |



REGULATED RESOURCES - PROPOSED CONDITIONS  
SCALE: 1"=30'

REGULATED RESOURCE AREAS WITHIN PROJECT LIMITS			
REGULATED AREA	EXISTING	PROPOSED	NET CHANGE
INLAND BANK	240 LF	240 LF	+0 LF
LAND UNDER WATER	1,080 SF	1,590 SF	+510 SF
BORDERING VEGETATED WETLAND	7,435 SF	7,685 SF	+250 SF
BORDERING LAND SUBJECT TO FLOODING	1,165 SF	415 SF	-750 SF
RIVERFRONT AREA	55,850 SF	55,850 SF	+0 SF

NOTE: BLSF/100-YEAR FLOODPLAIN EXTENT BASED ON PROJECT-SPECIFIC HYDRAULIC MODEL.



DESCRIPTION	DATE	BY

REGULATED RESOURCES  
REPLACEMENT OF BARTLETT ROAD CULVERT  
OVER UNNAMED BROOK  
BARTLETT ROAD  
PLYMOUTH, MASSACHUSETTS

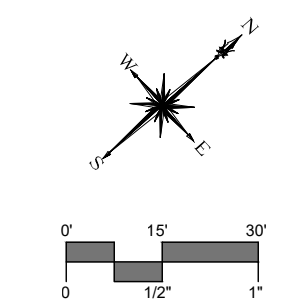
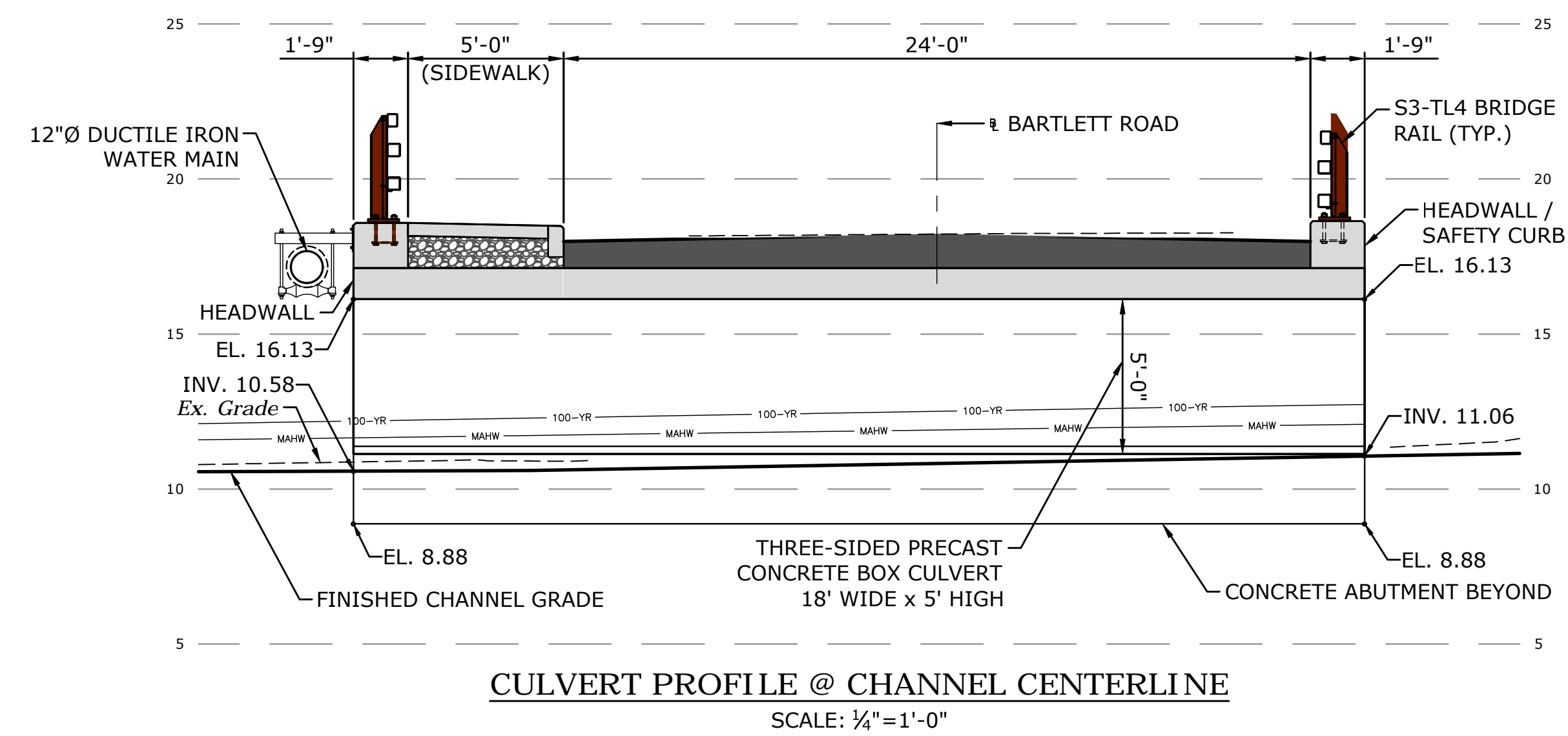
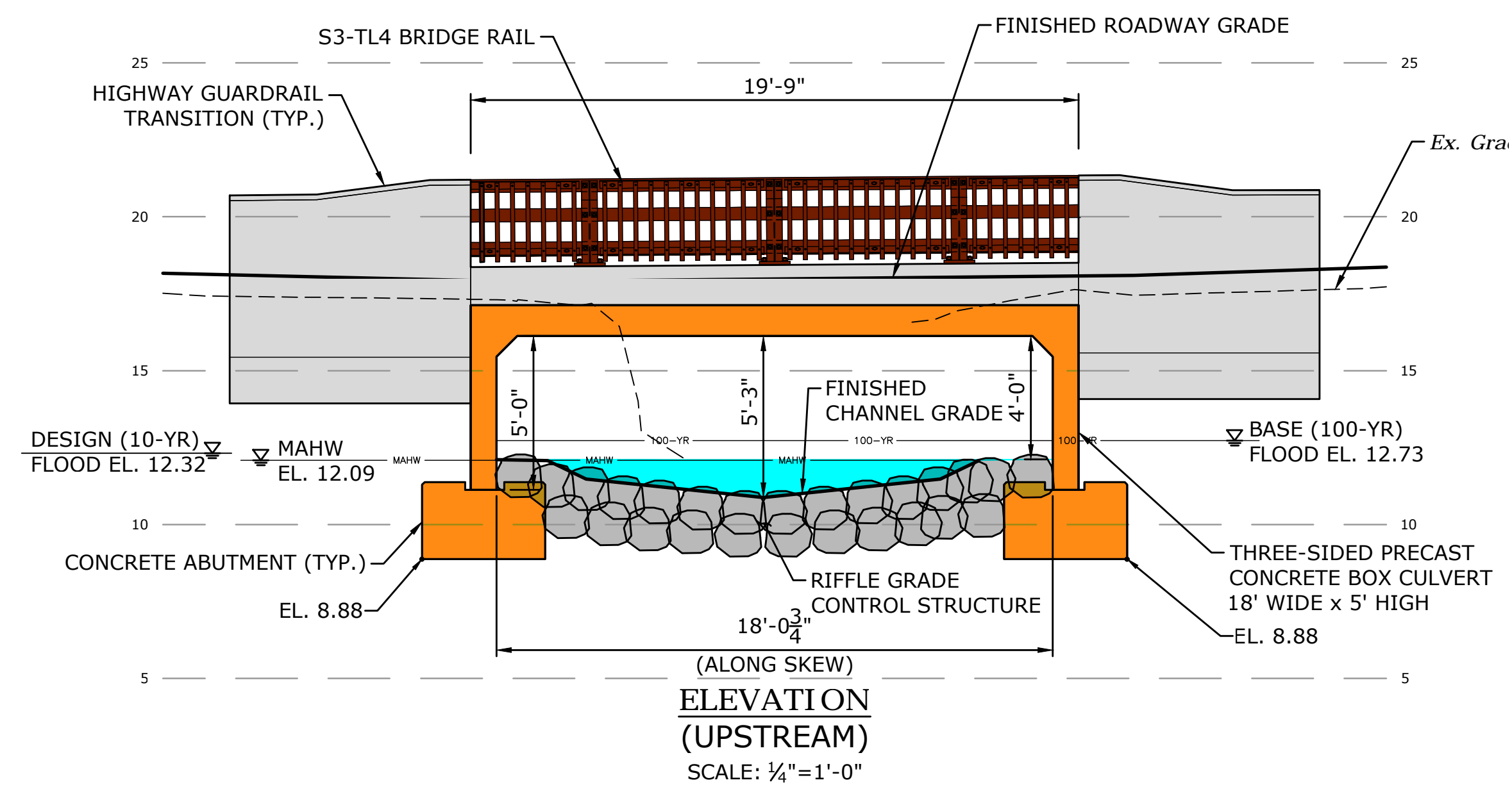
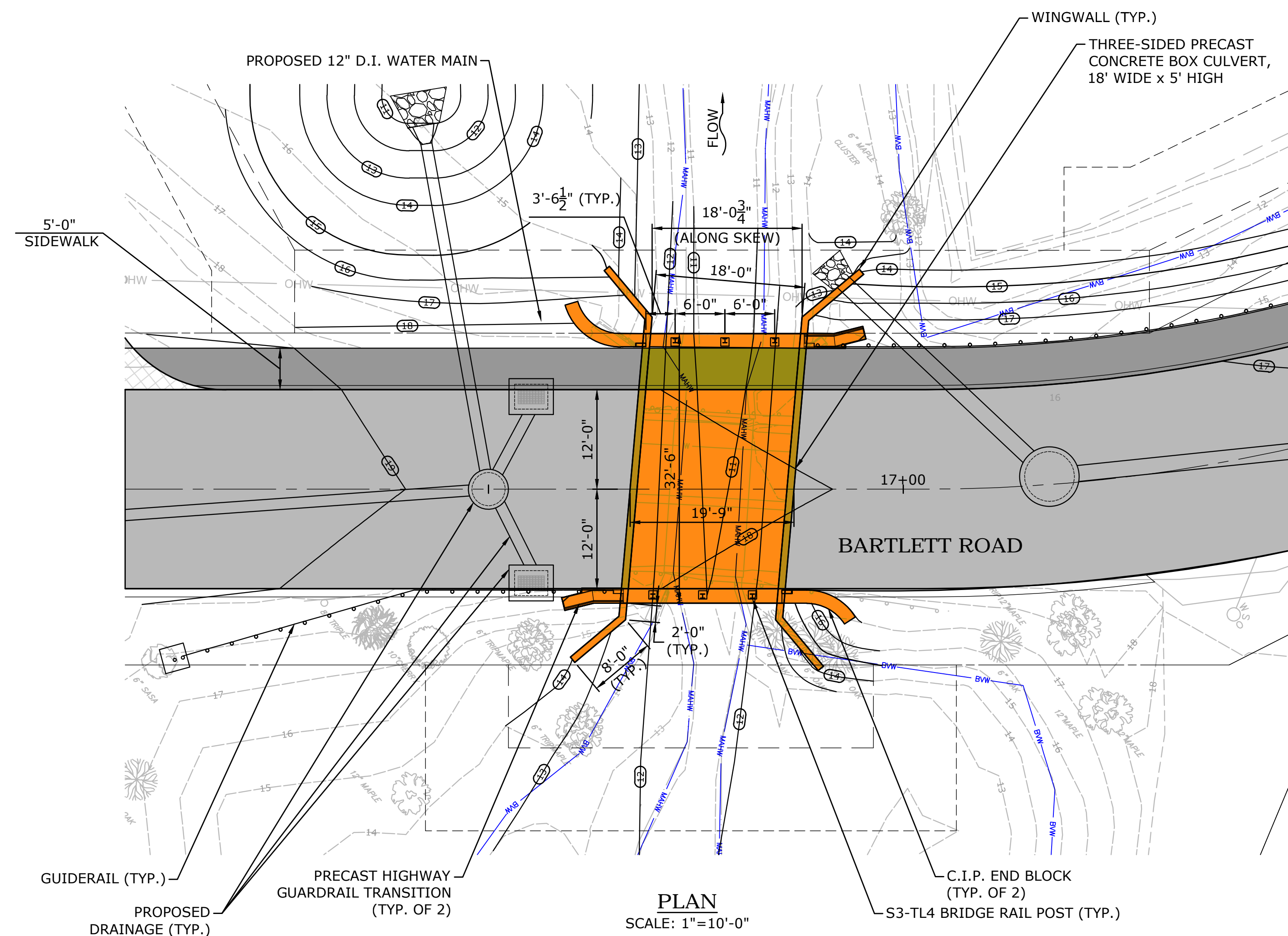
NOT FOR CONSTRUCTION

TMD DESIGNED	TMD DRAWN	JCM CHECKED
1" = 30'		
JUNE 30, 2022		
11982.00016		
PROJECT NO.		
09 OF 21		
SHEET NO.		

RR-01

SHEET NAME

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[illegible]

**STRUCTURAL PLAN**

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**REPLACEMENT OF BARTLETT ROAD CULVERT  
OVER UNNAMED BROOK**

BARTLETT ROAD  
PLYMOUTH, MASSACHUSETTS

**NOT FOR CONSTRUCTION**

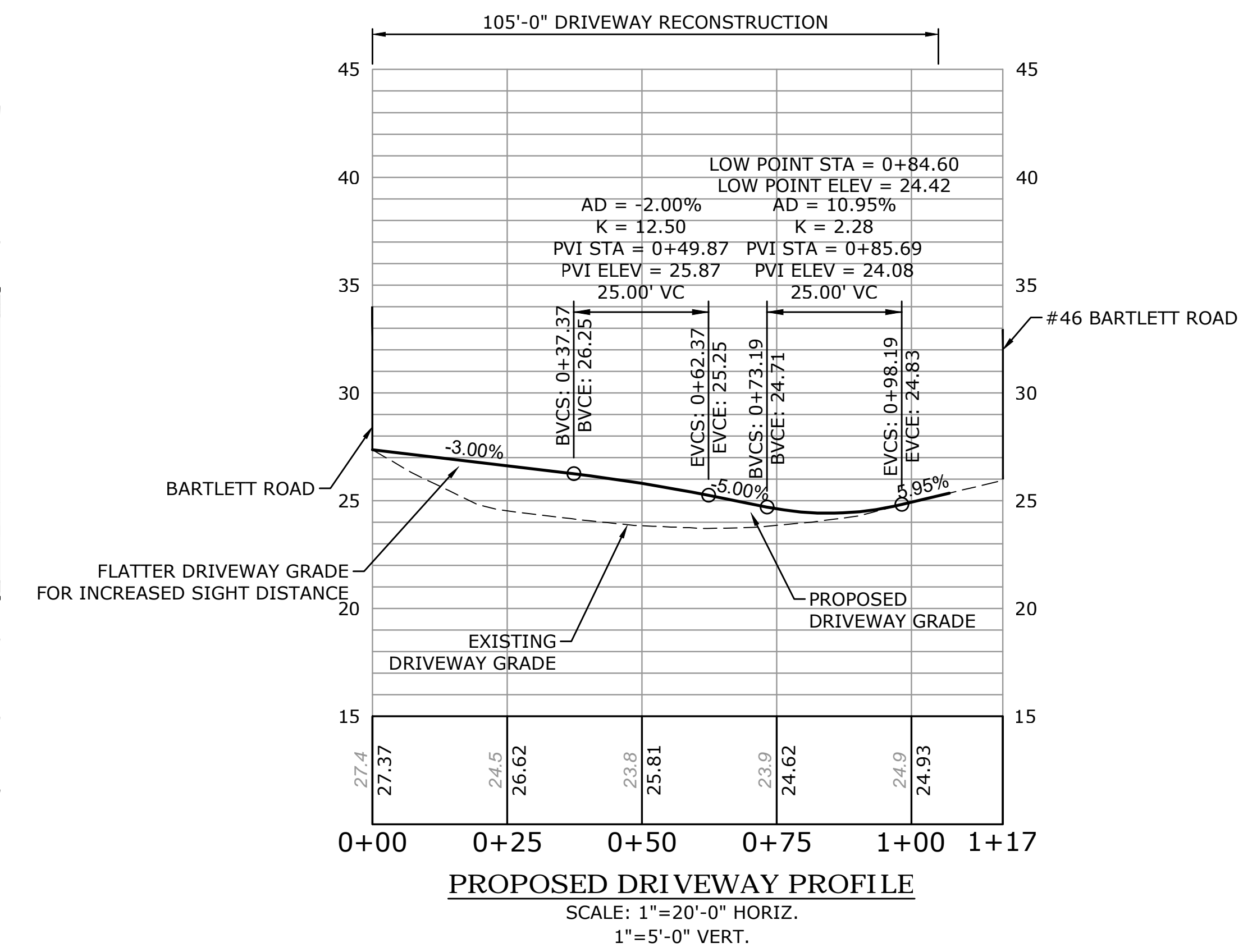
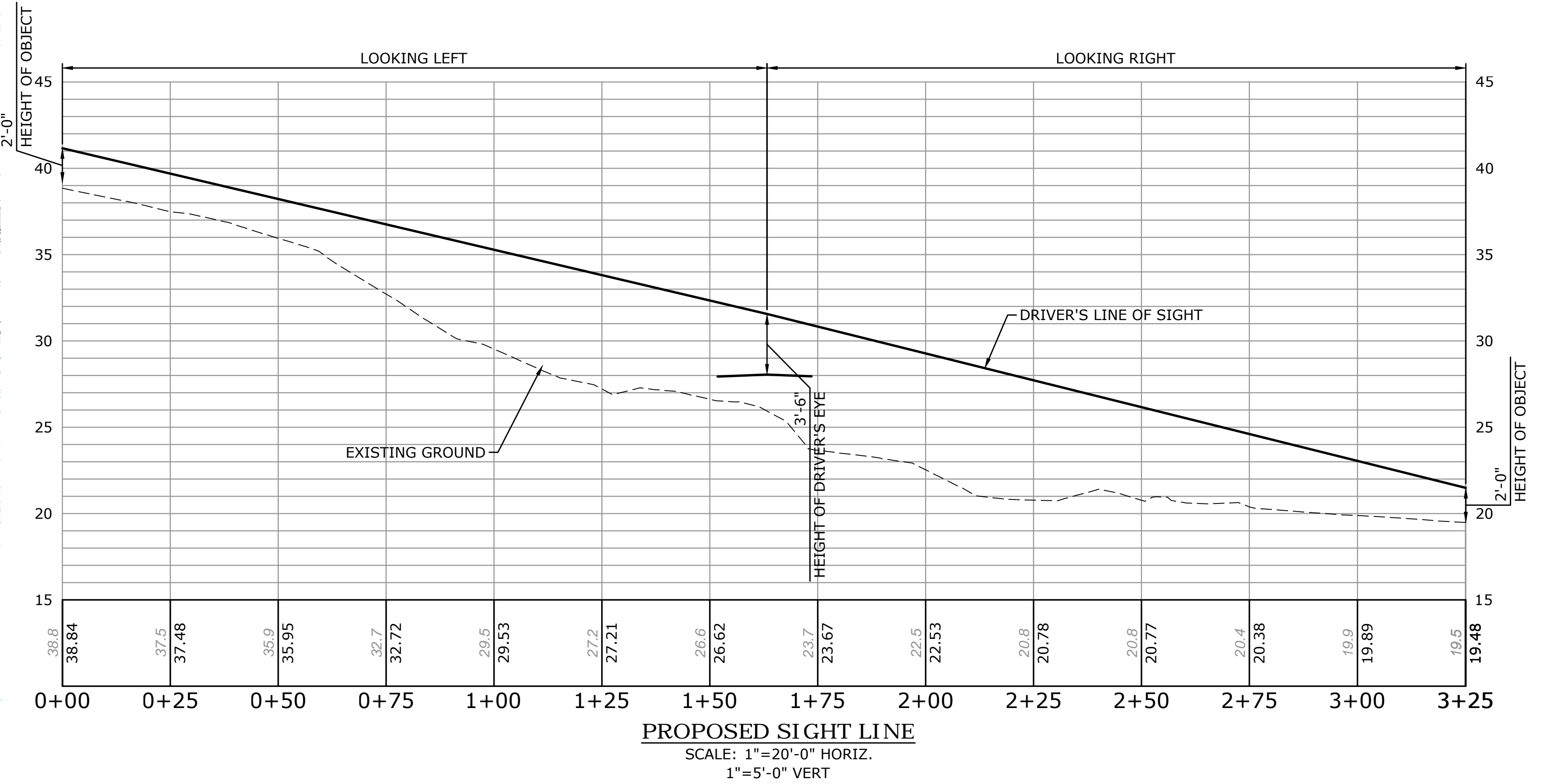
NP DESIGNED	NP DRAWN	KP CHECKED
AS NOTED		
SCALE		
DATE		
JUNE 30, 2022		
PROJECT NO.		
11982.00016		
SHEET NO.		
12 OF 21		

STR-01

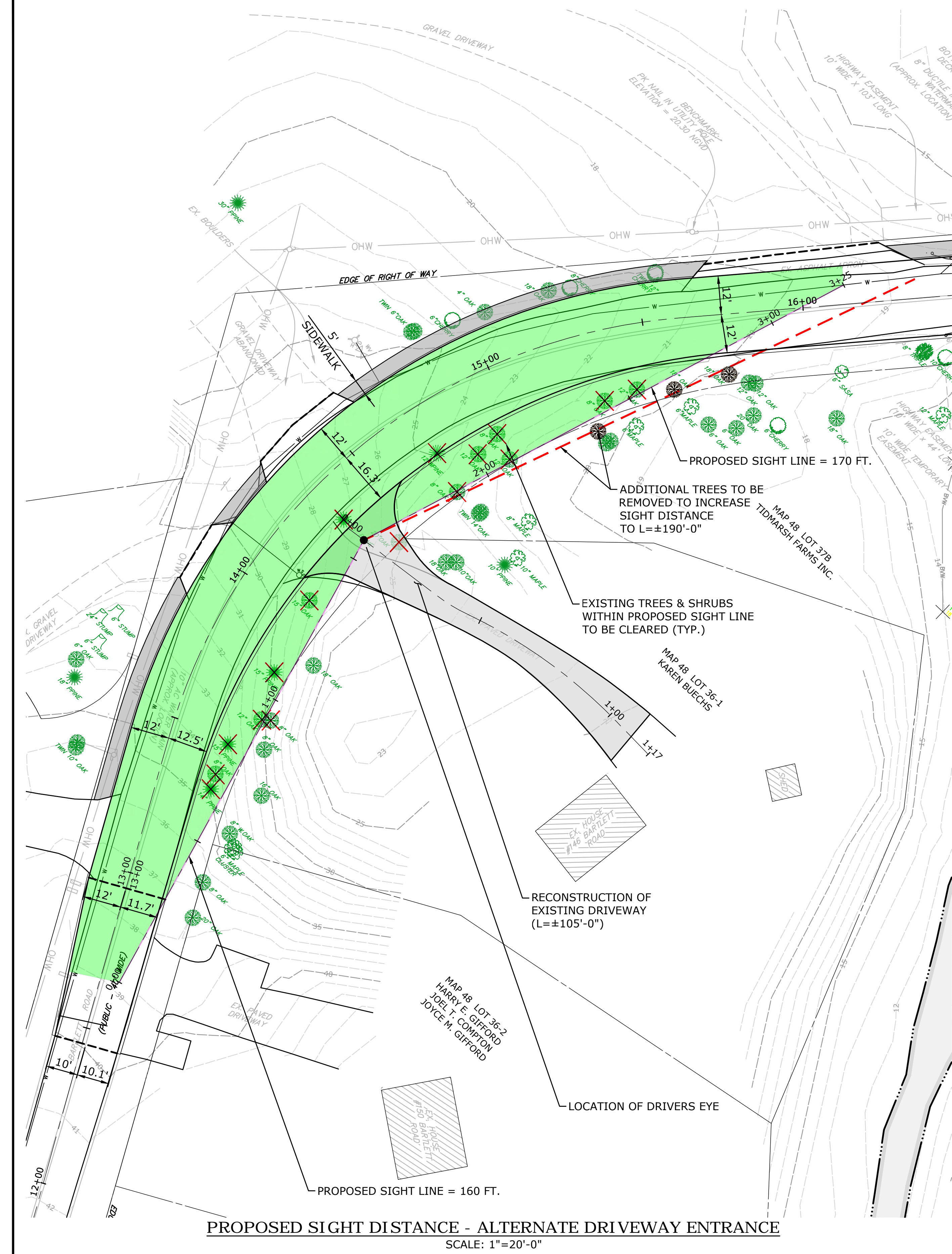
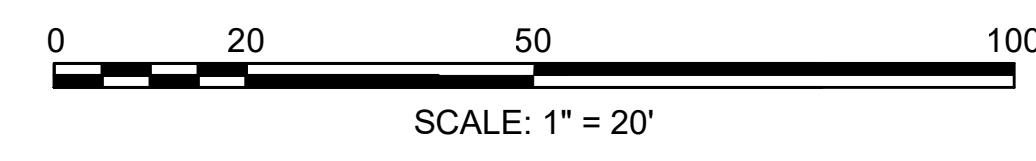
PLYMOUTH  
BARTLETT ROAD

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	4	X
PROJECT FILE NO. 11982.00016			

SIGHT DISTANCE - ALTERNATE



- LEGEND
- PROPOSED SIGHT DISTANCE
  - ADDITIONAL SIGHT DISTANCE
  - PROPOSED CLEAR AREA OF SIGHT
  - RECONSTRUCTION OF EXISTING DRIVEWAY
  - REMOVE EXISTING TREE
  - ADDITIONAL TREE REMOVAL



PROPOSED SIGHT DISTANCE - ALTERNATE DRIVEWAY ENTRANCE

SCALE: 1"=20'-0"