Pursuant to Flood Plain Management Regulations, effective 3/28/98 PROPERTY OWNER/APPLICANT Name: Town of Weston Public Works, Larry Roberts, Director Address: Public Works Garage, 78 Old Hyde Road, Weston, CT 06883 Telephone: 860-222-2662 OWNER REPRESENTATIVE BL Companies, Sean Laudati, Project Manager Address: 100 Constitution Plaza, 10th Floor, Hartford CT 06103 Telephone: 860-249-2200 DEVELOPMENT SITE LOCATION ADDRESS: Michael's Way over West Branch Saugatuck River The following items are required before consideration of the 8/6000 application. FEE:------Check for small made out to the "Town of Weston" a list of owners. PROJECT DESCRIPTION: ---- Short narrative description of the project/plan per regulations. *CERTIFIED DEVELOPMENT MAP: -- Include topes, flood way & 100 year flood plain lines, existing and proposed structures and location of septic tank and leaching fields, per regulations. *CERTIFIED PROFILES: -----Include flood plain, floodway and access & structure elevation profiles, per regulations. *CONSTRUCTION DESIGN DATA: -----Detail on proposed construction per regulations. WATERCOURSE ALTERATION DETAIL: --- When appropriate *CERTIFIED FLOODWAY NO-IMPACT STATEMENT: -- When appropriate COMMISSION APPROVALS: -----When appropriate 280 signature of applicant A preliminary discussion with the Commission is recommended for regulation clarification, guidance and possible requirement waivers.

APPLICATION FOR ACTIVITY IN A FLOOD ZONE:

Date received:----Date of hearing:----Date of decision:----

Flood Zone Development Certification

Property Address :
Record Owner :
Date of Application :
The undersigned hereby acknowledges the right of the Town of Weston Planning and Zoning Commission and its agents to rely upon the statements and representations of the undersigned contained in this Certificate and further acknowledges that any permit issued with respect to the above-referenced application will be issued in material reliance on this Certificate.
Given the foregoing, the undersigned hereby covenants, certifies and represents to the Town of Weston Planning and Zoning Commission and its agents, as follows:
(i) I am a professional engineer registered in the State of Connecticut and am duly qualified to make the statements and representations set forth herein.
(ii) I am familiar with the Floodplain Management Regulations of the Town of Weston, Connecticut adopted June 18, 2010 (the "Regulations").
(iii) I have examined the A-2 Property Survey entitled prepared by bearing a date of last revision of
(iii) I have examined the construction plans entitled prepared by bearing a date of last revision of consisting of sheets through
(iv) I have performed hydrologic and hydraulic analyses of the proposed New Construction, Substantial Improvements, and/or other Development (as such terms are defined in the Regulations) in accordance with standard engineering practice. A true and complete copy of the hydrologic and hydraulic data on which I relied is attached hereto.
(v) the proposed New Construction, Substantial Improvements, and/or other Development conform with the requirements of Section IV(D) of the Town of Weston Floodplain Management Regulations including, and not by way of limitation, as follows:
(a) The proposed New Construction, Substantial Improvements, and/or other Development will not result in any increase in Flood levels or hazards during the occurrence of a 100-year storm.

- (b) The Lowest Floor of any New Construction or Substantial Improvement of any Structure shall be elevated one foot or more above the Base Flood Elevation. The design of all areas elevated less than one foot above the Base Flood Elevation comply with Section IV(B)(4) of the Regulations.
- (c) the proposed New Construction, Substantial Improvements, and/or other Development will not result in any increased (a) danger to life or property due to increased flood heights or velocities; (b) danger that materials may be swept downstream or onto other property; (c) hazard for emergency or ordinary vehicles accessing the property during flooding; or (d) adverse impact any aquifer, water supply or sanitary supply system on the subject or adjoining properties.

	Name: CT Lic. No.:		-
State of Connecticut)) ss:		
County of Fairfield The foregoing instru	ment was acknowledged before me this,	20	by
63			
	Notary Public My commission expires: Commissioner of the Superior Coun	rt	

[Attachment]

ALL ADDITIONS MADE TO THIS CERTIFICATE FORM MUST
BE <u>UNDERLINED</u> AND DELETIONS SHOWN AS A STRIKE OUT (Example).
ANY REVISION WILL REQUIRE ADDITIONAL REVIEW AND MAY
NECESSITATE A PUBLIC HEARING

Effective October 1, 2009

(Grid Revised May 14, 2015 to reflect current Zoning Regulations)

The Weston Planning & Zoning Commission requires submission of an A-2 Property Survey with all applications for subdivision approvals, zoning permits, certificates of zoning compliance, flood zone permits, and special permits except as set forth in Section 415 and 416 of the Zoning Regulations (however, pursuant to Section 417, only a *limited* certificate of zoning compliance will be issued if the foregoing exemptions are utilized) Effective October 1, 2009, all surveys of parcels within the R-2A district must contain the following grids:

General Requirements District R-2A

	Section	Required	Actual/	Claimed
			Proposed	Exemptions/Variances
Min. Lot Area	321.4	2 acre		
Min. Rectangle	321.5	170' x 200'		
Min. Lot Frontage	321.5	170'		
Setbacks	321.6	-		
Front	321.6	50'		
Side	321.6	30'		
Rear	321.6	30'		
Farming Structures	321.1	100'		
Max. Bldg. Coverage	321.7	15%		
Max. Bldg. Height	321.8	35'		

Subdivision / Construction

Parcel No.	
Has this lot been the subject of a previous subdivision?	[Y/N]
Does this lot conform with Regulation s.311.7 (Odd Shaped Lots)?	[Y/N]
Can this lot contain a rectangle measuring 170' x 200' (s.321.4)?	[Y/N]

<u>Minimum Lot Area Calculation per s.311.4</u> (required for each lot of subdivision applications)

Parcel No	1
Gross lot area	
Road, right of way, access way	
Above-ground utility easements	
Exclusive-use easements	
Land under water or very poorly	
drained in excess of 20% of total	
Net Lot Area:	

Attachment to Applications to the Weston Conservation Commission, Planning & Zoning Commission and Board of Zoning Appeals

Notification Process for Applicants with Projects in Public Water Supply Watersheds or Aquifer Protection Areas

Effective October 1, 2006, the Commissioner of the Connecticut Department of Public Health (CTDPH) must be notified by applicants before the Town's Conservation Commission, Planning & Zoning Commission, Zoning Board of Appeals for any project located within a public water supply watershed or aquifer protection area. This notification is in addition to the required notification to the water companies. Any forms of past notification to the water companies are not changing with this new CTDPH notification requirement.

The process that an applicant must follow to satisfy the new CTDPH notification requirement is:

- 1. Refer to the map "Weston, CT Public Drinking Water Source Protection Areas" to determine whether your project falls within a public water supply watershed or aquifer protection area. The map is available for viewing at Weston Town Hall in the Planning & Zoning Commission's Office and in the Conservation Planner's Office.
- 2. Go to the CTDPH website at http://www.dph.state.ct.us
- 3. Click on "Programs and Services"
- 4. Click on "D" and then "Drinking Water Section"
- 5. Click on "Source Water Protection" on the right hand side menu
- 6. Click on "Notification Process Under PA0653"
- 7. Click on "Notifying us using our online form"
- 8. Complete the Public Water Supply Watershed or Aquifer Area Project Notification Form and submit the form by clicking on the "Submit Form" button.

The project area is not within a public water supply watershed or aquifer protection area. This has been confirmed with DPH mapping, Aquarion mapping and coordination with Aquarion Water Company.

Project Description

The purpose and need for this project are to address the structural deficiencies of Bridge No. 07001 carrying Michaels Way over West Branch Saugatuck River.

Bridge No. 07001 was constructed in 1995. Bridge No. 07001 consists of a single-span, six rolled steel girder superstructure with a timber deck on pile supported concrete abutments. The existing bridge has an overall structure length of approximately 65 feet. The existing structure has a true clear span of approximately 40 ft measured perpendicular to the flow and a skewed clear span of 59 feet measured along the roadway. The curb-to-curb width over the bridge is 22 feet, composed of two 11-foot travel lanes. There are 4-foot sidewalks located on both sides of the roadway, and there are no shoulders present along the roadway. The bridge is on a 45-degree skew from the roadway.

Bridge No. 07001 is in poor condition (Rating = 4) primarily due to the deteriorated condition of the steel superstructure. The rolled steel girders have moderate to heavy rust throughout, and section loss up to 3/16" deep. The neoprene pad bearing devices exhibit minor deformation and bulging with heavy rust on the anchor bolts and nuts. The existing substructure is in good condition with some vertical hairline cracks with efflorescence along the abutment and wingwalls.

Michael's Way is a two-lane rural local road with no posted speed limit, so the assumed speed limit of the roadway is 25 mph. The Average Daily Traffic (ADT) is approximately 210 vehicles (2022 ADT from the 2022 Routine Inspection Report). Michael's Way has a 22-foot wide curb-to-curb width with no shoulders. The bridge is not located on a horizontal curve.

There are two stormwater drainage outfalls within the bridge site. Approximately 50 feet east of the bridge are two catch basins on either side of the road. The catch basins are connected with 15" CPP and the stormwater drainage outfall is located on the upstream northeast embankment. Approximately 160 feet west of the bridge are two additional catch basins. These catch basins are connected with 15" CPP and the stormwater drainage outfall is located on the downstream southwest embankment.

Multiple utility conduits cross the bridge, including a 2.5" diameter gas conduit and four 5" diameter telecommunications/electric conduits.

The proposed alternative consists of replacing the structure with a single span steel superstructure with an approximately 43-foot clear span measured perpendicular to the flow, and a skewed clear span of 59 feet measured along the roadway. The proposed bridge will be comprised of steel beams, an 8.5-inch concrete deck with membrane waterproofing, and 3-inches of asphalt. The length of the proposed structure will match the existing structure of 44 ft. The vertical alignment will slightly increase from existing, and the horizontal alignment will not be changed. The low chord will be raised to 221.21 ft. The proposed bridge is hydraulically adequate with 4.33 ft of freeboard to the roadway low point and 1.12 ft of underclearance to the low chord during the 100-year design storm.

Initial coordination has been made with the CT DEEP Fisheries Division. Initial recommendations from Fisheries are to provide unrestricted upstream fish passage at this location. It was also recommended that proper erosion and sedimentation control measures be installed and maintained throughout the duration of this project and special care be exercised to not increase the turbidity levels during construction. As a best management practice, it was recommended that any unconfined instream work within the West Branch Saugatuck River be restricted to the period between June 1 to September 30, inclusive.

The proposed structure will be installed in the dry, and flow around the abutments will be diverted with temporary water handling cofferdams. Temporary water handling cofferdams consisting of sandbags, will be utilized along each abutment to elevation 217.55 ft.

The estimated construction duration for the structure replacement is once construction season, approximately 6 months. In accordance with the ConnDOT Drainage Manual (Section 6.15), the 2-year storm frequency will be used for the temporary condition.

During construction, the proposed replacement will be completed in the dry. Temporary water handling devices include cofferdams around each abutment. A minimum 20-foot channel will be maintained.

Replacement of Bridge No. 07001

Michael's Way over West Branch Saugatuck River

Town of Weston

Certified No-Impact Statement

- I hereby certify the proposed replacement of the bridge carrying Michael's Way over West Branch Saugatuck River:
- a) will not cause a rise in flood heights exceeding 0.00 feet in the regulatory floodway as compared to the existing conditions.
- b) will not cause a rise in flood heights exceeding 0.00 feet within the regulatory floodplain as compared to the existing conditions.
- c) will not result in an increase in damaging velocities in either the channel or overbank areas as compared to the existing conditions.

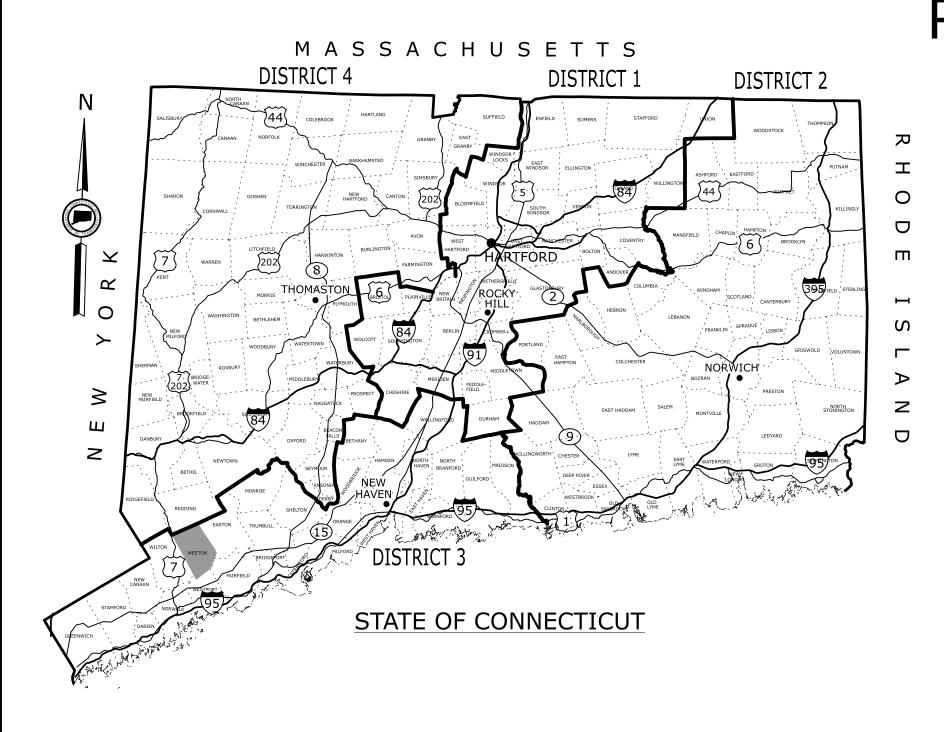
NC 0623439	DESIGNED BY: Companies BL COMPANIES, INC. 355 RESEARCH PARKWAY MERIDEN, CT 06450	
David Cicia, PE	BL Companies	

Company

Name

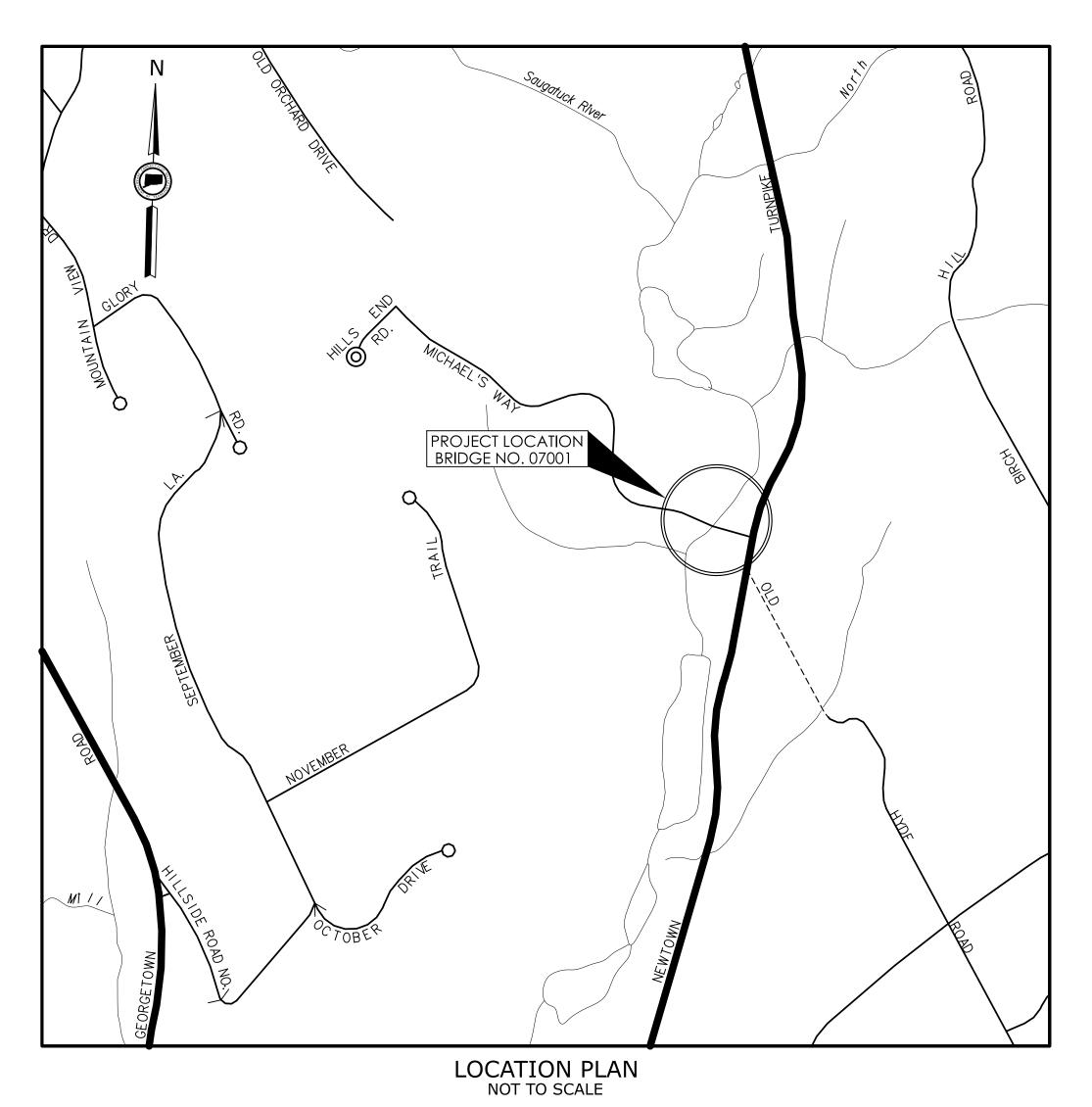
7/21/2023 23439 PE License No. Signature Date

ENVIRONMENTAL PERMIT PLANS STATE PROJECT NO. 0157-0088



REPLACEMENT OF BRIDGE NO. 07001 MICHAEL'S WAY OVER WEST BRANCH SAUGATUCK RIVER

> Town of WESTON, CT

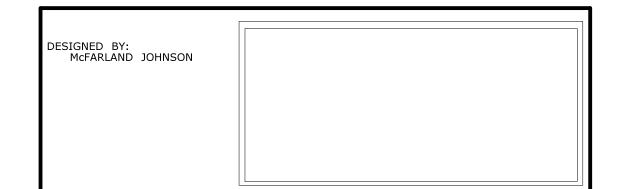


GENERAL NOTES

- 1. THESE PLANS ARE NOT FOR CONSTRUCTION AND ARE INTENDED ONLY FOR ENVIRONMENTAL PERMITTING PURPOSES. THESE PLANS HOLD AUTHORITY FOR ALL ACTIVITIES CONCERNING THE REGULATED AREA. FOR DETAILED PLANIMETRIC INFORMATION AND PAYMENT REFER TO THE APPLICABLE CONTRACT DOCUMENTS.
- 2. FOR A DESCRIPTION OF THE WATERCOURSES, WETLAND AND WETLAND SOILS SEE RELEVANT SECTIONS OF THE PERMIT APPLICATION.
- 3. ALL CONSTRUCTION ACTIVITIES WILL BE CONDUCTED IN ACCORDANCE WITH THE DEPARTMENT'S STANDARD SPECIFICATIONS FOR ROADS, BRIDGES, FACILITIES, AND INCIDENTAL CONSTRUCTION, FORM 818, SECTION 1.10 AND WILL ALSO FOLLOW BEST MANAGEMENT PRACTICES (BMPS) AND SEDIMENT AND EROSION CONTROL MEASURES IN ACCORDANCE WITH THE 2002 ERÓSION & SEDIMENTATION CONTROL GUIDELINES AND THE 2004 STORMWATER QUALITY MANUAL.
- 4. FEDERAL AID PROJECT NO. 6157(006)
- 5. CONSTRUCTION SPECIFICATIONS: CONNECTICUT DEPARTMENT OF TRANSPORTATION, STANDARD SPECIFICATIONS FOR ROADS, BRIDGES, FACILITIES, AND INCIDENTAL CONSTRUCTION, FORM 818, DATED 2020; SUPPLEMENTAL SPECIFICATIONS, DATED JULY 2021; AND SPECIAL PROVISIONS
- 6. 400 FOOT GRID BASED ON CONNECTICUT COORDINATE SYSTEM N.A.D. 1983. VERTICAL DATUM NAVD OF 1988.

LIST OF DRAWINGS

DRAWING NO.	DRAWING TITLE
PMT-01	TITLE SHEET
PMT-02	GENERAL PLAN
PMT-03	ENVIRONMENTAL IMPACTS PLAN - WETLANDS
PMT-04	ENVIRONMENTAL IMPACTS PLAN - FLOODPLAINS
PMT-05	TYPICAL SECTIONS AND ELEVATION
PMT-06	WATER HANDLING PLAN
PMT-07	PERMIT PLANTING PLAN



ENVIRONMENTAL PERMIT PLANS DATED: 7/11/2023

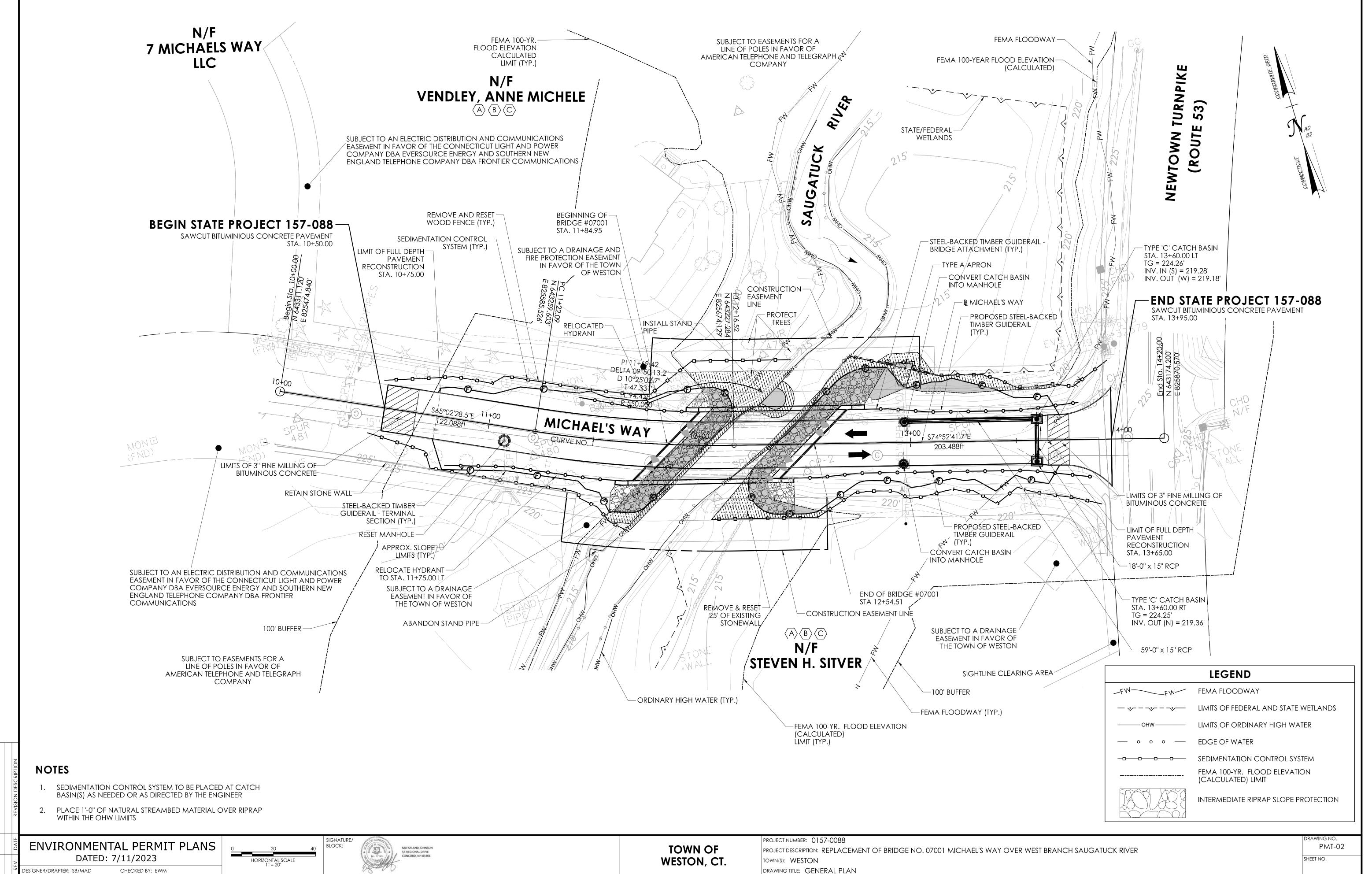
McFARLAND JOHNSON 53 REGIONAL DRIVE CONCORD, NH 03301

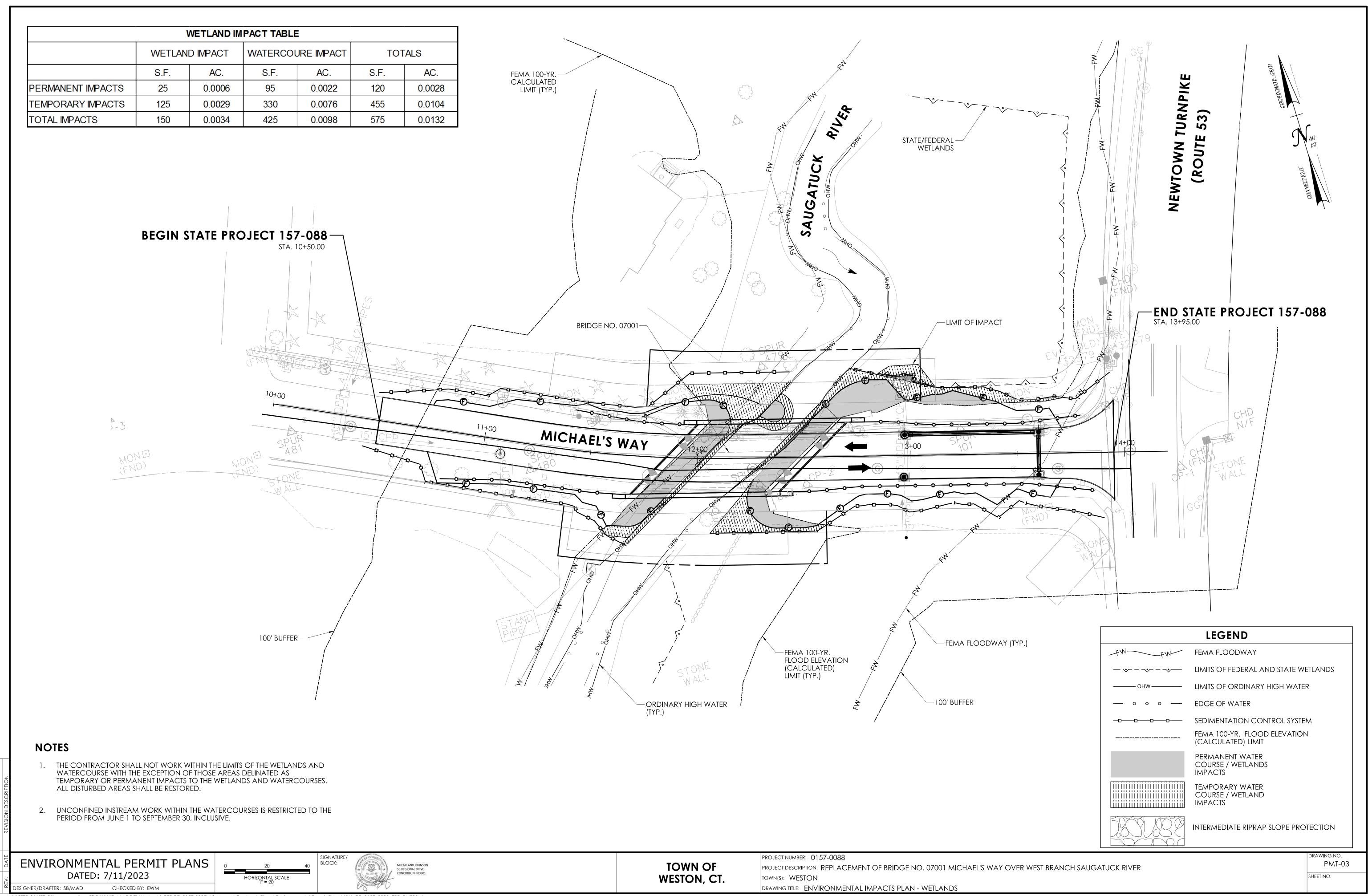
TOWN OF WESTON, CT.

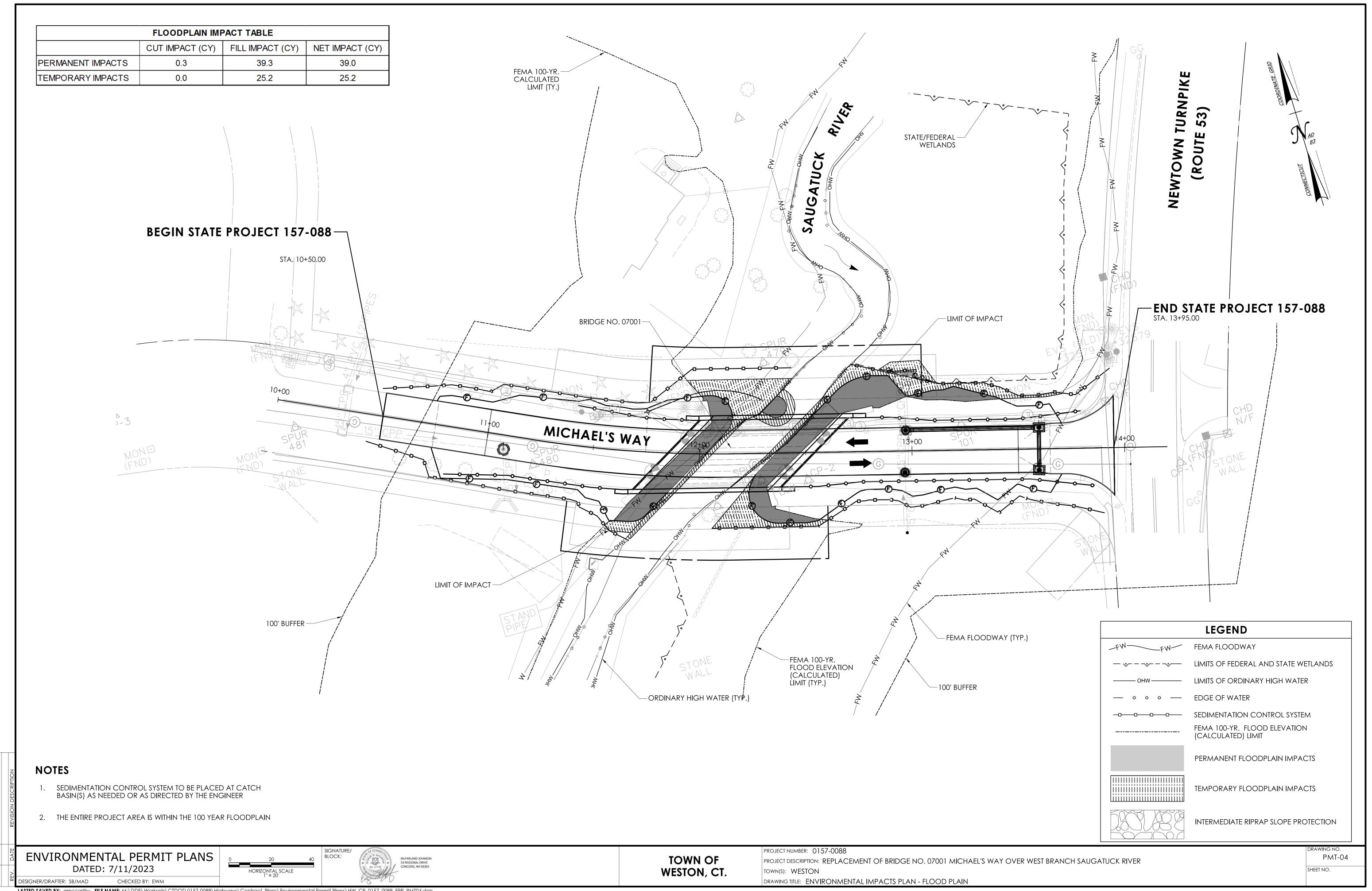
DRAWING TITLE: TITLE SHEET

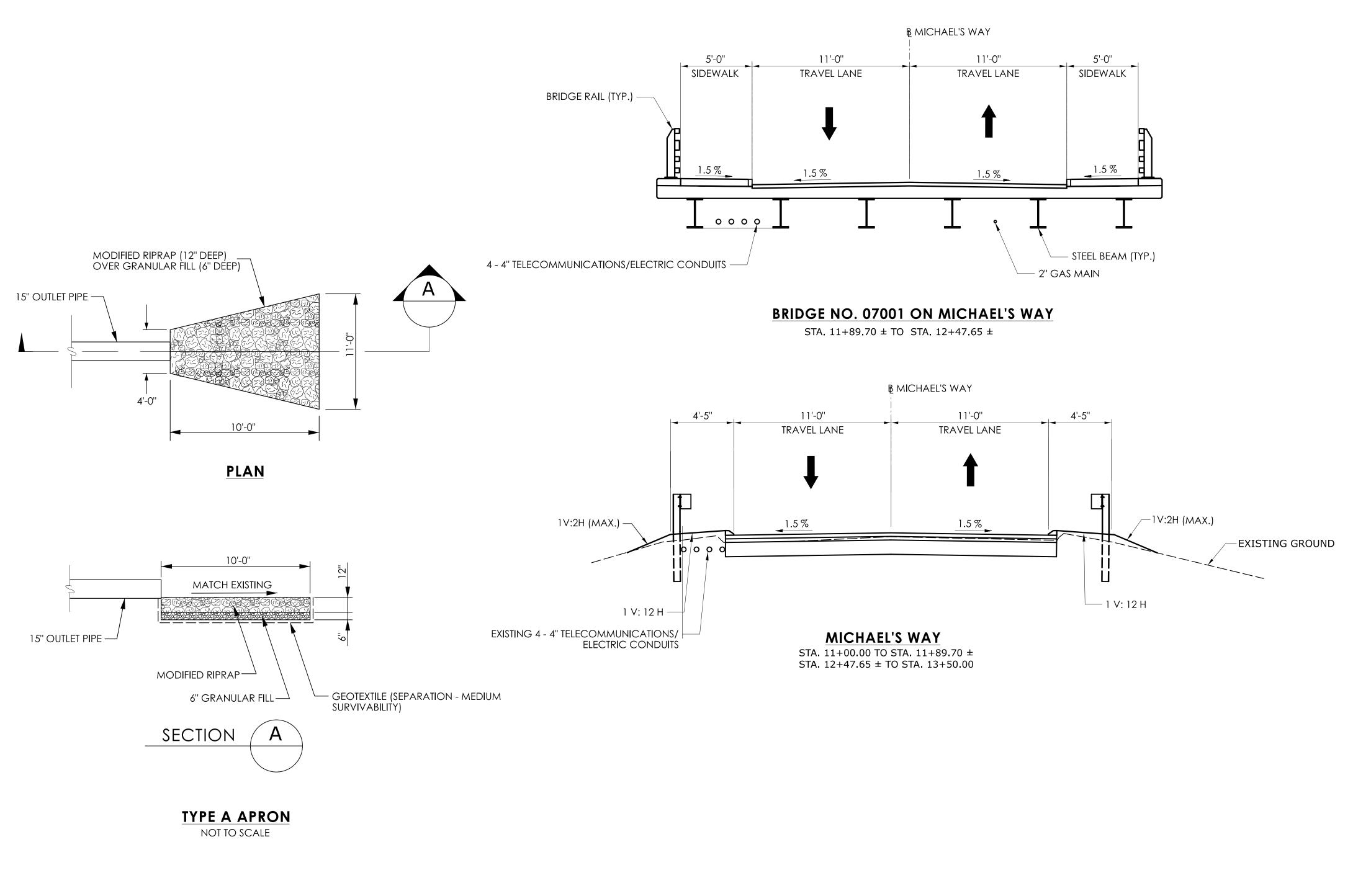
PROJECT NUMBER: 0157-0088 PROJECT DESCRIPTION: REPLACEMENT OF BRIDGE NO. 07001 MICHAEL'S WAY OVER WEST BRANCH SAUGATUCK RIVER TOWN(S): WESTON

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HYDRAULIC DATA		
DRAINAGE AREA	6.25 SQ. MILES	
DESIGN FREQUENCY	100 YEAR	
DESIGN DISCHARGE	1,530 CFS	
AVERAGE DAILY FLOW ELEVATION	212.45 FT (ESTIMATED)	
UPSTREAM DESIGN WATER SURFACE ELEVATION	220.09 FT	
DOWNSTREAM DESIGN WATER SURFACE ELEVATION	217.20 FT	
MAXIMUM SCOUR ELEVATION	201.00 FT	
FREQUENCY	500 YEAR	
DISCHARGE	1,960 CFS	
WORST CASE SCOUR SUB-STRUCTURE UNIT	ABUTMENT 2	

ELEVATION SCALE 1"=10'

NOTE

1'-0" OF NATURAL STREAMBED MATERIAL SHALL BE PLACED OVER ANY RIPRAP WITHIN THE OHW LIMITS

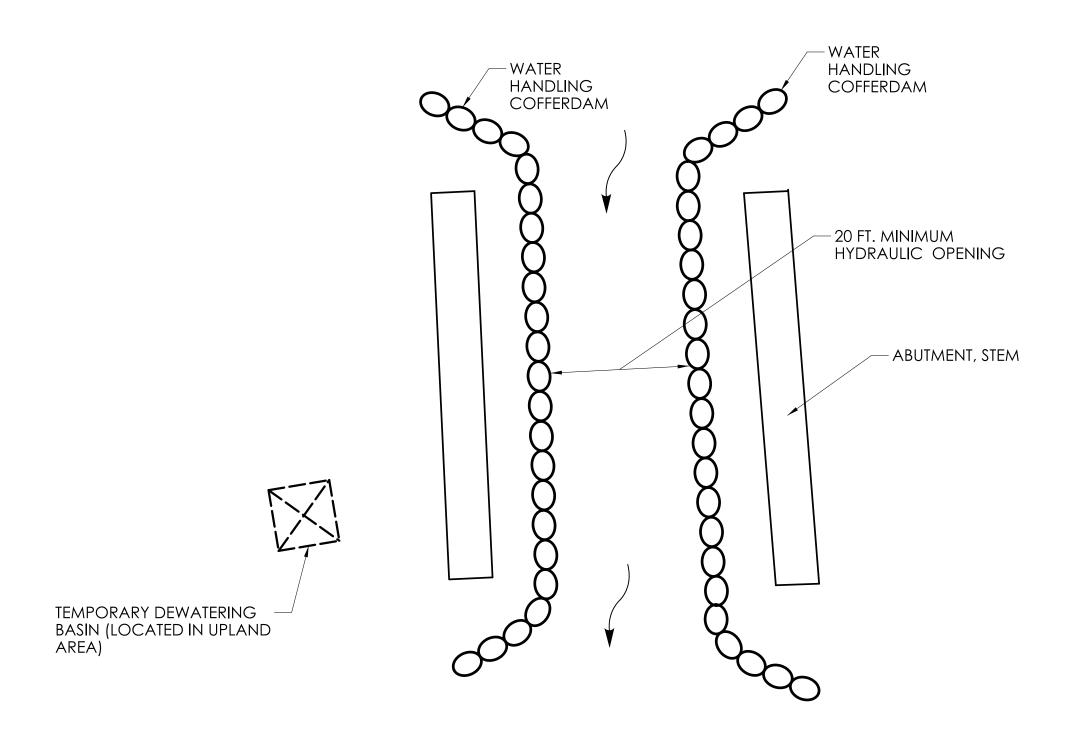
ENVIRONMENTAL PERMIT PLANS DATED: 7/11/2023 CHECKED BY: EWM

McFARLAND JOHNSON 53 REGIONAL DRIVE CONCORD, NH 03301

TOWN OF WESTON, CT.

PROJECT NUMBER: 0157-0088 PROJECT DESCRIPTION: REPLACEMENT OF BRIDGE NO. 07001 MICHAEL'S WAY OVER WEST BRANCH SAUGATUCK RIVER TOWN(S): WESTON DRAWING TITLE: TYPICAL SECTIONS AND ELEVATION

PMT-05

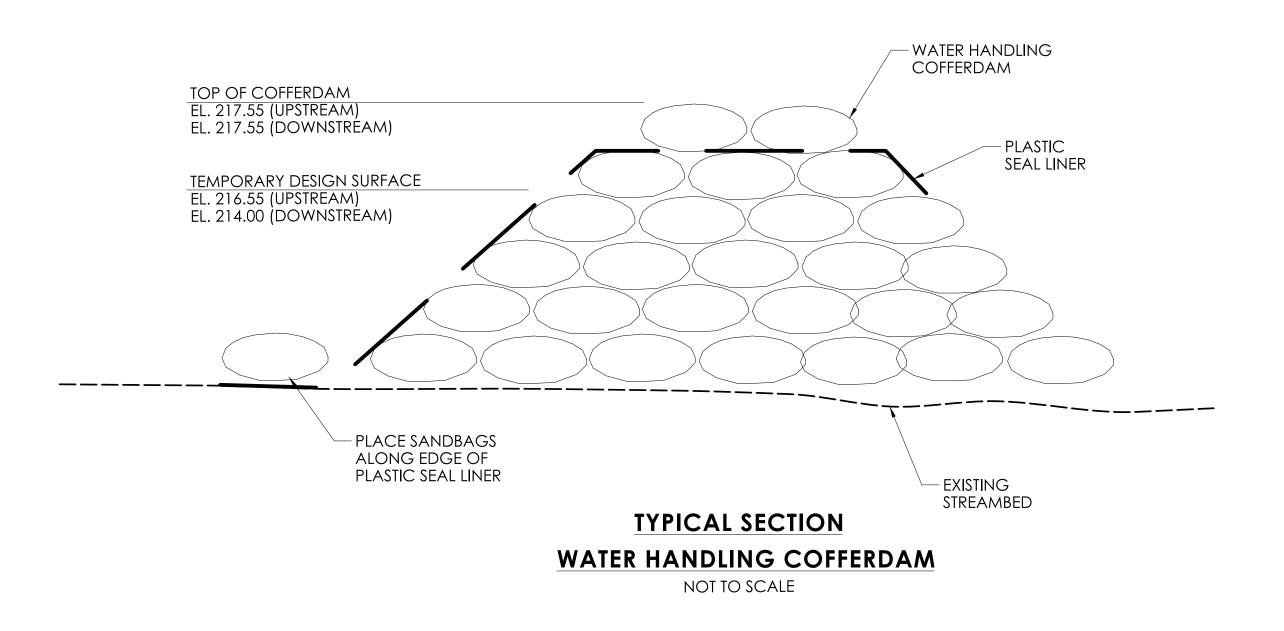


HANDLING WATER AROUND ABUTMENTS NOT TO SCALE

TEMPORARY HYDRAULIC SUMMARY DATA		
AVERAGE DAILY FLOW (ADF)	12.0 CFS	
AVERAGE SPRING FLOW (ASF)	23.0 CFS	
2 - YEAR DESIGN FREQUENCY	564 CFS	
TEMPORARY DESIGN SURFACE ELEVATION (UPSTREAM)	216.55 FT	
TEMPORARY DESIGN SURFACE ELEVATION (DOWNSTREAM)	214.00 FT	

TOWN OF

WESTON, CT.



SIGNATURE/ BLOCK:

WATER HANDLING NOTES:

- 1. THE CONTRACTOR SHALL DESIGN THE TEMPORARY COFFERDAMS AND SUBMIT MEANS AND METHODS OF HANDLING WATER TO THE ENGINEER FOR APPROVAL.
- 2. THE COST OF THE TEMPORARY COFFERDAMS, TEMPORARY BYPASS PIPES, TEMPORARY DRAINAGE PIPES, STREAM DIVERSION STRUCTURES, PUMPS, AND ANY OTHER NECESSARY INCIDENTAL APPURTENANCES REQUIRED TO HANDLE THE WATER SHALL BE INCLUDED IN THE COST OF THE ITEM "HANDLING WATER".
- 3. ALL WATER PUMPED FROM WITHIN THE TEMPORARY COFFERDAMS TO BE HANDLED THROUGH THE TEMPORARY DEWATERING BASIN. THE SMALL TEMPORARY SEDIMENTATION BASIN AND PUMP(S) SHALL BE SIZED BY THE CONTRACTOR AND SUBMITTED TO THE ENGINEER FOR APPROVAL. COST OF TEMPORARY DEWATERING BASIN SHALL BE INCLUDED IN THE COST OF ITEM "HANDLING WATER".
- 4. TOP OF TEMPORARY WATER HANDLING COFFERDAM SHALL BE MINIMUM EL. 217.55.
- 5. UNCONFINED INSTREAM WORK WITHIN THE WATERCOURSE IS RESTRICTED TO THE PERIOD FROM JUNE 1 TO SEPTEMBER 30, INCLUSIVE.

SUGGESTED SEQUENCE OF CONSTRUCTION

- 1. IMPLEMENT THE DETOUR (SEE DETOUR PLAN).
- 2. INSTALL SEDIMENTATION CONTROL SYSTEM AND CLEAR AND GRUB SITE AS REQUIRED.
- 3. INSTALL TEMPORARY COFFERDAMS AND WATER HANDLING.
- 4. INSTALL TEMPORARY UTILITY SUPPORT SYSTEM AND TRANSFER UTILITIES FROM THE EXISTING BRIDGE TO THE TEMPORARY SUPPORT STRUCTURES. NOTE UTILITIES ARE TO REMAIN IN PLACE FOR THE DURATION OF CONSTRUCTION. THE CONTRACTOR SHALL TAKE PROPER PRECAUTIONS DURING DEMOLITION NOT TO DAMAGE EXISTING UTILITIES.
- 5. EXCAVATE AND DEMOLISH EXISTING BRIDGE STRUCTURE, WHICH INCLUDES COMPLETE REMOVAL OF THE EXISTING SUPERSTRUCTURE, SUBSTRUCTURES, AND STEEL PILES. DEBRIS SHIELD TO BE INSTALLED.
- 6. CONSTRUCT DEWATERING BASINS AND DEWATER SITE AS REQUIRED.
- 7. INSTALL MICROPILES AND PERFORM MICROPILE TESTS AS REQUIRED.
- 8. CONSTRUCT PROPOSED ABUTMENT PILE CAPS AND WINGWALLS TO ELEVATIONS SHOWN.
- 9. ESTABLISH GRADES IN THE STREAMBED AND ALONG BANKS. NOTE THAT THE ABUTMENTS ARE NOT TO BE BACKFILLED UNTIL THE DECK CONSTRUCTION IS COMPLETE AND HAS CURED. STOCKPILE MATERIAL UNDER THE BRIDGE AS REQUIRED PRIOR TO THE SUPERSTRUCTURE INSTALLATION.
- 10. INSTALL STRUCTURAL STEEL PLATE GIRDERS AND DIAPHRAGMS.
- 11. TRANSFER UTILITIES FROM THE TEMPORARY UTILITY SUPPORT STRUCTURES TO THEIR PERMANENT LOCATIONS. REMOVE TEMPORARY UTILITY SUPPORT STRUCTURES.
- 12. CONSTRUCT DECK, END DIAPHRAGMS, AND WINGWALLS PER THE DECK PLACEMENT SEQUENCE PROVIDED.
- 13. BACKFILL ABUTMENTS AND FINALIZE GRADES IN THE STREAM BED AND ALONG BANKS. REMOVE ALL WATER HANDLING.
- 14. CONSTRUCT SIDEWALKS, END BARRIERS, AND APPROACH SLABS.
- 15. INSTALL METAL BRIDGE RAIL FOUR RAIL.
- 16. REMOVE SEDIMENTATION AND CONTROL SYSTEMS UPON PERMANENT STABILIZATION.
- 17. FINALIZE ROADWAY ITEMS AND OPEN BRIDGE TO TRAFFIC.

DESIGNER/DRAFTER: SVO/RJT

ENVIRONMENTAL PERMIT PLANS

CHECKED BY: EWM

DATED: 7/11/2023

