REGULAR COUNCIL MEETING

Tuesday, November 7, 2023 6:00pm Join Zoom Meeting
https://us06web.zoom.us/j/88982525535?pwd=VzlXOU5taldoYkgySUdTcldqSUVGQT09
Meeting ID: 889 8252 5535 Passcode: 675736
One tap mobile 929-205-6099

1. Call to Order – 6:00 p.m.
2. Adjustments to the Agenda
3. Visitors and Communications
4. Consent Agenda
   A. Approval of Minutes Regular City Council Meeting of Tuesday October 24, 2023
   B. City Warrants:
      i. Ratification of the Warrants from week of November 1, 2023
      ii. Approval of City Warrants from Week of November 8, 2023
   C. Clerk's Office Licenses and Permits
   D. Ratify Council's 10/24/23 approval of Downtown Vibrancy Fund municipal letter of attestation
   E. Accept assistance through the Municipal Technical Assistance Program
   F. Authorize the Manager to execute a 10-year $416,345 contract with Axon for Police Department body worn cameras and ratify acceptance of a federal $22,000 grant to support implementation
5. City Clerk & Treasurer Report
6. Liquor/Cannabis Control Boards
7. City Manager's Report
8. New Business
   A. Update from State of Vermont on North End recovery and resiliency (D. Farnham/J. Moore)
   B. Authorize Friends of the Winooski to proceed with dam removal projects (M. Braun)
   C. Discussion with former members of the Transportation & Public Works Committee (Mayor/Stockwell)
   D. Second Reading and Public Hearing Warned 6:30PM: Accessory Dwelling Unit Zoning Revisions (Mayor)
9. Upcoming Business
10. Round Table
11. Executive Session – As Needed
12. Adjourn

The next meeting of the City Council is scheduled for Tuesday, November 21, 2023.
The portion of this meeting starting at 6:00pm will be taped for re-broadcast on Channel 194 CVTV and will be re-broadcast on Wednesday at 9:00 a.m. and 12:00 noon CVTV Link for meetings online – cvtv723.org/

OTHER MEETINGS AND EVENTS

Tuesday, November 7

Board of Abatement, 5:15 PM, City Council Chambers and Zoom

Wednesday November 8

Building and Facilities 8 A.M. Alumni Hall Conference Rm 1st Floor

Thursday November 9

Planning Commission 5:30 Council Chambers in person and Zoom

Ground Rules for Interaction with each other, staff, and the general public

- Rules may be reviewed periodically

- Practice mutual respect
    - Assume good intent and explain impact
    - Ask clarifying questions
    - If off course, interrupt and redirect

- Think, then A.C.T.
    - Alternatives – Identify all choices
    - Consequences – Project outcomes
    - Tell your story – Prepare your defense

- Ethics checks
    - Is it legal?
    - Is it in scope (Charter, ordinance, policy)?
    - Is it balanced?

- "ELMO" – Enough, Let's Move On
    - Honor time limits
    - Be attentive, not repetitive

- Be open-minded to different solutions or ideas
    - Remarks must be relevant and appropriate to the discussion; stay on subject
    - Don't leave with "silent disagreement"
    - Decisions agreed on by consensus when possible, majority when necessary
    - All decisions of Council are final

- No blame
    - Articulate expectations of each other
    - We all deeply care about the City in our own way
    - Debate issues, not personalities

- Electronics
    - No texting, email, or videogames during the meeting

City of Barre, Vermont

6 N. Main St., Suite 2
Barre, VT 05641
www.barrecity.org

R. Nicolas Storellicastro
City Manager
(802) 476-0240
citymanager@barrecity.org

MEMO

TO: City Council
FR: The Manager
DATE: 11/3/2023
SUBJECT: Packet Memo re: 11/7/23 Council Meeting Agenda Items

Councilors:

As a reminder, the next regular Council after Tuesday will be Tuesday, November 21, 2023 at 6:00PM. The following notes apply to packet support materials for the Subject Council Meeting Agenda.

4-F: Ratify Council's 10/24/23 approval of Downtown Vibrancy Fund municipal letter of attestation

There is no memo in the packet associated with this agenda item. This agenda item is necessary to ratify the Council's approval of an attestation that was added as an adjustment to the October 24, 2023 consent agenda. This attestation letter supports a $25,000 grant application for The Barre Partnership.

4-E: Accept assistance through the Municipal Technical Assistance Program

The Central Vermont Regional Planning Commission (CVRPC) notified us that Barre City is pre-approved to receive assistance through the Municipal Technical Assistance Program (MTAP). Assistance through this program is free, and requires only a warned agenda item of the City's legislative body. Among other services, this program assists communities with additional capacity for accessing and applying for state and federal grants.

4-F: Authorize the Manager to execute a 10-year $416,345 contract with Axon for Police Department body worn cameras and ratify acceptance of a federal $22,000 grant to support implementation

Chief Vail and I are excited to seek the Council's approval of a contract to implement body worn cameras for officers in our Police Department. This has been a priority of the Chief since he arrived in Barre, and I share his urgency in making this important investment in our Police Department.

8-A: Update from State of Vermont on North End recovery and resiliency (Doug Farnham and Julie Moore)

There is no memo in the packet associated with this agenda item. Our State partners, including Chief Recovery Officer Doug Farnham and Secretary of Natural Resources Julie Moore, will provide an update on conversations regarding North End recovery and resiliency. If I receive any materials ahead of the meeting, I will send those to the Council.

8-B: Authorize Friends of the Winooski to proceed with dam removal projects (Michelle Braun)

Michele Braun (Friends of the Winooski will update Council on dam removal projects. This item was originally scheduled for the July 11, 2023 Council meeting which was subsequently cancelled due to the flood.

8-C: Discussion with former members of the Transportation & Public Works Committee (Mayor/Councilor Stockwell)

There is no memo in the packet associated with this agenda item. In the past few weeks, three members of the Transportation & Public Works Committee have resigned (Michael Hellein, Joanne Reynolds, and Ericka Reil). At the request of the Mayor and Councilor Stockwell, those members have been invited to the Council meeting to discuss their experiences on the Committee.

Regular Meeting of the Barre City Council
Held October 24, 2023

The Regular Meeting of the Barre City Council was called to order via video platform by Mayor Jake Hemmerick at 6:00 PM at, Barre, Vermont. In attendance virtually were: From Ward I, Councilors Emel Cambel and Thom Lauzon; from Ward II, Councilors Michael Boutin and Teddy Waszazak; and from Ward III, Councilors Michael Deering and Samn Stockwell. City staff members present were City Manager Nicolas Storellicastro, Assistant Manager Dawn Monahan, Planning Director Janet Shatney, and Clerk/Treasurer Carol Dawes.

Absent: NONE

Others Present: NONE

Adjustments to the Agenda: The following adjustments were made:

- Added Downtown Vibrancy Fund municipal letter of attestation to the consent agenda.
- Moved Liquor Control/Cannabis Control Board to immediately following adjustments to the agenda.
- Moved North End flood recovery discussion and presentation to the beginning of Visitors and Communications.

Liquor Control Board/Cannabis Control Board –
Seiji Ohashi, representative for Tally, located at 224 N. Main Street, told the Council about this new establishment, which is set to open shortly. It will feature pool, shuffleboard, and other gaming options. Councilor Lauzon said he is conflicted out of the discussion and decision, as he has a relationship with the establishment. Council approved the new first class liquor license for Tally at 224 N. Main Street on motion of Councilor Waszazak, seconded by Councilor Stockwell. **Motion carried with Councilor Boutin abstaining and Councilor Lauzon recused.**

Presentation of 2023 Extra Mile Day Mayoral Proclamation.
Mayor Hemmerick read the proclamation, honoring Amanda Gustin and Shawn Trader for their service to the community in flood response and recovery efforts. Ms. Trader accepted copies of the proclamation on behalf of herself and Ms. Gustin, and those in attendance gave a standing ovation acknowledging their service.

Visitors and Communications
A) North End flood recovery discussion and presentation from State partners.
Governor Phil Scott spoke of growing up in Barre, and the concept and vision for the North End that is developing out of the flood recovery efforts. Gov. Scott said he toured the North End in the days immediately following the flood, along with Vermont's congressional delegation, and representatives from FEMA and various state agencies. There are federal emergency disaster funds available to assist in redevelopment of the area, and the aim is protecting and improving the neighborhood.

Chief Recovery Officer Doug Farnham said the goals are to maximize federal funds, build resiliency and reduce risk, respect local visions of growth, co-exist with the river without it being a threat, grow housing units, and ensure home ownership opportunities.

There was discussion on engaging the public and building a public input process.

Keith Robinson and Jim Drummond from Black River Design reviewed the conceptual designs for the North End area. Mr. Drummond said they looked at background data, zoning districts, number of current housing units in the identified area (92), lot divisions, overlays of the area with the flood map, building resilience and reducing future flooding risk, proposed replacement housing outside of the flood zone, raising elevations, and proposing a park/public space that could provide water capacity are part of a regional flood plan.

Mr. Robinson said the draft concept calls for the creation of a connector road between the area near 4th Street and Beckley Street, and the plan shows 225 possible dwelling units in a mix of multi-story/multi-unit buildings, duplexes, and single family homes.

It was noted the conceptual plan doesn't include any property on the west side of Route 302, and there was discussion on including river-adjacent property, and possibly including more commercial areas.

Sue Higby said the plan needs to include housing for a mix of income levels.

Danielle Owczarski said the focus should be on a watershed study for the City and upstream areas. We need to look to other areas as pressure relief, and review and replace undersized infrastructure that contributes to flooding. Ms. Owczarski said the equity impact assessment tool should be used throughout the process.

Agency of Natural Resources Secretary Julie Moore said they will be conducting a study throughout the Winooski watershed area in partnership with the Army Corps of Engineers, as the area impacts a number of different projects.

Joellen Calderara said her home is on Beckley Street, and she noted there is conservation property in that area that appears to be included in the development concept. Ms. Calderara said the properties on First, Second, and Third Streets were more seriously damaged during the flood than those on Beckley Street, and the more severely damaged properties might be more suitable for relocating than those in the Beckley Street area.

There was discussion on data gathered and used to build this initial draft concept, getting into the neighborhoods to talk with residents about what they need/want, engaging City leadership, voluntary buyouts, interim housing, and building the public input process.

Shawn Trader said design efforts need to be collaborative, and there should be a set number of affordable housing units.

Interim Commissioner of Housing and Community Development Alex Farrell said setting the number of housing units and mixed income levels would be driven by the community input process.

Ms. Calderara said any plan should include the Vine Street/Scampini Square area, which was heavily damaged in the flood.

Amy Galford said there are a lot of granite sheds, parking lots, and roads in the area, and runoff from those properties needs to be taken into consideration. Ms. Galford said there is state property and railroad property involved, along with the intersection of Routes 302, 14, and 62, where flooding was extensive. She asked if the public works garage can be included, as it was damaged in the flood and needs replacing.

Bernadette Rose said development in Barre Town impacts Barre City as it increases water flowing through the City.

Ms. Higby asked what will make the strongest proposal to the federal government? She said there needs to be a variety of housing and a variety of building styles.

Ellen Kaye said development needs to serve the unhoused population, also. She said there need to be guardrails around any development to ensure the disaster isn't used as an opportunity by developers. The project needs to serve the community.

Ms. Trader said the same energy being exhibited for redevelopment projects needs to be brought to bear on the current circumstances.

On a different topic, Steven Mudd said a neighbor next to his apartment has kept their trash cans on the sidewalk since April. Mr. Mudd said the trash cans used to be stored behind the neighbor's building, but now they're permanently on the sidewalk. He asked if there are restrictions on such actions. Assistant Manager Monahan took Mr. Mudd's information and will put him in contact with the code enforcement division.

Returning to the North Main Street conceptual plans, there was discussion on next steps, identifying a point of contact in the disaster recovery office, coordinating public events, and coming up with a broad concept to start negotiations with Congress.

Also under Visitors and Communications, Barre Unified Union School District board chair Giuliano Cecchinelli said there is an opening on the board for a Barre City resident. Notification of the opening will be posted for the next two weeks, and anyone interested in being appointed to fill the vacancy until Town Meeting Day should send a letter to Clerk Dawes by noon on November 7th. Interviews and appointment will be made at the November 8th BUUSD board meeting.

Approval of Consent Agenda:
Council approved the following consent agenda items on motion of Councilor Cambel, seconded by Councilor Stockwell. **Motion carried.**

A. Approval of Minutes:
    i. Special meeting of October 17, 2023.
B. City Warrants as presented:
    1. Approval of Week 2023-43, dated October 25, 2023:
        i. Accounts Payable: $1,800,534.68
        ii. Payroll (gross): $162,070.21
C. 2023 Clerk's Office Licenses & Permits: NONE
D. Accept volunteer resignations:
    i. David Hough, Ward II, Development Review Board
    ii. Joanne Reynolds, Transportation & Public Works Committee
    iii. Ericka Reil, Transportation & Public Works Committee
E. Modify Jayme Bauer's Development Review Board appointment from an At-large seat to the vacant Ward II seat
F. Appoint Arthur Young as Deputy Health Officer

Mayor Hemmerick recused himself from the following action due to conflict of interest. Councilor Boutin assumed the chair.

(added under adjustments to the agenda) Council approved the Downtown Vibrancy Fund municipal letter of attestation for the Barre Partnership on motion of Councilor Waszazak, seconded by Councilor Deering.
Motion carried with Mayor Hemmerick recused.

Mayor Hemmerick resumed chairing the meeting.

City Clerk & Treasurer Report –
City Clerk/Treasurer Carol Dawes reported on the following:

- Second quarter tax payments are due by November 15th.
- The Board of Civil Authority and Board of Abatement are meeting tomorrow evening at 6PM.

City Manager's Report –
Manager Storellicastro reported on the following:

- A red tag placed on a property on Kinney Place has been removed after the owner made the necessary modifications to ensure the safety of the structure. Those living in the building have been allowed to return.
- Access to the Barre Town drop off for yard waste runs through the end of October.
- The City is co-hosting a free COVID and flu vaccination clinic at Spaulding High School on November 8th from 4-8 PM.

Councilor Lauzon asked that Mr. Farnham provide the City with the list of properties still without operational heating systems so wellness checks can be performed. Ms. Calderara said the state is making those calls on a weekly basis.

Mayor Hemmerick asked for an update on the West Patterson Street landslide situation. Manager Storellicastro said that location is on the list of sites being reviewed by geotechnical engineering firm Sanborn Head. Any planned remediation will be based on their report.

New Business –
A) North End flood recovery discussion and presentation from State partners.
This item was addressed earlier in the meeting under Visitors and Communications.

B) Volunteer appointments:

i. **Chrysta Murray, Ward I, Development Review Board**

Chrysta Murray expressed her interest in serving on the Development Review Board. Council approved the appointment on motion of Councilor Lauzon, seconded by Councilor Boutin. **Motion carried.**

C) Reduce the size of the Parks & Recreation and Transportation & Public Works Committees from 9 members to 5 members.
Council approved the reduction in committee members on motion of Councilor Boutin, seconded by Councilor Lauzon. **Motion carried.**

Upcoming Business –
The following will be on the 11/7 agenda:

- Review of housing recommendations and ideas from Councilors.
- Second reading of the ADU zoning ordinance revisions.

Round Table –
Councilors thanked those who made the conceptual presentation on redevelopment of the North End, and said they are excited to begin the planning process.

Councilor Waszazak said this is Farm to School Month, and he spent time at the Spaulding High School alternative campus on Allen Street, where students shared their farming and food production projects.

Councilor Boutin said he is talking with North Barre Manor about hosting a Council meeting there in the near future.

Councilor Deering said local football squads are playing in playoff games this weekend.

Mayor Hemmerick said the conversations at last week's VT Council on Rural Development Barre Up community forum were good, with more flood-impacted properties represented. It was noted the FY25 budget process will kick off at the next Council meeting on November 7th.

Executive Session – Councilor Boutin made the motion to find that premature general public knowledge of litigation to be discussed would clearly place the City of Barre at a substantial disadvantage should the discussions be public. The motion was seconded by Councilor Waszazak. **Motion carried.**

Council went into executive session at 8:10 PM to discuss litigation under the provisions of 1 VSA § 313 on motion of Councilor Stockwell, seconded by Councilor Waszazak. Manager Storellicastro was invited into the executive session. **Motion carried.**

Council came out of executive session at 8:19 PM on motion of Councilor Lauzon, seconded by Councilor Waszazak. **Motion carried.**

There was no action taken.

The meeting adjourned at 8:19 PM on motion of Councilor Lauzon, seconded by Councilor Waszazak. **Motion carried.**

The open portions of the meeting were recorded on the video platform.

Respectfully submitted,

Carolyn S. Dawes, City Clerk

By check number for check acct 01(GENERAL FUND) and check dates 11/01/23 thru 11/01/23

Vendor PO Number	Invoice Number	Invoice Description	Account Number	Account Description	PO Amount	Invoice Amount	Check
19445 SANBORN HEAD & ASSOCIATES INC							
	0062248	prof svcs Ayers St	001-9332-360.1329	JULY 23 FLOOD EXPENSES	0.00	871.20	150998
	0062249	prof svcs 43 Foster St	001-9332-360.1329	JULY 23 FLOOD EXPENSES	0.00	871.20	150998
	0062250	prof svcs Rt 62 & Berlin	001-9332-360.1329	JULY 23 FLOOD EXPENSES	0.00	871.20	150998
	0062251	prof svcs Leonard St	001-9332-360.1329	JULY 23 FLOOD EXPENSES	0.00	871.20	150998
	0062346	prof svcs Pike Street	001-9332-360.1329	JULY 23 FLOOD EXPENSES	0.00	5,301.99	150998
					0.00	8,786.79	
01088 AFSCME COUNCIL 93							
	PR-11012023	PR- week ending 10/27/23	001-2000-240.0007	UNION DUES PAYABLE	0.00	242.64	E382
01150 AIRGAS USA LLC							
	9142724377A	Short paid orig inv	002-8220-320.0727	BLDG & GROUNDS MAINT	0.00	30.00	150891
01218 ATLAS TECHNICAL							
	2533163	Enterprise Aly environmen	048-8315-200.0210	ENT ALY O&M	0.00	14,398.81	150892
23018 AUBUCHON HARDWARE							
	491037	digital thermostat	001-8050-320.0727	BLDG & GROUNDS MAINT	0.00	26.09	150893
	491083B	short paid orig inv	001-7030-350.1053	SUPPLIES/EQUIPMENT	0.00	0.05	150893
	497657A	keys	002-8200-320.0727	BLDG & GROUNDS MAINT	0.00	9.42	150893
					0.00	35.56	
01209 AVENU INSIGHTS & ANALYTICS							
	INVB-048602	LR managment system-oct	001-5070-220.0417	RECORDING OF RECORDS	0.00	950.00	E383
02047 BARRE ELECTRIC & LIGHTING SUPPLY I							
	355889	12v battery/cushion screw	002-8200-320.0749	VAULT MAINTENANCE	0.00	102.95	150894
02089 BARRE OPERA HOUSE							
	10252023	Opera House reimbursement	001-6043-200.0210	CITY HALL ELECTRICITY	0.00	900.00	150895
02148 BARTLETT & BRILLON LLC							
	VT8594TS	cable assemblies 10ft	003-8330-320.0740	EQUIPMENT MAINT	0.00	221.72	150896
02511 BEAUDRY, DAVID & DEBORAH OR CITY O							
	10112023	Delinquent Tax Refund	001-2000-200.0214	REFUND OVERPAYMENT-T/C	0.00	377.73	150897
02102 BELLAVANCE LOGISTICS							
	L345125	excavator/bank /JohnSt	001-9332-360.1329	JULY 23 FLOOD EXPENSES	0.00	201.07	150898
02193 BEN'S UNIFORMS							
	111410	uniform	001-6040-340.0940	CLOTHING	0.00	91.00	150899
02512 BETTIS SHANE							
	10172023	refund OP / del W&S	002-2000-200.0214	REFUND OVERPAYMENT-T/C	0.00	5.17	150900
03445 BLUE CHRISTENSEN							
	10062023	park permit refund #0226	001-4030-430.4038	PARKING PERMITS	0.00	56.25	150901

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Vendor PO Number	Invoice Number	Invoice Description	Account Number	Account Description	PO Amount	Invoice Amount	Check
22240 BRANDON J VEST							
	10262023	city hall/dpw repair-floo	001-9332-360.1329	JULY 23 FLOOD EXPENSES	0.00	69,110.00	150902
02162 BRINK NELBERTA							
	10192023	OP del taxes/refund	001-2000-200.0214	REFUND OVERPAYMENT-T/C	0.00	52.08	150903
03217 C V LANDFILL INC							
	693465	dump fee	003-8330-320.0727	BLDG & GROUNDS MAINT	0.00	16.20	150904
03087 CAPITOL STEEL & SUPPLY CO							
	I030407	hardox steel plate 4x4	001-8050-320.0742	SNOW EQUIP MAINT	0.00	855.00	150905
03276 CARROLL CONCRETE							
	451567	Hope Cemetery-ready mix	001-8500-360.1196	FOUNDATIONS	0.00	768.00	150906
03035 CITY OF MONTPELIER							
	2092	Sept ambulance billing	001-6040-340.0949	AMB CONTRACT BILLING	0.00	4,522.56	150907
03203 CW PRINT + DESIGN							
	84942	banner	048-9130-360.1327	VLCT COMMUNITY GRANT EXP	0.00	459.00	150908
05069 EDWARD JONES							
	PR-11012023	PR week ending 10/27/23	001-2000-240.0006	ANNUITY PAYABLE	0.00	100.00	150909
05059 ENDYNE INC							
	467084	WSID 5254 TC	002-8220-320.0749	WATER SAMPLING/TESTING	0.00	90.00	150910
	467241	E.coli	003-8330-320.0749	WASTEWATER SAMPLING/TESTI	0.00	25.00	150910
	467386	WSID 5254 DBP2	002-8220-320.0749	WATER SAMPLING/TESTING	0.00	1,080.00	150910
					0.00	1,195.00	
05107 ENGLOBE CORP USA							
	10162023	ww biosolid comp-gsi	003-8330-230.0519	DISPOSAL OF SLUDGE	0.00	27,954.34	150911
06009 F W WEBB CO							
	82764192	1/2 float valve/bronze	001-7030-320.0727	BLDG/GROUNDS MAINT	0.00	49.56	150912
06150 FADDEN RICHARD G JR OR CITY OF BAR							
	10202023	delinquent tax refund	002-2000-200.0214	REFUND OVERPAYMENT-T/C	0.00	11.83	150913
06122 FARNHAM BRIAN							
	10262023	national fire classes -6d	001-6040-130.0182	TRAVEL & MEALS	0.00	347.84	150914
06012 FISHER SCIENTIFIC							
	6087309	sodium hydrox/buffer blue	003-8330-320.0737	LAB MAINT	0.00	134.19	150915
	6549141	elec storage sol.	003-8330-320.0737	LAB MAINT	0.00	54.03	150915
					0.00	188.22	
07086 GRANITE CENTER GARDEN CLUB							
	10252023	plants mulch/city garden	001-8035-320.0727	MAIN ST MAINTENANCE	0.00	2,059.19	150916

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07206 GREAT-WEST TRUST COMPANY, LLC							
	PR-11012023	PR week ending 10/27/23	001-2000-240.0006	ANNUITY PAYABLE	0.00	408.41	150917
07006 GREEN MT POWER CORP							
	10132023	6 n main/historic lights	001-6060-200.0210	ELECTRICITY	0.00	533.07	150918
	10132023A	summer/elm traffic light	001-6070-200.0210	TRAFFIC LIGHT ELECTRICITY	0.00	62.64	150918
	10162023	dpw sewer dept building	003-8300-200.0210	ELECTRICITY	0.00	125.35	150918
	10162023A	enterprise alley lighting	001-6060-200.0210	ELECTRICITY	0.00	130.77	150918
	10162023B	dpw water dept yard	002-8200-200.0207	ELECTRICIEY BURNHAM YD LI	0.00	32.07	150918
	10162023C	merchant row EV charge	001-6045-200.0210	EVCS ELECTRICITY-MERCH RO	0.00	404.05	150918
	10162023D	prospect brdg heat trace	002-8200-200.0204	ELECTRICITY-PROSPECT BDGE	0.00	25.80	150918
	10162023E	enterprise alley srv bldg	048-8315-200.0210	ENT ALY O&M	0.00	38.96	150918
	10162023F	keith/pearl ped way	001-6060-200.0212	PEDWAY/KEITH AVE LOT LIGH	0.00	112.78	150918
	10162023G	public works garage	001-8050-200.0210	ELECTRICITY	0.00	411.16	150918
	10162023H	135 n main/wheelock bldg	001-7015-200.0210	WHEELOCK ELECTRICITY	0.00	44.41	150918
	10182023	n main/dente park	001-8040-200.0210	ELECTRICITY CURRIER/DENTE	0.00	33.16	150918
	10182023A	n main/maple traffic ligh	001-6070-200.0210	TRAFFIC LIGHT ELECTRICITY	0.00	92.12	150918
	10182023B	maple ave/summer traffic	001-6070-200.0210	TRAFFIC LIGHT ELECTRICITY	0.00	84.39	150918
					0.00	2,130.73	
08053 HOLLAND CO INC							
	PI-24129	liquid polyaluminum chlor	003-8330-360.1148	SODIUM ALUMINATE	0.00	8,565.92	150920
20097 IAFF LOCAL #881							
	PR-11012023	PR week ending 10/27/23	001-2000-240.0007	UNION DUES PAYABLE	0.00	320.00	E384
09052 INOVALON PROVIDER INC							
	23M-0152002	statement mailers inserts	001-6040-340.0948	AMBULANCE BILL MAILERS	0.00	106.53	150921
09021 IRVING ENERGY							
	225646	196.1 gl propane/15 4th S	001-7035-330.0836	PROPANE	0.00	259.24	150922
10094 JAYBIRD SERVICES LLC							
	10012023	NCAA floor markings	048-8000-320.0762	BOR BANNER EXP	0.00	200.00	150923
12011 LENNYS SHOE & APPAREL							
	3476535	B Blackshaw	001-6040-340.0943	FOOTWARE	0.00	130.00	150924
	3477066	A Young	001-6040-340.0943	FOOTWARE	0.00	229.95	150924
					0.00	359.95	
12314 LITTLE MOOSE PHOTOGRAPHY OR CITY O							
	10122023	refund delinq taxes	001-2000-200.0214	REFUND OVERPAYMENT-T/C	0.00	58.87	150925
12009 LOWELL MCLEODS INC							
	S78692	spring brake-30/30 sealed	001-8050-320.0743	TRUCK MAINT - STS	0.00	154.45	150926
	S78707	quick rel valve 3/8 port	001-8050-320.0743	TRUCK MAINT - STS	0.00	42.90	150926

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Vendor PO Number	Invoice Number	Invoice Description	Account Number	Account Description	PO Amount	Invoice Amount	Check
	S78717	(4) 78x44 u bolts	001-8050-320.0743	TRUCK MAINT - STS	0.00	107.92	150926
	S78719	(15) washers 5/8x4	001-8050-320.0742	SNOW EQUIP MAINT	0.00	24.90	150926
					0.00	330.17	
11059 LW BILLS COMPANY							
	3243	register paper bundle/10	001-6040-320.0726	MAINT FIRE ALARM/NEW BOX	0.00	124.22	150927
13061 MAINE OXY							
	3002819699	propane 33.5# /BOR rink	001-7030-350.1053	SUPPLIES/EQUIPMENT	0.00	362.45	150928
13935 MARTINEAU BRENDA							
	OE44064	eyeglasses/refraction	001-5070-340.0944	GLASSES	0.00	384.00	150929
13075 MCWILLIAM JAMES							
	2014837	thank you notes	048-8000-320.0762	BOR BANNER EXP	0.00	19.61	150930
	2022-28-JM	marketing services	048-8000-320.0762	BOR BANNER EXP	0.00	512.50	150930
					0.00	532.11	
14017 NATIONAL FRATERNAL ORDER OF POLICE							
	PR-10042023	PR week ending 09/29/23	001-2000-240.0007	UNION DUES PAYABLE	0.00	377.60	150931
	PR-10182023	PR week ending 10/13/23	001-2000-240.0007	UNION DUES PAYABLE	0.00	358.72	150931
	PR-10252023	PR week ending 10/20/23	001-2000-240.0007	UNION DUES PAYABLE	0.00	358.72	150931
					0.00	1,095.04	
14016 NELSON ACE HARDWARE							
	278571	lumber crayons/red	001-8050-350.1061	SUPPLIES - GARAGE	0.00	11.45	150932
	278612	led bulbs 18w	001-8050-350.1061	SUPPLIES - GARAGE	0.00	34.18	150932
	278613	led bulbs 18w returned	001-8050-350.1061	SUPPLIES - GARAGE	0.00	-34.18	150932
	278614	bulbs LED 18w (2)	001-8050-350.1061	SUPPLIES - GARAGE	0.00	19.98	150932
					0.00	31.43	
14158 NEW ENGLAND TRUCK TIRE CTR INC							
	149550-09	tire service/mount/tubes	001-8050-320.0740	EQUIPMENT MAINT - STS	0.00	232.00	150933
14134 NORTHEAST DELTA DENTAL							
	11012023	monthly premiums	001-2000-240.0018	DENTAL PAYABLE	0.00	2,052.45	150934
	11012023	monthly premiums	002-8220-110.0153	DENTAL INS	0.00	99.66	150934
	11012023	monthly premiums	003-8300-110.0153	DENTAL INSURANCE	0.00	144.98	150934
	11012023	monthly premiums	001-9020-110.0153	DENTAL INSURANCE	0.00	2,264.00	150934
	11012023	monthly premiums	001-9020-110.0153	DENTAL INSURANCE	0.00	33.22	150934
	11012023	monthly premiums	003-8330-110.0153	DENTAL INSURANCE	0.00	132.88	150934
	11012023	monthly premiums	002-8200-110.0153	DENTAL INS	0.00	144.64	150934
					0.00	4,871.83	
14055 NORWAY & SONS INC							
	19295	re-hang 8ft LED light	001-8050-320.0727	BLDG & GROUNDS MAINT	0.00	60.00	150935

By check number for check acct 01(GENERAL FUND) and check dates 11/01/23 thru 11/01/23

Vendor PO Number	Invoice Number	Invoice Description	Account Number	Account Description	PO Amount	Invoice Amount	Check
15020 O'REILLY AUTOMOTIVE INC							
	5666-321713	gasket	001-8050-320.0740	EQUIPMENT MAINT - STS	0.00	4.73	150936
16077 PERSHING LLC							
	PR-11012023	PR-week ending 10/27/23	001-2000-240.0006	ANNUITY PAYABLE	0.00	105.00	150937
16003 PIKE INDUSTRIES INC							
	1255622	asphalt-n main/john/woodl	001-9332-360.1329	JULY 23 FLOOD EXPENSES	0.00	2,492.49	150938
	1255622	asphalt-n main/john/woodl	001-8050-360.1172	BITUMINOUS HOT MIX-STS	0.00	506.30	150938
	1255622	asphalt-n main/john/woodl	002-8200-320.0755	SERVICES MAINT (CURBS)	0.00	415.83	150938
	1255622	asphalt-n main/john/woodl	001-8050-360.1173	BITUMINOUS HOT MIX-SS	0.00	830.83	150938
	1256346	potholes/prospect & main	002-8200-320.0750	MAIN LINE MAINT	0.00	830.00	150938
	1256346	potholes/prospect & main	001-8050-360.1172	BITUMINOUS HOT MIX-STS	0.00	584.32	150938
	1256745	stone/boynton st washout	001-9332-360.1329	JULY 23 FLOOD EXPENSES	0.00	223.30	150938
					0.00	5,883.07	
16141 PROFESSIONAL VEHICLE CORP							
	40102	on/off green indicator	001-6040-320.0720	CAR/TRUCK MAINT	0.00	40.00	150939
16102 PRUDENTIAL RETIREMENT							
	PR-11012023	PR week ending 11/27/23	001-2000-240.0006	ANNUITY PAYABLE	0.00	816.09	150991
	PR-110123	PR week ending 10/27/23	001-2000-240.0006	ANNUITY PAYABLE	0.00	493.76	150991
					0.00	1,309.85	
17005 QUADIENT LEASING USA INC							
	Q1044241	postage machine lease	002-8200-350.1053	OFFICE SUPPLIES/EQUIPMENT	0.00	439.99	150992
	Q1044241	postage machine lease	001-5010-350.1053	OFFICE SUPPLIES	0.00	439.99	150992
	Q1044241	postage machine lease	003-8300-350.1053	OFFICE SUPPLIES/EQUIPMENT	0.00	439.99	150992
					0.00	1,319.97	
17002 QUILL CORP							
	35010800	return -chair mat	001-5010-350.1053	OFFICE SUPPLIES	0.00	-128.74	150993
	35010800A	chair mat	001-5010-350.1053	OFFICE SUPPLIES	0.00	128.74	150993
	35251419	printer ink/rubber bands	003-8300-350.1053	OFFICE SUPPLIES/EQUIPMENT	0.00	3.74	150993
	35251419	printer ink/rubber bands	002-8200-350.1053	OFFICE SUPPLIES/EQUIPMENT	0.00	3.75	150993
	35251419	printer ink/rubber bands	001-5010-350.1053	OFFICE SUPPLIES	0.00	57.95	150993
					0.00	65.44	
18148 R K MILES							
	56460/7	sand bag/press pine/wood	001-8050-350.1065	SUPPLIES - STS	0.00	53.35	150994
	56460/7	sand bag/press pine/wood	001-9332-360.1329	JULY 23 FLOOD EXPENSES	0.00	104.58	150994
					0.00	157.93	
18230 RICH RICK OR CITY OF BARRE							
	10062023	delinquent tax refund	001-2000-200.0214	REFUND OVERPAYMENT-T/C	0.00	30.02	150995

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Vendor PO Number	Invoice Number	Invoice Description	Account Number	Account Description	PO Amount	Invoice Amount	Check
18231 ROSSI ALBA							
	10232023	ambulance refund/insur	001-1000-120.0139	AMBULANCE A/R	0.00	96.58	150996
19210 S D IRELAND CONCRETE CONSTRUCTION							
	106363	sw main st/woodland dr	001-9332-360.1329	JULY 23 FLOOD EXPENSES	0.00	1,169.00	150997
	106363	sw main st/woodland dr	001-8050-360.1175	CONCRETE - SW	0.00	501.00	150997
					0.00	1,670.00	
19418 SANEL NAPA - BARRE							
	391488	oil filters/oil	001-6040-320.0720	CAR/TRUCK MAINT	0.00	46.86	150999
19102 SECURSHRED							
	439179	bin colllections/main-aud	001-5040-130.0185	SECURE SHRED	0.00	84.00	151000
18072 SEWELL GREGORY OR CITY OF BARRE							
	10112023	delinquent tax refund	001-2000-200.0214	REFUND OVERPAYMENT-T/C	0.00	259.32	151001
19446 SHOFNER, KRISTOPHER & ANNISSA							
	10032023	refund OP / Delinq W&S	002-2000-200.0214	REFUND OVERPAYMENT-T/C	0.00	42.71	151002
19121 SKIDMORE KIARA OR CITY OF BARRE							
	10062023	refund- delinquent taxes	001-2000-200.0214	REFUND OVERPAYMENT-T/C	0.00	15.14	151003
19129 SLACK CHEMICAL CO INC							
	462162	sodium permanganate	002-8220-320.0767	SODIUM PERMANGANATE	0.00	16,725.39	151004
19431 STITZEL PAGE & FLECHER PC							
	77599	legal services//StMonica	001-5030-120.0170	PROF SERVICES - CITY ATT	0.00	4,134.60	151005
19146 STOWE PEST CONTROL LLC							
	57863	rodent control/15 4th st.	001-7035-320.0727	BLDG & GROUNDS MAINT	0.00	90.00	151006
19079 STRYKER SALES CORP							
	9204812447	service Stair Pro	001-6040-350.1054	MEDICAL SUPPLIES	0.00	130.00	151007
19415 SUNBELT RENTALS INC							
	145484174	skidsteer loader bucket	002-8220-320.0727	BLDG & GROUNDS MAINT	0.00	2,222.36	151008
20002 TIMES ARGUS ASSOC INC							
	209268	council agenda ad10/23/23	001-5010-230.0510	ADVERTISING/PRINTING	0.00	262.60	151009
21002 UNIFIRST CORP							
	70269973	uniforms/clothing	002-8200-340.0940	CLOTHING	0.00	82.63	151010
	70269973	uniforms/clothing	001-8050-320.0743	TRUCK MAINT - STS	0.00	121.28	151010
	70269973	uniforms/clothing	003-8300-340.0940	CLOTHING	0.00	82.63	151010
	70269973	uniforms/clothing	001-8050-340.0940	CLOTHING	0.00	266.62	151010
	70269974	uniforms/clothing	001-8500-340.0940	CLOTHING	0.00	32.47	151010

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Vendor PO Number	Invoice Number	Invoice Description	Account Number	Account Description	PO Amount	Invoice Amount	Check
	70269974	uniforms/clothing	001-7030-340.0940	CLOTHING	0.00	79.20	151010
	70269974	uniforms/clothing	001-7020-340.0940	CLOTHING	0.00	43.90	151010
	70269974	uniforms/clothing	001-7030-340.0940	CLOTHING	0.00	33.65	151010
	70269974	uniforms/clothing	001-7015-340.0940	CLOTHING	0.00	15.92	151010
	70269975	uniforms/clothing	003-8330-320.0743	TRUCK MAINT	0.00	18.16	151010
	70269975	uniforms/clothing	003-8300-340.0940	CLOTHING	0.00	55.70	151010
	70269975	uniforms/clothing	003-8330-340.0940	CLOTHING	0.00	32.44	151010
	70269976	uniforms/clothing	002-8220-340.0940	CLOTHING	0.00	80.81	151010
					0.00	945.41	
21010 UNITED STEELWORKERS							
	PR-10042023	PR week ending 9/29/23	001-2000-240.0007	UNION DUES PAYABLE	0.00	177.71	151012
	PR-10182023	PR week ending 10/13/23	001-2000-240.0007	UNION DUES PAYABLE	0.00	175.53	151012
	PR-10252023	PR week ending 10/20/23	001-2000-240.0007	UNION DUES PAYABLE	0.00	324.09	151012
					0.00	677.33	
21017 UNUM LIFE INS CO OF AMERICA							
	10012023A	monthly premium/metivier	001-9020-110.0152	LIFE INSURANCE	0.00	925.40	151013
	11012023	monthly premium	001-2000-240.0017	LIFE PAYABLE	0.00	1,287.79	151013
	11012023	monthly premium	002-8220-110.0152	LIFE INS	0.00	140.28	151013
	11012023	monthly premium	003-8330-110.0152	LIFE INSURANCE	0.00	182.16	151013
	11012023	monthly premium	003-8300-110.0152	LIFE INSURANCE	0.00	197.08	151013
	11012023	monthly premium	001-9020-110.0152	LIFE INSURANCE	0.00	3,419.40	151013
	11012023	monthly premium	002-8200-110.0152	LIFE INS	0.00	242.92	151013
	11012023	monthly premium	001-9020-110.0152	LIFE INSURANCE	0.00	44.96	151013
					0.00	6,439.99	
21032 US ARENA SUPPLY							
	10202023	(20)bags white ice paint	001-7030-350.1053	SUPPLIES/EQUIPMENT	0.00	2,357.00	151014
22181 VERMONT COMMERCIAL REFRIGERATION L							
	1133	BOR-start refrig season	001-7030-320.0727	BLDG/GROUNDS MAINT	0.00	1,750.00	151015
22127 VERMONT STATE TREASURER							
	10172023	marriage lic VT fees-qtr	001-2000-200.0211	MARRIAGE LICENSES	0.00	1,365.00	151016
22025 VLCT							
	0478	MAC Training	001-5010-130.0184	CITY COUNCIL'S EXPENSES	0.00	425.00	151017
22095 VMERS DB							
	PR-10042023	PR week ending 9/29/23	001-2000-240.0005	EMPLOYEE PENSION PAYABLE	0.00	11,935.55	151018
	PR-10182023	PR week ending 10/13/23	001-2000-240.0005	EMPLOYEE PENSION PAYABLE	0.00	12,524.64	151018
	PR-10252023	PR week ending 10/20/23	001-2000-240.0005	EMPLOYEE PENSION PAYABLE	0.00	12,703.56	151018
					0.00	37,163.75	
22017 VRPA							
	02572A	VRPA membership renewal	001-7050-220.0413	DUES/MEMBERSHIP FEES	0.00	100.00	151019

By check number for check acct 01(GENERAL FUND) and check dates 11/01/23 thru 11/01/23

Vendor PO Number	Invoice Number	Invoice Description	Account Number	Account Description	PO Amount	Invoice Amount	Check
23003 WASHINGTON COUNTY TREASURER							
	11052023	washington county tax	001-9110-220.0422	WASHINGTON COUNTY TAX	0.00	20,773.00	151020
23192 WIND RIVER ENVIRONMENTAL LLC							
	6062771	Hi-Vac truck/full day	003-9332-360.1329	JULY 23 FLOOD EXPENSES	0.00	2,242.00	151021
	6064357	Hi-Vac truck/full day	003-9332-360.1329	JULY 23 FLOOD EXPENSES	0.00	2,242.00	151021
	6071002	hi-Vac truck/full day	003-9332-360.1329	JULY 23 FLOOD EXPENSES	0.00	2,242.00	151021
	6071003	Hi-Vac truck/full day	003-9332-360.1329	JULY 23 FLOOD EXPENSES	0.00	2,242.00	151021
	6071005	Hi-Vac truck/full day	003-9332-360.1329	JULY 23 FLOOD EXPENSES	0.00	2,242.00	151021
					0.00	11,210.00	
25008 YOUNG, AUTHUR							
	10262023	lic renewal/ code update	001-6040-220.0413	DUES/MEMBERSHIP FEES	0.00	340.00	151022
14017 NATIONAL FRATERNAL ORDER OF POLICE							
	PR-11012023	PR week ending 10/27/23	001-2000-240.0007	UNION DUES PAYABLE	0.00	358.72	150931
			Report Total			273,122.18	

To the Treasurer of City of Barre, We Hereby certify that there is due to the several persons whose names are listed hereon the sum against each name and that there are good and sufficient vouchers supporting the payments aggregating $ ***273,122.18
Let this be your order for the payments of these amounts.

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By check number for check acct 01(GENERAL FUND) and check dates 10/31/23 thru 10/31/23

Vendor PO Number	Invoice Number	Invoice Description	Account Number	Account Description	PO Amount	Invoice Amount	Check
17010 QUADIENT FINANCE USA INC							
	10032023	Postage	001-5010-360.1163	POSTAGE FOR METER	0.00	1,000.00	E381
						1,000.00	
			Report Total			1,000.00	

To the Treasurer of City of Barre, We Hereby certify that there is due to the several persons whose names are listed hereon the sum against each name and that there are good and sufficient vouchers supporting the payments aggregating $ *****1,000.00
Let this be your order for the payments of these amounts.

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Client ID: 22BA
Client Name: City of Barre

WARRANT REPORT

City of Barre

Report As of Date:
11/1/2023

#	Employee	Gross	FWT	FICA	MEDI	SWT	SDI	ERFICA	ERMEDI
1	Abare, Lance R.	1,078.00	58.97	61.71	14.43	21.22	0.00	61.71	14.43
3	Aldsworth, Joseph G.	1,781.20	201.89	98.82	23.11	68.49	0.00	98.82	23.11
5	Avery, Carroll A.	1,242.97	79.17	72.37	16.93	32.72	0.00	72.37	16.93
163	Baker, Brian L	2,016.00	138.30	122.92	28.75	55.09	0.00	122.92	28.75
6	Baril, James A.	2,026.57	240.92	113.73	26.59	73.20	0.00	113.73	26.59
7	Benjamin, Kenneth S.	1,105.99	111.10	67.20	15.71	34.25	0.00	67.20	15.71
8	Bennington, William A.	2,082.30	248.40	126.47	29.58	80.20	0.00	126.47	29.58
9	Benson, Nicholas J.	1,905.89	251.23	115.79	27.08	76.29	0.00	115.79	27.08
10	Bergeron, Jeffrey R.	1,814.88	111.12	109.05	25.50	35.77	0.00	109.05	25.50
11	Blackshaw, Brook W.	2,227.10	194.88	134.76	31.52	68.28	0.00	134.76	31.52
122	Bombardier, Timothy	1,416.66	199.21	87.83	20.54	75.68	0.00	87.83	20.54
14	Bramman, Kathryn H.	1,173.60	124.06	71.78	16.78	37.44	0.00	71.78	16.78
155	Brault, Marcel T	930.15	82.72	57.67	13.49	22.28	0.00	57.67	13.49
17	Brown, Anderson C.	2,346.73	385.35	144.52	33.80	135.36	0.00	144.52	33.80
19	Bullard, Don A.	1,269.61	169.86	78.72	18.41	52.98	0.00	78.72	18.41
21	Carminati Jr., Joel F.	1,054.00	36.75	61.67	14.42	23.37	0.00	61.67	14.42
179	Cassani II, Mario E	874.80	60.88	53.48	12.51	21.73	0.00	53.48	12.51
22	Cetin, Matthew J.	1,431.36	92.69	79.89	18.69	30.98	0.00	79.89	18.69
23	Charbonneau, Michael J.	2,837.16	407.68	164.15	38.39	122.31	0.00	164.15	38.39
24	Chase, Sherry L.	1,048.00	81.97	57.26	13.39	25.19	0.00	57.26	13.39
25	Clark, Kailyn C.	1,218.79	93.61	75.56	17.67	38.57	0.00	75.56	17.67
26	Collins, April M.	880.00	60.14	53.11	12.42	24.64	0.00	53.11	12.42
27	Copping, Nicholas R.	2,255.34	290.89	129.40	30.26	88.18	0.00	129.40	30.26
28	Cruger, Eric J.	2,052.68	263.92	120.39	28.16	80.09	0.00	120.39	28.16
29	Cushman, Brian K.	2,047.60	159.16	118.54	27.72	50.20	0.00	118.54	27.72
31	Dawes, Carolyn S.	1,377.20	137.76	80.87	18.91	41.55	0.00	80.87	18.91
33	Degreenia, Catherine I	2,194.08	336.72	130.28	30.47	100.80	0.00	130.28	30.47
34	Demell, William M.	1,191.05	112.37	67.88	15.88	34.63	0.00	67.88	15.88
173	DeRose, TJ T	1,376.00	176.38	83.81	19.60	60.83	0.00	83.81	19.60
35	Dexter, Donnel A.	1,382.40	164.34	78.01	18.24	50.22	0.00	78.01	18.24
36	Dodge, Shawn M.	996.40	74.60	61.03	14.27	28.67	0.00	61.03	14.27
38	Drown, Jacob D.	1,956.00	290.09	120.88	28.27	87.95	0.00	120.88	28.27
39	Durgin, Steven J.	1,539.60	143.16	85.88	20.08	43.87	0.00	85.88	20.08
40	Eastman Jr., Larry E.	1,902.00	226.82	108.88	25.47	68.96	0.00	108.88	25.47
42	Farnham, Brian D.	1,958.88	259.57	118.51	27.72	78.79	0.00	118.51	27.72
43	Fecher, Jesse T.	1,175.29	87.07	71.88	16.81	34.98	0.00	71.88	16.81
44	Fleury, Jason R.	1,927.08	239.41	109.36	25.57	72.74	0.00	109.36	25.57
157	French, Richard B	1,021.60	72.47	63.34	14.81	25.34	0.00	63.34	14.81
45	Frey, Jacob D.	2,297.94	272.36	134.73	31.51	81.23	0.00	134.73	31.51
46	Gaylord, Amos R.	2,351.00	349.61	145.76	34.09	104.89	0.00	145.76	34.09

Client ID: 22BA
Client Name: City of Barre

WARRANT REPORT

City of Barre

Report As of Date:
11/1/2023

#	Employee	Gross	FWT	FICA	MEDI	SWT	SDI	ERFICA	ERMEDI
47	Gilbert, David P.	1,082.00	105.31	65.48	15.31	32.51	0.00	65.48	15.31
48	Grandfield, Heather L.	1,083.20	95.47	62.54	14.62	39.78	0.00	62.54	14.62
49	Guyette, Brandon L.	1,338.59	110.95	78.30	18.31	45.12	0.00	78.30	18.31
50	Hastings III, Clark H.	950.01	85.61	56.29	13.17	26.21	0.00	56.29	13.17
156	Hayden, Gregory William	1,120.33	100.09	67.72	15.83	26.99	0.00	67.72	15.83
52	Hedin, Laura T.	1,363.20	130.56	79.95	18.70	39.39	0.00	79.95	18.70
54	Herring, Jamie L.	1,244.69	55.28	76.42	17.87	28.85	0.00	76.42	17.87
55	Hoar, Brian W.	2,150.07	123.91	123.08	28.78	48.01	0.00	123.08	28.78
56	Houle, Jonathan S.	1,839.08	238.16	112.88	26.40	72.36	0.00	112.88	26.40
58	Hoyt, Everett J.	1,236.00	85.01	70.64	16.52	38.84	0.00	70.64	16.52
167	Isabelle, Pierre D	420.00	34.05	26.04	6.09	11.82	0.00	26.04	6.09
181	Jacobs, Adam	630.00	39.41	39.06	9.13	18.85	0.00	39.06	9.13
59	Kelly Jr, Joseph E.	1,142.00	37.91	60.87	14.24	14.38	0.00	60.87	14.24
184	Kirby, Kristopher J	1,000.00	39.87	61.55	14.39	24.41	0.00	61.55	14.39
61	Kosakowski, Joshua D.	1,288.00	142.80	76.83	17.97	43.76	0.00	76.83	17.97
174	Kuras, Sarah V	1,043.20	92.85	63.70	14.90	28.23	0.00	63.70	14.90
165	LaBarge-Burke, Michelle J	1,060.00	80.06	64.09	14.99	31.12	0.00	64.09	14.99
62	Lane, Zebulyn M.	1,341.36	160.81	82.10	19.20	49.16	0.00	82.10	19.20
172	Larrabee, David M	1,017.60	91.30	59.48	13.91	27.80	0.00	59.48	13.91
63	Lewis, Brittany L.	1,976.73	234.08	120.03	28.07	71.14	0.00	120.03	28.07
64	Lowe, Robert L.	1,302.80	115.86	70.30	16.44	36.29	0.00	70.30	16.44
65	Machia, Delphia L.	1,039.20	92.29	64.00	14.97	28.07	0.00	64.00	14.97
68	Maloney, Jason F.	1,939.50	180.20	115.12	26.92	61.77	0.00	115.12	26.92
168	Markham, Clifton C	640.00	35.54	39.68	9.28	14.65	0.00	39.68	9.28
70	Martel, Joell J.	1,244.00	123.40	71.81	16.79	37.94	0.00	71.81	16.79
171	Martineau, Brenda J	1,023.20	95.82	61.83	14.46	29.06	0.00	61.83	14.46
71	McGowan, James R.	2,793.35	473.46	169.17	39.56	127.31	0.00	169.17	39.56
73	Metivier, Cheryl A.	1,142.40	107.94	66.44	15.54	33.30	0.00	66.44	15.54
75	Monahan, Dawn M.	2,202.00	188.34	127.70	29.86	66.25	0.00	127.70	29.86
77	Morris, Scott D.	3,500.54	390.77	217.03	50.76	163.44	0.00	217.03	50.76
78	Morrison, Camden A.	1,151.22	98.18	67.20	15.72	30.17	0.00	67.20	15.72
79	Morse, Bradley P.	152.40	0.00	9.45	2.21	2.85	0.00	9.45	2.21
80	Mott, John C.	441.68	36.66	27.39	6.41	12.54	0.00	27.39	6.41
81	Murphy, Brieanna E.	3,380.47	356.41	209.58	49.02	109.84	0.00	209.58	49.02
164	Murphy, Michael T	937.60	89.27	58.13	13.60	24.11	0.00	58.13	13.60
82	Noack, Rodney	797.12	48.22	46.64	10.91	21.31	0.00	46.64	10.91
85	Parker, Rowdie Y.	1,008.00	109.31	62.49	14.62	33.71	0.00	62.49	14.62
152	Pike, Roxanne L	848.00	58.22	52.00	12.17	24.10	0.00	52.00	12.17
183	Placey-Noyes, Tyler C	907.61	66.05	56.27	13.16	26.29	0.00	56.27	13.16
88	Poirier, Holden R.	1,753.68	225.04	107.35	25.10	68.43	0.00	107.35	25.10

Client ID: 22BA
Client Name: City of Barre

WARRANT REPORT

City of Barre

Report As of Date:
11/1/2023

#	Employee	Gross	FWT	FICA	MEDI	SWT	SDI	ERFICA	ERMEDI
89	Pouliot, Brooke L.	1,157.20	87.74	71.75	16.78	29.60	0.00	71.75	16.78
90	Pretty, Alyssa A.	1,406.72	125.82	87.22	20.40	49.58	0.00	87.22	20.40
91	Protzman, Todd A.	575.00	42.73	35.65	8.34	13.88	0.00	35.65	8.34
93	Pullman, David L.	928.00	76.37	56.55	13.23	23.27	0.00	56.55	13.23
94	Quaranta, Stephanie L.	1,534.40	211.81	84.34	19.73	58.96	0.00	84.34	19.73
95	Reale, Michael R.	1,277.20	136.92	79.18	18.52	41.99	0.00	79.18	18.52
97	Rivard, Sylvie R	1,052.00	100.22	63.93	14.95	30.99	0.00	63.93	14.95
99	Rubalcaba, David T.	1,869.84	246.59	114.23	26.72	74.90	0.00	114.23	26.72
100	Russell, Paula L.	1,286.00	51.79	73.12	17.10	27.88	0.00	73.12	17.10
101	Ryan, Patty L.	1,386.40	131.86	85.95	20.10	58.39	0.00	85.95	20.10
103	Seaver, Debbie L.	1,120.00	135.23	59.94	14.01	45.99	0.00	59.94	14.01
104	Shatney, Janet E.	1,606.40	115.71	93.03	21.76	37.05	0.00	93.03	21.76
105	Smith, Clint P.	1,163.60	113.19	68.72	16.07	34.18	0.00	68.72	16.07
151	Smith, Michael P	1,029.21	25.27	57.99	13.56	11.78	0.00	57.99	13.56
106	Southworth, Norwood J.	1,185.60	169.74	72.76	17.02	74.84	0.00	72.76	17.02
185	Stanley, Gavin P	874.80	62.35	54.23	12.68	25.26	0.00	54.23	12.68
148	Storellicastro, Nicolas R	2,410.68	227.59	149.46	34.95	69.65	0.00	149.46	34.95
110	Strassberger, Kirk E.	1,723.80	128.20	100.28	23.45	40.90	0.00	100.28	23.45
111	Taft, Francis R.	1,600.00	186.49	95.40	22.31	56.86	0.00	95.40	22.31
112	Tillinghast, Zachary M.	2,752.20	411.35	164.51	38.47	123.47	0.00	164.51	38.47
113	Tucker, Randall L.	2,141.12	252.03	122.77	28.71	75.83	0.00	122.77	28.71
114	Tucker, Russell W.	1,315.55	120.78	74.05	17.32	32.34	0.00	74.05	17.32
115	Vail, Braedon S.	2,143.60	155.03	132.45	30.97	86.10	0.00	132.45	30.97
116	Ward, James O.	40.00	0.00	2.48	0.58	0.00	0.00	2.48	0.58
180	Webster, James P	1,012.80	86.45	62.05	14.51	39.19	0.00	62.05	14.51
186	Young, Arthur D	1,300.00	74.06	80.60	18.85	34.09	0.00	80.60	18.85
REPORT TOTAL		**153,186.85**	**15,537.39**	**9,127.16**	**2,134.54**	**5,157.09**	**0.00**	**9,127.16**	**2,134.54**

City of Barre, Vermont

"Granite Center of the World"

CITY COUNCIL AGENDA ITEM
CITY COUNCIL AGENDA: 11/7/2023

Consent Item No.: 4-E

AGENDA ITEM DESCRIPTION: Accept assistance through the Municipal Technical Assistance Program

SUBMITTING DEPARTMENT/PERSON: Manager Storellicastro

STAFF RECOMMENDATION: Accept assistance from this state program

BACKGROUND INFORMATION:
On October 27, 2023, the City of Barre was notified by the Central Vermont Regional Planning Commission (CVRPC) that we were preapproved to receive assistance through the **Municipal Technical Assistance Program (MTAP)**. Assistance through this program is free and no application is required – the only requirement is that legislative body of the City must accept the assistance through a warned agenda item of a regular meeting.

There are multiple uses of this program that could be of benefit to Barre City, including:

- ***Community needs assessment.*** Conducting a review of community assets and needs, strategic planning, and identifying potential eligible projects in collaboration with the municipality.
- ***Opportunity assessment.*** Assessing the technical assistance and funding available from State, federal, and private sources; evaluating eligibility and compliance requirements; and conducting a feasibility analysis of whether the municipality has, or can develop, the capacity to complete a project and meet applicable requirements.
- ***Application and permit assistance.*** Providing technical and administrative assistance with completing funding applications, permit applications, and satisfying initial regulatory requirements.
- ***Project management and implementation.*** Providing ongoing support to successful grant recipients with project management, funding program implementation, funding program compliance, and administrative and regulatory compliance through project completion.
- ***Other capacity-building activities***. Providing additional assistance, subject to approval by the State, to advance priority projects identified by municipalities.

Eligible project types for the activities identified above:

- Water supply and wastewater infrastructure;
- Housing;
- Community recovery, workforce development, and business support;
- Climate change mitigation and resilience; and
- Other community economic development projects identified by a municipality and approved by the State.

EXPENDITURE REQUIRED AND FUNDING SOURCE: None to the City

LEGAL AUTHORITY/REQUIREMENTS: N/A

RECOMMENDED ACTION/MOTION:

Move to accept assistance through the Municipal Technical Assistance Program.

City of Barre, Vermont

"Granite Center of the World"

CITY COUNCIL AGENDA ITEM
CITY COUNCIL AGENDA: 11/7/2023

Consent Item No.: 4-F

AGENDA ITEM DESCRIPTION: Authorize the Manager to execute a 10-year $416,345.67 contract with Axon and ratify acceptance of a federal $22,000 grant to support implementation

SUBMITTING DEPARTMENT/PERSON: Police Chief Vail

STAFF RECOMMENDATION: Authorize execution of the contract and ratify acceptance of the grant.

BACKGROUND INFORMATION:

The Barre City Police Department has not previously had a body worn camera program and is possibly one of only a few agencies in the state that does not utilize them. Use of cameras is a best practice that will aid in the collection of evidence, enhance officer and resident safety, and improve law enforcement interactions with the public in a transparent manner.

The City has decided to procure a "bundle" package from Axon to include body cameras and tasers. This will allow for a cost savings and replaces the current taser contract. The proposed contract is a ten-year contract for cameras, tasers and data storage with equipment refresh periods within the ten years. The contract does contain a non-appropriation clause.

We applied for and have been awarded a federal grant for body worn cameras through the Small, Rural and Tribal (SRT) law enforcement micro grant program. Barre City is one of only two agencies in Vermont that was awarded the grant out of 265 across the country. This grant will provide $22,000 towards Year 1 implementation of the body worn camera program.

In addition, the Department has also applied for a state body worn camera grant. The Department of Public Safety secured $210,000 to assist Vermont agencies with starting or expanding body camera programs. We are awaiting notification of any award under that program. Any further awards received will be used to offset general fund expenditures, as allowed by grant rules.

The Department is planning to begin purchasing and implementation this year.

EXPENDITURE REQUIRED AND FUNDING SOURCE: $22,000 SRT grant award, $394,345.67 in general fund resources post grant award

LEGAL AUTHORITY/REQUIREMENTS: City of Barre Procurement Policy, Small, Rural, Tribal Grant Program, State of Vermont mandated Body Worn Camera Policy

ATTACHMENTS: SRT grant award notification, Grant Management Policy Form, Axon contract quote

RECOMMENDED ACTION/MOTION:

Move to authorize the Manager to execute a 10-year $416,345.67 contract with Axon for body worn cameras, and ratify acceptance of the federal SRT body camera grant to support Year 1 implementation.

Supporting Small, Rural, and Tribal Law Enforcement Agency Body-Worn Camera Policy and Implementation Program

SUBAWARD ("MICRO-GRANT") AGREEMENT BETWEEN
Barre Police Department
And

Justice & Security Strategies, Inc.

SUBAWARD INFORMATION	
Name:	Barre Police Department
Address:	15 Fourth Street Barre, VT 05641
Award Number	45964459
Federal Identification Number	03-6000356
Micro-grantee UEI	HG4DLHDB7YL3
Program Period: Start Date - End Date	01/01/2023-12/31/2025
Total Amount of the Federal Award	$ 22,000.00
Match Amount	$ 22,000.00

By signing this document, you agree to accept and comply with the award requirements including award conditions, assurances and certifications that were presented within the application portal and the associated attachments, as well as any additional requirements or conditions imposed subsequent to the program start date of this award by DOJ, OJP or JSS on Barre Police Department. These conditions apply during the project period. These requirements encompass financial, administrative, and programmatic matters, including specific restrictions on use of funds in the approved budget. In addition to the specified award conditions, the micro-grantee also agrees to abide by the general Federal award conditions accepted by the prime award agency, Justice & Security Strategies, Inc. which can be found at the following link: https://www.srtbwc.com/wp-content/uploads/2022/03/SRT-BWC-Micro-Grantee-Award-Special- Conditions.pdf.

Should Barre Police Department accept the award and then fail to comply with an award requirement, JSS, on behalf of DOJ, will pursue appropriate remedies for non-compliance, which may include termination of the award and/or a requirement to repay award funds.

AGENCY APPROVAL	SUBRECIPIENT ACCEPTANCE
Dr. Shellie Solomon, CEO, Justice & Security Strategies, Inc. 1835 E Hallandale Beach Blvd #387, Hallandale Beach, FL 33009 info@srtbwc.com, 888-235-0565	Typed Name and Title of Authorized Subrecipient Official
Signature of Approving Official	Signature of Authorized Subrecipient Official
Date:	Date:

Federal Award Number: 2020-BC-BX-K001, October 1, 2020, C.F.D.A. No: 16.835. **Federal Award Project Description:** The Fiscal Year 2020 Supporting Small and Rural Agency Body-Worn Camera Policy and Implementation Program (SRA-BWC) will provide funding and program development support to small and rural agencies that intend to initiate expanded body-worn camera programs. The provider will be responsible for designing and administering a competitive funding solicitation that distributes micro-grants to qualified small and rural agencies to implement a body-worn camera program. They will also identify the needs of micro-grantee agencies and deliver standard and customized training and technical assistance (TTA) to those agencies. This is not a research and development grant.

This project was supported by Grant No. 2020-BC-BX-K001 awarded by the Bureau of Justice Assistance. The Bureau of Justice Assistance is a component of the Department of Justice's Office of Justice Programs, which also includes the Bureau of Justice Statistics, the National Institute of Justice, the Office of Juvenile Justice and Delinquency Prevention, the Office for Victims of Crime, and the SMART Office. Points of view or opinions in this document are those of the author and do not necessarily represent the official position or policies of the U.S. Department of Justice.

Attachment A: Award Specific Requirements

1) **Body-worn Camera ("BWC") Policy Review Required in Order to Receive Funding:** Micro-grantee is required to successfully demonstrate that they have developed BWC policies that are purposeful, comprehensive, and deliberately designed and acceptable to DOJ's Office of Justice Programs (OJP) and JSS. All funding except 10% of the total award amount under this micro-grant will be held until Micro-grantee's BWC policy is approved in writing by JSS.

   a) If Micro-grantee already developed a BWC policy, JSS must review and approve the policy, and Micro-grantee's executive officers must certify that their policy was developed in a comprehensive, deliberate, and planned manner, and is consistent with relevant state laws; or

   b) If Micro-grantee has not yet developed a BWC policy, Micro-grantee must develop a BWC policy as a condition of this micro-grant. Micro-grantee must work with JSS to ensure that policy development is purposeful, comprehensive and deliberate.

2) **Monthly Reporting Required:** In order to be eligible for reimbursement under this micro-grant, Micro-grantee will be required to submit monthly reports, as well as a final report after the project end date, through the online micro-grant portal no later than dates to be specified by JSS. These reports will require submission of both financial and programmatic information. Micro-grantee must collect and maintain data concerning the work performed under this micro-grant in a manner and timeframes specified by JSS. The financial and programmatic data elements, outputs and outcomes will be outlined by JSS in the online micro-grant portal for this program.

3) **Budget and spending restrictions:** In addition to all restrictions in funding previously communicated to Micro-grantee, specified in the solicitation or budget submission form for this micro-grant, outlined in the special conditions below, or specified in applicable federal law and regulations, Micro-grantee may not use funds from this micro-grant to pay for:

   a) Costs associated conferences, including but not limited to costs for hosting, developing, sponsoring, or attending conferences. Important note: Conferences are defined by DOJ to mean "a meeting, retreat, seminar, symposium, workshop or event whose primary purpose is the dissemination of technical information beyond the non-Federal entity."

   b) Data storage costs. However, BJA and JSS recognize that BWC systems are often bundled or sold as software-as-a-service (SaaS) with no line-item distinction of data storage costs; therefore, procurements with bundled costs (specifically no line-item storage costs) are permissible for reimbursement, and the agency will not be asked to break out the costs.

   c) Costs associated with a website, including software development, updating, programming, design, or otherwise any website-related expense.

   d) Any consultant rate in excess of $650 per day unless approved in writing by JSS prior to expenditure.

4) **Audit and monitoring:**

   a) Should Micro-grantee's audit, if applicable, under Part 2 CFR 200 or related regulations contain findings related to this micro-grant, Micro-grantee understands all payments under this micro-grant may stop until those findings are resolved in a manner approved by JSS.

   b) Micro-grantee agrees to comply with all micro-grant monitoring guidelines, protocols, and procedures, and to cooperate with JSS and BJA (including its Office of the CFO) on all grant and program monitoring requests, including:
      i. Requests related to desk reviews, enhanced programmatic desk reviews, and/or site visits.
      ii. Providing all documentation requested or otherwise necessary to complete monitoring tasks, by the deadlines set by JSS or BJA.

   Failure to cooperate with BJA's or JSS's grant monitoring activities may result in sanctions affecting Micro-grantee's DOJ awards, including, but not limited to: withholdings and/or other restrictions on access to this or other grant funds; termination of this or other grant awards, referral to the Office of the Inspector General for audit review; designation of Micro-grantee as a DOJ High Risk grantee.

5) **Close-out:** Micro-grantee will comply with all close-out procedures provided by JSS and submit its final report no later than the date specified by JSS during close-out.

Attachment B: Award Specific Requirements

Because your organization's funding (referred to below as a "subgrant" or "micro-grant") utilizes OJP funds, DOJ requires your organization to comply with certain federal legal requirements in addition to the requirements of your Micro-grant Agreement with JSS. These additional requirements are:

1) **Federal rules that apply to this Subgrant:** Micro-grantee is required to comply with the federal rules governing the financial management of federal grants like this Subgrant. These rules are called the Uniform Guidance and can be found at 2 CFR 200. The Uniform Guidance contains requirements about how an organization may spend federal funds, the tracking of receipt and spending of federal funds, and other financial requirements.

   For additional details about these requirements, see the OJP website at https://ojp.gov/funding/Part200UniformRequirements.htm.

   If you have a question or believe there is a conflict between any documents JSS provides you and the Uniform Guidance, contact JSS immediately for clarification.

2) **DOJ Grants Financial Guide:** Micro-grantee agrees to comply with the requirements of the DOJ Grants Financial Guide and any updates made to this document, which is located at: https://www.ojp.gov/sites/g/files/xyckuh241/files/media/document/DOJ_FinancialGuide_1.pdf.

3) **Record retention and access:** All micro-grantee records of any kind that relate to this Subgrant must be kept by your organization for 3 years from the date you submit your final report at the end of the Subgrant. Micro-grantee records that relate to this Subgrant means any document, record, or data or any kind whatsoever concerning this Subgrant. This includes but is not limited to: agreements, contracts, purchase orders, receipts, reports, financial documents, computer data, personnel files, and any other paper or document related to this Subgrant in any way.

   Also, your organization must provide access to these records to JSS, OJP and other federal inspectors and agencies. For more details about this requirement, please see 2 C.F.R. 200.333. The records you must provide access to include performance measurement information about this Subgrant.

   If micro-grantee is eligible and elects to use an indirect cost rate as described in 2 C.F.R. 200.414(f), micro-grantee must advise JSS in writing that it is eligible and elects to use an indirect cost rate. Micro-grantee must comply with all requirements of 2 CFR Part 200 concerning indirect cost rates. The "de minimis" rate may be applied only to modified total direct costs (MTDC) as defined by the Part 200 Uniform Requirements.

4) **Requirement to report potentially duplicative funding:** If micro-grantee currently has other active federal grants, or if micro-grantee receives any other award of federal funds during the period of performance for this micro-grant, micro-grantee promptly must determine whether funds from any of those other federal awards have been, are being, or are to be used (in whole or in part) for one or more of the identical cost items for which funds are provided under this award. If so, micro-grantee must promptly notify the DOJ awarding agency (OJP or OVW, as appropriate) and JSS in writing of the potential duplication, and, if so requested by the DOJ awarding agency or JSS, must seek a grant adjustment modification to eliminate any inappropriate duplication of funding.

5) **Requirement to report breach of confidential information:** Personally Identifiable Information (PII) is information that can be used, by itself or together with other information, to identify someone. The full definition can be found at 2 CFR 200.79. Micro-grantee must have procedures to respond if there is an actual or imminent "breach" of PII if micro-grantee either:

   a) creates, collects, uses, processes, stores, maintains, disseminates, discloses, or disposes of PII within the scope of an OJP grant-funded program or activity, or

   b) uses or operates a "Federal information system," which typically is a database that a federal agency uses.

   As a law enforcement agency, micro-grantee's organization collects and maintains PII. Therefore, micro-grantee must have written procedures on how micro-grantee will respond if there is an actual or imminent breach of PII.

   A breach of PII, as defined in OMB M-17-12, means: The loss of control, compromise, unauthorized disclosure, unauthorized acquisition, or any similar occurrence where (1) a person other than an authorized user accesses or potentially accesses PII or (2) an authorized user accesses or potentially accesses PII for an other than authorized purpose.

Micro-grantee's procedures required by this section must include a requirement to report an actual or imminent breach to JSS within 12 hours of when it occurs. This is required so that JSS can report the breach to OJP within 24 hours as legally required by OJP. Micro-grantee must contact JSS immediately using the method specified by JSS and no later than 12 hours if a breach of PII occurs or is about to occur to make sure this gets reported to OJP within 24 hours as required.

6) **Subgrants:** Micro-grantee is not permitted to award subgrants—also referred to as subawards—with the funds from this Subgrant unless you have written approval from JSS in advance of issuing the subaward.

7) **Procurement rule—cannot discriminate against associates of the federal government:** When buying any goods or services with funds from this micro-grant (this is known as a "procurement transaction"), micro-grantee must not discriminate against any person or business because of their status as an "associate of the federal government" (or because a person or entity is affiliated or owned by such an associate). A person or entity is an "associate of the federal government" if they are engaged or employed (in the past or at present) by or on behalf of the federal government-as an employee, contractor or subcontractor (at any tier), grant recipient or -subrecipient (at any tier), agent, or otherwise-in undertaking any work, project, or activity for or on behalf of (or in providing goods or services to or on behalf of) the federal government, and includes any applicant for such employment or engagement, and any person or entity committed by legal instrument to undertake any such work, project, or activity (or to provide such goods or services) in future.

8) **Human trafficking:** Micro-grantee must comply with all U.S. Department of Justice requirements related to trafficking in persons. This includes, but is not limited to, the requirement micro-grantee and its employees must not engage in:

   a) Severe forms of trafficking in persons

   b) Procurement of a commercial sex act

   c) Use of forced labor in the performance of the Subgrant

   d) Acts that directly support or advance trafficking in persons.

   Examples are included in Section B at this website: https://ojp.gov/funding/explore/prohibitedconduct-trafficking

   Micro-grantee's full obligations related to prohibited conduct in trafficking in persons can be found at that link above and are incorporated here with this reference. Micro-grantee's micro-grant can be terminated immediately for violation of these requirements.

9) **Rules for trainings developed with funds from this micro-grant:** Any training materials micro-grantee develops or delivers with funds from this micro-grant must comply with the Department of Justice OJP training requirements. These requirements include that:

   a) Trainers comply with the law and cannot discriminate.

   b) The content of the training and the materials must be accurate, relevant, useful and well-matched to the purpose of the training.

   c) Trainers must be well-qualified in the subject area.

   d) Trainers must demonstrate highest standards of professionalism.

   Details about these requirements can be found here: https://ojp.gov/funding/Implement/TrainingPrinciplesForGrantees-Subgrantees.html.

10) **Compliance with DOJ Regulations pertaining to civil rights and nondiscrimination:** Equal Employment Opportunity: Micro-grantee must uphold all requirements for an equal employment opportunity organization. This means it must comply with all applicable requirements of 28 CFR Part 42, relating to civil rights and nondiscrimination and includes the requirements for equal employment opportunity programs provided in 28 CFR42 Subpart E if Micro-grantee is required to have such a program.

11) **Civil Rights:** Nondiscrimination on basis of religion: Micro-grantee must comply with all applicable requirements of 28 CFR 38 regarding nondiscrimination on the basis of religion or religious beliefs.

12) **Prohibition on using Subgrant funds for lobbying or influencing government officials:** Micro-grantee may not use any of the funds from this Subgrant for lobbying, whether directly or indirectly. Lobbying means supporting or opposing the enactment, repeal, modification or adoption of any law, regulation or policy at any level of government. See 18 USC 1913 for additional details.

    Also, Micro-grantee may not use any of the funds from this Subgrant to pay any person to influence or attempt to influence any federal agency, member of Congress or any of their employees concerning a federal grant, contract, or any other federal award. There are exceptions, including an exception for tribal organizations. See 31 USC 1352 for details.

    Contact JSS immediately if you have any questions about this section or whether a specific situation falls within these rules.

13) **Duty to report fraud, waste, abuse, and misconduct:** Micro-grantee must promptly report to the DOJ Office of the Inspector General (OIG) any credible evidence that any person (whether they work for your organization or not) has (1) submitted a claim that violates the False Claims Act; or (2) committed a criminal or civil violation of laws of fraud, conflict of interest, bribery, gratuity, or similar misconduct, in connection with funds under this award.

    You can report potential fraud, waste, abuse, or misconduct involving or relating to these Subgrant funds by: (1) online submission accessible via the OIG webpage at https://oig.justice.gov/hotline/contact-grants.htm (select "Submit Report Online"); (2) mail directed to: U.S. Department of Justice, Office of the Inspector General, Investigations Division, ATTN: Micro-grantee Reporting, 950 Pennsylvania Ave., NW, Washington, DC 20530; and/or (3) by facsimile directed to the DOJ OIG Investigations Division (Attn: Micro-grantee Reporting) at (202) 616-9881 (fax). Additional information is available from the DOJ OIG website at https://oig.justice.gov/hotline.

14) **No restriction on reporting fraud, waste or abuse permitted:** Micro-grantee may not require any employee or contractor to sign a confidentiality agreement that restricts or bans reporting of waste, fraud or abuse to a federal agency. This does not apply to the federal Standard Forms 312 or 4414 regarding not disclosing certain classified or sensitive information.

    If JSS learns that micro-grantee is requiring agreements or statements from its employees or contractors that restrict or prohibit reporting of fraud, waste, abuse or misconduct, JSS is required by law to stop all payments under this micro-grant to micro-grantee.

15) **No retaliation for reporting gross mismanagement of federal funds:** Micro-grantee may not retaliate against an employee for the employee's disclosure of information related to gross mismanagement of a federal grant, a gross waste of federal funds, an abuse of authority relating to a federal grant, a substantial and specific danger to public health or safety, or a violation of law, rule, or regulation related to a federal grant. This requires that Micro-grantee comply with applicable provisions of 41 USC 4712.

16) **Encouragement to ban text messaging while driving:** Micro-grantee is encouraged to adopt and enforce policies banning employees from text messaging while driving and to establish policies and educate its employees to decrease crashes caused by distracted drivers.

17) **Requirements if designated "high risk" by a federal agency:** If micro-grantee is designated "high risk" by a federal grant-making agency other than DOJ, currently or at any time during the course of this micro-grant, micro-grantee must disclose this and any other information requested immediately to JSS at the contact information provided by JSS and to OJP by email at OJP.ComplianceReporting@ojp.usdoj.gov. "High risk" includes any status under which a federal awarding agency provides additional oversight due to micro-grantee's past performance, or other programmatic or financial concerns with the micro-grantee. Micro-grantee's disclosure must include the following: 1. The federal awarding agency that designates micro-grantee high risk, 2. The date micro-grantee was designated high risk, 3. The high-risk point of contact at that federal awarding agency (name, phone number, and email address), and 4. The reasons for the high-risk status, as set out by the federal awarding agency. Micro-grantee agrees to comply with all additional requirements imposed by OJP or JSS if micro-grantee is designated as high risk by DOJ or any other federal agency.

18) **Copyright and data rights:** Micro-grantee acknowledges that OJP has a royalty-free, non-exclusive, and irrevocable license to reproduce, publish, or otherwise use for Federal purposes: (1) any copyrighted work developed under this Subgrant; and (2) any rights of copyright to which Micro-grantee purchased with Subgrant funds.

Micro-grantee acknowledges that OJP has the right to (1) obtain, reproduce, publish, or otherwise use the data first produced under this Subgrant; and (2) authorize others to receive, reproduce, publish, or otherwise use this data for Federal purposes.

If Micro-grantee refuses to accept terms affording the Government such rights, JSS is required to report this to OJP and not proceed with an agreement with Micro-grantee.

19) **Micro-grantee integrity and performance matters:** Requirement to report information on certain civil, criminal, and administrative proceedings to SAM and FAPIIS.

Micro-grantee must comply with all applicable requirements regarding reporting of information on civil, criminal, and administrative proceedings connected with either this micro-grant or any other grant, cooperative agreement, or procurement contract from the federal government.

If the total value of micro-grantee's currently active grants, cooperative agreements, and procurement contracts from all Federal awarding agencies exceeds $10,000,000 for any period of time during the period of performance of this Federal award, then during that period of time, micro-grantee must maintain the currency of information reported to the System for Award Management (SAM) that is made available in the Federal Awardee Performance and Integrity Information System (FAPIIS) about civil, criminal, or administrative proceedings described in this special condition.

The details of recipient obligations regarding the required reporting (and updating) of information on certain civil, criminal, and administrative proceedings to the federal designated integrity and performance system (currently, "FAPIIS") within SAM are posted on the OJP web site at https://ojp.gov/funding/FAPIIS.htm (Award condition: Recipient Integrity and Performance Matters, including Recipient Reporting to FAPIIS), and are incorporated by reference here.

CITY OF BARRE

GRANTS MANAGEMENT POLICY

PURPOSE: Barre City recognizes that grant funding provides significant resources to enhance the City's ability to provide services and activities not otherwise available. City staff within the authority of the City council, may seek grant funding for activities that are determined to further core City functions or that provide for activities which are in the best interests of our citizens.

The purpose of this policy is to ensure that acceptance of each award granted to the City is formally authorized by the City Council. Further, this policy is intended to provide procedures relating to the requirements for grant applications and awards, and to ensure that City departments are accountable for proper grant documentation, administration and activities.

AUTHORITIES:

Grant applications may be completed by Department Directors, staff administrators, City Committees, and/or City Councilors, and are hereinafter referred to as the **Applicant.** All non-staff applicants are responsible for coordinating with the Grants Administrator to ensure compliance with the provisions of this Policy and/or any Grant Award/Grant Agreement for which the applicant was the sponsor. The application may be submitted after approval from the City Manager or if appropriate, the City Council.

All grant contracts will be approved in accordance with the City's Procurement Policy and procedures and all grant applications will be signed by the City Manager as the MAO (Municipal Authorizing Official) or the Manager's designee (as documented in writing).

PRE-APPLICATION REVIEW FORM:

The City of Barre assumes a legal and financial obligation to a grantor, contractor, or partner when it accepts grant funding. Any individual (i.e. applicant) considering applying for a grant must contact the City Manager before preparing a grant application or proposal. Administrative grant applications deemed by the City Manager to be routine, such as the PACIF Grant Program, can be approved solely by the City Manager.

Once a grant opportunity is identified by an Applicant, a Grant Application Review Form (GARF-Attachment A) must be completed and sent to the City Manager, before proceeding with a grant application. This form must indicate:

Financial Elements:

1. Funding Agency and Program
2. Level of grant funding sought
3. Purpose and Scope of project
4. Amount of match or in-kind requirements

5. Is there requirement for the City to make a commitment to permanently employ project staff at the end of the grant? If so, explain.
6. Does this grant involve significant partnerships with other organizations (requiring Memorandums of Understanding or Intergovernmental Agreements)?
7. How does this proposed grant align with the City's strategic priorities and/or Department's Operating Plans?
8. How does this grant provide for or expand services to address critical need?

Program Requirements:

Does the proposed grant:

1. Align with City's strategic priorities and/or department's operations plans?
2. Provide or expand services to address critical need?
3. Fall within the City's capacity to administer the financial and administrative aspects of the grant?

The City Manager and City Council must approve the project's budget, in-kind match and any commitments about sustaining the project after the grant ends.

RESPONSIBILITY FOR MAINTENANCE OF FILE AND PUBLIC DISCLOSURE

Upon initiation of the grant application process, an electronic folder shall be established in the City's network ("S" Drive or SharePoint folder when developed), as designated by the originating Department Director or Administrator and as coordinated with the Grants Administrator and/or the Finance Director. The original grant contract and any approved amendments shall be retained by the appropriate Department Director (or designee) with digital copies to the network folder for accessibility by the Finance Director and/or the Grants Administrator for administrative support and auditing purposes. (Note: Because the Police Department has a separate secured server, centralized electronic storage logistics shall be coordinated on a case-by case basis between the Police Department and Grants Administrator). The official grant file, including a copy of the signed contract and all documents associated with the grant, including but not limited to the contract and amendments, applications, pre-application questionnaire, activity reports, requests for reimbursement, fiscal reports, and other correspondence will be maintained by the initiating department. Original grant applications and related documents prepared by a non-staff member shall be forwarded to the Grants Administrator. The non-staff party may retain copies (Xerox or electronic) for committee files. Any destruction of these records will be in accordance with grantor/federal requirements and/or the approved retention schedule in the appropriate department. Public disclosure requests regarding grants will be referred to the initiating department for coordination of public records gathering and release.

GRANT ROLES AND RESPONSIBILITIES

The applicant, with the assistance/support of the Finance Director and/or Grants Administrator, is responsible for the oversight of grant related financial activity. Non-staff grant applicants (i.e. Committee Chairs, Councilors, etc.) are responsible to coordinate grant and financial administration with the Grants Administrator and Finance Director. The Finance Director and/or Grants Administrator reviews financial reports generated by recipient departments, works with the City Attorney to identify and investigate issues that may arise with respect to the management of City grants, and provides general oversight of other grant related issues, including the proper budgeting and finance for grants and other responsibilities indicated throughout this policy. The Finance Department is responsible for creating a grant fund and/or project number, which is used to recognize grant revenue and expenditures in the department's budget.

Applicants that apply for and utilize grant funds are responsible for coordinating all aspects of the grant process with the Grants Administrator. These include planning for grant acquisition, preparation and submission of grant proposals to the City Manager, preparing City Council Agenda items apply for and/or to accept grant awards, preparing budget revision requests, developing grant implementation plans, managing awarded grants and projects, preparing and submitting reports to grantors, and properly closing out grant projects as detailed in this policy and the grant agreement. The following roles further define grant related responsibilities of the applicant:

- Communicate grant related information to all staff in their department with awarded grant responsibilities.
- Serve as the conduit for grant related ideas and information from within the department.
- Obtain necessary approvals and signatures as indicated in this policy.
- Ensure City grant policy and procedure is being followed in the department.

Subject to the authorization of the City Council, the City Manager has authority to approve and sign grant applications for City operating departments at the time of application submission. In addition, the City Manager shall be the final arbiter of which department will submit the application when internal competition for a grant application cannot otherwise be resolved or to obtain approval to submit multiple applications to a grantor.

CONFLICT OF INTEREST

Real or perceived conflicts of interest shall be avoided in the preparation of any grant application. When in doubt, the City's Conflict of Interest Policy shall be referenced in the preparation of any grant application for the City. Potential conflicts of interest shall be disclosed to the City Manager and/or City Council for assessment prior to the preparation of any grant application.

LETTER OF SUPPORT REQUESTS FROM EXTERNAL ORGANIZATIONS

External organizations frequently seek support from the City for grant applications they intend to submit to grantors. Requests for such support are often made to department staff or directors whom are unaware of whether other City departments are competing for the same grant opportunity. Additionally, there may be other reasons why it would not be in the City's interests to provide a letter of support. Requests for such letters of support should be forwarded to the City Manager for response. Letters of Support may be executed by the City Manager, unless circumstances warrant authorization by the Council and/or signature by the Mayor. This shall not pertain to project partners who are submitting non-conflicting grant application.

COUNCIL APPROVAL TO ACCEPT AWARD

The Applicant requesting acceptance of a Grant Award and underlying grant agreement must prepare a Council agenda item and submit it to the City Manager for the Council's authorization to accept the Grant before executing and returning and Award documents. The agenda item must be accompanied by the award letter, grant agreement and any other required documentation.

Once the City Council has approved the grant award, and unless otherwise directed by the City Council, the City Manager, or their designee shall be authorized to sign the grant. Once duly executed, the department Director is responsible for submitting the grant award acceptance to the grantor

The Department Director must provide a digital copy of the fully executed grant agreement to the Finance Director and Grants Administrator when the fully executed grant award is returned to the City by the grantor.

APPLICATION SUBMISSION

Each grant application submitted by or on behalf of the City should be aligned with an established City priority, meets the City's expectations of document quality, has matching funds available if required by the grantor, and that the means for continuation of the project or program when the grant period ends has been given realistic consideration and is in receipt of final approval by the City Manager and City Council.

The department submitting the grant application is responsible for ensuring that pre- application assessment factors noted above have been evaluated and completed prior to submissions.

USE AND RECEIPT OF GRANT FUNDS

Grant funds must be properly used and received by the City of Barre. Violations can result in a range of penalties, including suspension of future fund from the grantor, return of all funds associated with the award, including those already expended, and civil and/or criminal penalties.

Any procurement activity associated with grant funded projects or programs shall follow the Barre City Procurement Policy.

Fixed assets purchased with federal or state funds, with an acquisition cost of $5,000 or greater, must be inventoried, tagged (where practical) and tracked as such in NEMRC fixed asset module. Asset ownership, transfers and disposal of assets need to be properly documented and follow the guidelines within the grant agreement. Federal equipment should be inventoried at least every two (2) years in order to safeguard against theft, damage, or loss.

GRANT REPORTING

Grants awarded to the City may require that progress, programmatic and financial reports be submitted to the grantor. Accurate and timely reporting is critical to maintaining a good relationship with the grantor. Late or inaccurate reports may negatively impact current or future funding.

Copies of all financial status, programmatic report and final reports prepared for submission to the grantor shall be provided to the City Manager (or Manager's designee) and the Finance Director for content and quality review. Upon acceptance, the Department Director will place a copy of the report in the network folder for audit purposes.

GRANT RECORDS RETENTION

Unless otherwise specified in any grant agreement, the City of Barre maintains records for three years following the closure of its most recent audit report. If any litigation, claim, negotiation, audit, or other action involving grant records has been started before the expiration of the retention period, the records must be retained until completion of the action and resolution of all issues which rise from it, or until the end of the applicable retention period, whichever is later.

Typical documentation preserved in grant files shall include, as appropriate:

- Statistical and other information used in preparation of and support of the grant
- Award (award letter, council agenda item, grant agreement, grant amendments, modifications, extensions, cancellations and termination and anything else related to the award)
- Statistical and other information used in preparation of and support of the grant
- Finance (account set up, purchase orders, invoices)
- Reports (reports to granting entity and evaluation components)

Attachment A
Grant Application Review Form

City Department:	Police Department
For further information, contact:	Chief Vail
Phone Number:	802-476-6613

Funding Agency:	Small, Rural, Tribal Law Enforcement Micro Grant Program
Application Deadline:	N/A

Brief Description of project and purpose:
Support Year 1 implementation of a body worn camera program in the Barre City Police Department.

Amount of Expected Grant Award:	$22,000 one-time funding
Amount of local cash match required:	$22,000
Amount of local In-kind Match:	N/A

Name any significant partnerships with other organizations (i.e., is an MOU required, intergovernmental agreements, etc.):
N/A

How does this proposed grant align with the City's strategic priorities and/or Department's Operating Plans?
Body worn cameras are a best practice for law enforcement. Barre City is one of the few (if not only) police department's that does not use body worn cameras.

How does this grant provide for or expand services to address critical need?
This grant will support Year 1 implementation of a key upgrade to our Police Department.

Is the Department capable of administering the financial and administrative aspects of the grant? Explain. If no, state what assistance will be needed:
Yes.

City Manager Received (sign and date):	

*** Copy must be retained in grant application file and copy sent with executed grant award to Accounting Department. ***

Non-Binding Budgetary Estimate

Axon Enterprise, Inc.
17800 N 85th St.
Scottsdale, Arizona 85255
United States
VAT: 86-0741227
Domestic: (800) 978-2737
International: +1.800.978.2737

Q-450091-45231.804JD

Issued: 11/01/2023

Quote Expiration: 11/10/2023

Estimated Contract Start Date: 12/15/2023

Account Number: 226865
Payment Terms: N30
Delivery Method:

SHIP TO	BILL TO	SALES REPRESENTATIVE	PRIMARY CONTACT
Delivery;Invoice-15 Fourth St 15 4TH ST BARRE, VT 05641-4476 USA	Barre City Police Department - VT 15 4TH ST BARRE VT 05641-4476 USA Email:	Dave Finethy Phone: (602) 830-0397 Email: dfinethy@axon.com Fax:	Braedon Vail Phone: (802) 476-6613 Email: braedon.vail@vermont.gov Fax: (802) 476-0249

Quote Summary

Program Length	120 Months
TOTAL COST	$416,345.67
ESTIMATED TOTAL W/ TAX	$416,345.67

Discount Summary

Average Savings Per Year	$8,495.39
TOTAL SAVINGS	$84,953.93

Payment Summary

Date	Subtotal	Tax	Total

Payment Summary

Date	Subtotal	Tax	Total
Nov 2023	$20,817.26	$0.00	$20,817.26
Jul 2024	$20,817.28	$0.00	$20,817.28
Jul 2025	$41,634.57	$0.00	$41,634.57
Jul 2026	$41,634.57	$0.00	$41,634.57
Jul 2027	$41,634.57	$0.00	$41,634.57
Jul 2028	$41,634.57	$0.00	$41,634.57
Jul 2029	$41,634.57	$0.00	$41,634.57
Jul 2030	$41,634.57	$0.00	$41,634.57
Jul 2031	$41,634.57	$0.00	$41,634.57
Jul 2032	$41,634.57	$0.00	$41,634.57
Jul 2033	$41,634.57	$0.00	$41,634.57
Total	**$416,345.67**	**$0.00**	**$416,345.67**

Quote List Price: **$501,299.60**
Quote Subtotal: **$416,345.67**

Pricing

All deliverables are detailed in Delivery Schedules section lower in proposal

Item	Description	Term	Qty	List Price	Net Price	Subtotal	Tax	Total
TASER 7 Certification 10 Year Bundle								
20008	TASER 7 HANDLE, YLW, HIGH VISIBILITY (GREEN LASER), CLASS 3R		18	$1,960.00	$0.00	$0.00	$0.00	$0.00
71019	NORTH AMER POWER CORD FOR AB3 8-BAY, AB2 1-BAY / 6-BAY DOCK		1	$11.32	$10.38	$10.38	$0.00	$10.38
80374	EXT WARRANTY, TASER 7 BATTERY PACK	109m	21	$52.32	$47.95	$1,006.95	$0.00	$1,006.95
80396	EXT WARRANTY, TASER 7 SIX BAY DOCK	109m	1	$777.17	$712.31	$712.31	$0.00	$712.31
80395	EXT WARRANTY, TASER 7 HANDLE	109m	18	$777.17	$712.31	$12,821.58	$0.00	$12,821.58
20242	TASER CERTIFICATION PROGRAM YEAR 6-10 HARDWARE		18	$3,931.00	$3,602.97	$64,853.46	$0.00	$64,853.46
20248	TASER 7 EVIDENCE.COM LICENSE	120m	18	$600.00	$549.93	$9,898.74	$0.00	$9,898.74
20246	TASER 7 DUTY CARTRIDGE REPLACEMENT ACCESS PROGRAM	120m	18	$309.60	$283.76	$5,107.68	$0.00	$5,107.68
22176	TASER 7 LIVE CARTRIDGE, CLOSE QUARTERS (12-DEGREE) NS		54	$40.25	$36.89	$1,992.06	$0.00	$1,992.06
22175	TASER 7 LIVE CARTRIDGE, STANDOFF (3.5-DEGREE) NS		54	$40.25	$36.89	$1,992.06	$0.00	$1,992.06
20018	TASER BATTERY PACK, TACTICAL		21	$98.10	$89.91	$1,888.11	$0.00	$1,888.11
74200	TASER 6-BAY DOCK AND CORE		1	$1,624.35	$1,488.80	$1,488.80	$0.00	$1,488.80
20160	TASER 7 HOLSTER - SAFARILAND, RH+CART CARRIER		17	$91.25	$83.63	$1,421.71	$0.00	$1,421.71
22176	TASER 7 LIVE CARTRIDGE, CLOSE QUARTERS (12-DEGREE) NS		36	$40.25	$36.89	$1,328.04	$0.00	$1,328.04
22175	TASER 7 LIVE CARTRIDGE, STANDOFF (3.5-DEGREE) NS		36	$40.25	$36.89	$1,328.04	$0.00	$1,328.04
22176	TASER 7 LIVE CARTRIDGE, CLOSE QUARTERS (12-DEGREE) NS		36	$40.25	$36.89	$1,328.04	$0.00	$1,328.04
22175	TASER 7 LIVE CARTRIDGE, STANDOFF (3.5-DEGREE) NS		36	$40.25	$36.89	$1,328.04	$0.00	$1,328.04
22176	TASER 7 LIVE CARTRIDGE, CLOSE QUARTERS (12-DEGREE) NS		36	$40.25	$36.89	$1,328.04	$0.00	$1,328.04
22176	TASER 7 LIVE CARTRIDGE, CLOSE QUARTERS (12-DEGREE) NS		36	$40.25	$36.89	$1,328.04	$0.00	$1,328.04
22175	TASER 7 LIVE CARTRIDGE, STANDOFF (3.5-DEGREE) NS		36	$40.25	$36.89	$1,328.04	$0.00	$1,328.04
22178	TASER 7 HOOK-AND-LOOP TRN (HALT) CARTRIDGE, CLOSE QUART NS		36	$40.25	$36.89	$1,328.04	$0.00	$1,328.04
22178	TASER 7 HOOK-AND-LOOP TRN (HALT) CARTRIDGE, CLOSE QUART NS		36	$40.25	$36.89	$1,328.04	$0.00	$1,328.04
22177	TASER 7 HOOK-AND-LOOP TRN (HALT) CARTRIDGE, STANDOFF NS		36	$40.25	$36.89	$1,328.04	$0.00	$1,328.04
70033	WALL MOUNT BRACKET, ASSY, EVIDENCE.COM DOCK		1	$43.90	$40.24	$40.24	$0.00	$40.24
80090	TARGET FRAME, PROFESSIONAL, 27.5 IN. X 75 IN., TASER 7		1	$85.55	$78.41	$78.41	$0.00	$78.41
20161	TASER 7 HOLSTER - SAFARILAND, LH+CART CARRIER		1	$91.25	$83.63	$83.63	$0.00	$83.63
80087	TASER TARGET, CONDUCTIVE, PROFESSIONAL (RUGGEDIZED)		1	$171.05	$156.78	$156.78	$0.00	$156.78

Item	Description	Term	Qty	List Price	Net Price	Subtotal	Tax	Total
20248	TASER 7 EVIDENCE.COM LICENSE	120m	1	$600.00	$549.93	$549.93	$0.00	$549.93
22179	TASER 7 INERT CARTRIDGE, STANDOFF (3.5-DEGREE) NS		18	$51.95	$47.62	$857.16	$0.00	$857.16
22181	TASER 7 INERT CARTRIDGE, CLOSE QUARTERS (12-DEGREE) NS		18	$51.95	$47.62	$857.16	$0.00	$857.16
22175	TASER 7 LIVE CARTRIDGE, STANDOFF (3.5-DEGREE) NS		36	$40.25	$36.89	$1,328.04	$0.00	$1,328.04
22175	TASER 7 LIVE CARTRIDGE, STANDOFF (3.5-DEGREE) NS		36	$40.25	$36.89	$1,328.04	$0.00	$1,328.04
22176	TASER 7 LIVE CARTRIDGE, CLOSE QUARTERS (12-DEGREE) NS		36	$40.25	$36.89	$1,328.04	$0.00	$1,328.04
22177	TASER 7 HOOK-AND-LOOP TRN (HALT) CARTRIDGE, STANDOFF NS		36	$40.25	$36.89	$1,328.04	$0.00	$1,328.04
Core BWC Bundle,10YR								
73309	AXON CAMERA REFRESH ONE		22	$810.00	$775.17	$17,053.74	$0.00	$17,053.74
73449	RESPOND DEVICE LICENSE	120m	22	$600.00	$574.20	$12,632.40	$0.00	$12,632.40
80464	EXT WARRANTY, CAMERA (TAP)	109m	22	$817.50	$782.35	$17,211.70	$0.00	$17,211.70
73310	AXON CAMERA REFRESH TWO		22	$850.00	$813.45	$17,895.90	$0.00	$17,895.90
73345	AXON CAMERA REFRESH THREE		22	$874.00	$836.42	$18,401.24	$0.00	$18,401.24
73346	AXON CAMERA REFRESH FOUR		22	$888.00	$849.82	$18,696.04	$0.00	$18,696.04
73686	EVIDENCE.COM UNLIMITED AXON DEVICE STORAGE	120m	22	$2,880.00	$1,684.91	$37,068.02	$0.00	$37,068.02
73348	MULTI-BAY BWC DOCK 4TH REFRESH		3	$1,890.00	$1,808.74	$5,426.22	$0.00	$5,426.22
73347	MULTI-BAY BWC DOCK 3RD REFRESH		3	$1,862.00	$1,781.94	$5,345.82	$0.00	$5,345.82
75015	SIGNAL SIDEARM KIT		22	$249.00	$238.29	$5,242.38	$0.00	$5,242.38
73688	MULTI-BAY BWC DOCK 2ND REFRESH		3	$1,810.00	$1,732.18	$5,196.54	$0.00	$5,196.54
73689	MULTI-BAY BWC DOCK 1ST REFRESH		3	$1,724.00	$1,649.88	$4,949.64	$0.00	$4,949.64
80465	EXT WARRANTY, MULTI-BAY DOCK (TAP)	109m	3	$1,454.06	$1,391.54	$4,174.62	$0.00	$4,174.62
73683	10 GB EVIDENCE.COM A-LA-CART STORAGE	120m	66	$66.00	$63.17	$4,169.22	$0.00	$4,169.22
71044	BATTERY, SIGNAL SIDEARM, CR2430 SINGLE PACK		44	$1.00	$0.96	$42.24	$0.00	$42.24
73746	PROFESSIONAL EVIDENCE.COM LICENSE	120m	22	$4,680.00	$4,478.78	$98,533.16	$0.00	$98,533.16
AB3 Camera Bundle								
11534	USB-C to USB-A CABLE FOR AB3 OR FLEX 2		25	$0.00	$0.00	$0.00	$0.00	$0.00
74028	WING CLIP MOUNT, AXON RAPIDLOCK		25	$0.00	$0.00	$0.00	$0.00	$0.00
73202	AXON BODY 3 - NA10 - US - BLK - RAPIDLOCK		22	$749.00	$696.57	$15,324.54	$0.00	$15,324.54
AB3 Multi Bay Dock Bundle								
71019	NORTH AMER POWER CORD FOR AB3 8-BAY, AB2 1-BAY / 6-BAY DOCK		3	$0.00	$0.00	$0.00	$0.00	$0.00
70033	WALL MOUNT BRACKET, ASSY, EVIDENCE.COM DOCK		3	$43.90	$40.83	$122.49	$0.00	$122.49
74210	AXON BODY 3 - 8 BAY DOCK		3	$1,595.00	$1,483.35	$4,450.05	$0.00	$4,450.05
Total						**$416,345.67**	**$0.00**	**$416,345.67**

Delivery Schedule

Hardware

Bundle	Item	Description	QTY	Estimated Delivery Date
AB3 Camera Bundle	11534	USB-C to USB-A CABLE FOR AB3 OR FLEX 2	25	11/15/2023
AB3 Camera Bundle	73202	AXON BODY 3 - NA10 - US - BLK - RAPIDLOCK	22	11/15/2023
AB3 Camera Bundle	74028	WING CLIP MOUNT, AXON RAPIDLOCK	25	11/15/2023
AB3 Multi Bay Dock Bundle	70033	WALL MOUNT BRACKET, ASSY, EVIDENCE.COM DOCK	3	11/15/2023
AB3 Multi Bay Dock Bundle	71019	NORTH AMER POWER CORD FOR AB3 8-BAY, AB2 1-BAY / 6-BAY DOCK	3	11/15/2023
AB3 Multi Bay Dock Bundle	74210	AXON BODY 3 - 8 BAY DOCK	3	11/15/2023
Core BWC Bundle,10YR	71044	BATTERY, SIGNAL SIDEARM, CR2430 SINGLE PACK	44	11/15/2023
Core BWC Bundle,10YR	75015	SIGNAL SIDEARM KIT	22	11/15/2023
TASER 7 Certification 10 Year Bundle	20008	TASER 7 HANDLE, YLW, HIGH VISIBILITY (GREEN LASER), CLASS 3R	18	11/15/2023
TASER 7 Certification 10 Year Bundle	20018	TASER BATTERY PACK, TACTICAL	21	11/15/2023
TASER 7 Certification 10 Year Bundle	20160	TASER 7 HOLSTER - SAFARILAND, RH+CART CARRIER	17	11/15/2023
TASER 7 Certification 10 Year Bundle	20161	TASER 7 HOLSTER - SAFARILAND, LH+CART CARRIER	1	11/15/2023
TASER 7 Certification 10 Year Bundle	22175	TASER 7 LIVE CARTRIDGE, STANDOFF (3.5-DEGREE) NS	54	11/15/2023
TASER 7 Certification 10 Year Bundle	22175	TASER 7 LIVE CARTRIDGE, STANDOFF (3.5-DEGREE) NS	36	11/15/2023
TASER 7 Certification 10 Year Bundle	22176	TASER 7 LIVE CARTRIDGE, CLOSE QUARTERS (12-DEGREE) NS	54	11/15/2023
TASER 7 Certification 10 Year Bundle	22176	TASER 7 LIVE CARTRIDGE, CLOSE QUARTERS (12-DEGREE) NS	36	11/15/2023
TASER 7 Certification 10 Year Bundle	22177	TASER 7 HOOK-AND-LOOP TRN (HALT) CARTRIDGE, STANDOFF NS	36	11/15/2023
TASER 7 Certification 10 Year Bundle	22178	TASER 7 HOOK-AND-LOOP TRN (HALT) CARTRIDGE, CLOSE QUART NS	36	11/15/2023
TASER 7 Certification 10 Year Bundle	22179	TASER 7 INERT CARTRIDGE, STANDOFF (3.5-DEGREE) NS	18	11/15/2023
TASER 7 Certification 10 Year Bundle	22181	TASER 7 INERT CARTRIDGE, CLOSE QUARTERS (12-DEGREE) NS	18	11/15/2023
TASER 7 Certification 10 Year Bundle	70033	WALL MOUNT BRACKET, ASSY, EVIDENCE.COM DOCK	1	11/15/2023
TASER 7 Certification 10 Year Bundle	71019	NORTH AMER POWER CORD FOR AB3 8-BAY, AB2 1-BAY / 6-BAY DOCK	1	11/15/2023
TASER 7 Certification 10 Year Bundle	74200	TASER 6-BAY DOCK AND CORE	1	11/15/2023
TASER 7 Certification 10 Year Bundle	80087	TASER TARGET, CONDUCTIVE, PROFESSIONAL (RUGGEDIZED)	1	11/15/2023
TASER 7 Certification 10 Year Bundle	80090	TARGET FRAME, PROFESSIONAL, 27.5 IN. X 75 IN., TASER 7	1	11/15/2023
TASER 7 Certification 10 Year Bundle	22175	TASER 7 LIVE CARTRIDGE, STANDOFF (3.5-DEGREE) NS	36	11/15/2024
TASER 7 Certification 10 Year Bundle	22176	TASER 7 LIVE CARTRIDGE, CLOSE QUARTERS (12-DEGREE) NS	36	11/15/2024
TASER 7 Certification 10 Year Bundle	22175	TASER 7 LIVE CARTRIDGE, STANDOFF (3.5-DEGREE) NS	36	11/15/2025
TASER 7 Certification 10 Year Bundle	22176	TASER 7 LIVE CARTRIDGE, CLOSE QUARTERS (12-DEGREE) NS	36	11/15/2025
TASER 7 Certification 10 Year Bundle	22177	TASER 7 HOOK-AND-LOOP TRN (HALT) CARTRIDGE, STANDOFF NS	36	11/15/2025
TASER 7 Certification 10 Year Bundle	22178	TASER 7 HOOK-AND-LOOP TRN (HALT) CARTRIDGE, CLOSE QUART NS	36	11/15/2025
Core BWC Bundle,10YR	73309	AXON CAMERA REFRESH ONE	22	05/15/2026
Core BWC Bundle,10YR	73689	MULTI-BAY BWC DOCK 1ST REFRESH	3	05/15/2026
TASER 7 Certification 10 Year Bundle	22175	TASER 7 LIVE CARTRIDGE, STANDOFF (3.5-DEGREE) NS	36	11/15/2026
TASER 7 Certification 10 Year Bundle	22176	TASER 7 LIVE CARTRIDGE, CLOSE QUARTERS (12-DEGREE) NS	36	11/15/2026
TASER 7 Certification 10 Year Bundle	22175	TASER 7 LIVE CARTRIDGE, STANDOFF (3.5-DEGREE) NS	36	11/15/2027
TASER 7 Certification 10 Year Bundle	22176	TASER 7 LIVE CARTRIDGE, CLOSE QUARTERS (12-DEGREE) NS	36	11/15/2027
Core BWC Bundle,10YR	73310	AXON CAMERA REFRESH TWO	22	11/15/2028
Core BWC Bundle,10YR	73688	MULTI-BAY BWC DOCK 2ND REFRESH	3	11/15/2028
TASER 7 Certification 10 Year Bundle	20242	TASER CERTIFICATION PROGRAM YEAR 6-10 HARDWARE	18	11/15/2028
Core BWC Bundle,10YR	73345	AXON CAMERA REFRESH THREE	22	05/15/2031
Core BWC Bundle,10YR	73347	MULTI-BAY BWC DOCK 3RD REFRESH	3	05/15/2031

Hardware

Bundle	Item	Description	QTY	Estimated Delivery Date
Core BWC Bundle,10YR	73346	AXON CAMERA REFRESH FOUR	22	11/15/2033
Core BWC Bundle,10YR	73348	MULTI-BAY BWC DOCK 4TH REFRESH	3	11/15/2033

Software

Bundle	Item	Description	QTY	Estimated Start Date	Estimated End Date
Core BWC Bundle,10YR	73449	RESPOND DEVICE LICENSE	22	12/15/2023	12/14/2033
Core BWC Bundle,10YR	73683	10 GB EVIDENCE.COM A-LA-CART STORAGE	66	12/15/2023	12/14/2033
Core BWC Bundle,10YR	73686	EVIDENCE.COM UNLIMITED AXON DEVICE STORAGE	22	12/15/2023	12/14/2033
Core BWC Bundle,10YR	73746	PROFESSIONAL EVIDENCE.COM LICENSE	22	12/15/2023	12/14/2033
TASER 7 Certification 10 Year Bundle	20248	TASER 7 EVIDENCE.COM LICENSE	18	12/15/2023	12/14/2033
TASER 7 Certification 10 Year Bundle	20248	TASER 7 EVIDENCE.COM LICENSE	1	12/15/2023	12/14/2033

Services

Bundle	Item	Description	QTY
TASER 7 Certification 10 Year Bundle	20246	TASER 7 DUTY CARTRIDGE REPLACEMENT ACCESS PROGRAM	18

Warranties

Bundle	Item	Description	QTY	Estimated Start Date	Estimated End Date
Core BWC Bundle,10YR	80464	EXT WARRANTY, CAMERA (TAP)	22	11/15/2024	12/14/2033
Core BWC Bundle,10YR	80465	EXT WARRANTY, MULTI-BAY DOCK (TAP)	3	11/15/2024	12/14/2033
TASER 7 Certification 10 Year Bundle	80374	EXT WARRANTY, TASER 7 BATTERY PACK	21	11/15/2024	12/14/2033
TASER 7 Certification 10 Year Bundle	80395	EXT WARRANTY, TASER 7 HANDLE	18	11/15/2024	12/14/2033
TASER 7 Certification 10 Year Bundle	80396	EXT WARRANTY, TASER 7 SIX BAY DOCK	1	11/15/2024	12/14/2033

Payment Details

Nov 2023

Invoice Plan	Item	Description	Qty	Subtotal	Tax	Total
Year 1 - Payment #1	11534	USB-C to USB-A CABLE FOR AB3 OR FLEX 2	25	$0.00	$0.00	$0.00
Year 1 - Payment #1	20008	TASER 7 HANDLE, YLW, HIGH VISIBILITY (GREEN LASER), CLASS 3R	18	$0.00	$0.00	$0.00
Year 1 - Payment #1	20018	TASER BATTERY PACK, TACTICAL	21	$94.41	$0.00	$94.41
Year 1 - Payment #1	20160	TASER 7 HOLSTER - SAFARILAND, RH+CART CARRIER	17	$71.09	$0.00	$71.09
Year 1 - Payment #1	20161	TASER 7 HOLSTER - SAFARILAND, LH+CART CARRIER	1	$4.18	$0.00	$4.18
Year 1 - Payment #1	20242	TASER CERTIFICATION PROGRAM YEAR 6-10 HARDWARE	18	$3,242.67	$0.00	$3,242.67
Year 1 - Payment #1	20246	TASER 7 DUTY CARTRIDGE REPLACEMENT ACCESS PROGRAM	18	$255.38	$0.00	$255.38
Year 1 - Payment #1	20248	TASER 7 EVIDENCE.COM LICENSE	1	$27.50	$0.00	$27.50
Year 1 - Payment #1	20248	TASER 7 EVIDENCE.COM LICENSE	18	$494.94	$0.00	$494.94
Year 1 - Payment #1	22175	TASER 7 LIVE CARTRIDGE, STANDOFF (3.5-DEGREE) NS	36	$66.40	$0.00	$66.40
Year 1 - Payment #1	22175	TASER 7 LIVE CARTRIDGE, STANDOFF (3.5-DEGREE) NS	54	$99.60	$0.00	$99.60
Year 1 - Payment #1	22175	TASER 7 LIVE CARTRIDGE, STANDOFF (3.5-DEGREE) NS	36	$66.40	$0.00	$66.40
Year 1 - Payment #1	22175	TASER 7 LIVE CARTRIDGE, STANDOFF (3.5-DEGREE) NS	36	$66.40	$0.00	$66.40
Year 1 - Payment #1	22175	TASER 7 LIVE CARTRIDGE, STANDOFF (3.5-DEGREE) NS	36	$66.40	$0.00	$66.40
Year 1 - Payment #1	22175	TASER 7 LIVE CARTRIDGE, STANDOFF (3.5-DEGREE) NS	36	$66.40	$0.00	$66.40
Year 1 - Payment #1	22176	TASER 7 LIVE CARTRIDGE, CLOSE QUARTERS (12-DEGREE) NS	36	$66.40	$0.00	$66.40
Year 1 - Payment #1	22176	TASER 7 LIVE CARTRIDGE, CLOSE QUARTERS (12-DEGREE) NS	54	$99.60	$0.00	$99.60
Year 1 - Payment #1	22176	TASER 7 LIVE CARTRIDGE, CLOSE QUARTERS (12-DEGREE) NS	36	$66.40	$0.00	$66.40
Year 1 - Payment #1	22176	TASER 7 LIVE CARTRIDGE, CLOSE QUARTERS (12-DEGREE) NS	36	$66.40	$0.00	$66.40
Year 1 - Payment #1	22176	TASER 7 LIVE CARTRIDGE, CLOSE QUARTERS (12-DEGREE) NS	36	$66.40	$0.00	$66.40
Year 1 - Payment #1	22176	TASER 7 LIVE CARTRIDGE, CLOSE QUARTERS (12-DEGREE) NS	36	$66.40	$0.00	$66.40
Year 1 - Payment #1	22177	TASER 7 HOOK-AND-LOOP TRN (HALT) CARTRIDGE, STANDOFF NS	36	$66.40	$0.00	$66.40
Year 1 - Payment #1	22177	TASER 7 HOOK-AND-LOOP TRN (HALT) CARTRIDGE, STANDOFF NS	36	$66.40	$0.00	$66.40
Year 1 - Payment #1	22178	TASER 7 HOOK-AND-LOOP TRN (HALT) CARTRIDGE, CLOSE QUART NS	36	$66.40	$0.00	$66.40
Year 1 - Payment #1	22178	TASER 7 HOOK-AND-LOOP TRN (HALT) CARTRIDGE, CLOSE QUART NS	36	$66.40	$0.00	$66.40
Year 1 - Payment #1	22179	TASER 7 INERT CARTRIDGE, STANDOFF (3.5-DEGREE) NS	18	$42.86	$0.00	$42.86
Year 1 - Payment #1	22181	TASER 7 INERT CARTRIDGE, CLOSE QUARTERS (12-DEGREE) NS	18	$42.86	$0.00	$42.86
Year 1 - Payment #1	70033	WALL MOUNT BRACKET, ASSY, EVIDENCE.COM DOCK	1	$2.01	$0.00	$2.01
Year 1 - Payment #1	70033	WALL MOUNT BRACKET, ASSY, EVIDENCE.COM DOCK	3	$6.12	$0.00	$6.12
Year 1 - Payment #1	71019	NORTH AMER POWER CORD FOR AB3 8-BAY, AB2 1-BAY / 6-BAY DOCK	1	$0.52	$0.00	$0.52
Year 1 - Payment #1	71019	NORTH AMER POWER CORD FOR AB3 8-BAY, AB2 1-BAY / 6-BAY DOCK	3	$0.00	$0.00	$0.00
Year 1 - Payment #1	71044	BATTERY, SIGNAL SIDEARM, CR2430 SINGLE PACK	44	$2.11	$0.00	$2.11
Year 1 - Payment #1	73202	AXON BODY 3 - NA10 - US - BLK - RAPIDLOCK	22	$766.23	$0.00	$766.23
Year 1 - Payment #1	73309	AXON CAMERA REFRESH ONE	22	$852.69	$0.00	$852.69
Year 1 - Payment #1	73310	AXON CAMERA REFRESH TWO	22	$894.80	$0.00	$894.80
Year 1 - Payment #1	73345	AXON CAMERA REFRESH THREE	22	$920.06	$0.00	$920.06
Year 1 - Payment #1	73346	AXON CAMERA REFRESH FOUR	22	$934.80	$0.00	$934.80
Year 1 - Payment #1	73347	MULTI-BAY BWC DOCK 3RD REFRESH	3	$267.29	$0.00	$267.29
Year 1 - Payment #1	73348	MULTI-BAY BWC DOCK 4TH REFRESH	3	$271.31	$0.00	$271.31
Year 1 - Payment #1	73449	RESPOND DEVICE LICENSE	22	$631.62	$0.00	$631.62
Year 1 - Payment #1	73683	10 GB EVIDENCE.COM A-LA-CART STORAGE	66	$208.46	$0.00	$208.46
Year 1 - Payment #1	73686	EVIDENCE.COM UNLIMITED AXON DEVICE STORAGE	22	$1,853.40	$0.00	$1,853.40
Year 1 - Payment #1	73688	MULTI-BAY BWC DOCK 2ND REFRESH	3	$259.83	$0.00	$259.83

Nov 2023

Invoice Plan	Item	Description	Qty	Subtotal	Tax	Total
Year 1 - Payment #1	73689	MULTI-BAY BWC DOCK 1ST REFRESH	3	$247.48	$0.00	$247.48
Year 1 - Payment #1	73746	PROFESSIONAL EVIDENCE.COM LICENSE	22	$4,926.66	$0.00	$4,926.66
Year 1 - Payment #1	74028	WING CLIP MOUNT, AXON RAPIDLOCK	25	$0.00	$0.00	$0.00
Year 1 - Payment #1	74200	TASER 6-BAY DOCK AND CORE	1	$74.44	$0.00	$74.44
Year 1 - Payment #1	74210	AXON BODY 3 - 8 BAY DOCK	3	$222.50	$0.00	$222.50
Year 1 - Payment #1	75015	SIGNAL SIDEARM KIT	22	$262.12	$0.00	$262.12
Year 1 - Payment #1	80087	TASER TARGET, CONDUCTIVE, PROFESSIONAL (RUGGEDIZED)	1	$7.84	$0.00	$7.84
Year 1 - Payment #1	80090	TARGET FRAME, PROFESSIONAL, 27.5 IN. X 75 IN., TASER 7	1	$3.92	$0.00	$3.92
Year 1 - Payment #1	80374	EXT WARRANTY, TASER 7 BATTERY PACK	21	$50.35	$0.00	$50.35
Year 1 - Payment #1	80395	EXT WARRANTY, TASER 7 HANDLE	18	$641.08	$0.00	$641.08
Year 1 - Payment #1	80396	EXT WARRANTY, TASER 7 SIX BAY DOCK	1	$35.62	$0.00	$35.62
Year 1 - Payment #1	80464	EXT WARRANTY, CAMERA (TAP)	22	$860.58	$0.00	$860.58
Year 1 - Payment #1	80465	EXT WARRANTY, MULTI-BAY DOCK (TAP)	3	$208.73	$0.00	$208.73
Total				**$20,817.26**	**$0.00**	**$20,817.26**

Jul 2024

Invoice Plan	Item	Description	Qty	Subtotal	Tax	Total
Year 1 - Payment #2	11534	USB-C to USB-A CABLE FOR AB3 OR FLEX 2	25	$0.00	$0.00	$0.00
Year 1 - Payment #2	20008	TASER 7 HANDLE, YLW, HIGH VISIBILITY (GREEN LASER), CLASS 3R	18	$0.00	$0.00	$0.00
Year 1 - Payment #2	20018	TASER BATTERY PACK, TACTICAL	21	$94.41	$0.00	$94.41
Year 1 - Payment #2	20160	TASER 7 HOLSTER - SAFARILAND, RH+CART CARRIER	17	$71.09	$0.00	$71.09
Year 1 - Payment #2	20161	TASER 7 HOLSTER - SAFARILAND, LH+CART CARRIER	1	$4.18	$0.00	$4.18
Year 1 - Payment #2	20242	TASER CERTIFICATION PROGRAM YEAR 6-10 HARDWARE	18	$3,242.67	$0.00	$3,242.67
Year 1 - Payment #2	20246	TASER 7 DUTY CARTRIDGE REPLACEMENT ACCESS PROGRAM	18	$255.38	$0.00	$255.38
Year 1 - Payment #2	20248	TASER 7 EVIDENCE.COM LICENSE	1	$27.50	$0.00	$27.50
Year 1 - Payment #2	20248	TASER 7 EVIDENCE.COM LICENSE	18	$494.94	$0.00	$494.94
Year 1 - Payment #2	22175	TASER 7 LIVE CARTRIDGE, STANDOFF (3.5-DEGREE) NS	36	$66.40	$0.00	$66.40
Year 1 - Payment #2	22175	TASER 7 LIVE CARTRIDGE, STANDOFF (3.5-DEGREE) NS	54	$99.60	$0.00	$99.60
Year 1 - Payment #2	22175	TASER 7 LIVE CARTRIDGE, STANDOFF (3.5-DEGREE) NS	36	$66.40	$0.00	$66.40
Year 1 - Payment #2	22175	TASER 7 LIVE CARTRIDGE, STANDOFF (3.5-DEGREE) NS	36	$66.40	$0.00	$66.40
Year 1 - Payment #2	22175	TASER 7 LIVE CARTRIDGE, STANDOFF (3.5-DEGREE) NS	36	$66.40	$0.00	$66.40
Year 1 - Payment #2	22175	TASER 7 LIVE CARTRIDGE, STANDOFF (3.5-DEGREE) NS	36	$66.40	$0.00	$66.40
Year 1 - Payment #2	22176	TASER 7 LIVE CARTRIDGE, CLOSE QUARTERS (12-DEGREE) NS	36	$66.40	$0.00	$66.40
Year 1 - Payment #2	22176	TASER 7 LIVE CARTRIDGE, CLOSE QUARTERS (12-DEGREE) NS	54	$99.60	$0.00	$99.60
Year 1 - Payment #2	22176	TASER 7 LIVE CARTRIDGE, CLOSE QUARTERS (12-DEGREE) NS	36	$66.40	$0.00	$66.40
Year 1 - Payment #2	22176	TASER 7 LIVE CARTRIDGE, CLOSE QUARTERS (12-DEGREE) NS	36	$66.40	$0.00	$66.40
Year 1 - Payment #2	22176	TASER 7 LIVE CARTRIDGE, CLOSE QUARTERS (12-DEGREE) NS	36	$66.40	$0.00	$66.40
Year 1 - Payment #2	22176	TASER 7 LIVE CARTRIDGE, CLOSE QUARTERS (12-DEGREE) NS	36	$66.40	$0.00	$66.40
Year 1 - Payment #2	22177	TASER 7 HOOK-AND-LOOP TRN (HALT) CARTRIDGE, STANDOFF NS	36	$66.40	$0.00	$66.40
Year 1 - Payment #2	22177	TASER 7 HOOK-AND-LOOP TRN (HALT) CARTRIDGE, STANDOFF NS	36	$66.40	$0.00	$66.40
Year 1 - Payment #2	22178	TASER 7 HOOK-AND-LOOP TRN (HALT) CARTRIDGE, CLOSE QUART NS	36	$66.40	$0.00	$66.40
Year 1 - Payment #2	22178	TASER 7 HOOK-AND-LOOP TRN (HALT) CARTRIDGE, CLOSE QUART NS	36	$66.40	$0.00	$66.40
Year 1 - Payment #2	22179	TASER 7 INERT CARTRIDGE, STANDOFF (3.5-DEGREE) NS	18	$42.86	$0.00	$42.86
Year 1 - Payment #2	22181	TASER 7 INERT CARTRIDGE, CLOSE QUARTERS (12-DEGREE) NS	18	$42.86	$0.00	$42.86
Year 1 - Payment #2	70033	WALL MOUNT BRACKET, ASSY, EVIDENCE.COM DOCK	1	$2.01	$0.00	$2.01
Year 1 - Payment #2	70033	WALL MOUNT BRACKET, ASSY, EVIDENCE.COM DOCK	3	$6.12	$0.00	$6.12

Jul 2024

Invoice Plan	Item	Description	Qty	Subtotal	Tax	Total
Year 1 - Payment #2	71019	NORTH AMER POWER CORD FOR AB3 8-BAY, AB2 1-BAY / 6-BAY DOCK	1	$0.52	$0.00	$0.52
Year 1 - Payment #2	71019	NORTH AMER POWER CORD FOR AB3 8-BAY, AB2 1-BAY / 6-BAY DOCK	3	$0.00	$0.00	$0.00
Year 1 - Payment #2	71044	BATTERY, SIGNAL SIDEARM, CR2430 SINGLE PACK	44	$2.11	$0.00	$2.11
Year 1 - Payment #2	73202	AXON BODY 3 - NA10 - US - BLK - RAPIDLOCK	22	$766.23	$0.00	$766.23
Year 1 - Payment #2	73309	AXON CAMERA REFRESH ONE	22	$852.69	$0.00	$852.69
Year 1 - Payment #2	73310	AXON CAMERA REFRESH TWO	22	$894.80	$0.00	$894.80
Year 1 - Payment #2	73345	AXON CAMERA REFRESH THREE	22	$920.06	$0.00	$920.06
Year 1 - Payment #2	73346	AXON CAMERA REFRESH FOUR	22	$934.80	$0.00	$934.80
Year 1 - Payment #2	73347	MULTI-BAY BWC DOCK 3RD REFRESH	3	$267.29	$0.00	$267.29
Year 1 - Payment #2	73348	MULTI-BAY BWC DOCK 4TH REFRESH	3	$271.31	$0.00	$271.31
Year 1 - Payment #2	73449	RESPOND DEVICE LICENSE	22	$631.62	$0.00	$631.62
Year 1 - Payment #2	73683	10 GB EVIDENCE.COM A-LA-CART STORAGE	66	$208.46	$0.00	$208.46
Year 1 - Payment #2	73686	EVIDENCE.COM UNLIMITED AXON DEVICE STORAGE	22	$1,853.40	$0.00	$1,853.40
Year 1 - Payment #2	73688	MULTI-BAY BWC DOCK 2ND REFRESH	3	$259.83	$0.00	$259.83
Year 1 - Payment #2	73689	MULTI-BAY BWC DOCK 1ST REFRESH	3	$247.48	$0.00	$247.48
Year 1 - Payment #2	73746	PROFESSIONAL EVIDENCE.COM LICENSE	22	$4,926.68	$0.00	$4,926.68
Year 1 - Payment #2	74028	WING CLIP MOUNT, AXON RAPIDLOCK	25	$0.00	$0.00	$0.00
Year 1 - Payment #2	74200	TASER 6-BAY DOCK AND CORE	1	$74.44	$0.00	$74.44
Year 1 - Payment #2	74210	AXON BODY 3 - 8 BAY DOCK	3	$222.50	$0.00	$222.50
Year 1 - Payment #2	75015	SIGNAL SIDEARM KIT	22	$262.12	$0.00	$262.12
Year 1 - Payment #2	80087	TASER TARGET, CONDUCTIVE, PROFESSIONAL (RUGGEDIZED)	1	$7.84	$0.00	$7.84
Year 1 - Payment #2	80090	TARGET FRAME, PROFESSIONAL, 27.5 IN. X 75 IN., TASER 7	1	$3.92	$0.00	$3.92
Year 1 - Payment #2	80374	EXT WARRANTY, TASER 7 BATTERY PACK	21	$50.35	$0.00	$50.35
Year 1 - Payment #2	80395	EXT WARRANTY, TASER 7 HANDLE	18	$641.08	$0.00	$641.08
Year 1 - Payment #2	80396	EXT WARRANTY, TASER 7 SIX BAY DOCK	1	$35.62	$0.00	$35.62
Year 1 - Payment #2	80464	EXT WARRANTY, CAMERA (TAP)	22	$860.58	$0.00	$860.58
Year 1 - Payment #2	80465	EXT WARRANTY, MULTI-BAY DOCK (TAP)	3	$208.73	$0.00	$208.73
Total				**$20,817.28**	**$0.00**	**$20,817.28**

Jul 2025

Invoice Plan	Item	Description	Qty	Subtotal	Tax	Total
Year 2	11534	USB-C to USB-A CABLE FOR AB3 OR FLEX 2	25	$0.00	$0.00	$0.00
Year 2	20008	TASER 7 HANDLE, YLW, HIGH VISIBILITY (GREEN LASER), CLASS 3R	18	$0.00	$0.00	$0.00
Year 2	20018	TASER BATTERY PACK, TACTICAL	21	$188.81	$0.00	$188.81
Year 2	20160	TASER 7 HOLSTER - SAFARILAND, RH+CART CARRIER	17	$142.17	$0.00	$142.17
Year 2	20161	TASER 7 HOLSTER - SAFARILAND, LH+CART CARRIER	1	$8.36	$0.00	$8.36
Year 2	20242	TASER CERTIFICATION PROGRAM YEAR 6-10 HARDWARE	18	$6,485.35	$0.00	$6,485.35
Year 2	20246	TASER 7 DUTY CARTRIDGE REPLACEMENT ACCESS PROGRAM	18	$510.77	$0.00	$510.77
Year 2	20248	TASER 7 EVIDENCE.COM LICENSE	1	$54.99	$0.00	$54.99
Year 2	20248	TASER 7 EVIDENCE.COM LICENSE	18	$989.87	$0.00	$989.87
Year 2	22175	TASER 7 LIVE CARTRIDGE, STANDOFF (3.5-DEGREE) NS	36	$132.80	$0.00	$132.80
Year 2	22175	TASER 7 LIVE CARTRIDGE, STANDOFF (3.5-DEGREE) NS	54	$199.21	$0.00	$199.21
Year 2	22175	TASER 7 LIVE CARTRIDGE, STANDOFF (3.5-DEGREE) NS	36	$132.80	$0.00	$132.80
Year 2	22175	TASER 7 LIVE CARTRIDGE, STANDOFF (3.5-DEGREE) NS	36	$132.80	$0.00	$132.80
Year 2	22175	TASER 7 LIVE CARTRIDGE, STANDOFF (3.5-DEGREE) NS	36	$132.80	$0.00	$132.80
Year 2	22175	TASER 7 LIVE CARTRIDGE, STANDOFF (3.5-DEGREE) NS	36	$132.80	$0.00	$132.80

Jul 2025

Invoice Plan	Item	Description	Qty	Subtotal	Tax	Total
Year 2	22176	TASER 7 LIVE CARTRIDGE, CLOSE QUARTERS (12-DEGREE) NS	36	$132.80	$0.00	$132.80
Year 2	22176	TASER 7 LIVE CARTRIDGE, CLOSE QUARTERS (12-DEGREE) NS	54	$199.21	$0.00	$199.21
Year 2	22176	TASER 7 LIVE CARTRIDGE, CLOSE QUARTERS (12-DEGREE) NS	36	$132.80	$0.00	$132.80
Year 2	22176	TASER 7 LIVE CARTRIDGE, CLOSE QUARTERS (12-DEGREE) NS	36	$132.80	$0.00	$132.80
Year 2	22176	TASER 7 LIVE CARTRIDGE, CLOSE QUARTERS (12-DEGREE) NS	36	$132.80	$0.00	$132.80
Year 2	22176	TASER 7 LIVE CARTRIDGE, CLOSE QUARTERS (12-DEGREE) NS	36	$132.80	$0.00	$132.80
Year 2	22177	TASER 7 HOOK-AND-LOOP TRN (HALT) CARTRIDGE, STANDOFF NS	36	$132.80	$0.00	$132.80
Year 2	22177	TASER 7 HOOK-AND-LOOP TRN (HALT) CARTRIDGE, STANDOFF NS	36	$132.80	$0.00	$132.80
Year 2	22178	TASER 7 HOOK-AND-LOOP TRN (HALT) CARTRIDGE, CLOSE QUART NS	36	$132.80	$0.00	$132.80
Year 2	22178	TASER 7 HOOK-AND-LOOP TRN (HALT) CARTRIDGE, CLOSE QUART NS	36	$132.80	$0.00	$132.80
Year 2	22179	TASER 7 INERT CARTRIDGE, STANDOFF (3.5-DEGREE) NS	18	$85.72	$0.00	$85.72
Year 2	22181	TASER 7 INERT CARTRIDGE, CLOSE QUARTERS (12-DEGREE) NS	18	$85.72	$0.00	$85.72
Year 2	70033	WALL MOUNT BRACKET, ASSY, EVIDENCE.COM DOCK	1	$4.02	$0.00	$4.02
Year 2	70033	WALL MOUNT BRACKET, ASSY, EVIDENCE.COM DOCK	3	$12.25	$0.00	$12.25
Year 2	71019	NORTH AMER POWER CORD FOR AB3 8-BAY, AB2 1-BAY / 6-BAY DOCK	1	$1.04	$0.00	$1.04
Year 2	71019	NORTH AMER POWER CORD FOR AB3 8-BAY, AB2 1-BAY / 6-BAY DOCK	3	$0.00	$0.00	$0.00
Year 2	71044	BATTERY, SIGNAL SIDEARM, CR2430 SINGLE PACK	44	$4.22	$0.00	$4.22
Year 2	73202	AXON BODY 3 - NA10 - US - BLK - RAPIDLOCK	22	$1,532.45	$0.00	$1,532.45
Year 2	73309	AXON CAMERA REFRESH ONE	22	$1,705.37	$0.00	$1,705.37
Year 2	73310	AXON CAMERA REFRESH TWO	22	$1,789.59	$0.00	$1,789.59
Year 2	73345	AXON CAMERA REFRESH THREE	22	$1,840.12	$0.00	$1,840.12
Year 2	73346	AXON CAMERA REFRESH FOUR	22	$1,869.60	$0.00	$1,869.60
Year 2	73347	MULTI-BAY BWC DOCK 3RD REFRESH	3	$534.58	$0.00	$534.58
Year 2	73348	MULTI-BAY BWC DOCK 4TH REFRESH	3	$542.62	$0.00	$542.62
Year 2	73449	RESPOND DEVICE LICENSE	22	$1,263.24	$0.00	$1,263.24
Year 2	73683	10 GB EVIDENCE.COM A-LA-CART STORAGE	66	$416.92	$0.00	$416.92
Year 2	73686	EVIDENCE.COM UNLIMITED AXON DEVICE STORAGE	22	$3,706.80	$0.00	$3,706.80
Year 2	73688	MULTI-BAY BWC DOCK 2ND REFRESH	3	$519.65	$0.00	$519.65
Year 2	73689	MULTI-BAY BWC DOCK 1ST REFRESH	3	$494.96	$0.00	$494.96
Year 2	73746	PROFESSIONAL EVIDENCE.COM LICENSE	22	$9,853.40	$0.00	$9,853.40
Year 2	74028	WING CLIP MOUNT, AXON RAPIDLOCK	25	$0.00	$0.00	$0.00
Year 2	74200	TASER 6-BAY DOCK AND CORE	1	$148.88	$0.00	$148.88
Year 2	74210	AXON BODY 3 - 8 BAY DOCK	3	$445.00	$0.00	$445.00
Year 2	75015	SIGNAL SIDEARM KIT	22	$524.24	$0.00	$524.24
Year 2	80087	TASER TARGET, CONDUCTIVE, PROFESSIONAL (RUGGEDIZED)	1	$15.68	$0.00	$15.68
Year 2	80090	TARGET FRAME, PROFESSIONAL, 27.5 IN. X 75 IN., TASER 7	1	$7.84	$0.00	$7.84
Year 2	80374	EXT WARRANTY, TASER 7 BATTERY PACK	21	$100.70	$0.00	$100.70
Year 2	80395	EXT WARRANTY, TASER 7 HANDLE	18	$1,282.16	$0.00	$1,282.16
Year 2	80396	EXT WARRANTY, TASER 7 SIX BAY DOCK	1	$71.23	$0.00	$71.23
Year 2	80464	EXT WARRANTY, CAMERA (TAP)	22	$1,721.17	$0.00	$1,721.17
Year 2	80465	EXT WARRANTY, MULTI-BAY DOCK (TAP)	3	$417.46	$0.00	$417.46
Total				**$41,634.57**	**$0.00**	**$41,634.57**

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Invoice Plan	Item	Description	Qty	Subtotal	Tax	Total
Year 3	11534	USB-C to USB-A CABLE FOR AB3 OR FLEX 2	25	$0.00	$0.00	$0.00

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Invoice Plan	Item	Description	Qty	Subtotal	Tax	Total
Year 3	20008	TASER 7 HANDLE, YLW, HIGH VISIBILITY (GREEN LASER), CLASS 3R	18	$0.00	$0.00	$0.00
Year 3	20018	TASER BATTERY PACK, TACTICAL	21	$188.81	$0.00	$188.81
Year 3	20160	TASER 7 HOLSTER - SAFARILAND, RH+CART CARRIER	17	$142.17	$0.00	$142.17
Year 3	20161	TASER 7 HOLSTER - SAFARILAND, LH+CART CARRIER	1	$8.36	$0.00	$8.36
Year 3	20242	TASER CERTIFICATION PROGRAM YEAR 6-10 HARDWARE	18	$6,485.35	$0.00	$6,485.35
Year 3	20246	TASER 7 DUTY CARTRIDGE REPLACEMENT ACCESS PROGRAM	18	$510.77	$0.00	$510.77
Year 3	20248	TASER 7 EVIDENCE.COM LICENSE	1	$54.99	$0.00	$54.99
Year 3	20248	TASER 7 EVIDENCE.COM LICENSE	18	$989.87	$0.00	$989.87
Year 3	22175	TASER 7 LIVE CARTRIDGE, STANDOFF (3.5-DEGREE) NS	36	$132.80	$0.00	$132.80
Year 3	22175	TASER 7 LIVE CARTRIDGE, STANDOFF (3.5-DEGREE) NS	54	$199.21	$0.00	$199.21
Year 3	22175	TASER 7 LIVE CARTRIDGE, STANDOFF (3.5-DEGREE) NS	36	$132.80	$0.00	$132.80
Year 3	22175	TASER 7 LIVE CARTRIDGE, STANDOFF (3.5-DEGREE) NS	36	$132.80	$0.00	$132.80
Year 3	22175	TASER 7 LIVE CARTRIDGE, STANDOFF (3.5-DEGREE) NS	36	$132.80	$0.00	$132.80
Year 3	22175	TASER 7 LIVE CARTRIDGE, STANDOFF (3.5-DEGREE) NS	36	$132.80	$0.00	$132.80
Year 3	22176	TASER 7 LIVE CARTRIDGE, CLOSE QUARTERS (12-DEGREE) NS	36	$132.80	$0.00	$132.80
Year 3	22176	TASER 7 LIVE CARTRIDGE, CLOSE QUARTERS (12-DEGREE) NS	54	$199.21	$0.00	$199.21
Year 3	22176	TASER 7 LIVE CARTRIDGE, CLOSE QUARTERS (12-DEGREE) NS	36	$132.80	$0.00	$132.80
Year 3	22176	TASER 7 LIVE CARTRIDGE, CLOSE QUARTERS (12-DEGREE) NS	36	$132.80	$0.00	$132.80
Year 3	22176	TASER 7 LIVE CARTRIDGE, CLOSE QUARTERS (12-DEGREE) NS	36	$132.80	$0.00	$132.80
Year 3	22176	TASER 7 LIVE CARTRIDGE, CLOSE QUARTERS (12-DEGREE) NS	36	$132.80	$0.00	$132.80
Year 3	22177	TASER 7 HOOK-AND-LOOP TRN (HALT) CARTRIDGE, STANDOFF NS	36	$132.80	$0.00	$132.80
Year 3	22177	TASER 7 HOOK-AND-LOOP TRN (HALT) CARTRIDGE, STANDOFF NS	36	$132.80	$0.00	$132.80
Year 3	22178	TASER 7 HOOK-AND-LOOP TRN (HALT) CARTRIDGE, CLOSE QUART NS	36	$132.80	$0.00	$132.80
Year 3	22178	TASER 7 HOOK-AND-LOOP TRN (HALT) CARTRIDGE, CLOSE QUART NS	36	$132.80	$0.00	$132.80
Year 3	22179	TASER 7 INERT CARTRIDGE, STANDOFF (3.5-DEGREE) NS	18	$85.72	$0.00	$85.72
Year 3	22181	TASER 7 INERT CARTRIDGE, CLOSE QUARTERS (12-DEGREE) NS	18	$85.72	$0.00	$85.72
Year 3	70033	WALL MOUNT BRACKET, ASSY, EVIDENCE.COM DOCK	1	$4.02	$0.00	$4.02
Year 3	70033	WALL MOUNT BRACKET, ASSY, EVIDENCE.COM DOCK	3	$12.25	$0.00	$12.25
Year 3	71019	NORTH AMER POWER CORD FOR AB3 8-BAY, AB2 1-BAY / 6-BAY DOCK	1	$1.04	$0.00	$1.04
Year 3	71019	NORTH AMER POWER CORD FOR AB3 8-BAY, AB2 1-BAY / 6-BAY DOCK	3	$0.00	$0.00	$0.00
Year 3	71044	BATTERY, SIGNAL SIDEARM, CR2430 SINGLE PACK	44	$4.22	$0.00	$4.22
Year 3	73202	AXON BODY 3 - NA10 - US - BLK - RAPIDLOCK	22	$1,532.45	$0.00	$1,532.45
Year 3	73309	AXON CAMERA REFRESH ONE	22	$1,705.37	$0.00	$1,705.37
Year 3	73310	AXON CAMERA REFRESH TWO	22	$1,789.59	$0.00	$1,789.59
Year 3	73345	AXON CAMERA REFRESH THREE	22	$1,840.12	$0.00	$1,840.12
Year 3	73346	AXON CAMERA REFRESH FOUR	22	$1,869.60	$0.00	$1,869.60
Year 3	73347	MULTI-BAY BWC DOCK 3RD REFRESH	3	$534.58	$0.00	$534.58
Year 3	73348	MULTI-BAY BWC DOCK 4TH REFRESH	3	$542.62	$0.00	$542.62
Year 3	73449	RESPOND DEVICE LICENSE	22	$1,263.24	$0.00	$1,263.24
Year 3	73683	10 GB EVIDENCE.COM A-LA-CART STORAGE	66	$416.92	$0.00	$416.92
Year 3	73686	EVIDENCE.COM UNLIMITED AXON DEVICE STORAGE	22	$3,706.80	$0.00	$3,706.80
Year 3	73688	MULTI-BAY BWC DOCK 2ND REFRESH	3	$519.65	$0.00	$519.65
Year 3	73689	MULTI-BAY BWC DOCK 1ST REFRESH	3	$494.96	$0.00	$494.96
Year 3	73746	PROFESSIONAL EVIDENCE.COM LICENSE	22	$9,853.40	$0.00	$9,853.40
Year 3	74028	WING CLIP MOUNT, AXON RAPIDLOCK	25	$0.00	$0.00	$0.00
Year 3	74200	TASER 6-BAY DOCK AND CORE	1	$148.88	$0.00	$148.88
Year 3	74210	AXON BODY 3 - 8 BAY DOCK	3	$445.00	$0.00	$445.00

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Invoice Plan	Item	Description	Qty	Subtotal	Tax	Total
Year 3	75015	SIGNAL SIDEARM KIT	22	$524.24	$0.00	$524.24
Year 3	80087	TASER TARGET, CONDUCTIVE, PROFESSIONAL (RUGGEDIZED)	1	$15.68	$0.00	$15.68
Year 3	80090	TARGET FRAME, PROFESSIONAL, 27.5 IN. X 75 IN., TASER 7	1	$7.84	$0.00	$7.84
Year 3	80374	EXT WARRANTY, TASER 7 BATTERY PACK	21	$100.70	$0.00	$100.70
Year 3	80395	EXT WARRANTY, TASER 7 HANDLE	18	$1,282.16	$0.00	$1,282.16
Year 3	80396	EXT WARRANTY, TASER 7 SIX BAY DOCK	1	$71.23	$0.00	$71.23
Year 3	80464	EXT WARRANTY, CAMERA (TAP)	22	$1,721.17	$0.00	$1,721.17
Year 3	80465	EXT WARRANTY, MULTI-BAY DOCK (TAP)	3	$417.46	$0.00	$417.46
Total				**$41,634.57**	**$0.00**	**$41,634.57**

Jul 2027

Invoice Plan	Item	Description	Qty	Subtotal	Tax	Total
Year 4	11534	USB-C to USB-A CABLE FOR AB3 OR FLEX 2	25	$0.00	$0.00	$0.00
Year 4	20008	TASER 7 HANDLE, YLW, HIGH VISIBILITY (GREEN LASER), CLASS 3R	18	$0.00	$0.00	$0.00
Year 4	20018	TASER BATTERY PACK, TACTICAL	21	$188.81	$0.00	$188.81
Year 4	20160	TASER 7 HOLSTER - SAFARILAND, RH+CART CARRIER	17	$142.17	$0.00	$142.17
Year 4	20161	TASER 7 HOLSTER - SAFARILAND, LH+CART CARRIER	1	$8.36	$0.00	$8.36
Year 4	20242	TASER CERTIFICATION PROGRAM YEAR 6-10 HARDWARE	18	$6,485.35	$0.00	$6,485.35
Year 4	20246	TASER 7 DUTY CARTRIDGE REPLACEMENT ACCESS PROGRAM	18	$510.77	$0.00	$510.77
Year 4	20248	TASER 7 EVIDENCE.COM LICENSE	1	$54.99	$0.00	$54.99
Year 4	20248	TASER 7 EVIDENCE.COM LICENSE	18	$989.87	$0.00	$989.87
Year 4	22175	TASER 7 LIVE CARTRIDGE, STANDOFF (3.5-DEGREE) NS	36	$132.80	$0.00	$132.80
Year 4	22175	TASER 7 LIVE CARTRIDGE, STANDOFF (3.5-DEGREE) NS	54	$199.21	$0.00	$199.21
Year 4	22175	TASER 7 LIVE CARTRIDGE, STANDOFF (3.5-DEGREE) NS	36	$132.80	$0.00	$132.80
Year 4	22175	TASER 7 LIVE CARTRIDGE, STANDOFF (3.5-DEGREE) NS	36	$132.80	$0.00	$132.80
Year 4	22175	TASER 7 LIVE CARTRIDGE, STANDOFF (3.5-DEGREE) NS	36	$132.80	$0.00	$132.80
Year 4	22175	TASER 7 LIVE CARTRIDGE, STANDOFF (3.5-DEGREE) NS	36	$132.80	$0.00	$132.80
Year 4	22176	TASER 7 LIVE CARTRIDGE, CLOSE QUARTERS (12-DEGREE) NS	36	$132.80	$0.00	$132.80
Year 4	22176	TASER 7 LIVE CARTRIDGE, CLOSE QUARTERS (12-DEGREE) NS	54	$199.21	$0.00	$199.21
Year 4	22176	TASER 7 LIVE CARTRIDGE, CLOSE QUARTERS (12-DEGREE) NS	36	$132.80	$0.00	$132.80
Year 4	22176	TASER 7 LIVE CARTRIDGE, CLOSE QUARTERS (12-DEGREE) NS	36	$132.80	$0.00	$132.80
Year 4	22176	TASER 7 LIVE CARTRIDGE, CLOSE QUARTERS (12-DEGREE) NS	36	$132.80	$0.00	$132.80
Year 4	22176	TASER 7 LIVE CARTRIDGE, CLOSE QUARTERS (12-DEGREE) NS	36	$132.80	$0.00	$132.80
Year 4	22177	TASER 7 HOOK-AND-LOOP TRN (HALT) CARTRIDGE, STANDOFF NS	36	$132.80	$0.00	$132.80
Year 4	22177	TASER 7 HOOK-AND-LOOP TRN (HALT) CARTRIDGE, STANDOFF NS	36	$132.80	$0.00	$132.80
Year 4	22178	TASER 7 HOOK-AND-LOOP TRN (HALT) CARTRIDGE, CLOSE QUART NS	36	$132.80	$0.00	$132.80
Year 4	22178	TASER 7 HOOK-AND-LOOP TRN (HALT) CARTRIDGE, CLOSE QUART NS	36	$132.80	$0.00	$132.80
Year 4	22179	TASER 7 INERT CARTRIDGE, STANDOFF (3.5-DEGREE) NS	18	$85.72	$0.00	$85.72
Year 4	22181	TASER 7 INERT CARTRIDGE, CLOSE QUARTERS (12-DEGREE) NS	18	$85.72	$0.00	$85.72
Year 4	70033	WALL MOUNT BRACKET, ASSY, EVIDENCE.COM DOCK	1	$4.02	$0.00	$4.02
Year 4	70033	WALL MOUNT BRACKET, ASSY, EVIDENCE.COM DOCK	3	$12.25	$0.00	$12.25
Year 4	71019	NORTH AMER POWER CORD FOR AB3 8-BAY, AB2 1-BAY / 6-BAY DOCK	1	$1.04	$0.00	$1.04
Year 4	71019	NORTH AMER POWER CORD FOR AB3 8-BAY, AB2 1-BAY / 6-BAY DOCK	3	$0.00	$0.00	$0.00
Year 4	71044	BATTERY, SIGNAL SIDEARM, CR2430 SINGLE PACK	44	$4.22	$0.00	$4.22
Year 4	73202	AXON BODY 3 - NA10 - US - BLK - RAPIDLOCK	22	$1,532.45	$0.00	$1,532.45
Year 4	73309	AXON CAMERA REFRESH ONE	22	$1,705.37	$0.00	$1,705.37

Jul 2027

Invoice Plan	Item	Description	Qty	Subtotal	Tax	Total
Year 4	73310	AXON CAMERA REFRESH TWO	22	$1,789.59	$0.00	$1,789.59
Year 4	73345	AXON CAMERA REFRESH THREE	22	$1,840.12	$0.00	$1,840.12
Year 4	73346	AXON CAMERA REFRESH FOUR	22	$1,869.60	$0.00	$1,869.60
Year 4	73347	MULTI-BAY BWC DOCK 3RD REFRESH	3	$534.58	$0.00	$534.58
Year 4	73348	MULTI-BAY BWC DOCK 4TH REFRESH	3	$542.62	$0.00	$542.62
Year 4	73449	RESPOND DEVICE LICENSE	22	$1,263.24	$0.00	$1,263.24
Year 4	73683	10 GB EVIDENCE.COM A-LA-CART STORAGE	66	$416.92	$0.00	$416.92
Year 4	73686	EVIDENCE.COM UNLIMITED AXON DEVICE STORAGE	22	$3,706.80	$0.00	$3,706.80
Year 4	73688	MULTI-BAY BWC DOCK 2ND REFRESH	3	$519.65	$0.00	$519.65
Year 4	73689	MULTI-BAY BWC DOCK 1ST REFRESH	3	$494.96	$0.00	$494.96
Year 4	73746	PROFESSIONAL EVIDENCE.COM LICENSE	22	$9,853.40	$0.00	$9,853.40
Year 4	74028	WING CLIP MOUNT, AXON RAPIDLOCK	25	$0.00	$0.00	$0.00
Year 4	74200	TASER 6-BAY DOCK AND CORE	1	$148.88	$0.00	$148.88
Year 4	74210	AXON BODY 3 - 8 BAY DOCK	3	$445.00	$0.00	$445.00
Year 4	75015	SIGNAL SIDEARM KIT	22	$524.24	$0.00	$524.24
Year 4	80087	TASER TARGET, CONDUCTIVE, PROFESSIONAL (RUGGEDIZED)	1	$15.68	$0.00	$15.68
Year 4	80090	TARGET FRAME, PROFESSIONAL, 27.5 IN. X 75 IN., TASER 7	1	$7.84	$0.00	$7.84
Year 4	80374	EXT WARRANTY, TASER 7 BATTERY PACK	21	$100.70	$0.00	$100.70
Year 4	80395	EXT WARRANTY, TASER 7 HANDLE	18	$1,282.16	$0.00	$1,282.16
Year 4	80396	EXT WARRANTY, TASER 7 SIX BAY DOCK	1	$71.23	$0.00	$71.23
Year 4	80464	EXT WARRANTY, CAMERA (TAP)	22	$1,721.17	$0.00	$1,721.17
Year 4	80465	EXT WARRANTY, MULTI-BAY DOCK (TAP)	3	$417.46	$0.00	$417.46
Total				**$41,634.57**	**$0.00**	**$41,634.57**

Jul 2028

Invoice Plan	Item	Description	Qty	Subtotal	Tax	Total
Year 5	11534	USB-C to USB-A CABLE FOR AB3 OR FLEX 2	25	$0.00	$0.00	$0.00
Year 5	20008	TASER 7 HANDLE, YLW, HIGH VISIBILITY (GREEN LASER), CLASS 3R	18	$0.00	$0.00	$0.00
Year 5	20018	TASER BATTERY PACK, TACTICAL	21	$188.81	$0.00	$188.81
Year 5	20160	TASER 7 HOLSTER - SAFARILAND, RH+CART CARRIER	17	$142.17	$0.00	$142.17
Year 5	20161	TASER 7 HOLSTER - SAFARILAND, LH+CART CARRIER	1	$8.36	$0.00	$8.36
Year 5	20242	TASER CERTIFICATION PROGRAM YEAR 6-10 HARDWARE	18	$6,485.35	$0.00	$6,485.35
Year 5	20246	TASER 7 DUTY CARTRIDGE REPLACEMENT ACCESS PROGRAM	18	$510.77	$0.00	$510.77
Year 5	20248	TASER 7 EVIDENCE.COM LICENSE	1	$54.99	$0.00	$54.99
Year 5	20248	TASER 7 EVIDENCE.COM LICENSE	18	$989.87	$0.00	$989.87
Year 5	22175	TASER 7 LIVE CARTRIDGE, STANDOFF (3.5-DEGREE) NS	36	$132.80	$0.00	$132.80
Year 5	22175	TASER 7 LIVE CARTRIDGE, STANDOFF (3.5-DEGREE) NS	54	$199.21	$0.00	$199.21
Year 5	22175	TASER 7 LIVE CARTRIDGE, STANDOFF (3.5-DEGREE) NS	36	$132.80	$0.00	$132.80
Year 5	22175	TASER 7 LIVE CARTRIDGE, STANDOFF (3.5-DEGREE) NS	36	$132.80	$0.00	$132.80
Year 5	22175	TASER 7 LIVE CARTRIDGE, STANDOFF (3.5-DEGREE) NS	36	$132.80	$0.00	$132.80
Year 5	22175	TASER 7 LIVE CARTRIDGE, STANDOFF (3.5-DEGREE) NS	36	$132.80	$0.00	$132.80
Year 5	22176	TASER 7 LIVE CARTRIDGE, CLOSE QUARTERS (12-DEGREE) NS	36	$132.80	$0.00	$132.80
Year 5	22176	TASER 7 LIVE CARTRIDGE, CLOSE QUARTERS (12-DEGREE) NS	54	$199.21	$0.00	$199.21
Year 5	22176	TASER 7 LIVE CARTRIDGE, CLOSE QUARTERS (12-DEGREE) NS	36	$132.80	$0.00	$132.80
Year 5	22176	TASER 7 LIVE CARTRIDGE, CLOSE QUARTERS (12-DEGREE) NS	36	$132.80	$0.00	$132.80
Year 5	22176	TASER 7 LIVE CARTRIDGE, CLOSE QUARTERS (12-DEGREE) NS	36	$132.80	$0.00	$132.80

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Invoice Plan	Item	Description	Qty	Subtotal	Tax	Total
Year 5	22176	TASER 7 LIVE CARTRIDGE, CLOSE QUARTERS (12-DEGREE) NS	36	$132.80	$0.00	$132.80
Year 5	22177	TASER 7 HOOK-AND-LOOP TRN (HALT) CARTRIDGE, STANDOFF NS	36	$132.80	$0.00	$132.80
Year 5	22177	TASER 7 HOOK-AND-LOOP TRN (HALT) CARTRIDGE, STANDOFF NS	36	$132.80	$0.00	$132.80
Year 5	22178	TASER 7 HOOK-AND-LOOP TRN (HALT) CARTRIDGE, CLOSE QUART NS	36	$132.80	$0.00	$132.80
Year 5	22178	TASER 7 HOOK-AND-LOOP TRN (HALT) CARTRIDGE, CLOSE QUART NS	36	$132.80	$0.00	$132.80
Year 5	22179	TASER 7 INERT CARTRIDGE, STANDOFF (3.5-DEGREE) NS	18	$85.72	$0.00	$85.72
Year 5	22181	TASER 7 INERT CARTRIDGE, CLOSE QUARTERS (12-DEGREE) NS	18	$85.72	$0.00	$85.72
Year 5	70033	WALL MOUNT BRACKET, ASSY, EVIDENCE.COM DOCK	1	$4.02	$0.00	$4.02
Year 5	70033	WALL MOUNT BRACKET, ASSY, EVIDENCE.COM DOCK	3	$12.25	$0.00	$12.25
Year 5	71019	NORTH AMER POWER CORD FOR AB3 8-BAY, AB2 1-BAY / 6-BAY DOCK	1	$1.04	$0.00	$1.04
Year 5	71019	NORTH AMER POWER CORD FOR AB3 8-BAY, AB2 1-BAY / 6-BAY DOCK	3	$0.00	$0.00	$0.00
Year 5	71044	BATTERY, SIGNAL SIDEARM, CR2430 SINGLE PACK	44	$4.22	$0.00	$4.22
Year 5	73202	AXON BODY 3 - NA10 - US - BLK - RAPIDLOCK	22	$1,532.45	$0.00	$1,532.45
Year 5	73309	AXON CAMERA REFRESH ONE	22	$1,705.37	$0.00	$1,705.37
Year 5	73310	AXON CAMERA REFRESH TWO	22	$1,789.59	$0.00	$1,789.59
Year 5	73345	AXON CAMERA REFRESH THREE	22	$1,840.12	$0.00	$1,840.12
Year 5	73346	AXON CAMERA REFRESH FOUR	22	$1,869.60	$0.00	$1,869.60
Year 5	73347	MULTI-BAY BWC DOCK 3RD REFRESH	3	$534.58	$0.00	$534.58
Year 5	73348	MULTI-BAY BWC DOCK 4TH REFRESH	3	$542.62	$0.00	$542.62
Year 5	73449	RESPOND DEVICE LICENSE	22	$1,263.24	$0.00	$1,263.24
Year 5	73683	10 GB EVIDENCE.COM A-LA-CART STORAGE	66	$416.92	$0.00	$416.92
Year 5	73686	EVIDENCE.COM UNLIMITED AXON DEVICE STORAGE	22	$3,706.80	$0.00	$3,706.80
Year 5	73688	MULTI-BAY BWC DOCK 2ND REFRESH	3	$519.65	$0.00	$519.65
Year 5	73689	MULTI-BAY BWC DOCK 1ST REFRESH	3	$494.96	$0.00	$494.96
Year 5	73746	PROFESSIONAL EVIDENCE.COM LICENSE	22	$9,853.40	$0.00	$9,853.40
Year 5	74028	WING CLIP MOUNT, AXON RAPIDLOCK	25	$0.00	$0.00	$0.00
Year 5	74200	TASER 6-BAY DOCK AND CORE	1	$148.88	$0.00	$148.88
Year 5	74210	AXON BODY 3 - 8 BAY DOCK	3	$445.00	$0.00	$445.00
Year 5	75015	SIGNAL SIDEARM KIT	22	$524.24	$0.00	$524.24
Year 5	80087	TASER TARGET, CONDUCTIVE, PROFESSIONAL (RUGGEDIZED)	1	$15.68	$0.00	$15.68
Year 5	80090	TARGET FRAME, PROFESSIONAL, 27.5 IN. X 75 IN., TASER 7	1	$7.84	$0.00	$7.84
Year 5	80374	EXT WARRANTY, TASER 7 BATTERY PACK	21	$100.70	$0.00	$100.70
Year 5	80395	EXT WARRANTY, TASER 7 HANDLE	18	$1,282.16	$0.00	$1,282.16
Year 5	80396	EXT WARRANTY, TASER 7 SIX BAY DOCK	1	$71.23	$0.00	$71.23
Year 5	80464	EXT WARRANTY, CAMERA (TAP)	22	$1,721.17	$0.00	$1,721.17
Year 5	80465	EXT WARRANTY, MULTI-BAY DOCK (TAP)	3	$417.46	$0.00	$417.46
Total				**$41,634.57**	**$0.00**	**$41,634.57**

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Invoice Plan	Item	Description	Qty	Subtotal	Tax	Total
Year 6	11534	USB-C to USB-A CABLE FOR AB3 OR FLEX 2	25	$0.00	$0.00	$0.00
Year 6	20008	TASER 7 HANDLE, YLW, HIGH VISIBILITY (GREEN LASER), CLASS 3R	18	$0.00	$0.00	$0.00
Year 6	20018	TASER BATTERY PACK, TACTICAL	21	$188.81	$0.00	$188.81
Year 6	20160	TASER 7 HOLSTER - SAFARILAND, RH+CART CARRIER	17	$142.17	$0.00	$142.17
Year 6	20161	TASER 7 HOLSTER - SAFARILAND, LH+CART CARRIER	1	$8.36	$0.00	$8.36
Year 6	20242	TASER CERTIFICATION PROGRAM YEAR 6-10 HARDWARE	18	$6,485.35	$0.00	$6,485.35

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Invoice Plan	Item	Description	Qty	Subtotal	Tax	Total
Year 6	20246	TASER 7 DUTY CARTRIDGE REPLACEMENT ACCESS PROGRAM	18	$510.77	$0.00	$510.77
Year 6	20248	TASER 7 EVIDENCE.COM LICENSE	1	$54.99	$0.00	$54.99
Year 6	20248	TASER 7 EVIDENCE.COM LICENSE	18	$989.87	$0.00	$989.87
Year 6	22175	TASER 7 LIVE CARTRIDGE, STANDOFF (3.5-DEGREE) NS	36	$132.80	$0.00	$132.80
Year 6	22175	TASER 7 LIVE CARTRIDGE, STANDOFF (3.5-DEGREE) NS	54	$199.21	$0.00	$199.21
Year 6	22175	TASER 7 LIVE CARTRIDGE, STANDOFF (3.5-DEGREE) NS	36	$132.80	$0.00	$132.80
Year 6	22175	TASER 7 LIVE CARTRIDGE, STANDOFF (3.5-DEGREE) NS	36	$132.80	$0.00	$132.80
Year 6	22175	TASER 7 LIVE CARTRIDGE, STANDOFF (3.5-DEGREE) NS	36	$132.80	$0.00	$132.80
Year 6	22175	TASER 7 LIVE CARTRIDGE, STANDOFF (3.5-DEGREE) NS	36	$132.80	$0.00	$132.80
Year 6	22176	TASER 7 LIVE CARTRIDGE, CLOSE QUARTERS (12-DEGREE) NS	36	$132.80	$0.00	$132.80
Year 6	22176	TASER 7 LIVE CARTRIDGE, CLOSE QUARTERS (12-DEGREE) NS	54	$199.21	$0.00	$199.21
Year 6	22176	TASER 7 LIVE CARTRIDGE, CLOSE QUARTERS (12-DEGREE) NS	36	$132.80	$0.00	$132.80
Year 6	22176	TASER 7 LIVE CARTRIDGE, CLOSE QUARTERS (12-DEGREE) NS	36	$132.80	$0.00	$132.80
Year 6	22176	TASER 7 LIVE CARTRIDGE, CLOSE QUARTERS (12-DEGREE) NS	36	$132.80	$0.00	$132.80
Year 6	22176	TASER 7 LIVE CARTRIDGE, CLOSE QUARTERS (12-DEGREE) NS	36	$132.80	$0.00	$132.80
Year 6	22177	TASER 7 HOOK-AND-LOOP TRN (HALT) CARTRIDGE, STANDOFF NS	36	$132.80	$0.00	$132.80
Year 6	22177	TASER 7 HOOK-AND-LOOP TRN (HALT) CARTRIDGE, STANDOFF NS	36	$132.80	$0.00	$132.80
Year 6	22178	TASER 7 HOOK-AND-LOOP TRN (HALT) CARTRIDGE, CLOSE QUART NS	36	$132.80	$0.00	$132.80
Year 6	22178	TASER 7 HOOK-AND-LOOP TRN (HALT) CARTRIDGE, CLOSE QUART NS	36	$132.80	$0.00	$132.80
Year 6	22179	TASER 7 INERT CARTRIDGE, STANDOFF (3.5-DEGREE) NS	18	$85.72	$0.00	$85.72
Year 6	22181	TASER 7 INERT CARTRIDGE, CLOSE QUARTERS (12-DEGREE) NS	18	$85.72	$0.00	$85.72
Year 6	70033	WALL MOUNT BRACKET, ASSY, EVIDENCE.COM DOCK	1	$4.02	$0.00	$4.02
Year 6	70033	WALL MOUNT BRACKET, ASSY, EVIDENCE.COM DOCK	3	$12.25	$0.00	$12.25
Year 6	71019	NORTH AMER POWER CORD FOR AB3 8-BAY, AB2 1-BAY / 6-BAY DOCK	1	$1.04	$0.00	$1.04
Year 6	71019	NORTH AMER POWER CORD FOR AB3 8-BAY, AB2 1-BAY / 6-BAY DOCK	3	$0.00	$0.00	$0.00
Year 6	71044	BATTERY, SIGNAL SIDEARM, CR2430 SINGLE PACK	44	$4.22	$0.00	$4.22
Year 6	73202	AXON BODY 3 - NA10 - US - BLK - RAPIDLOCK	22	$1,532.45	$0.00	$1,532.45
Year 6	73309	AXON CAMERA REFRESH ONE	22	$1,705.37	$0.00	$1,705.37
Year 6	73310	AXON CAMERA REFRESH TWO	22	$1,789.59	$0.00	$1,789.59
Year 6	73345	AXON CAMERA REFRESH THREE	22	$1,840.12	$0.00	$1,840.12
Year 6	73346	AXON CAMERA REFRESH FOUR	22	$1,869.60	$0.00	$1,869.60
Year 6	73347	MULTI-BAY BWC DOCK 3RD REFRESH	3	$534.58	$0.00	$534.58
Year 6	73348	MULTI-BAY BWC DOCK 4TH REFRESH	3	$542.62	$0.00	$542.62
Year 6	73449	RESPOND DEVICE LICENSE	22	$1,263.24	$0.00	$1,263.24
Year 6	73683	10 GB EVIDENCE.COM A-LA-CART STORAGE	66	$416.92	$0.00	$416.92
Year 6	73686	EVIDENCE.COM UNLIMITED AXON DEVICE STORAGE	22	$3,706.80	$0.00	$3,706.80
Year 6	73688	MULTI-BAY BWC DOCK 2ND REFRESH	3	$519.65	$0.00	$519.65
Year 6	73689	MULTI-BAY BWC DOCK 1ST REFRESH	3	$494.96	$0.00	$494.96
Year 6	73746	PROFESSIONAL EVIDENCE.COM LICENSE	22	$9,853.40	$0.00	$9,853.40
Year 6	74028	WING CLIP MOUNT, AXON RAPIDLOCK	25	$0.00	$0.00	$0.00
Year 6	74200	TASER 6-BAY DOCK AND CORE	1	$148.88	$0.00	$148.88
Year 6	74210	AXON BODY 3 - 8 BAY DOCK	3	$445.00	$0.00	$445.00
Year 6	75015	SIGNAL SIDEARM KIT	22	$524.24	$0.00	$524.24
Year 6	80087	TASER TARGET, CONDUCTIVE, PROFESSIONAL (RUGGEDIZED)	1	$15.68	$0.00	$15.68
Year 6	80090	TARGET FRAME, PROFESSIONAL, 27.5 IN. X 75 IN., TASER 7	1	$7.84	$0.00	$7.84
Year 6	80374	EXT WARRANTY, TASER 7 BATTERY PACK	21	$100.70	$0.00	$100.70
Year 6	80395	EXT WARRANTY, TASER 7 HANDLE	18	$1,282.16	$0.00	$1,282.16

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Invoice Plan	Item	Description	Qty	Subtotal	Tax	Total
Year 6	80396	EXT WARRANTY, TASER 7 SIX BAY DOCK	1	$71.23	$0.00	$71.23
Year 6	80464	EXT WARRANTY, CAMERA (TAP)	22	$1,721.17	$0.00	$1,721.17
Year 6	80465	EXT WARRANTY, MULTI-BAY DOCK (TAP)	3	$417.46	$0.00	$417.46
Total				**$41,634.57**	**$0.00**	**$41,634.57**

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Invoice Plan	Item	Description	Qty	Subtotal	Tax	Total
Year 7	11534	USB-C to USB-A CABLE FOR AB3 OR FLEX 2	25	$0.00	$0.00	$0.00
Year 7	20008	TASER 7 HANDLE, YLW, HIGH VISIBILITY (GREEN LASER), CLASS 3R	18	$0.00	$0.00	$0.00
Year 7	20018	TASER BATTERY PACK, TACTICAL	21	$188.81	$0.00	$188.81
Year 7	20160	TASER 7 HOLSTER - SAFARILAND, RH+CART CARRIER	17	$142.17	$0.00	$142.17
Year 7	20161	TASER 7 HOLSTER - SAFARILAND, LH+CART CARRIER	1	$8.36	$0.00	$8.36
Year 7	20242	TASER CERTIFICATION PROGRAM YEAR 6-10 HARDWARE	18	$6,485.35	$0.00	$6,485.35
Year 7	20246	TASER 7 DUTY CARTRIDGE REPLACEMENT ACCESS PROGRAM	18	$510.77	$0.00	$510.77
Year 7	20248	TASER 7 EVIDENCE.COM LICENSE	1	$54.99	$0.00	$54.99
Year 7	20248	TASER 7 EVIDENCE.COM LICENSE	18	$989.87	$0.00	$989.87
Year 7	22175	TASER 7 LIVE CARTRIDGE, STANDOFF (3.5-DEGREE) NS	36	$132.80	$0.00	$132.80
Year 7	22175	TASER 7 LIVE CARTRIDGE, STANDOFF (3.5-DEGREE) NS	54	$199.21	$0.00	$199.21
Year 7	22175	TASER 7 LIVE CARTRIDGE, STANDOFF (3.5-DEGREE) NS	36	$132.80	$0.00	$132.80
Year 7	22175	TASER 7 LIVE CARTRIDGE, STANDOFF (3.5-DEGREE) NS	36	$132.80	$0.00	$132.80
Year 7	22175	TASER 7 LIVE CARTRIDGE, STANDOFF (3.5-DEGREE) NS	36	$132.80	$0.00	$132.80
Year 7	22175	TASER 7 LIVE CARTRIDGE, STANDOFF (3.5-DEGREE) NS	36	$132.80	$0.00	$132.80
Year 7	22176	TASER 7 LIVE CARTRIDGE, CLOSE QUARTERS (12-DEGREE) NS	36	$132.80	$0.00	$132.80
Year 7	22176	TASER 7 LIVE CARTRIDGE, CLOSE QUARTERS (12-DEGREE) NS	54	$199.21	$0.00	$199.21
Year 7	22176	TASER 7 LIVE CARTRIDGE, CLOSE QUARTERS (12-DEGREE) NS	36	$132.80	$0.00	$132.80
Year 7	22176	TASER 7 LIVE CARTRIDGE, CLOSE QUARTERS (12-DEGREE) NS	36	$132.80	$0.00	$132.80
Year 7	22176	TASER 7 LIVE CARTRIDGE, CLOSE QUARTERS (12-DEGREE) NS	36	$132.80	$0.00	$132.80
Year 7	22176	TASER 7 LIVE CARTRIDGE, CLOSE QUARTERS (12-DEGREE) NS	36	$132.80	$0.00	$132.80
Year 7	22177	TASER 7 HOOK-AND-LOOP TRN (HALT) CARTRIDGE, STANDOFF NS	36	$132.80	$0.00	$132.80
Year 7	22177	TASER 7 HOOK-AND-LOOP TRN (HALT) CARTRIDGE, STANDOFF NS	36	$132.80	$0.00	$132.80
Year 7	22178	TASER 7 HOOK-AND-LOOP TRN (HALT) CARTRIDGE, CLOSE QUART NS	36	$132.80	$0.00	$132.80
Year 7	22178	TASER 7 HOOK-AND-LOOP TRN (HALT) CARTRIDGE, CLOSE QUART NS	36	$132.80	$0.00	$132.80
Year 7	22179	TASER 7 INERT CARTRIDGE, STANDOFF (3.5-DEGREE) NS	18	$85.72	$0.00	$85.72
Year 7	22181	TASER 7 INERT CARTRIDGE, CLOSE QUARTERS (12-DEGREE) NS	18	$85.72	$0.00	$85.72
Year 7	70033	WALL MOUNT BRACKET, ASSY, EVIDENCE.COM DOCK	1	$4.02	$0.00	$4.02
Year 7	70033	WALL MOUNT BRACKET, ASSY, EVIDENCE.COM DOCK	3	$12.25	$0.00	$12.25
Year 7	71019	NORTH AMER POWER CORD FOR AB3 8-BAY, AB2 1-BAY / 6-BAY DOCK	1	$1.04	$0.00	$1.04
Year 7	71019	NORTH AMER POWER CORD FOR AB3 8-BAY, AB2 1-BAY / 6-BAY DOCK	3	$0.00	$0.00	$0.00
Year 7	71044	BATTERY, SIGNAL SIDEARM, CR2430 SINGLE PACK	44	$4.22	$0.00	$4.22
Year 7	73202	AXON BODY 3 - NA10 - US - BLK - RAPIDLOCK	22	$1,532.45	$0.00	$1,532.45
Year 7	73309	AXON CAMERA REFRESH ONE	22	$1,705.37	$0.00	$1,705.37
Year 7	73310	AXON CAMERA REFRESH TWO	22	$1,789.59	$0.00	$1,789.59
Year 7	73345	AXON CAMERA REFRESH THREE	22	$1,840.12	$0.00	$1,840.12
Year 7	73346	AXON CAMERA REFRESH FOUR	22	$1,869.60	$0.00	$1,869.60
Year 7	73347	MULTI-BAY BWC DOCK 3RD REFRESH	3	$534.58	$0.00	$534.58
Year 7	73348	MULTI-BAY BWC DOCK 4TH REFRESH	3	$542.62	$0.00	$542.62

Jul 2030

Invoice Plan	Item	Description	Qty	Subtotal	Tax	Total
Year 7	73449	RESPOND DEVICE LICENSE	22	$1,263.24	$0.00	$1,263.24
Year 7	73683	10 GB EVIDENCE.COM A-LA-CART STORAGE	66	$416.92	$0.00	$416.92
Year 7	73686	EVIDENCE.COM UNLIMITED AXON DEVICE STORAGE	22	$3,706.80	$0.00	$3,706.80
Year 7	73688	MULTI-BAY BWC DOCK 2ND REFRESH	3	$519.65	$0.00	$519.65
Year 7	73689	MULTI-BAY BWC DOCK 1ST REFRESH	3	$494.96	$0.00	$494.96
Year 7	73746	PROFESSIONAL EVIDENCE.COM LICENSE	22	$9,853.40	$0.00	$9,853.40
Year 7	74028	WING CLIP MOUNT, AXON RAPIDLOCK	25	$0.00	$0.00	$0.00
Year 7	74200	TASER 6-BAY DOCK AND CORE	1	$148.88	$0.00	$148.88
Year 7	74210	AXON BODY 3 - 8 BAY DOCK	3	$445.00	$0.00	$445.00
Year 7	75015	SIGNAL SIDEARM KIT	22	$524.24	$0.00	$524.24
Year 7	80087	TASER TARGET, CONDUCTIVE, PROFESSIONAL (RUGGEDIZED)	1	$15.68	$0.00	$15.68
Year 7	80090	TARGET FRAME, PROFESSIONAL, 27.5 IN. X 75 IN., TASER 7	1	$7.84	$0.00	$7.84
Year 7	80374	EXT WARRANTY, TASER 7 BATTERY PACK	21	$100.70	$0.00	$100.70
Year 7	80395	EXT WARRANTY, TASER 7 HANDLE	18	$1,282.16	$0.00	$1,282.16
Year 7	80396	EXT WARRANTY, TASER 7 SIX BAY DOCK	1	$71.23	$0.00	$71.23
Year 7	80464	EXT WARRANTY, CAMERA (TAP)	22	$1,721.17	$0.00	$1,721.17
Year 7	80465	EXT WARRANTY, MULTI-BAY DOCK (TAP)	3	$417.46	$0.00	$417.46
Total				**$41,634.57**	**$0.00**	**$41,634.57**

Jul 2031

Invoice Plan	Item	Description	Qty	Subtotal	Tax	Total
Year 8	11534	USB-C to USB-A CABLE FOR AB3 OR FLEX 2	25	$0.00	$0.00	$0.00
Year 8	20008	TASER 7 HANDLE, YLW, HIGH VISIBILITY (GREEN LASER), CLASS 3R	18	$0.00	$0.00	$0.00
Year 8	20018	TASER BATTERY PACK, TACTICAL	21	$188.81	$0.00	$188.81
Year 8	20160	TASER 7 HOLSTER - SAFARILAND, RH+CART CARRIER	17	$142.17	$0.00	$142.17
Year 8	20161	TASER 7 HOLSTER - SAFARILAND, LH+CART CARRIER	1	$8.36	$0.00	$8.36
Year 8	20242	TASER CERTIFICATION PROGRAM YEAR 6-10 HARDWARE	18	$6,485.35	$0.00	$6,485.35
Year 8	20246	TASER 7 DUTY CARTRIDGE REPLACEMENT ACCESS PROGRAM	18	$510.77	$0.00	$510.77
Year 8	20248	TASER 7 EVIDENCE.COM LICENSE	1	$54.99	$0.00	$54.99
Year 8	20248	TASER 7 EVIDENCE.COM LICENSE	18	$989.87	$0.00	$989.87
Year 8	22175	TASER 7 LIVE CARTRIDGE, STANDOFF (3.5-DEGREE) NS	36	$132.80	$0.00	$132.80
Year 8	22175	TASER 7 LIVE CARTRIDGE, STANDOFF (3.5-DEGREE) NS	54	$199.21	$0.00	$199.21
Year 8	22175	TASER 7 LIVE CARTRIDGE, STANDOFF (3.5-DEGREE) NS	36	$132.80	$0.00	$132.80
Year 8	22175	TASER 7 LIVE CARTRIDGE, STANDOFF (3.5-DEGREE) NS	36	$132.80	$0.00	$132.80
Year 8	22175	TASER 7 LIVE CARTRIDGE, STANDOFF (3.5-DEGREE) NS	36	$132.80	$0.00	$132.80
Year 8	22175	TASER 7 LIVE CARTRIDGE, STANDOFF (3.5-DEGREE) NS	36	$132.80	$0.00	$132.80
Year 8	22176	TASER 7 LIVE CARTRIDGE, CLOSE QUARTERS (12-DEGREE) NS	36	$132.80	$0.00	$132.80
Year 8	22176	TASER 7 LIVE CARTRIDGE, CLOSE QUARTERS (12-DEGREE) NS	54	$199.21	$0.00	$199.21
Year 8	22176	TASER 7 LIVE CARTRIDGE, CLOSE QUARTERS (12-DEGREE) NS	36	$132.80	$0.00	$132.80
Year 8	22176	TASER 7 LIVE CARTRIDGE, CLOSE QUARTERS (12-DEGREE) NS	36	$132.80	$0.00	$132.80
Year 8	22176	TASER 7 LIVE CARTRIDGE, CLOSE QUARTERS (12-DEGREE) NS	36	$132.80	$0.00	$132.80
Year 8	22176	TASER 7 LIVE CARTRIDGE, CLOSE QUARTERS (12-DEGREE) NS	36	$132.80	$0.00	$132.80
Year 8	22177	TASER 7 HOOK-AND-LOOP TRN (HALT) CARTRIDGE, STANDOFF NS	36	$132.80	$0.00	$132.80
Year 8	22177	TASER 7 HOOK-AND-LOOP TRN (HALT) CARTRIDGE, STANDOFF NS	36	$132.80	$0.00	$132.80
Year 8	22178	TASER 7 HOOK-AND-LOOP TRN (HALT) CARTRIDGE, CLOSE QUART NS	36	$132.80	$0.00	$132.80
Year 8	22178	TASER 7 HOOK-AND-LOOP TRN (HALT) CARTRIDGE, CLOSE QUART NS	36	$132.80	$0.00	$132.80

Jul 2031

Invoice Plan	Item	Description	Qty	Subtotal	Tax	Total
Year 8	22179	TASER 7 INERT CARTRIDGE, STANDOFF (3.5-DEGREE) NS	18	$85.72	$0.00	$85.72
Year 8	22181	TASER 7 INERT CARTRIDGE, CLOSE QUARTERS (12-DEGREE) NS	18	$85.72	$0.00	$85.72
Year 8	70033	WALL MOUNT BRACKET, ASSY, EVIDENCE.COM DOCK	1	$4.02	$0.00	$4.02
Year 8	70033	WALL MOUNT BRACKET, ASSY, EVIDENCE.COM DOCK	3	$12.25	$0.00	$12.25
Year 8	71019	NORTH AMER POWER CORD FOR AB3 8-BAY, AB2 1-BAY / 6-BAY DOCK	1	$1.04	$0.00	$1.04
Year 8	71019	NORTH AMER POWER CORD FOR AB3 8-BAY, AB2 1-BAY / 6-BAY DOCK	3	$0.00	$0.00	$0.00
Year 8	71044	BATTERY, SIGNAL SIDEARM, CR2430 SINGLE PACK	44	$4.22	$0.00	$4.22
Year 8	73202	AXON BODY 3 - NA10 - US - BLK - RAPIDLOCK	22	$1,532.45	$0.00	$1,532.45
Year 8	73309	AXON CAMERA REFRESH ONE	22	$1,705.37	$0.00	$1,705.37
Year 8	73310	AXON CAMERA REFRESH TWO	22	$1,789.59	$0.00	$1,789.59
Year 8	73345	AXON CAMERA REFRESH THREE	22	$1,840.12	$0.00	$1,840.12
Year 8	73346	AXON CAMERA REFRESH FOUR	22	$1,869.60	$0.00	$1,869.60
Year 8	73347	MULTI-BAY BWC DOCK 3RD REFRESH	3	$534.58	$0.00	$534.58
Year 8	73348	MULTI-BAY BWC DOCK 4TH REFRESH	3	$542.62	$0.00	$542.62
Year 8	73449	RESPOND DEVICE LICENSE	22	$1,263.24	$0.00	$1,263.24
Year 8	73683	10 GB EVIDENCE.COM A-LA-CART STORAGE	66	$416.92	$0.00	$416.92
Year 8	73686	EVIDENCE.COM UNLIMITED AXON DEVICE STORAGE	22	$3,706.80	$0.00	$3,706.80
Year 8	73688	MULTI-BAY BWC DOCK 2ND REFRESH	3	$519.65	$0.00	$519.65
Year 8	73689	MULTI-BAY BWC DOCK 1ST REFRESH	3	$494.96	$0.00	$494.96
Year 8	73746	PROFESSIONAL EVIDENCE.COM LICENSE	22	$9,853.40	$0.00	$9,853.40
Year 8	74028	WING CLIP MOUNT, AXON RAPIDLOCK	25	$0.00	$0.00	$0.00
Year 8	74200	TASER 6-BAY DOCK AND CORE	1	$148.88	$0.00	$148.88
Year 8	74210	AXON BODY 3 - 8 BAY DOCK	3	$445.00	$0.00	$445.00
Year 8	75015	SIGNAL SIDEARM KIT	22	$524.24	$0.00	$524.24
Year 8	80087	TASER TARGET, CONDUCTIVE, PROFESSIONAL (RUGGEDIZED)	1	$15.68	$0.00	$15.68
Year 8	80090	TARGET FRAME, PROFESSIONAL, 27.5 IN. X 75 IN., TASER 7	1	$7.84	$0.00	$7.84
Year 8	80374	EXT WARRANTY, TASER 7 BATTERY PACK	21	$100.70	$0.00	$100.70
Year 8	80395	EXT WARRANTY, TASER 7 HANDLE	18	$1,282.16	$0.00	$1,282.16
Year 8	80396	EXT WARRANTY, TASER 7 SIX BAY DOCK	1	$71.23	$0.00	$71.23
Year 8	80464	EXT WARRANTY, CAMERA (TAP)	22	$1,721.17	$0.00	$1,721.17
Year 8	80465	EXT WARRANTY, MULTI-BAY DOCK (TAP)	3	$417.46	$0.00	$417.46
Total				**$41,634.57**	**$0.00**	**$41,634.57**

Jul 2032

Invoice Plan	Item	Description	Qty	Subtotal	Tax	Total
Year 9	11534	USB-C to USB-A CABLE FOR AB3 OR FLEX 2	25	$0.00	$0.00	$0.00
Year 9	20008	TASER 7 HANDLE, YLW, HIGH VISIBILITY (GREEN LASER), CLASS 3R	18	$0.00	$0.00	$0.00
Year 9	20018	TASER BATTERY PACK, TACTICAL	21	$188.81	$0.00	$188.81
Year 9	20160	TASER 7 HOLSTER - SAFARILAND, RH+CART CARRIER	17	$142.17	$0.00	$142.17
Year 9	20161	TASER 7 HOLSTER - SAFARILAND, LH+CART CARRIER	1	$8.36	$0.00	$8.36
Year 9	20242	TASER CERTIFICATION PROGRAM YEAR 6-10 HARDWARE	18	$6,485.35	$0.00	$6,485.35
Year 9	20246	TASER 7 DUTY CARTRIDGE REPLACEMENT ACCESS PROGRAM	18	$510.77	$0.00	$510.77
Year 9	20248	TASER 7 EVIDENCE.COM LICENSE	1	$54.99	$0.00	$54.99
Year 9	20248	TASER 7 EVIDENCE.COM LICENSE	18	$989.87	$0.00	$989.87
Year 9	22175	TASER 7 LIVE CARTRIDGE, STANDOFF (3.5-DEGREE) NS	36	$132.80	$0.00	$132.80
Year 9	22175	TASER 7 LIVE CARTRIDGE, STANDOFF (3.5-DEGREE) NS	54	$199.21	$0.00	$199.21

Jul 2032

Invoice Plan	Item	Description	Qty	Subtotal	Tax	Total
Year 9	22175	TASER 7 LIVE CARTRIDGE, STANDOFF (3.5-DEGREE) NS	36	$132.80	$0.00	$132.80
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Year 9	22176	TASER 7 LIVE CARTRIDGE, CLOSE QUARTERS (12-DEGREE) NS	36	$132.80	$0.00	$132.80
Year 9	22176	TASER 7 LIVE CARTRIDGE, CLOSE QUARTERS (12-DEGREE) NS	54	$199.21	$0.00	$199.21
Year 9	22176	TASER 7 LIVE CARTRIDGE, CLOSE QUARTERS (12-DEGREE) NS	36	$132.80	$0.00	$132.80
Year 9	22176	TASER 7 LIVE CARTRIDGE, CLOSE QUARTERS (12-DEGREE) NS	36	$132.80	$0.00	$132.80
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Year 9	22176	TASER 7 LIVE CARTRIDGE, CLOSE QUARTERS (12-DEGREE) NS	36	$132.80	$0.00	$132.80
Year 9	22177	TASER 7 HOOK-AND-LOOP TRN (HALT) CARTRIDGE, STANDOFF NS	36	$132.80	$0.00	$132.80
Year 9	22177	TASER 7 HOOK-AND-LOOP TRN (HALT) CARTRIDGE, STANDOFF NS	36	$132.80	$0.00	$132.80
Year 9	22178	TASER 7 HOOK-AND-LOOP TRN (HALT) CARTRIDGE, CLOSE QUART NS	36	$132.80	$0.00	$132.80
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Year 9	22179	TASER 7 INERT CARTRIDGE, STANDOFF (3.5-DEGREE) NS	18	$85.72	$0.00	$85.72
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Total				**$41,634.57**	**$0.00**	**$41,634.57**

Non-Binding Budgetary Estimate

This Rough Order of Magnitude estimate is being provided for budgetary and planning purposes only. It is non-binding and is not considered a contractable offer for sale of Axon goods or services.

Tax is estimated based on rates applicable at date of quote and subject to change at time of invoicing. If a tax exemption certificate should be applied, please submit prior to invoicing.

Exceptions to Standard Terms and Conditions

100% discounted CEW hardware contained in this quote reflects a TAP replacement for hardware purchased under existing contract #00018403 (f_shell 00062500).
All TAP obligations from this contract will be considered fulfilled upon execution of this quote and will require all pending/existing invoices aligned to 00018403 (f_shell 00062500) to be paid in full

City of Barre, Vermont

"Granite Center of the World"

ACTION ITEM BRIEFING MEMO
CITY COUNCIL AGENDA: 11/7/2023

Agenda Item No. 8-B

AGENDA ITEM DESCRIPTION: Authorize Friends of the Winooski to proceed with dam removal projects

SUBJECT: Preliminary designs for the removal of three dams

SUBMITTING DEPARTMENT/PERSON: Michele Braun, Friends of the Winooski

STAFF RECCOMENDATION: N/A

BACKGROUND INFORMATION:

The City owns two dams, Jockey Hollow and Habbep, which have not been in service for decades. The dams have negative impacts on the Stevens Branch water quality, flood resilience, and fish populations. They are also a source of potential liability for the City. The City supported Friends of the Winooski's management of a feasibility study and preliminary design completed by Stone Environmental, Inc. This initial design phase is finished, and Friends of the Winooski will be presenting the findings to the City for consideration. Friends of the Winooski has funds in hand for the additional engineering work required to complete final designs and to obtain permits for the removal of the dams.

Friends of the Winooski will be requesting the Council's approval to proceed to the next phase of the project.

EXPENDITURE AND FUNDING SOURCE: No costs to the City. The project is fully funded by grants to Friends of the Winooski River from state and federal fish and wildlife programs

LEGAL AUTHORITY/REQUIREMENTS: The City owns the two dams

ATTACHMENT(S): (1) 30% Design Report, (2) Plans, Findings and Analyses

RECOMMENDED ACTION/MOTION:

Move to accept the update and authorize the Friends of the Winooski to proceed with dam removal projects.

30% Design Report: Removal of the Jockey Hollow, Habbep, & Brooklyn Street Dams

STONE ENVIRONMENTAL

PROJECT NO.

20211186

REVIEWED BY:

GMB/CRT

PREPARED FOR:

Michele Braun / *Executive Director*
Friends of the Winooski River
PO Box 777
michele@winooskiriver.org
802.279.3771

SUBMITTED BY:

Meghan Arpino / *Project Hydrologist*
Stone Environmental, Inc.
535 Stone Cutters Way
Montpelier / VT 05602
marpino@stone-env.com
845.323.3436

30% Design Report: Jockey Hollow, Habbep, & Brooklyn Street Dam Removals

Cover Photo: View of Brooklyn Street Dam looking upstream.

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30% Design Report

1.1. Introduction

Stone Environmental, Inc. (Stone) was retained by the Friends of the Winooski River (FWR) in the fall of 2021 to develop a feasibility study and preliminary designs for the removal of the Jockey Hollow, Habbep, and Brooklyn Street Dams. The dams are located along the sections of Stevens Branch flowing through the City of Barre (City) and Town of Barre (Town), Vermont. These dams are targeted for removal due to the potential benefits associated with restoring aquatic organism passage (AOP), improving water quality, and increasing flood resiliency throughout the City and Town. Their removal will also lead to improvements to dynamic stream equilibrium, floodplain/wetland connectivity, habitat quality for aquatic and terrestrial organisms, and public access to river-based education and recreation opportunities. This project was supported by a Vermont Fish & Wildlife Department State Wildlife Grant and by a Vermont Department of Environmental Conservation Ecological Restoration Program Grant.

The goals of this project are to 1) restore natural flow conveyance and sediment transport through the reach, 2) improve water quality in Stevens Branch and downstream waterbodies, 3) reconnect the channel to adjacent floodplains, and 4) restore AOP for fish (i.e., brook trout and other resident fish) and other aquatic and terrestrial organisms.

1.2. Site Descriptions

Stevens Branch originates in Williamstown, then generally flows north until its confluence with the Winooski River near the intersection of US Routes 302 and 2 in Montpelier. During this 13-mile journey, the Stevens Branch is impeded by the Jockey Hollow, Habbep, and Brooklyn Street Dams and receives inputs from numerous tributaries. From the most downstream dam at Brooklyn Street, the Stevens Branch flows approximately 5.25 miles northwest prior to discharging into the Winooski River. The watershed areas for each dam, from upstream to downstream, are 34.1, 34.8, and 83.7 square miles, respectively (StreamStats, 2022). The Jail Branch discharges into the Stevens Branch from the east in the vicinity of Spaulding High School and South Main Street in the City (between Habbep and Brooklyn Street Dams), and accounts for a considerable amount of tributary flow to the Stevens Branch. As a result, the drainage area at the Brooklyn Street Dam is more than double the drainage area for Habbep Dam. Of the 83.7 square miles that drains to the Brooklyn Street Dam, 9.1% is considered developed land and 2.4% is listed as impervious area (StreamStats, 2022). Additional details on each dam are provided below.

1.2.1. Jockey Hollow Dam

The Jockey Hollow Dam is in Barre Town, approximately 8.5 miles from the headwaters of Stevens Branch, and is the most upstream of the three dams (Station 9+07, see Sheet 10 of Attachment 1). The bankfull width of the channel directly upstream of the dam ranges from 36.4 feet to 70.5 feet, with bankfull depths from 2.6 feet to 4.2 feet.

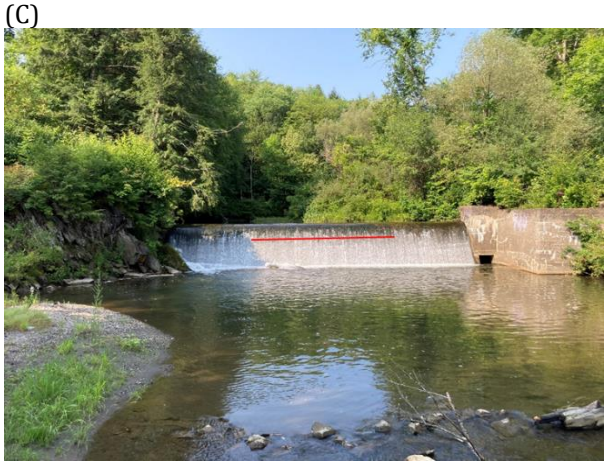
The dam was constructed in 1933 for water supply and is currently owned by the City. The dam's crest is 8.5 feet high and 55 feet long. According to the Vermont Agency of Natural Resources (ANR) Natural Resource Atlas, the dam currently has a hazard classification of "Minimal Hazard Potential". This means that the dam does not require inspection, and failure is not expected to result in direct loss of life, major or extensive damage to public or private infrastructure. On river left of the dam (looking downstream) is a stand-alone concrete abutment approximately 20 feet long that has some signs of cracking but otherwise stands in good condition (Figure 1A). The main structural component of this abutment has suffered. River right of the dam features a concrete abutment built into existing bedrock (Figure 1B). The main dam crest appears to be intact; however, there is a lateral crack, approximately halfway from the top of the crest to the water surface below, through which water flows (Figure 1C). There are multiple pipes in the channel along the river left on the dam's downstream side; however, these pipes are inactive relics of the former water supply system.

The bed material upstream of the dam is primarily sand for approximately 300 feet, then it transitions into bedrock and boulders. The impoundment and associated sediment wedge extend approximately 325 ft upstream of the dam. From Station 4+90 to 5+75 (85 linear feet), the channel features an approximately 25' tall bedrock cascade. The dominant bed material below the dam is gravel for approximately 400 feet. The reach of Stevens Branch below Jockey Hollow Dam is under backwater conditions from Habbep Dam located downstream.

(A)

(B)

(C)



(D)

Figure 1. A) Looking upstream at dam and concrete abutment on river left. B) Looking upstream at dam and concrete abutment on river right. C) Main dam structure with red line highlighting approximate elevation of lateral cracking. D) Looking downstream from gravel and sand bar along river right downstream of Jockey Hollow.

1.2.2. Habbep Dam

Habbep Dam is the middle of the three dams and is located at Station 44+25, approximately 3,300 linear feet downstream of the Jockey Hollow Dam and 2,275 linear feet upstream of the Jail Branch confluence. The dam is 102 feet long, 10 feet high, and owned by the City. No visible damage to the dam was observed during site visits. A significant amount of large woody debris was resting on the dam during the site assessment (Figure 2B). Aerial imagery confirms large woody debris has caused obstructions at this dam since at least 2012. There is also a significant amount of waste material (slabs of granite, metal scrap, etc.) along the river right dam embankment. According to the Vermont ANR Natural Resource Atlas, the dam currently has a hazard classification of "Low Hazard Potential", which means that the dam is not expected to result in direct loss of life, no major or extensive damage to public or private infrastructure and requires inspection every ten years.

Upstream of the dam, bankfull width ranges from 40.1 – 47.6 feet and bankfull depths range from 3.1 – 4.8 feet (Table 1). The bed material is dominated by gravel and sand, with some fine sand. Approximately 1,500 linear feet upstream of the dam the bed material transitions to predominately sand.

Immediately downstream of the dam, flow splits into three distinct channels which circumnavigate large mid-channel islands. For approximately 350 feet downstream of the dam, these three channels are dominated by exposed bedrock and feature a step-pool/cascade morphology (Figure 2C). While fish passage in the main channel is unlikely due to the bedrock cascades, local fishermen have observed that the small channel on river right provides fish passage, though this was not confirmed during Stone's site visits. This reach of Stevens Branch has a slope of 5.1%. Downstream of the steep cascade, the Stevens Branch returns to a single-thread channel having an average bankfull width of approximately 20-25 feet and a slope of 0.3%.

A)

B)

C)

Figure 2. A) View looking upstream from the center of the channel immediately upstream of dam. B) View from center of channel looking upstream at dam with debris. C) View looking upstream of the river left cascade and step-pool reach located downstream of the dam, with the dam visible at the top of the cascade.

1.2.3. Brooklyn Street Dam

The Brooklyn Street Dam is the most downstream of the three dams and the only one owned by a private party (Trow and Holden Co., owner of the property immediately adjacent to the dam on river right). The dam is located at Station 81+70 and is approximately 3,700 liner feet downstream of the Habbep Dam and 1,470 linear feet downstream of the Jail Branch confluence. The dam crest is approximately 120 feet in length and 4.7 to 7.5 feet in height and has suffered significant damage. The dam crest is broken along its length, resulting in a lowered invert height (i.e., 4.7 feet). It is unclear if this was done intentionally or if it is the result of a failure. According to the Vermont ANR Natural Resource Atlas, the dam currently has a dam hazard classification of "Minimal Hazard Potential". The dam foundation is suspected to be attached to the foundation of the adjacent building owned by Trow and Holden Co. (Attachment 1, Sheet 9); therefore, removal will require fine attention to detail, careful planning, and possibly structural analysis in the 100% design phase. Downstream of the dam and Trow and Holden Co. property, an approximately 10- to 15-foot-high vertical concrete retaining wall borders the channel on both sides.

Existing channel bankfull width measurements taken upstream of the dam ranged from 63.5 - 68.8 feet and bankfull depth measurements from 3.7 - 4.4 feet (Table 1). The channel bed material is dominated by gravel upstream of the dam until the Jail Branch confluence where there is significant sediment aggradation and the channel transitions to a primarily gravel and cobble bed for approximately 200 feet. Bedrock outcrops are observed along the left bank and in the main channel immediately downstream of the dam. These bedrock outcrops provide a potential permanent grade control (Figure 3 and Attachment 1, Sheet 7). Downstream of the bedrock feature the channel is dominated by a gravel cobble bed and has a slope of 0.2%.

Overall benefits of removing the Brooklyn Street Dam include improved water quality, restored sediment transport, and increased aquatic organism passage along the Stevens and Jail Branches. Removal of the dam will reconnect approximately 4.1 miles of stream along Jail Branch and 1,850 linear feet along Stevens Branch. The dam has been breached for some time, and the volume of impounded sediment remaining behind the dam is low relative to the other two dams. Removing this dam would therefore be unlikely to lead to the release of significant fine sediment. It is anticipated that there will be minimal impacts to flood resilience due to the presence of both the bedrock grade control and the concrete retaining walls downstream of the dam.

A)

B)

Figure 3. A) View looking upstream at dam with orange arrows pointing to the dam crest and yellow arrow pointing to the downstream bedrock outcrop. B) Aerial view of Brooklyn Street Dam with Trow and Holden property and building along river right.

1.3. Existing Conditions

1.3.1. Initial Geomorphic Assessment

Between October 27th – 29th 2021, Stone completed a limited geomorphic assessment in the vicinity of each dam to develop an understanding of geomorphic conditions within the project area. As part of the assessment, bankfull indicators were identified and recorded. At each set of bankfull indicators, the thalweg elevation, streambed sediment characteristics, and habitat type were recorded. Field data were compiled and combined with the channel and floodplain basemap created in AutoCAD. Bankfull width, bankfull depth, and flood-prone width measurements were estimated at each bankfull indicator location using the AutoCAD basemap and thalweg shots. Entrenchment ratios were calculated by dividing the flood-prone width by the bankfull width. Per the Rosgen Stream Classification Technique (USDA, 2007; Figure TS3E-5, https://directives.sc.egov.usda.gov/OpenNonWebContent .aspx?content=17833.wba), entrenchment ratios of greater than 2.2 are considered 'Slightly Entrenched' and are generally well connected to adjacent floodplains, ratios between 1.41 and 2.2 are considered 'Moderately Entrenched', and ratios between 1.0- to 1.4 are considered 'Entrenched'. Observations and measurements were obtained at eleven locations summarized in Table 1.

Table 1: Summary of geomorphic data near Jockey Hollow, Habbep, and Brooklyn Street dams

XS number	Distance from dam (ft)[1]	Bankfull width (ft)	Bankfull depth (ft)	Entrenchment ratio	Channel description
Brooklyn Street Dam					
1	110	63.5	3.7	1.5	Impoundment
2	178	68.8	4.4	1.4	Run
Habbep Dam					
3	80	39.9	4.8	5.4	Impoundment
4	122	40.1	3.1	3.1	Impounded reach
5	239	46.7	6	3.7	Pool
Jockey Hollow Dam					
6	-205	45.4	4.2	5.8	Run
7	-144	36.4	3.8	2.1	Run
8	36	41.2	4.3	3.5	Pool
9	65	46.4	5	3.5	Pool
10	164	70.5	4.1	1.9	Pool
11	249	61.1	2.8	2.2	Riffle

Abbreviations: ft = feet

[1]Distance from dam: Negative value indicates section downstream of dam; positive value indicates section upstream of dam.

Based on the entrenchment ratios presented in Table 1, the channel is entrenched to moderately entrenched at the cross-sections upstream of the Brooklyn Street Dam. The degree of entrenchment at the Brooklyn Street Dam is consistent with the urbanized nature of surrounding land uses and channelization due to the construction of stone walls, roadway embankments and other infrastructure. As we move upstream towards Habbep Dam the degree of urbanization and channelizing structures decrease and floodplain connectivity increases, as indicated by the higher entrenchment ratios ranging from 3.1 to 5.4 (Table 1). However, the majority of available floodplain is primarily on river left upstream of the Habbep Dam. The entrenchment ratios observed upstream

and downstream of Jockey Hollow indicate that that section of Stevens Branch is slightly to moderately entrenched, similar to Habbep.

Generally, floodplain connectivity is greater in the reaches upstream of each dam, and lower in the downstream reaches. The most substantial floodplain connectivity occurs in the vicinity of the Jockey Hollow Dam. Based on the results of the existing condition hydraulic modeling assessments, the river left floodplain upstream of the dam is engaged starting at the 2- to 5-year recurrence interval flood and connectivity extends for approximately 330 linear feet above Jockey Hollow Dam until the bedrock cascade, where connectivity ceases. Downstream of the dam, the river left floodplain downstream of the dam is engaged starting at the 10-year recurrence interval flood and river right floodplain at the 2- to 5- year recurrence interval flood. Moderately entrenched ratios were calculated at two of the six cross-sections measured in the vicinity of Jockey Hollow Dam.

The dominant bed material in the assessed reach of Stevens Branch was sand with some gravel. Starting at the confluence with Jail Branch and extending approximately 200 feet downstream of the confluence, the dominant bed material is gravel with some larger cobble. Exposed bedrock was observed within the main channel at the bedrock cascaded approximately 330 feet upstream of Jockey Hollow Dam, the bedrock step-pool/cascade system immediately downstream of Habbep Dam, and immediately downstream of Brooklyn Steet Dam.

1.3.2. Topographic Survey

Between October 27th – 29th 2021, Stone staff completed the topographic survey of the project area using a combination of total station and GPS data collection. A Geomax ZOOM 30 Series total station was used to set control points and collected detailed survey data of the Jockey Hollow and Brooklyn Steet dam sites. A Stonex S900 GPS base and rover system was used to collect details on the Habbep Dam, as well as longitudinal profile, cross-section, and stream geomorphic feature data from downstream of Brooklyn Street to the bedrock cascade upstream of Jockey Hollow.

Control points were established to provide horizontal and vertical control in the total station surveys. Stone established three control points at Jockey Hollow and two control points at the Brooklyn Street Dam. Locations and descriptions of control points are provided in the Control Point Tables on Sheets 3, 4, 7, and 8 of the design plans (Attachment 1). As a quality control measure, Stone regularly checked back to control points to assess equipment precision and data accuracy. Any discrepancies found to be over 0.1 feet resulted in resurveying of relevant data.

Topographic and bathymetric features were surveyed from approximately station 0+00 upstream of Jockey Hollow Dam to station 87+00 downstream of Brooklyn Street Dam (see channel stationing along the thalweg of the stream channel on Sheets 10-12, Attachment 1). These features included top of bank, bottom of bank, thalweg, floodplain features, impoundment features, the dams, and associated appurtenances (i.e., length, width, height of dam, base of dam, crest, spillways, etc.). Typical fish habitat features collected as part of the longitudinal profile included top and bottom of steps, pool head and tail crest, maximum pool depth, and riffle head and tail.

Total station and GPS rover survey data were uploaded into AutoCAD to develop the project basemap. The basemap consists of a 3-dimensional surface (i.e., triangular irregular network, or TIN) of the project site and 1-foot contours based on the TIN. The existing conditions surface for the project area was created by merging survey data with 2013-2017 contour LiDAR data downloaded from the Vermont Center for Geographic Information (VCGI) LiDAR Program. A longitudinal profile

along the thalweg of the stream channel was developed using survey data (Sheets 10-12, Attachment 1).

1.3.3. Wetland Delineation

On October 8, 2021, Dori Barton of Arrowwood Environmental delineated wetland boundaries within the proposed limits of disturbance (LOD) at each dam and within a reasonable buffer outside of each LOD. The wetland delineation was performed in accordance with the U.S. Army Corps of Engineers Wetland Delineation Manual, Technical Report Y-87-1, January 1987, Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Region (Version 2.0), January 2012, and Section 3.2 of the Vermont Wetland Rules. Wetlands were only found at the Jockey Hollow site. Wetland boundaries are shown on Sheet 3 and 4 of the design plans (Attachment 1). Additional wetland boundary investigations will be performed at the potential sediment disposal sites during the final design phase of the project.

1.3.4. Sediment Probing

1.3.4.1. Probing Methods

Sediment probing was completed in the impoundments immediately upstream of each dam to identify the historical stream bed and estimate the depth of impounded sediment. An extendible steel tile rod was pushed into the streambed by hand, then driven using a sledgehammer until refusal was met. When the steel rod was unable to be driven further into the streambed the depth to and nature of refusal (i.e., resistance, vibrations, audible cues, or no refusal) were noted.

Probing depths were compared to the bottom elevation of each dam. To do this, the water surface elevation in the impoundment behind each dam on the day of probing was used as a temporary datum. On the day probing was completed, these water surface elevations were roughly equivalent to the top of dam elevations. At each probe location, the total rod depth from the water surface to the depth of refusal (or maximum depth reached) was recorded. Probing depth elevations were estimated by subtracting total rod depths from the water surface elevations. The height above the bottom of each dam was calculated by subtracting the bottom of dam elevation (also referred to as the "datum" in Table 2) from the probing depth elevation (equal to water surface minus total rod depth).

1.3.4.2. Probing Results

Exploratory probing provided insight into the type and nature of material at depth immediately upstream of each dam. Table 2 provides a summary of probing elevations and an interpretation of material encountered at respective elevations. Dam datums, or bottom of dam elevations are provided for reference. Gravel bed refusal was met upstream of the Brooklyn Street Dam, where the impoundment generally consisted of coarse sand and gravel, and bedrock in one location. However, refusal was difficult to identify in the impoundments containing finer sediment upstream of Happeb and Jockey Hollow Dams.

Manual probing is subject to limitations that must be considered when evaluating results. These limitations include the amount of force that can be applied to the steel rod using a sledgehammer, spatial resolution of sampling locations, length of the probing rod, and difficulty progressing rod in coarser sand and gravel or dense clay layers. Due to these limitations, it is possible that the results provided in Table 2 represent an underestimate for the depth of impounded sediment behind the dams, and therefore a conservative estimate for AOP. For example, a few explorations within the

Jockey Hollow and Brooklyn Street impoundments ended with 'Refusal not hit; difficult to drive further', indicating that Stone staff were not able to continue driving the probe past a dense layer to actual refusal. These results indicate that the actual depth of refusal may be closer to the bottom of dam elevation used for the reference datum, minimizing the barrier to AOP at this location. The "Refusal not hit" results at Habbep and Jockey Hollow indicate that the historic streambed elevation is likely lower than the depths Stone staff were able to reach with the steel probing rod. Generally, these results support the idea that AOP may be restored with the removal of the dams, except for natural barriers presented by bedrock and cascade features in the channel.

Table 2: Summary of probing data near Jockey Hollow, Habbep, and Brooklyn Street Dams

Probe ID	Description[1]	Probe Depth Elevation[2] (ft)	Height Above Datum[3] (ft)
Brooklyn Street Dam (Datum[4]= 594.2', Top of Dam = 598.9')			
59	Gravel Bed Refusal	596.4	2.2
58	Refusal	594.3	0.1
57	Bedrock at Surface	598.9	4.7
60	Gravel Bed Refusal	595.4	1.2
61	Refusal	593.7	-0.5
63	Refusal not hit	591.9	-2.3
62	Refusal	593.2	-1
64	Gravel Bed Refusal	596.4	2.2
65	Refusal not hit; relic streambed near 3'?	591.4	-2.8
66	Gravel Bed Refusal	596.9	2.7
67	Refusal not hit; difficult to drive further	591.7	-2.6
68	Gravel Bed Refusal	597.4	3.2
71	Gravel Bed Refusal	596.9	2.7
Habbep Dam (Datum[4] = 640.3', Top of Dam = 649.1')			
38	Refusal	642.5	2.2
39	Refusal not hit	641.5	1.2
40	Refusal not hit	641.6	1.3
41	Refusal by historic streambed?	645.4	5.1
42	Refusal by historic streambed?	646.3	6.0
43	Refusal	642.2	1.9
44	Refusal not hit	641.4	1.1
45	Refusal not hit; transition in sediment	641.1	0.8
47	Refusal not hit	641.6	1.3
Jockey Hollow Dam (Datum[4] = 649.0', Top of Dam = 657.3')			
48	Refusal not hit	649.8	0.8
51	Refusal not hit	649.8	0.8
50	Refusal not hit; difficult to drive further	650.1	1.1
52	Refusal not hit; difficult to drive further; dense clay?	650.3	1.3
53	Refusal not hit; difficult to drive further; dense clay?	650.0	1.0
54	Refusal not hit; difficult to drive further; dense clay?	650.2	1.2
55	Refusal not hit; difficult to drive further; dense clay?	650.3	1.3
56	Upper bound of sediment wedge; refusal hit	656.3	7.3

Abbreviations: ft = feet
[1]Description of type and indications of refusal hit. Probe data ordered from downstream to upstream for each respective dam.
[2] Probe depth elevation is equal to the Top of Dam elevation minus the Total Rod Depth
[3] Height above the datum which is equal to the bottom of each dam.
[4] Datum: Equal to bottom of dam elevation on downstream side of structure, collected during structure and topographic surveys.

1.3.5. Impounded Sediment Analysis

1.3.5.1. Sediment Characterization

Stone staff recorded observations on dominate channel bed material along the longitudinal profile surveyed on October 27th – 29th 2021. The purpose of this effort was to preliminarily characterize the bed material to inform pilot channel bed design. Pebble count methods do not work well for streams or impoundments with finer material (i.e., small gravel to fine sands). Therefore, Stone performed a visual assessment of the bed material within the impounded areas of Stevens Branch. The results of this visual assessment are summarized in Table 3, and indicate the dominate bed material ranges from sand and gravel to boulders, with bedrock observed at several locations. If needed, detailed pebble counts may be conducted prior to the completion of 100% designs to provide further information on channel bed design.

Table 3: Summary of Dominate Bed Material Along Stevens Branch Thalweg

Station	Dominate Bed Material	Location Description
0+00	Boulder	Upstream of cascade
4+95	Bedrock	Cascade upstream of Jockey Hollow Dam
5+78	Sand	Jockey Hollow impoundment
9+18	Bedrock	Directly downstream of Jockey Hollow Dam
13+05	Gravel, Sand	Downstream of Jockey Hollow Dam
17+23	Sand	Torturous meander bend
31+44	Gravel, Sand	Pool tail crest
43+80	Gravel, Sand	Upstream of Habbep Dam
47+00	Bedrock	Cascade reach below Habbep Dam
52+08	Boulder	Pool tail crest – riffle head
62+97	Sand	Upstream of Jail Branch confluence
67+00	Gravel	Jail Branch confluence
80+76	Gravel	Upstream of Brooklyn Street Dam
82+35	Boulder, Cobble	Downstream of Brooklyn Street Dam

On July 28, 2022, Stone staff screened and collected bed sediment samples from each impoundment for VOCs, SVOCs, Priority Pollutant Metals, and PCBs analyses. One sediment core was collected from the impoundment upstream of each dam using a handheld SDI Vibecore Mini equipped with a 6 ft long 2-inch diameter plastic core tube. An Ion Science TIGER Model photoionization detector (PID) was used to screen samples for VOCs following Stone's SOP SEI-5.63.0. A Thermo Scientific NDT X-Ray Fluorescence (XRF) unit was used to screen samples for heavy metals.

A 30-inch core with a recovery of 10 inches was collected approximately 50 feet upstream of Jockey Hollow Dam in the pool along river right. The core was split based on sediment characteristics. The top 0-1 inches consisted of brown to dark gray silt and the bottom 2 – 10 inches consisted of medium grain sand with trace gravel at 7-9 inches. The PID screening did not indicate the presence of VOCs, so a subsample was not collected for VOC analysis. The XRF indicated that some metals

may be present at values between the unit's LOD and the Investigation and Remediation of Contaminated Properties Rule (IRule) standards for aquatic biota, so a subsample was collected for each depth for metals analysis (VTDEC, 2019). A subsample was also collected for each depth for SVOC and PCB analysis.

The same sampling and screening procedures were followed downstream and Habbep and Brooklyn Street Dams. A 51-inch core with 18 inches of recovery was collected at Habbep Dam and split into 0–1-inch section consisting of brown silt and a 1.5-18 inch section consisting of brown medium sand with trave fine gravel at 7-11 inches. The coarse sediment in the impoundment upstream of Brooklyn Street made it difficult to collect a core. An attempt was made to collect samples approximately 30 feet upstream along the dam in finer sediment along river left bank adjacent to the Trow and Holden property, but the Vibecore was only able to sample to a depth of 9 inches. A grab sample representing the finer top layer of sediment at this location was collected for additional analysis. At both Habbep and Brooklyn Street, the PID screening did not indicate the presence of VOCs, so a subsample was not collected for VOC analysis. The XRF indicated that some metals may be present at values between the unit's LOD and the IRule standards for aquatic biota, so a subsample was collected for each depth for metals analysis. A subsample was also collected for each depth for SVOC and PCB analysis.

Samples were sent overnight in coolers with ice to Pace Analytical Laboratory in East Longmeadow, MA for the analysis listed in Table 4. All SVOC and PCB results were below the method detection limits. Metals analysis results in detections above the reporting limit for arsenic (Habbep 1.5 – 18 inch depth sample only), chromium, copper, lead, mercury, and nickel. Nickel was detected at 23 mg/Kg in the Jockey Hollow 0 – 1 inch depth sample, which is above the Threshold Effects Concentration for aquatic biota in the IRule. All other detections were below the Threshold Effects Concentrations. Metals analysis results are presented in Table 5. The analytical report from Pace Analytical Laboratories is provided in Attachment 2.

Table 4. Summary of Analytical Methods

Parameter	Analytical Method
SVOCs	EPA Method 8270
Priority Pollutant Metals	EPA Method 7720/6010b
PCBs	EPA Method 8082

Table 5. Summary of Impounded Sediment Metals Analysis Results

Analyte	Jockey Hollow		Habbep		Brooklyn Street
	0–1-inch depth	2–10-inch depth	0–1-inch depth	1.5-18-inch depth	Top of sediment
Antimony	<2.1	<1.8	<1.9	<1.8	<2.6
Arsenic	<4.3	<3.5	<3.8	4.1	<5.1
Beryllium	<0.21	<0.18	<0.19	<0.18	<0.26
Cadmium	<0.43	<0.35	<0.38	<0.37	<0.51
Chromium	20	17	15	14	20
Copper	15	10	10	7.3	17
Lead	7.6	3.5	4.6	3.6	14
Mercury	<0.033	<0.027	<0.032	<0.027	<0.038

Analyte	Jockey Hollow		Habbep		Brooklyn Street
	0–1-inch depth	2–10-inch depth	0–1-inch depth	1.5-18-inch depth	Top of sediment
Nickel	23	20	19	16	21
Selenium	<4.3	<3.5	<3.8	<3.7	<5.1
Silver	<0.43	<0.35	<0.38	<0.37	<0.51
Thallium	<2.1	<1.8	<1.9	<1.8	<2.6

1.3.5.2. Estimate of Sediment Volume and Potential Mobilized Sediment

Proposed pilot channel slopes were developed using field investigation and survey data. Pilot channel slopes are consistent with adjacent reach slopes and designed to maximize AOP and restore geomorphic function following dam removal. The proposed design reach pilot channel slopes, and the estimated quantity of sediment to be removed for each dam are provided in Table 6.

Table 6: Sediment Removal Estimates

Design Reach	Slope (%)	Estimated Sediment Removal (CY)
Jockey Hollow Dam	1.6	1,618
Habbep Dam	1.4	2,942
Brooklyn Street Dam	1.9	810

To preliminarily assess the potential for mobilized sediment post dam removal, Stone reviewed stream slopes in adjacent reaches. Typically, if a proposed design slope is within +/- 25% of adjacent reach slopes and the material is in the range of coarse sand to cobble, we wouldn't anticipate a headcut or aggressive channel adjustment over the long term. For Jockey Hollow, the existing channel slope upstream and downstream of the dam ranges from 1.1% to 8.3%, with the steepest slopes observed at the bedrock cascade upstream of the dam. We do not anticipate a headcut upstream of Jockey Hollow due to the bedrock grade control at that cascade. The existing stream channel slopes adjacent to Habbep Dam range from 0.3% upstream of the dam to 6.7% in the steep cascade below the dam. The proposed channel slope is steeper than the relatively flat existing channel slope upstream of the dam, presenting minor headcut potential. Stream slopes adjacent to the Brooklyn Street Dam range from 0.8 to 4%. Again, there is some minor headcut potential upstream of the dam which could result in some mobilized sediment. It is anticipated that sediment transport from upstream will settle in the pilot channel and the design grade accounts for this flux, allowing the channel to transition into a more stable form. Additional sediment transport modeling may be necessary in the final design stages to fully understand the potential for headcuts and sediment mobilization at the Habbep and Brooklyn Street sites.

1.3.6. Infrastructure Analysis

For this 30% design, Stone conducted a preliminary infrastructure inventory and analysis using knowledge of the project site and publicly available aerial photography. A summary of this infrastructure is provided in Table 7 below. Most bridge dimension data provided in the table was obtained from state inventories.

Table 7: Summary of Infrastructure Along Stevens Branch

Item	Location Relative to Dam	Location	Ownership	Notes	Vulnerability
Remnant pipes- Jockey Hollow	Downstream	River left bank	Barre City	Remnant pipes from water distribution system to be removed.	Low
Sewer line- Habbep	Upstream	River left floodplain	City*	To be addressed during final design. As-builts to be obtained from the City.	Moderate
Steep embankment - Habbep	Upstream	River right	Krishna LLC DBA Quality Inn	Steep embankment armored with riprap. Toe of slope vulnerable to destabilization post dam removal. Proposed design includes leaving a portion of the dam in place to minimize vulnerability.	Moderate
Sewer line- Brooklyn Street	Upstream	In stream	City	Sewer or water line that will be exposed with the removal of impounded sediment. To be addressed during final design.	Moderate
Steep bank- Brooklyn Street	Downstream	River left	Francine R Giroux	Will need to be stabilized and addressed in final design	Moderate
Meander- Brooklyn Street	Downstream	River right	Trow and Holden Co.	Exaggerated meander that sends flows under Trow and Holden Co. building, proposed design includes elimination of this meander bend.	Low

The infrastructure identified in Table 7 and associated vulnerability should be considered and refined as needed during the 100% design phase. Existing infrastructure is identified on the 30% design plans. Sewer lines are located upstream of Habbep Dam and Brooklyn Street Dam. The exact location of the sewer lines upstream of Habbep Dam will be obtained during the final design phase. The sewer line upstream of Brooklyn Street Dam is of concern because it is currently partially exposed and crosses the stream perpendicular to flow. It is anticipated that the sewer line will become further exposed after dam removal and will require additional stabilization or modification to be determined during final design. Care should be taken to ensure that the steep embankment along river right upstream of Habbep Dam remains stable during and after dam removal, this may include more detailed analysis, modeling, or monitoring in the final design phase.

1.3.7. Preliminary Aquatic Organism Passage (AOP) Feasibility Assessment

The Brooklyn Street Dam is the most downstream dam, and therefore is currently the limiting factor for AOP up Stevens Branch. The Brooklyn Street Dam is built on top of bedrock that will likely become exposed after dam removal. This bedrock outcropping could become a natural barrier to AOP. However, AOP is likely during higher flows when water level rises above the bedrock. This conclusion is supported by probing results above the Brooklyn Street Dam which show a few refusals due to potentially stable obstructions, however most of the probing samples were gravel bed refusal which is likely not a stable barrier to AOP. Additionally, removal of the dam will reconnect approximately 4.1 miles of stream along Jail Branch and 1,850 linear feet along Stevens Branch.

The steep bedrock cascades below Habbep Dam could present a challenge for AOP. However, VTF&W staff have suggested that the cascade channels are passable. Additionally, Trout Unlimited

(TU) has suggested the reach between the Jockey Hollow and Habbep Dams is a very popular fishing area for wild trout populations. Probing results where refusal was hit indicate a historic stream bed may be located 1.1 to 2.2 feet above the current dam bottom; however, potential refusal was hit at only 2 of the 9 probing locations and these measurements represent a conservative estimate for the impounded sediment depth. Therefore, provided the species can migrate up the channel cascades, AOP should be restored at this location with the removal of Habbep Dam.

The removal of Jockey Hollow Dam will result in 285 liner feet of reconnection for AOP. The natural bedrock barrier approximately 300 linear feet upstream of the dam will limit AOP in this reach. Refusal was not hit at any of the probing locations in the impoundment upstream of Jockey Hollow Dam.

1.4. Alternatives Considered

The following summarizes the feasibility and alternatives analysis components for each dam, including design alternatives considered, list of permitting needs, water draw down considerations, site constraints, and mitigation of natural resource impacts.

A project locator map is included as Attachment 3, a map generated from the VT ANR Natural Resources Atlas showing the occurrence of a rare, threatened, or endangered species present near the Habbep Dam is provided as Attachment 4, and the current design plans are included as Attachment 1.

1.4.1. Jockey Hollow Dam Alternatives

The Jockey Hollow Dam is the most upstream of the three dams. A total of four alternatives were evaluated and are summarized below, including descriptions of positive and negative aspects applicable to each alternative.

- **Alternative 1** – The "No Action" alternative in which the dam remains in place.
    - Positives – No removal costs or permitting; no land disturbance.
    - Negatives – Fish passage and sediment transport would not be restored; any flooding in the area would continue; migration of exaggerated meander bend could continue; no potential for wetland or habitat enhancement; impounded sediment would remain in place; potential for dam to degrade over time and potential for dam failure.

- **Alternative 2** – The primary purpose of this alternative was to enhance wetland functions, with an additional benefit of eliminating an exaggerated meander bend. Work would include dam removal, limited sediment removal upstream of the dam (~1,200 CY), modifications to the primary channel to eliminate an exaggerated meander bend and the creation of a flood channel along river left.
    - Positives – Elimination of exaggerated meander bend (at station 17+00 on Malone property); additional channel length and potential for energy dissipation; creates/enhances floodplain connectivity and wetlands.

- Negatives – Potential for significant disturbance; likely higher construction costs; may pose permitting challenges.

- **Alternative 3** – This alternative offered an option with much less disturbance than Alternative 2 at a lower anticipated cost. Work would include dam removal, limited sediment removal upstream of the dam (~1,618CY), no work downstream.
  - Positives – Smallest amount of disturbance; likely lowest construction cost; fewer anticipated permitting challenges.
  - Negatives – Exaggerated meander bend would remain; design wouldn't result in increased floodplain connectivity or wetland enhancement.

- **Alternative 4** – This alternative offered an option in between Alternatives 2 and 3. Work would include dam removal, limited sediment removal upstream of the dam (~1,618CY), and modifications to the primary channel to eliminate an exaggerated meander bend. Modifications would consist of rerouting approximately 400-500 linear feet of channel while maintaining the confluence with the tributary located along the river between the dam and the exaggerated meander bend.
  - Positives – Elimination of meander bend; likely moderate construction cost.
  - Negatives – Still requires a significant amount of disturbance; design wouldn't result in any increase in floodplain connectivity or wetland enhancement.

During discussions with stakeholders during a May 26, 2022, site visit, Alternative 2 was removed from consideration in favor of Alternative 3 or 4. The existing and proposed conditions hydraulic model results were compared to determine if removal of the Jockey Hollow Dam will result in increased shear forces at the exaggerated meander bend. Model results indicated that the simulated main channel shear stress and velocity results are comparable between the existing and proposed conditions, with slight decreases in the simulated water surface elevation at the meander bend (Table 1Table 8). In both the existing and proposed conditions, while higher shear stress and velocity values are seen in the cross-sections at the upstream and downstream extent of the bend the values were comparable in magnitude between the existing and proposed conditions. Additionally modeling or exploration of options for mitigating potential impacts to the meander bend may be explored during the final design phase.

Table 8. Summary of hydraulic modeling results at the meander bend downstream of Jockey Hollow

	Shear Stress (lb./ sq ft)		Velocity (ft/s)		WSE (ft)	
Scenario	Existing	Proposed	Existing	Proposed	Existing	Proposed
2-yr	0.06	0.06	2.0	2.0	654.8	654.6
5-yr	0.08	0.08	2.4	2.4	656.3	656.2
10-yr	0.08	0.08	2.4	2.4	657.3	657.2
25-yr	0.08	0.09	2.5	2.6	658.3	658.2

50-yr	0.09	0.09	2.6	2.6	659.1	659.0
100-yr	0.09	0.09	2.7	2.7	660.00	659.9

1.4.1.1. Permitting Considerations

No permits will be necessary for the "No Action" alternative. The following list summarizes potential permitting needs for Alternatives 2 through 3.

- US Army Corps of Engineers Vermont General Permit, Category 2 – Required since work will take place in wetlands.
- VTDEC Dam Order Permit – Not required, based on communications with the VT Dam Safety Program. However, additional calculations may be performed during the final design phase to confirm.
- VTDEC Stream Alteration – Required, since greater than 10 cubic yards of sediment will likely be moved, excavated, or fill.
- VTDEC Wetlands Permit – Based on recent site meeting with the DEC Wetlands Program, the wetland delineated along the river right floodplain, just downstream of the dam will be classified as a Class 2 wetland and DEC staff have stated that a wetland permit will be required. It is possible that this wetland may have to be re-delineated based on input from DEC staff during the meeting, as they identified 2-3 flow discharges from this wetland. Final design plans will include these flow discharges and may also include opportunistic restoration elements suggested by DEC, including removal of invasive species, restoration via plantings, a better-defined pedestrian access way and a demarcation of a snow disposal area, to reduce the potential for snow disposal directly into the stream.
- VTDEC Construction General Permit (Stormwater) – Likely required, the area of land disturbance for this project will most likely be greater than 1 acre.
- VT AOT State Highway Access and Work Permit (Section 1111 Permit) – Likely required since access to the site will be from the Town maintenance lot along Vermont Route 14.
- Municipal Flood Hazard Area Development Permit – Required, while the City owns the dam and the parking lot where access and staging are proposed, both are in the Town. Therefore, this permit application would be submitted to the Town, who is a member of the National Flood Insurance Program and regulates activities in the Flood Hazard Area via their Flood Hazard Bylaw, which is part of their zoning regulations.

1.4.1.2. Water Drawdown Needs and Methods

A steep (20%) cobble/boulder cascade underlain by bedrock exists approximately 330 feet upstream of the dam. Impounded sediment that begins at the base of this cascade downstream to the dam is proposed to be removed under Alternatives 2 through 4. Preliminary designs will most likely include the construction of a cofferdam at the base of this cascade just upstream of the limits of sediment removal, consisting of large sandbags (i.e., bulk bags) wrapped in plastic poly. Water collected behind the cofferdam can be directed through the river left floodplain either by pump or gravity and flexible hose. Alternatively, a cofferdam could be constructed at the top of the cascade to ensure the ability to convey bypass flows via gravity through the woods and then through the same river left floodplain.

1.4.1.3. Site Constraints

Site access will be along river right from the City maintenance parking lot, located along South Barre Road (Vermont Route 14) as shown on Sheet 4 of the plans (Attachment 1). Access from this

parcel to the work area will include clearing of brush and trees, and the creation of a ramp down a steep slope. An access road through the work area will consist of timber mats or geotextile and stone material. The road will avoid the delineated wetland. If work is to be performed at the meander bend, an access easement would be required from Malone Properties, LLC. Otherwise, all other work is to be performed on City-owned land.

1.4.1.4. Natural Resources

As discussed in Section 1.4.1.1, there is a Class 2 wetland downstream of Jockey Hollow Dam along river right. All proposed work and access routes will be designed to not impact the wetland or wetland buffer. Invasive species were identified by DEC staff during a site meeting and final design plans will include details for their removal.

A review of the VT ANR Natural Resources Atlas indicated the occurrence of a rare, threatened, or endangered species that includes the project extents at the Habbep Dam. This occurrence is also within 1 mile of the Jockey Hollow Dam. Further investigations or surveys of rare, threatened, and endangered species populations may be required prior to dam removal and as part of 100% design.

1.4.2. Habbep Dam Alternatives

The Habbep Dam is located approximately 3,550 feet downstream of the Jockey Hollow Dam. Three alternatives for removal were evaluated and are summarized below.

- Alternative 1 – The "No Action" alternative in which the dam remains in place.
    - Positives – No removal costs or permitting issues; no land disturbance, including no impacts to the river right bank.
    - Negatives – Fish passage and sediment transport would not be restored; any flooding in the area would continue; no potential for floodplain reconnection or habitat enhancement; impounded sediment would remain in place; potential for dam to degrade over time and potential for dam failure.
- Alternative 2 – The purpose of this alternative was to evaluate feasibility of full dam removal, including portions of the dam that run into the river right bank toe of slope. The river right bank is heavily armored with angular stone and approximately 25 feet high, with industrial land uses at the top of bank. Work would include removal of the entire dam, moderate sediment removal upstream of the dam, creation of a floodplain bench on river left (total removal of ~2,942 CY of soil), and construction of access (see Section 1.4.2.3 Site Constraints). The bench would be required to maintain floodplain connectivity since this portion of Stevens Branch is incised.
    - Positives – Full dam removal with no portions of the dam to remain; connection to floodplains; restoration of AOP through the side channel along river right downstream of the dam.
    - Negatives – Potential destabilization of the river right slope and the potential for encountering contaminated soils (review of historical land use data indicated a substation/capacitor station existed at top of bank in the 1970s; Stone collected

sediment behind the dam for chemical analysis, results are provided in Section 1.3.5 of this report); likely higher construction costs; leaving behind a significant amount of impounded sediment – preliminary estimates include a total of 28,000 CY of sediment between Habbep and Jockey Hollow Dams.

- Alternative 3 – This alternative is similar to Alternative 2, however approximately 5 feet of the dam along river right will be left in place to mitigate destabilization of the toe of slope. Work would include removal of approximately 95 linear feet of dam, moderate sediment removal upstream of the dam, creation of a floodplain bench on river left (total removal of ~2,942 CY of soil), and construction of access (see Section 1.4.2.3 Site Constraints). The bench would serve the same purpose as the bench in Alternative 2.
    - Positives – Reduced risk of slope destabilization via partial removal; connection to floodplains; lower construction costs; potential for restoration of AOP through the side channel along river right downstream of the dam.
    - Negatives – Some portion of the dam will remain; leaving behind a significant amount of impounded sediment – preliminary estimates include a total of 28,000 CY of sediment between Habbep and Jockey Hollow Dams.

During discussions with stakeholders during a May 26, 2022, site visit, Alternative 3 was selected as the alternative to develop to 30% designs. Both Alternatives 2 and 3 include leaving behind a significant amount of impounded sediment. The City has expressed concerns regarding the release of sediment downstream post-dam removal and the potential for increases in bed elevations and flood stages in lower parts of the City. Stone and FWR have discussed the need for an evaluation of sediment transported downstream through a coupled H&H/sediment transport model to be completed during the final design phase. This effort will further inform the feasibility of limited sediment removal versus the need for additional sediment removal. If required, sediment removal volumes for Alternative 3 will be modified accordingly following the completion of the sediment transport modeling effort.

1.4.2.1. Permitting Considerations

No permits will be necessary for the "No Action" alternative. The following list summarizes potential permitting needs for Alternative 3.

- US Army Corps of Engineers Vermont General Permit – This permit will likely be required.
- VTDEC Dam Order Permit – Required, based on communications with the VT Dam Safety Program, removal of the Habbep Dam will require a Dam Order Permit since it impounds more than 500,000 cubic feet of water and sediment.
- VTDEC Stream Alteration – Required, since greater than 10 cubic yards of sediment will likely be moved, excavated, or fill.
- VTDEC Wetlands Permit – At this time, we anticipate that the work will be authorized by the Wetlands Program under an allowed use since it is considered a restoration project.
- VTDEC Construction General Permit (Stormwater) – Likely required, the area of land disturbance for this project will most likely be greater than 1 acre.

- VT AOT State Highway Access and Work Permit (Section 1111 Permit) – This permit will most likely not be required.
- Municipal Flood Hazard Area Development Permit – The City is a member of the National Flood Insurance Program and regulates activities in the Flood Hazard Area via their Flood Hazard Area Regulations (https://www.barrecity.org/client_media/files/PPA/flood%20regulations.pdf). A municipal zoning permit will be required.

1.4.2.2. Water Drawdown Needs and Methods

The Stevens Branch upstream of the Habbep Dam has a relatively mild slope and is moderately incised. The potential for bypass flows via gravity conveyance is low. The most effective bypass plan would most likely include construction of a cofferdam upstream of the work and pumping water up and out of the channel via flexible pipe, through the river left floodplain. Water would be discharged downstream of the dam at the waterfalls and/or cascade sections of the stream. In-channel bypass flows via pump and piping could be feasible but may conflict with sediment and dam removal.

1.4.2.3. Site Constraints

There are two site access options available. The first option is to access the site from the condominium parking lot located along river left of the site off Mill Street. Further coordination with the City is required regarding their right-of-way before a final access route is selected. Additionally, upon review of the parcel lines in the design plans, construction easements with other landowners may be required for removal of the dam (Krishna, LLC and Metro Development, LLC). The second is via a potential City right-of-way along river left of the dam and channel. A right of way was identified along Mill Street during the preliminary design phase, but records have not been procured of a right of way closer to the main channel. If this access option is pursued those records will need to be obtained. Additionally, a significant number of trees may need to be cleared to provide proper access and staging area. However, some of these trees may also need to be cleared for construction of the floodplain bench, reducing the number of trees removed solely for site access.

The City owns a large parcel to the southwest of the dam (at the Barre Municipal Swimming Pool/Rotary Park) and a large parcel to the northeast of the dam, approximately 450 LF downstream along the right bank. It is anticipated that an agreement will be needed with Krishna LLC / DBA Quality Inn, located at 173 S Main Street, Barre VT, since they own the riverbanks on both sides of the dam structure. Ms. Garland attended an FWR site visit and appeared amenable to the project.

1.4.2.4. Natural Resources

A review of the VT ANR Natural Resources Atlas indicated the occurrence of a rare, threatened, or endangered species that includes the project extents at the Habbep Dam. This occurrence is mapped in Attachment 4 and details for avoiding impacts to the sensitive species have been included in the preliminary designs provided in Attachment 1. Further investigations or surveys of rare, threatened, and endangered species populations may be required prior to dam removal and as part of 100% design.

1.4.3. Brooklyn Street Dam Alternatives

The Brooklyn Street Dam is the most downstream of the three dams. Three alternatives were evaluated and are summarized below.

- Alternative 1 – The "No Action" alternative in which the dam remains in place.
  - Positives – No removal costs or permitting issues; no land disturbance.
  - Negatives – Fish passage and sediment transport would not be restored; any flooding in the area would continue; no potential for floodplain reconnection or habitat enhancement; impounded sediment would remain in place; potential for dam to degrade over time and potential for dam failure; no proposed protection of Trow & Holden building.

- Alternative 2 – The primary goal of this alternative was to ensure fish passage via a passage channel constructed along river right of the dam. The lower part of this channel would follow an existing side channel that has formed due to flow conveyance around a partial breach in the existing dam. The passage channel would avoid a potential bedrock barrier along the center of the channel that was identified during surveys. Work would include full dam removal, installation of the passage channel, bank stabilization along river left and limited sediment removal upstream of the dam (~810 CY).
  - Positives – Design focused on ensuring fish passage.
  - Negatives – Likely higher construction costs; construction of bed features that may be prone to failure during high flows; directs more flow closer to Trow & Holden building; may pose permitting challenges.

- Alternative 3 – This alternative does not include the passage channel and eliminates the existing side channel by establishing longitudinal connectivity between the sections of the river right bank upstream and downstream of the project. Work would include full dam removal, elimination of the existing side channel by reconnecting the river right bank, bank stabilization along river left and limited sediment removal upstream of the dam (~810 CY). See Figure 2.
  - Positives – Simpler design with likely lower construction cost; restoration of right bank and material placed may provide more protection of Trow & Holden building; easier to permit.
  - Negatives – Potential for reduced aquatic organism passage during some flows due to changes in bedrock elevations, however restored sediment transport may fill in bedrock depressions and mitigate passage issues.

During discussions with stakeholders during a May 26, 2022, site visit, Alternative 2 was removed from consideration in favor of Alternative 3. Alternative 3 leaves behind a significant amount of impounded sediment (an additional 7,000 CY). Currently, the project team has decided to plan for

limited sediment removal pending further evaluation in the final design phase. There were additional discussions regarding fill to be placed along the right bank and plantings along the restored floodplain that warrant further discussion, however, those details will be incorporated during the final design phase final design.

An exposed sewer line crosses the Stevens Branch approximately 1,000 linear feet upstream of the Brooklyn Street Dam. In an ideal scenario, the city prefers that this pipe be buried 2 feet below grade and armored/encased for added protection after dam removal and channel restoration. However, the pipe is currently exposed and will likely remain exposed at its current elevation following removal of impounded sediment. Discussions are ongoing as to whether this pipe is still in use and if so, whether it would be possible to reroute or remove. The approach to this pipe will be further evaluated during the final design phase. There is a City sewer pipe upstream of the dam that requires further evaluation and mitigation design with respect to vertical channel adjustment and exposure of the pipe (the top of pipe in the channel was visible during surveys). Discussions have included encasement of the pipe in concrete. This will also be further evaluated during the final design phase.

Site access will likely be arranged through an agreement Francine R, Giroux, the owner of a vacant land parcel adjacent to 33 Brooklyn Street, Barre, VT at SPAN 036-011-11344, Map ID 0245-VL00-0012. This would open additional access on river left, upstream of the existing dam. The retaining walls downstream of the dam structure limit access at that point.

1.4.3.1. Permitting Considerations

No permits will be necessary for the "No Action" alternative. The following list summarizes potential permitting needs for Alternative 3.

- US Army Corps of Engineers Vermont General Permit, Category 2 – This permit will be required since work will take place in wetlands.
- VTDEC Dam Order Permit – Based on communications with the VT Dam Safety Program, removal of the Brooklyn Street Dam will not require a Dam Order Permit. However, we suggest that additional calculations be performed during the final design phase to confirm it will not be required.
- VTDEC Stream Alteration – Required, since greater than 10 cubic yards of sediment will likely be moved, excavated, or fill.
- VTDEC Wetlands Permit – At this time, we anticipate that the work will be authorized by the Wetlands Program under an allowed use since it is considered a restoration project.
- VTDEC Construction General Permit (Stormwater) – The area of land disturbance for this project will most likely be less than 1 acre, and therefore this permit will not be required.
- VT AOT State Highway Access and Work Permit (Section 1111 Permit) – This permit will most likely be required since access to the site will be from Vermont Route 14.
- Municipal Flood Hazard Area Development Permit – The City is a member of the National Flood Insurance Program and regulates activities in the Flood Hazard Area via their Flood Hazard Area Regulations

(https://www.barrecity.org/client_media/files/PPA/flood%20regulations.pdf). A municipal zoning permit will be required.

1.4.3.2. Water Drawdown Needs and Methods

The Stevens Branch upstream of the Brooklyn Street Dam has a relatively mild slope and is mildly incised. The potential for bypass flows via gravity conveyance is low. However, the width of the channel, along with the existing side channel and configuration of the existing dam on river right may serve as a means for diverting flow to river right while dam removal, bank stabilization work and sediment removal is completed along the center of channel and river left. This would require a cofferdam constructed upstream of the dam in a configuration to direct flow to the right. Once work is done on the left side of the channel, the cofferdam can be reconfigured to direct flow to the river left side and work can be completed on the right side. An additional measure could include a gravel berm placed downstream of the dam to a height above dry weather flow, to serve as a filter for any sediment releases downstream. Pumping flow is also possible, however at this point in the stream flows may be high enough that pumping may be infeasible. Summer low flows at the site should be further evaluated with respect to pumping capacity during the final design phase.

1.4.3.3. Site Constraints

Access to the site is possible off Brooklyn Street as shown in Figure 2 (see thick, black dashed line), however the access way and staging area (cross hatch in Figure 2) will most likely be switched to accommodate better contours and slopes for the access route. Access agreements with landowners will be required.

1.4.3.4. Natural Resources

A review of the VT ANR Natural Resources Atlas indicated the occurrence of a rare, threatened, or endangered species that includes the project extents at the Habbep Dam. This occurrence is also within 1 mile of the Brooklyn Street Dam. FWR contacted the VTF&W Department for more information and is awaiting a response. Further investigations or surveys of rare, threatened, and endangered species populations may be required prior to dam removal and as part of 100% design.

1.5. Selected Alternatives

The Alternative 3 was selected for each of the three dams, and the final 30% designs provided in Attachment 1 show these selected alternatives. The selected alternative (Alternative 3) for Jockey Hollow Dam includes dam removal, limited sediment removal upstream of the dam (~1,618CY), and no work downstream. The selected design for the Habbep Dam (Alternative 3) includes removal of approximately 95 linear feet of dam, moderate sediment removal upstream of the dam, creation of a floodplain bench on river left (total removal of ~2,942 CY of soil), and construction of access. Five feet of the dam structure in river right will be left in place. For the Brooklyn Street Dam, the selected design (Alternative 3) includes full dam removal, elimination of the existing side channel by reconnecting the river right bank, bank stabilization along river left and limited sediment removal upstream of the dam (~810 CY).

1.6. Hydrologic Analysis

Peak Flow Analysis

Stone staff delineated the geographical region contributing flow to each of the dam sites and determined the respective watershed sizes. The watershed sizes of the Jockey Hollow, Habbep, and Brooklyn Street Dam sites are 34.1, 34.8, and 83.7 square miles, respectively. Peak flows for the 2-, 5-, 10-, 25-, 50- , and 100-year recurrence interval events were obtained for each dam watershed using the USGS StreamStats Application (https://www.usgs.gov/mission-areas/water-resources/science/streamstats-streamflow-statistics-and-spatial-analysis-tools). The resulting peak storm flows for Stevens Branch are provided in Table 9.

Table 9: Summary of Peak Flows at Stevens Branch

Recurrence Interval (years)	Jockey Hollow Dam	Habbep Dam	Brooklyn Street Dam
	Flow (ft^3/s)		
2	954	968	2120
5	1460	1480	3200
10	1840	1860	4010
25	2390	2420	5180
50	2860	2900	6160
100	3360	3410	7210

Abbreviations: ft = feet; s = second

Fish Passage Flows Analysis

High and low fish passage flows were estimated to assess potential fish passage conditions at the sites following dam removal. Daily streamflow data was downloaded from the Dog River at Northfield (USGS 04287000) and Mad River near Moretown (USGS 04288000) gages and used to calculate the 5% and 95% exceedance flows (seasonal high and low flow) during April to November. The fish passage flows calculated for downstream and upstream of the confluence with Jail Branch are provided in Table 10. The design flow and fish passage flow scenarios above were simulated using a one-dimensional hydraulic model described below.

Table 10: Fish Passage Flows at Stevens Branch

Fish Passage Flow	Flow Upstream of Jail Branch (ft^3/s)	Flow Downstream of Jail Branch (ft^3/s)
High	215	574
Low	5.78	15.4

Abbreviations: ft = feet; s = second

1.7. Hydraulic Modeling

Model Development

The US Army Corps of Engineers (USACE) Hydrologic Engineering Center's River Analysis System model (HEC-RAS; http://www.hec.usace.army.mil/software/hec-ras/) was used to develop a one-dimensional, steady flow hydraulic model of Stevens Branch. The model spanned all three dams and adjacent floodplains. Peak flows and fish passage flows for existing and proposed conditions were simulated.

The existing conditions basemap developed in AutoCAD was imported into HEC-RASMapper to create a terrain model. This terrain model was used to develop the hydraulic model geometry, including topography and bathymetry at selected cross-sections. The dam structures, natural levees, ineffective flow areas, stream bank stations, distances between cross-sections along river left and right, and Manning's roughness coefficient (Manning's n) were defined at each cross-section in the model geometry file, as appropriate. Total station survey data were used to specify each dam's location and dimensions. Manning's n values were selected based on observed channel surface roughness, vegetation, and channel features. In the proposed conditions hydraulic model, the existing conditions terrain model and geometry files were edited to match the proposed conditions in the 30% design plans. All cross-section data outside of the limit of disturbance was left unchanged.

Boundary conditions and the desired flow regime were specified in the one-dimensional model. For this 30% design, each steady flow analysis was completed using a mixed flow regime, which is well suited for preliminary dam removal evaluations. Mixed flow regimes in HEC-RAS require both a downstream and upstream boundary condition to be specified. The downstream boundary condition was set to normal depth with an energy slope of 0.003, for all flow profiles. The upstream boundary condition was set to normal depth with an energy slope of 0.011. The energy slope was estimated based on the channel slope in the vicinity of the downstream and upstream cross sections. The boundary condition was set at cross-sections sufficiently far away from the area of interest to minimize errors due to estimating the starting water surface elevation (WSE).

The peak flow and fish passage flow values calculated using gage transfer and statistical techniques were entered into the HEC-RAS flow file that was used for both the existing conditions and the proposed conditions model of the selected alternatives.

Existing and Proposed Conditions Hydraulic Analysis Results

The hydraulic analysis completed for the existing conditions provides insight into the expected WSEs, water velocities, flood inundation limits, and barriers to fish passage for the simulated flow scenarios. A longitudinal profile and water surface elevation results for selected cross sections under existing conditions are provided in Attachment 5.

The proposed alternative lowers the modeled 100-year WSE in the vicinity of the Jockey Hollow, Habbep, and Brooklyn Street Dams for the modeled recurrence interval floods. Similar reductions apply for other significant recurrence intervals (i.e., 10-, 25- and 50-year intervals). The least significant changes were seen at the Brooklyn Street Dam, with decreases of less than 0.5 ft for the

2- through 10-yr design flow and increases of less than 0.5 ft for the 25- through 100-yr design flow. Table 11 provides a comparison of the 100-year WSEs for at each dam location. Model estimated WSEs for additional peak flows and at locations downstream and upstream of each dam location are provided in Attachment 5. Overall, the dam removals appear to decrease or minimally impact water surface elevations where changes from existing conditions are identified. Model results for the regraded portion of the reach immediately upstream of the current Habbep dam location indicate that the proposed conceptual design increases the Froude number and reduces flow area compared to existing conditions. Additional floodplain width may be incorporated into the designs during the 100% design phase to bring proposed conditions more in line with existing flow, or under supercritical flow.

Table 11: Water Surface Elevation Comparison at Dam for the 100-Year Recurrence Interval Flow

Dam	Scenario	2-yr WSE[1] (ft)	5-yr WSE (ft)	10-yr WSE (ft)	25-yr WSE[1] (ft)	50-yr WSE (ft)	100-yr WSE[1] (ft)
Jockey Hollow	Existing	658.4	659.4	660.0	660.4	661.3	661.9
	Alt 3	655.2	656.8	657.6	658.5	659.2	660.5
	Difference	-3.2	-2.5	-2.4	-1.9	-2.1	-1.8
Habbep	Existing	650.8	651.2	651.5	651.9	652.2	652.5
	Alt 3	643.7	644.5	644.9	645.5	645.9	646.4
	Difference	-7.1	-6.8	-6.6	-6.4	-6.2	-6.1
Brooklyn Street	Existing	603.2	604.2	604.7	605.7	607.0	608.2
	Alt 3	601.2	603.0	604.2	605.8	607.1	608.3
	Difference	-2.0	-1.2	-0.5	0.1	0.1	0.2

Abbreviations: ft = feet; WSE = water surface elevation

[1]WSE presented references a relative datum and will be tied to NAVD88 during 100% design development.

Fish passage modeling results indicate that the channel velocities and main channel water depth support adult brook trout passage and generally support juvenile brook trout passage under low and high fish passage flows in the vicinity of Jockey Hollow, Habbep, and Brooklyn Street Dams. With the highest velocities observed at Brooklyn Street dam under high fish passage flow scenario. While stream velocities exceed the maximum velocity for brook trout passage at some cross sections during peak flows, it is anticipated that brook trout will find refuge in slowly moving pools and eddies during these conditions.

Table 12: Channel Velocity Model Results for Fish Passage Flows (Proposed Conditions)

Flow	Max Main Channel Water Depth (ft)			Main Channel Velocity (ft/s)		
	Jockey Hollow	Habbep	Brooklyn Street	Jockey Hollow	Habbep	Brooklyn Street
High	2.43	1.73	2.53	1.81	1.78	3.73
Low	0.37	0.11	0.55	0.34	0.84	0.57

1.8. Conceptual Design and Costs

The 30% conceptual design plans consist of a cover sheet, general notes sheet, existing conditions plan for each dam, proposed conditions plan for each dam, a detail sheet for the Brooklyn Street Dam, and a long profile plan for the stream reaches around each of the three dams. The following provides a summary of information provided on each sheet:

- Existing Conditions Plans – The existing conditions plan for each of the three dams show 1-foot contours derived from the site basemap, limits of the dams, locations and dimensions of existing infrastructure, and approximate locations of property lines.
- Proposed Conditions Plans – The proposed conditions plan for each of the three dams is intended to provide details on the proposed dam removal design including proposed 1-foot contours, a suggested route for site access and for haul out of dam demolition material and sediment material, potential areas for material and equipment staging and storing, extents of suggested dam removal, and the location of channel restoration features such as constructed floodplain benches and bank stabilization techniques.
- Brooklyn Street Dam Detail – Due to the complexity of the Brooklyn Street Dam and its removal, a detail sheet showing dam profile, plan, and section views with removal details and notes is provided.
- Stream Long Profile Plans – The long profile plan for each of the three dams presents the longitudinal profile of the reaches of Stevens Branch adjacent to each of the dams. The long profiles include the longitudinal station location and elevation of each of the dam features, the limits of impounded sediment behind each dam, and other important streambed features within the reach, such as bedrock cascades. These plans are helpful in determining the location of longitudinal stations referenced throughout this report.

Stone has developed an Opinion of Probable Construction Cost (OPC) for each of the proposed dam removal projects to the 30% design level (Attachment 6). The OPC includes volumes for concrete and sediment removal, and other quantities estimated from the drawings and knowledge of each of the sites. Unit costs were based on 2-year average unit cost data maintained by VTrans (http://vtrans.vermont.gov/cost-estimating), and unit costs from recent construction projects for similar bid items. Per standard cost estimating methodologies developed by the US Army Corps of Engineers, the OPC includes a 20% contingency to account for unforeseen construction costs related to site conditions, variability in pricing, etc. Also, per Corps standards, as the project advances through subsequent design refinements and estimates of costs become more certain, the contingency will be reduced to 10% for the 100% design submittal.

1.8.1. Ecosystem Benefits

Removal of the Jockey Hollow, Habbep, and Brooklyn Street Dams will result in possible positive ecosystem benefits including improved water quality, connection of native Eastern Brook Trout to high-quality refuge habitat and increased riparian corridor integrity.

Conservative estimates of water quality benefits, in terms of removal of total phosphorus, indicate that removal of Jockey Hollow, Habbep, and Brooklyn Street Dams will have a positive water quality impact. The total amount of phosphorus removed can be roughly estimated using the Vermont Functioning Floodplains Initiative Phosphorus Allocation and Project Crediting Spreadsheet model. Using this method, the total phosphorus to be removed associated with the proposed removal of the Jockey Hollow, Habbep, and Brooklyn Steet Dams is 43.5, 3.6, and 1.8 lb./yr, respectively.

Dam removal will also reduce the existing risk of flooding, a risk which only increases as climate change brings more frequent and intense storm systems to New England. Hydraulic modeling completed as part of 30% design development indicates that dam removal provides reduction in water surface elevations upstream of the dams, compared to those of the existing conditions.

1.9. Conclusions

The alternatives analyzed for this project varied in scope from no action to full dam removal, with varying extents of channel modification for the Jockey Hollow, Habbep, and Brooklyn Steet Dams located on Stevens Branch in Barre, VT. The proposed alternatives taken through the 30% preliminary design phase provide a balance between complete dam removal for channel restoration and further channel modification for improving instream habitat. Given the existing conditions of each of the dams, and the opportunity to increase connectivity for brook trout habitat and floodplain restoration, dam removal is recommended at all three sites. Initial sediment quality analysis indicates that there are minimal concerns about contamination from heavy metals VOCs, SVOCs, and PCBs in the impounded sediments behind each dam. Hydraulic modeling indicates that overall water surface elevations will be lowered through the reach with the removal of the three dams. Changes in water surface elevation can be seen upstream of the limits of disturbance at both Brooklyn Street and Habbep Dams, likely due to the prolonged impact these impoundments have had on channel development. The upstream extend of changes in water surface elevations is less prevalent at Jockey Hollow, where a large natural cascade is located upstream of the dam. Further details regarding design components will be determined during the development of 100% designs for the project. It is recommended that additional field investigations, hydraulic and sediment transport modeling, and analysis will be completed as needed to develop the 100% designs for all three dam removals.

Attachment 1: Final 30% Designs

Attachment 2: Analytical Report

Attachment 3: Project Locator Map

Attachment 4: Rare, Threatened, Endangered Species Map

Attachment 5: HEC-RAS Results

Attachment 6: Opinion of Probable Cost (OPC)

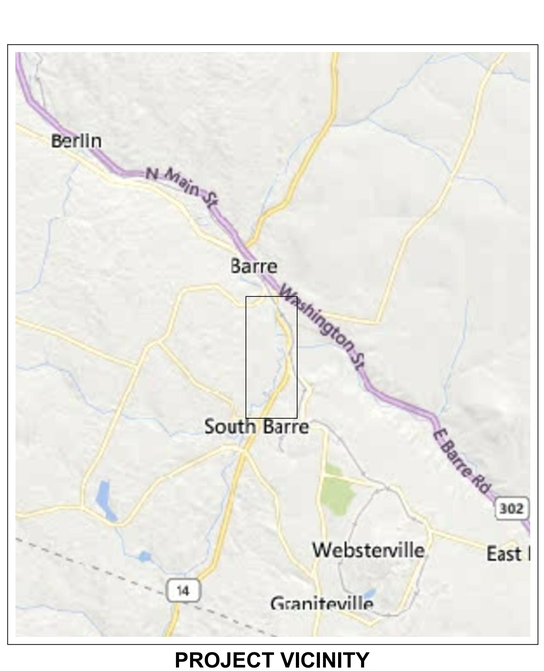
BARRE DAMS - REMOVAL FEASIBILITY AND PRELIMINARY DESIGN

TOWN OF BARRE, VERMONT

PREPARED FOR:
FRIENDS OF THE WINOOSKI RIVER & THE CITY OF BARRE

PREPARED BY:
STONE ENVIRONMENTAL, INC.

30% DESIGN
ISSUED: 2/02/2023



PROJECT VICINITY
SCALE: 1" = 4000'

PROJECT LOCATION
SCALE: 1" = 1000'

SHEET LIST TABLE

SHEET NUMBER	SHEET TITLE
1	COVER SHEET
2	GENERAL NOTES
3	JH - EXISTING CONDITIONS SITE PLAN
4	JH - PROPOSED CONDITIONS SITE PLAN
5	HBP - EXISTING CONDITIONS SITE PLAN
6	HBP - PROPOSED CONDITIONS SITE PLAN
7	BS - EXISTING CONDITIONS SITE PLAN
8	BS - PROPOSED CONDITIONS SITE PLAN
9	BS - PROPOSED PROFILE, SECTION, & DETAILS
10	JH - STREAM LONG PROFILE
11	HBP - STREAM LONG PROFILE
12	BS - STREAM LONG PROFILE

DRAFT - NOT FOR CONSTRUCTION

DRAWING CREDITS

DRAWN ON:	12/6/2022
DRAWN BY:	MLS/CRT
CHECKED ON:	02/02/2023
CHECKED BY:	GMB
PROJECT NO:	20211186

REVISIONS

#	DATE	DRWN	CHK'D	APP'D	DESCRIPTION

DRAWING SCALE

STONE ENVIRONMENTAL
535 Stone Cutters Way / Montpelier / VT / 05602 / USA
802.229.4541 / info@stone-env.com / www.stone-env.com

BARRE DAMS - REMOVAL FEASIBILITY AND PRELIMINARY DESIGN
COVER SHEET
BARRE VERMONT

SHEET NO. 1

GENERAL NOTES:

1. SPECIFICATIONS FOR DESIGN, MATERIALS AND CONSTRUCTION SHALL MEET OR EXCEED THE FOLLOWING:

1.1. VTRANS - VERMONT AGENCY OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR CONSTRUCTION", 2018, WITH CURRENT STANDARD PLANS AND SUPPLEMENTAL SPECIFICATIONS.

1.2. THIS PLAN SET AND ALL CONDITIONS, SPECIFICATIONS AND SUPPLEMENTS TO STANDARD SPECIFICATIONS CONTAINED WITHIN THE CONTRACT DOCUMENTS.

2. FINAL RESOLUTION TO CONFLICTS WITHIN THE SPECIFICATIONS OR ANY SUBSTITUTIONS SHALL BE DETERMINED BY THE ENGINEER.

3. UTILITIES:

3.1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE LOCATION OF ALL UTILITIES PRIOR TO ANY CONSTRUCTION PROCEDURE. THERE ARE NUMEROUS UTILITIES IN THE IMMEDIATE VICINITY OF THE PROJECT. THE CONTRACTOR IS ADVISED THAT EXTREME CAUTION WILL BE REQUIRED IN THE OPERATION OF EQUIPMENT. CONTACT DIG-SAFE AT 1-888-DIG-SAFE. CONTACT THE CITY OF BARRE FOR MARKING OF THEIR UTILITIES.

3.2. TEMPORARY RELOCATION OF UTILITIES, IF NECESSARY, DURING CONSTRUCTION IS THE RESPONSIBILITY OF THE CONTRACTOR AND CONSIDERED INCIDENTAL TO THE WORK.

3.3. DAMAGE TO ANY UTILITY BY THE CONTRACTOR SHALL BE REPORTED TO THE UTILITY COMPANY. REPAIR OF THE UTILITY SHALL BE PAID FOR BY THE CONTRACTOR.

4. THE CONTRACTOR SHALL NOT DISTURB ANY EXISTING PROPERTY CORNER, MONUMENT, SURVEY MARKER, OR BENCHMARK WITHOUT FIRST MAKING PROVISIONS FOR ITS REPLACEMENT OR RELOCATION.

SHOP DRAWING APPROVAL PROCESS:

1. THE FOLLOWING PROCESS WILL BE FOLLOWED REGARDING THE SUBMISSION AND APPROVAL OF SHOP DRAWINGS.

1.1. CONTRACTOR SUBMITS SHOP DRAWING TO ENGINEER FOR REVIEW AND COMMENT.
1.2. FOLLOWING REVIEW, THE ENGINEER SENDS COMMENTS BACK TO THE CONTRACTOR.
1.3. CONTRACTOR SUBMITS REVISED SHOP DRAWINGS (IF NECESSARY) TO ENGINEER; ENGINEER ENSURES COMMENTS ARE INCORPORATED INTO THE REVISED SHOP DRAWINGS.
1.4. IF COMMENTS ARE ADDRESSED APPROPRIATELY, ENGINEER WILL PROVIDE SHOP DRAWING APPROVAL STAMP, DISTRIBUTE COPIES TO APPLICABLE PARTIES, AND STORE APPROVED DOCUMENTS IN PROJECT FILES.
1.5. IF COMMENTS ARE NOT ADDRESSED, REPEAT STEPS 1.1 THROUGH 1.3.

2. ENGINEER REVIEW AND APPROVAL DOES NOT RELIEVE THE CONTRACTOR OF FULL RESPONSIBILITY FOR ANY NEGLIGENCE IN THE CONSTRUCTION OF THE PROJECT RESULTING FROM SHOP DRAWINGS. ENGINEER REVIEW AND APPROVAL OF SHOP DRAWINGS IS NOT A WARRANTY OF THE ADEQUACY AND CORRECTNESS OF SHOP DRAWINGS; THE CONTRACTOR IS RESPONSIBLE FOR THE CORRECTNESS OF SHOP DRAWINGS AND ALL ASSOCIATED CALCULATIONS.

3. CONTRACTOR SHALL SUBMIT MATERIALS SPECIFICATIONS AND LABORATORY TEST RESULTS FOR EACH MATERIAL PROPOSED TO BE USED FOR CONSTRUCTION.

GENERAL CONSTRUCTION NOTES:

1. ALL ITEMS SHALL BE CONSTRUCTED TO THE DIMENSIONS SHOWN ON THE DRAWINGS. ANY CHANGES REQUIRE APPROVAL BY THE ENGINEER.

2. PRIOR TO BEGINNING CONSTRUCTION THE FOLLOWING PEOPLE SHALL BE NOTIFIED:

2.1. DIG-SAFE
2.2. LANDOWNER, IF APPLICABLE
2.3. PROJECT ENGINEER
2.4. CITY OF BARRE
2.5. FRIENDS OF THE WINOOSKI RIVER

3. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE ENGINEER IMMEDIATELY IF PROBLEMS OR UNFORESEEN CIRCUMSTANCES ARISE DURING CONSTRUCTION.

4. ALL TESTING SHALL BE ORDERED BY THE ENGINEER AND COORDINATED BY THE CONTRACTOR IN ACCORDANCE WITH VTRANS AND PROJECT SPECIFICATIONS. CONTRACTOR SHALL GIVE THE ENGINEER 24 HOURS ADVANCE NOTICE PRIOR TO PLACING MATERIALS REQUIRING TESTING. TESTING COSTS ARE SUBSIDIARY AND SHALL BE INCLUDED IN THE ITEM UNIT PRICE.

5. DETERMINATION OF MAXIMUM DENSITIES FOR SAND AND GRAVELS IS THE RESPONSIBILITY OF THE CONTRACTOR. MODIFIED PROCTOR TESTS ORDERED BY THE ENGINEER SHALL BE SAMPLED AND PERFORMED BY AN INDEPENDENT TESTING LABORATORY AND PAID FOR BY THE CONTRACTOR. TESTING COSTS ARE SUBSIDIARY AND SHALL BE INCLUDED IN THE ITEM UNIT PRICE.

6. ALL SOIL MOVING EQUIPMENT SHALL BE THOROUGHLY CLEANED PRIOR TO BEING DELIVERED TO THE PROJECT SITE TO MAKE IT FREE OF SOIL, NON-NATIVE INVASIVE SPECIES OR OTHER DEBRIS THAT COULD CONTAIN OR HOLD SEEDS. EQUIPMENT SHALL BE CONSIDERED FREE OF NON-NATIVE OR INVASIVE SPECIES AND OTHER SUCH DEBRIS WHEN A VISUAL INSPECTION BY THE ENGINEER, COMPLETED PRIOR TO THE EQUIPMENT BEING MOVED TO THE SITE, DOES NOT DISCLOSE SUCH MATERIAL PRESENT.

7. WHERE RELEVANT, TOPSOIL SHALL BE STRIPPED AND STOCKPILED TO BE USED TO RESTORE DISTURBED AREAS.

8. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ANY REQUIRED TRAFFIC CONTROL INCLUDING, BUT NOT LIMITED TO TEMPORARY TRAVEL LANE, TEMPORARY CROSSING, JERSEY BARRIERS, OR OTHER BARRICADES, SIGNAGE AND FLAGGERS.

9. CONTRACTOR SHALL PROTECT EXISTING FACILITIES AND UTILITY LINES FROM ALL DAMAGE. NOTED AND/OR OBSERVABLE SUBSURFACE IMPROVEMENTS SUCH AS UTILITIES, WATER LINES, AND CULVERTS SHALL BE AVOIDED AND REPAIRED AND/OR REPLACED AS NEEDED. REPAIR OF UNFORESEEN SUBSURFACE IMPROVEMENTS WILL BE NEGOTIATED.

10. JOB-SITE SAFETY CONDITIONS, INCLUDING BUT NOT LIMITED TO, MOBILIZATION/DEMOBILIZATION, EXCAVATION, STOCKPILING, MATERIAL PLACEMENT, DAM REMOVAL, CHANNEL RESTORATION, AND SITE GRADING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

11. LEGALLY DISPOSE OF EXCESS MATERIAL OFF SITE.

12. BASIC CONSTRUCTION STANDARDS FOR STORAGE OF MATERIALS, SAFETY PROTECTION, PROTECTION OF NEIGHBORING PROPERTIES, AND RECLAMATION OF DISTURBED AREAS SHALL BE FOLLOWED. ALL LANDSCAPING MUST BE RETURNED TO THE ORIGINAL CONDITION OR MODIFIED PER THESE PLANS.

13. CONTRACTOR SHALL CONSTRUCT APPROPRIATE FENCES AND BARRIERS AROUND ALL CONSTRUCTION SITES, STORAGE SITES, AND EXCAVATIONS TO SAFE GUARD THE PUBLIC FROM THE CONSTRUCTION SITE.

14. DETAILS SHOWN ON ANY DRAWINGS ARE TO BE CONSIDERED TYPICAL FOR ALL SIMILAR CONDITIONS, UNLESS OTHERWISE NOTED.

15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO ANY UTILITIES AND SHALL REPAIR ANY DAMAGE AS QUICKLY AS POSSIBLE AT THEIR OWN EXPENSE. ALL REPAIRS SHALL MEET TOWN STANDARDS AND APPROPRIATE TESTING. REPAIRS SHALL BE INSPECTED BY THE ENGINEER AND THE TOWN PRIOR TO BACKFILL.

16. ALL EXCAVATION AND BACKFILL SHALL BE COMPLETED AS SOON AS POSSIBLE. OPEN TRENCHES SHALL BE PROPERLY BARRICADED AND WARNED FOR PEDESTRIANS AND VEHICLES.

17. GRANULAR BACKFILL FOR STRUCTURES SHALL CONSIST OF SATISFACTORILY GRADED, FREE DRAINING GRANULAR MATERIAL REASONABLY FREE FROM LOAM, SILT, CLAY AND ORGANIC MATERIAL IN ACCORDANCE WITH SECTION 704.08 OF THE VT AGENCY OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION.

EROSION PREVENTION & SEDIMENT CONTROL NOTES:

1. BEFORE ANY CLEARING, GRUBBING, OR DEMOLITION OF THE SITE IS INITIATED, AND DURING ALL EARTHWORK PHASES, EROSION CONTROL MEASURES SHALL BE CONSTRUCTED AND MAINTAINED AT THE INLET OF ANY STORM DRAINS, SWALES, AND DITCHES RECEIVING WATER FROM THE PROJECT. SEE TYPICAL DETAILS AND PLANS FOR TYPES AND LOCATIONS.

2. SILT FENCE OR FIBER ROLL SHALL BE PLACED DOWN GRADIENT OF ALL DISTURBED AREAS. IF THE DISTURBED AREA IS 100' OR LESS FROM THE WATERS OF THE STATE THE SILT FENCE SHALL BE REQUIRED AND SHALL BE WIRE MESH REINFORCED.

3. ALL STOCKPILED SOIL SHALL BE ENCIRCLED WITH SILT FENCE OR FIBER ROLL, UNLESS AN EXISTING BARRIER WILL ENTRAP ALL EROSION FROM SUCH A STOCKPILE OR THE STOCKPILE IS COMPLETELY COVERED WITH VEGETATION THAT PREVENTS EROSION.

4. NO MORE THAN 500 FEET OF TRENCH SHALL BE OPEN AT ONE TIME AND EXCAVATED MATERIAL TO BE USED FOR BACKFILL SHALL BE PLACED ON THE UPHILL SIDE OF THE TRENCH. ALL OTHER EXCAVATED MATERIAL SHALL BE DISPOSED OF OFF-SITE AT AN APPROVED LOCATION.

5. NO MORE THAN 1 ACRE SHALL BE DISTURBED (WITHOUT TEMPORARY OR FINAL STABILIZATION) AT ANY ONE TIME.

6. EROSION CONTROLS SHALL BE INSPECTED WEEKLY AND AFTER ANY RAIN EVENT WHICH PRODUCES RUNOFF BY THE ON-SITE COORDINATOR, WHO WILL BE RESPONSIBLE FOR RECTIFYING ANY PROBLEMS FOUND. ALL INSPECTION FORMS SHALL BE KEPT ON-SITE AS RECORDS OF THE CONDITION OF THE EROSION CONTROL MEASURES. TEMPORARY EROSION CONTROL MEASURE SHALL BE REMOVE WITH 30 DAYS OF PERMANENT SITE STABILIZATION.

7. BEFORE AND AFTER EVERY STORM ALL STRUCTURAL EROSION CONTROL MEASURES SHALL BE INSPECTED FOR FAILURES OR CLOGGING, AND ANY FAILURE OR CLOGGING SHALL BE RECTIFIED. DURING THE WINTER CONSTRUCTION SEASON SPECIAL ATTENTION SHALL BE PAID TO THE CHANGES IN WEATHER THAT COULD CAUSE SIGNIFICANT SNOW MELT AND RUNOFF.

8. STONE INLET PROTECTION OR SEDIMENT TRAP CATCH BASIN INSERTS SHALL BE PLACED IN ALL NEW AND EXISTING CATCH BASINS WHICH RECEIVE RUNOFF FROM DISTURBED AREAS. THE PLACING OF THESE TRAPS AND DAMS SHALL BE AS SHOWN ON THE PLANS. MAINTENANCE SHALL BE AS IN #7 ABOVE.

9. EROSION CONTROL MEASURES INDICATED ON THE PLANS ARE THE MINIMUM NUMBER REQUIRED. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO USE ADDITIONAL BARRIERS AS FIELD CONDITIONS DICTATE AND TO ENSURE THAT ANY EROSION CREATED BY THIS PROJECT DOES NOT REACH THE WATERS OF THE STATE OR LEAVE THE SITE.

10. NEW SWALES AND DITCHES (AND ANY OTHER AREA SUBJECT TO CONCENTRATED STORM RUNOFF) SHALL BE FERTILIZED AND SEEDED WITH THE FOLLOWING MIXTURE TO AT LEAST TWO (2) FEET ABOVE THE CHANNEL BOTTOM ALONG THE CHANNEL BANKS:

SEED	LBS/ACRE
CREEPING RED FESCUE	20
REDTOP	2
SMOOTH BROMEGRASS	20

11. IN ALL SWALES AND DITCHES, AND WHERE SLOPE GRADE EXCEEDS 25 PERCENT (1 ON 4 SLOPE), JUTE MATTING SECURELY ATTACHED TO THE GROUND SHALL BE PLACED OVER MULCH AND MAINTAINED UNTIL A PERMANENT GRASS COVER IS ESTABLISHED.

12. STONE LINE ALL SWALES AND DITCHES WHERE SLOPE GRADES ARE BETWEEN 5 PERCENT (1 ON 20 SLOPE) AND 10 PERCENT (1 ON 10 SLOPE) WITH 7.5" OF STONE FILL, TYPE I.

13. STONE LINE ALL SWALES AND DITCHES WHERE SLOPE GRADES EXCEED 10 PERCENT (1 ON 10 SLOPE) WITH 12" OF STONE FILL, TYPE II.

14. CONTRACTOR SHALL APPLY DUST CONTROL MEASURES AS NECESSARY OR AS DIRECTED BY THE ENGINEER TO PREVENT THE AIR MOVEMENT OF DUST. ACCEPTABLE METHODS OF DUST CONTROL ARE VEGETATIVE COVER, MULCHING, SPRINKLING OF WATER, OR THE USE OF CALCIUM CHLORIDE.

15. AT THE COMPLETION OF THE PROJECT, ALL STORMWATER DRAINAGE FACILITIES INCLUDING DITCHES, GRASSED SWALES, CATCH BASINS, SUMPS, CULVERTS, STORM DRAINS, STORM MANHOLES, OUTLET STRUCTURES, STORM FILTERS, ETC SHALL BE CLEANED AND FREE OF SILT, SEDIMENT, OR DEBRIS WHICH MIGHT IMPAIR THE PROPER OPERATION OF THE FACILITIES.

16. ALL DISTURBED TERRAIN AT FINAL GRADE SHALL BE SEEDED AND MULCHED WITHIN 48 HOURS OF COMPLETION, AND BY SEPTEMBER 15TH AT THE LATEST. BEFORE APPLYING FINAL SEEDING A FOUR (4) INCH AVERAGE DEPTH OF TOPSOIL SHALL BE PLACED IN ALL DISTURBED AREAS TO BE SEEDED. FERTILIZER SHALL BE APPLIED TO THE TOP 2-INCHES OF TOPSOIL AT A RATE OF 500 LBS/ACRE. SEED MIXTURES SHALL BE ONE AS SPECIFIED ON LANDSCAPING PLAN. IF NO SEED MIXTURE IS SPECIFIED IT SHALL BE ONE OF THE FOLLOWING, AS APPROPRIATE.

EPSC NOTES (CONTINUED):

UPLAND AREAS	
NEW ENGLAND CONSERVATION/WILDLIFE SEED MIX (OR EQUIVALENT)	LBS/ACRE 25
WETLAND AREAS	LBS/ACRE
NEW ENGLAND WETMIX (OR EQUIVALENT)	18

SEE HTTPS://NEWP.COM/CATALOG/SEED-MIXES/ FOR DETAILS ON SPECIES CONTAINED IN ABOVE SEED MIXES.

NOTE: KENTUCKY BLUEGRASS AND BIRDSFOOT TREFOIL ARE EXPRESSLY FORBIDDEN.

17. ALL NEWLY SEEDED AREAS SHALL BE MULCHED AT A RATE OF TWO (2) TONS PER ACRE OF STRAW. DURING WINTER CONSTRUCTION MULCH SHALL BE APPLIED AT A RATE OF 4 TONS PER ACRE. JUTE OR OTHER EQUAL NETTING SHALL BE USED WHERE WIND OR WATER MAY ERODE NEWLY-PLACED SEED OR MULCH OR WHERE GRADE EXCEEDS 25% (1:4). ALL NETTING, WHERE USED, SHALL BE STAKED TO THE GROUND IN COMPLIANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

18. ALL STRAW MULCH SHALL BE TACKED DOWN TO PREVENT WINDTHROW. JUTE MATTING OR EQUIVALENT SHALL BE USED WHERE INDICATED ON PLANS. IN ALL OTHER AREAS MULCHED SHALL BE TRACKED WITH A BULLDOZER. THE CLEATS OF THE BULLDOZER SHALL BE PARALLEL TO THE CONTOURS. DURING THE WINTER CONSTRUCTION SEASON NETTING OR JUTE MATTING SHALL BE USED TO TACK DOWN ALL MULCH.

19. ALL DISTURBED AREAS NOT AT FINAL GRADE THAT WILL NOT BE DISTURBED AGAIN FOR A PERIOD OF GREATER THAN THIRTY (30) DAYS, SHALL BE SEEDED WITH A TEMPORARY, RAPID-GROWING COVER CROP, SUCH AS RYE GRASS AND MILLET, AND SHALL BE MULCHED. NETTING SHALL ALSO BE APPLIED, AS SPECIFIED IN ITEM 15, TO STABILIZE THE MULCH AND SEED.

20. ALL DISTURBED AREAS MUST HAVE TEMPORARY OR FINAL STABILIZATION WITHIN 14 DAYS OF THE INITIAL DISTURBANCE. AFTER THIS TIME, ANY DISTURBANCE IN THE AREA MUST BE STABILIZED AT THE END OF EACH WORK DAY. THE FOLLOWING EXCEPTIONS APPLY: I) STABILIZATION IS NOT REQUIRED IF WORK IS TO CONTINUE IN THE AREA IN THE NEXT 24 HOURS AND THERE IS NO PRECIPITATION FORECAST FOR THE NEXT 24 HOURS. II) STABILIZATION IS NOT REQUIRED IF THE WORK IS OCCURRING IN A SELF-CONTAINED EXCAVATION (I.E. NO OUTLET) WITH A DEPTH OF 2-FEET OR GREATER (E.G. FOUNDATION EXCAVATION, UTILITY TRENCHES)

CHANNEL RECONSTRUCTION NOTES:

1. ITEM 585.0001 - CHANNEL BED MATERIAL - SUITABLE EXCAVATED MATERIAL USED FOR CONSTRUCTION OF STREAM BED SHALL MEET THE GRADATION REQUIREMENTS BELOW AND MUST BE APPROVED BY THE ENGINEER PRIOR TO PLACEMENT. WHEN SUITABLE EXCAVATED MATERIAL IS NOT AVAILABLE FOR STREAM BED CONSTRUCTION THE CONTRACTOR SHALL SOURCE A MATERIAL MEETING THE GRADATIONS IN THIS TABLE.

SIZE OF MATERIAL (MM)	% OF MIX
SAND (<2)	
GRAVEL (2 - 16)	
COARSE GRAVEL (16 - 64)	TBD
COBBLE (64 - 256)	
BOULDER (>256)	

ALL FILL PLACED WITHIN THE CHANNEL LIMITS SHALL BE SUB-ROUNDED, ROUNDED, OR WELL-ROUNDED RIVER STONE.

2. FLOODPLAIN AREAS SHALL BE CONSTRUCTED BY REMOVING AND STOCKPILING TOPSOIL, SCARIFYING NATIVE, INORGANIC SOIL, AND THEN PLACING AND COMPACTING SUITABLE EXCAVATED MATERIAL IN 8-INCH LIFTS.

3. FLOODPLAIN AREAS SHALL BE SEEDED WITH NEW ENGLAND CONSERVATION MIX AT AN APPLICATION RATE OF 25 LB/ACRE OR PER SEED MANUFACTURER'S REQUIREMENTS.

SURVEY NOTES:

1. PARCEL LINES PROVIDED ON THIS SHEET ARE FROM SHAPEFILES PROVIDED BY THE STATE, DO NOT REPRESENT A BOUNDARY SURVEY AND SHOULD BE CONSIDERED APPROXIMATE.

2. EXISTING ELEVATIONS AND REPRESENTATION OF TOPOGRAPHY ARE A COMBINATION OF SURVEY EXECUTED BY MATT SCHILEY, PE, AND MEGHAN ARPINO OF STONE ENVIRONMENTAL, INC. FROM OCTOBER 27, 2021 THROUGH OCTOBER 29, 2021 USING A GEOMAX ZOOM 30 SERIES TOTAL STATION; SURVEY EXECUTED BY GABE BOLIN, PE, OF STONE ENVIRONMENTAL, INC. FROM OCTOBER 27, 2021 THROUGH OCTOBER 29, 2021 USING A GEOMAX ZENITH 40 SERIES GPS SYSTEM; AND 2013-2017 CONTOUR LIDAR DATA DOWNLOADED FROM THE VERMONT CENTER FOR GEOGRAPHIC INFORMATION LIDAR PROGRAM. THESE ELEVATION DATA ARE FOR THE PURPOSES OF THIS PLAN ONLY.

3. CONTOUR INTERVAL = 1 FOOT.

4. THIS IS NOT A BOUNDARY SURVEY AND DOES NOT MEET THE LEGAL REQUIREMENTS OF A BOUNDARY SURVEY AS DESCRIBED IN 27 V.S.A. 1403.

5. WHERE UNDERGROUND UTILITIES ARE PRESENT, LOCATIONS AND ELEVATIONS ARE APPROXIMATE - CONTRACTOR TO VERIFY ALL UTILITIES IN FIELD, INCLUDING SERVICE LINES (NOT SHOWN), BEFORE EXCAVATING.

JOCKEY HOLLOW DESIGN DATA:

1. CHANNEL DATA ASSOCIATED WITH PROPOSED CONDITIONS JUST UPSTREAM OF THE DAM:

STORM EVENT	PEAK FLOW (CFS)	W.S. ELEVATION (FEET)
2 YEAR	954	655.2
10 YEAR	1840	657.6
50 YEAR	2860	659.3
100 YEAR	3360	660.1

2. DRAINAGE AREA = 34.1 SQUARE MILES
3. EX. CHANNEL BANKFULL WIDTH = 36.4 - 70.5'
4. EX. CHANNEL BANKFULL DEPTH = 2.6 - 4.2'
5. EX. CHANNEL SLOPE (UPSTREAM OF DAM) = 0% (BACKWATERED 300' LINEAR FEET TO BASE OF 25' BEDROCK CASCADE)
6. EX. CHANNEL SLOPE (DOWNSTREAM OF DAM) = 0% (BACKWATERED BY HABBEP DAM)
7. PROPOSED MAIN CHANNEL SLOPE = 1.6%

HABBEP DESIGN DATA:

1. CHANNEL DATA ASSOCIATED WITH PROPOSED CONDITIONS JUST UPSTREAM OF THE DAM:

STORM EVENT	PEAK FLOW (CFS)	W.S. ELEVATION (FEET)
2 YEAR	968	643.7
10 YEAR	1860	644.9
50 YEAR	2900	645.9
100 YEAR	3410	646.4

2. DRAINAGE AREA = 35.0 SQUARE MILES
3. EX. CHANNEL BANKFULL WIDTH = 40.1 - 47.6'
4. EX. CHANNEL BANKFULL DEPTH = 3.1 - 4.8'
5. EX. CHANNEL SLOPE (UPSTREAM OF DAM) = 0% (BACKWATERED)
6. EX. CHANNEL SLOPE (DOWNSTREAM OF DAM) = 5.1% THROUGH BEDROCK REACH; 0.3% THEREAFTER
7. PROPOSED CHANNEL SLOPE = 1.4%

BROOKLYN STREET DESIGN DATA:

1. CHANNEL DATA ASSOCIATED WITH PROPOSED CONDITIONS JUST UPSTREAM OF THE DAM:

STORM EVENT	PEAK FLOW (CFS)	W.S. ELEVATION (FEET)
2 YEAR	2120	601.2
10 YEAR	4010	604.2
50 YEAR	6160	607.1
100 YEAR	7210	608.3

2. DRAINAGE AREA = 83.7 SQUARE MILES
3. EX. CHANNEL BANKFULL WIDTH = 63.5 - 68.8'
4. EX. CHANNEL BANKFULL DEPTH = 3.7 - 4.4'
5. EX. CHANNEL SLOPE (UPSTREAM OF DAM) = 0% (BACKWATERED)
6. EX. CHANNEL SLOPE (DOWNSTREAM OF DAM) = 0.2%
7. PROPOSED CHANNEL SLOPE = 1.9%
8. PROPOSED PASSAGE CHANNEL SLOPE = 5.6%

MASTER LEGEND

- CONTROL POINT
- LARGE TREE
- SHRUB OR ORNAMENTAL TREE
- EXISTING STORMWATER CATCHBASIN
- WELL
- WATER VALVE
- HYDRANT
- UTILITY POLE
- LIGHT POST
- IRON ROD FOUND
- EDGE OF ROAD
- ROAD CENTERLINE
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- TREELINE
- EXISTING THALWEG
- EXISTING TOP OF BANK
- PARCEL BOUNDARY
- EXISTING EDGE OF WATER
- EXISTING WETLAND
- EXISTING CULVERT
- EXISTING STORMWATER SYSTEM
- WATER MAIN
- OVERHEAD UTILITY
- BUILDING HATCH
- EXISTING BEDROCK
- PROPOSED CONTOUR
- PROPOSED ODD CONTOUR
- PROPOSED LIMIT OF DISTURBANCE (LOD)
- PROPOSED CULVERT
- PROPOSED STORMWATER SYSTEM
- PROPOSED FENCE
- PROPOSED 'SPOT SHOT' ELEVATION
- PROPOSED STORMWATER CATCHBASIN
- PROPOSED STORMWATER MANHOLE
- SILT FENCE
- BYPASS PUMP LINE
- STAGING/STOCKPILE AREA
- PLANTING AREA
- SOIL BACKFILL

DRAWING CREDITS

DRAWN ON: 01/28/2022
DRAWN BY: MLS/CRT
CHECKED ON: 02/02/2023
CHECKED BY: GMB
PROJECT NO: 20211186

REVISIONS

#	DATE	DRWN	CHK'D	APP'D	DESCRIPTION

DRAWING SCALE

STONE ENVIRONMENTAL
535 Stone Cutters Way / Montpelier / VT / 05602 / USA
802.229.4541 / info@stone-env.com / www.stone-env.com

BARRE DAMS - REMOVAL FEASIBILITY AND PRELIMINARY DESIGN
GENERAL NOTES
BARRE VERMONT

SHEET NO. 2

CONTROL POINT TABLE			
POINT DESCRIPTION	NORTHING	EASTING	ELEVATION
CP1	612460.7688'	1639367.2426'	652.700'
CP2	612485.4523'	1639302.1512'	657.359'
CP3	612328.1050'	1639307.6577'	681.222'

PROPERTY OWNERSHIP TABLE	
1	SPAN: 039-012-10221 BARRE CITY PO BOX 418, BARRE, VT 05641

DRAWING CREDITS

DRAWN ON: 01/28/2022
DRAWN BY: MLS
CHECKED ON: 02/04/2022
CHECKED BY: GMB
PROJECT NO: 20211186

REVISIONS

#	DATE	DRWN	CHK'D	APP'D	DESCRIPTION

DRAWING SCALE

10 0 10 20 40 ft
2 0 5 10 m
1 inch = 10 feet
(1 : 120)

STONE ENVIRONMENTAL
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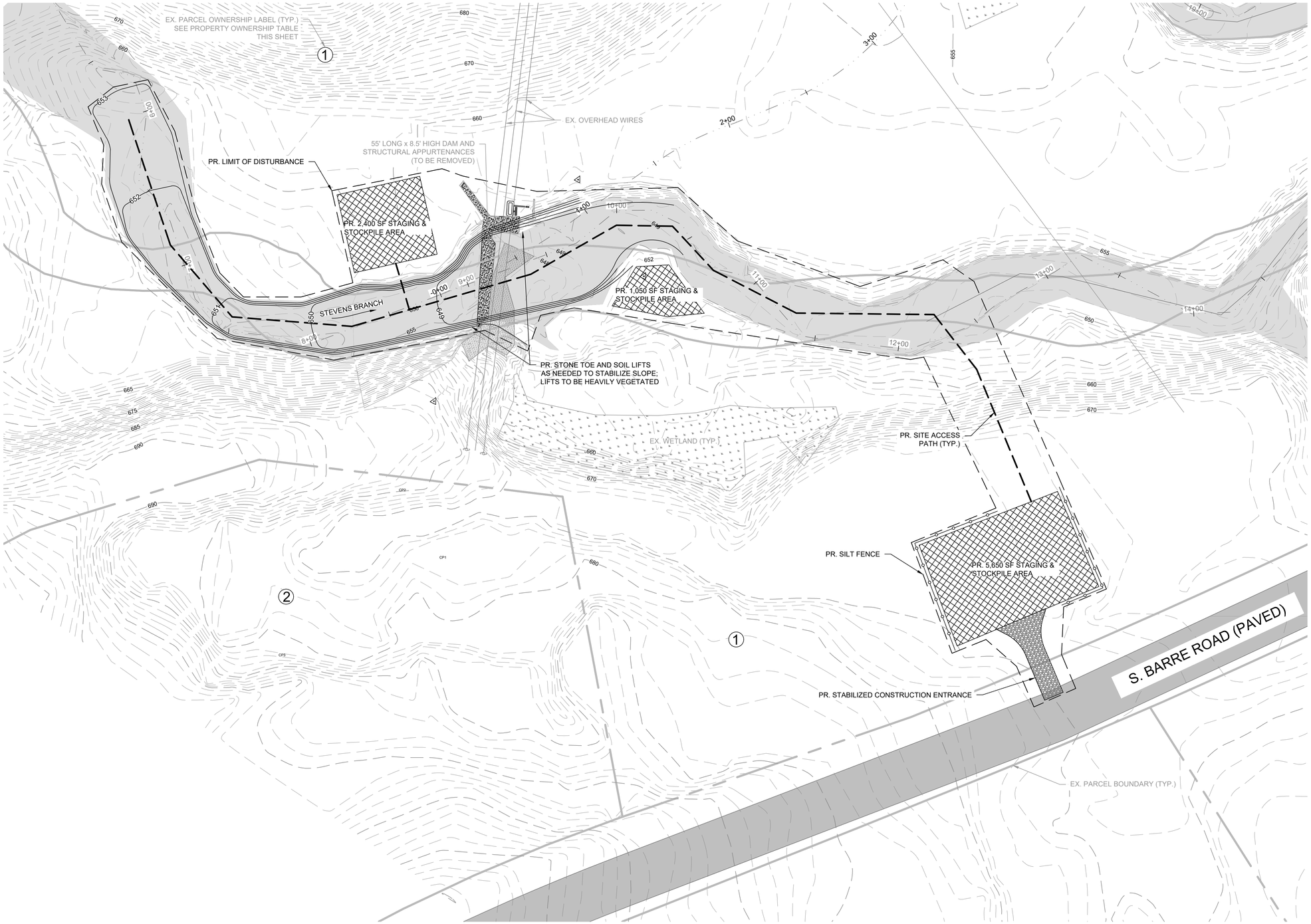
802.229.4541 / info@stone-env.com / www.stone-env.com

BARRE DAMS - REMOVAL FEASIBILITY AND PRELIMINARY DESIGN
JH - EXISTING CONDITIONS SITE PLAN
BARRE VERMONT

SHEET NO. 3



CONTROL POINT TABLE			
POINT DESCRIPTION	NORTHING	EASTING	ELEVATION
CP1	612460.7688'	1639367.2426'	652.700'
CP2	612485.4523'	1639302.1512'	657.359'
CP3	612328.1050'	1639307.6577'	681.222'

PROPERTY OWNERSHIP TABLE	
1	SPAN: 039-012-10221 BARRE CITY PO BOX 418, BARRE, VT 05641
2	SPAN: 039-012-14555 339 SOUTH BARRE ROAD LLC 163 CIRCLE STREET, BARRE, VT 05641

NOTES:

- PROPOSED CONTOURS SHOWN HERE ARE CONCEPTUAL. FINAL GRADES WILL BE DETERMINED DURING FINAL DESIGN PHASE.

DRAWING CREDITS

DRAWN ON: 12/6/2022
DRAWN BY: MLS/GMB/CR
CHECKED ON: 02/04/2022
CHECKED BY: GMB
PROJECT NO: 20211186

REVISIONS

#	DATE	DRWN	CHK'D	APP'D	DESCRIPTION

DRAWING SCALE

30 0 30 60 120 ft
6 0 15 30 m
1 inch = 30 feet
(1 : 360)

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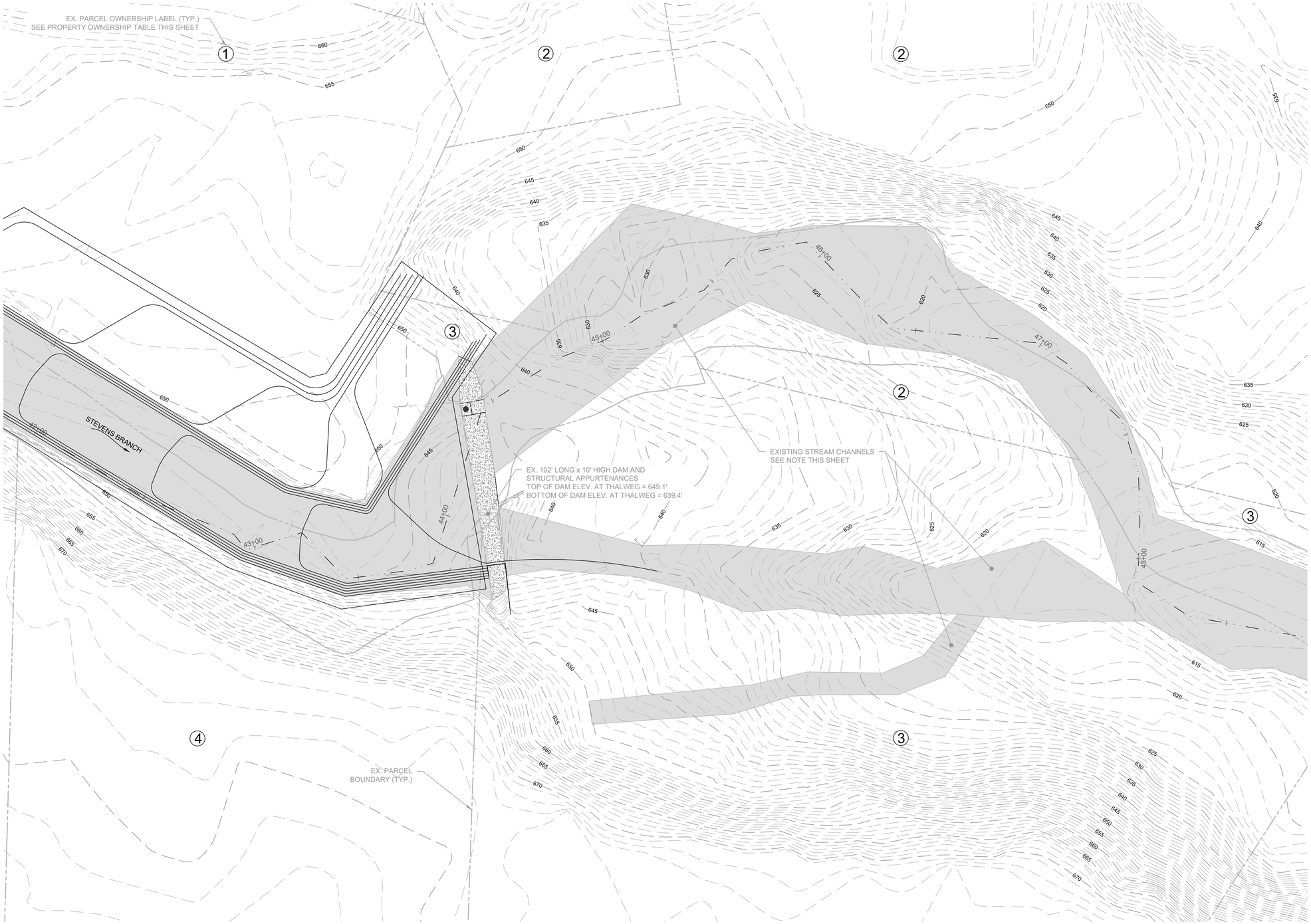
BARRE DAMS - REMOVAL FEASIBILITY AND PRELIMINARY DESIGN
JH - PROPOSED CONDITIONS SITE PLAN
BARRE VERMONT

SHEET NO. 4



NOTES:

- MULTIPLE STREAM CHANNELS PRESENT DOWNSTREAM OF DAM. WESTERN-MOST CHANNEL IS PRIMARY CHANNEL.
- BEDROCK PRESENT THROUGHOUT ALL THREE CHANNELS DOWNSTREAM OF THE DAM; OMNIPRESENCE PRECLUDED ABILITY TO MAP.

PROPERTY OWNERSHIP TABLE	
①	SPAN: 036-011-10723 CITY OF BARRE 6 NORTH MAIN STREET, BARRE, VT 05641
②	SPAN: 036-011-13432 AMANDA E. GARLAND 32 MILL STREET, BARRE, VT 05641
③	SPAN: 036-011-11683 KRISHNA LLC DBA QUALITY INN 138 NORTH MAIN STREET, RUTLAND, VT 05701
④	SPAN: 036-011-11629 METRO DEVELOPMENT LLC 125 NELSON STREET, BARRE, VT 05641

DRAWING CREDITS

DRAWN ON:	01/28/2022
DRAWN BY:	MLS/GMB/CR
CHECKED ON:	02/04/2022
CHECKED BY:	GMB
PROJECT NO:	20211186

REVISIONS

#	DATE	DRWN	CHK'D	APP'D	DESCRIPTION

DRAWING SCALE

20 0 20 40 80 ft
4 0 10 20 m
1 inch = 20 feet
(1 : 240)

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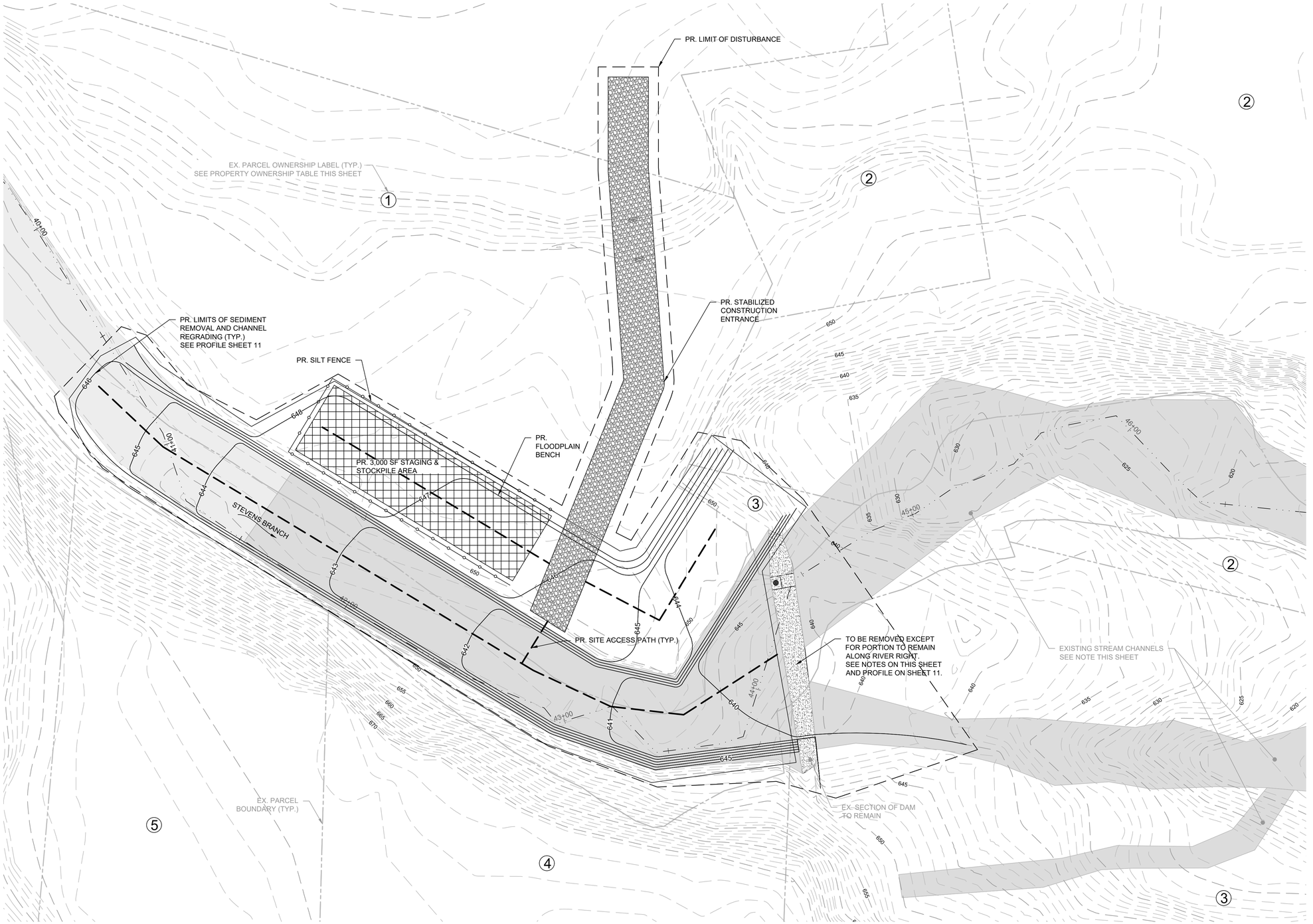
BARRE DAMS - REMOVAL FEASIBILITY AND PRELIMINARY DESIGN
HBP - EXISTING CONDITIONS SITE PLAN
BARRE VERMONT

SHEET NO. 5



NOTES:

- MULTIPLE STREAM CHANNELS PRESENT DOWNSTREAM OF DAM. WESTERN-MOST CHANNEL IS PRIMARY CHANNEL.
- BEDROCK PRESENT THROUGHOUT ALL THREE CHANNELS DOWNSTREAM OF THE DAM; OMNIPRESENCE PRECLUDED ABILITY TO MAP.
- LENGTH OF DAM TO REMAIN TO BE DETERMINED AFTER FIELD EVALUATION OF DAM AND BUILDING BY STRUCTURAL ENGINEER.
- PROPOSED CONTOURS SHOWN HERE ARE CONCEPTUAL. FINAL GRADES WILL BE DETERMINED DURING FINAL DESIGN PHASE.

PROPERTY OWNERSHIP TABLE

1	SPAN: 036-011-10723 CITY OF BARRE 6 NORTH MAIN STREET, BARRE, VT 05641
2	SPAN: 036-011-13432 AMANDA E. GARLAND 32 MILL STREET, BARRE, VT 05641
3	SPAN: 036-011-11683 KRISHNA LLC DBA QUALITY INN 138 NORTH MAIN STREET, RUTLAND, VT 05701
4	SPAN: 036-011-11629 METRO DEVELOPMENT LLC 125 NELSON STREET, BARRE, VT 05641
5	SPAN: 036-011-11621 ILLUZZI FRANK 210 WESTERN AVE BRATTLEBORO, VT, 05301

DRAWING CREDITS

DRAWN ON: 12/6/2022
DRAWN BY: MLS/GMB/CR
CHECKED ON: 02/01/2023
CHECKED BY: GMB
PROJECT NO: 20211186

REVISIONS

#	DATE	DRWN	CHK'D	APP'D	DESCRIPTION

DRAWING SCALE

20 0 20 40.000001 80.000002
4 0 10 20 m
1 inch = 20 feet
(1 : 240)

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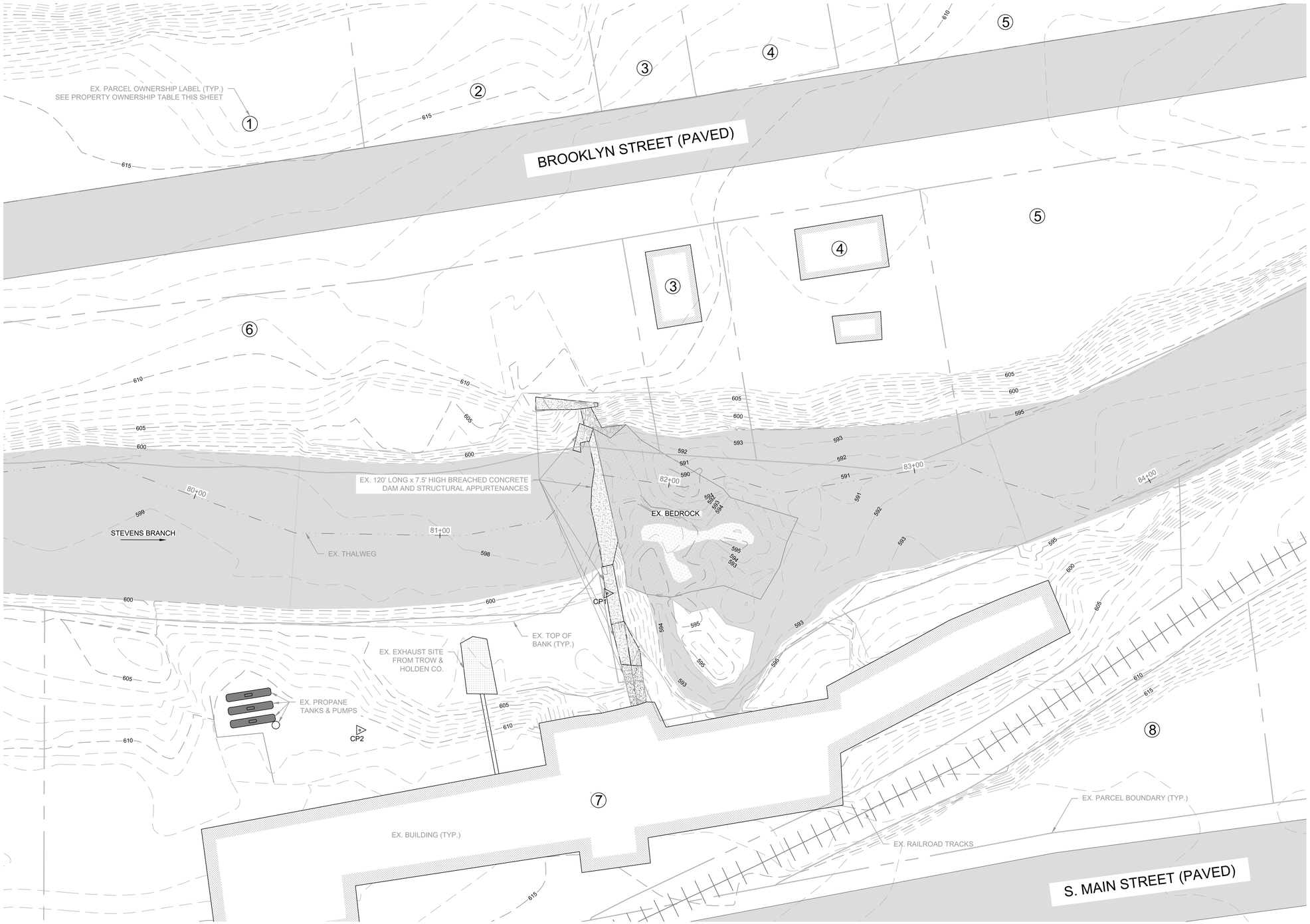
BARRE DAMS - REMOVAL FEASIBILITY AND PRELIMINARY DESIGN
HBP - PROPOSED CONDITIONS SITE PLAN
BARRE VERMONT

SHEET NO. 6



CONTROL POINT TABLE			
POINT DESCRIPTION	NORTHING	EASTING	ELEVATION
CP1	617485.6190'	1640027.7210'	603.440'
CP2	617387.1340'	1640082.0100'	610.507'

PROPERTY OWNERSHIP TABLE	
1	SPAN: 036-011-12371 BIPM LLC PO BOX 383; SOUTH BARRE, VT 05670
2	SPAN: 036-011-11391 BIPM LLC PO BOX 383; SOUTH BARRE, VT 05670
3	SPAN: 036-011-11354 M&K PROPERTIES LLC PO BOX 68; GRANITEVILLE, VT 05654
4	SPAN: 036-011-10356 GARY DONAHUE PO BOX 369; EAST BARRE, VT 05649
5	SPAN: 036-011-12117 BENJAMIN E HISCOCK II & SAMANTHA E DAVIS-HISCOCK BARRE, VT 05641
6	SPAN: 036-011-11344 FRANCINE R GIROUX (VACANT LAND) 7724 VERMONT ROUTE 17 WEST, VERGENNES, VT 05491
7	SPAN: 036-011-12966 TROW & HOLDEN CO 45 SOUTH MAIN STREET, BARRE VT 05641
8	SPAN: 036-011-10202 BOUCHER PROPERTIES LLC, C/O REG BOUCHER 8 STANHOPE STREET, SOUTH BURLINGTON, VT 05403

DRAWING CREDITS

DRAWN ON: 01/28/2022
DRAWN BY: MLS
CHECKED ON: 02/04/2022
CHECKED BY: GMB
PROJECT NO: 20211186

REVISIONS

#	DATE	DRWN	CHK'D	APP'D	DESCRIPTION

DRAWING SCALE

20 0 20 40 80 ft
4 0 10 20 m
1 inch = 20 feet
(1 : 240)

STONE ENVIRONMENTAL
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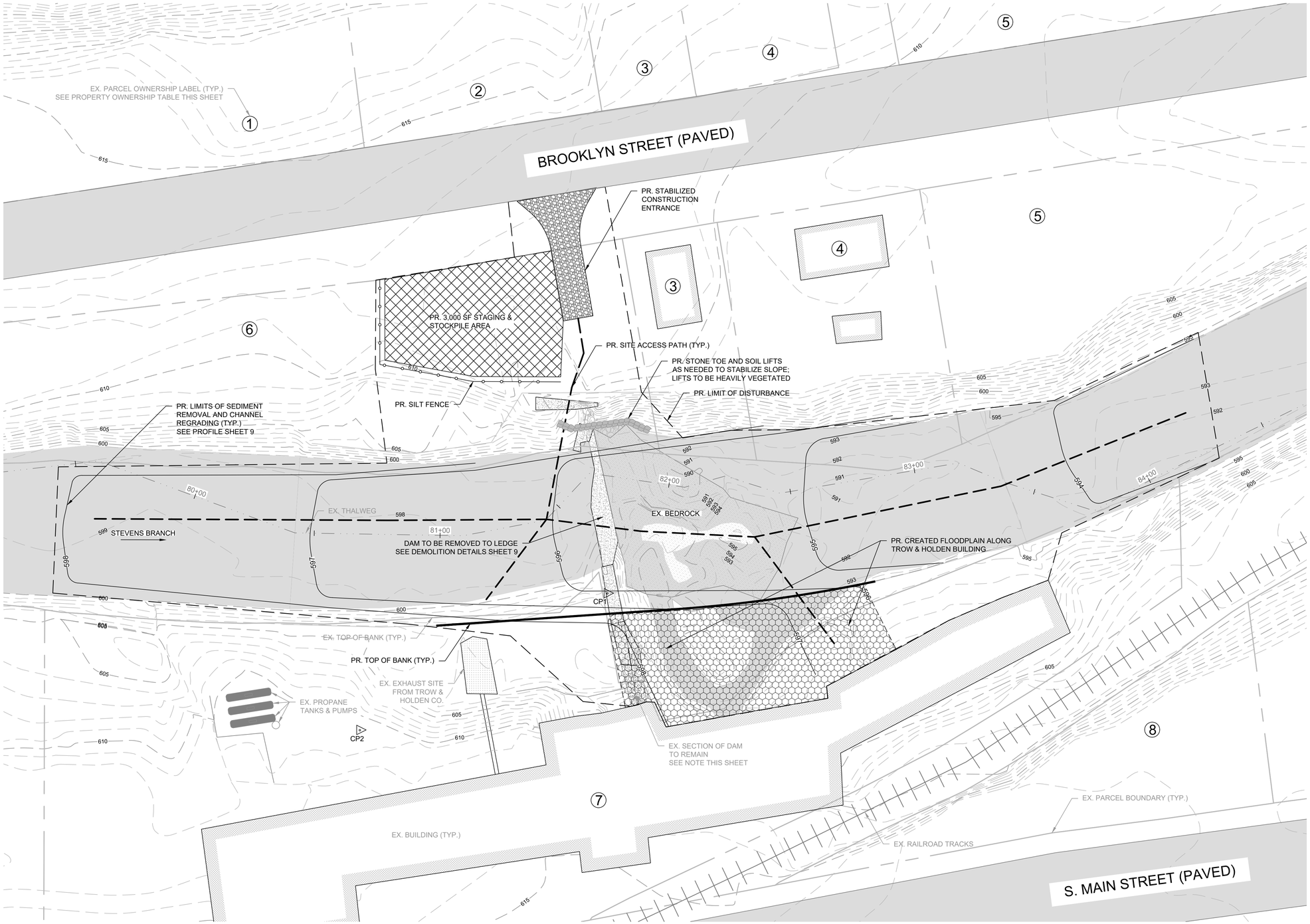
BARRE DAMS - REMOVAL FEASIBILITY AND PRELIMINARY DESIGN
BS - EXISTING CONDITIONS SITE PLAN
BARRE VERMONT

SHEET NO. 7



CONTROL POINT TABLE			
POINT DESCRIPTION	NORTHING	EASTING	ELEVATION
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NOTES:
- LENGTH OF DAM TO REMAIN TO BE DETERMINED AFTER FIELD EVALUATION OF DAM AND BUILDING BY STRUCTURAL ENGINEER.
- PROPOSED CONTOURS SHOWN HERE ARE CONCEPTUAL. FINAL GRADES WILL BE DETERMINED DURING FINAL DESIGN PHASE.

DRAWING CREDITS

DRAWN ON: 12/6/2022
DRAWN BY: MLS/GMB
CHECKED ON: 02/04/2022
CHECKED BY: GMB
PROJECT NO: 20211186

REVISIONS

#	DATE	DRWN	CHK'D	APP'D	DESCRIPTION

DRAWING SCALE

20 0 20 40 80 ft
4 0 10 20 m
1 inch = 20 feet
(1 : 240)

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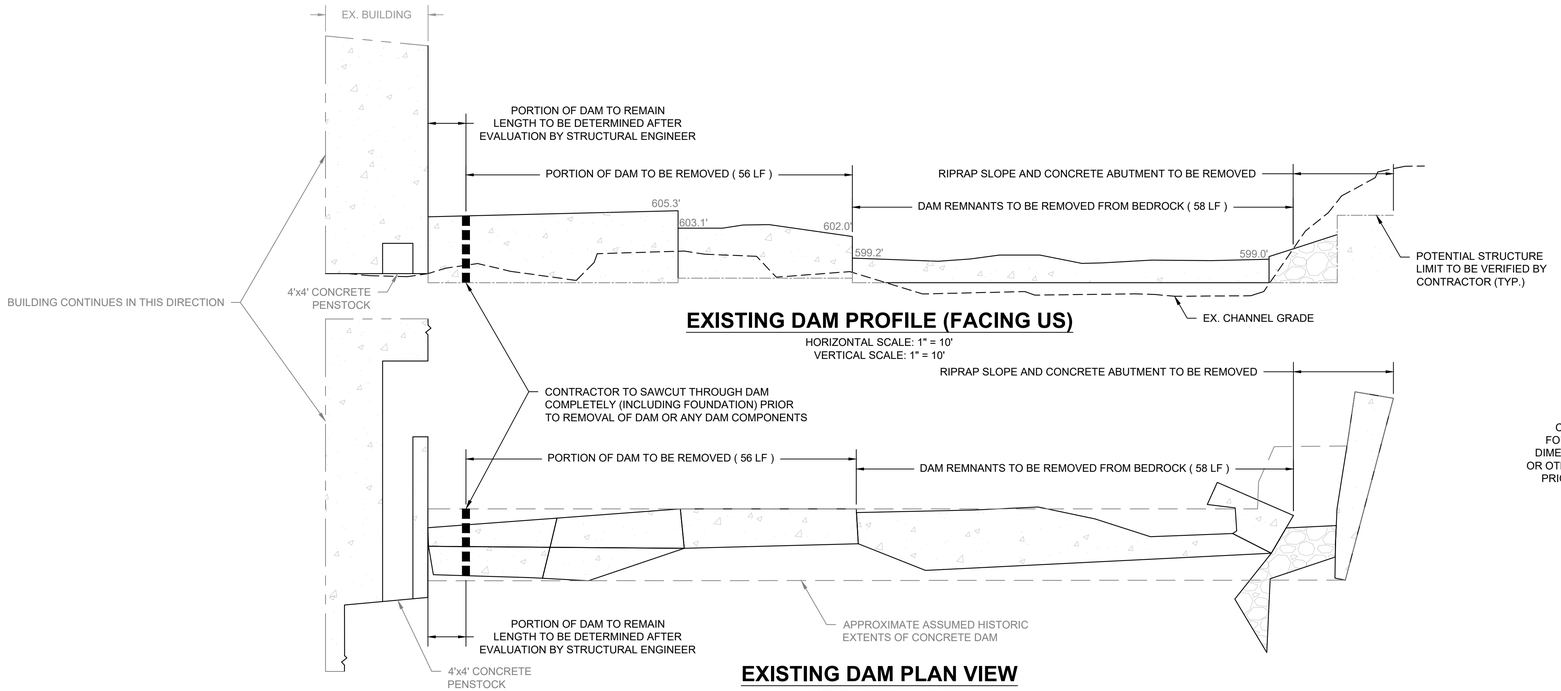
BARRE DAMS - REMOVAL FEASIBILITY AND PRELIMINARY DESIGN
BS - PROPOSED CONDITIONS SITE PLAN
BARRE VERMONT

SHEET NO. 8

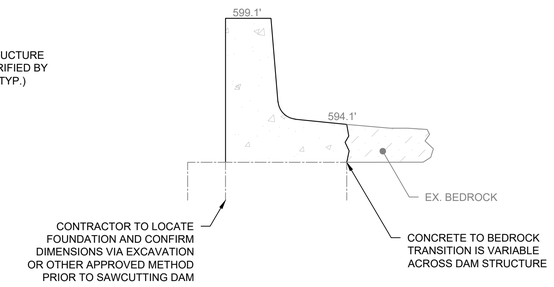


EXISTING DAM PROFILE (FACING US)

HORIZONTAL SCALE: 1" = 10'
VERTICAL SCALE: 1" = 10'

EXISTING DAM PLAN VIEW

HORIZONTAL SCALE: 1" =10'
VERTICAL SCALE: 1" = 10'



EXISTING DAM REPRESENTATIVE SECTION

HORIZONTAL SCALE: 1" = 5'
VERTICAL SCALE: 1" = 5'

NOTES:

1. POTENTIAL LIMITS OF STRUCTURES, AS INDICATED HEREIN, ARE BASED ON SURVEY AND PROBING DATA AND REPRESENT ASSUMED GEOMETRY OF STRUCTURES. THESE LIMITS ARE UNCONFIRMED AND SHOULD BE VERIFIED BY THE CONTRACTOR. UNCONFIRMED STRUCTURE LIMITS ARE PROVIDED FOR INFORMATIONAL PURPOSES ONLY.
2. PROBING WAS CONDUCTED USING AN 8' LONG PROBING ROD. NOTE THAT LACK OF REFUSAL DOES NOT NECESSARILY INDICATE THE ABSENCE OF POTENTIAL STRUCTURES.
3. THE DAM FOUNDATION IS SUSPECTED TO BE ATTACHED TO THE FOUNDATION OF THE ADJACENT BUILDING. CONTRACTOR IS REQUIRED, PRIOR TO ANY DAM REMOVAL OPERATIONS, TO CONFIRM THE DIMENSIONS AND EXTENT OF THE DAM FOUNDATION VIA EXCAVATION OR OTHER APPROVED METHOD. DIMENSIONS AND EXTENT TO BE APPROVED BY THE ENGINEER.
4. ONCE FOUNDATION DIMENSIONS AND EXTENTS ARE KNOWN, CONTRACTOR IS REQUIRED TO FULLY CUT THROUGH THE DAM AND DAM FOUNDATION AT THE LOCATION INDICATED HEREIN PRIOR TO ANY OTHER DAM DEMOLITION OPERATIONS. DAM REMOVAL MAY ONLY PROGRESS FOLLOWING CONFIRMATION, PROVIDED TO THE ENGINEER BY THE CONTRACTOR, THAT A COMPLETE CUT THROUGH THE ENTIRE STRUCTURE HAS BEEN MADE AT THE LOCATION INDICATED HEREIN.

DRAWING CREDITS

DRAWN ON:	01/28/2022
DRAWN BY:	MLS
CHECKED ON:	02/04/2022
CHECKED BY:	GMB
PROJECT NO:	20211186

REVISIONS

#	DATE	DRWN	CHK'D	APP'D	DESCRIPTION

DRAWING SCALE

STONE ENVIRONMENTAL
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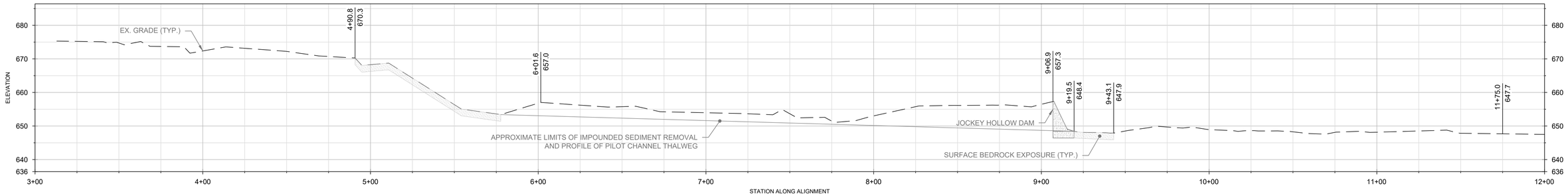
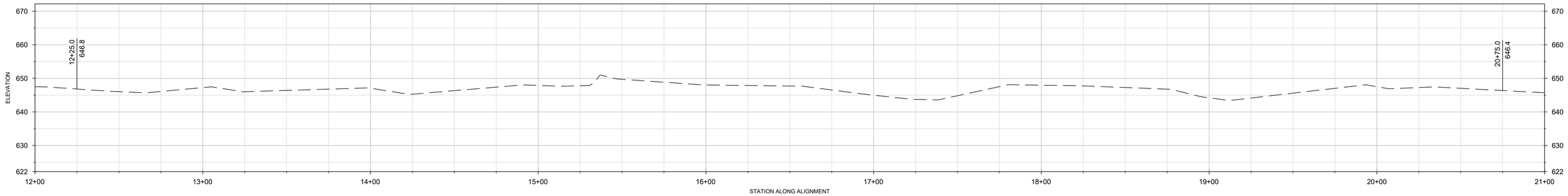
BARRE DAMS - REMOVAL FEASIBILITY AND PRELIMINARY DESIGN
BS - PROPOSED PROFILE, SECTION, & DETAILS
BARRE VERMONT

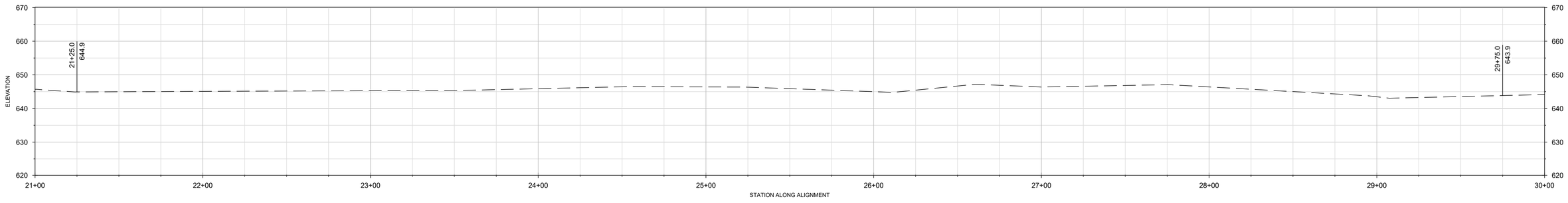
SHEET NO. 9



STEVENS BRANCH
Horizontal Scale: 1"=30'
Vertical Scale: 1"=15'



STEVENS BRANCH
Horizontal Scale: 1"=30'
Vertical Scale: 1"=15'



STEVENS BRANCH
Horizontal Scale: 1"=30'
Vertical Scale: 1"=15'

DRAWING CREDITS

DRAWN ON: 12/6/2022
DRAWN BY: MLS/CRT
CHECKED ON: 02/04/2022
CHECKED BY: GMB
PROJECT NO: 20211186

REVISIONS

#	DATE	DRWN	CHK'D	APP'D	DESCRIPTION

DRAWING SCALE

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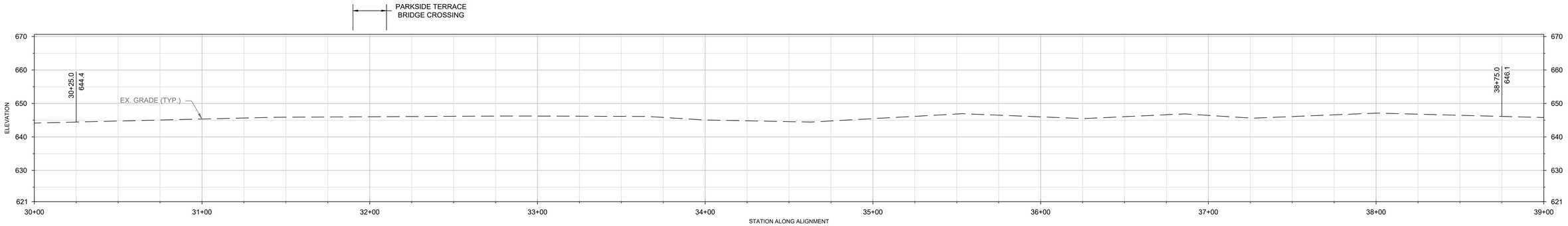
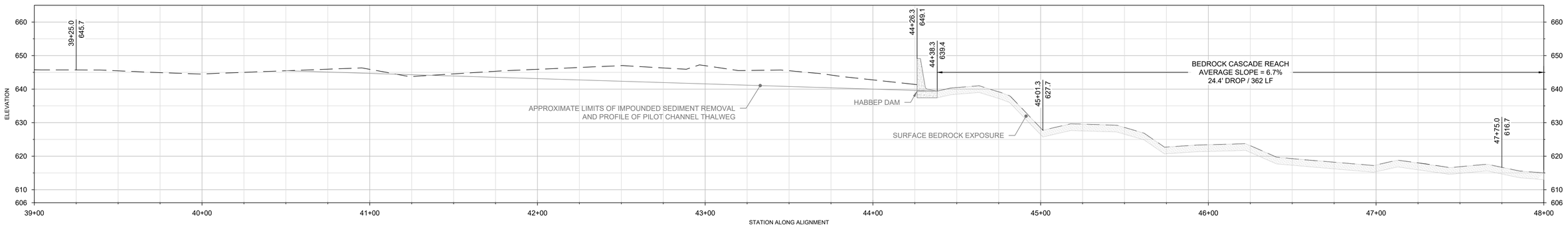
BARRE DAMS - REMOVAL FEASIBILITY AND PRELIMINARY DESIGN
JH - STREAM LONG PROFILE
BARRE VERMONT

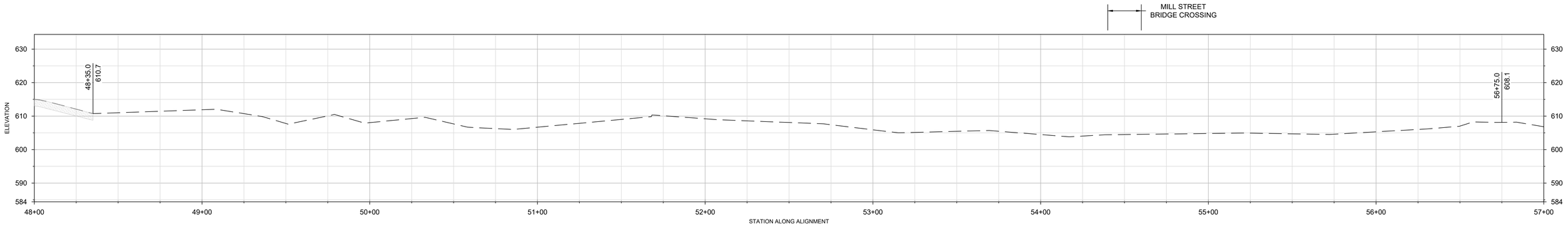
SHEET NO. 10



STEVENS BRANCH
Horizontal Scale: 1"=30'
Vertical Scale: 1"=15'



STEVENS BRANCH
Horizontal Scale: 1"=30'
Vertical Scale: 1"=15'



STEVENS BRANCH
Horizontal Scale: 1"=30'
Vertical Scale: 1"=15'

DRAWING CREDITS

DRAWN ON:	12/6/2022
DRAWN BY:	MLS/CRT
CHECKED ON:	02/04/2022
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PROJECT NO:	20211186

REVISIONS

#	DATE	DRWN	CHK'D	APP'D	DESCRIPTION

DRAWING SCALE

STONE ENVIRONMENTAL
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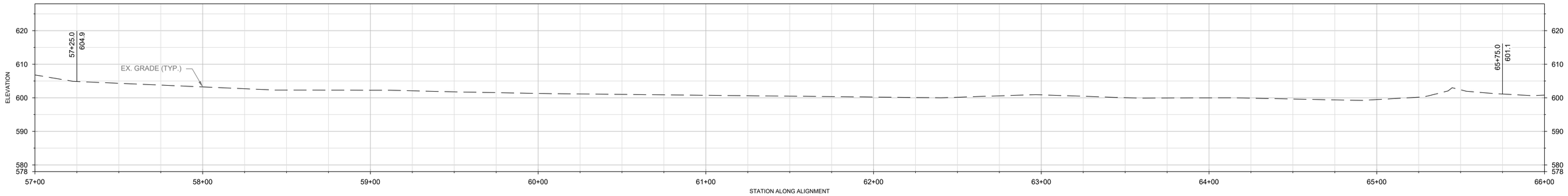
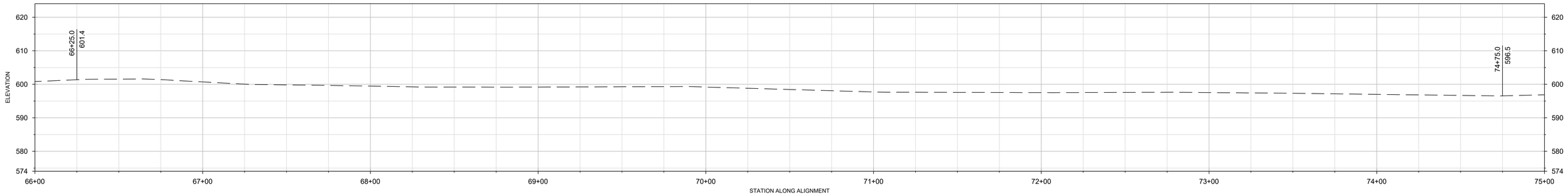
BARRE DAMS - REMOVAL FEASIBILITY AND PRELIMINARY DESIGN
HBP - STREAM LONG PROFILE
BARRE VERMONT

SHEET NO. 11



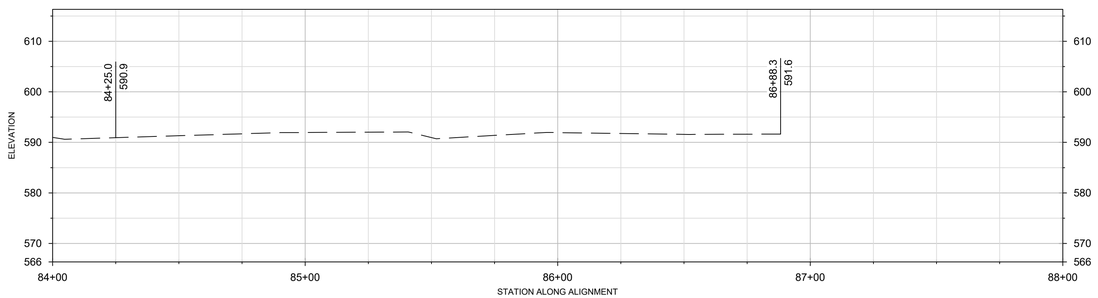
STEVENS BRANCH
Horizontal Scale: 1"=30'
Vertical Scale: 1"=15'

CONFLUENCE WITH JAIL BRANCH



STEVENS BRANCH
Horizontal Scale: 1"=30'
Vertical Scale: 1"=15'

STEVENS BRANCH
Horizontal Scale: 1"=30'
Vertical Scale: 1"=15'



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REVISIONS

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DRAWING SCALE

STONE ENVIRONMENTAL
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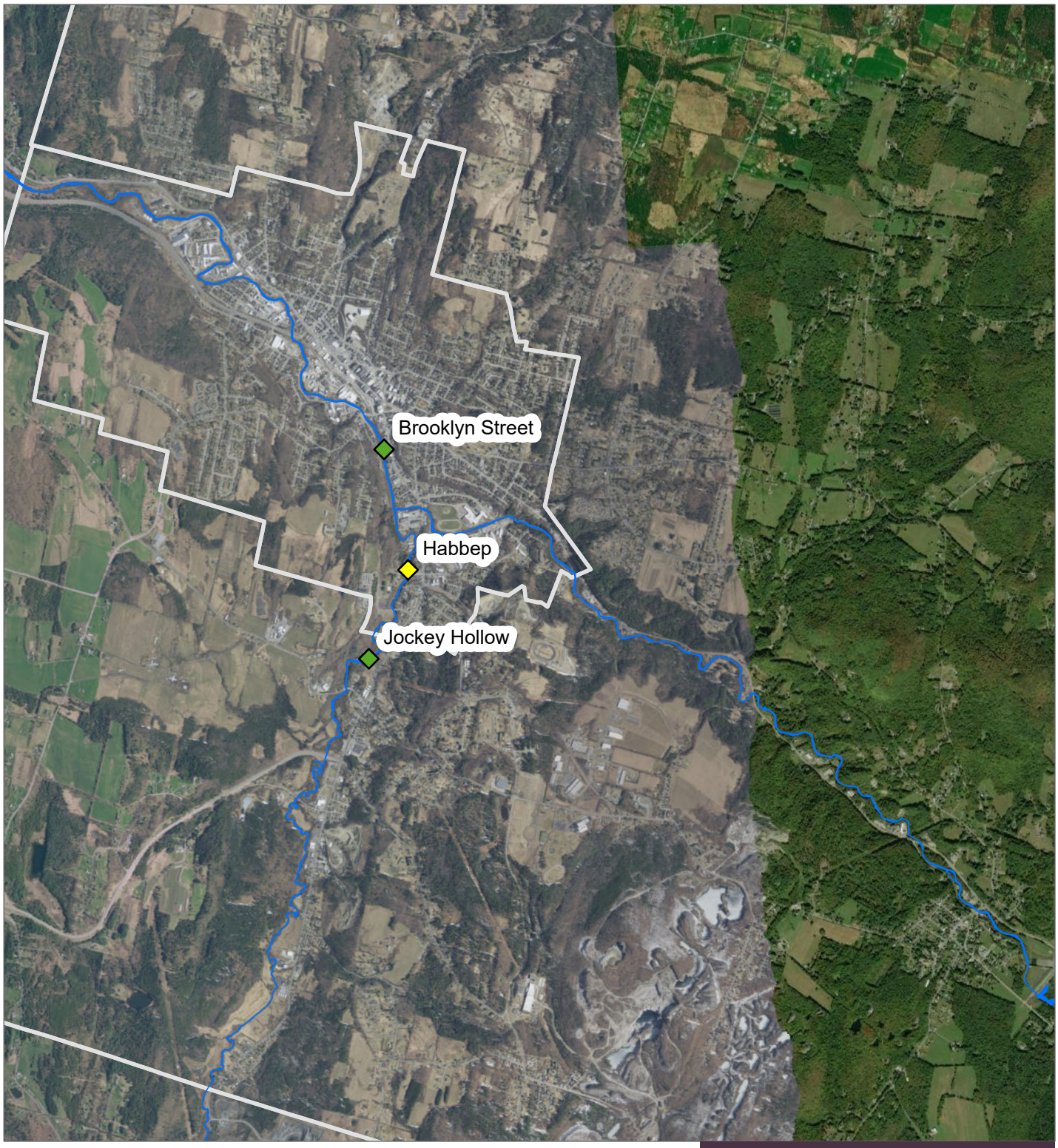
BARRE DAMS - REMOVAL FEASIBILITY AND PRELIMINARY DESIGN
BS - STREAM LONG PROFILE
BARRE VERMONT

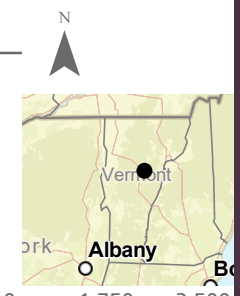
SHEET NO. 12



LEGEND

- High Hazard Potential
- Significant Hazard Potential
- Low Hazard Potential
- Minimal Hazard Potential

Source: Esri World Imagery, VT Agency of Natural Resources



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LayoutExported: 8/25/2022 3:58 PM by ahuizenga

Dam Removal Feasibility Study & Preliminary Design

Dams on the Stevens Branch of the Winooski River, Barre, Vermont

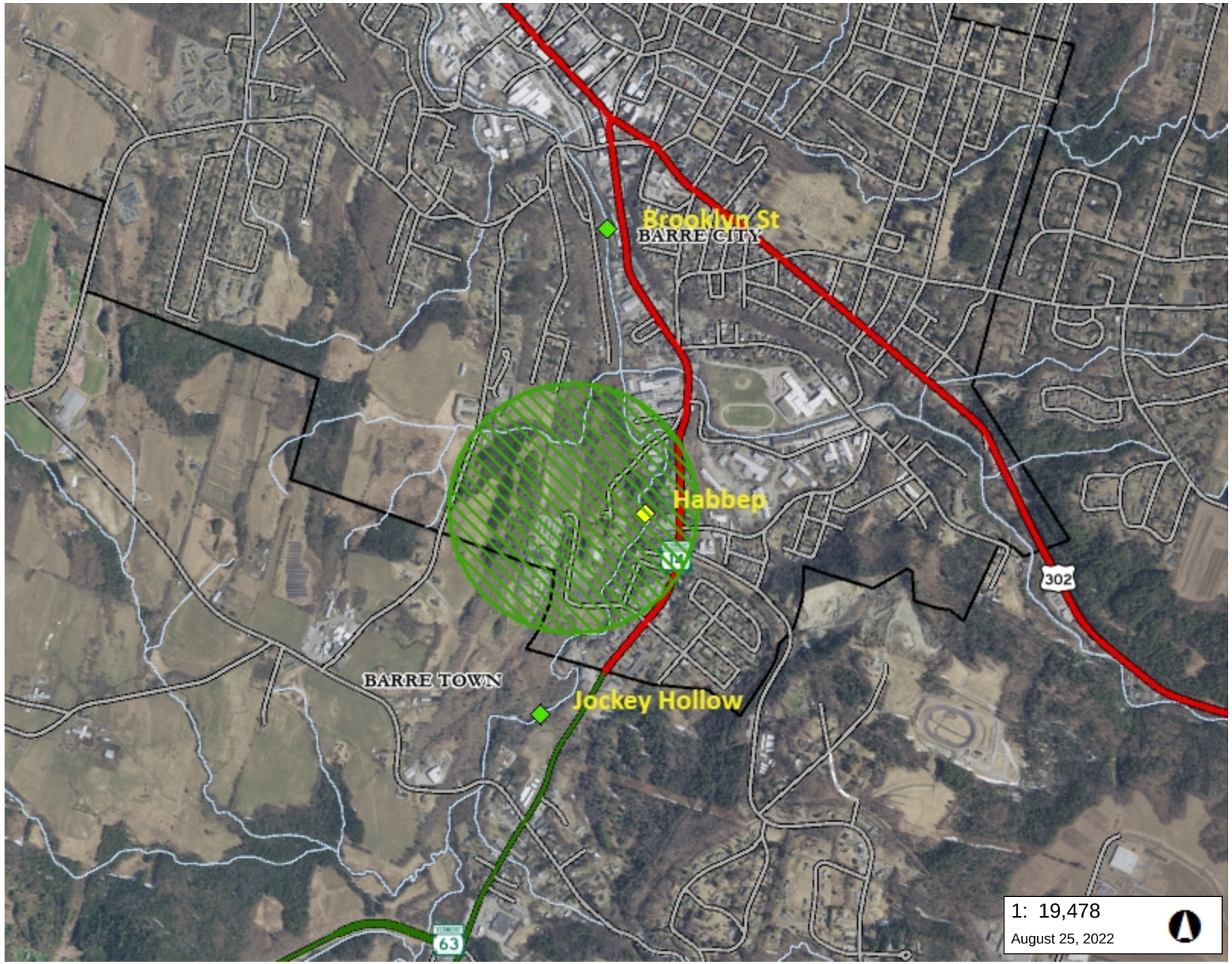
Friends of the Winooski River

STONE ENVIRONMENTAL

Stevens Branch dams

Vermont Agency of Natural Resources

vermont.gov



LEGEND

Rare Threatened Endangered
- Threatened or Endangered
- Rare

Hazard Class
- High Hazard Potential
- Significant Hazard Potential
- Low Hazard Potential
- Minimal Hazard Potential
- Undetermined Hazard Potential

Historical Dam Location

Roads
- Interstate
- US Highway; 1
- State Highway
- Town Highway (Class 1)
- Town Highway (Class 2,3)
- Town Highway (Class 4)
- State Forest Trail
- National Forest Trail
- Legal Trail
- Private Road/Driveway
- Proposed Roads

Stream/River
- Stream
- Intermittent Stream

Town Boundary

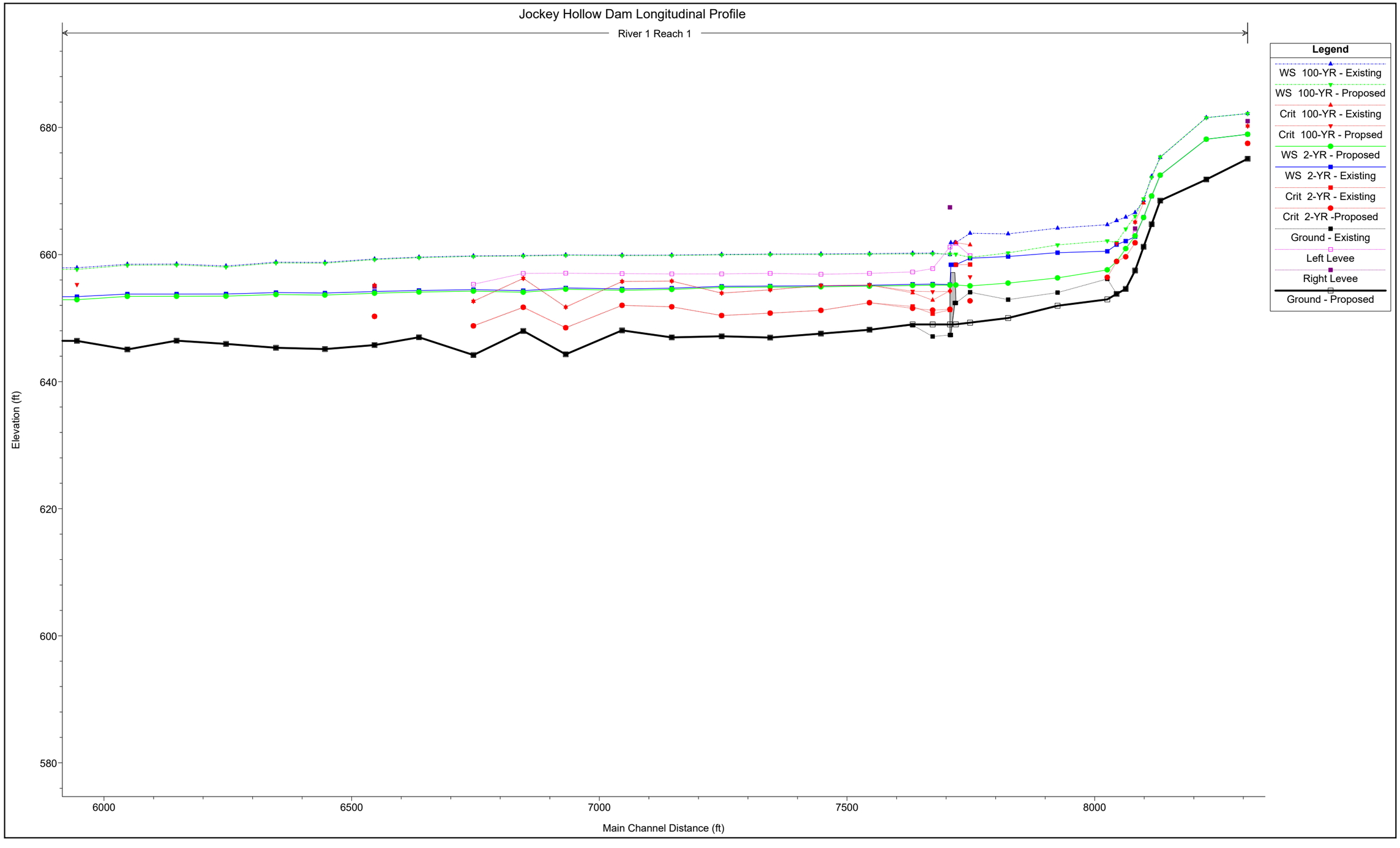
NOTES

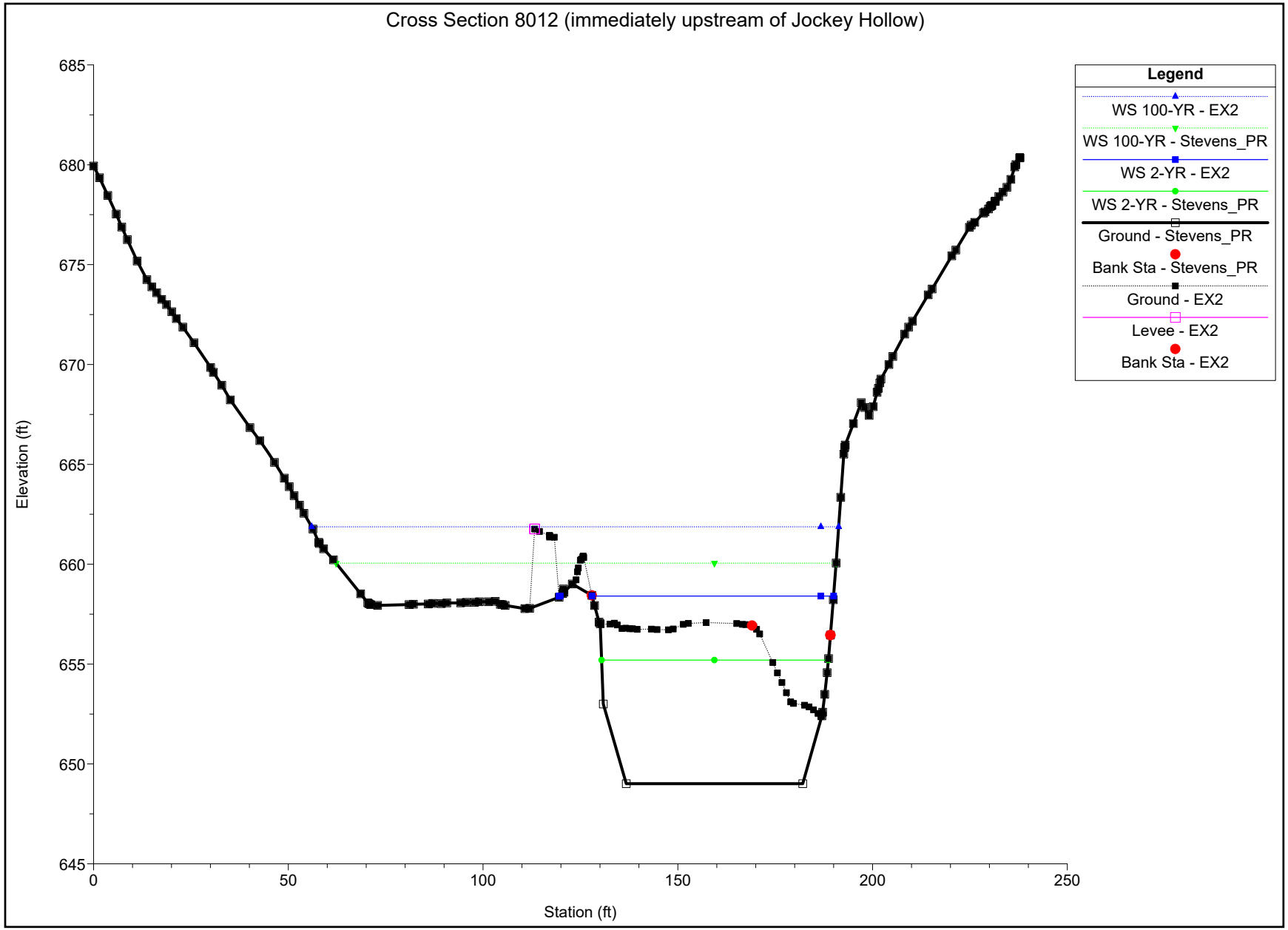
Rare, Threatened, and Endangered Species

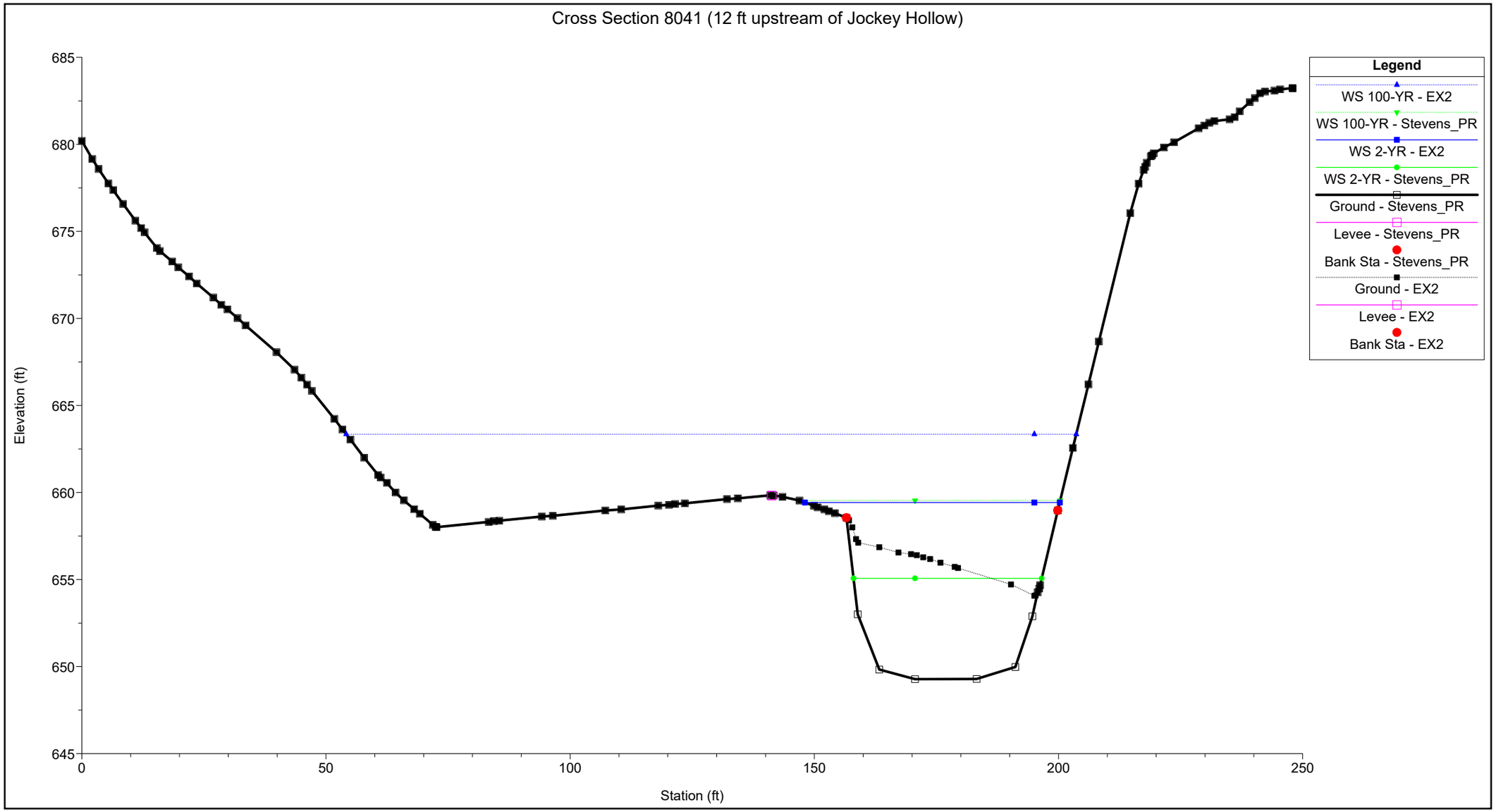
990.0 0 495.00 990.0 Meters

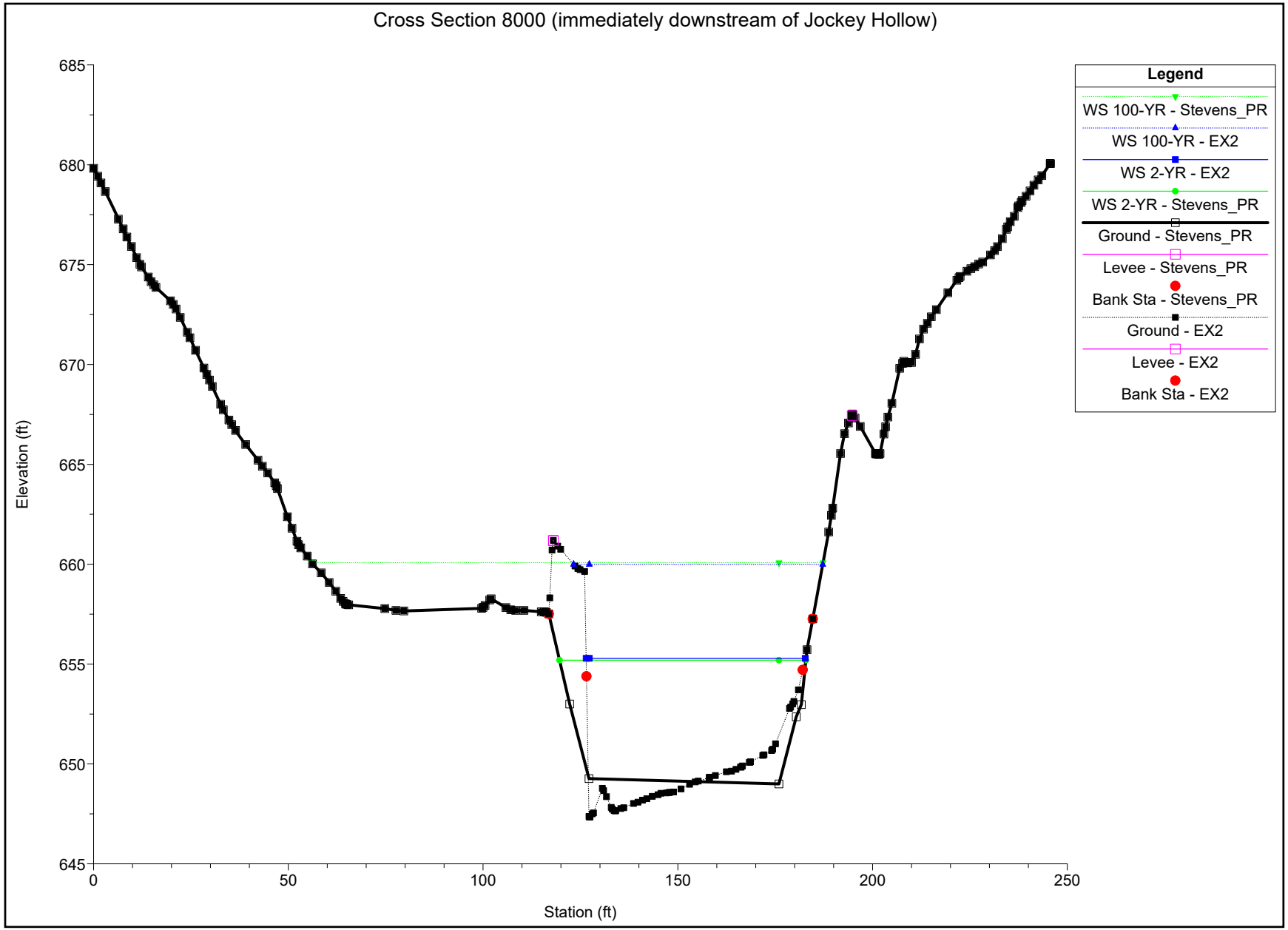
WGS_1984_Web_Mercator_Auxiliary_Sphere 1" = 1623 Ft. 1cm = 195 Meters

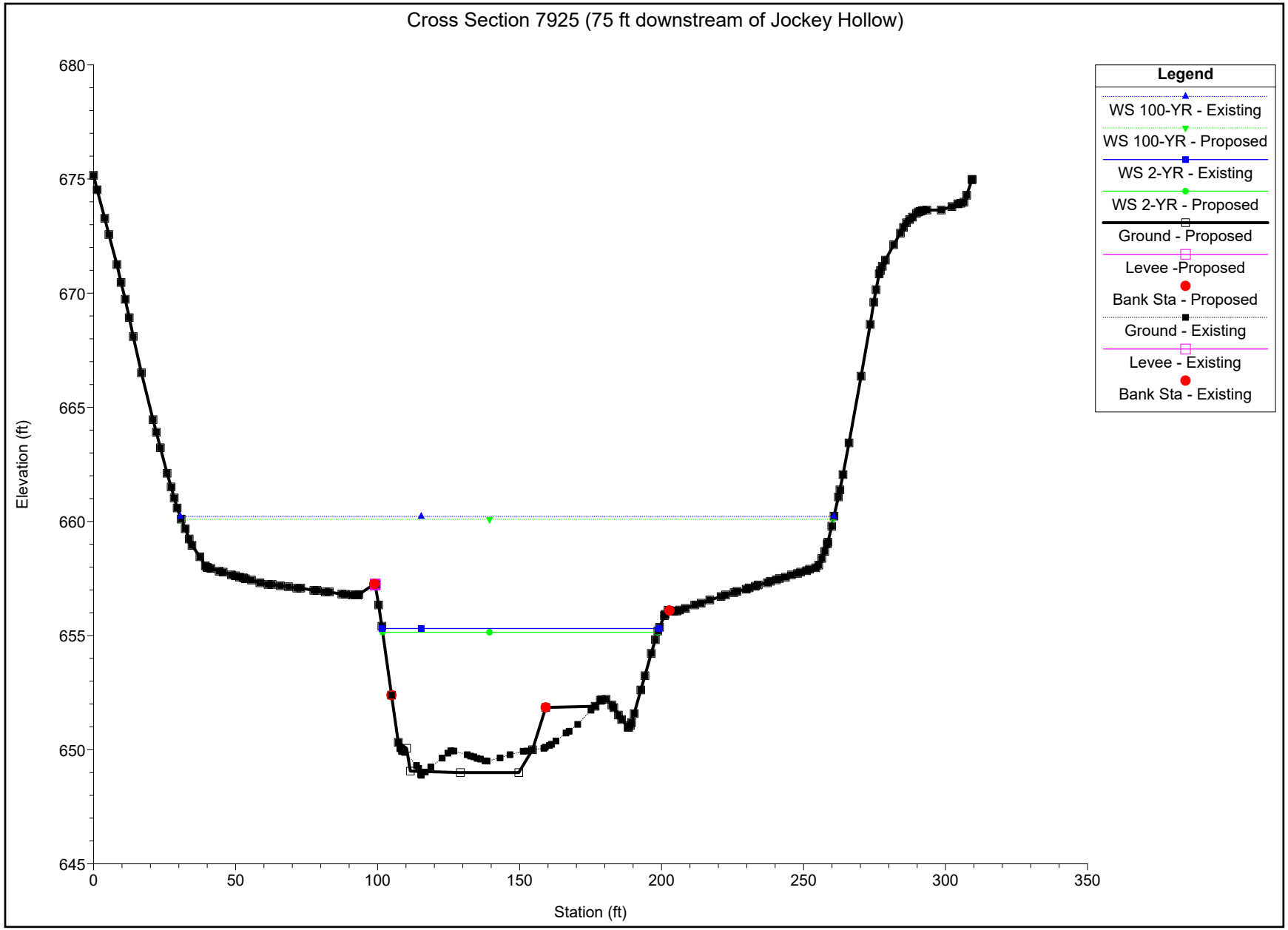
THIS MAP IS NOT TO BE USED FOR NAVIGATION


Jockey Hollow Dam Longitudinal Profile
River 1 Reach 1
Legend
WS 100-YR - Existing
WS 100-YR - Proposed
Crit 100-YR - Existing
Crit 100-YR - Propsed
WS 2-YR - Proposed
WS 2-YR - Existing
Crit 2-YR - Existing
Crit 2-YR -Proposed
Ground - Existing
Left Levee
Right Levee
Ground - Proposed
Elevation (ft)
680
660
640
620
600
580
6000
6500
7000
7500
8000
Main Channel Distance (ft)


Cross Section 8012 (immediately upstream of Jockey Hollow)
Legend
WS 100-YR - EX2
WS 100-YR - Stevens_PR
WS 2-YR - EX2
WS 2-YR - Stevens_PR
Ground - Stevens_PR
Bank Sta - Stevens_PR
Ground - EX2
Levee - EX2
Bank Sta - EX2
Elevation (ft)
685
680
675
670
665
660
655
650
645
0
50
100
150
200
250
Station (ft)

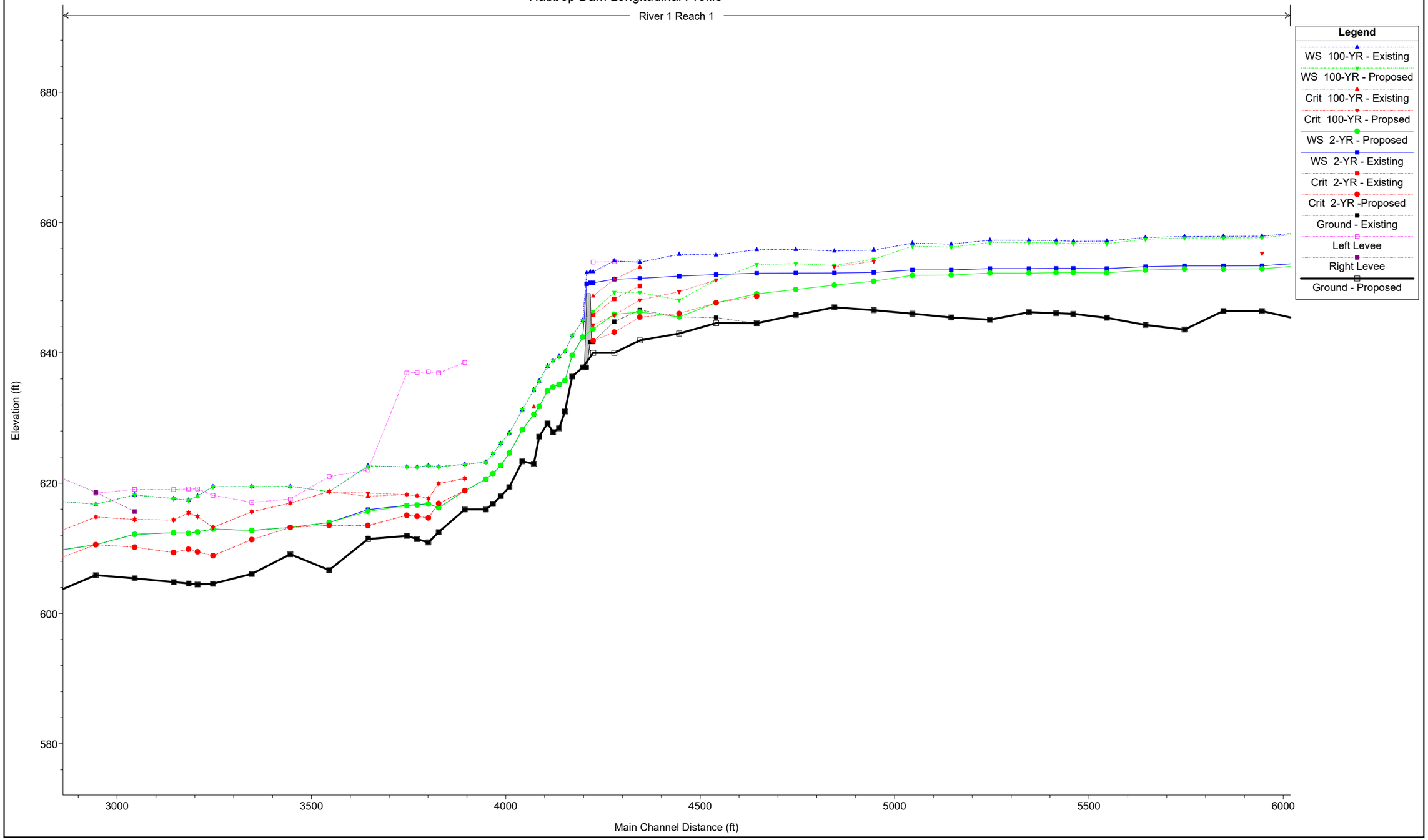

Cross Section 8041 (12 ft upstream of Jockey Hollow)
Legend
WS 100-YR - EX2
WS 100-YR - Stevens_PR
WS 2-YR - EX2
WS 2-YR - Stevens_PR
Ground - Stevens_PR
Levee - Stevens_PR
Bank Sta - Stevens_PR
Ground - EX2
Levee - EX2
Bank Sta - EX2
Elevation (ft)
685
680
675
670
665
660
655
650
645
Station (ft)
0
50
100
150
200
250

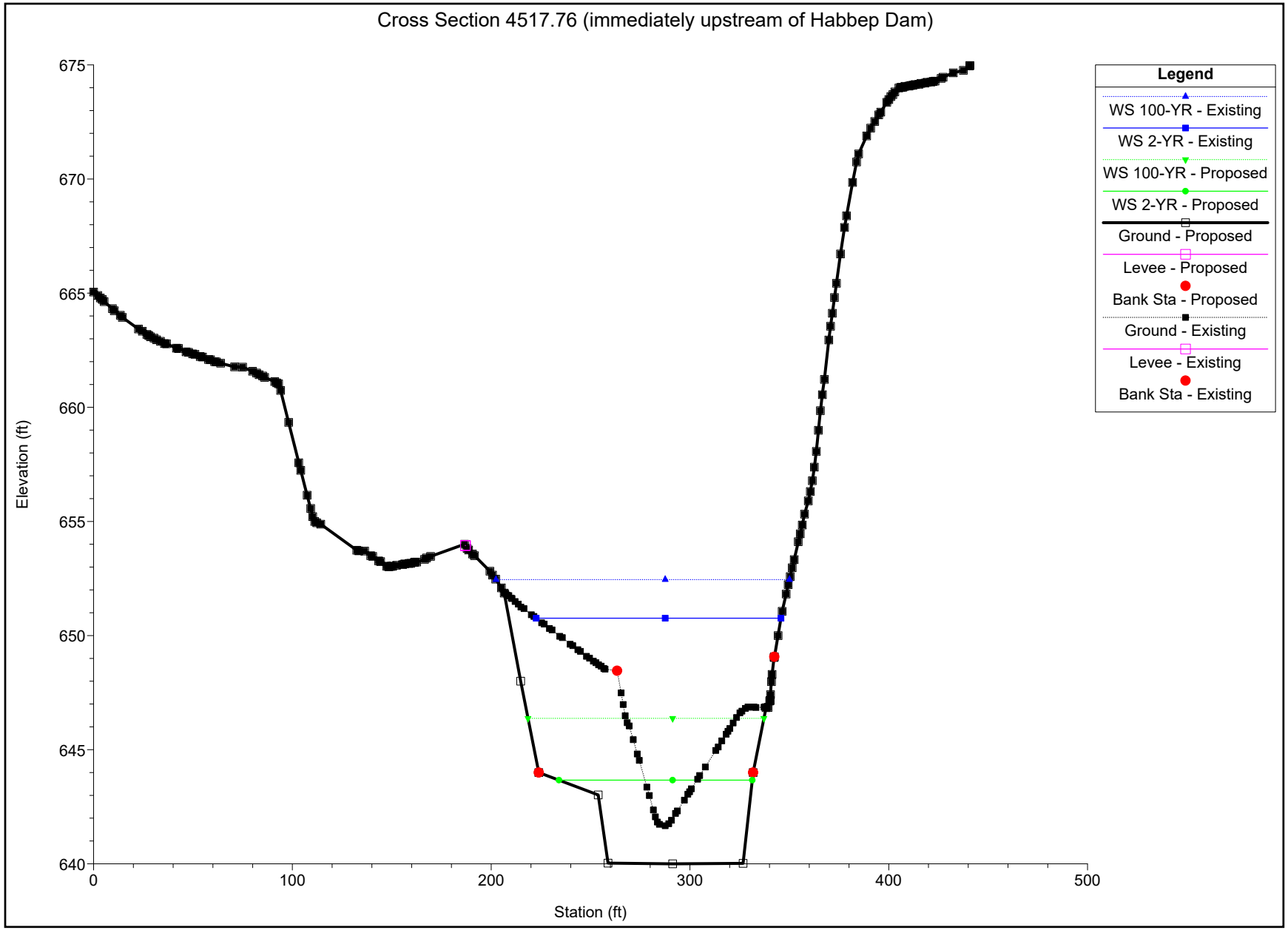

Cross Section 8000 (immediately downstream of Jockey Hollow)
Elevation (ft)
685
680
675
670
665
660
655
650
645
0
50
100
150
200
250
Station (ft)
Legend
WS 100-YR - Stevens_PR
WS 100-YR - EX2
WS 2-YR - EX2
WS 2-YR - Stevens_PR
Ground - Stevens_PR
Levee - Stevens_PR
Bank Sta - Stevens_PR
Ground - EX2
Levee - EX2
Bank Sta - EX2

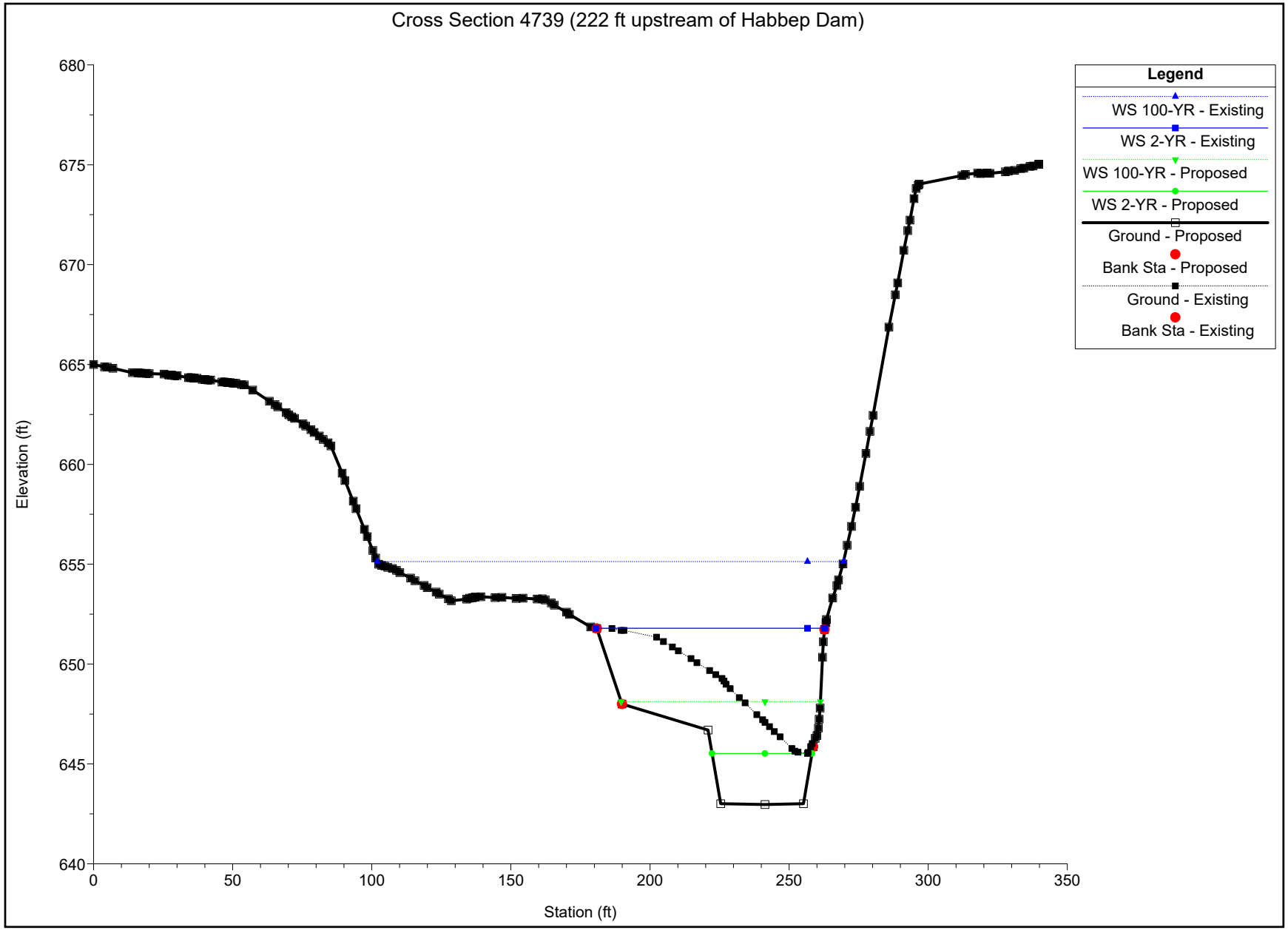

Cross Section 7925 (75 ft downstream of Jockey Hollow)
Elevation (ft)
680
675
670
665
660
655
650
645
0
50
100
150
200
250
300
350
Station (ft)
Legend
WS 100-YR - Existing
WS 100-YR - Proposed
WS 2-YR - Existing
WS 2-YR - Proposed
Ground - Proposed
Levee -Proposed
Bank Sta - Proposed
Ground - Existing
Levee - Existing
Bank Sta - Existing

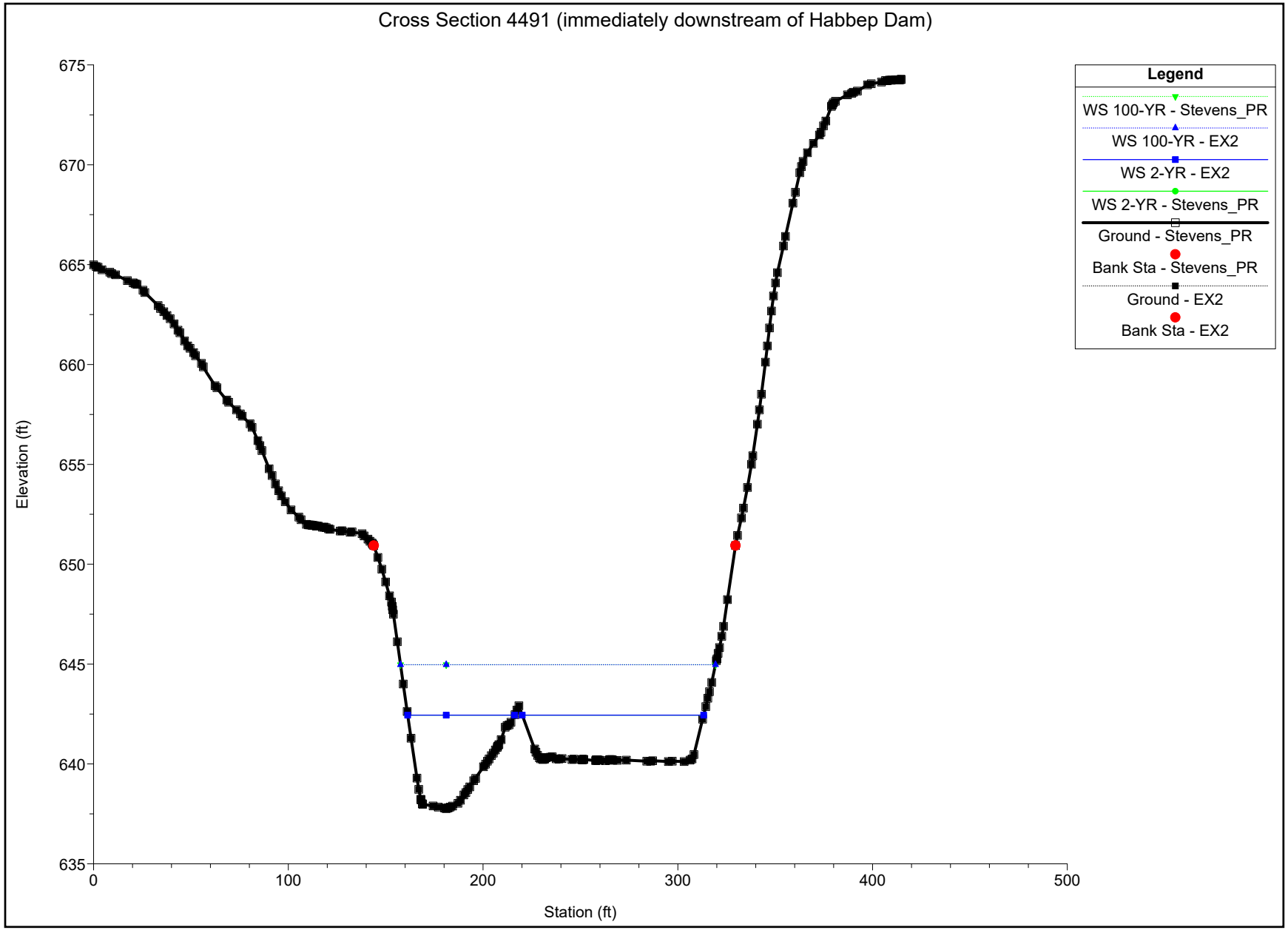
Habbep Dam Longitudinal Profile

River 1 Reach 1




Cross Section 4517.76 (immediately upstream of Habbep Dam)
Elevation (ft)
675
670
665
660
655
650
645
640
0
100
200
300
400
500
Station (ft)
Legend
WS 100-YR - Existing
WS 2-YR - Existing
WS 100-YR - Proposed
WS 2-YR - Proposed
Ground - Proposed
Levee - Proposed
Bank Sta - Proposed
Ground - Existing
Levee - Existing
Bank Sta - Existing


Cross Section 4739 (222 ft upstream of Habbep Dam)
Legend
WS 100-YR - Existing
WS 2-YR - Existing
WS 100-YR - Proposed
WS 2-YR - Proposed
Ground - Proposed
Bank Sta - Proposed
Ground - Existing
Bank Sta - Existing
Elevation (ft)
680
675
670
665
660
655
650
645
640
0
50
100
150
200
250
300
350
Station (ft)


Cross Section 4491 (immediately downstream of Habbep Dam)
Legend
WS 100-YR - Stevens_PR
WS 100-YR - EX2
WS 2-YR - EX2
WS 2-YR - Stevens_PR
Ground - Stevens_PR
Bank Sta - Stevens_PR
Ground - EX2
Bank Sta - EX2
Elevation (ft)
675
670
665
660
655
650
645
640
635
0
100
200
300
400
500
Station (ft)

Brooklyn Street Longitudinal Profile

River 1 Reach 1

Legend

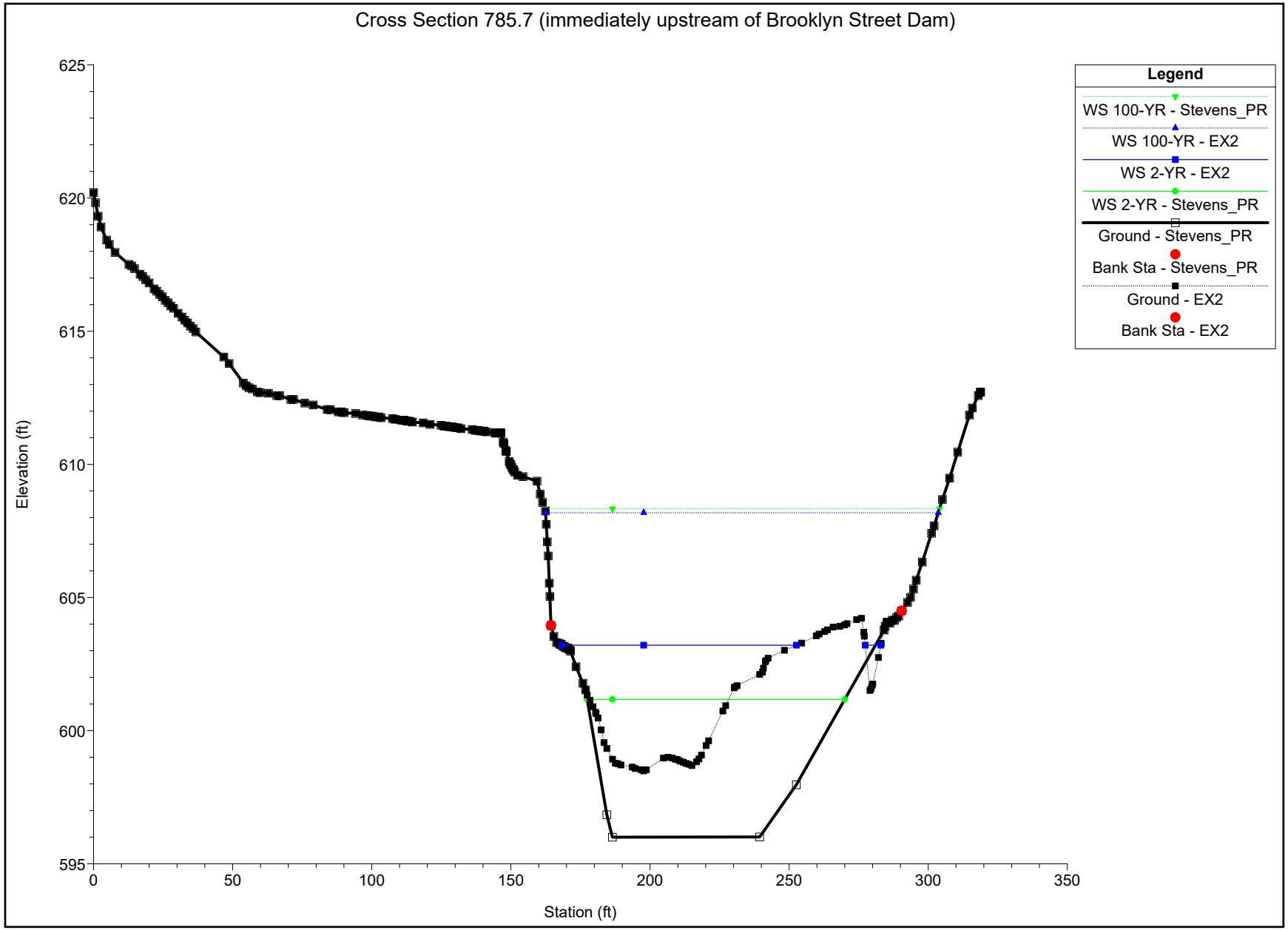
- WS 100-YR - Existing
- WS 100-YR - Proposed
- Crit 100-YR - Existing
- Crit 100-YR - Propsed
- WS 2-YR - Proposed
- WS 2-YR - Existing
- Crit 2-YR - Existing
- Crit 2-YR -Proposed
- Ground - Existing
- Left Levee
- Right Levee
- Ground - Proposed

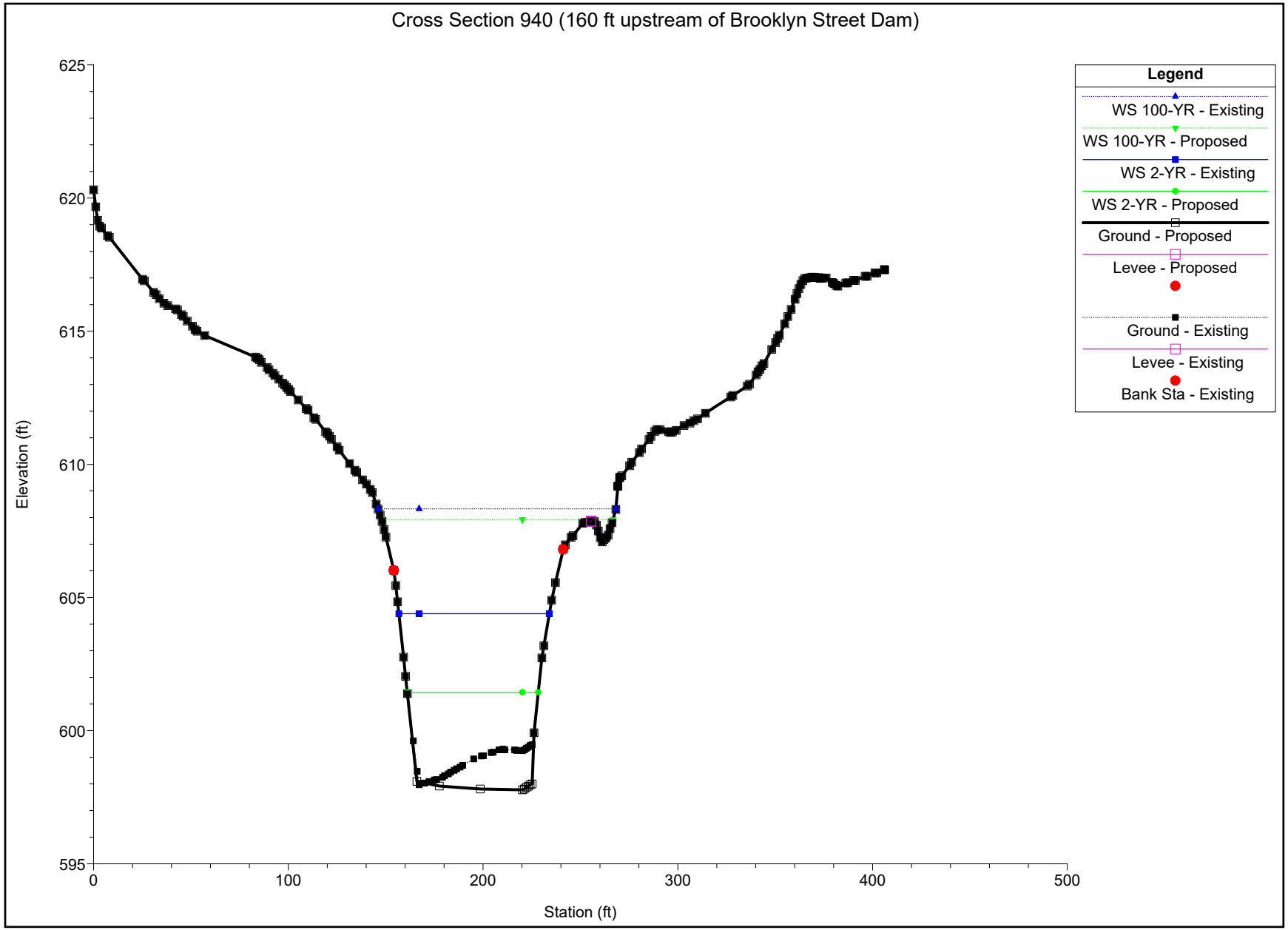
Elevation (ft)

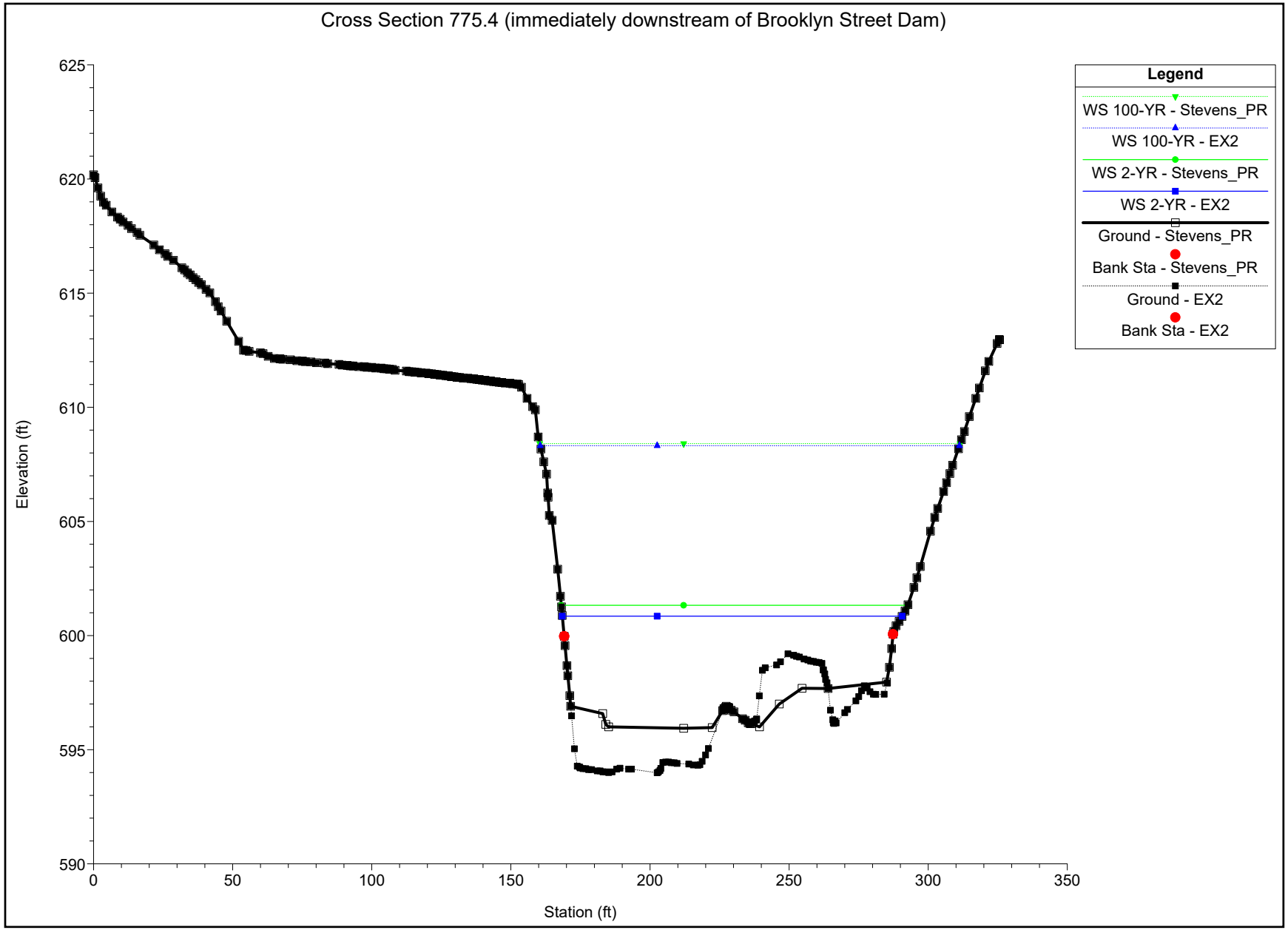
630
620
610
600
590
580
570

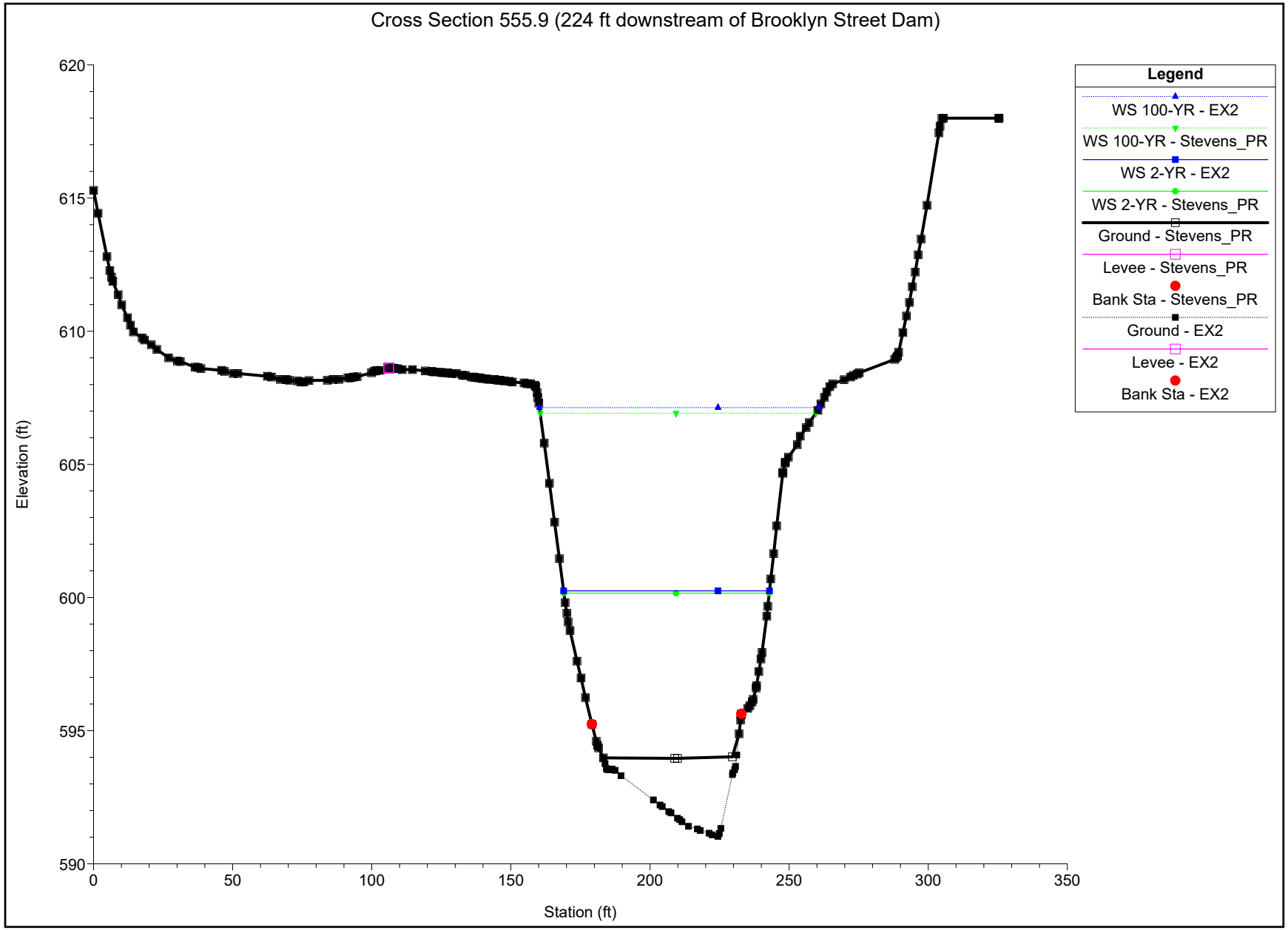
0
500
1000
1500
2000
2500
3000

Main Channel Distance (ft)


Cross Section 785.7 (immediately upstream of Brooklyn Street Dam)
Legend
WS 100-YR - Stevens_PR
WS 100-YR - EX2
WS 2-YR - EX2
WS 2-YR - Stevens_PR
Ground - Stevens_PR
Bank Sta - Stevens_PR
Ground - EX2
Bank Sta - EX2
Elevation (ft)
625
620
615
610
605
600
595
0
50
100
150
200
250
300
350
Station (ft)


Cross Section 940 (160 ft upstream of Brooklyn Street Dam)
Legend
WS 100-YR - Existing
WS 100-YR - Proposed
WS 2-YR - Existing
WS 2-YR - Proposed
Ground - Proposed
Levee - Proposed
Ground - Existing
Levee - Existing
Bank Sta - Existing
Elevation (ft)
625
620
615
610
605
600
595
0
100
200
300
400
500
Station (ft)


Cross Section 775.4 (immediately downstream of Brooklyn Street Dam)
Legend
WS 100-YR - Stevens_PR
WS 100-YR - EX2
WS 2-YR - Stevens_PR
WS 2-YR - EX2
Ground - Stevens_PR
Bank Sta - Stevens_PR
Ground - EX2
Bank Sta - EX2
Elevation (ft)
625
620
615
610
605
600
595
590
0
50
100
150
200
250
300
350
Station (ft)


Cross Section 555.9 (224 ft downstream of Brooklyn Street Dam)
Elevation (ft)
620
615
610
605
600
595
590
0
50
100
150
200
250
300
350
Station (ft)
Legend
WS 100-YR - EX2
WS 100-YR - Stevens_PR
WS 2-YR - EX2
WS 2-YR - Stevens_PR
Ground - Stevens_PR
Levee - Stevens_PR
Bank Sta - Stevens_PR
Ground - EX2
Levee - EX2
Bank Sta - EX2

Jockey Hollow Dam Removal
Alternative 3 – 30% Design OPC
Stone Environmental, 2/2/2023

ITEM #	ITEM	AMOUNT	UNIT	UNIT COST	TOTAL
General					
1	SURVEY LAYOUT	1	LS	$5,000.00	$5,000.00
2	CONSTRUCT ACCESS AND CLEARING	1	LS	$30,000.00	$30,000.00
3	EPSC MEASURES	1	LS	$12,000.00	$12,000.00
4	FLOW BYPASS AND/OR COFFERDAMS	1	LS	$20,000.00	$20,000.00
Dam Removal					
5	DEMO DAM AND HAUL OUT STONE	104	CY	$250.00	$25,972.22
Channel Restoration					
7	COMMON EXCAVATION (CHANNEL AND FLOODPLAIN BENCHES)	1618	CY	$12.00	$19,416.00
8	SEDIMENT HAUL	1618	CY	$12.00	$19,416.00
9	BANK STABILIZATIONS (BOTH SIDES)	1	LS	$40,000.00	$40,000.00
10	SEED, STRAW, PLANTINGS, FASCINES, ETC.	1	LS	$5,000.00	$5,000.00
				CONSTRUCTION TOTAL	***$176,804***
				MOBILIZATION / DEMOBILIZATION (5%)	***$8,840***
				CONTINGENCY (20%)	***$35,361***
				TOTAL (ROUNDED TO NEAREST $100)	***$221,100***

Habbep Dam Removal
Alternative 3 – 30% Design OPC
Stone Environmental, 2/2/2023

ITEM #	ITEM	AMOUNT	UNIT	UNIT COST	TOTAL
General					
1	SURVEY LAYOUT	1	LS	$5,000.00	$5,000.00
2	CONSTRUCT ACCESS AND CLEARING	1	LS	$30,000.00	$30,000.00
3	EPSC MEASURES	1	LS	$12,000.00	$12,000.00
4	FLOW BYPASS AND/OR COFFERDAMS	1	LS	$20,000.00	$20,000.00
Dam Removal					
5	DEMO DAM AND HAUL OUT STONE	151	CY	$250.00	$37,777.78
6	SAWCUT DAM ALONG RIVER RIGHT	1	LS	$10,000.00	$10,000.00
Channel Restoration					
7	COMMON EXCAVATION (CHANNEL AND FLOODPLAIN BENCHES)	2942	CY	$12.00	$35,304.00
8	SEDIMENT HAUL	2942	CY	$12.00	$35,304.00
9	SEED, STRAW, PLANTINGS, FASCINES, ETC.	1	LS	$5,000.00	$5,000.00
				CONSTRUCTION TOTAL	***$190,386***
				MOBILIZATION / DEMOBILIZATION (5%)	***$9,519***
				CONTINGENCY (20%)	***$38,077***
				TOTAL (ROUNDED TO NEAREST $100)	***$238,000***

Brooklyn Street Dam Removal
Alternative 3 – 30% Design OPC
Stone Environmental, 2/2/2023

ITEM #	ITEM	AMOUNT	UNIT	UNIT COST	TOTAL
General					
1	SURVEY LAYOUT	1	LS	$5,000.00	$5,000.00
2	CONSTRUCT ACCESS AND CLEARING	1	LS	$20,000.00	$20,000.00
3	EPSC MEASURES	1	LS	$12,000.00	$12,000.00
4	FLOW BYPASS AND/OR COFFERDAMS	1	LS	$20,000.00	$20,000.00
Dam Removal					
5	DEMO DAM AND HAUL OUT STONE	63	CY	$250.00	$15,833.33
6	SAWCUT DAM ALONG RIVER RIGHT	1	LS	$10,000.00	$10,000.00
Channel Restoration					
7	COMMON EXCAVATION (CHANNEL)	810	CY	$12.00	$9,720.00
8	SEDIMENT HAUL (ALL MATERIAL IN ITEM 7 PLACED TO FILL DOWNSTREAM OF DAM)	0	CY	$12.00	$0.00
9	BANK STABILIZATIONS (RIVER LEFT)	1	LS	$25,000.00	$25,000.00
10	CREATE FLOODPLAIN (RIVER RIGHT; IMPORT OF FILL & GRADING)	1	LS	$25,000.00	$25,000.00
11	SEED, STRAW, PLANTINGS, FASCINES, ETC.	1	LS	$5,000.00	$5,000.00
				CONSTRUCTION TOTAL	***$147,553***
				MOBILIZATION / DEMOBILIZATION (5%)	***$7,378***
				CONTINGENCY (20%)	***$29,511***
				TOTAL (ROUNDED TO NEAREST $100)	***$184,500***

City of Barre, Vermont

"Granite Center of the World"

ACTION ITEM BRIEFING MEMO
CITY COUNCIL AGENDA: 11/7/2023

Agenda Item No. 8-D

AGENDA ITEM DESCRIPTION: 2nd Reading and Public Hearing Warned 6:30PM: Accessory Dwelling Unit (ADU) Zoning Revision

SUBMITTING DEPARTMENT/PERSON: Janet Shatney, Director of Planning, Permitting & Assessing Services, on behalf of the Planning Commission

STAFF RECCOMENDATION: Approve changes recommended by the Planning Commission

BACKGROUND:

The recommended changes to ADU zoning track suggestions from the Agency of Commerce & Community Development in the past. The Planning Commission has worked on these edits and approved them unanimously. These changes will make it easier to create housing via ADUs on private property.

These amendments were previously approved by the Council in a first reading and public hearing on September 19, 2023.

EXPENDITURE AND FUNDING SOURCE: N/A

LEGAL AUTHORITY/REQUIREMENTS: 24 VSA Chapter 117

ATTACHMENT: Proposed revisions

RECOMMENDED ACTION/MOTION:

Move to approve the proposed revisions to the Unified Development Ordinance regarding Accessory Dwelling Units.

(1) Non-residential space will not be located above residential space;

(2) Walls and/or floors that separate residential and non-residential portions of the building will be sound-proofed;

(3) Private entrance(s) to the dwelling units will be separated from the public and service entrance(s) to the non-residential portions of the building;

(4) Impact of service and waste collection areas (noise, light, odors, etc.) on building residents will be minimized; and

(5) Common open space, as required above, will be separated and screened from areas of the property accessible to the general public and from service areas.

3202 Accessory Dwelling

3202.A An accessory dwelling unit (ADU) must:

(1) Be located within or ~~associated with an owner-occupied, single-family dwelling;~~ **appurtenant to a single-family dwelling on an owner-occupied lot**;

(2) Be clearly subordinate to the primary dwelling;

~~(3) Share a driveway with the primary dwelling;~~

(43) Have provisions for independent living, including sleeping, food preparation and sanitation in accordance with Section 3012;

(~~5~~4) Not exceed 900 square feet or 30% of the habitable floor area of the primary dwelling (prior to the creation of the ADU), whichever is greater;

~~(6) Not have more than 2 bedrooms;~~

(~~7~~5) ~~Meet the~~ **Shall be exempt from the** minimum parking requirements for residential uses of Section 3104;

(~~8~~6) Meet the applicable dimensional standards of the zoning district; and

(~~9~~7) Meet the water supply and wastewater disposal standards of Section 3024.

3202.B A lot must not have more than one accessory dwelling unit.

3202.C The landowner must reside on the property, but may live in either the primary or accessory dwelling unit.

3202.D An accessory dwelling unit will be considered an accessory use of residential property and will not require site plan approval.

3202.E An accessory dwelling unit will not be included in the calculation of residential density.