

REQUEST FOR CONSTRUCTION BIDS
April 21, 2026

Cross Brothers Dam Removal
Northfield, Vermont

1.0 *Project Background*

Cross Brothers Dam (VT Dam # 143.05) is an obsolete and breached, Low Hazard concrete gravity dam located on the Dog River in Northfield, VT. The existing dam was constructed in 1924 to replace the timber crib structure that was originally built in 1812. The dam is currently owned by the Town of Northfield. Due to the poor condition of the structure and its impact on flooding and fish passage, the Town has decided to remove the dam.

The dam is approximately 107 feet long and 23 feet tall. A 55-foot wide, 7.5-foot tall section of concrete was removed from the spillway in 1973 to reduce flooding along Water Street. The remaining spillway extends between exposed bedrock along the southern side of the river and a bedrock island to the north. Based on sediment probing data and the areas of exposed bedrock at both ends of the dam, the spillway is likely constructed on bedrock. A concrete intake structure with a 12-foot wide by 8.5-foot tall opening is located between the bedrock island and the northern riverbank. The intake structure, which includes remnants of a gated inlet, collapsed penstock pipes, and deteriorated training walls, appears to have been constructed by cutting a notch through the bedrock.

Northfield's sanitary sewer system crosses under the Dog River several times in the vicinity of Cross Brothers Dam and extends through a portion of the dam. Approximately 320 feet upstream of the dam, the sewer main crosses under the riverbed from south to north and travels through the northern riverbank to the dam. At the dam, the sewer pipe is embedded in the concrete floor of the intake structure and continues under the bypass channel to a manhole along the western bank of the river. The sewer line then passes under the river again connecting to a manhole on the eastern bank before heading north and running downstream along the eastern bank of the river. Another segment of the sewer system crosses under the river from south to north at the downstream end of the dam's scour pool, tying into the mainline of the sewer at the manhole along the bypass channel.

This project is being managed by the Vermont Natural Resources Council (VNRC) with support from the Town of Northfield. The Contractor will be obligated to comply with the following sections of the *Standard State Provisions for Contracts and Grants*, dated February 13, 2026 (Attachment C): Section 10 ("False Claims Act"); Section 11 ("Whistleblower Protections"); Section 12 ("Use and Protection of State Information"); Section 14.A ("Fair Employment Practices and Americans with Disabilities Act"); Section 16 ("Taxes Due to the State"); Section 18 ("Child Support"); Section 20 ("No Gifts or Gratuities"); Section 22 ("Certification Regarding Debarment"); Section 30 ("State Facilities"); and Section 32.A ("Certification Regarding Use of State Funds").

VNRC is currently seeking competitive bids to remove the dam and restore the stream channel. Companies that are women-owned, minority-owned, Section 3, and local small businesses are encouraged to submit bids. Project construction is anticipated between July 1 and October 1, 2026.

Disturbance must be minimized and contained with sediment and erosion controls measures that will be applied and maintained throughout the duration of the project.

2.0 General Scope of Work

Work tasks will generally involve removal of the concrete dam and appurtenant structures; removal of the accumulated sediment; stream channel restoration; installation of stone armor at the sanitary sewer crossings and along the north riverbank; and site restoration (see construction plans in Attachment A).

The dam removal project entails removal of the concrete spillway, intake structure, and approximately 1,800 cubic yards of accumulated sediment upstream of the dam to reduce upstream flooding, eliminate the risk of dam failure, protect local infrastructure, improve fish passage, naturalize the river corridor, establish river access, and increase site safety. A short section of the concrete spillway will be left in place to support the south riverbank and the buildings at the top of the bank. Additionally, the concrete floor of the intake structure will remain to protect the sanitary sewer line that is embedded in the concrete. All other dam components will be removed down to bedrock.

The dam removal will include the demolition and removal of an estimated concrete volume of 1,100 cubic yards and include some metal outlet works. All concrete, reinforcing steel, and metal dam components shall be removed from the river and disposed of or recycled off site. The project will also include installation of stone armor to protect the sanitary sewer pipe, regrading of the sediment bar downstream of the dam, and restoration of the floodplain and riverbanks with riparian plantings. A total volume of 1,000 cubic yards of Type IV stone fill will be needed to armor the northern riverbank along the sanitary sewer line and several sections of the southern riverbank, and to construct the armored riffles at the upstream and downstream sewer crossings. Some of the impounded sediment shall be reused to cover the armor, fill the void space between stones, and fill the eroded bypass channel downstream of the intake structure.

The estimated excess 1,200 cubic yards of sand and gravel river sediment shall be hauled off site by the Contractor and wasted or stockpiled in a legal disposal site for future use. The sediment disposal site must be in an upland area that has been previously disturbed, such as a gravel pit, and will not be located in a wetland, floodplain, or river corridor. The Town pit on Cemetery Street in Northfield has been permitted for sediment disposal. Alternative disposal sites must be submitted to the Project Engineer for regulatory approval.

Work hours will be Monday through Friday from 7 AM to 5 PM. Work is not allowed on weekends and holidays. Any change to work hours must be approved by the Project Engineer and Town, once the Town seeks the approval of nearby landowners. All disturbed areas, including any damage done to private property, shall be returned to pre-construction conditions including repairs of roads, parking lots, curbs, and sidewalks. Disturbance shall be minimized during construction.

3.0 Owner's Project Representation

The owner of the project is the Town of Northfield. The manager of the dam removal is Vermont Natural Resources Council (VNRC) and engineering oversight of the project will be conducted by VNRC's appointed Project Engineer – SLR Consulting. The Contractor will be obligated to comply with directives from the Project Engineer to ensure meeting all contract provisions and design specifications while

complying with permit requirements. The Contractor will be obligated to adhere to the Terms and Conditions in the Contract with the Owner.

The Contractor will also need to coordinate with a Historic Resources Specialist that will be responsible for documenting the dam as it is being removed. This work will be coordinated by VNRC and the Project Engineer, and will include short pauses in work for photo-documentation as the initial pieces of the dam are being removed.

4.0 Construction Access

Construction access will be established from N. Main Street at two locations.

- Construction Access No. 1 - Between the Dollar General (108 N. Main Street) and the N. Main Street Bridge on Town-owned land.
- Construction Access No. 2 - The parking lot at the Fernandez property (17 N. Main Street) where the Vermont Agency of Transportation (VTrans) has established an easement for the N. Main Street Bridge replacement project.

The Town has acquired the land between the Dollar General and the N. Main Street Bridge so that a river access path can be established in the future. This land will be used to access the dam. All construction access roads shall be removed, and the land restored, following project completion. Removal of vegetation at the access locations shall be minimized. To protect buried infrastructure, steel plates or an approved equivalent shall be temporarily installed whenever crossing the VTrans duct bank structure, buried utility lines, or the sanitary sewer lines with heavy construction equipment (See Sheet CON-1 in Attachment A). Excavation and soil disturbance shall be avoided when installing Construction Access No. 1 to protect buried archeologically resources. Construction access routes must be constructed as specified on Sheet DE-1 (Attachment A) to minimize ground disturbance.

Utility relocation work associated with the N. Main Street Bridge Replacement Project will occur concurrently with the dam removal project. The utility lines being relocated are near the entrance of Construction Access No. 1 (see Sheet CON-1 in Attachment A). The Contractor will need to coordinate with the utility companies, their Contractors, and VTrans to avoid interfering with the utility work.

If the Contractor wishes to leave the Town's land or the VTrans easement, permission is required from landowners that must be requested by the Contractor and approved by the landowner, Town, and Project Engineer. All abutters have been notified about the project and will be notified again prior to the start of construction.

5.0 Sequence of Work

A possible sequence of work is provided in the construction plans (see Attachment A). The selected Contractor may suggest adjustments to this sequence or a different sequence of events. The final sequence of work will ultimately be determined by the Contractor and submitted to the Project Engineer for review and approval prior to construction.

6.0 *Specifications*

Primary technical specifications are included in the details and notes on the construction plans (see Attachment A). The Contractor shall refer to the VTrans 2024 Standard Specifications for Construction. A formal technical specification package or project manual does not exist for this project.

7.0 *Sediment and Erosion Control*

Sediment and erosion control practices shall adhere to the Low Risk Site Handbook for Erosion Prevention and Sediment Control Plan (June 2025) as construction activities are anticipated to disturb less than 1 acre of upland area. Sediment and erosion control notes, water control notes, and details are included in the construction plans (see Attachment A). Silt fencing will be required around any stockpiled materials to contain sediment during construction. Water control is needed during some phases of construction to prevent siltation of the stream. Turbid water is to be treated before discharge. Limits of area of disturbed earth (1 acre) and length of time of unstabilized disturbance (7 days) have been established to minimize impact to the stream. A water control plan must be submitted to the Project Engineer and Regional River Management Engineer no less than 30 days prior to the proposed start of construction.

8.0 *Construction Notes*

Construction notes are contained in the construction plans (see Attachment A).

9.0 *Construction Schedule*

Construction is planned for July 1, 2026 to October 1, 2026. A Notice to Proceed will be issued by the Project Engineer following a pre-construction site walk and approval of submittals prior to the start of work. The Project Engineer will provide periodic inspections of the site to determine if proper design implementation is taking place, permit conditions are being followed, the site remains stable, and site recovery is acceptable.

10.0 *Regulatory Requirements*

Federal, state, and local permitting have been completed for this project and conditions of each permit must be followed during construction. The Contractor must review permits in full to understand all regulatory requirements prior to construction. All permits must be posted at the project site prior to the start of construction. The following permits have been received (Attachments C, D, E, F).

- US Army Corps of Engineers Programmatic General Permit
- VT Dam Order
- Vermont Stream Alteration Permit
- Northfield Development Review Permit

11.0 *Insurance Requirements*

Prior to execution of a contract, the Contractor must provide VNRC and the Town with a Certificate of Insurance showing coverage that meets the following requirements.

Workers' Compensation Insurance. The policy shall cover the obligations of the Contractor in accordance with the Workers' Compensations Law and Disability Benefits Law covering all operations under the Contract, whether performed by it, or by its subcontractor.

Liability and Property Damage Insurance. Unless otherwise specified, each policy shall have limits not less than: \$2,000,000 combined (Bodily Injury and Property Damage); \$3,000,000 aggregate, single limit per occurrence.

12.0 Compensation

Payment for the project will be made in monthly installments based on a schedule of values of the bid items. The final payment will only to be made after project completion and approval from the Project Engineer following a final site inspection. Payment will be based on percent complete of the lump sum bid items. Prior approval is needed from the Project Engineer for all change orders. All invoices will be emailed to Karina Dailey of VNRC at kdailey@vnrc.org and copied to the Project Engineer Ethan Ely at eely@slrconsulting.com for review and payment by the Town upon approval.

13.0 Bid Submittal Information & Format

Bids shall be presented on the enclosed bid sheet (Attachment G), along with two project references for past work of a similar nature. Bid proposals must be received via email to Karina Dailey at kdailey@vnrc.org and copied to the Project Engineer at eely@slrconsulting.com by 4:00 pm Thursday, May 21. A listing of bid results will be emailed to all bidders.

Notice of award is anticipated by Friday, May 29, 2026. VNRC and the Town reserves the right to reject any or all bids on its own motion. VNRC reserves the right to conduct value engineering with one or more of the lowest and most qualified bidders.

A mandatory pre-bid site showing is planned for Friday May 8, 2026 at 10:00 AM. Meet at the project site.

Questions about the bid should be sent in writing to Ethan Ely at SLR Consulting (eely@slrconsulting.com) and will be accepted until 5:00 pm on Wednesday May 13, 2026. Final responses to questions will be issued in a final addendum by 5:00 pm Friday May 18, 2026.

Electronic copies of the construction plans are included with this request. For questions contact Ethan Ely at SLR Consulting. (802-882-8335; eely@slrconsulting.com).

14.0 Attachments

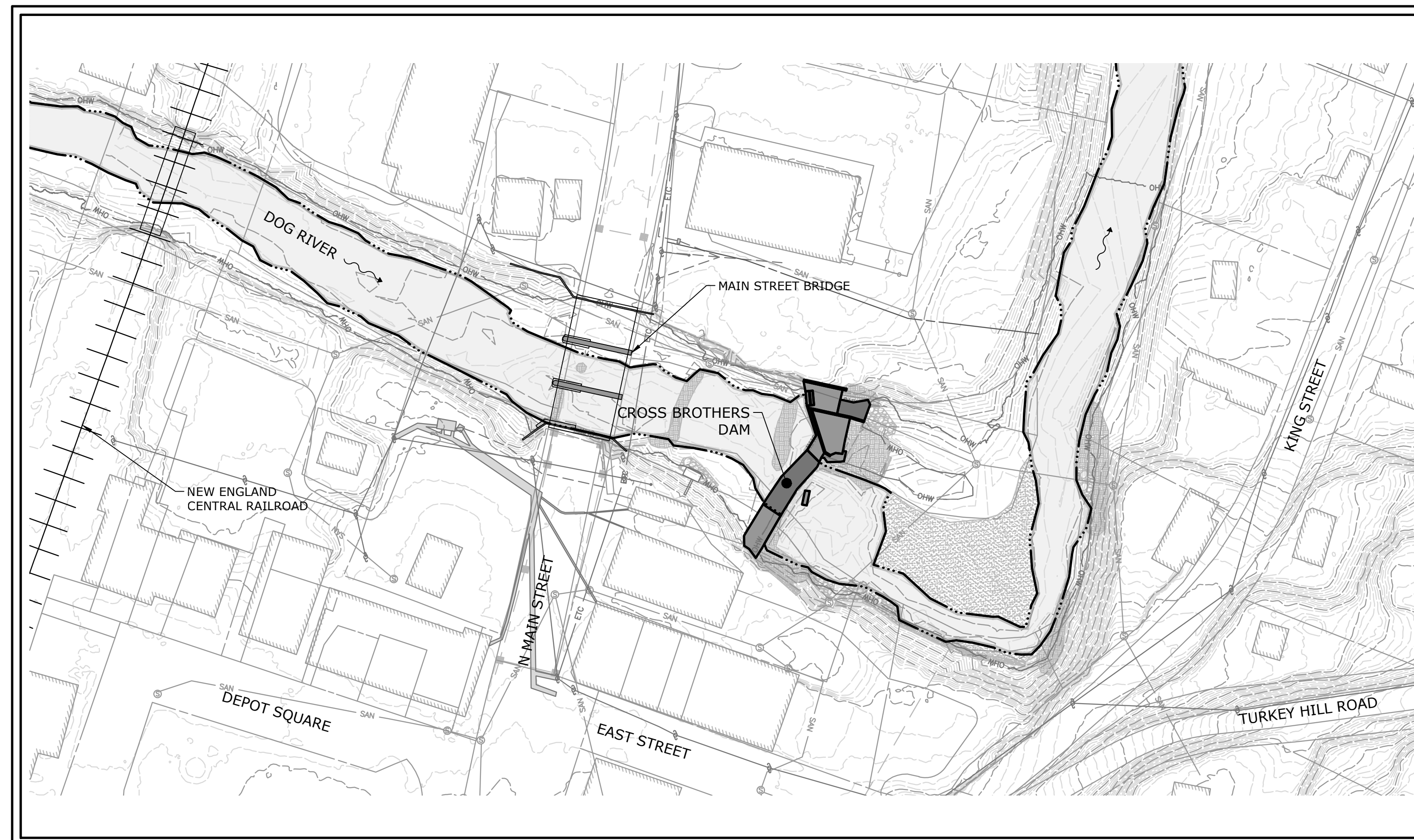
- Attachment A: Construction Plans
- Attachment B: Standard State Contract Provisions
- Attachment C: US Army Corps of Engineers Programmatic General Permit
- Attachment D: Vermont Dam Order
- Attachment E: Vermont Stream Alteration Permit
- Attachment F: Northfield Development Review Permit
- Attachment G: Bid Sheet

Attachment A
Construction Plans

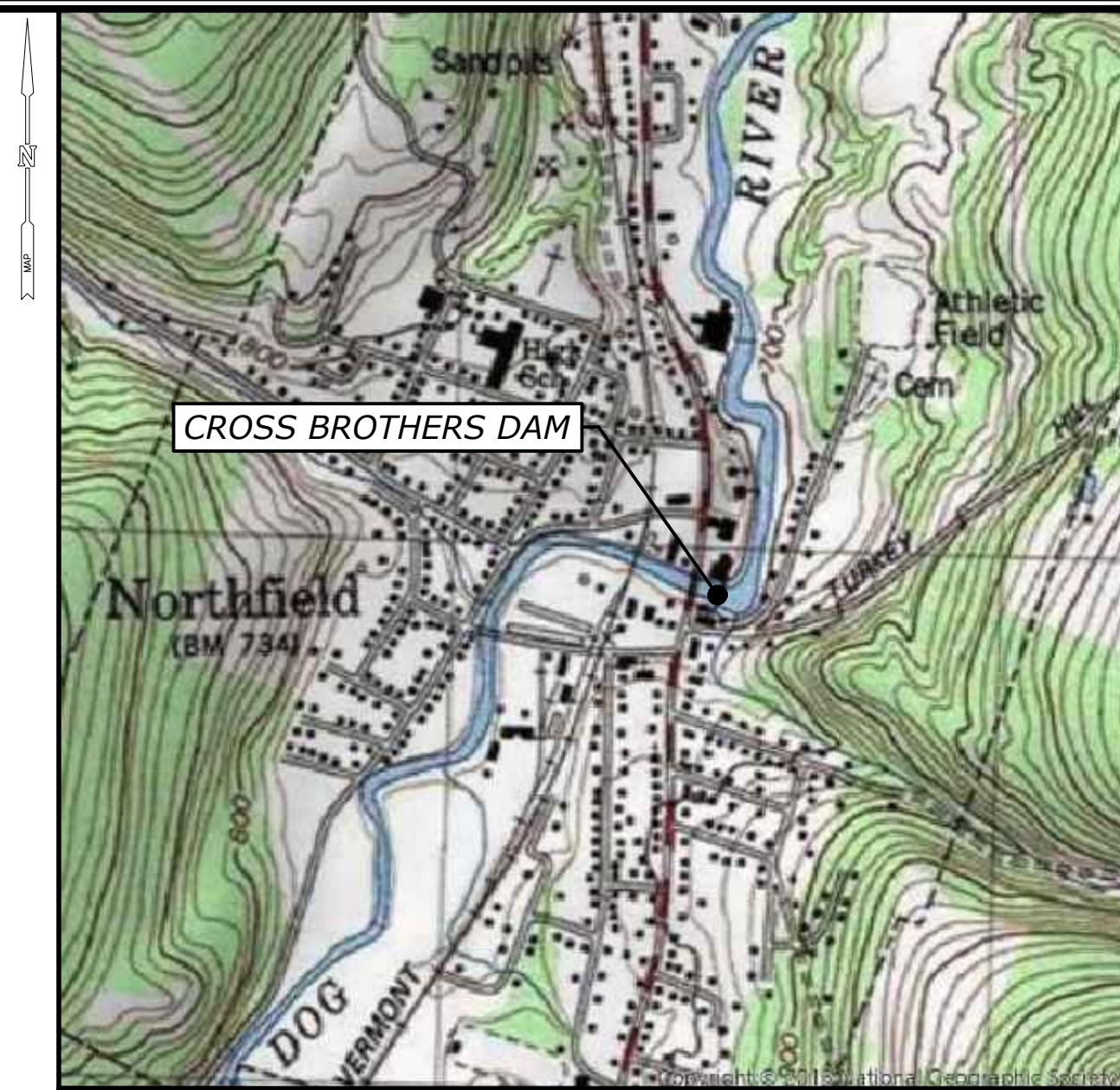
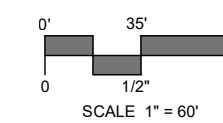
CROSS BROTHERS DAM REMOVAL

DOG RIVER
NORTHFIELD, VT

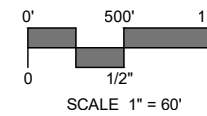
FINAL DESIGN
DECEMBER 15, 2025



PROJECT SITE VICINITY MAP:



LOCATION MAP:



PREPARED FOR:

TOWN OF NORTHFIELD
51 SOUTH MAIN STREET
NORTHFIELD, VERMONT 05663



VERMONT NATURAL RESOURCES COUNCIL
11 BALDWIN STREET
MONTPELIER, VT 05602



LIST OF DRAWINGS

NO.	NAME	TITLE
1	-	TITLE SHEET
2 - 3	EX-1 - EX-2	SITE PLAN - EXISTING CONDITIONS
4	SP-1	SITE PLAN - PROPOSED LAYOUT
5	SP-2	SITE PLAN - GRADING
6	SP-3	SITE PLAN - RESTORATION
7	PR-1	DOG RIVER PROFILE
8	ST-1	STRUCTURE - SEWER PROFILE
9 - 10	XS-1 - XS-2	RIVER CROSS SECTIONS
11	ST-2	STRUCTURE - REMOVALS
12	CON-1	SITE PLAN - CONSTRUCTION
13 - 14	DE-1 - DE-2	SITE DETAILS

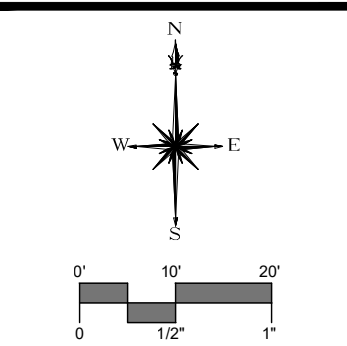
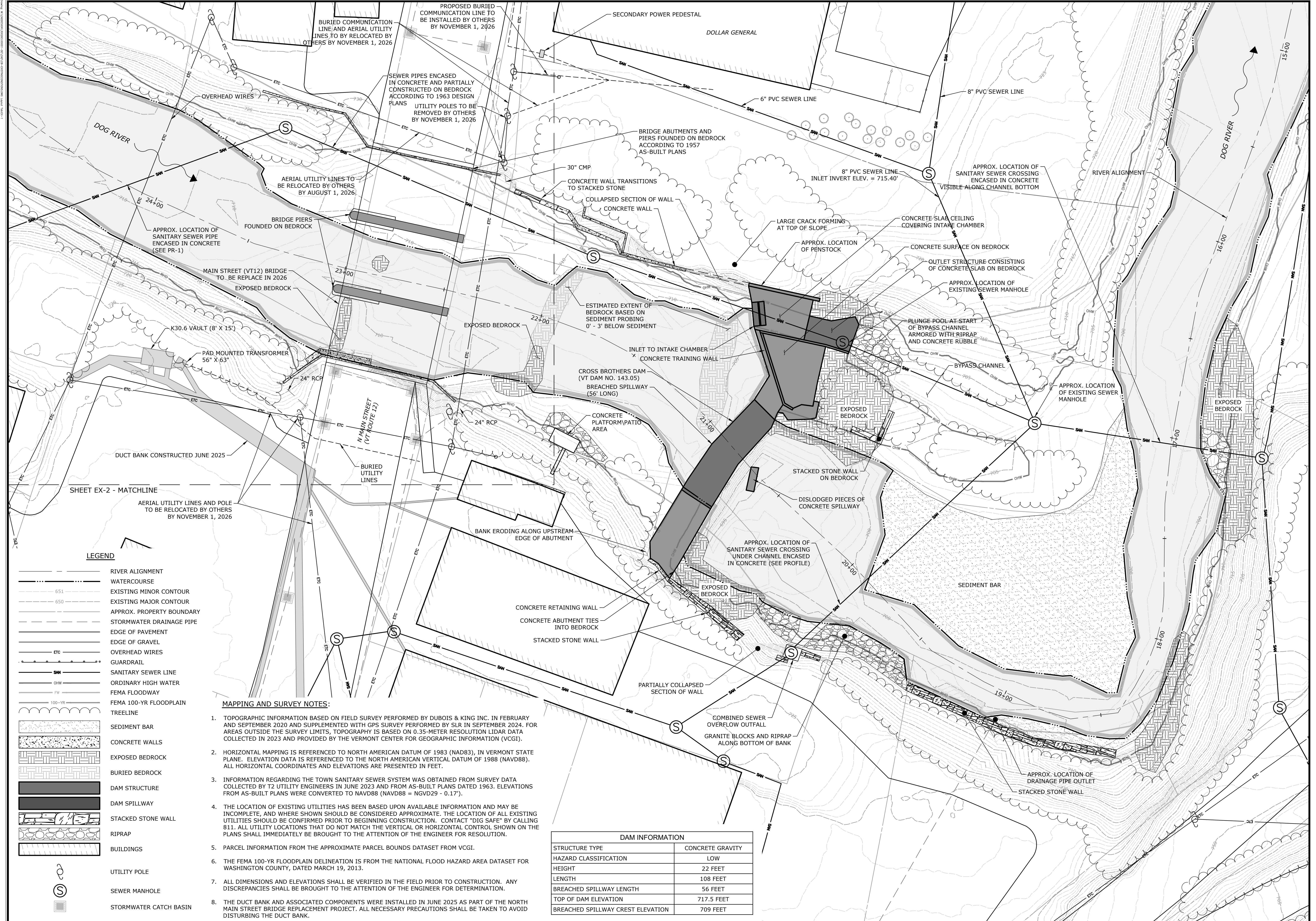
PREPARED BY:



1 SOUTH MAIN STREET
WATERBURY, VT 05676
802.882.8335
SLRCONSULTING.COM



Know what's below.
Call before you dig.
www.cbyd.com



SLR
 SOUTH MAIN STREET
 NORTHFIELD, VT 05646
 802.882.8335
 SLRCONSULTING.COM

DESCRIPTION	DATE	BY
UPDATED BASED ON AS-BUILT UTILITY PLANS FOR DUCT BANK	03/25/2026	EE

FINAL DESIGN

SITE PLAN - EXISTING CONDITIONS
CROSS BROTHERS DAM REMOVAL
 DOG RIVER
 NORTHFIELD, VT

EE	EE	RS
DESIGNED	DRAWN	CHECKED

SCALE: 1"=20'
 DATE: **DECEMBER 15, 2025**
 PROJECT NO: 146.300263.00001
 SHEET NO: **2 OF 14**
EX-1

LEGEND

	RIVER ALIGNMENT
	WATERCOURSE
	EXISTING MINOR CONTOUR
	EXISTING MAJOR CONTOUR
	APPROX. PROPERTY BOUNDARY
	STORMWATER DRAINAGE PIPE
	EDGE OF PAVEMENT
	EDGE OF GRAVEL
	OVERHEAD WIRES
	GUARDRAIL
	SANITARY SEWER LINE
	ORDINARY HIGH WATER
	FEMA FLOODWAY
	FEMA 100-YR FLOODPLAIN
	TREELINE
	SEDIMENT BAR
	CONCRETE WALLS
	EXPOSED BEDROCK
	BURIED BEDROCK
	DAM STRUCTURE
	DAM SPILLWAY
	STACKED STONE WALL
	RIPRAP
	BUILDINGS
	UTILITY POLE
	SEWER MANHOLE
	STORMWATER CATCH BASIN

MAPPING AND SURVEY NOTES:

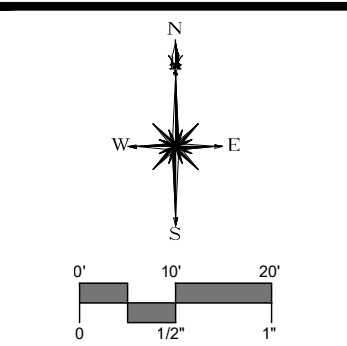
- TOPOGRAPHIC INFORMATION BASED ON FIELD SURVEY PERFORMED BY DUBOIS & KING INC. IN FEBRUARY AND SEPTEMBER 2020 AND SUPPLEMENTED WITH GPS SURVEY PERFORMED BY SLR IN SEPTEMBER 2024. FOR AREAS OUTSIDE THE SURVEY LIMITS, TOPOGRAPHY IS BASED ON 0.35-METER RESOLUTION LIDAR DATA COLLECTED IN 2023 AND PROVIDED BY THE VERMONT CENTER FOR GEOGRAPHIC INFORMATION (VCGI).
- HORIZONTAL MAPPING IS REFERENCED TO NORTH AMERICAN DATUM OF 1983 (NAD83), IN VERMONT STATE PLANE. ELEVATION DATA IS REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88). ALL HORIZONTAL COORDINATES AND ELEVATIONS ARE PRESENTED IN FEET.
- INFORMATION REGARDING THE TOWN SANITARY SEWER SYSTEM WAS OBTAINED FROM SURVEY DATA COLLECTED BY T2 UTILITY ENGINEERS IN JUNE 2023 AND FROM AS-BUILT PLANS DATED 1963. ELEVATIONS FROM AS-BUILT PLANS WERE CONVERTED TO NAVD88 (NAVD88 = NGVD29 - 0.17').
- THE LOCATION OF EXISTING UTILITIES HAS BEEN BASED UPON AVAILABLE INFORMATION AND MAY BE INCOMPLETE, AND WHERE SHOWN SHOULD BE CONSIDERED APPROXIMATE. THE LOCATION OF ALL EXISTING UTILITIES SHOULD BE CONFIRMED PRIOR TO BEGINNING CONSTRUCTION. CONTACT "DIG SAFE" BY CALLING 811. ALL UTILITY LOCATIONS THAT DO NOT MATCH THE VERTICAL OR HORIZONTAL CONTROL SHOWN ON THE PLANS SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR RESOLUTION.
- PARCEL INFORMATION FROM THE APPROXIMATE PARCEL BOUNDS DATASET FROM VCGI.
- THE FEMA 100-YR FLOODPLAIN DELINEATION IS FROM THE NATIONAL FLOOD HAZARD AREA DATASET FOR WASHINGTON COUNTY, DATED MARCH 19, 2013.
- ALL DIMENSIONS AND ELEVATIONS SHALL BE VERIFIED IN THE FIELD PRIOR TO CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR DETERMINATION.
- THE DUCT BANK AND ASSOCIATED COMPONENTS WERE INSTALLED IN JUNE 2025 AS PART OF THE NORTH MAIN STREET BRIDGE REPLACEMENT PROJECT. ALL NECESSARY PRECAUTIONS SHALL BE TAKEN TO AVOID DISTURBING THE DUCT BANK.

DAM INFORMATION	
STRUCTURE TYPE	CONCRETE GRAVITY
HAZARD CLASSIFICATION	LOW
HEIGHT	22 FEET
LENGTH	108 FEET
BREACHED SPILLWAY LENGTH	56 FEET
TOP OF DAM ELEVATION	717.5 FEET
BREACHED SPILLWAY CREST ELEVATION	709 FEET



LEGEND

- RIVER ALIGNMENT
- WATERCOURSE
- EXISTING MINOR CONTOUR
- EXISTING MAJOR CONTOUR
- APPROX. PROPERTY BOUNDARY
- STORMWATER DRAINAGE PIPE
- EDGE OF PAVEMENT
- EDGE OF GRAVEL
- OVERHEAD WIRES
- GUARDRAIL
- SANITARY SEWER LINE
- ORDINARY HIGH WATER
- FEMA FLOODWAY
- FEMA 100-YR FLOODPLAIN
- TREELINE
- SEDIMENT BAR
- CONCRETE WALLS
- EXPOSED BEDROCK
- BURIED BEDROCK
- DAM STRUCTURE
- DAM SPILLWAY
- STACKED STONE WALL
- RIPRAP
- BUILDINGS
- UTILITY POLE
- SEWER MANHOLE
- STORMWATER CATCH BASIN

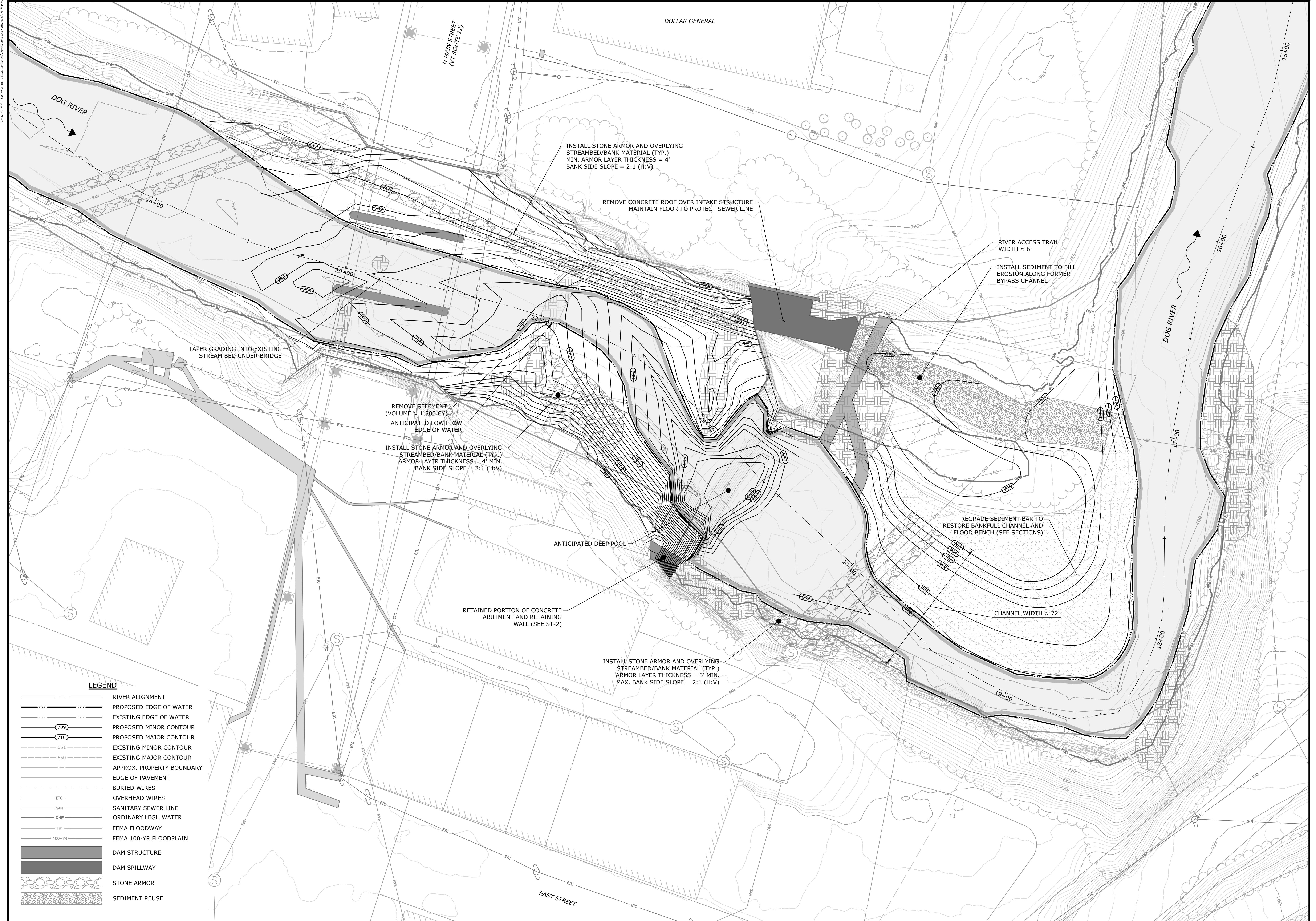


DESCRIPTION	DATE	BY
UPDATED BASED ON AS-BUILT UTILITY PLANS FOR DUCT BANK	03/23/2026	EE

FINAL DESIGN

SITE PLAN - EXISTING CONDITIONS
CROSS BROTHERS DAM REMOVAL
 DOG RIVER
 NORTHFIELD, VT

EE	EE	RS
DESIGNED	DRAWN	CHECKED
SCALE: 1"=20'		
DATE: DECEMBER 15, 2025		
PROJECT NO: 146.300263.00001		
SHEET NO: 3 OF 14		
EX-2		



DOLLAR GENERAL

N MAIN STREET
(VT ROUTE 12)

DOG RIVER

INSTALL STONE ARMOR AND OVERLYING
STREAMBED/BANK MATERIAL (TYP.)
MIN. ARMOR LAYER THICKNESS = 4'
BANK SIDE SLOPE = 2:1 (H:V)

REMOVE CONCRETE ROOF OVER INTAKE STRUCTURE
MAINTAIN FLOOR TO PROTECT SEWER LINE

RIVER ACCESS TRAIL
WIDTH ≈ 6'

INSTALL SEDIMENT TO FILL
EROSION ALONG FORMER
BYPASS CHANNEL

TAPER GRADING INTO EXISTING
STREAM BED UNDER BRIDGE

REMOVE SEDIMENT
(VOLUME ≈ 1,800 CY)
ANTICIPATED LOW FLOW
EDGE OF WATER

INSTALL STONE ARMOR AND OVERLYING
STREAMBED/BANK MATERIAL (TYP.)
ARMOR LAYER THICKNESS = 4' MIN.
BANK SIDE SLOPE = 2:1 (H:V)

ANTICIPATED DEEP POOL

RETAINED PORTION OF CONCRETE
ABUTMENT AND RETAINING
WALL (SEE ST-2)

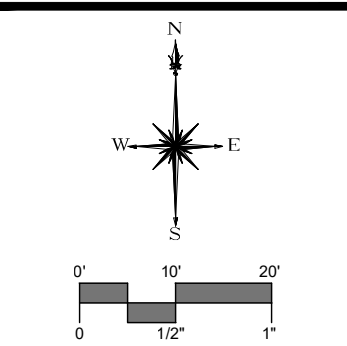
INSTALL STONE ARMOR AND OVERLYING
STREAMBED/BANK MATERIAL (TYP.)
ARMOR LAYER THICKNESS = 3' MIN.
MAX. BANK SIDE SLOPE = 2:1 (H:V)

REGRADE SEDIMENT BAR TO
RESTORE BANKFULL CHANNEL AND
FLOOD BENCH (SEE SECTIONS)

CHANNEL WIDTH ≈ 72'

LEGEND

- RIVER ALIGNMENT
- PROPOSED EDGE OF WATER
- EXISTING EDGE OF WATER
- 709 PROPOSED MINOR CONTOUR
- 710 PROPOSED MAJOR CONTOUR
- 651 EXISTING MINOR CONTOUR
- 650 EXISTING MAJOR CONTOUR
- - - - - APPROX. PROPERTY BOUNDARY
- EDGE OF PAVEMENT
- - - - - BURIED WIRES
- ETC OVERHEAD WIRES
- SAN SANITARY SEWER LINE
- OHW ORDINARY HIGH WATER
- FEMA FLOODWAY
- 100-YR FEMA 100-YR FLOODPLAIN
- DAM STRUCTURE
- DAM SPILLWAY
- STONE ARMOR
- SEDIMENT REUSE



DESCRIPTION	DATE	BY
ADDED ARMOR TO SOUTH BANK	04/21/2025	EE
DOWNSTREAM OF DAM		EE
UPDATED BASED ON AS BUILT	03/22/2026	EE
UTILITY PLANS FOR DUCT BANK		

FINAL DESIGN

SITE PLAN - GRADING
CROSS BROTHERS DAM REMOVAL
 DOG RIVER
 NORTHFIELD, VT

DESIGNED	DRAWN	CHECKED
EE	EE	RS

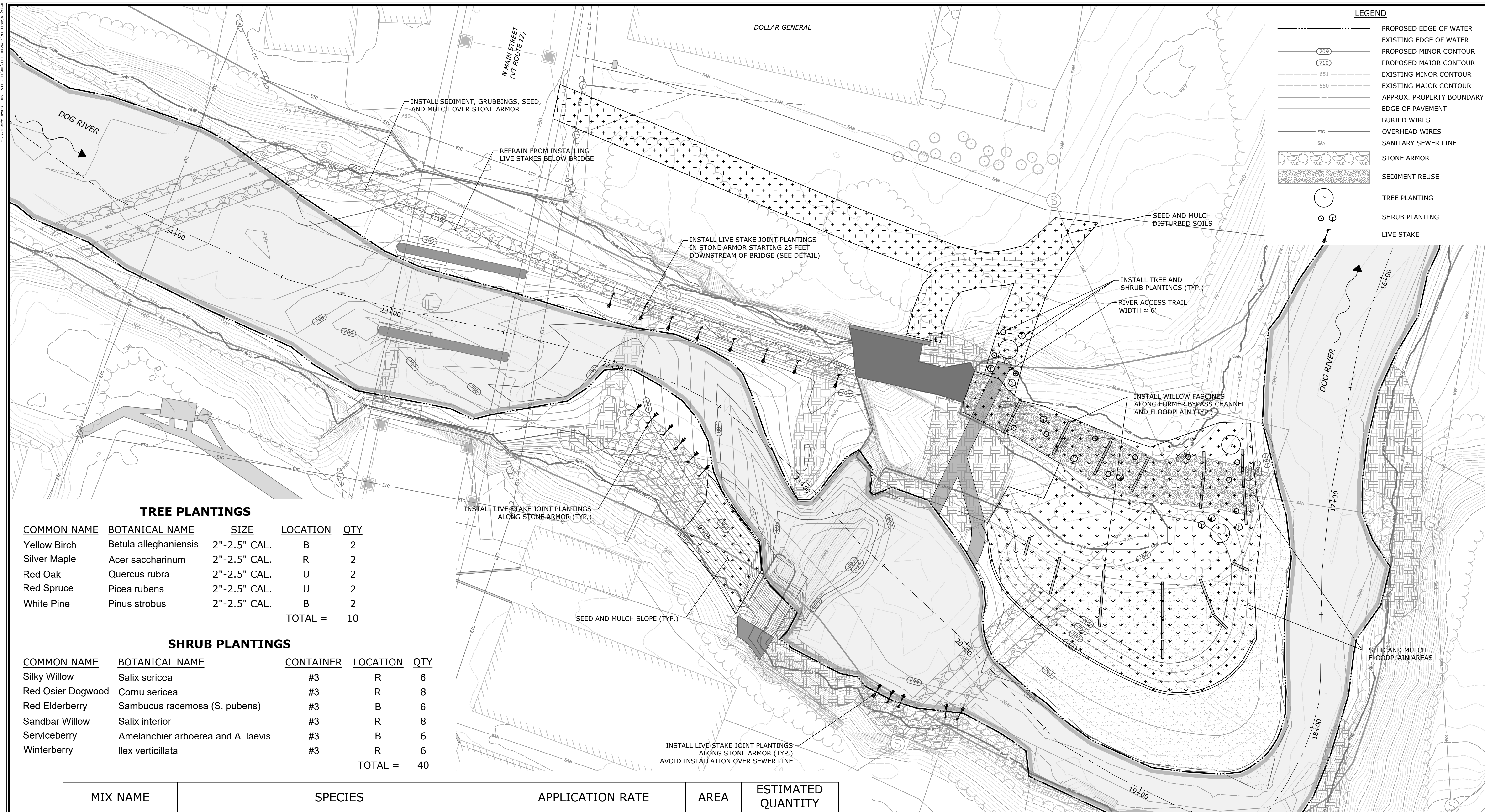
SCALE: 1"=20'

DATE: DECEMBER 15, 2025

PROJECT NO: 146.300263.00001

SHEET NO: 5 OF 14

SP-2



TREE PLANTINGS

COMMON NAME	BOTANICAL NAME	SIZE	LOCATION	QTY
Yellow Birch	Betula alleghaniensis	2"-2.5" CAL.	B	2
Silver Maple	Acer saccharinum	2"-2.5" CAL.	R	2
Red Oak	Quercus rubra	2"-2.5" CAL.	U	2
Red Spruce	Picea rubens	2"-2.5" CAL.	U	2
White Pine	Pinus strobus	2"-2.5" CAL.	B	2
TOTAL =				10

SHRUB PLANTINGS

COMMON NAME	BOTANICAL NAME	CONTAINER	LOCATION	QTY
Silky Willow	Salix sericea	#3	R	6
Red Osier Dogwood	Cornu sericea	#3	R	8
Red Elderberry	Sambucus racemosa (S. pubens)	#3	B	6
Sandbar Willow	Salix interior	#3	R	8
Serviceberry	Amelanchier arboorea and A. laevis	#3	B	6
Winterberry	Ilex verticillata	#3	R	6
TOTAL =				40

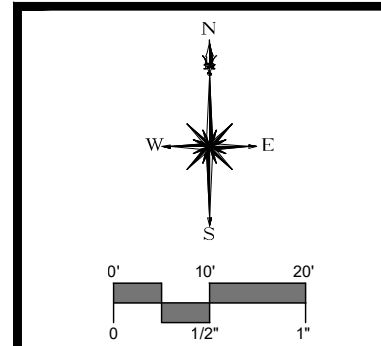
MIX NAME	SPECIES	APPLICATION RATE	AREA	ESTIMATED QUANTITY
VERMONT NATIVE WILDFLOWER & GRASS MIX	Indianagrass (<i>Sorghastrum nutans</i>), Little bluestem (<i>Schizachyrium scoparium</i>), Virginia wild rye (<i>Elymus virginicus</i>), Side oats grama (<i>Bouteloua curtipendula</i>), Partiridge pea (<i>Chamaecrista fasciculata</i>), Black-eyed susan (<i>Rudbeckia hirta</i>), American senna (<i>Senna hebecarpa</i>), Golden alexanders (<i>Zizia aurea</i>), Big bluestem (<i>Andropogon gerardii</i>), Smooth ox-eye (<i>Heliopsis helianthoides</i>), Maryland senna (<i>Senna marilandica</i>), Whorled rosinweed (<i>Silphium trifoliatum</i>), Narrow-leaved goldenrod (<i>Euthamia graminifolia</i>)	35 LB/ACRE	0.30	15 LB
VAOT RURAL AREA MIX	Creeping Red Fescue (<i>Festuca rubra</i> Var. <i>Rubra</i>), Tall Fescue (<i>Festuca arundinacea</i>), Red Top (<i>Agrostis gigantea</i>), White Field Clover (<i>Trifolium repens</i>), Annual rye grass (<i>Lolium multiflorum</i>)	60 LB/ACRE (BROADCAST) 120 LB/ACRE (HYDROSEED)	0.30	20 LB

TREE PLANTING NOTES:

- THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO EXCAVATING PLANT PITS.
- PLANTINGS SHALL BE LIMITED TO THE PERIODS OF APRIL 15 - JUNE 15 OR SEPTEMBER 1 - OCTOBER 31.
- IN TREE PLANTING HOLES - TOPSOIL TO CONTAIN A MINIMUM OF 12% ORGANIC CONTENT (BY WEIGHT), AMEND SOIL WITH ORGANIC MATTER (LEAF COMPOST).
- THE LANDSCAPE CONTRACTOR SHALL PROVIDE A 4" MIN. DEPTH OF SHREDDED MULCH EXTENDING 1 FEET BEYOND PLANTING HOLE.
- INSTALL ANTI-HERBIVORY DEVICE AROUND ALL PLANTED TREES.
- QUANTITY AND PLACEMENT OF PLANTS ARE APPROXIMATE AND SHOULD BE ADJUSTED IN THE FIELD TO AVOID IMPACT TO EXISTING WOODY SHRUBS AND SMALL TREES ON THE SITE.
- WHERE A SIZE RANGE IS SPECIFIED AT LEAST 50% OF PLANTS PROVIDED SHALL BE OF THE LARGER SIZE.
- MAINTENANCE SHALL INCLUDE WATERING, MULCHING, REPLACEMENT OF SICK OR DEAD PLANTS, AND ALL OTHER CARE NEEDED FOR PROPER GROWTH OF THE PLANTS.
- WATER PLANTS SEVERAL TIMES A WEEK FOR THE FIRST FEW WEEKS IF NO SUBSTANTIAL RAIN FALLS. ALSO WATER DURING DRY SPELLS FOR THE FIRST SUMMER.
- ONE YEAR FROM THE DATE OF PLANTING, EVALUATE THE SURVIVAL RATE OF PLANTED TREES. IF MORE THAN 25% OF THE TREES ARE FOUND TO BE DEAD, REPLACE THE PLANTINGS TO ACHIEVE A MINIMUM OF 80% OF THE ORIGINAL PLANTING PLAN. ALL REPLACEMENTS SHALL BE OF THE SAME KIND AND SIZE OF PLANTS SPECIFIED IN THE PLANT LIST. THIS PLANTING PLAN HAS BEEN DEVELOPED TO ACHIEVE FULL RE-VEGETATION WITH 75% SURVIVAL.
- TREES TRANSPLANTED FROM THE SITE ARE NOT INCLUDED IN THE EVALUATION OF THE SURVIVAL RATE AND ARE NOT INCLUDED IN THE CONTRACTORS REPLACEMENT REQUIREMENTS.
- PLANT TREES/SHRUBS ACCORDING TO LOCATION IDENTIFIER (R = RIPARIAN FLOODPLAIN, U = UPLAND, B = BOTH).

RESTORATION NOTES:

- SEED BYPASS CHANNEL, FLOODPLAIN AREAS, AND STONE ARMORED BANKS WITH VERMONT NATIVE WILDFLOWER & GRASS MIX. OBTAIN SEED FROM VERMONT WETLAND PLANT SUPPLY OR APPROVED EQUAL. SEED ALL UPLAND SLOPES AND LAWN AREAS WITH VAOT RURAL AREA MIX. SEE VTRANS STANDARD SPECIFICATIONS FOR SEED MIX COMPOSITION. ALSO SEED WITH FAST GROWING ANNUALS SUCH AS WINTER RYE, BUCKWHEAT, OR OATS. APPLICATION RATE VARIES BY SPECIES.
- APPLY 2 INCHES STRAW MULCH OVER ALL SEEDED AREAS. AVERAGE APPLICATION RATE OF 2 TONS/ACRE. HAY IS NOT ALLOWED.
- ANY DISTURBED SOIL SLOPES 2:1 OR STEEPER SHALL BE STABILIZED WITH EROSION CONTROL BLANKET PER DIRECTION OF PROJECT ENGINEER, SEE DETAIL.
- REMOVE TEMPORARY ACCESS ROADS AND TEMPORARY STOCKPILE AREAS.
- RESTORE ALL ACCESS ROUTES USED DURING CONSTRUCTION TO PRE-EXISTING OR IMPROVED CONDITIONS, FILL RUTS CREATED BY EQUIPMENT TO RESTORE GRADE AND REVEGETATE AS NEEDED.
- CONTRACTOR IS RESPONSIBLE FOR REPAIRS TO SITE FEATURES IF DAMAGED BY CONSTRUCTION ACTIVITIES.
- RESTORE ALL OTHER DISTURBED AREAS WITHIN THE PROJECT SITE SUCH AS TEMPORARY ACCESS ROADS, STOCKPILE AREAS, STAGING AREAS, AND SURPLUS DISPOSAL AREAS TO ORIGINAL OR IMPROVED CONDITION.



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DESCRIPTION	DATE	BY
ADDED ARMOR TO SOUTH BANK DOWNSTREAM OF DAM	04/21/2025	EE
UPDATED BASED ON AS BUILT UTILITY PLANS FOR DUCT BANK	03/22/2026	EE

SITE PLAN - RESTORATION

CROSS BROTHERS DAM REMOVAL

DOG RIVER
NORTHFIELD, VT

DESIGNED: EE
DRAWN: EE
CHECKED: RS

SCALE: 1"=20'

DATE: **DECEMBER 15, 2025**

PROJECT NO: 146.300263.00001


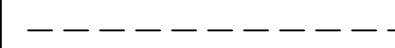





SHEET NO: 6 OF 14

SP-3

SHEET NAME

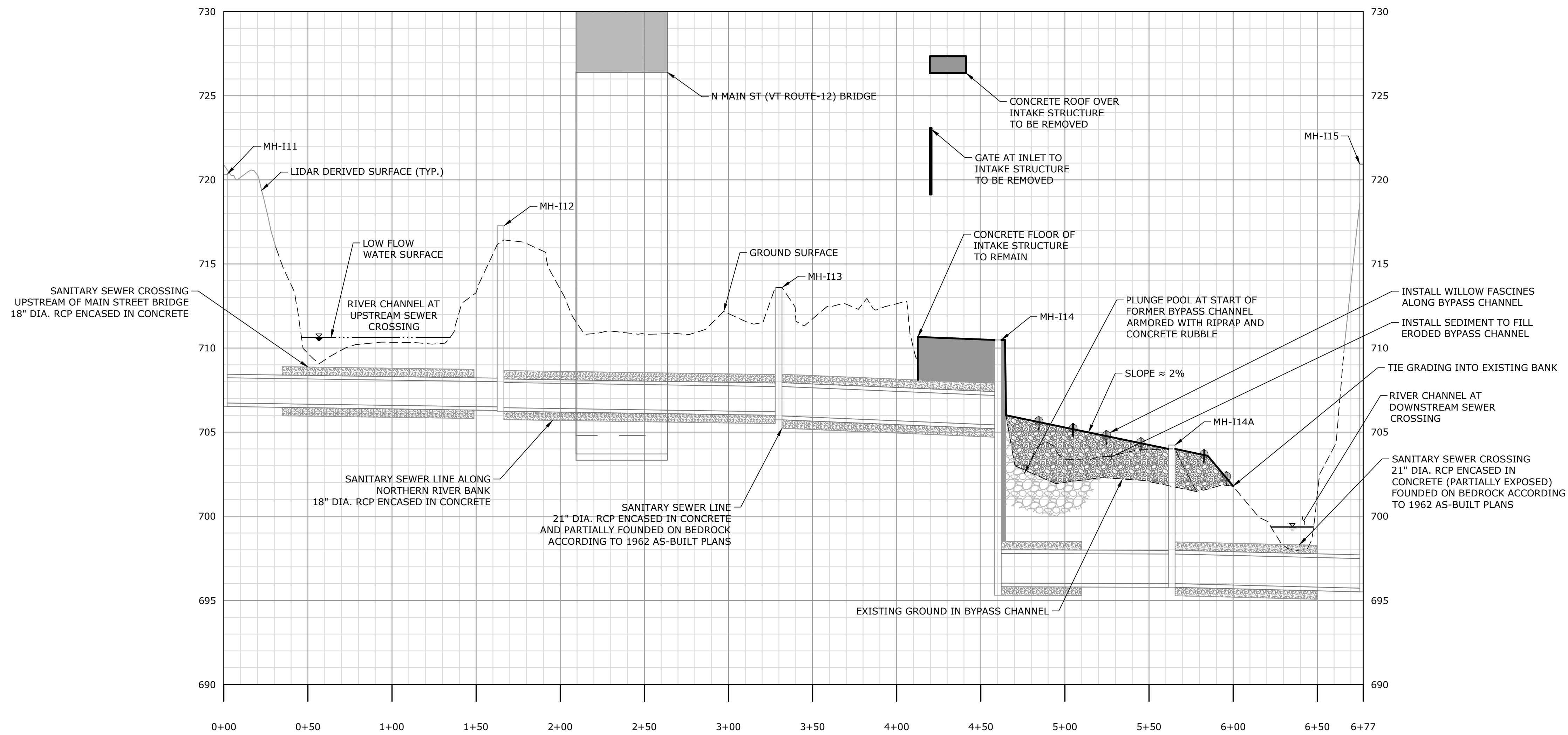
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LEGEND

-  PROPOSED GRADE
-  EXISTING GRADE
-  SANITARY SEWER LINE
-  CONCRETE SEWER ENCASEMENT
-  CONCRETE DAM STRUCTURE
-  PROPOSED STONE ARMOR
-  SEDIMENT REUSE



DOG RIVER - PLAN VIEW
SCALE: 1" = 40'



SANITARY SEWER - PROFILE VIEW
SCALE: 1" = 40' (H); 1" = 4' (V)



DESCRIPTION	DATE	BY
UPDATED BASED ON AS-BUILT UTILITY PLANS FOR DUCT BANK	03/23/2026	EE

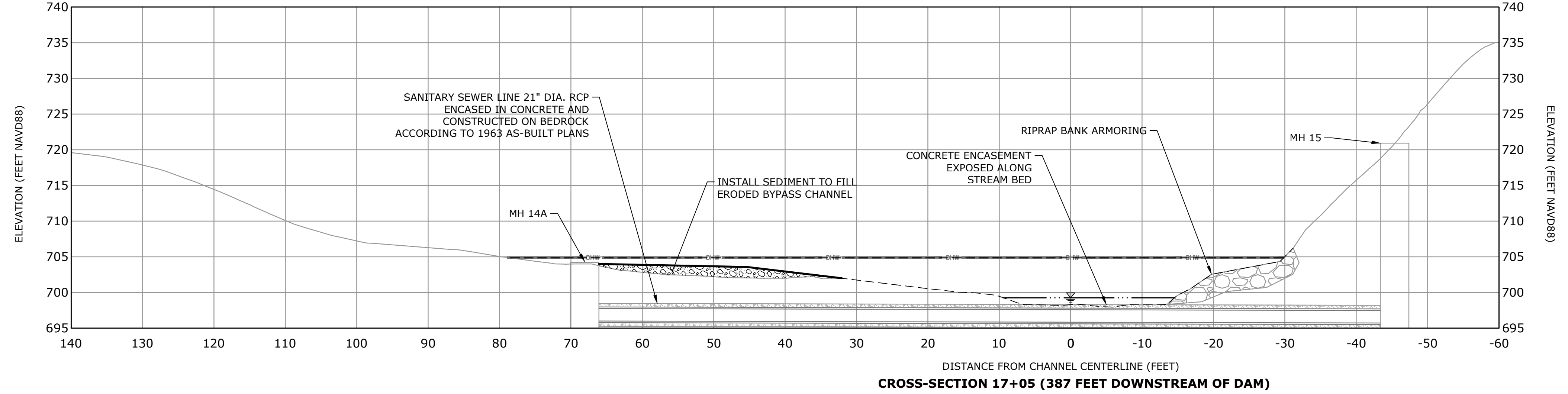
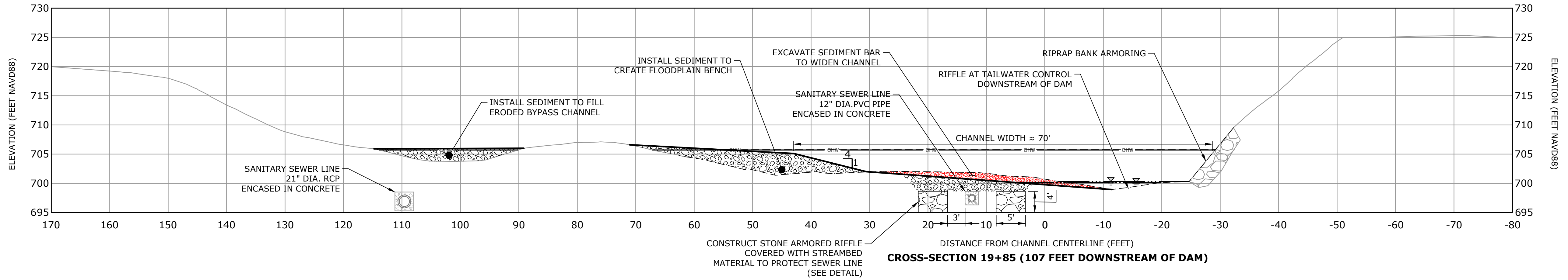
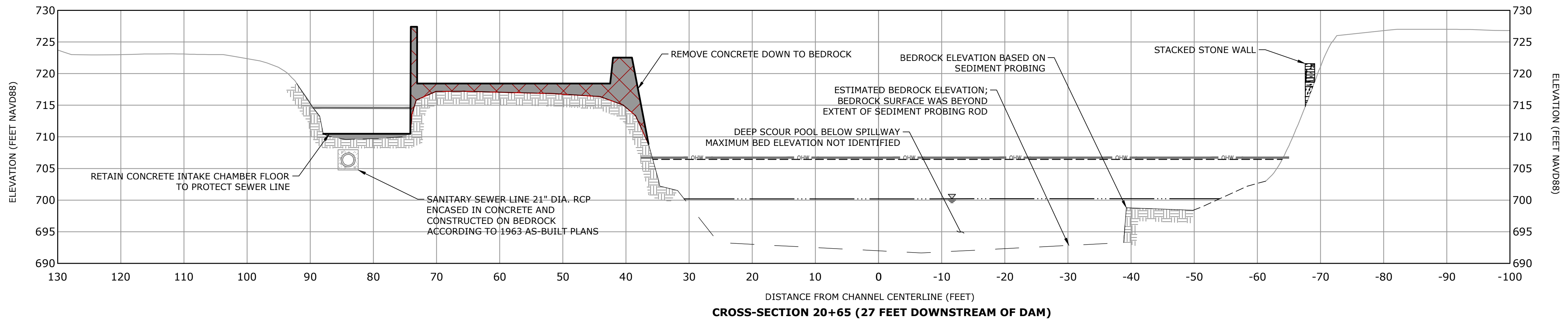
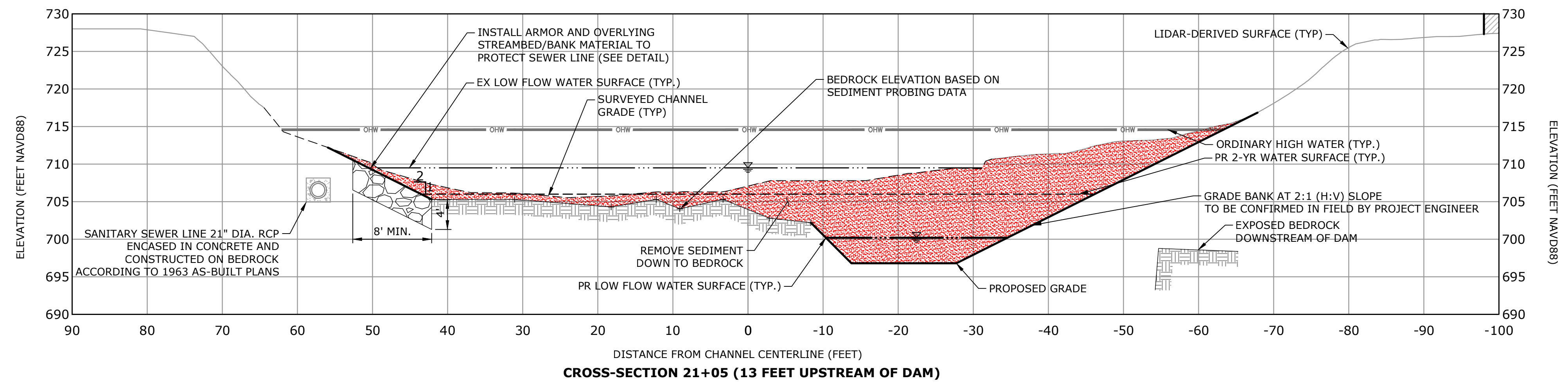
STRUCTURE - SANITARY SEWER LINE
CROSS BROTHERS DAM REMOVAL
 DOG RIVER
 NORTHFIELD, VT
FINAL DESIGN

EE	EE	RS
DESIGNED	DRAWN	CHECKED
SCALE		
DECEMBER 15, 2025		
DATE		
146.300263.00001		
PROJECT NO.		
8 OF 14		
SHEET NO.		
ST-1		
SHEET NAME		

- NOTE:**
 1) ALL SECTIONS VIEWED AS LOOKING DOWNSTREAM.
 2) PROPOSED GRADE AS PRESENTED ON THIS PLAN INDICATE FINAL GRADE AFTER TOPSOIL, ROCKS, AND OTHER PROPOSED STRUCTURES AND FINISHED TREATMENTS ARE COMPLETED.

LEGEND

- 2023 LIDAR SURFACE
- - - EXISTING GRADE FROM SURVEY
- PROPOSED GRADE
- [Pattern] CONCRETE WALLS
- [Pattern] BEDROCK SURFACE
- [Pattern] CONCRETE REMOVAL
- [Pattern] SEDIMENT REUSE
- [Pattern] SEDIMENT REMOVAL
- [Pattern] CONCRETE DAM STRUCTURE
- [Pattern] STACKED STONE WALL
- [Pattern] PROPOSED STONE ARMORING
- [Pattern] BUILDINGS
- + SEDIMENT PROBING POINT - REFUSAL AT BEDROCK

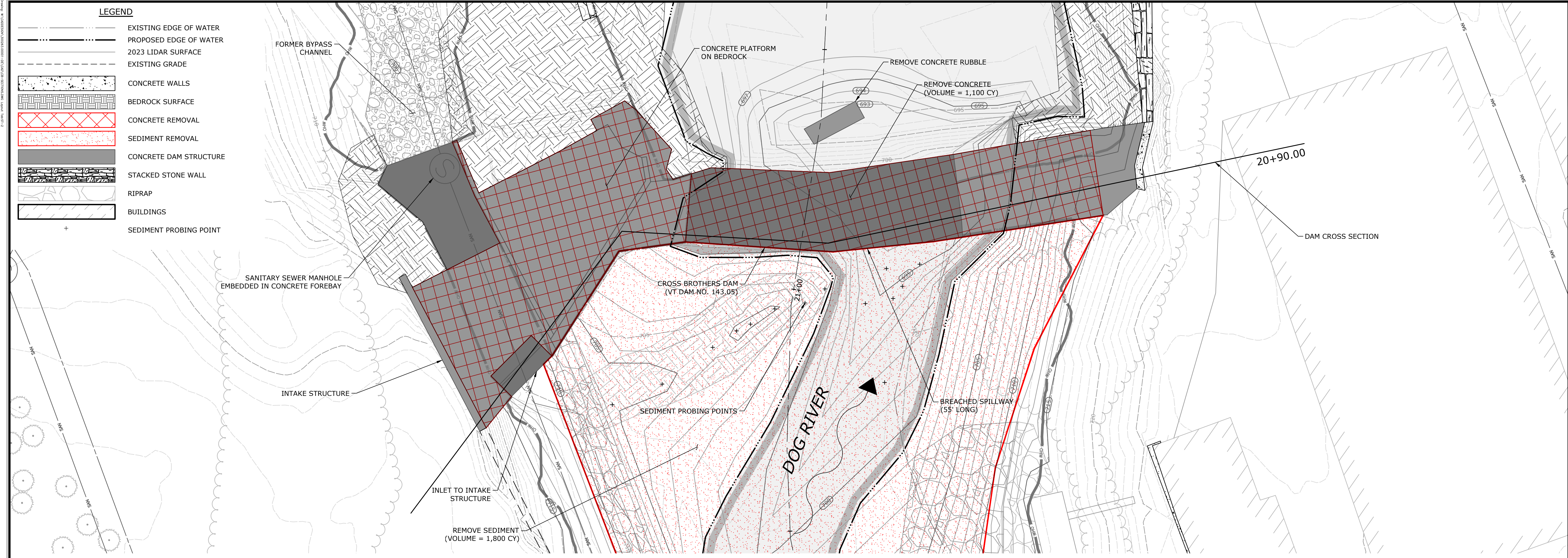


DESCRIPTION	DATE	BY

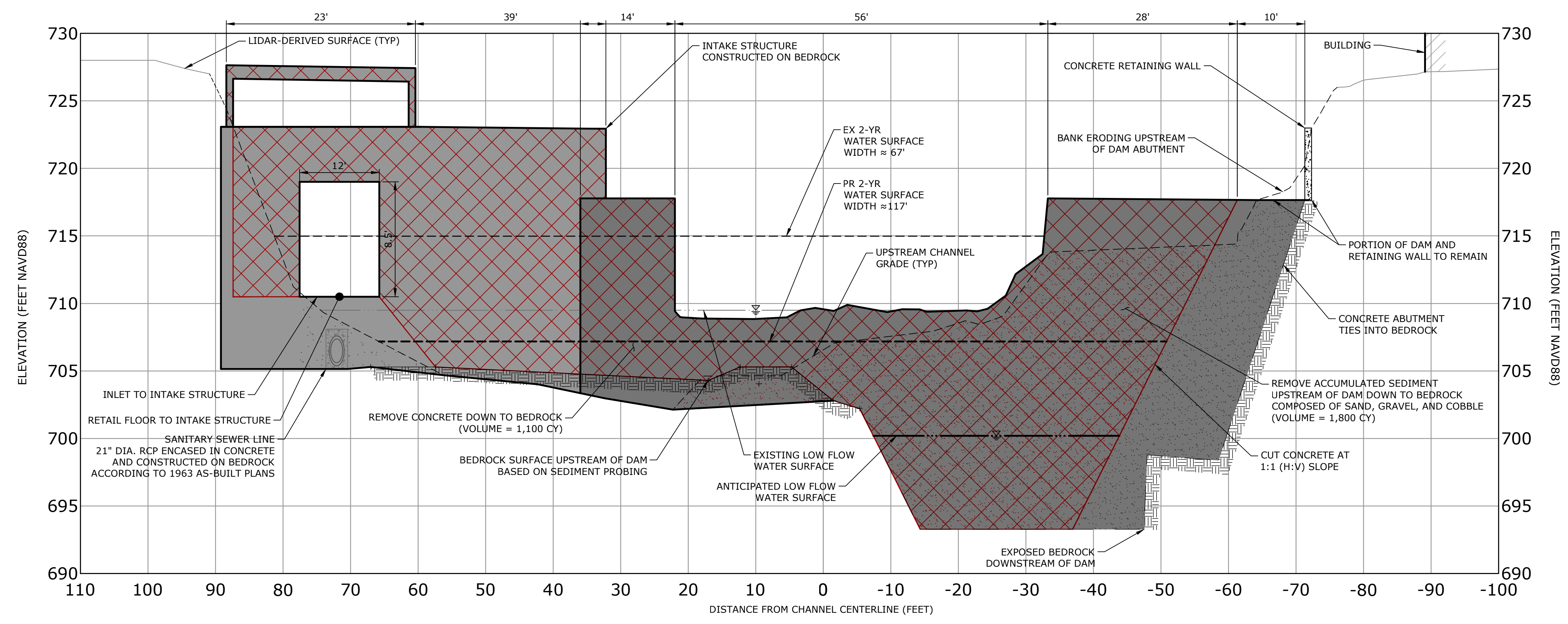
FINAL DESIGN

RIVER CROSS SECTIONS
 CROSS BROTHERS DAM REMOVAL
 DOG RIVER
 NORTHFIELD, VT

EE	EE	RR
DESIGNED	DRAWN	CHECKED
SCALE: 1"=10'		
DATE: DECEMBER 15, 2025		
PROJECT NO.: 146.300263.00001		
SHEET NO.: 10 OF 14		
SHEET NAME: XS-2		



DAM PLAN
SCALE: 1" = 10'



DAM ELEVATION
SCALE: 1" = 10' (H); 1" = 5' (V)

LEGEND

- EXISTING EDGE OF WATER
- - - - PROPOSED EDGE OF WATER
- 2023 LIDAR SURFACE
- EXISTING GRADE
- [Pattern] CONCRETE WALLS
- [Pattern] BEDROCK SURFACE
- [Pattern] CONCRETE REMOVAL
- [Pattern] SEDIMENT REMOVAL
- [Pattern] CONCRETE DAM STRUCTURE
- [Pattern] STACKED STONE WALL
- [Pattern] RIPRAP
- [Pattern] BUILDINGS
- + SEDIMENT PROBING POINT

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DESCRIPTION	DATE	BY

STRUCTURE - REMOVALS
CROSS BROTHERS DAM REMOVAL
DOG RIVER
NORTHFIELD, VT

FINAL DESIGN

EE	EE	RS
DESIGNED	DRAWN	CHECKED
AS NOTED		
DECEMBER 15, 2025		
DATE		
146.300263.00001		
PROJECT NO.		
11 OF 14		
SHEET NO.		
ST-2		
SHEET NAME		

CONSTRUCTION NOTES:

1. PRIOR TO COMMENCEMENT OF WORK, A PRE-CONSTRUCTION MEETING SHALL BE HELD WITH REPRESENTATIVES OF THE TOWN OF NORTHFIELD, PROJECT ENGINEER, AND CONTRACTOR.
2. THE PROPOSED CONSTRUCTION SEQUENCE IS PROVIDED AS A RECOMMENDED APPROACH. THE CONTRACTOR IS RESPONSIBLE FOR SUBMITTING A PROPOSED CONSTRUCTION SEQUENCE TO THE PROJECT ENGINEER FOR APPROVAL PRIOR TO THE START OF CONSTRUCTION.
3. SIGNIFICANT CHANGES TO THE CONSTRUCTION SEQUENCE OR PROJECT LAYOUT OR DESIGN WILL REQUIRE NOTIFICATION AND APPROVAL BY PRIOR TO IMPLEMENTATION.

CONSTRUCTION SEQUENCE NOTES:

THIS PROPOSED DAM REMOVAL SEQUENCE IS PROVIDED AS A RECOMMENDED APPROACH. THE CONTRACTOR IS RESPONSIBLE FOR SUBMITTING A PROPOSED SEQUENCE TO THE PROJECT ENGINEER FOR APPROVAL PRIOR TO THE START OF CONSTRUCTION.

A STEP A - PRE-CONSTRUCTION ACTIVITIES:

1. SUBMIT A SEDIMENT AND EROSION CONTROL PLAN, CONSTRUCTION SEQUENCE, AND WATER CONTROL PLAN TO THE PROJECT ENGINEER FOR REVIEW SEVEN (7) DAYS PRIOR TO INITIATION OF CONSTRUCTION.
2. OBTAIN ANY NECESSARY WORK PERMITS AND SUBMIT SCHEDULES, PLANS, AND PRODUCT INFORMATION, INCLUDING THE EMERGENCY OPERATION PLAN TO THE PROJECT ENGINEER FOR REVIEW SEVEN (7) DAYS PRIOR TO INITIATION OF CONSTRUCTION.
3. CONTRACTOR SHALL PARTICIPATE IN A PRE-CONSTRUCTION SITE WALK WITH THE PROJECT ENGINEER AND OTHERS TO REVIEW ENVIRONMENTAL PERMIT REQUIREMENTS, CONTRACT PROVISIONS, PROJECT LIMITS, AND CONSTRUCTION DETAILS.

B STEP B - CONSTRUCTION SETUP ACTIVITIES:

1. INSTALL CONSTRUCTION WARNING SIGNS AND SAFETY FENCING. INITIATE TRAFFIC CONTROL, AS NEEDED.
2. INSTALL TRAFFIC BARRIERS AND TEMPORARY CONSTRUCTION FENCE AT CONSTRUCTION ENTRANCES TO PARTITION CONSTRUCTION ACTIVITIES FROM PEDESTRIAN AND VEHICLE TRAFFIC.
3. STAKE OUT LIMITS OF WORK AND INSTALL SEDIMENT AND EROSION CONTROLS, SAFETY FENCING, TEMPORARY CONSTRUCTION ACCESS, STAGING AND STORAGE AREAS, ALL TO BE REVIEWED BY PROJECT ENGINEER.
4. INSTALL FENCING TO PROTECT SANITARY SEWER LINE AND SENSITIVE AREAS.
5. LOCATED AND MARK OUT SANITARY SEWER LINE AND DUCT BANK. INSTALL STEEL PLATES WHERE CONSTRUCTION VEHICLES CROSS SEWER LINE AND DUCT BANK.
6. WAIT FOR LOW FLOW TO BEGIN IN-CHANNEL WORK.

C STEP C - DRAIN IMPOUNDMENT:

1. REMOVE SEDIMENT AND DEBRIS FROM LEVEL OUTLET TO DIVERT FLOW FROM SPILLWAY AND LOWER UPSTREAM WATER LEVEL.
2. IF FLOWS EXCEED CAPACITY OF LOW FLOW OUTLET, NOTCH SPILLWAY CREST TO INCREMENTALLY LOWER WATER LEVEL.

D STEP D - SEDIMENT REMOVAL:

1. ALLOW SEDIMENT TO DEWATER PRIOR TO REMOVAL.
2. REMOVE SEDIMENT FROM IMPOUNDMENT. SEE SHEETS PR-1, XS-1, AND XS-2 FOR EXTENT OF SEDIMENT REMOVAL.
3. STOCKPILE BOULDERS EQUAL TO OR LARGER THAN 18-IN. DIAMETER FOR REUSE IN RESTORED CHANNEL.
4. STOCKPILE SAND AND GRAVEL MATERIAL FOR FILLING BYPASS CHANNEL.
5. REMOVAL AND DISPOSE OF ALL UNDESIRABLE MATERIALS.

E STEP E - DAM REMOVAL:

1. INCREMENTALLY LOWER DAM ALTERNATING WITH UPSTREAM SEDIMENT REMOVAL/CHANNEL RESTORATION.
2. REMOVE CONCRETE SPILLWAY AS SHOWN ON SHEETS SP-1 AND ST-2. RETAIN PORTION OF CONCRETE ABUTMENT AND RETAINING WALL ALONG SOUTHERN BANK (SEE ST-2).
3. REMOVE ROOF AND TRAINING WALLS OF INTAKE STRUCTURE. MAINTAIN FLOOR TO PROTECT SEWER LINE.
4. REMOVE ALL CONCRETE FROM BEDROCK ISLAND.

F STEP F - INSTALLATION OF STONE ARMOR:

4. INSTALL STONE ARMOR TO PROTECT SANITARY SEWER LINE ALONG NORTHERN RIVER BANK. INSTALL LIVE STAKE JOINT PLANTINGS ALONG BASE OF STONE ARMOR.
5. INSTALL STONE ARMORED RIFFLE AT SEWER CROSSINGS. TEMPORARILY DIVERT FLOWS AS NEED TO INSTALL STONE.
6. INSTALL STONE ARMOR ALONG RIVERBANK TO PROTECT CONCRETE PATIO AREA UPSTREAM OF DAM AND SOUTHERN BANK AT DOWNSTREAM SEWER CROSSING. REUSED LARGE STONES AND GRANITE BLOCKS FROM EXISTING BANK ARMOR. INSTALL LIVE STAKE JOINT PLANTINGS ALONG BASE OF STONE ARMOR.
7. REUSE SAND AND GRAVEL STREAMBED/BANK MATERIAL TO FILL VOIDS BETWEEN STONES. COVER ARMOR WITH 6-INCH LAYER OF STREAMBED/BANK MATERIAL AND GRUBBINGS.

G STEP G - RESTORE DOWNSTREAM SEDIMENT BAR AND BYPASS CHANNEL:

1. GRADE DOWNSTREAM SEDIMENT BAR TO RESTORE BANKFULL CHANNEL AND FLOOD BENCH.
2. INSTALL SEDIMENT ALONG BYPASS CHANNEL TO REPAIR EROSIONS.
3. INSTALL WILLOW FASCINES ALONG FLOOD BENCH AND BYPASS CHANNEL.
4. ESTABLISH RIVER ACCESS PATH.
5. INSTALL TREE AND SHRUB PLANTINGS.

H STEP H - POST-CONSTRUCTION ACTIVITIES:

1. PERFORM SITE RECOVERY. REMOVE ALL ACCESS ROADS AND CONSTRUCTION ENTRANCES, AND STABILIZE AND RESTORE ALL DISTURBED AREAS. COMPLETE SITE RESTORATION. RESTORE TO ORIGINAL CONDITION, OR AS INDICATED ON THE PLANS.
2. COMPLETE POST-CONSTRUCTION SITE WALK WITH PROJECT ENGINEER.

INVASIVE SPECIES HANDLING NOTES:

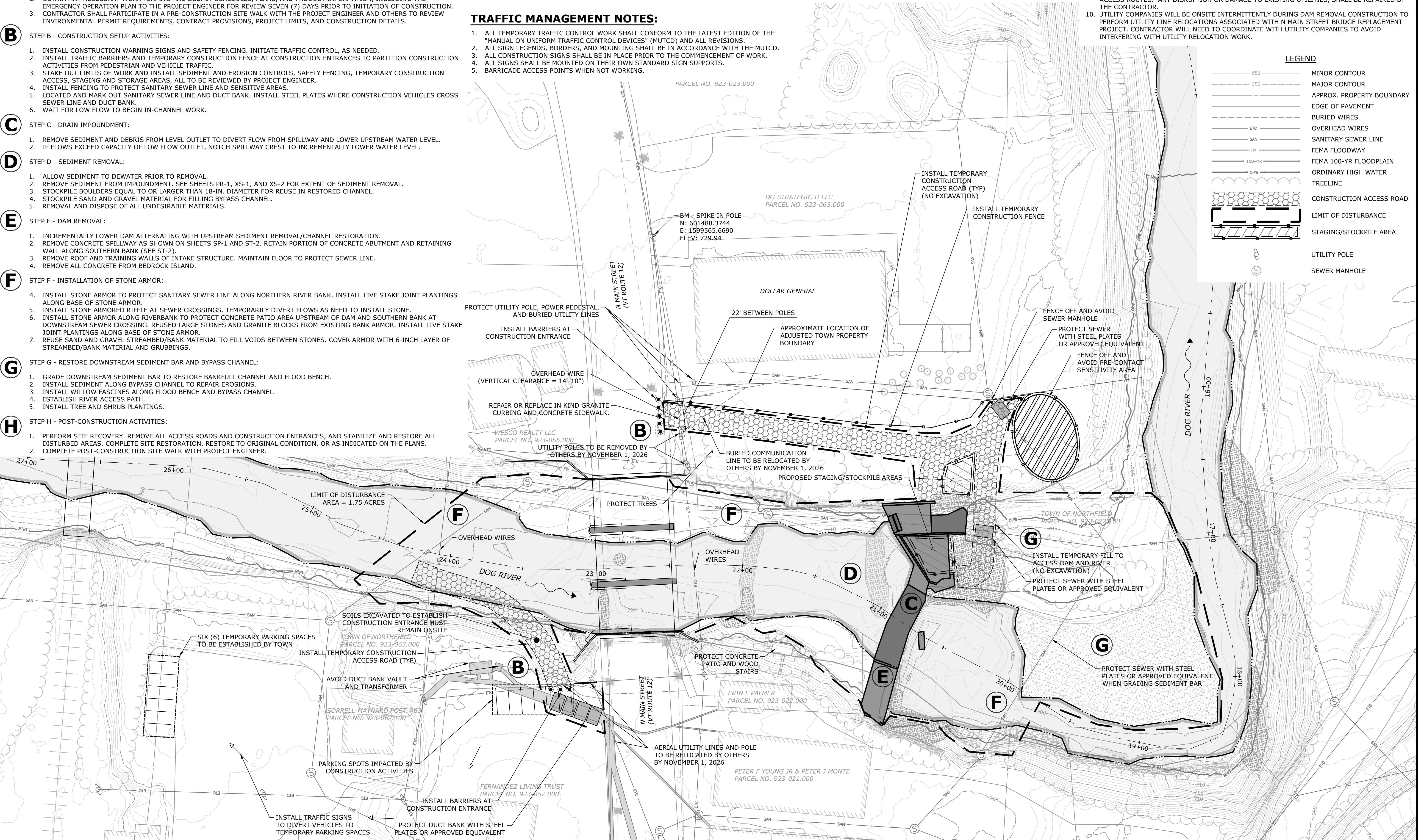
1. LOCATE AND USE STAGING AREAS THAT ARE FREE OF INVASIVE SPECIES TO AVOID SPREADING SEEDS AND OTHER VIABLE PLANT PARTS.
2. PLAN WORK SEQUENCE SO CONSTRUCTION EQUIPMENT IS MOVED FROM AREAS NOT INFESTED BY INVASIVE SPECIES, MOVING INTO AREAS INFESTED WITH INVASIVE SPECIES WHENEVER POSSIBLE.
3. ALL EQUIPMENT, MACHINERY, AND HAND TOOLS USED IN AREAS WHERE INVASIVE PLANTS OCCUR SHOULD BE CLEANED OF ALL VISIBLE SOIL AND PLANT MATERIALS BEFORE LEAVING THE SITE OR MOVING TO AREAS NOT ALREADY INFESTED. CLEANING SHOULD OCCUR WITHIN THE AREA ALREADY INFESTED. ACCEPTABLE CLEANING METHODS INCLUDE: 1) PORTABLE WASH STATION THAT CONTAINS RUNOFF FROM WASHED EQUIPMENT, 2) HIGH PRESSURE AIR, AND BRUSH, BROOM, OR HAND TOOLS USED WITHOUT WATER.
4. EXCAVATED MATERIAL TAKEN FROM SITS THAT CONTAIN INVASIVE PLANTS CANNOT BE USED AWAY FROM THE SITE OF INFESTATION UNTIL ALL VIABLE PLANT MATERIAL IS RENDERED NONVIABLE. EXCAVATED MATERIAL MAY BE REUSED WITHIN THE EXACT LIMITS OF INFESTATION. ANY EXTRA EXCAVATED MATERIAL CONTAINING INVASIVE PLANT MATERIAL MUST BE STOCKPILED ON AN IMPERVIOUS SURFACE UNTIL VIABLE PLANT MATERIAL IS DESTROYED OR DISPOSED OF BY BURYING 5 FEET BELOW GROUND FOR KNOTWEED AND PHRAGMITES OR 3 FEET FOR OTHER SPECIES.
5. SOIL AND OTHER MATERIALS CONTAINING INVASIVE PLANT MATERIAL MUST BE COVERED DURING TRANSPORTATION.
6. INVASIVE SPECIES CAN BE RENDERED NONVIABLE BY THE FOLLOWING METHODS:
 - 6.1. BURNING NOXIOUS WEEDS THAT ARE NOT SEEDING OR FLOWERING IS ACCEPTABLE. PLANT MATERIAL SHOULD BE TAKEN TO A DESIGNATED BURN PILE. MAKE SURE THAT ANY REMAINING ROOTS OR ROOT FRAGMENTS ARE NON-VIABLE. OBTAIN ALL NECESSARY PERMITS BEFORE BURNING.
 - 6.2. BURYING NOXIOUS WEEDS IS ACCEPTABLE. SOME WEEDS SUCH AS KNOTWEED SHOULD BE BURIED AT LEAST 6' DEEP AND IDEALLY WOULD HAVE A BARRIER ON TOP OF THE DISPOSAL SITE.
 - 6.3. CHEMICAL TREATMENT BY A CERTIFIED APPLICATOR WHO FOLLOWS THE LABEL DIRECTIONS IS ACCEPTABLE.
7. INVASIVE SPECIES INCLUDING KNOTWEED WILL BE MONITORED BY OTHERS CONCURRENTLY WITH THE ACOE MONITORING REQUIREMENTS AND ANY OBSERVATIONS AND/OR PROPOSED MANAGEMENT WILL BE INCLUDED IN THE ACOE REPORT.

TRAFFIC MANAGEMENT NOTES:

1. ALL TEMPORARY TRAFFIC CONTROL WORK SHALL CONFORM TO THE LATEST EDITION OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD) AND ALL REVISIONS.
2. ALL SIGN LEGENDS, BORDERS, AND MOUNTING SHALL BE IN ACCORDANCE WITH THE MUTCD.
3. ALL CONSTRUCTION SIGNS SHALL BE IN PLACE PRIOR TO THE COMMENCEMENT OF WORK.
4. ALL SIGNS SHALL BE MOUNTED ON THEIR OWN STANDARD SIGN SUPPORTS.
5. BARRICADE ACCESS POINTS WHEN NOT WORKING.

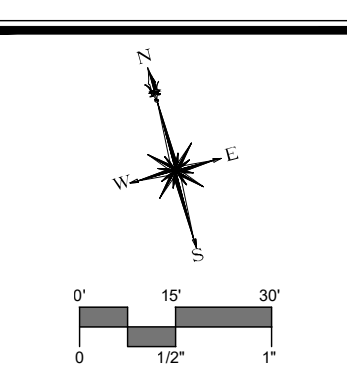
CONSTRUCTION ACCESS NOTES:

1. CONSTRUCTION ACCESS ROUTES PRESENTED ON THIS PLAN ARE FINAL AND MUST BE CONSTRUCTED AS SPECIFIED IN THE DETAILS (DE-1).
2. AVOID SOIL DISTURBANCE WHEN INSTALLING TEMPORARY CONSTRUCTION ACCESS ROADS TO PROTECT BURIED ARCHEOLOGICALLY SENSITIVE STRUCTURES AND UTILITY LINES. USE OF NON-WOVEN GEOTEXTILE FABRIC AND CRUSHED STONE IS REQUIRED (SEE DETAILS).
3. TEMPORARY CONSTRUCTION ACCESS ROADS TO BE RESTORED UPON PROJECT COMPLETION.
4. STOCKPILE AREA TO BE FLAGGED PRIOR TO CONSTRUCTION AND APPROVED BY ENGINEER. ALL STORAGE AND ACCESS ROUTES, PEDESTRIAN FENCES/BARRIERS, WORKING HOURS, AND LIMITS OF CLEARING SHALL BE APPROVED BY TOWN OF NORTHFIELD, LANDOWNERS, AND PROJECT ENGINEER.
5. STOCKPILE AREAS TO BE ENCLOSED BY FILTER FABRIC AND STRAW BALES. SEE DETAILS.
6. PROTECT PARKING LOT SURFACE OF FERNANDEZ PROPERTY. ANY PAVEMENT DAMAGE SHALL BE RESTORED FOLLOWING CONSTRUCTION ACTIVITIES.
7. ESTABLISH FENCE TO PROTECT PRE-CONTACT SENSITIVITY AREA.
8. ALL FEATURES, SUCH AS PAVEMENT, SIGNAGE, WALKWAYS, SIDEWALKS, PRIVATELY OWNED LAWNS, GARDENS, SHRUBS, TREES, FENCING, AND OTHER YARD FEATURES, SHALL BE RESTORED OR REPAIRED AT PROJECT COMPLETION AT THE DIRECTION OF THE OWNER/ENGINEER.
9. UNDERGROUND UTILITIES SHALL BE LOCATED AND AVOIDED WHEN PLANNING THE CONSTRUCTION ACCESS ROUTES. ANY DISRUPTION OR DAMAGE TO EXISTING UTILITIES, SHALL BE REPAIRED BY THE CONTRACTOR.
10. UTILITY COMPANIES WILL BE ONSITE INTERMITTENTLY DURING DAM REMOVAL CONSTRUCTION TO PERFORM UTILITY LINE RELOCATIONS ASSOCIATED WITH N MAIN STREET BRIDGE REPLACEMENT PROJECT. CONTRACTOR WILL NEED TO COORDINATE WITH UTILITY COMPANIES TO AVOID INTERFERING WITH UTILITY RELOCATION WORK.



LEGEND

651	MINOR CONTOUR
650	MAJOR CONTOUR
---	APPROX. PROPERTY BOUNDARY
---	EDGE OF PAVEMENT
---	BURIED WIRES
ETC	OVERHEAD WIRES
SAN	SANITARY SEWER LINE
FW	FEMA FLOODWAY
100-YR	FEMA 100-YR FLOODPLAIN
OHW	ORDINARY HIGH WATER
---	TREELINE
---	CONSTRUCTION ACCESS ROAD
---	LIMIT OF DISTURBANCE
---	STAGING/STOCKPILE AREA
---	UTILITY POLE
---	SEWER MANHOLE

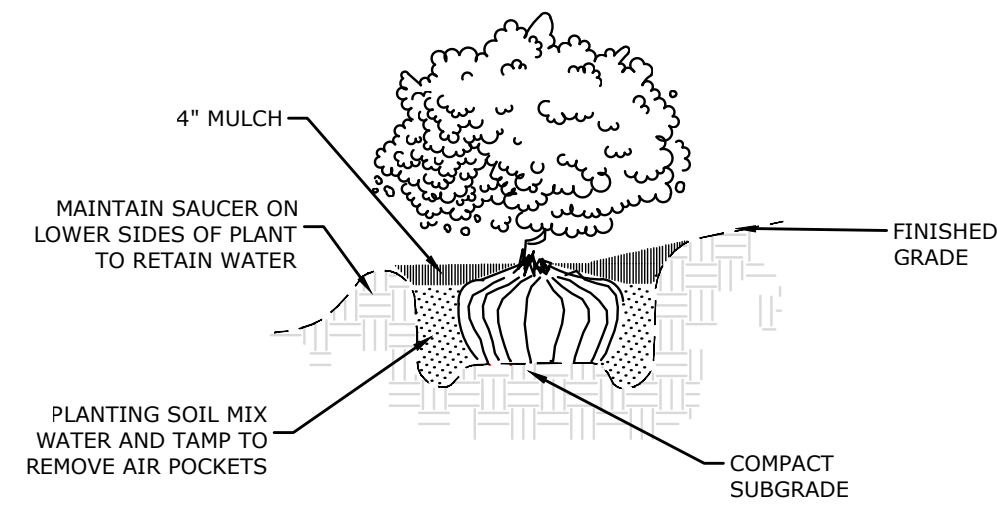


DESCRIPTION	DATE	BY
UPDATED LIMITS OF DISTURBANCE TO INCLUDE ADDITIONAL ARMOR	04/11/2025	EE
UPDATED TO INCLUDE ADDITIONAL CONSTRUCTION ACCESS NOTES	12/15/2025	EE
UPDATED BASED ON AS-BUILT UTILITY PLANS FOR DUCT BANK	03/23/2026	EE

FINAL DESIGN

SITE PLAN - CONSTRUCTION
CROSS BROTHERS DAM REMOVAL
DOG RIVER
NORTHFIELD, VT

EE	EE	RS
DESIGNED	DRAWN	CHECKED
SCALE: 1"=30'		
DATE: DECEMBER 15, 2025		
PROJECT NO: 146.300263.00001		
SHEET NO: 12 OF 14		
CON-1		



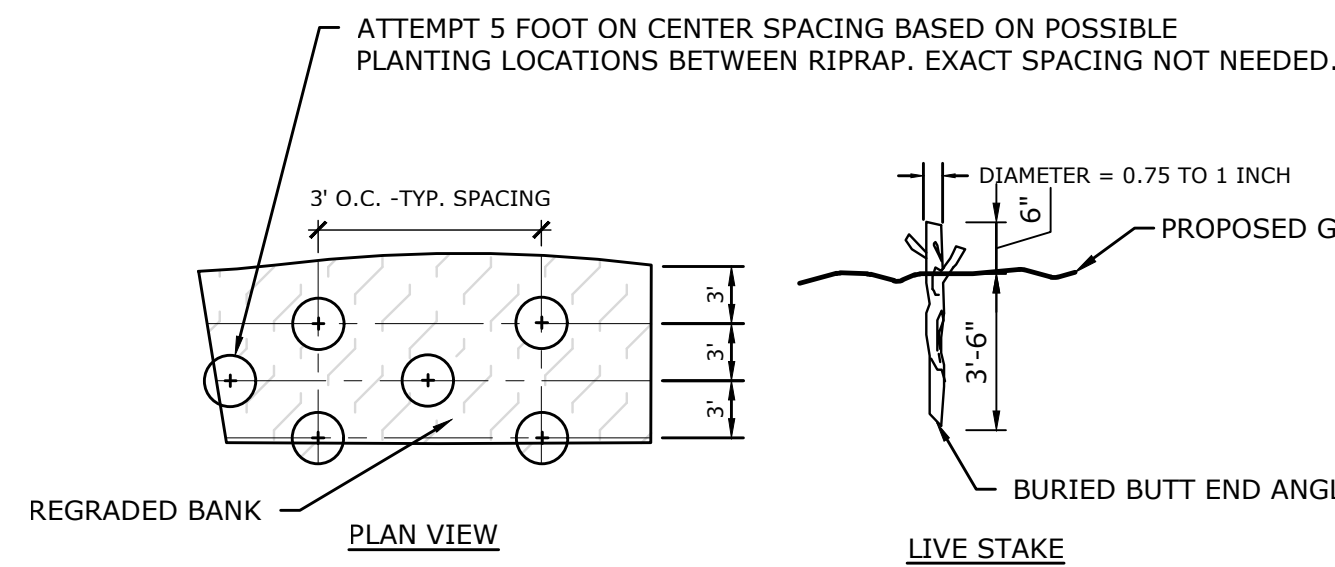
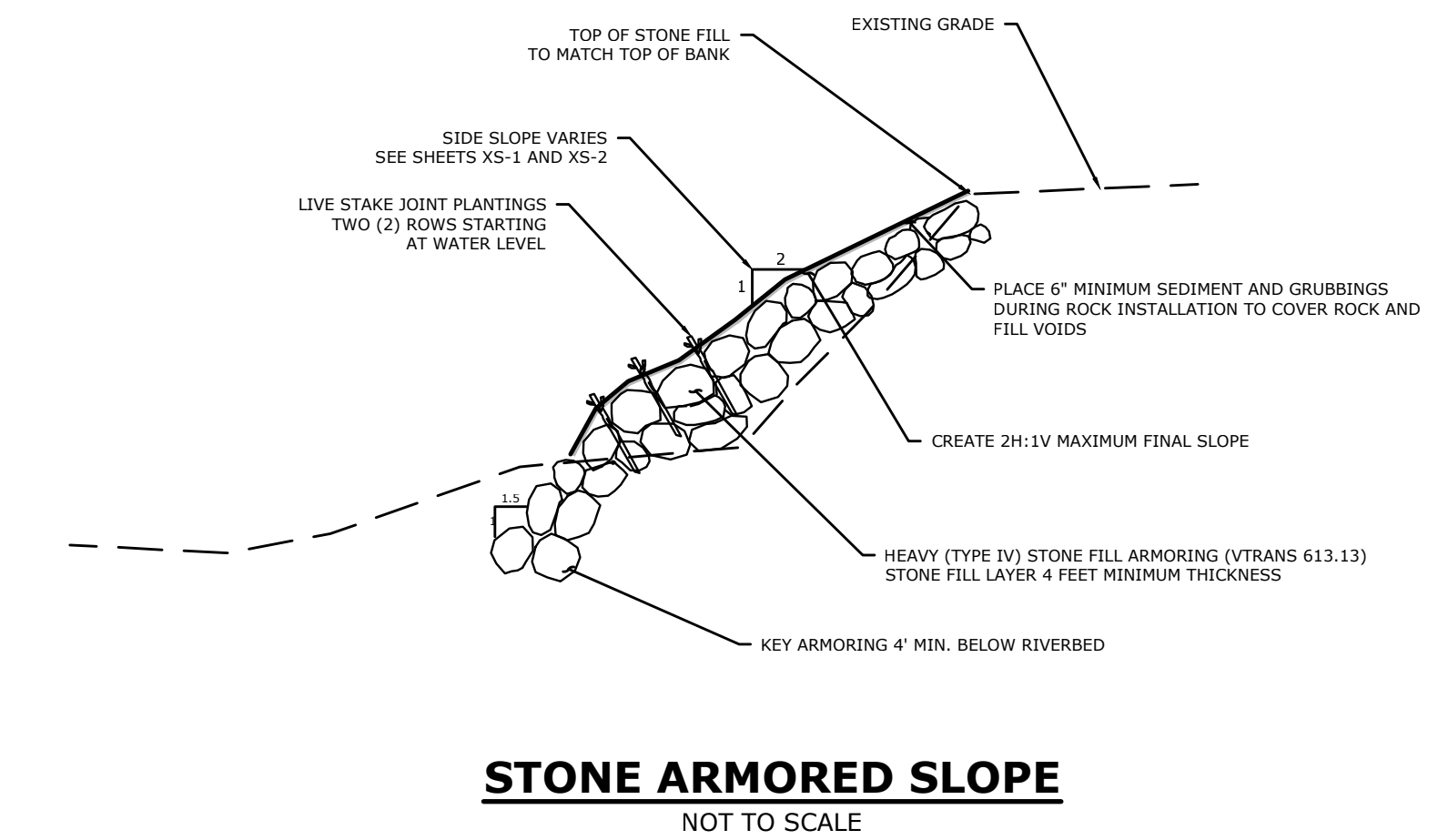
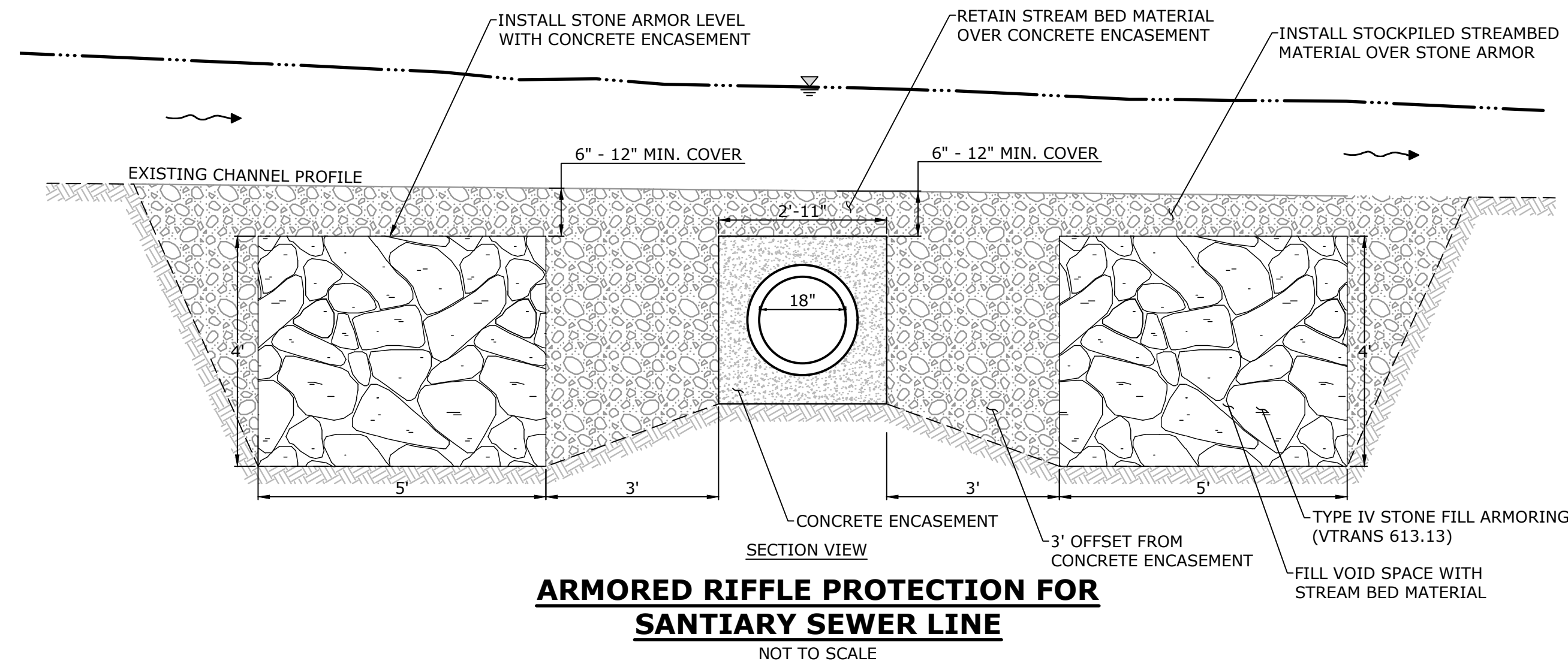
NOTE:
UNLESS OTHERWISE DIRECTED SHREDDED MULCH SHALL BE PLACED TO A LIMIT OF ONE FOOT BEYOND THE CENTER OF THE OUTERMOST SHRUBS IN PLANTING BED.

SHRUB PLANTINGS
NOT TO SCALE

NOTES:
PLANTING OF LIVE SHRUBS SHOULD OCCUR BETWEEN APRIL 1 AND JUNE 15, OR SEPTEMBER 1 AND OCTOBER 31.

GENERAL PLANTING NOTES:

1. TO THE MAXIMUM EXTENT POSSIBLE, OBTAIN SHRUB PLANTINGS FROM LOCAL NURSERY.
2. PLACE 4 INCHES OF TOPSOIL AS SHOWN IN DETAIL.
3. PLANT VARIOUS SPECIES, SPECIFIED IN THE SHRUB PLANTING LIST, THROUGHOUT PROJECT SITE AND PLANTED ACCORDING TO DETAIL.
4. LIGHTLY TAMP TOPSOIL AROUND EACH PLANT, APPLY 2" LAYER OF MULCH, AND SATURATE WITH WATER.
5. PLANT MATERIALS SHOULD BE PLANTED THE DAY THEY ARRIVE ON SITE. PLANTS AND CUTTINGS THAT CANNOT BE PLANTED THE DAY THEY ARRIVE SHALL BE STORED ON SITE UNDER A WET TARP TO PROTECT THEM FROM WIND, DIRECT SUNLIGHT, DRYING OR OTHER DAMAGE. CUTTINGS OR UNROOTED STOCK THAT IS NOT PLANTED WITHIN TWO DAYS AFTER ARRIVAL ON THE SITE SHALL BE DISCARDED UNLESS REFRIGERATED AT 40 TO 50 DEGREES FAHRENHEIT.
6. SPECIES AND SOURCES SHALL BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION.



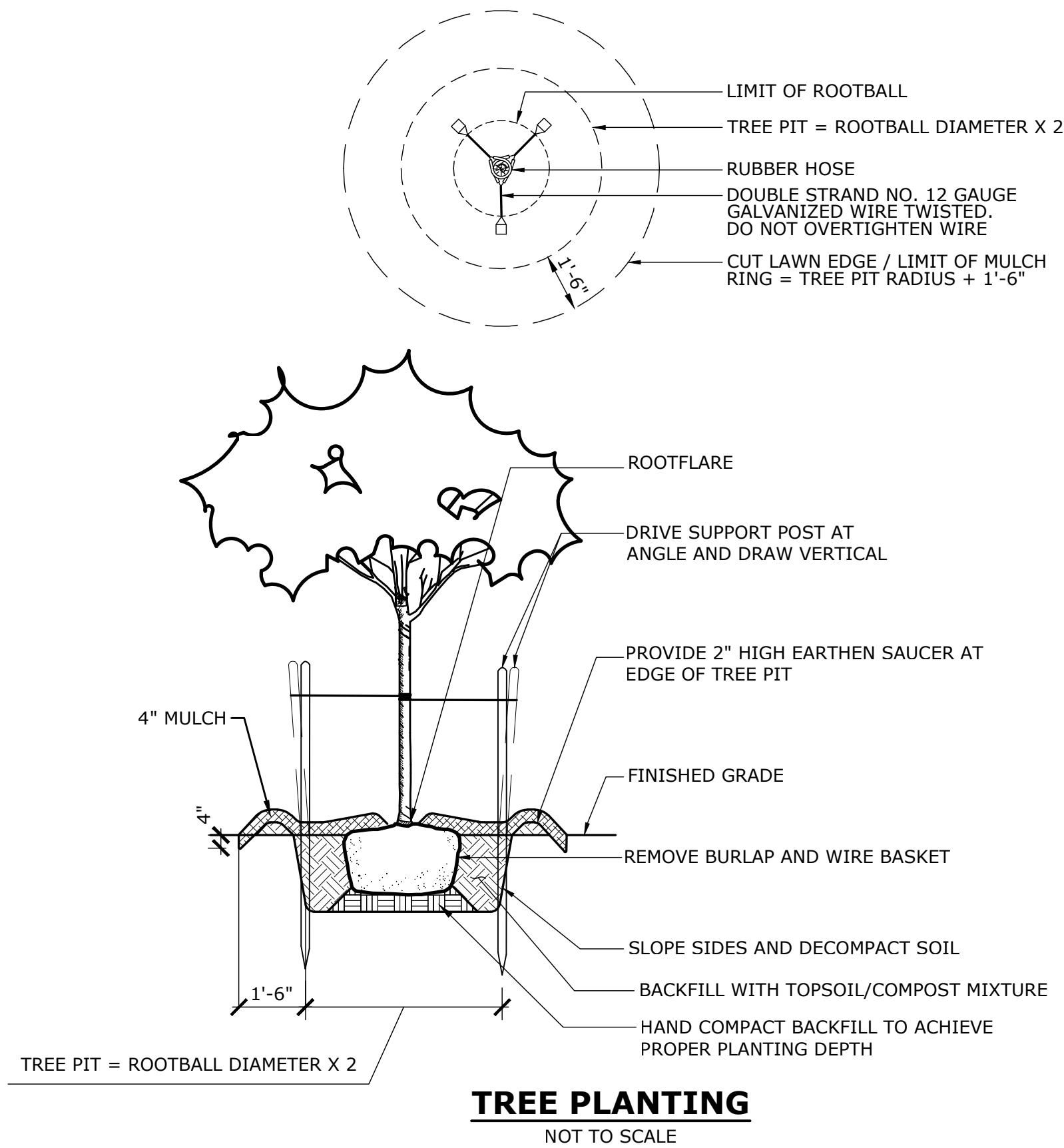
LIVE STAKE JOINT PLANTING NOTES:

1. SHRUB WILLOW AND DOGWOOD BRANCHES MUST BE HARVESTED DORMANT. COLD STORAGE MUST BE MAINTAINED BEFORE PLANTING.
2. INSTALL STONE ARMOR PER PLAN, AND PLACE GRUBBINGS OR TOPSOIL TO FILL VOIDS AND 6 INCHES OF COVER OVER ROCK AS SHOWN IN DETAIL.
3. INSTALLATION SHOULD BE COMPLETED USING THE "STINGER" TOOL, PRYBARS, OR SIMILAR METHOD TO CREATE VOIDS IN THE ROCK.
4. INSTALL 4' LONG LIVE WILLOW AND RED OSIER DOGWOOD STAKES (*SALIX LUCIDA*, *SALIX SERICEA*, *CORNUS SERICEA*, *CORNUS AMOMUM*, OR SIMILAR NATIVE WILLOW AND DOGWOOD SPECIES) SPACED 3' ON CENTER. THESE ARE TO BE INSERTED INTO PREDRILLED PILOT HOLES SLIGHTLY LARGER THAN THE STAKE DIAMETER AND BACKFILLED. STAKES SHOULD BE INSERTED TO 3.5' DEPTH.
5. LIGHTLY TAMP TOPSOIL AROUND EACH STAKE AND SATURATE WITH WATER.
6. SEED BANK WITH RIPARIAN AREA SEED MIX SPECIFIED IN RESTORATION NOTES. THE SLOPE SHOULD BE HAND RAKED TO SCARIFY THE SOIL SURFACE, THEN HAND SEEDED, HYDROMULCHED OR HAND SPREAD WITH A STRAW MULCH, AND RAKED LIGHTLY TO ENSURE SEED TO SOIL CONTACT. SEE SEEDING NOTES BELOW FOR SEED MIX COMPOSITION.
7. PLANT MATERIALS SHOULD BE PLANTED THE DAY THEY ARRIVE ON SITE. PLANTS AND CUTTINGS THAT CANNOT BE PLANTED THE DAY THEY ARRIVE SHALL BE STORED ON SITE UNDER A WET TARP TO PROTECT THEM FROM WIND, DIRECT SUNLIGHT, DRYING OR OTHER DAMAGE. CUTTINGS OR UNROOTED STOCK THAT IS NOT PLANTED WITHIN TWO DAYS AFTER ARRIVAL ON THE SITE SHALL BE DISCARDED UNLESS REFRIGERATED AT 40 TO 50 DEGREES FAHRENHEIT.
8. WILLOW CUTTINGS FOR BIOENGINEERING SHOULD BE SOAKED 24 - 48 HOURS PRIOR TO INSTALLATION.
9. LIVE STAKES SHALL CARRY AN 80% SURVIVAL RATE GUARANTEE FOR A PERIOD OF ONE YEAR FROM THE DATE OF PROJECT COMPLETION.



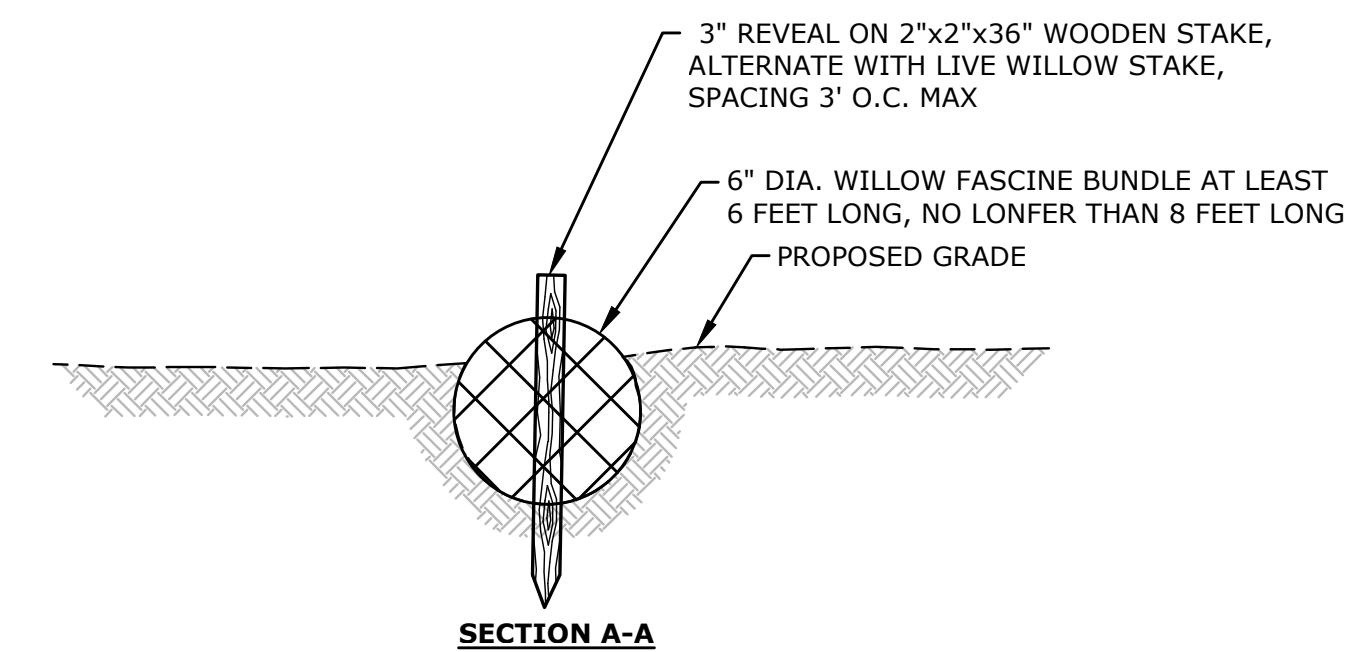
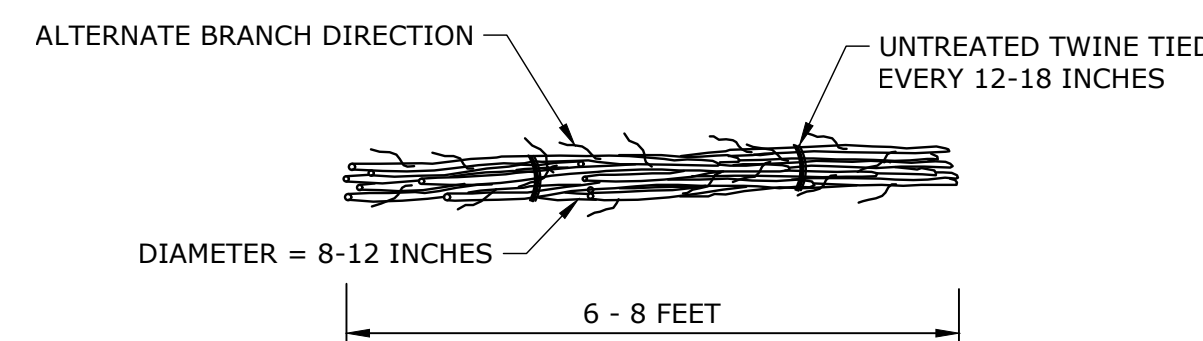
LIVE STAKE PHOTOGRAPH
NOT TO SCALE

LIVE STAKE PLANTINGS
NOT TO SCALE



NOTES:

1. TREE PLANTINGS TO BE INSTALLED THROUGHOUT THE PROPOSED FLOODPLAIN AND UPLAND AREAS AND WHERE SPECIFIED ON SHEET SP-3.
2. SUPPORT POSTS SHALL BE REMOVED BY THE CONTRACTOR ONE YEAR AFTER INSTALLATION.
3. WHERE TREES ARE PLANTED IN COMPACTED SOILS CONTRACTOR TO INSURE PLANT PIT DRAINS 1.5"/HOUR.
4. DO NOT COVER TREE TRUNK WITH MULCH.
5. PLANTING OF TREES SHOULD OCCUR BETWEEN APRIL 1 AND JUNE 15, OR SEPTEMBER 1 AND OCTOBER 31.



INSTALLATION NOTES:

1. SHRUB WILLOW AND DOGWOOD BRANCHES MUST BE HARVESTED DORMANT. COLD STORAGE MUST BE MAINTAINED BEFORE PLANTING.
2. LIVE WILLOW AND DOGWOOD BRANCHES SHALL CONSIST OF *SALIX LUCIDA*, *SALIX SERICEA*, *CORNUS SERICEA*, *CORNUS AMOMUM*, OR SIMILAR NATIVE WILLOW AND DOGWOOD SPECIES.
3. EXCAVATE A 4-INCH TRENCH (1/3 DIA. OF THE FASCINE BUNDLE).
4. PLACE BUNDLE IN THE TRENCH SO THAT THE BOTTOM AND BACK ARE INTACT WITH THE FLOODPLAIN.
5. DRIVE STAKES DOWN ALONG THE CENTER OF THE BUNDLE AT 20-30 DEGREE ANGLE FACING UPHILL.
6. LEAVE 3" OF EACH STAKE EXPOSED ABOVE FASCINE BUNDLE.
7. BACKFILL/COVER STAKED IN FASCINE WITH TOPSOIL/COMPOST MIXTURE AND TAMPED FIRMLY IN. 10-20% OF THE FASCINE SHOULD REMAIN EXPOSED AFTER BACKFILL.
8. VOIDS IN THE FASCINE SHOULD BE FILLED WITH SEDIMENT WITHOUT BEING COMPLETELY BURIED, AND WATERED TO REMOVE AIR SPACE.



SOUTH MAIN STREET
NORTHFIELD, VT 05646
802.882.8335
SLRCONSULTING.COM

DESCRIPTION	DATE	BY

SITE DETAILS
CROSS BROTHERS DAM REMOVAL
DOG RIVER
NORTHFIELD, VT

EE	EE	RS
DESIGNED	DRAWN	CHECKED
SCALE		
DECEMBER 15, 2025		
DATE		
146.300263.00001		
PROJECT NO.		
14 OF 14		
SHEET NO.		
DE-2		
SHEET NAME		

Attachment B

Standard State Contract Provisions

ATTACHMENT C: STANDARD STATE PROVISIONS FOR CONTRACTS AND GRANTS**REVISED OCTOBER 1, 2024**

1. Definitions: For purposes of this Attachment, “Party” shall mean the Contractor, Grantee, or Subrecipient, with whom the State of Vermont is executing this Agreement and consistent with the form of the Agreement. “Agreement” shall mean the specific contract or grant to which this form is attached.

2. Entire Agreement: This Agreement, whether in the form of a contract, State-funded grant, or Federally-funded grant, represents the entire agreement between the parties on the subject matter. All prior agreements, representations, statements, negotiations, and understandings shall have no effect. Where an authorized individual is either required to click-through or otherwise accept, or made subject to, any electronic terms and conditions to use or access any product or service provided hereunder, such terms and conditions are not binding and shall have no force or effect. Further, any terms and conditions of Party’s invoice, acknowledgment, confirmation, or similar document, shall not apply, and any such terms and conditions on any such document are objected to without need of further notice or objection.

3. Governing Law, Jurisdiction and Venue; No Waiver of Jury Trial: This Agreement will be governed by the laws of the State of Vermont without resort to conflict of laws principles. Any action or proceeding brought by either the State or the Party in connection with this Agreement shall be brought and enforced in the Superior Court of the State of Vermont, Civil Division, Washington Unit. The Party irrevocably submits to the jurisdiction of this court for any action or proceeding regarding this Agreement. The Party agrees that it must first exhaust any applicable administrative remedies with respect to any cause of action that it may have against the State regarding its performance under this Agreement. Party agrees that the State shall not be required to submit to binding arbitration or waive its right to a jury trial.

4. Sovereign Immunity: The State reserves all immunities, defenses, rights, or actions arising out of the State’s sovereign status or under the Eleventh Amendment to the United States Constitution. No waiver of the State’s immunities, defenses, rights, or actions shall be implied or otherwise deemed to exist by reason of the State’s entry into this Agreement.

5. No Employee Benefits For Party: The Party understands that the State will not provide any individual retirement benefits, group life insurance, group health and dental insurance, vacation or sick leave, workers compensation or other benefits or services available to State employees, nor will the State withhold any state or Federal taxes except as required under applicable tax laws, which shall be determined in advance of execution of the Agreement. The Party understands that all tax returns required by the Internal Revenue Code and the State of Vermont, including but not limited to income, withholding, sales and use, and rooms and meals, must be filed by the Party, and information as to Agreement income will be provided by the State of Vermont to the Internal Revenue Service and the Vermont Department of Taxes.

6. Independence: The Party will act in an independent capacity and not as officers or employees of the State.

7. Defense and Indemnity:

- A.** The Party shall defend the State and its officers and employees against all third-party claims or suits arising in whole or in part from any act or omission of the Party or of any agent of the Party in connection with the performance of this Agreement. The State shall notify the Party in the event of any such claim or suit, and the Party shall immediately retain counsel and otherwise provide a complete defense against the entire claim or suit. The State retains the right to participate at its own expense in the defense of any claim. The State shall have the right to approve all proposed settlements of such claims or suits.
- B.** After a final judgment or settlement, the Party may request recoupment of specific defense costs and may file suit in Washington Superior Court requesting recoupment. The Party shall be entitled to recoup costs only upon a showing that such costs were entirely unrelated to the defense of any claim arising from an act or omission of the Party in connection with the performance of this Agreement.
- C.** The Party shall indemnify the State and its officers and employees if the State, its officers, or employees become legally obligated to pay any damages or losses arising from any act or omission of the Party or an agent of the Party in connection with the performance of this Agreement.
- D.** Notwithstanding any contrary language anywhere, in no event shall the terms of this Agreement or any document furnished by the Party in connection with its performance under this Agreement obligate the State to (1) defend or indemnify the Party or any third party, or (2) otherwise be liable for the expenses or reimbursement, including attorneys’ fees, collection

costs or other costs of the Party or any third party.

8. Insurance: During the term of this Agreement, Party, at its expense, shall maintain in full force and effect the insurance coverages set forth in the Vermont State Insurance Specification in effect at the time of incorporation of this Attachment C into this Agreement. The terms of the Vermont State Insurance Specification are hereby incorporated by reference into this Attachment C as if fully set forth herein. A copy of the Vermont State Insurance Specification is available at: <https://aoa.vermont.gov/Risk-Claims-COI>.

9. Reliance by the State on Representations: All payments by the State under this Agreement will be made in reliance upon the accuracy of all representations made by the Party in accordance with this Agreement, including but not limited to bills, invoices, progress reports, and other proofs of work.

10. False Claims Act: Any liability to the State under the Vermont False Claims Act (32 V.S.A. § 630 et seq.) shall not be limited notwithstanding any agreement of the State to otherwise limit Party's liability.

11. Whistleblower Protections: The Party shall not discriminate or retaliate against one of its employees or agents for disclosing information concerning a violation of law, fraud, waste, abuse of authority, or acts threatening health or safety, including but not limited to allegations concerning the False Claims Act. Further, the Party shall not require such employees or agents to forego monetary awards as a result of such disclosures, nor should they be required to report misconduct to the Party or its agents prior to reporting to any governmental entity and/or the public.

12. Use and Protection of State Information:

- A. As between the State and Party, "State Data" includes all data received, obtained, or generated by the Party in connection with performance under this Agreement. Party acknowledges that certain State Data to which the Party may have access may contain information that is deemed confidential by the State, or which is otherwise confidential by law, rule, or practice, or otherwise exempt from disclosure under the State of Vermont Access to Public Records Act, 1 V.S.A. § 315 et seq. ("Confidential State Data").
- B. With respect to State Data, Party shall:
 - i. take reasonable precautions for its protection;
 - ii. not rent, sell, publish, share, or otherwise appropriate it; and
 - iii. upon termination of this Agreement for any reason, Party shall dispose of or retain State Data if and to the extent required by this Agreement, law, or regulation, or otherwise requested in writing by the State.
- C. With respect to Confidential State Data, Party shall:
 - i. strictly maintain its confidentiality;
 - ii. not collect, access, use, or disclose it except as necessary to provide services to the State under this Agreement;
 - iii. provide at a minimum the same care to avoid disclosure or unauthorized use as it provides to protect its own similar confidential and proprietary information;
 - iv. implement and maintain administrative, technical, and physical safeguards and controls to protect against any anticipated threats or hazards or unauthorized access or use;
 - v. promptly notify the State of any request or demand by any court, governmental agency or other person asserting a demand or request for Confidential State Data so that the State may seek an appropriate protective order; and
 - vi. upon termination of this Agreement for any reason, and except as necessary to comply with subsection B.iii above in this section, return or destroy all Confidential State Data remaining in its possession or control.
- D. If Party is provided or accesses, creates, collects, processes, receives, stores, or transmits Confidential State Data in any electronic form or media, Party shall utilize:
 - i. industry-standard firewall protection;
 - ii. multi-factor authentication controls;
 - iii. encryption of electronic Confidential State Data while in transit and at rest;
 - iv. measures to ensure that the State Data shall not be altered without the prior written consent of the State;
 - v. measures to protect against destruction, loss, or damage of State Data due to potential environmental hazards, such as fire and water damage;

- vi. training to implement the information security measures; and
 - vii. monitoring of the security of any portions of the Party's systems that are used in the provision of the services against intrusion.
- E. No Confidential State Data received, obtained, or generated by the Party in connection with performance under this Agreement shall be processed, transmitted, stored, or transferred by any means outside the United States, except with the express written permission of the State.
- F. Party shall notify the State within twenty-four hours after becoming aware of any unauthorized destruction, loss, alteration, disclosure of, or access to, any State Data.
- G. State of Vermont Cybersecurity Standard Update: Party confirms that all products and services provided to or for the use of the State under this Agreement shall be in compliance with State of Vermont Cybersecurity Standard Update in effect at the time of incorporation of this Attachment C into this Agreement. The State of Vermont Cybersecurity Standard Update prohibits the use of certain branded products in State information systems or any vendor system, and a copy is available at: <https://digitalservices.vermont.gov/cybersecurity/cybersecurity-standards-and-directives>
- H. In addition to the requirements of this Section 12, Party shall comply with any additional requirements regarding the protection of data that may be included in this Agreement or required by law or regulation.

13. Records Available for Audit: The Party shall maintain all records pertaining to performance under this Agreement. "Records" means any written or recorded information, regardless of physical form or characteristics, which is produced or acquired by the Party in the performance of this Agreement. Records produced or acquired in a machine-readable electronic format shall be maintained in that format. The records described shall be made available at reasonable times during the period of this Agreement and for three years thereafter or for any period required by law for inspection by any authorized representatives of the State or Federal Government. If any litigation, claim, or audit is started before the expiration of the three-year period, the records shall be retained until all litigation, claims, or audit findings involving the records have been resolved.

14. Fair Employment Practices and Americans with Disabilities Act: Party agrees to comply with the requirement of 21 V.S.A. Chapter 5, Subchapter 6, relating to fair employment practices, to the full extent applicable, and shall include this provision in all subcontracts for work performed in Vermont. Party shall also ensure, to the full extent required by the Americans with Disabilities Act of 1990, as amended, that qualified individuals with disabilities receive equitable access to the services, programs, and activities provided by the Party under this Agreement.

15. Offset: The State may offset any sums which the Party owes the State against any sums due the Party under this Agreement; provided, however, that any offset of amounts due the State of Vermont as taxes shall be in accordance with the procedures more specifically provided in 32 V.S.A. § 3113.

16. Taxes Due to the State: Party certifies under the pains and penalties of perjury that, as of the date this Agreement is signed, the Party is in good standing with respect to, or in full compliance with, a plan to pay any and all taxes due the State of Vermont.

17. Taxation of Purchases: All State purchases must be invoiced tax free. An exemption certificate will be furnished upon request with respect to otherwise taxable items.

18. Child Support: (Only applicable if the Party is a natural person, not a corporation or partnership.) Party states that, as of the date this Agreement is signed, Party is not under an obligation to pay child support or is in good standing with respect to or in full compliance with a plan to pay any and all child support payable under a support order. Party makes this statement with regard to support owed to any and all children residing in Vermont. In addition, if the Party is a resident of Vermont, Party makes this statement with regard to support owed to any and all children residing in any other state or territory of the United States.

19. Sub-Agreements: Party shall not assign, subcontract, or subgrant the performance of this Agreement or any portion thereof to any other Party without the prior written approval of the State. Party shall be responsible and liable to the State for all acts or omissions of subcontractors and any other person performing work under this Agreement pursuant to an agreement with Party or any subcontractor.

In the case this Agreement is a contract with a total cost in excess of \$250,000, the Party shall provide to the State a list of all proposed subcontractors and subcontractors' subcontractors, together with the identity of those subcontractors' workers compensation insurance providers, and additional required or requested information, as applicable, in accordance with Section 32 of The Vermont Recovery and Reinvestment Act of 2009 (Act No. 54), as amended by Section 17 of Act No. 142 (2010) and by

Section 6 of Act No. 50 (2011).

Party shall include the following provisions of this Attachment C in all subcontracts for work performed solely for the State of Vermont and subcontracts for work performed in the State of Vermont: Section 10 (“False Claims Act”); Section 11 (“Whistleblower Protections”); Section 12 (“Confidentiality and Protection of State Information”); Section 14 (“Fair Employment Practices and Americans with Disabilities Act”); Section 16 (“Taxes Due the State”); Section 18 (“Child Support”); Section 20 (“No Gifts or Gratuities”); Section 22 (“Certification Regarding Debarment”); Section 30 (“State Facilities”); and Section 32.A (“Certification Regarding Use of State Funds”).

20. No Gifts or Gratuities: Party shall not give title or possession of anything of substantial value (including property, currency, travel, and/or education programs) to any officer or employee of the State during the term of this Agreement.

21. Regulation of Hydrofluorocarbons: Party confirms that all products provided to or for the use of the State under this Agreement shall not contain hydrofluorocarbons, as prohibited under 10 V.S.A. § 586.

22. Certification Regarding Debarment: Party certifies under pains and penalties of perjury that, as of the date that this Agreement is signed, neither Party nor Party’s principals (officers, directors, owners, or partners) are presently debarred, suspended, proposed for debarment, declared ineligible, or excluded from participation in Federal programs, or programs supported in whole or in part by Federal funds. Party further certifies under pains and penalties of perjury that, as of the date that this Agreement is signed, Party is not presently debarred, suspended, nor named on the State’s debarment list at: <https://bgs.vermont.gov/purchasing-contracting/debarment>.

23. Conflict of Interest: Party shall fully disclose, in writing, any conflicts of interest or potential conflicts of interest.

24. Vermont Public Records Act: Party acknowledges and agrees that this Agreement, any and all information obtained by the State from the Party in connection with this Agreement, and any obligations of the State to maintain the confidentiality of information are subject to the State of Vermont Access to Public Records Act, 1 V.S.A. § 315 *et seq.*

25. Force Majeure: Neither the State nor the Party shall be liable to the other for any failure or delay of performance of any obligations under this Agreement to the extent such failure or delay shall have been wholly or principally caused by acts or events beyond its reasonable control rendering performance illegal or impossible (excluding strikes or lockouts) (“Force Majeure”). Where Force Majeure is asserted, the nonperforming party must prove that it made all reasonable efforts to remove, eliminate or minimize such cause of delay or damages, diligently pursued performance of its obligations under this Agreement, substantially fulfilled all non-excused obligations, and timely notified the other party of the likelihood or actual occurrence of an event described in this paragraph.

26. Marketing: Party shall not use the State’s logo or otherwise refer to the State in any publicity materials, information pamphlets, press releases, research reports, advertising, sales promotions, trade shows, or marketing materials or similar communications to third parties except with the prior written consent of the State.

27. Termination:

- A. Non-Appropriation:** If this Agreement extends into more than one fiscal year of the State (July 1 to June 30), and if appropriations are insufficient to support this Agreement, the State may cancel this Agreement at the end of the fiscal year, or otherwise upon the expiration of existing appropriation authority. In the case that this Agreement is funded in whole or in part by Federal funds, and in the event Federal funds become unavailable or reduced, the State may suspend or cancel this Agreement immediately, and the State shall have no obligation to pay Party from State revenues.
- B. Termination for Cause:** Either party may terminate this Agreement if a party materially breaches its obligations under this Agreement, and such breach is not cured within thirty (30) days after delivery of the non-breaching party’s notice or such longer time as the non-breaching party may specify in the notice.
- C. Termination Assistance:** Upon nearing the end of the final term or termination of this Agreement, without respect to cause, the Party shall take all reasonable and prudent measures to facilitate any transition required by the State. All State property, tangible and intangible, shall be returned to the State upon demand at no additional cost to the State in a format acceptable to the State.

28. Continuity of Performance: In the event of a dispute between the Party and the State, each party will continue to perform its obligations under this Agreement during the resolution of the dispute until this Agreement is terminated in accordance with its terms.

29. No Implied Waiver of Remedies: Either party's delay or failure to exercise any right, power, or remedy under this Agreement shall not impair any such right, power, or remedy, or be construed as a waiver of any such right, power, or remedy. All waivers must be in writing.

30. State Facilities: If the State makes space available to the Party in any State facility during the term of this Agreement for purposes of the Party's performance under this Agreement, the Party shall only use the space in accordance with all policies and procedures governing access to, and use of, State facilities, which shall be made available upon request. State facilities will be made available to Party on an "AS IS, WHERE IS" basis, with no warranties whatsoever.

31. Requirements Pertaining Only to Federal Grants and Subrecipient Agreements: If this Agreement is a grant that is funded in whole or in part by Federal funds:

- A. Requirement to Have a Single Audit:** The Subrecipient will complete the Subrecipient Annual Report annually within 45 days after its fiscal year end, informing the State of Vermont whether or not a Single Audit is required for the prior fiscal year. If a Single Audit is required, the Subrecipient will submit a copy of the audit report to the Federal Audit Clearinghouse within nine months. If a single audit is not required, only the Subrecipient Annual Report is required. A Single Audit is required if the subrecipient expends \$1,000,000 or more in Federal assistance during its fiscal year and must be conducted in accordance with 2 CFR Chapter I, Chapter II, Part 200, Subpart F. The Subrecipient Annual Report is required to be submitted within 45 days, whether or not a Single Audit is required.
- B. Internal Controls:** In accordance with 2 CFR Part II, §200.303, the Party must establish and maintain effective internal control over the Federal award to provide reasonable assurance that the Party is managing the Federal award in compliance with Federal statutes, regulations, and the terms and conditions of the award. These internal controls should be in compliance with guidance in "Standards for Internal Control in the Federal Government" issued by the Comptroller General of the United States and the "Internal Control Integrated Framework" issued by the Committee of Sponsoring Organizations of the Treadway Commission.
- C. Mandatory Disclosures:** In accordance with 2 CFR Part II, §200.113, Party must disclose, in a timely manner, in writing to the State, all violations of Federal criminal law involving fraud, bribery, or gratuity violations potentially affecting the Federal award. Failure to make required disclosures may result in the imposition of sanctions which may include disallowance of costs incurred, withholding of payments, termination of the Agreement, suspension/debarment, etc.

32. Requirements Pertaining Only to State-Funded Grants:

- A. Certification Regarding Use of State Funds:** If Party is an employer and this Agreement is a State-funded grant in excess of \$1,000, Party certifies that none of these State funds will be used to interfere with or restrain the exercise of Party's employee's rights with respect to unionization.
- B. Good Standing Certification (Act 154 of 2016):** If this Agreement is a State-funded grant, Party hereby represents: (i) that it has signed and provided to the State the form prescribed by the Secretary of Administration for purposes of certifying that it is in good standing (as provided in Section 13(a)(2) of Act 154) with the Agency of Natural Resources and the Agency of Agriculture, Food and Markets, or otherwise explaining the circumstances surrounding the inability to so certify; and (ii) that it will comply with the requirements stated therein.

(End of Standard Provisions)

Attachment C

US Army Corps of Engineers Programmatic General Permit



DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS
NEW ENGLAND DISTRICT
696 VIRGINIA ROAD
CONCORD MASSACHUSETTS 01742-2751

February 20, 2026

Regulatory Division
New Hampshire & Vermont Section
File Number: NAE-2020-02661

Mr. Jeff Schultz
Town of Northfield
51 South Main Street
Northfield, Vermont 05663
Via Email: jschulz@northfield.vt.us

Dear Mr. Schultz:

This letter is in response to the application you submitted to the U.S. Army Corps of Engineers (USACE), New England District for a Department of the Army general permit verification. We have assigned this project file number NAE-2020-02661, which you should reference in all correspondence with this office.

A review of the information provided indicates the proposed work includes the discharge of dredged or fill material in up to 58,690 square feet (1.35 acres) of the Dog River in conjunction with the removal of the Cross Brothers Dam off North Main Street in Northfield, Vermont. The work will involve removal of 2,150 cubic yards of accumulated sediment from up to 15,520 square foot area upstream of the dam and up to 6,230 square foot area below the dam. Up to 11,000 square feet of river bottom below the ordinary high water mark (OHWM) will be permanently impacted by the dam removal, stone armor to protect existing sewer lines, patio area, bank stabilization above and below the dam, and filling of bypass channel. The work will result in the temporary impact of up to 13,070 square feet of waterway below the OHWM, including 1,670 square feet of fill for the construction of access roads upstream and downstream of the dam. The work is shown on the enclosed plans, on fourteen sheets, titled "CROSS BROTHERS DAM REMOVAL", and all dated "APRIL 7, 2025".

Based on the information you have provided, we verify that the activity is authorized under General Permits 10 of the December 6, 2022, federal permit known as the Vermont General Permits (GPs). If the extent of the project area and/or nature of the authorized impacts to waters are modified, a revised application must be submitted to this office for written approval before work is initiated. You can find a copy of these permits at: <https://www.nae.usace.army.mil/Missions/Regulatory/State-General-Permits/>

Any deviation from the terms and conditions of the permit, or your submitted plans, may subject you to the enforcement provisions of our regulations. Therefore, in the event changes to this project are contemplated, it is recommended you coordinate with

this office prior to proceeding with the work. This office must approve any changes before you undertake them. You must perform this work in compliance with the terms and conditions of the GPs listed above, and also in compliance with the following special conditions:

1. The Prototype Programmatic Agreement Among the Federal Emergency Management Agency, the Vermont State Historic Preservation Officer, and the Department of Public Safety Vermont Emergency Management (2024) (VT Statewide PPA), allows for an abbreviated consultation process for this undertaken, provided the Treatment Measures in the entitled letter “Finding of “Adverse Effect” on Historic Properties”, dated “December 22, 2025, are implemented. If you fail to comply with the implementation of the VT Statewide PPA, the U.S. Army Corps of Engineers may determine that you are out of compliance with the conditions of the Department of the Army permit or authorization and suspend the permit or authorization. Suspension may result in modification or revocation of the authorized work.
2. The monarch butterfly (*Danaus plexippus*) is currently proposed for listing under the federal Endangered Species Act. If the authorized work is not completed before the monarch butterfly is uplisted from proposed to threatened, you are required to contact us so that we can initiate Section 7 consultation with the U.S. Fish and Wildlife Service as needed. We will post information regarding the monarch butterfly uplisting and final rule on our website: <https://www.nae.usace.army.mil/Missions/Regulatory>. You can also find monarch butterfly information at <https://www.fws.gov/species/monarch-danaus-plexippus>.
3. All sediments and cut material not used on site shall be disposed of at an upland off-site located off Cemetery Street Road in Northfield (coordinates: 44.15704 N, -72.65880 W).
4. You shall complete and return the enclosed Work-Start Notification Form to this office prior to the anticipated construction start date.
5. You shall complete and return the enclosed Completion Certification Form to this office at least one month following the completion of the authorized work.

This verification is valid until December 6, 2027. You must commence or be under contract to commence the work authorized herein by December 6, 2027 and complete the work by December 6, 2028. If not, you must contact this office to determine the need for further authorization before beginning or continuing the activity. It is recommended that you contact this office before this authorization expires to discuss if permit reissuance is a possibility.

This GP verification and any associated authorizations does not preclude the necessity to obtain any other federal, state, or local permits, licenses, and/or certifications, which may be required.

If you have any questions related to this verification or have issues accessing documents referenced in this letter, please contact Michael Adams, Senior Project Manager at 802-872-2893, or by email at michael.s.adams@usace.army.mil. This agency continually strives to improve our customer service. To better serve you, please complete the Customer Service Survey located at: <https://regulatory.ops.usace.army.mil/customer-service-survey/>.

Sincerely,

A handwritten signature in black ink, appearing to read 'Colin M. Greenan', written in a cursive style.

Colin M. Greenan
Chief, New Hampshire and Vermont Section
Regulatory Division

Enclosures

cc (w/enclosures):

Ms. Victoria Hanley, FEMA, victoria.hanley@fema.dhs.gov

Ms. Rachel Seigel, VT DEC, rachel.seigel@vermont.gov

Mr. Roy Schiff, SLR Consulting, rschiff@slrconsulting.com

Mr. Jeff Schultz, Town of Northfield, jschulz@northfield.vt.us

Work-Start Notification Form

File Number: NAE-2020-02261 State: Vermont County: Washington

**Permittee: Town of Northfield
Date Verification Issued: 2/19/2026
Project Manager: Michael Adams**

At least two weeks prior to commencing the activity authorized by this permit, sign this certification and return it to the following address:

**US ARMY CORPS OF ENGINEERS
New England District
Attn: Michael Adams
11 Lincoln Street, Room 210
Essex Junction, VT 05452
or
michael.s.adams@usace.army.mil
802-872-2893**

Please note that your permitted activity is subject to a compliance inspection by a U. S. Army Corps of Engineers (USACE) representative. Failure to comply with any terms or conditions of this authorization may result in the USACE suspending, modifying or revoking the authorization and/or issuing a Class I administrative penalty, or initiating other appropriate legal action.

The people (e.g. contractor) listed below will do the work, and they understand the permit's conditions and limitations.

Contractor Name/Contractor Firm: _____
Business Address: _____

Contractor Phone and Email: _____

Proposed Construction Dates: Start: _____ **Finish:** _____

Signature of Permittee

Date

<p>U.S. Army Corps of Engineers (USACE)</p> <p>CERTIFICATION OF COMPLIANCE WITH DEPARTMENT OF THE ARMY PERMIT</p> <p>For use of this form, see Section 404 of the Clean Water Act, Section 10 of the Rivers and Harbors Act of 1899, and Section 103 of the Marine Protection, Research, and Sanctuaries Act; the proponent agency is CECW-COR.</p>	<p><i>Form Approved -</i></p> <p><i>OMB No. 0710-0003</i></p> <p><i>Expires 2027-10-31</i></p>	
<p>The Agency Disclosure Notice (ADN)</p> <p>The Public reporting burden for this collection of information, 0710-0003, is estimated to average 10 minutes per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate or burden reduction suggestions to the Department of Defense, Washington Headquarters Services, at whs.mc-alex.esd.mbx.dd-dod-information-collections@mail.mil. Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number.</p>		
<p>PURPOSE: This form is used by recipients of U.S. Army Corps of Engineer Regulatory permits to certify compliance with the permit terms and conditions.</p> <p>Your permitted activity is subject to a compliance inspection by a U.S. Army Corps of Engineers representative. If you fail to comply with this permit, you are subject to permit suspension, modification, or revocation.</p>		
<p>Upon completion of the activity authorized by this permit and any mitigation required by the permit, sign this certification and return it to the U.S. Army Corps of Engineers, New England District, Regulatory Office.</p> <p>The certification can be submitted by email at michael.s.adams@usace.army.mil or by mail at the below address:</p> <p style="text-align: center; margin-left: 100px;"> U.S. Army Corps of Engineers New England District Office Street Address: 11 Lincoln Street City: Essex Junction State: Vermont Zip Code: 05452 </p>		
<p>COMPLETED BY THE CORPS</p>		
<p>Corps Action Number: _____</p> <p>Permit Type: <u>General Permit</u></p> <p>General Permit Number and Name (<i>if applicable</i>): <u>10</u></p> <p>Name of Permittee: _____</p> <p>Project Name: _____</p> <p>Project Location (<i>physical address</i>): _____</p>	<p>NAE-2020-02661</p> <p>_____</p> <p>Town of Northfield</p> <p>Cross Brothers Dam Removal</p> <p>North Main Street, Northfield, VT</p> <p>_____</p>	
<p>PERMITTEE'S CERTIFICATION</p>		
<p>Date Work Started: _____</p> <p>Date Work Completed: _____</p> <p>Enclose photographs showing the completed project (<i>if available</i>).</p> <p>I _____ hereby certify that the work authorized by the above referenced permit has been completed in accordance with all of the permit terms and conditions, and that any required compensatory mitigation has been completed in accordance with the permit conditions.</p>		
<p>Name</p>	<p>Date</p>	<p>Signature</p>

Attachment D

Vermont Dam Order

STATE OF VERMONT

AGENCY OF NATURAL RESOURCES

DEPARTMENT OF ENVIRONMENTAL CONSERVATION

ORDER APPROVING APPLICATION TO ALTER A DAM

10 V.S.A Chapter 43

Applicant:	Town of Northfield
Application Number:	DS2025-2
Dam Name:	Cross Brothers Dam
Dam ID Number:	143.05
Hazard Classification:	LOW Hazard Potential
Waterbody:	Dog River, Winooski River Basin
Town:	Northfield
Project:	Remove Cross Brothers Dam

Note: Please be aware that other VT Agency of Natural Resources (ANR) permits may be needed for your project, and it is your responsibility to secure any other required permits. To help assist in determining other VT ANR permits that might be needed, use VT ANR's Permit Navigator Tool by going to the VT Department of Environmental Conservation website (dec.vermont.gov). Please be aware that your project may require other local, state, or federal permits outside of VT ANR's jurisdiction which are not covered by the VT ANR Permit Navigator Tool. Failure to secure all necessary permits in advance of construction can result in significant impacts to your project's final scope and can take additional processing time

FACTS

On March 24, 2025, an application under 10 V.S.A. Chapter 43 was filed with the Department of Environmental Conservation, Dam Safety Section (Department) by the Town of Northfield for alteration (removal) of a dam known as Cross Brothers Dam, located in Northfield, Vermont. The application was considered complete on April 1, 2025.

On April 10, 2025, a public notice of the application and project was made available to State and local officials along with other interested persons, providing an opportunity to file written comments or request a public informational meeting. The end of the comment period was April 21, 2025. The comment period for this order was shortened from thirty to ten (30 to 10) days per ADDENDUM 2 TO EXECUTIVE ORDER 03-23. No comments were received.

The Department reviewed the documents filed by the applicant and others and finds it has sufficient information to determine that this project will serve the public good and should be approved as provided in 10 V.S.A. §1086.

FINDINGS AND CONCLUSIONS

1. **Jurisdiction:** Cross Brothers Dam is in Northfield, Vermont and is owned by the Town of Northfield (applicant). The proposed project involves the alteration (removal) of a dam that is capable of impounding more than 500,000 cubic feet of water/sediment. The dam or project does not relate to and is not incident to the generation of electric energy for public use or as a part of a public utility system. The Department has jurisdiction over this project pursuant to 10 V.S.A. §1081(a); and the Department's authorization to perform this alteration is necessary under 10 V.S.A. §1082.
2. **Project Description:** The project is the removal of the Cross Brothers Dam, an approximately 23-foot high by 107-foot-long concrete gravity structure that is classified as having a LOW hazard potential. The dam was partially breached in 1973, creating a spillway section roughly 55-foot-wide, about 7.5-foot lower than the original spillway. The remaining dam presents potential navigation, public use hazards, and impedes the natural stream processes. The project will involve removing the spillway down to bedrock, the parapet walls, the roof and walls of the intake structure, the concrete rubble within the downstream scour pool, and all concrete structures on the bedrock island. Approximately 1,100 cubic yards of concrete will be removed along with approximately 1,800 yards of sediment between the dam and the North Main Street (upstream of the dam). Small portions of the dam near the riverbanks will remain in place to protect the existing sewer line and the buildings on the tall slope to the south of the channel. The remaining portions of the dam will not constrict the river or limit sediment transport and will not impound water during the 100-year storm event (or during lessor storms). The completed project will result in restoration of a free-flowing river in this location.
3. **Plans and Specifications:** The project is to be constructed in accordance with plans and specifications entitled Cross Brothers Dam Removal, dated April 7, 2025. The Engineer-

of-Record for the project is Roy Schiff, PE, of SLR International Corporation, 1 South Main Street, Waterbury, Vermont, 05676.

4. **Project Purpose:** The purpose of the project is to remove Cross Brothers Mill Dam, a LOW hazard potential dam and restore the area to a free-flowing stream and more natural condition.

5. **Public Good Determination 10 V.S.A. §1086(a)**

Impact to public safety; The project is the removal of a LOW hazard potential dam which results in a reduction of risk to public safety due to an incident at the dam or dam failure. Based on modeling provided by the applicant, the removal of the dam will result in lower upstream flood water elevations and does not have any adverse flood impacts downstream. The plans entitled Cross Brothers Dam Removal, dated April 7, 2025, are adequate to provide for public safety

1) **The quantity, kind and extent of cultivated agricultural land that may be rendered unfit for use by the project, including both the immediate and long-range agricultural land use impacts;** No cultivated agricultural lands will be rendered unfit for use by the project, including both the immediate and long-range agricultural use impacts.

2) **Impact to scenic and recreational values;** The change to scenic and recreational values will be positive as removing the dam and restoring the flowing channel will allow the area to return to a more natural state and diverse area.

3) **Impact to fish and wildlife;** In accordance with 10 VSA §1084, the Department of Fish & Wildlife investigated the potential effects on fish and wildlife habitats for the proposal to remove Cross Brothers Dam and restore the riverine habitat in this location. Dams and instream impoundments degrade riverine habitats, alter sediment transport, increase water temperatures, and isolate aquatic populations. The permanent removal of this dam and elimination of an artificial impoundment will result in an overall improvement of aquatic habitat.

- Erosion prevention and sediment control measures should be employed to prevent discharge of sediment to State waters.
- To protect the health and population of Vermont's fisheries, the capture and transport of live fish to other waters must not be allowed.
- Downstream flows must not be interrupted.
- Monitor the riparian area of the project yearly during the growing season to ensure success of plantings.

4) **Impact to forests and forest programs;** There will be no adverse impact or change in forests or forest programs from removing the existing dam.

5) **[Repealed, Minimum Flows, see 10, below];**

- 6) **The existing uses of the waters by the public for boating, fishing, swimming and other recreational uses;** The project will enhance existing public uses by restoring the natural flow regime.
- 7) **The creation of any hazard to navigation, fishing, swimming or other public uses;** The project will not create any hazards to navigation, fishing, swimming or other public uses. The project will remove hazards that the dam poses to navigation, and other public uses.
- 8) **The need for cutting clean and removal of all lumber or tree growth from all or part of the flowage area;** The project does not involve the cutting clean and removal of all lumber or all trees in the existing flowage area.
- 9) **The creation of any public benefits;** Removing the dam will create public benefits by the restoration of the original riverine flow pattern and resulting improvements to aquatic habitat and recreational uses. Other public benefits include the elimination of the potential damage threat of a LOW hazard potential dam.
- 10) **Attainment of the Vermont Water Quality Standards;** The project, with the conditions imposed through this Order, will be done in a manner that meets the Vermont Water Quality Standards. The completed project will result in a natural free-flowing riverine system.
- 11) **Impact to any applicable state, regional or municipal plans;** Removing the dam and restoring the area to a more natural state will not have a negative impact on any state or regional plans or municipal plans.
- 12) **Impact to municipal grand lists and revenues;** The project will not impact the value of the property on the municipal list and revenues related thereto.
- 13) **Impact to public safety;** The project is the removal of a LOW hazard potential dam which results in a reduction of risk to public safety due to an incident at the dam or dam failure. The removal of the dam will lower upstream flood water elevations and not increase downstream flooding impacts. Based on modeling provided by the applicant, the removal of the dam will result in lower upstream flood water elevations and does not have any adverse flood impacts downstream. The plans entitled Cross Brothers Dam Removal, dated April 7, 2025, are adequate to provide for public safety.
- 14) **Hydroelectric potential;** Cross Brothers Dam was not related or incident to the generation of electric energy for public use or as part of a public power utility system. There is not significant hydroelectric potential at this site.

The Department concludes that this project satisfies and will serve the public good requirements of 10 V.S.A. §1086.

SPECIAL CONDITIONS

1. The applicant shall notify the Department's Dam Safety Section (Steven Hanna, 802-490-6123) and the Town of Northfield a minimum of **72 hours prior** to commencement of construction and provide the name and telephone number of the contact person for the construction project.
2. **A preconstruction meeting between the applicant or representative, the applicant's engineer or supervising representative, the selected contractor, and the Dam Safety Program shall be held prior to starting construction to review control of water plans, project schedule, and Order Conditions. The Dam Safety Section shall be provided with meeting minutes. In addition, if not already submitted to the Department, proof that the Order has been filed in the land records of the Town of Northfield shall be provided to the Department.**
3. **The Dam Safety Section shall be invited to a final completion meeting. The Dam Safety Section shall be provided with meeting minutes.**
4. The project is to be implemented in accordance with plans and specifications entitled Cross Brothers Dam Removal, dated April 7, 2025. The Engineer of Record for the project is Roy Schiff, PE, of SLR International Corporation, 1 South Main Street, Waterbury, Vermont, 05676.
5. Construction monitoring by the applicant's engineer shall be provided during the dam removal work in the water and at such times as the engineer may consider appropriate.
6. The applicant's engineer monitoring construction shall submit via email on a weekly basis to the Dam Safety Program, a brief summary with project progress, observations and representative photographs that document the work.
7. Any construction problems or unanticipated circumstances encountered during removal work shall be immediately brought to the attention of the Dam Safety Program (Steven Hanna, 802-490-6123).
8. During removal of the dam, inflow shall be passed, and flow shall not be interrupted or otherwise stopped completely. The flow regime shall be run-of-river and allow for free movement of aquatic organisms to upstream reaches once the project is complete.
9. **The removal shall be completed by October 15, 2028**, unless other dates are approved in writing by the Department. The applicant shall notify the Department at least 14 days prior to a deadline if an extension appears necessary.
10. Work in the water, defined as, work requiring water control, flow manipulation, manipulation of water levels, work directly in the water, or work below the normal water level upstream of the dam, shall only occur during the period from June 1 to October 1 of

any year. Requests to work outside of these dates must be made to the Dam Safety Program at least 14 days prior and include the following in a written narrative and plans (if applicable).

- Documentation there is no reasonable alternative and/or the task is an emergency.
 - Updated construction schedule with a list of tasks to be completed outside of the period with their anticipated duration, completion date, and winter shutdown date, if applicable.
 - A discussion of necessary water control measures and how this work will be sequenced to minimize the release of turbid waters.
 - A plan of improved erosion and sediment controls and site stabilization measures to minimize the release of turbid waters, including a plan for the timely containment of sediment discharges should the improved measures fail in any way.
 - A monitoring plan to observe, document, and report ambient and receiving water turbidity.
 - Work in the water before June 1 or after October 1 shall not be performed unless approved in writing by the Department after consultation with the Department of Fish & Wildlife.
11. If requested by the Department, a site visit to observe site conditions and review work requirements shall be held. Work performed during this period may be subject to additional inspection by State personnel and may be subject to immediate work stoppage if Order or extension requirements are not being met.
 12. Work not in the water in upland areas is limited to the period May 1 through October 31 of any year.
 13. The applicant shall ensure that every reasonable precaution is taken to prevent the discharge of petrochemicals and debris into waters of the State. Machinery shall be fueled away from waters of the State and shall be maintained in good mechanical condition in terms of integrity of hoses, seals, and gaskets.
 14. Erosion prevention and sediment control (EPSC) measures shall be employed as necessary to prevent discharge of sediment to State waters. Disturbed soil shall be effectively stabilized by October 1st. Stone check dams or rock filter berms installed to catch sediment shall be cleaned out weekly, before and after storm events, and as required by the applicant's engineer. If elevated turbidity is observed, work shall stop immediately until corrective measures are employed. Post construction remediation measures shall be required if deemed necessary by the Agency.
 15. Any water quality problems shall be immediately brought to the attention of the Dam Safety Section (Steven Hanna, 802-490-6123).
 16. Live fish shall not be captured and transported to other waters in order to protect the health and population of Vermont's fisheries.

17. Debris and excess material associated with the project and operation shall be transported and used or disposed of properly in accordance with State law.
18. Monitor the riparian area of the project during the growing season to ensure success of plantings.

GENERAL CONDITIONS

1. This Order may be appealed to the Environmental Court by an aggrieved person within thirty (30) days from its date (10 V.S.A. §1099).
2. **The applicant shall file this Order with the land records of the Town of Northfield within 10 days of the issuance of this Order. Proof of such a filing shall be submitted to the Department within 10 days of the filing or at the preconstruction meeting, and prior to the start of construction.**
3. Any proposed modifications to the approved plans and specifications shall be submitted in writing to the Department. Such proposed modifications shall not be made unless approved in writing by the Department.
4. Applicant shall engage a professional engineer registered under Title 26 V.S.A. who has experience in the design, investigation, and removal of dams to monitor the construction, alteration or other action authorized by this Order. (10 V.S.A. § 1090). The engineer shall:
 - a. Submit construction status reports with photographs or other reports required by the Special Conditions **weekly** to the Department;
 - b. Submit, **within one month** of completion of the project, record drawings of the completed work to the Department; and
 - c. Certify in writing to the Department that the project has been completed in accordance with the approved plans and specifications and that in the Engineer's opinion the dam has been completely and satisfactorily removed and site stabilized.
5. The project shall not be considered complete and in compliance with this Order until:
 - a. the record drawings, certification, and items required by Conditions 4(a) through (c) have been received and accepted by the Department;
 - b. the Department has inspected and approved the completed project; and
 - c. the Department has given its written acknowledgment that the project has been satisfactorily completed in accordance with this Order. **The written acknowledgement shall be filed with the land records of the Town of Northfield. Proof of the filing shall be provided to the Department.**

6. This Order does not grant exclusive rights or privileges, which would impair any rights possessed by other riparian or littoral owners or the State of Vermont. It does not grant any right, title or easement to or over any land not owned in fee simple by the applicants. Nor does it authorize any violation of Federal, State, or local laws or regulations.
7. Nothing in this Order shall relieve the owner or operator of the authorized dam and impoundment from their legal duties, obligations and liabilities resulting from such ownership or operation.
8. The applicant shall allow the Commissioner of the Department, or a duly authorized representative, at reasonable times and upon presentation of credentials to enter upon and inspect the property and the project to determine compliance with this Order.
9. The terms and conditions of this Order shall run with the land.
10. This Order may be suspended or revoked at any time after reasonable notice and opportunity to be heard upon failure of Applicant to comply with any condition of this Order, applicable rule, or law. Continuing jurisdiction is reserved for these purposes.

ORDER APPROVING APPLICATION

Based on due consideration of the factors that must be considered under the law and with the conditions contained herein, the Department hereby approves the project as applied for and authorization is hereby granted to carry out the proposed project in strict accordance with the approved plans and specifications entitled Cross Brothers Dam Removal, dated April 7, 2025, and the Special and General Conditions that are contained in this Order

Signed this 23rd day of May, 2025

Jason Batchelder , Commissioner
Department of Environmental Conservation

By: 
Eric Blatt, Director of Engineering
Water Investment Division

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Attachment E

Vermont Stream Alteration Permit

**AUTHORIZATION TO CONDUCT
STREAM ALTERATION ACTIVITIES**

Pursuant to Section C.2.2, and C.2.3
of the VT Stream Alteration General Permit



VERMONT DEPARTMENT OF
ENVIRONMENTAL CONSERVATION
**WATERSHED
MANAGEMENT DIVISION**
RIVERS PROGRAM

(Reporting activities requiring Application or Registration)

A. Permitted Project Information:

Project Number: SA-4241 Phone: (802) 485-9822
Applicant Name: Town of Northfield Email: jshulz@northfield.vt.us
Mailing Address: 51 So. Main St., Northfield, VT 05663
Project Location: Dog River, Northfield (44.149291, -72.655289)

B. Findings:

The Secretary of the Vermont Agency of Natural Resources (VT ANR) has determined that:

This permit Authorizes:

- Removal of the Cross Brother Dam along the Dog River, in the town of Northfield.
 - Removal of associated impounded sediment upstream of the dam.
 - Installation of stone armoring to protect sewer line.
 - Restoration of the construction site.
 - Installation of revetment for protection of adjacent improved properties.
1. The proposed activity is eligible for coverage under the VT ANR Stream Alteration General Permit.
 2. The proposed activity will meet the terms and conditions of the General Permit provided:
 - a) The project will be completed as shown on the completed Application Developed by SLR Engineering with a drawn date of 02/27/2025 and adjusted plans dated 04/07/2025.

C. Standard Conditions:

1. The project will not adversely affect public-- safety by increasing flood hazards.
2. The project will not significantly damage fish life or wildlife.
3. The project will not significantly damage the rights of riparian owners.
4. The project will not obstruct the movement of aquatic life indigenous to the waterbody beyond the actual duration of construction.
5. The project is conducted in a manner which minimizes or avoids any discharge of sediment or other pollutants to surface waters in violation of the VT Water Quality Standards.
6. The ANR River Management Engineer is notified by phone or email when construction begins and when the project is complete.
7. **In-stream working dates for all GP activities are from July 1st through October 1st; any in-stream work outside these dates will require consultation with and prior authorization from the River Management Engineer (RME).**
8. **This permit will expire: 10/01/2027**
9. **Additional Conditions:**
 - An onsite preconstruction meeting shall be conducted with the selected contractor and Regional River Management Engineer prior to the start of construction.
 - A water control plan and schedule of instream work is provided to this office no less than 30 days prior to the proposed start of construction.

If there are any changes in the project plan or deviation in construction from the plan, the Permittee must notify the River Management Engineer immediately. If the project is constructed as you have described, as shown on the above referenced approved plans and per the above conditions, there is no reason to expect any violation of Vermont Water Quality Standards. Please be aware that the proposed project is in a municipality that participates in the National Flood Insurance Program (NFIP). Construction or storage within the Special Flood Hazard Area (SFHA) as delineated on the FEMA Flood Insurance Rate Map). 24 VSA, Section 4424 requires communities to submit SFHA permit applications to the ANR Regional Floodplain Manager for review and comment to ensure the project is compliant with local and NFIP minimum floodplain management standards. Please be aware that this authorization does not constitute ANR's review and comment under 24 VSA Section 4424.

D. Authorization:

E. Engineer Contact Information

**AUTHORIZATION TO CONDUCT
STREAM ALTERATION ACTIVITIES**

Pursuant to Section C.2.2, and C.2.3
of the VT Stream Alteration General Permit



VERMONT DEPARTMENT OF
ENVIRONMENTAL CONSERVATION
**WATERSHED
MANAGEMENT DIVISION**
RIVERS PROGRAM

(Reporting activities requiring Application or Registration)

<p>Signed this December, 30th, 2025 Julia S. Moore, Secretary Vermont Agency of Natural Resources</p> <p>by: _____, River Management Engineer Rivers Program, Watershed Management Division</p>	<p>Engineer: Jaron Borg Contact Phone: (802) 371-8342 Email Address: Jaron.Borg@vermont.gov</p>
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State of Vermont – Vermont Department of Environmental Conservation
Watershed Management Division - Stream Alteration Permitting
1 National Life Drive, Main 2 Montpelier, VT 05620-3522

Attachment F

Northfield Development Review Permit

Application # 2025-06
Tax Map # 923-022.100
Zone VILLAGE CENTER

Development Review Board Hearing Application Town of Northfield, Vermont

Property Location DOG RIVER, NEAR N. MAIN ST. BRIDGE

Applicant Name TOWN OF NORTHFIELD Phone _____

Mailing Address 51 S. MAIN ST.

Owner Name SAME Phone _____

Mailing Address SAME

Type of Application (check one):

- Variance from the Zoning District dimensional requirements
- Waiver of Zoning District setback/density requirements
- Conditional Use approval
- Change of Use
- Appeal of a decision of the Administrative Officer

Hearing Fee	125.00
Recording Fee	15.00
Total Fees	\$140.00
Paid date & initials:	<u>N/A</u>

(TOWN PARCEL)

Project Description REMOVAL OF CROSS BROTHERS DAM & PROTECTION OF EXISTING SEWER PIPES.

Relevant Section(s) of Zoning Ordinance _____

The undersigned property owner hereby certifies that the information submitted in this application regarding the property is true, accurate, and complete, and that the applicant has full authority to request approval for the proposed use of the property and any proposed modifications.

Signature of Owner [Signature] Date 03-05-2025

Signature of Applicant _____ Date _____

DRB Review

RECEIVED
MAR 05 2025

ZONING ADMINISTRATOR

- Hearing Scheduled MAR 27, 2025
- Request Denied
- Approved

Conditions of approval:

Approval per decision of DRB (see DRB Minutes of 24 April 2025)

Conditions: Documentation confirming access to work site. See

Permit Issued, Effective 12/6/2025 Permit # 2025-63

Zoning Administrator Signature [Signature] Date 11/21/2025

Please Note: The decision of the Zoning Administrator with regards to this application may be appealed to the Development Review Board. The applicant or any other interested party wishing to appeal the decision of the Zoning Administrator must provide written notice of a desire to appeal within 15 calendar days of the decision date. This permit will not become effective until the end of the 15-day appeal period.

Please provide a sketch of the proposed project. Use the space below or attach plans to this application. You must show:

- property boundaries (including road frontage with name) and acreage
- existing structures
- dimensions of the proposed structure(s)
- distances from the proposed structure(s) to front, side, and rear property boundaries

- SEE ATTACHED -

If public utilities are required, please attach Public Utility Checklist.

TOWN OF NORTHFIELD, VERMONT
DEVELOPMENT REVIEW BOARD
Minutes of April 24, 2025

The meeting was held in the Community Room of the Brown Public Library and was also streamed via the Town Zoom account for the benefit of those unable to attend in person.

The meeting was called to order at 7:05 pm by Vice-Chair Joel DeLary.

Roll Call: Present for the meeting were DRB members Joel DeLary, Kevin Pecor, Elroy Hill, and Brian Massey. DRB member Bill Smith was absent. Clerk Mitch Osiecki was also present. Others in attendance: Roy Schiff, SLR Consulting (applicant, Cross Brothers dam), Peter Monte (a partner in Young, Monte & Mayo LLP, an abutting property owner, Cross Brothers dam), Paul Simoneau (applicant), Diane McKain (Northfield Historical Society), Evan Detrick (appellant), and several property owners interested in the Bailey Road property subject to the Detrick appeal (Topper Morris; Kathleen Osgood; Sarah DeFelice; Emily Hawes; Sue Monmaney; Dan Monmaney; Charles Sanders; and Paul Dunkel).

Several other people participated via Zoom: Kelly Detrick (appellant); Sheri Knox (owner of 486 Bailey Road); Karina Dailey, VNRC (Cross Brothers dam); Ethan Ely; and Adam King, Arcadian Restorations.

Approval of Minutes

Motion: Brian Massey moved to approve minutes of Mar 27. Elroy Hill seconded.

Discussion: Mitch noted that he has amended the minutes to reflect that Peter Monte is a partner in the ownership group of a property abutting the Cross Brothers dam site.

Vote to approve: 3-0.

Permit #2025-06 – Cross Brothers Dam removal. Review tabled from Mar 27.

Two open items:

1. Peter Monte has requested a hydrology report.

2. Questions remain about access to the work site.

Roy Schiff presented the application. Roy discussed concerns raised by Peter Monte, including a hydrology report and desire for additional streambank armoring to protect his property from bank erosion.

Peter Monte indicated his desire to be granted Interested Party status. Peter was sworn in and was recognized as an Interested party.

Mitch noted that the documents shared by Roy Schiff in advance of this meeting will be added to the application package and will be appended to the meeting minutes.

Roy stated that access to the work site is still being negotiated by Town Manager Jeff Schulz.

Motion: Elroy Hill moved to approve the application as presented. Brian Massey, Jr seconded.

Discussion: Mitch suggested a friendly amendment that approval includes a condition that documentation of access to the work site be provided.

Vote to approve: 3-0. Motion carried.

Permit #2025-13 – Appeal of the issuance of Permit #2025-08 (Controlled burn/fire training exercise to raze an old dwelling at 486 Bailey Road.

The appellants are Evan Detrick (present) and Kelly Detrick (Zoom), residents of 324 Bailey Road.

The owner of the property at 486 Bailey Road is Sheri Knox (Zoom).

Sheri Knox stated that she purchased the property several years ago. She advised that the property is no longer in habitable condition, and that she is unable to insure the property.

Working with the Northfield Fire Department, she applied for a permit to do a controlled burn/fire training exercise to raze the structure.

Mitch noted that among the documentation attached to the original zoning permit is an Asbestos Abatement Permit.

Comment from Charles Sanders: Expressed concern that the controlled burn would include asphalt shingles and lead paint.

Questions from Evan Detrick:

1. Does the DRB have the authority to approve/deny the decision on the original permit?
2. If they approve the controlled burn, can they impose conditions?

Response: yes, to both questions.

Evan also noted his desire to see all hazardous materials removed, to the greatest extent possible, prior the structure being burned. Noted the presence of curtains in the windows, and likely asphalt shingles.

He further argued that the original zoning permit was incomplete, noting the absence of dimensions of the structure.

Evan stated that he was advised by the Town Manager of the process for demolition, including that the structure would be burned and remnants of the fire buried. He expressed further concern that the structure includes lead paint.

He added that the DEC had advised him that debris from a burn is supposed to be removed from the site, not buried. He is also concerned that no timeline has been proposed for clearing the site.

Another concern: water used to put out the fire could pollute a pond on the site.

Evan asked that, if the DRB opts to allow the controlled burn to proceed, they impose several conditions, including:

- Compel the owner to remove all potentially hazardous materials from the house prior to burning to the greatest extent possible, as required, and verify that the work has been done.
- Compel the owner to have all burn remnants properly cleaned up, taken off-site, and disposed of at an authorized location in accordance with State law, and verify that work has been done properly.
- Compel owner to grade a water bar uphill of the pond to divert runoff away from the pond.
- Define a timeline for the clean-up of the site by the owner and not leave it open ended. Suggests no more than one week after the burn, or before the next rain event, if sooner.

Comments from Paul Dunkel: raised two concerns.

1. A controlled burn makes a mess, which must be cleaned up.
2. Tearing down structures is also expensive to clean up.

Paul further commented that the town is accepting potential liability by allowing structures to be burned, not getting much payback in exchange. He prefers that structures are demolished and remnants hauled off, rather than allowing the practice of controlled burns.

Comments from Diane McKain of the Northfield Historical Society.

Diane expressed strong support for the preservation of a structure with architectural and historical significance. She added that she hopes older structures can be protected and restored whenever possible.

Comments from Kelly Detrick:

Expressed concern about particulate matter being released into the air. Stated that this is a hazard to children, pets, wildlife, and farm animals. She stated that she is strongly opposed to this structure being burned.

Comments from Topper Morris:

Topper said that he wrote to Fire Chief Pete Demasi asking about the potential for wind gusts which he believes could complicate a controlled burn. He stated that technology exists to help measure/monitor wind, but the town does not have access to it. He says such technology exists and the town should explore the feasibility of obtaining it.

He believes the town is assuming an unnecessary liability by conducting controlled burns without the ability to measure winds. He shared a document describing the technology he is referring to. Document will be appended to the minutes.

Comment from Charles Sanders:

Stated that there is a sugar house across the road from the dwelling that could be at risk if fire were to get out of control.

Comment from Kathleen Osgood:

Lamented that there are very few working farms in the area any longer. Expressed her appreciation for the old barn on the site of the dwelling in question.

Comments from Adam King, Arcadian Restorations.

Adam stated that Preservation Trust of Vermont brought this site to his attention.

Adam suggested that there are several alternatives to burning an old structure and believes that such a measure should be a last resort.

He proposed several alternatives:

1. His preferred option is that an old structure be restored when possible.
2. He suggested that another option is to have the structure moved to a new location.
3. His third suggestion is to have the structure dismantled and stored, for potential reconstruction and a date and location to be determined.
4. His final idea is a hybrid approach, in which a structure is partially dismantled, but the usable portion is maintained.

Adam stated that he would be interested in documenting the dismantling and restoration of the structure.

Adam stated that historic preservation money is often available to assist in the rehabilitation of older structures.

He added that the removal of one structure from the site would make it unlikely that grant money could later be obtained for the restoration of other structures on the site.

Comments from Sheri Knox, the owner of 486 Bailey Road.

Sheri stated that the dwelling is not considered a historic structure. She added that the property is considered uninsurable, and she's been advised that restoration is not financially viable.

Sheri added that she posted on Front Porch Forum a few years ago looking for someone to demolish the house. She received no offers, but eventually the Fire Department contacted her and suggested working with her on a controlled burn to raze the structure.

She stated that the remnants of the burn will not be buried on-site but will be scooped into dumpsters and responsibly disposed of within a day or two of the burn.

Sheri added that she would be happy to explore options for reusing, renovating, or relocating the dwelling if others are interested.

Sheri asked if she could withdraw her application if another option becomes viable.

Response: yes, Mitch will be happy to discuss options with her.

Comment from Ethan Ely:

Ethan noted that Preservation Trust of Vermont performs assessments of older structures.

Joel DeLary asked if the property owner explored options for demolishing the structure.

Response: yes, posted on Front Porch Forum. Received some responses, but no offers to undertake the project.

Sheri stated that she wishes to be as respectful of the environment as possible, but at this point a controlled burn appears to be her best option.

Elroy Hill asked whether the State Fire Marshall has approved the controlled burn.

Response: not the Fire Marshall, but rather the Department of Environmental Conservation (DEC).

Comment from Charles Sanders:

Feels the owner should have the dwelling dismantled or demolished. Does not believe burning the structure is the best option.

Brian Massey asked whether the owner is committed to razing structure via a controlled burn. Are other options possible?

Response: She has researched other options. But neither salvaging nor restoring the dwelling are financially viable.

Brian also noted that Adam King discussed alternatives to burning the structure. Wonders if Adam and Sheri could connect to continue discussions.

Kelly Detrick asked whether the property owner has researched options for renovation or demolition.

Sheri repeated that she did explore various options but got no offers from anyone interested in doing a demolition of the dwelling.

No further questions from DRB members or meeting participants.

Motion: Elroy Hill moved to table the decision. Brian Massey seconded.

Discussion: DRB members expressed the need for more information from the Northfield Fire Department, State of Vermont, and Town Manager.

Brian commented that he visited the property and believes the property appears to be in good condition. Expressed hope that the property owner is open to exploring options.

Vote to Approve: 3-0. This matter is tabled until the next DRB Meeting on May 22.

Permit #2025-15 – Site Plan Review for Central Vermont Rentals LLC at 310 North Main Street

Paul Simoneau presented the application.

Paul provided the DRB members with:

1. A revised site plan.
2. A revised parking Plan.

Paul stated that he has an agreement with an abutting property owner (Nantana Mill) for a Lot Line Adjustment that will provide him with enough room to create several parking spaces, plus a turn-around area to facilitate access.

Joel asked about the planned start date for the renovation of the building.

Response: as soon as possible.

DRB cautioned that snow is not necessarily removed promptly from sidewalk on North Main Street.

Question from Joel: Will apartments include laundry facilities?

Response: yes.

DRB asked about project timeline?

Response: Hopefully, about nine months.

No further questions from the DRB. No member of the public was present with questions or objections.

Motion: Elroy Hill moved to approve the project as presented. Brian Massey seconded.
Vote to approve: 3-0. Motion carried.

Other Business

Mitch provided the DRB with updates on several ongoing projects.

1. Norwich University has razed two academic buildings on Park Avenue. Site work continues.
2. Mitch is awaiting a response from the developers of the apartment complex next to Dollar General. We expect construction to begin this spring.
3. In consultation with Town Manager Jeff Schulz, we have decided that the owners of The Rustic Inn (now, The Stic), do not need DRB approval for outdoor dining.
4. May soon be an announcement regarding some potential new housing on a portion of Foran Farm property (formerly owned by Barry Chouinard).

Adjournment

Motion: Elroy moved to adjourn. Brian seconded.

Vote to approve: 3-0.

Meeting adjourned at 8:56 pm.

A recording of this meeting can be viewed at this link: (Coming Soon)

Attachment G

Bid Sheet

BID SHEET

CROSS BROTHERS DAM REMOVAL

NORTHFIELD, VERMONT

BIDS DUE: Thursday May 21, 2026 at 4:00 PM

Company: _____ Contact: _____

Address: _____

Phone: _____ Email: _____

Reference 1: _____

Reference 2: _____

Fill disposal Site Location: _____

Addendums Received: _____

Bid Item	Typical Tasks	Unit	Quantity	Item Cost (\$)
A. MOBILIZATION / SITE PREPARATION	Job site setup, temporary construction fencing, establish site access, erosion and sedimentation control measures, construction signage, construction staking and survey, and water control.	Lump Sum	1	
B. DAM REMOVAL	Remove and dispose of concrete dam and appurtenant structures (1,100 CY).	Lump Sum	1	
C. INSTALL STONE ARMOR	Furnish and install stone armor along northern riverbank, at sanitary sewer crossings, along bank next to concrete patio area, and along southern bank downstream of dam (1,000 CY Type IV Stone Fill). Reuse native river sediment and install grubbings to cover armor and fill void space between stones.	Lump Sum	1	
D. SEDIMENT REMOVAL	Remove impounded sediment (1,800 CY), regrade downstream sediment bar, and reuse impounded sediment to fill erosion along former bypass channel. Re-install stockpiled boulders. Haul excess sediment to disposal site and grade (1200 CY). Shape channel in project area.	Lump Sum	1	
E. SITE RESTORATION / DEMOBILIZATION	Seed and mulch to restore disturbed soils; install riparian plantings, live stake join plantings, and willow fascines; remove construction access; restore paved surfaces; and job site cleanup.	Lump Sum	1	
TOTAL BID (written and \$)				