



DEPARTMENT OF THE ARMY
US ARMY CORPS OF ENGINEERS
NEW ENGLAND DISTRICT
696 VIRGINIA ROAD
CONCORD MA 01742-2751

September 5, 2019

Regulatory Division
File No. NAE-2019-01002

Mr. James Brady
Vermont Agency of Transportation
One National Life Drive
Montpelier, Vermont 05633

Dear Mr. Brady:

Enclosed are two copies of a Department of the Army permit authorizing your project. **Please sign both copies of the permit and return one signed copy to this office at the address above.** The authorized work cannot start until we receive a complete, signed copy of the permit.

You are required to complete and return the enclosed forms to this office:

1. Preliminary Jurisdictional Determination Form to be submitted along with your signed copy of the permit
2. Work Start Notification Form at least two weeks before the anticipated work start date.
3. Compliance Certification Form within one month following the completion of the authorized work.

This permit is a limited authorization containing a specific set of conditions. Please read the permit thoroughly to familiarize yourself with those conditions. If a contractor does the work for you, both you and the contractor are responsible for ensuring that the work is done in compliance with the permit's terms and conditions, as any violations could result in civil or criminal penalties.

Our verification of this project's wetland delineation under the Corps of Engineers Wetlands Delineation Manual, and its applicable supplement, is valid for a period of five years from the date of this letter unless new information warrants revision of the determination before the expiration date.

A combined Notification of Administrative Appeal Options and Process (NAP) and Request for Appeal (RFA) form, and flow chart explaining the appeals process and your options, are enclosed. If you desire to appeal this proffered permit, you must submit a completed RFA form along with any supporting or clarifying information to James W. Haggerty; Administrative Appeals Review Officer; North Atlantic Division, Corps of Engineers; North Atlantic Fort Hamilton Military Community, Bldg. 301; General Lee Avenue; Brooklyn, NY 11252-6700. Contact info: (347) 370-4650 or james.w.haggerty@usace.army.mil.

In order for an RFA to be accepted by the Corps, the Corps must determine that it is complete, that it meets the criteria for appeal under 33 CFR 331.5, and that it has been received by the Division Office within 60 days of the date of the NAP.

This authorization does not obviate the need to obtain other Federal, state, or local authorizations required by law.

We continually strive to improve our customer service. In order for us to better serve you, we would appreciate your completing our Customer Service Survey located at http://corpsmapu.usace.army.mil/cm_apex/f?p=regulatory_survey.

If you have any questions regarding this correspondence, please contact Angela C. Repella at (802) 872-2893.

Sincerely,

DELGIUDICE.FRA
NKJ.1228916567

Digitally signed by
DELGIUDICE.FRANKJ.1228916567
Date: 2019.09.05 14:11:17 -0400

Frank J. DelGiudice
Chief, Permits and Enforcement Branch
Regulatory Division

Enclosures

cc:

Beth Alafat, U.S. Environmental Protection Agency Region 1, alafat.beth@epa.gov
Zapata Courage, Vermont Dept. of Environmental Conservation, Zapata.courage@vermont.gov
Josh Carvajal, Vermont Dept. of Environmental Conservation, Joshua.Carvajal@vermont.gov
James Brady, Vermont Agency of Transportation, James.Brady@vermont.gov

DEPARTMENT OF THE ARMY PERMIT

Permittee: Vermont Agency of Transportation

Permit No: NAE-2019-01002

Issuing Office: New England District

NOTE: The term "you" and its derivatives, as used in this permit, means the permittee or any future transferee. The term "this office" refers to the appropriate district or division office of the Corps of Engineers having jurisdiction over the permitted activity or the appropriate official of that office acting under the authority of the commanding officer.

You are authorized to perform work in accordance with the terms and conditions specified below.

Project Description:

Place fill within 1.17 acres of two unnamed tributaries and adjacent wetlands in conjunction with the reconstruction of approximately 1.36 miles of U.S. Route 7 from mile marker 1.35 to mile marker 2.755 in Pittsford, Vermont. The purpose of the project is to bring this section of roadway up to National Highway Standards. Improvements will include roadway widening and realignment to include two 12' wide travel lanes and two 8' wide shoulders, and replacement of three stream crossing structures.

The project will permanently impact approximately 3,085 sq. ft. (0.07 acre) of two unnamed tributaries and 16,086 sq. ft. (0.37 acre) of adjacent wetlands. The work will temporarily impact approximately 1,085 sq. ft. (0.02 acre) of two unnamed tributaries and 30,774 sq. ft. (0.71 acre) of adjacent wetlands. The project includes the replacement of Bridge No. 106, Bridge No. 107, and Bridge No. 107A along the two unnamed tributaries with improved stream crossing structures that meet hydraulic and aquatic organism passage standards. Temporary roadway relocation is planned to bypass traffic during construction and accounts for the majority of temporary wetland impacts associated with the project. The wetlands to be impacted are palustrine emergent, scrub-shrub and forested wetlands immediately adjacent to the highway and function primarily to maintain water quality.

The work is shown on the enclosed plans, in forty-six sheets, entitled "Project Location map for Pittsford NH 019-3 (491)" (dated "July 25, 2018", last revised "June 5, 2019") and "PITTSFORD NH 019-3 (491)" (dated "29-MAR-2019", "05-JUN-2019", "01-MAY-2019", and "12-APR-2019").

Project Location:

The work is located along two unnamed tributaries and adjacent wetlands for the reconstruction of approximately 1.36 miles of U.S. Route 7 from mile marker 1.35 to mile marker 2.755 in Pittsford, Vermont.

Permit Conditions:

General Conditions:

1. The time limit for completing the work authorized ends on September 5, 2024. If you find that you need more time to complete the authorized activity, submit your request for a time extension to this office for consideration at least one month before the above date is reached.
2. You must maintain the activity authorized by this permit in good condition and in conformance with the terms and conditions of this permit. You are not relieved of this requirement if you abandon the permitted activity, although you may make a good faith transfer to a third party in compliance with General Condition 4 below. Should you wish to cease to maintain the authorized activity or should you desire to abandon it without a good faith transfer, you must obtain a modification of this permit from this office, which may require restoration of the area.
3. If you discover any previously unknown historic or archeological remains while accomplishing the activity authorized by this permit, you must immediately notify this office of what you have found. We will initiate the Federal and State coordination required to determine if the remains warrant a recovery effort or if the site is eligible for listing in the National Register of Historic Places.

4. If you sell the property associated with this permit, you must obtain the signature of the new owner in the space provided and forward a copy of the permit to this office to validate the transfer of this authorization.
5. If a conditioned water quality certification has been issued for your project, you must comply with the conditions specified in the certification as special conditions to this permit. For your convenience, a copy of the certification is attached if it contains such conditions.
6. You must allow representatives from this office to inspect the authorized activity at any time deemed necessary to ensure that it is being or has been accomplished in accordance with the terms and conditions of your permit.

Special Conditions:

1. The permittee shall ensure that a copy of this permit is at the work site (and the project office) authorized by this permit whenever work is being performed, and that all personnel with operational control of the site ensure that all appropriate personnel performing work are fully aware of its terms and conditions. The entire permit shall be made a part of any and all contracts and sub-contracts for work that affects areas of Corps jurisdiction at the site of the work authorized by this permit. This shall be achieved by including the entire permit in the specifications for work. The term "entire permit" means this permit (including its drawings, plans, appendices and other attachments) and also includes permit modifications.

If the permit is issued after the construction specifications, but before receipt of bids or quotes, the entire permit shall be included as an addendum to the specifications. If the permit is issued after receipt of bids or quotes, the entire permit shall be included in the contract or sub-contract. Although the permittee may assign various aspects of the work to different contractors or sub-contractors, all contractors and sub-contractors shall be obligated by contract to comply with all environmental protection provisions contained within the entire permit, and no contract or sub-contract shall require or allow unauthorized work in areas of Corps jurisdiction.

2. The permittee shall complete and return the enclosed Compliance Certification Form within one month following the completion of the authorized work.

3. In order to provide compensatory mitigation for the loss of aquatic habitat, the permittee shall make a payment of \$72,077.81 to the Ducks Unlimited – Vermont In-Lieu Fee (ILF) Program. Checks must be payable to "Ducks Unlimited, Inc." and mailed to the attention of Michelle Burdick, Ducks Unlimited, 7322 Newman Boulevard, Building 1, Dexter, MI 48130. All checks must have the Corps permit number on the memo line. This is to secure 0.41 wetland credits. Work shall not begin until the Corps has received confirmation that the payment has been received. The ILF amount is only valid for a period of one year from the date on the authorization letter. After that time, the project would need to be reevaluated and a new amount determined.

4. Adequate sedimentation and erosion control devices, such as geotextile silt fences or other devices capable of filtering the fines involved, shall be implemented and properly maintained to minimize impacts during construction. These devices must be removed upon completion of work and stabilization of disturbed areas. The sediment collected by these devices must also be removed and placed upland, in a manner that will prevent its later erosion and transport into a waterway or wetland.

5. No temporary fill (e.g., access roads, cofferdams) may be placed in waters or wetlands unless specifically authorized by this permit. The slope of all temporary fills must be stabilized to prevent erosion, through such means as placing weighted geotextile fabric on the slope. The temporary fill shall be completely removed upon completion of the project, and shall be placed upland in a manner that will prevent its later erosion and transport to a waterway or wetland. The temporary fill area shall be restored to its approximate original contours (but not higher).

6. All excess material shall be disposed of at an upland, non-wetland site.

7. Only clean fill shall be used.

8. All contractors' equipment shall be cleaned so as to contain no observable soil or vegetation prior to work in wetlands and waterways to prevent the spread of invasive species.

9. Disposal site(s) for temporary fills and for any excess material shall not be used without prior written approval from the New England District Corps of Engineers, Vermont Project Office.

Further Information:

1. Congressional Authorities: You have been authorized to undertake the activity described above pursuant to:

- ☐ Section 10 of the Rivers and Harbors Act of 1899 (33 U.S.C. 403).
- ☒ Section 404 of the Clean Water Act (33 U.S.C. 1344).
- ☐ Section 103 of the Marine Protection, Research and Sanctuaries Act of 1972 (33 U.S.C. 1413).

2. Limits of this authorization.

- a. This permit does not obviate the need to obtain other Federal, State, or local authorizations required by law.
- b. This permit does not grant any property rights or exclusive privileges.
- c. This permit does not authorize any injury to the property or rights of others.
- d. This permit does not authorize interference with any existing or proposed Federal project.

3. Limits of Federal Liability. In issuing this permit, the Federal Government does not assume any liability for the following:

- a. Damages to the permitted project or uses thereof as a result of other permitted or unpermitted activities or from Natural causes.
- b. Damages to the permitted project or uses thereof as a result of current or future activities undertaken by or on behalf of the United States in the public interest.
- c. Damages to persons, property, or to other permitted or unpermitted activities or structures caused by the activity authorized by this permit.
- d. Design or construction deficiencies associated with the permitted work.
- e. Damage claims associated with any future modification, suspension, or revocation of this permit.

4. Reliance on Applicant's Data: The determination of this office that issuance of this permit is not contrary to the public interest was made in reliance on the information you provided.

5. Reevaluation of Permit Decision. This office may reevaluate its decision on this permit at any time the circumstances warrant. Circumstances that could require a reevaluation include, but are not limited to, the following:

- a. You fail to comply with the terms and conditions of this permit.
- b. The information provided by you in support of your permit application proves to have been false, incomplete, or inaccurate (See 4 above).
- c. Significant new information surfaces which this office did not consider in reaching the original public interest decision.

Such a reevaluation may result in a determination that it is appropriate to use the suspension, modification, and revocation procedures contained in 33 CFR 325.7 or enforcement procedures such as those contained in 33 CFR 326.4 and 326.5. The referenced enforcement procedures provide for the issuance of an administrative order requiring you to comply with the terms and conditions of your permit and for the initiation of legal action where appropriate. You will be required to pay for any corrective measures ordered by this office, and if you fail to comply with such directive, this office may in certain situations (such as those specified in 33 CFR 209.170) accomplish the corrective measures by contract or otherwise and bill you for the cost.

Your signature below, as permittee, indicates that you accept and agree to comply with the terms and conditions of this permit.



(PERMITTEE)

September 5, 2019

(DATE)

This permit becomes effective when the Federal official, designated to act for the Secretary of the Army, has signed below.

DELGIUDICE.FRANK.J.1228916567 Digitally signed by DELGIUDICE.FRANK.J.1228916567
Date: 2019.09.05 14:12:17 -04'00'

Frank J. DelGiudice, Chief, Permits & Enforcement Branch C
Chief, Permits and Enforcement Branch
Regulatory Division
For District Engineer

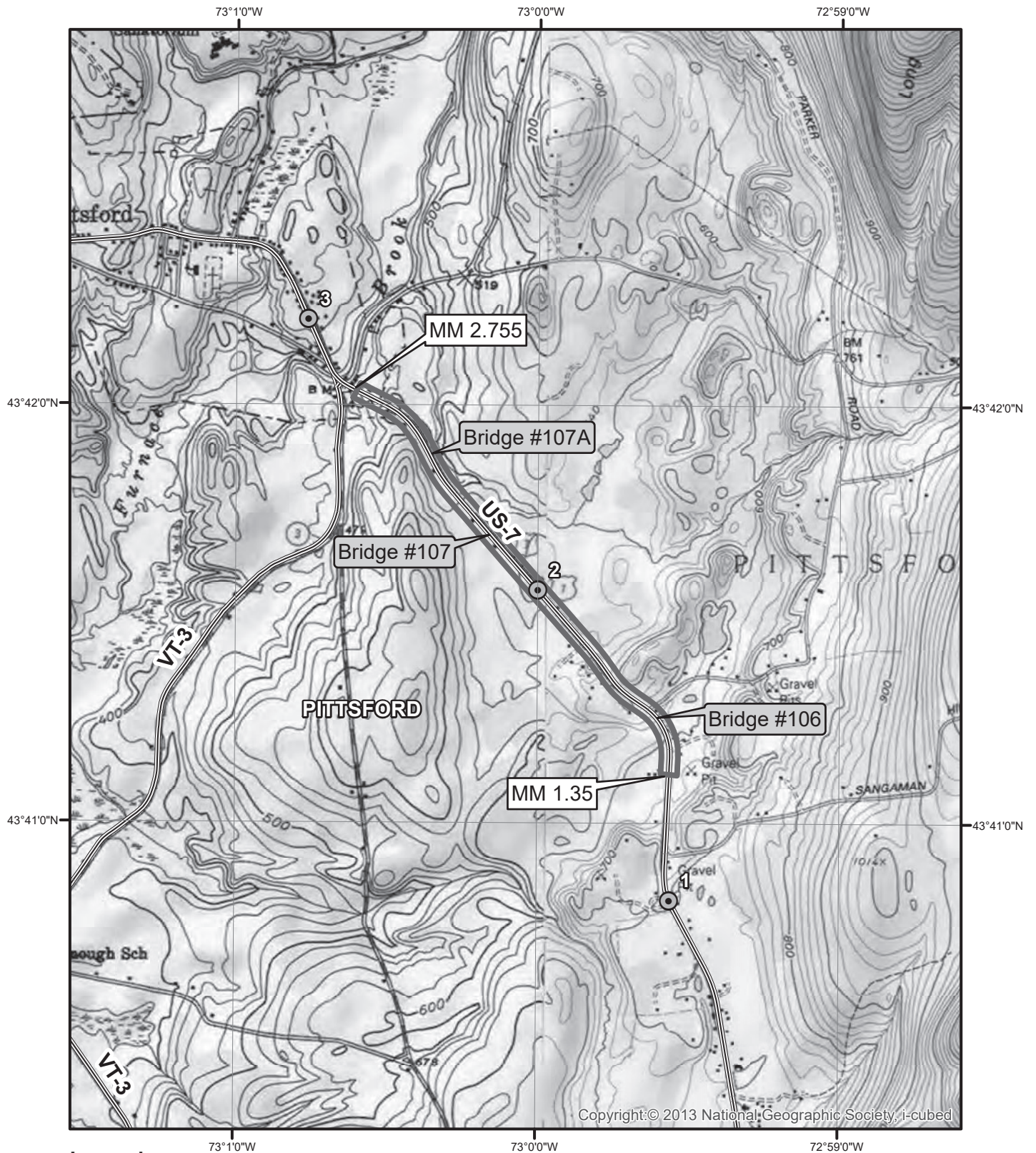
(DATE)

When the structures or work authorized by this permit are still in existence at the time the property is transferred, the terms and conditions of this permit will continue to be binding on the new owner(s) of the property. To validate the transfer of this permit and the associated liabilities associated with compliance with its terms and conditions, have the transferee sign and date below.




(TRANSFEE)

(DATE)

Project Location Map for Pittsford NH 019-3 (491)
US Route 7
Pittsford, Vermont



Legend

-  Mile Marker
-  Study Area
-  Major Road
- 0 1,000 2,000 Feet
- 1 inch = 2,000 feet



Study area includes 100 feet from the road edge on each side of US Route 7 for 1.405 linear miles.

Data sources include:
Vermont Center for Geographic Information (VCGI)
Vermont Agency of Natural Resources (ANR)
Vermont Agency of Transportation (VTrans)
Bear Creek Environmental (BCE)

Map composed on July 25, 2018. Revised June 5, 2019.



Bear Creek
Environmental

BEGINNING AT A POINT IN THE TOWN OF PITTSFORD ON US ROUTE 7 AT STATION 5+380.00 (MM 1.350)
EXTENDING NORTHERLY TO STATION 7+580.00 (MM 2.755)

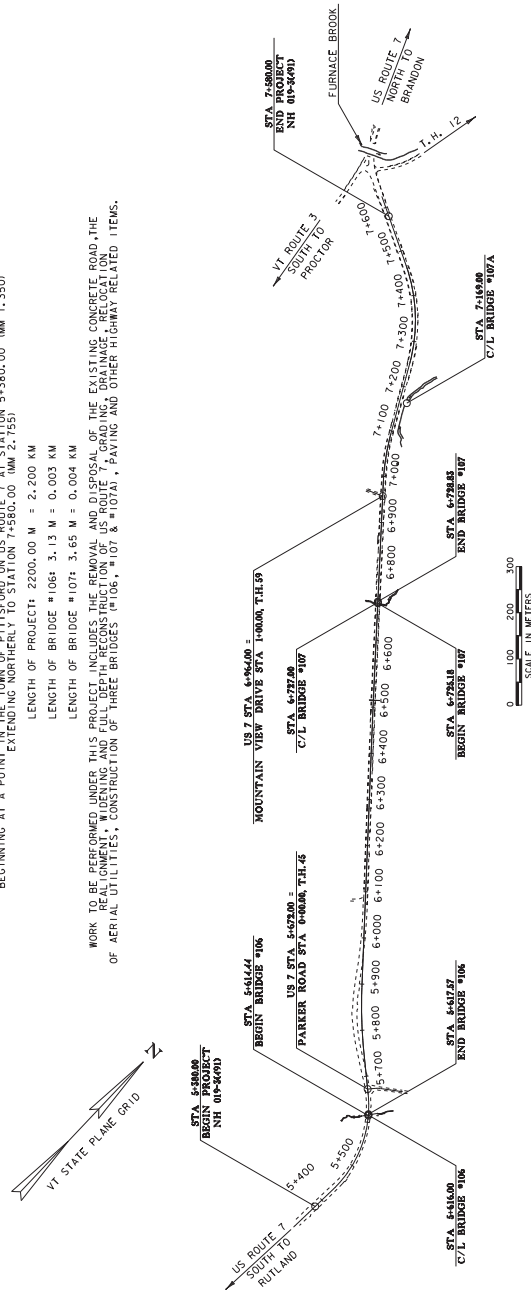
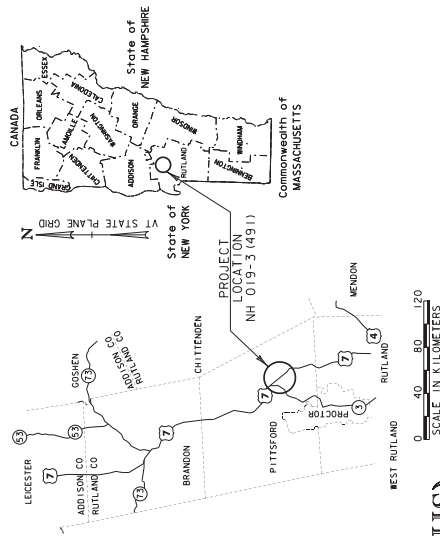
LENGTH OF PROJECT: 2200.00 M = 2.200 KM

LENGTH OF BRIDGE #106: 3.13 M = 0.003 KM

LENGTH OF BRIDGE #107: 3.65 M = 0.004 KM

WORK TO BE PERFORMED UNDER THIS PROJECT INCLUDES THE REMOVAL AND DISPOSAL OF THE EXISTING CONCRETE ROAD, THE REALIGNMENT, WIDENING AND FULL DEPTH RECONSTRUCTION OF US ROUTE 7, GRADING, DRAINAGE, RELOCATION OF AERIAL UTILITIES, CONSTRUCTION OF THREE BRIDGES (#106, #107 & #107A), PAVING AND OTHER HIGHWAY RELATED ITEMS.

FINAL PLANS
29-MAR-2019



CONSTRUCTION IS TO BE CARRIED ON IN ACCORDANCE WITH THESE PLANS AND THE STANDARD SPECIFICATIONS FOR CONSTRUCTION DATED 2008, AS APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION ON APRIL 15, 2018 FOR USE ON THIS PROJECT, INCLUDING ALL SUBSEQUENT REVISIONS AND SUCH REVISED SPECIFICATIONS AND SPECIAL PROVISIONS AS ARE INCORPORATED IN THESE PLANS.



UNLESS NOTED OTHERWISE
STATIONS ARE IN KILOMETERS
ELEVATIONS ARE IN METERS
DIMENSIONS ARE IN MILLIMETERS

BITUMINOUS CONCRETE PAVEMENT SUPERPAVE MIXTURE DESIGN CRITERIA

DESIGN LIFE ESALS (DESIGN LANE)	3,920,000
DESIGN NUMBER OF GRAYATIONS	80
PERFORMANCE GRADED ASPHALT BINDER	SEE SECTION 490 GENERAL SPECIAL PROVISIONS

DESIGN SPEED = 80 KM/HR	(STA 5+338 TO STA 7+185)
DESIGN SPEED = 56 KM/HR	(STA 7+185 TO STA 7+622)

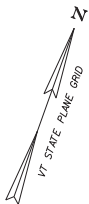
TRAFFIC DATA

AADT		DHW		ADTT	
2018	2038	2018	2038	2018	2038
9,900	10,500	1100	1200	820	1200

	%T		%D		ESALs	
	2018	2038	2018	2038	2018-2038	2018-2058
	4.5	6.3	55	55	7,128,000	16,407,000

QUALITY ASSURANCE PROGRAM : LEVEL I
SURVEYED BY : VAOT
SURVEYED DATE : 5/99 (UPDATED 1/01)
DATUM
VERTICAL NAVD 88
HORIZONTAL NAD 83 (1992)

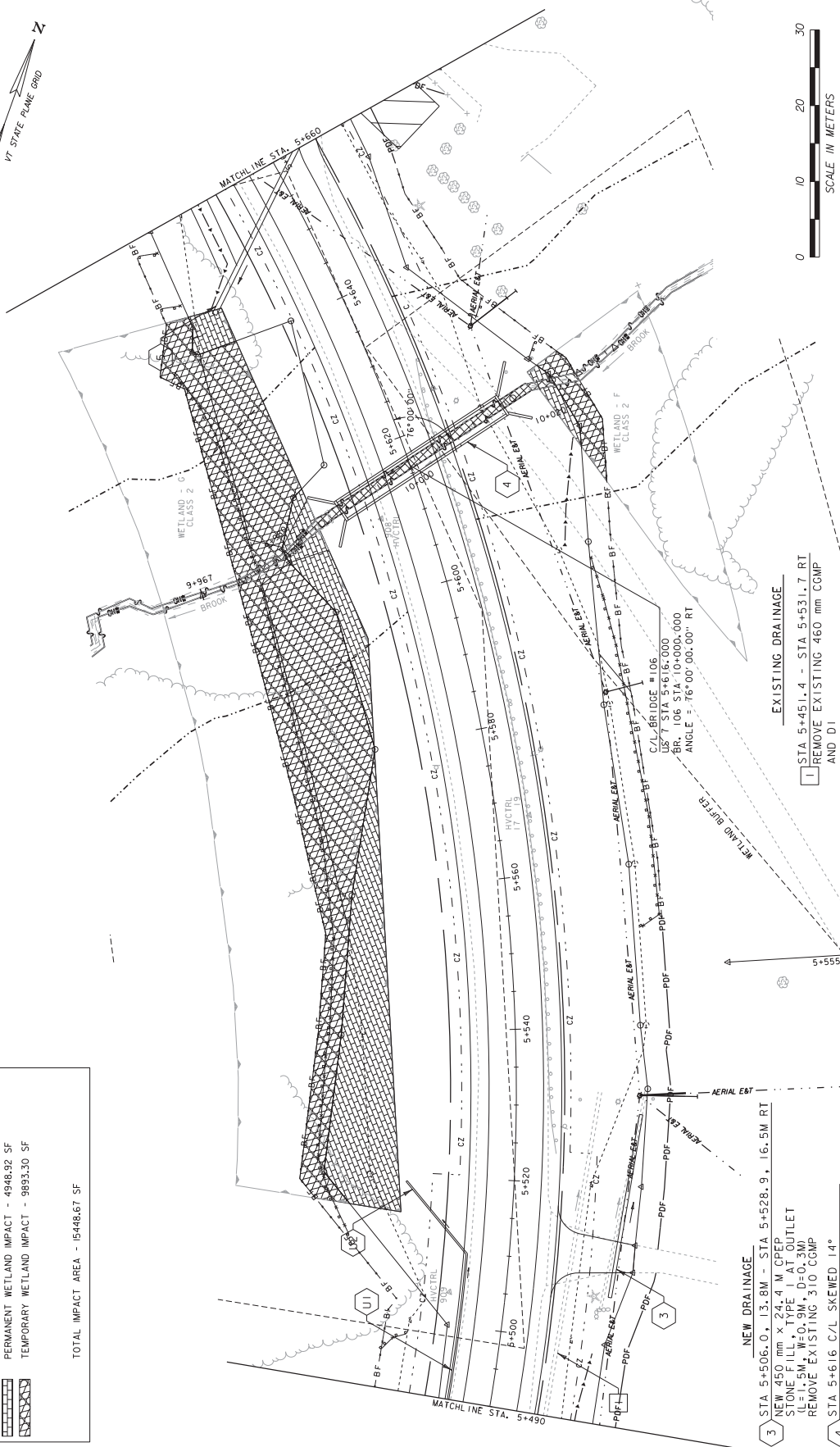
HIGHWAY DIVISION, CHIEF ENGINEER
APPROVED _____ DATE _____
PROJECT MANAGER : BRUCE MARTIN, P.E.
PROJECT NAME : PITTSFORD
PROJECT NUMBER : NH 019-3 (491)
SHEET 1 OF 368 SHEETS



LEGEND

- PERMANENT OHW IMPACT - 531.42 SF
- TEMPORARY OHW IMPACT - 75.03 SF
- PERMANENT WETLAND IMPACT - 4946.92 SF
- TEMPORARY WETLAND IMPACT - 9893.30 SF

TOTAL IMPACT AREA - 15446.67 SF



EXISTING DRAINAGE

- 1 STA 5+451.4 - STA 5+531.7 RT
REMOVE EXISTING 460 mm CGMP
AND D1
- 2 STA 5+380' - STA 5+509.8 LT
NEW 200 mm x 128 M UNDERDRAIN
W/FLUSHING BASIN AT STA 5+380
- 3 STA 5+509.8 - STA 5+519.3 LT
NEW 200 mm x 13 M UNDERDRAIN
CARRIER PIPE





NEW DRAINAGE

- 3 STA 5+506.0 - 13.8M - STA 5+528.9, 16.5M RT
NEW 450 mm x 24.4 M CPEP
STONE FILL TYPE 1 AT OUTLET
(L=1.5M, W=0.9M, D=0.3M)
REMOVE EXISTING 310 CGMP
- 4 STA 5+616 C/L SKEWED 14°
NEW 2.44 M x 2.13 M PRECAST (CB
STONE FILL TYPE 1 AT INLET AND OUTLET
REMOVE EXISTING 1.2 M x 1.2 M x 31.0 M
BOX CULVERT REMOVE EXISTING WWS AND HWS
- 5 STA 5+641.9, 16.2M LT - STA 5+664.7, 10.6M RT
NEW 600 mm x 33.0 M CPEP
STONE FILL TYPE 1 AT OUTLET
(L=4.7M, W=0.9M, D=0.6M)

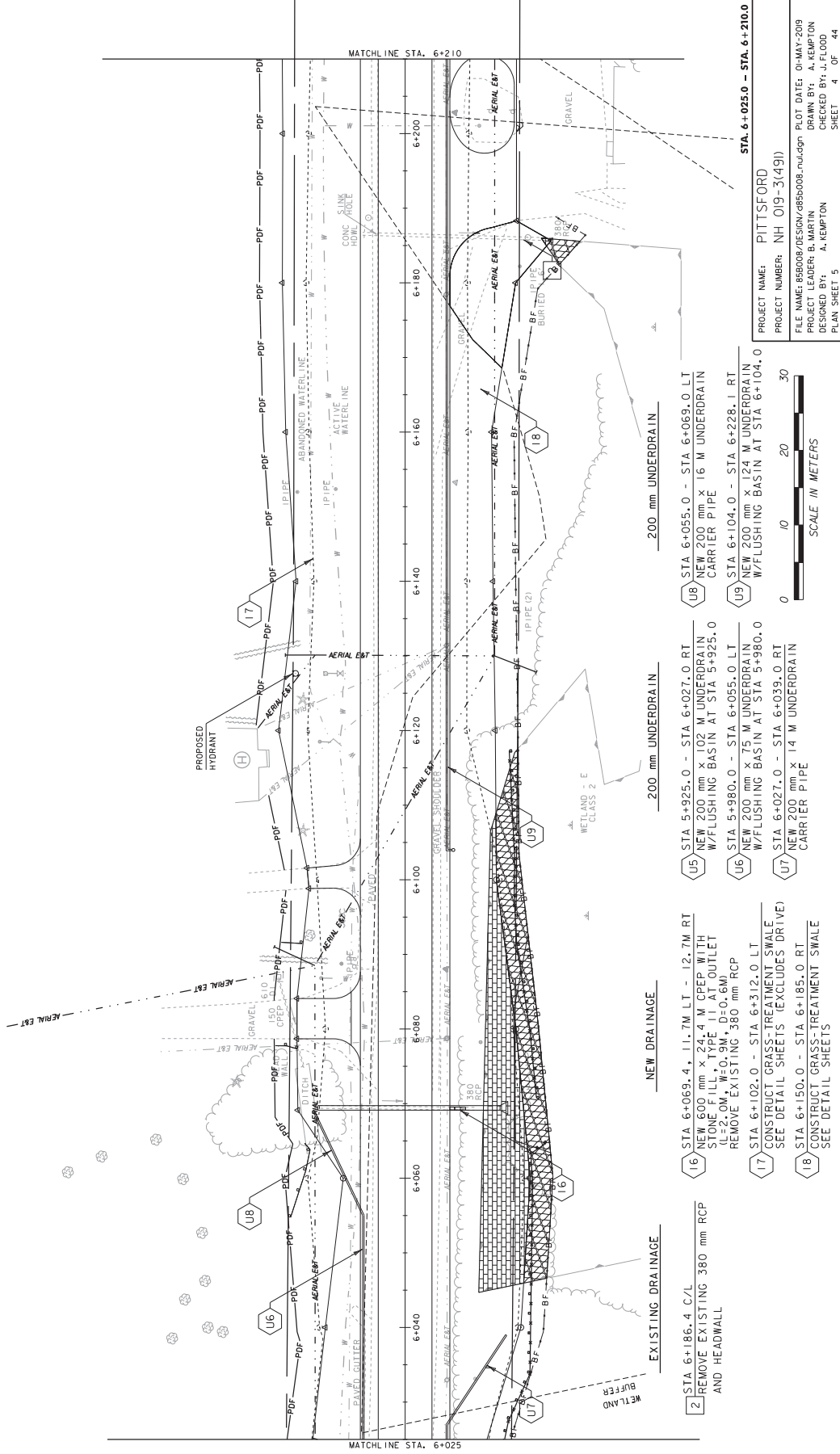
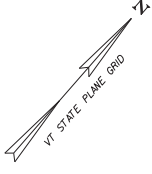
PROJECT NAME: PITTSFORD
PROJECT NUMBER: NH 019-3(491)
FILE NAME: 050008.DESIGN/050008.mxd
PLOT DATE: 05-JUN-2019
PROJECT LEADER: B. MARTIN
DESIGNED BY: A. KEMPTON
CHECKED BY: J. FLOOD
SHEET 2 OF 44

STA. 5+490.0 - STA. 5+660.0

LEGEND

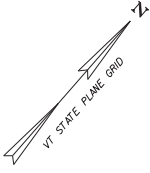
	PERMANENT OHW IMPACT - 0 SF
	TEMPORARY OHW IMPACT - 0 SF
	PERMANENT WETLAND IMPACT - 2744.39 SF
	TEMPORARY WETLAND IMPACT - 2343.75 SF

TOTAL IMPACT AREA - 5088.14 SF



STA. 6 + 025.0 - STA. 6 + 210.0

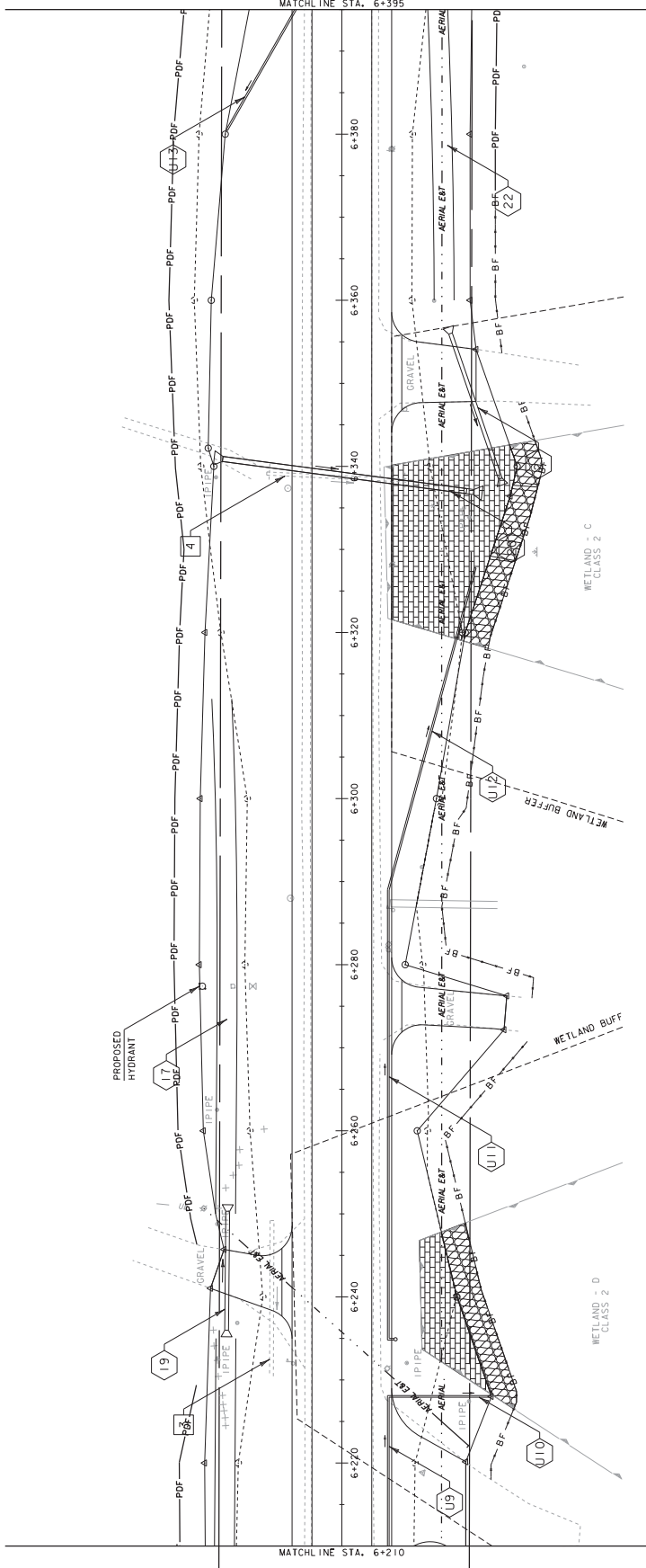
PROJECT NAME:	PITTSFORD
PROJECT NUMBER:	NH 019-3(491)
FILE NAME:	855008/DESIGN/855008.nwdgn
PROJECT LEADER:	A. KEMPTON
DESIGNED BY:	A. KEMPTON
CHECKED BY:	J. FLOOD
PLANNED BY:	J. FLOOD
PLAN SHEET 5:	SHEET 4 OF 44



LEGEND

- PERMANENT OHW IMPACT - 0 SF
- TEMPORARY OHW IMPACT - 0 SF
- PERMANENT WETLAND IMPACT - 3643.29 SF
- TEMPORARY WETLAND IMPACT - 1551.42 SF

TOTAL IMPACT AREA - 5194.71 SF



EXISTING DRAINAGE

- 3 STA 6+230.4 - STA 6+249.2 LT
- 4 STA 6+338.7 C/L
- 17 CONSTRUCT GRASS-TREATMENT SWALE
- 19 STA 6+235.9, 13.9M - STA 6+250.3, 13.8M LT

NEW DRAINAGE

- 17 CONSTRUCT GRASS-TREATMENT SWALE
- 19 STA 6+235.9, 13.9M - STA 6+250.3, 13.8M LT

NEW DRAINAGE

- 20 STA 6+336.9, 15.9M RT - STA 6+340.9, 14.4M LT
- 21 STA 6+337.9, 19.1M - STA 6+356.1, 13.1M RT
- 22 CONSTRUCT GRASS-TREATMENT SWALE

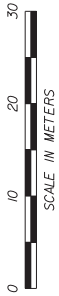
200 mm UNDERDRAIN

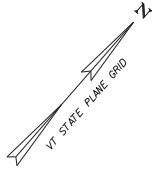
- U9 STA 6+104.0 - STA 6+228.1 RT
- U10 STA 6+228.1 - STA 6+228.1 RT
- U11 STA 6+235.0 - STA 6+289.0 RT

200 mm UNDERDRAIN

- U12 STA 6+289.0 - STA 6+327.8 RT
- U13 STA 6+380.4 - STA 6+395.0 LT

PROJECT NAME:	PITTSFORD
PROJECT NUMBER:	NH 019-3(491)
FILE NAME:	BS008/DESIGN/BS008.nwdgn
DESIGNED BY:	A. KEMPTON
CHECKED BY:	J. FLOOD
DRAWN BY:	A. KEMPTON
PLAN SHEET	6
SHEET	5 OF 44

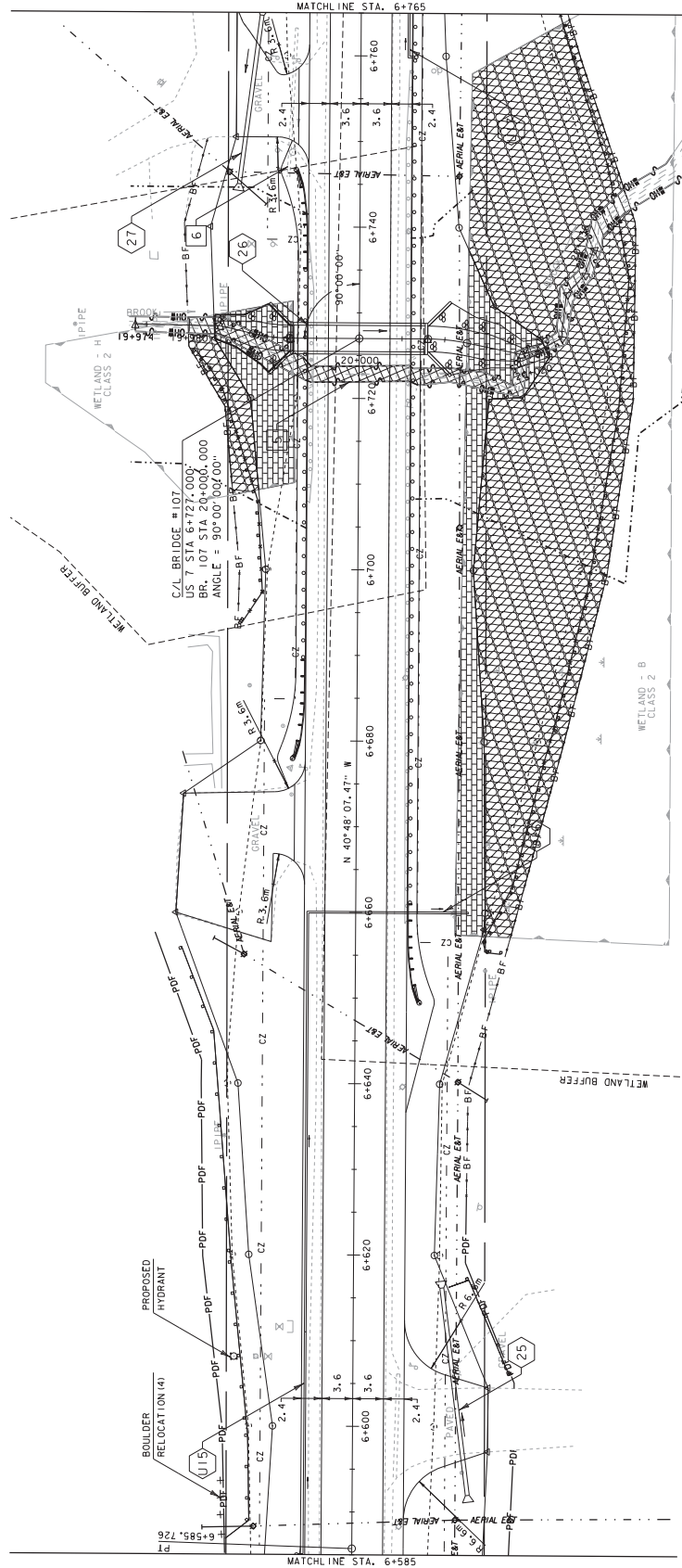




LEGEND

- PERMANENT OHW IMPACT - 842.07 SF
- TEMPORARY OHW IMPACT - 464.25 SF
- PERMANENT WETLAND IMPACT - 3637.34 SF
- TEMPORARY WETLAND IMPACT - 14822.78 SF

TOTAL IMPACT AREA - 19766.44 SF



200 mm UNDERDRAIN

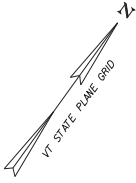
NEW DRAINAGE

EXISTING DRAINAGE

- 5 STA 6+722.7 C/L
REMOVAL OF EXISTING STRUCTURE
- 6 STA 6+745.8 - STA 6+763.2 LT
REMOVE EXISTING 310 mm COMP
- 25 STA 6+591.9, 13.5M - STA 6+616.2, 10.3M RT
NEW 450 mm x 24.4 M CPEP
REMOVE EXISTING DRIVE PIPE
- 26 STA 6+727.0 C/L
NEW 3.05 M x 2.13 M PRECAST RCB
WITH WING WALLS (SEE BRIDGE DETAILS)
STONE FILL, TYPE E2 AT INLET
STONE FILL, TYPE E2 AT OUTLET
- 27 STA 6+745.0, 14.1M - STA 6+764.7, 11.6M LT
NEW 450 mm x 19.9 M CPEP
- 15 STA 6+585.0 - STA 6+660.0 LT
NEW 200 mm x 75 M UNDERDRAIN
W/FLUSHING BASIN AT STA 6+585.0
- 16 STA 6+660.0 LT - STA 6+660.0 RT
NEW 200 mm x 18 M UNDERDRAIN
CARRIER PIPE
- 17 STA 6+760.0 - STA 6+945.0 RT
NEW 200 mm x 185 M UNDERDRAIN
W/FLUSHING BASIN AT STA 6+760.0

PROJECT NAME: PITTSFORD
PROJECT NUMBER: NH 019-3(491)
FILE NAME: 050008.DESIGN/050008.nwdgn PLOT DATE: 05-JUN-2009
PROJECT LEADER: B. MARTIN DRAWN BY: A. KEMPTON
DESIGNED BY: A. KEMPTON CHECKED BY: J. FLOOD
PLAN SHEET 8 SHEET 6 OF 44

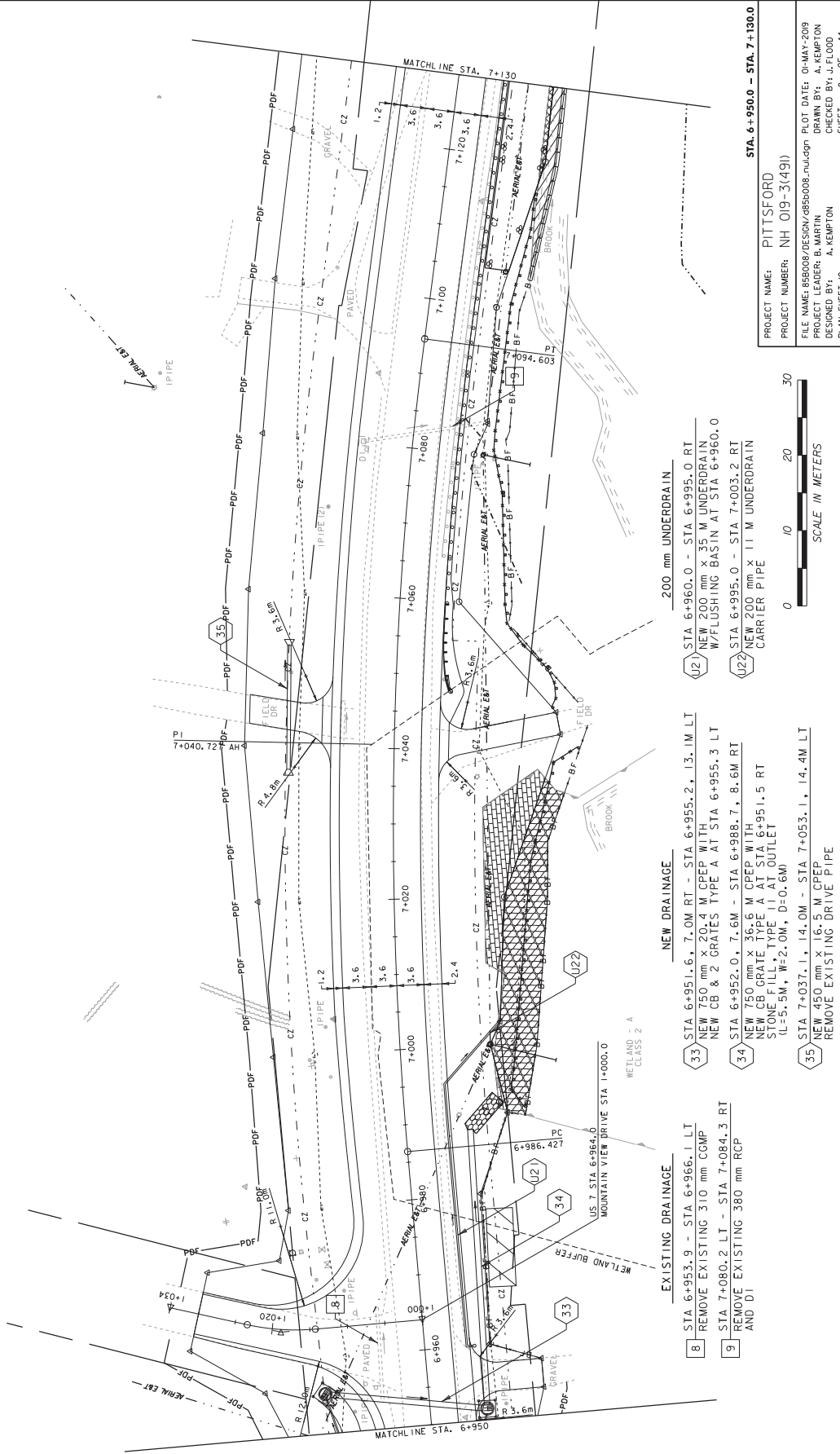
STA. 6+585.0 - STA. 6+765.0



LEGEND

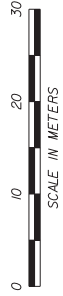
- PERMANENT OHW IMPACT - 66.09 SF
- TEMPORARY OHW IMPACT - 343.69 SF
- PERMANENT WETLAND IMPACT - 111.71 SF
- TEMPORARY WETLAND IMPACT - 2161.84 SF

TOTAL IMPACT AREA - 3683.33 SF

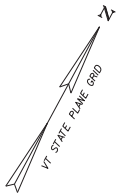


PROJECT NAME: PITTSFORD
 PROJECT NUMBER: NH 019-3(491)
 FILE NAME: 050008.DESIGN/050008.nwdgn
 PROJECT LEADER: B. MARTIN
 DESIGNED BY: A. KEMPTON
 CHECKED BY: J. FLOOD
 PLAN SHEET 10
 SHEET 8 OF 44

STA. 6+950.0 - STA. 7+130.0



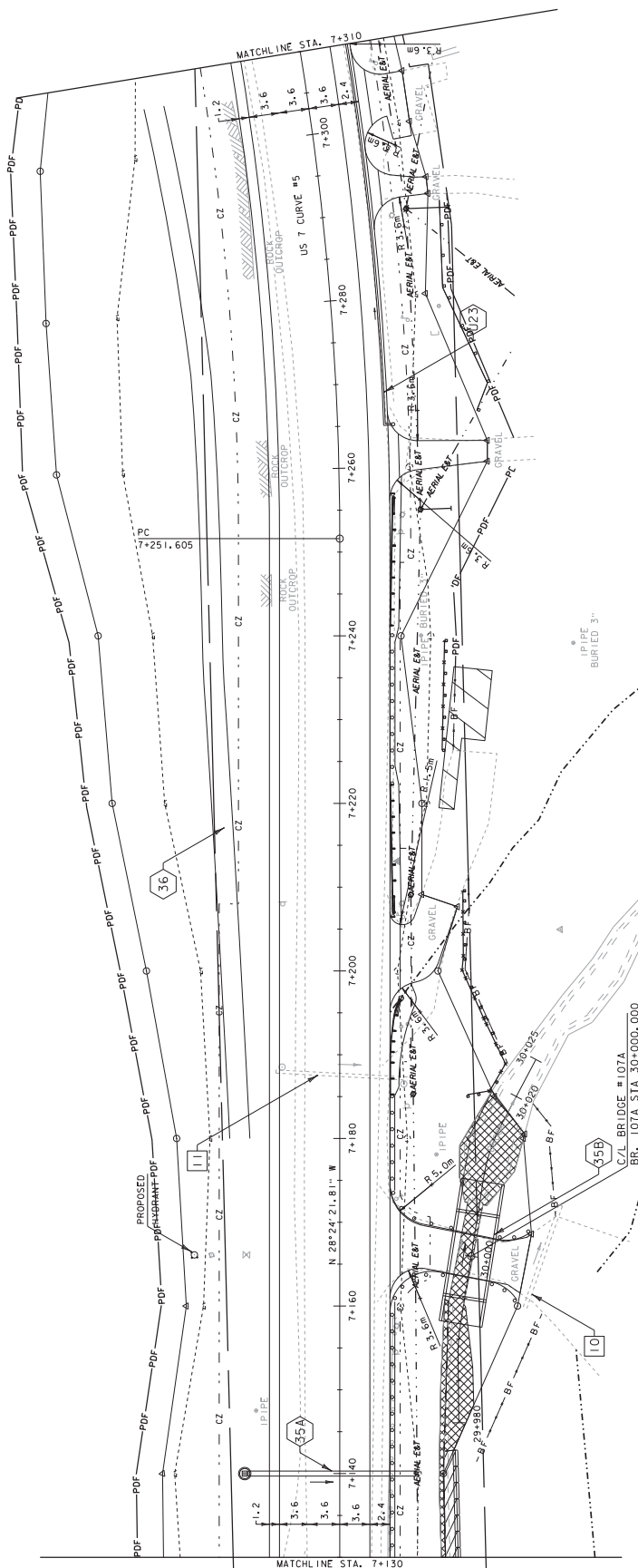
SCALE IN METERS



LEGEND

- PERMANENT OHW IMPACT - 1644.95 SF
- TEMPORARY OHW IMPACT - 20.07 SF
- PERMANENT WETLAND IMPACT - 0 SF
- TEMPORARY WETLAND IMPACT - 0 SF

TOTAL IMPACT AREA - 1846.02 SF



EXISTING DRAINAGE

- 10 STA 7+156.7 - STA 7+172.0 RT
RETAIN EXISTING 460 mm COMP
- 11 STA 7+187.6 C/L
REMOVE EXISTING 380 mm RCP
- 200 mm UNDERDRAIN
- 123 STA 7+265.0 - STA 7+475.0 RT
NEW 200 mm x 213 M UNDERDRAIN
W/FLUSHING BASIN AT STA 7+265.0

NEW DRAINAGE

- 35A STA 7+140.0, 10.9M LT - STA 7+140.0, 9.1M RT
NEW 600 mm x 20.0 M CPEP WITH
NEW CB GRATE TYPE A AT STA 7+140.0 LT
- 35B STA 7+157.5 - STA 7+175.3 RT
NEW 4.57 M x 2.44 M PRECAST RCB
W/ MITERED WING WALLS (SEE BRIDGE DETAILS)
STONE FILL, TYPE E3 AT INLET & OUTLET
REMOVE EXISTING 1.83 M PIPE
- 36 STA 7+180.0 - STA 7+306.0 LT
CONSTRUCT GRASS-TREATMENT SWALE
WITH BERM, SEE DETAIL SHEETS

STA. 7+130.0 - STA. 7+310.0

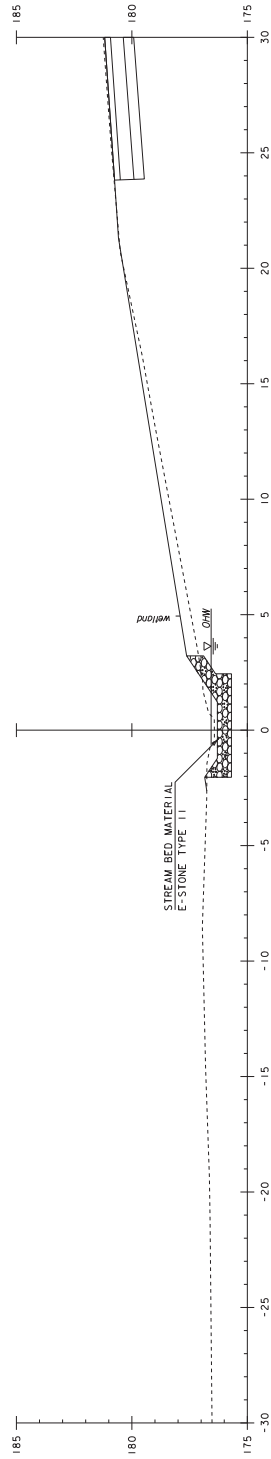
PROJECT NAME: PITTSFORD
PROJECT NUMBER: NH 019-3(491)

FILE NAME: 050008.DESIGN/050008.mxd
PLOT DATE: 05-JUN-2019
PROJECT LEADER: B. MARTIN
DESIGNED BY: A. KEMPTON
CHECKED BY: J. FLOOD
PLAN SHEET # 9 OF 44

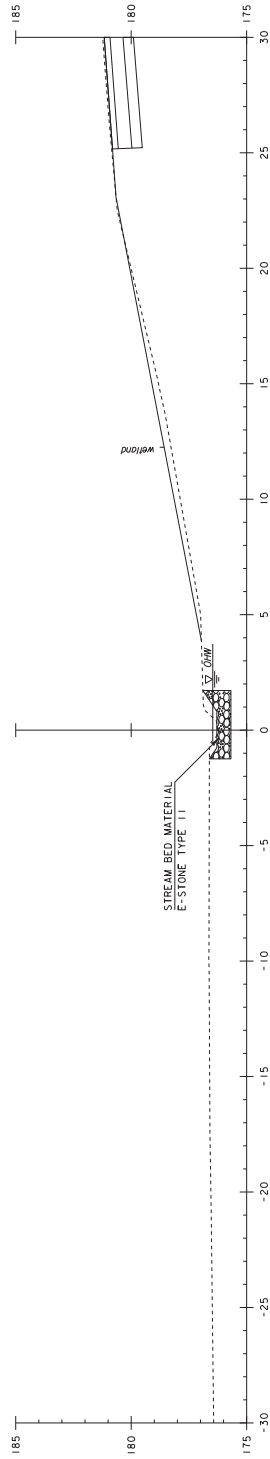




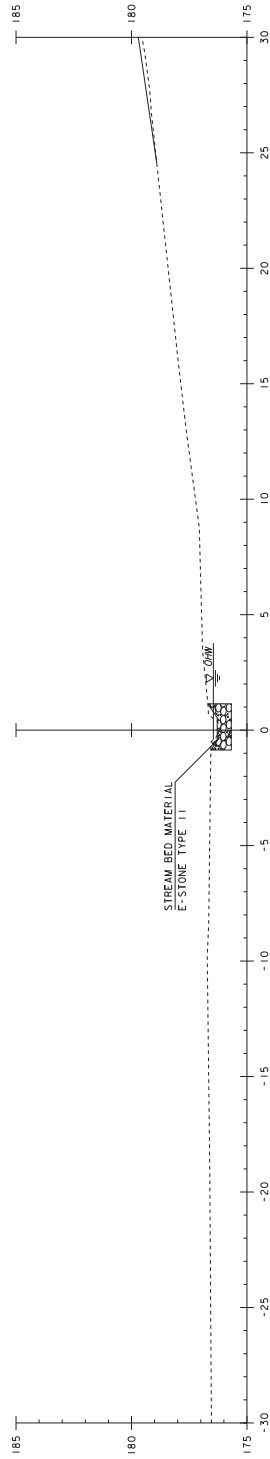
NOTE:
CHANNEL SECTIONS WERE TAKEN FROM THE CHANNEL ALIGNMENT, SEE DETAIL SHEETS



9+984.00



9+981.00

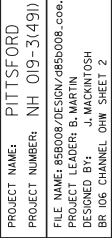


STA. 9+980 TO STA. 9+984

9+979.64
BEGIN CHANNEL EXCAVATION

PROJECT NAME: PITTSFORD
PROJECT NUMBER: NH 09-3(491)

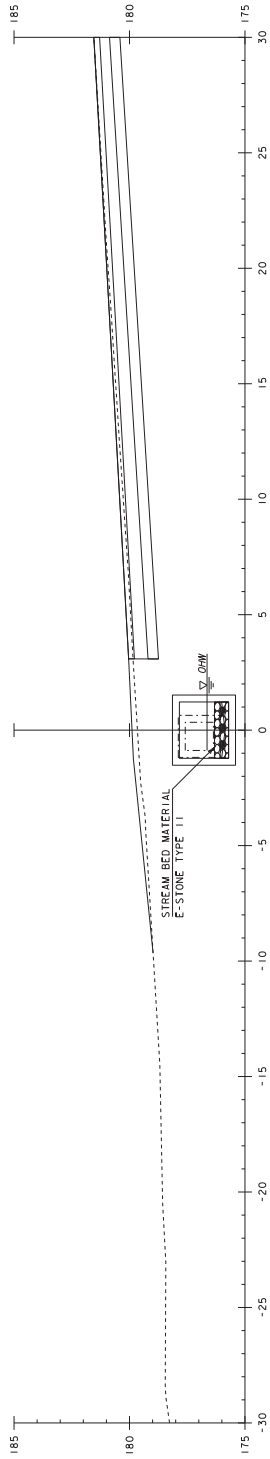
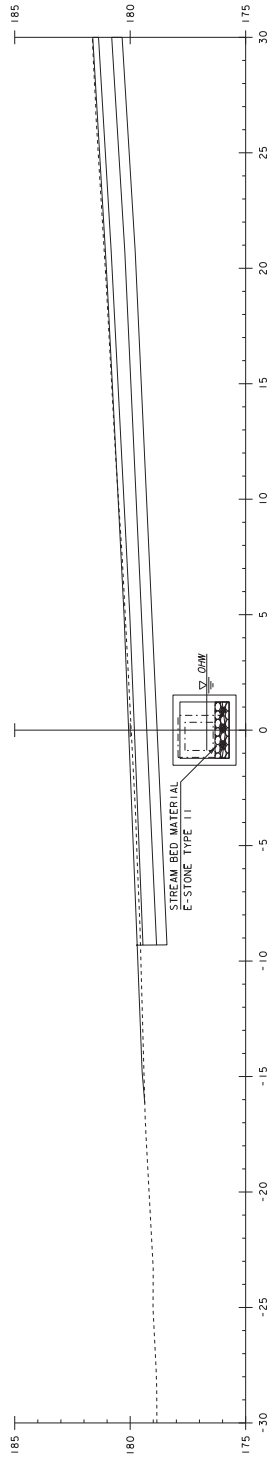
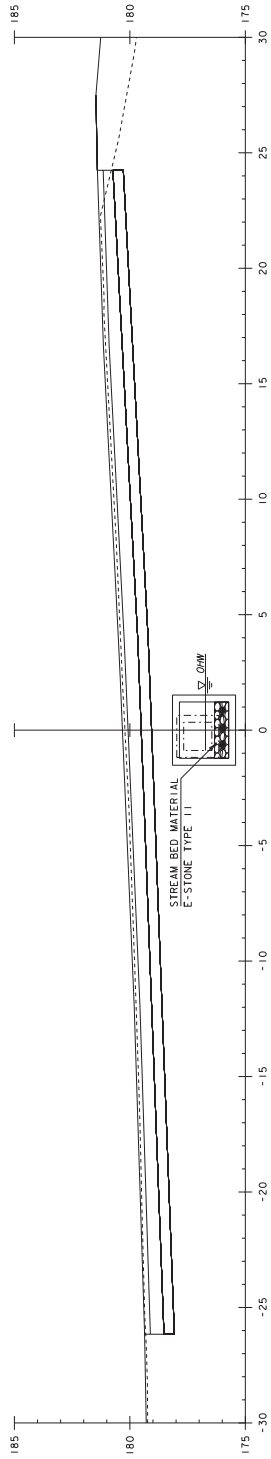
FILE NAME: 85B008/DESIGN/85B008.coe.dgn PLOT DATE: 02-APR-2019
PROJECT LEADER: B. MARTIN DRAWN BY: J. MACKINTOSH
DESIGNED BY: J. MACKINTOSH CHECKED BY: A. KEMPTON
BR 06 CHANNEL OHW SHEET 1 SHEET 1 OF 35



NOTE: CHANNEL SECTIONS WERE TAKEN FROM THE CHANNEL ALIGNMENT, SEE DETAIL SHEETS



NOTE:
CHANNEL SECTIONS WERE TAKEN FROM THE CHANNEL ALIGNMENT, SEE DETAIL SHEETS



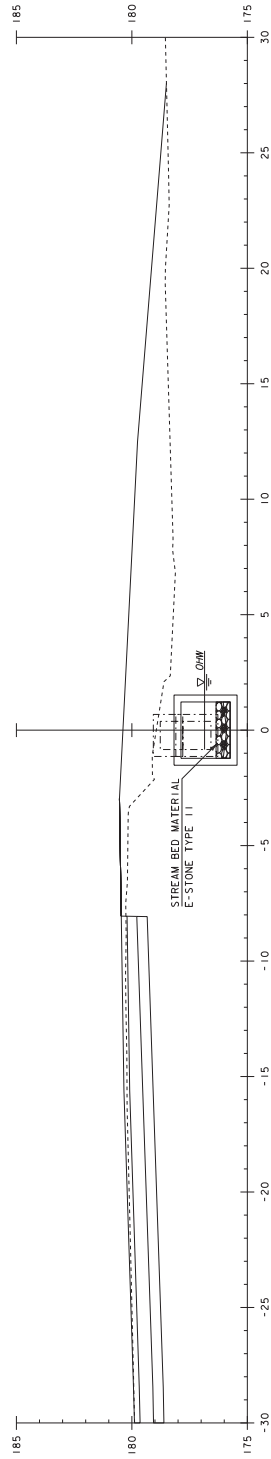
STA. 9+993 TO STA. 9+999

PROJECT NAME: PITTSFORD
PROJECT NUMBER: NH 09-3(491)

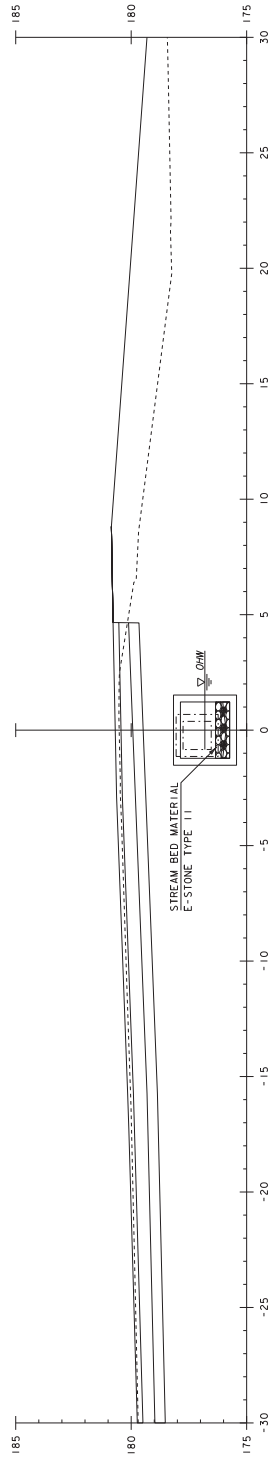
FILE NAME: 85B008/DESIGN/85B008.coe.dgn PLOT DATE: 02-APR-2019
PROJECT LEADER: B. MARTIN DRAWN BY: J. MACKINTOSH
DESIGNED BY: J. MACKINTOSH CHECKED BY: A. KEMPTON
BR 06 CHANNEL OHW SHEET 3 SHEET 3 OF 35



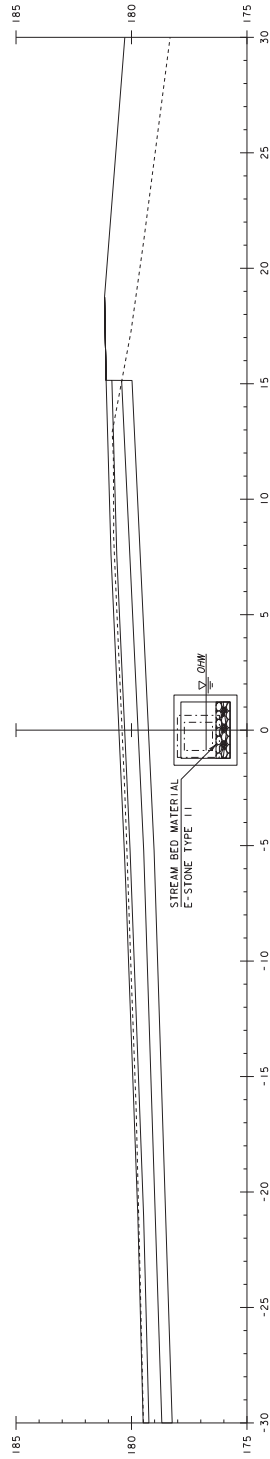
NOTE:
CHANNEL SECTIONS WERE TAKEN FROM THE CHANNEL ALIGNMENT, SEE DETAIL SHEETS



10+008.00



10+005.00



10+002.00

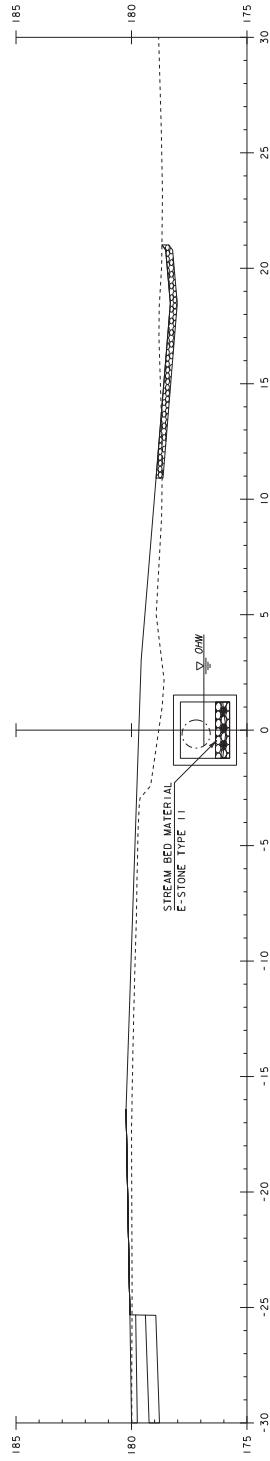
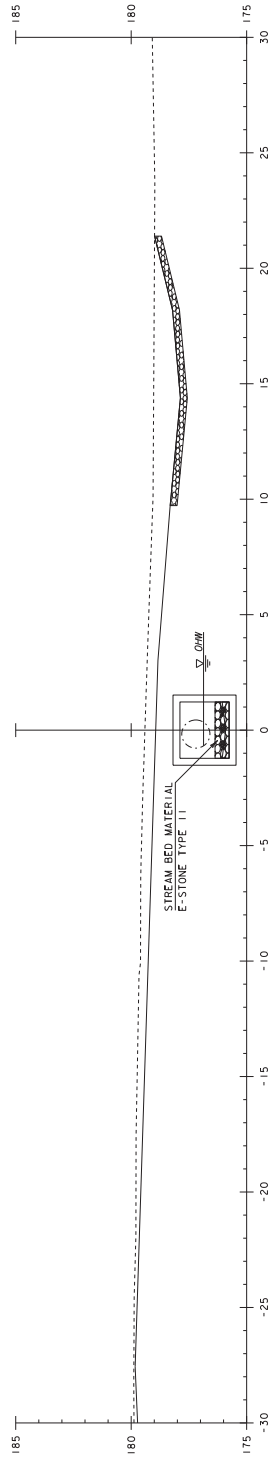
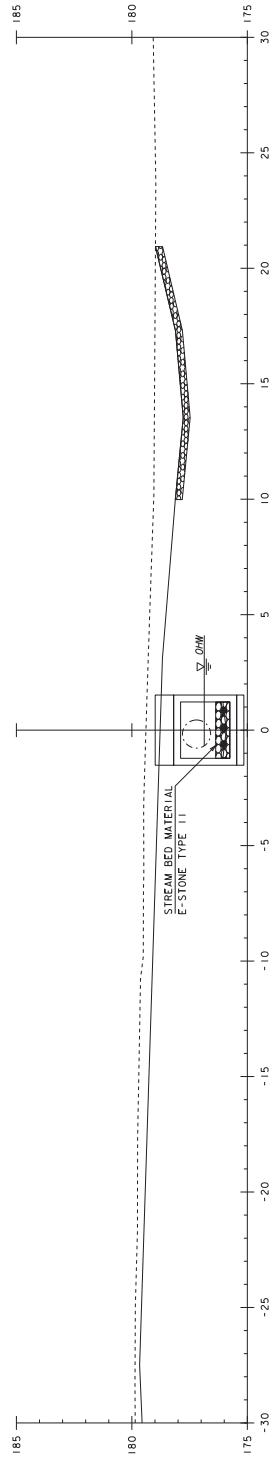
[STA. 10+002 TO STA. 10+008]

PROJECT NAME: PITTSFORD
PROJECT NUMBER: NH 09-3(491)

FILE NAME: 858008/DESIGN/858008.coe.dgn PLOT DATE: 02-APR-2019
PROJECT LEADER: B. MARTIN DRAWN BY: J. MACKINTOSH
DESIGNED BY: J. MACKINTOSH CHECKED BY: A. KEMPTON
BR 06 CHANNEL OHW SHEET 4 OF 35



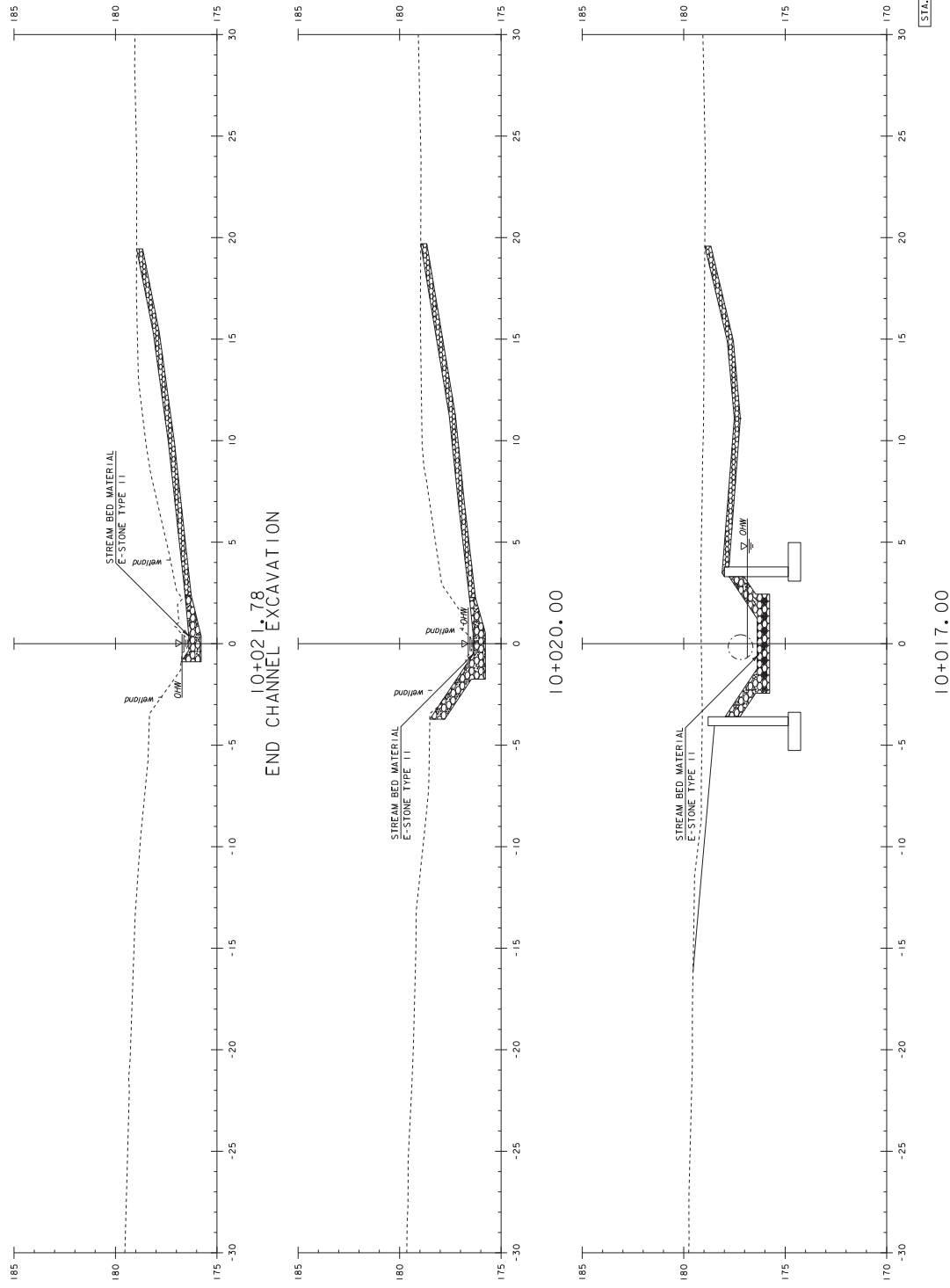
NOTE:
CHANNEL SECTIONS WERE TAKEN FROM THE CHANNEL ALIGNMENT, SEE DETAIL SHEETS



[STA. 10+011 TO STA. 10+015]

PROJECT NAME: PITTSFORD
PROJECT NUMBER: NH 09-3(491)

FILE NAME: 85B008/DESIGN/85B008.coe.dgn PLOT DATE: 02-APR-2019
PROJECT LEADER: B. MARTIN DRAWN BY: J. MACKINTOSH
DESIGNED BY: J. MACKINTOSH CHECKED BY: A. KEMPTON
BR 06 CHANNEL OHW SHEET 5 SHEET 5 OF 35



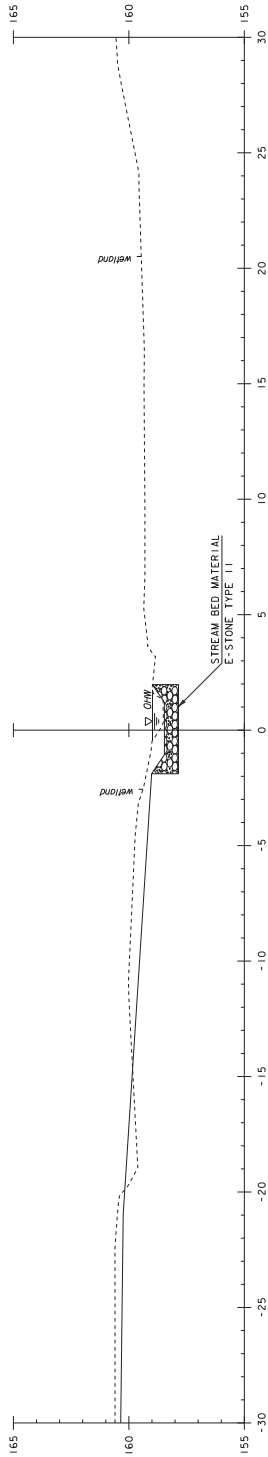
NOTE: CHANNEL SECTIONS WERE TAKEN FROM THE CHANNEL ALIGNMENT, SEE DETAIL SHEETS

PROJECT NAME:	PITTSFORD
PROJECT NUMBER:	NH 019-3(491)

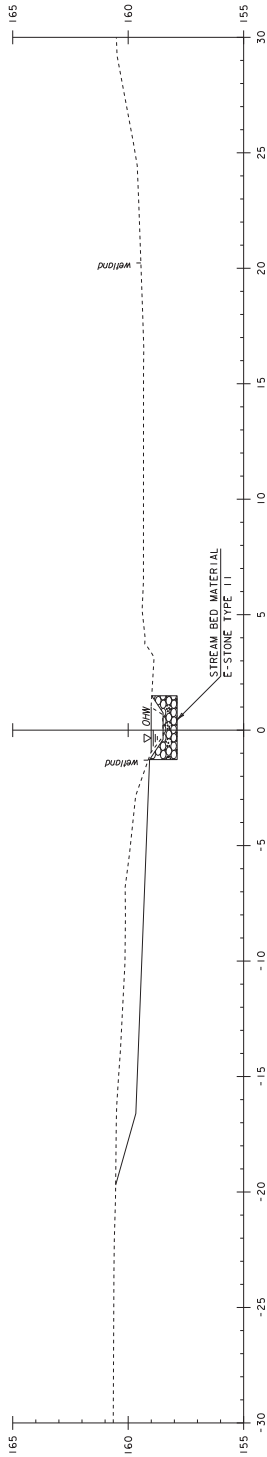
FILE NAME: 858008/DESIGN/d85b008_coe.dgn PLOT DATE: 12-APR-2019
PROJECT LEADER: B. MARTIN DRAWN BY: J. MACKINTOSH
DESIGNED BY: J. MACKINTOSH CHECKED BY: A. KEMPTON
BR 106 CHANNEL OHW SHEET 6 SHEET 6 OF 35



NOTE:
CHANNEL SECTIONS WERE TAKEN FROM THE CHANNEL ALIGNMENT, SEE DETAIL SHEETS



19+986.00



19+983.00
BEGIN CHANNEL WORK

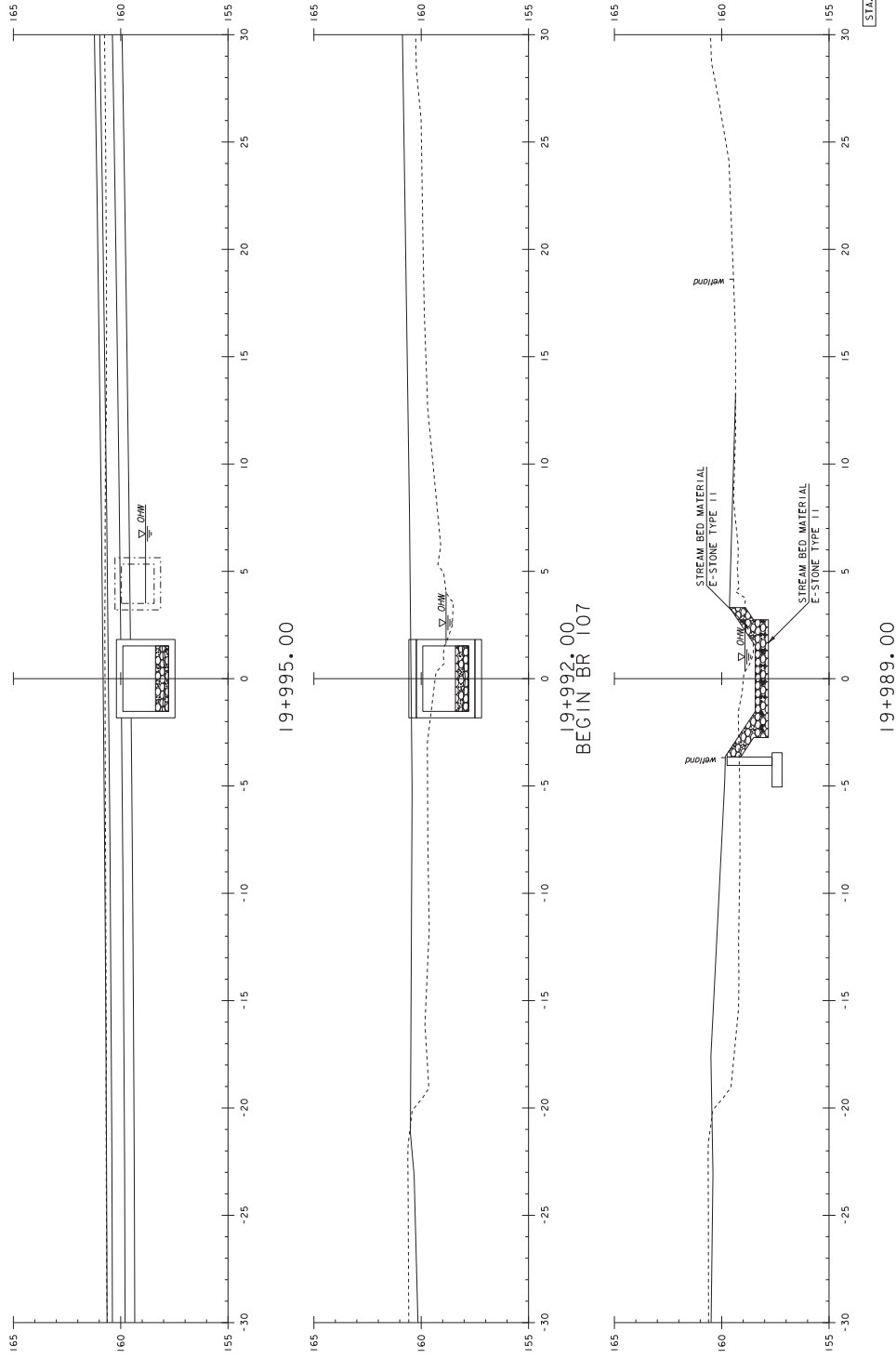
STA. 19+983 TO STA. 19+986

PROJECT NAME: PITTSFORD
PROJECT NUMBER: NH 09-3(491)

FILE NAME: 85B008/DESIGN/85B008.coe.dgn PLOT DATE: 02-APR-2019
PROJECT LEADER: B. MARTIN DRAWN BY: J. MACKINTOSH
DESIGNED BY: J. MACKINTOSH CHECKED BY: A. KEMPTON
BR 107 CHANNEL 09# SHEET 1 SHEET 7 OF 35



NOTE:
CHANNEL SECTIONS WERE TAKEN FROM THE CHANNEL ALIGNMENT, SEE DETAIL SHEETS



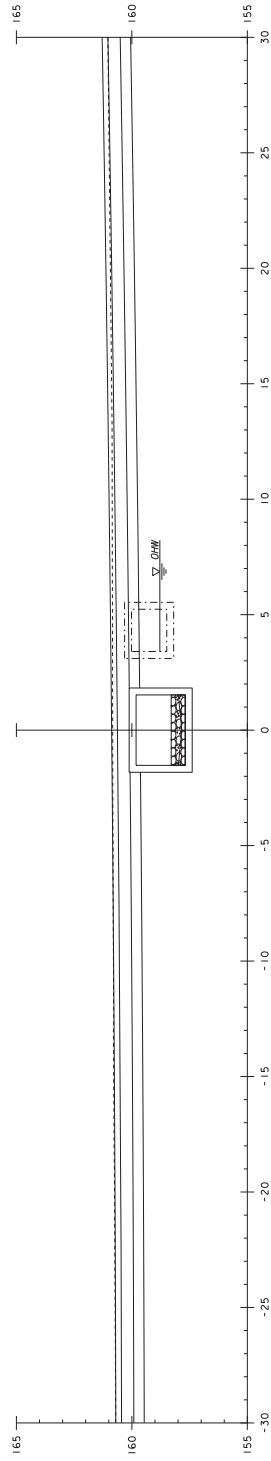
[STA. 19+989 TO STA. 19+995]

PROJECT NAME: PITTSFORD
PROJECT NUMBER: NH 09-3(491)

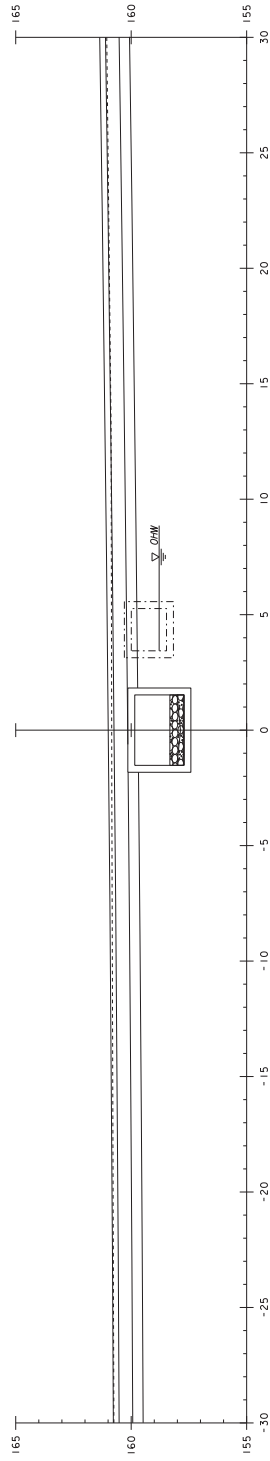
FILE NAME: 85B008/DESIGN/85B008.coe.dgn PLOT DATE: 02-APR-2019
PROJECT LEADER: B. MARTIN DRAWN BY: J. MACKINTOSH
DESIGNED BY: J. MACKINTOSH CHECKED BY: A. KEMPTON
BR 107 CHANNEL OHW SHEET 2 SHEET 8 OF 35



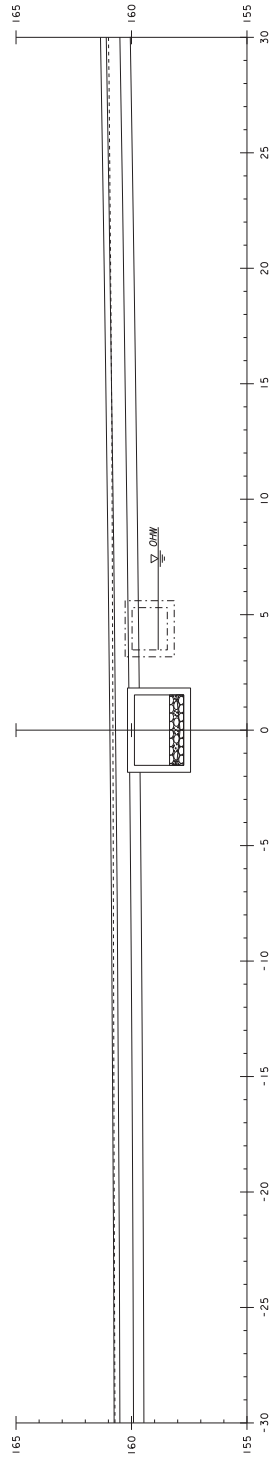
NOTE:
CHANNEL SECTIONS WERE TAKEN FROM THE CHANNEL ALIGNMENT, SEE DETAIL SHEETS



20+004.00



20+001.00



19+998.00

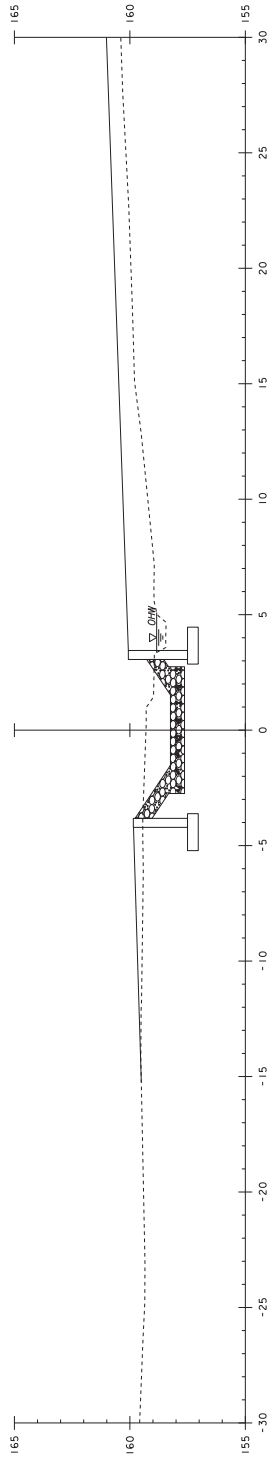
[STA. 19+998 TO STA. 20+004]

PROJECT NAME: PITTSFORD
PROJECT NUMBER: NH 019-3(491)

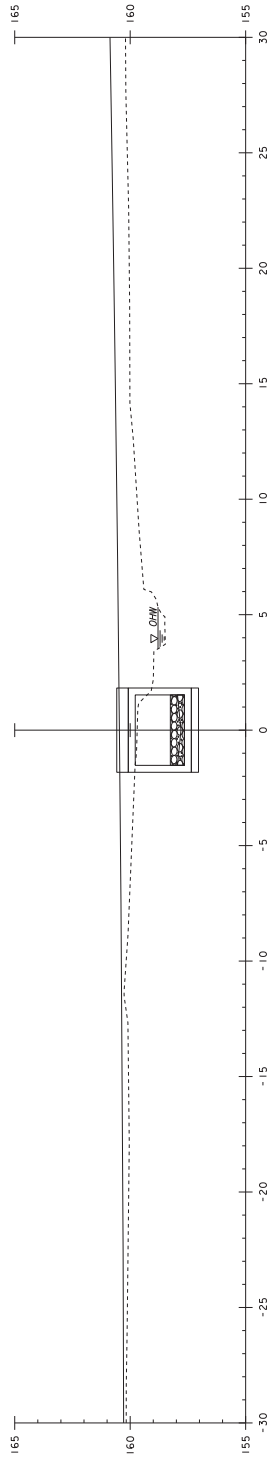
FILE NAME: 858008/DESIGN/858008.coe.dgn PLOT DATE: 02-APR-2019
PROJECT LEADER: B. MARTIN DRAWN BY: J. MACKINTOSH
DESIGNED BY: J. MACKINTOSH CHECKED BY: A. KEMPTON
BR 107 CHANNEL 01# SHEET 3 SHEET 9 OF 35



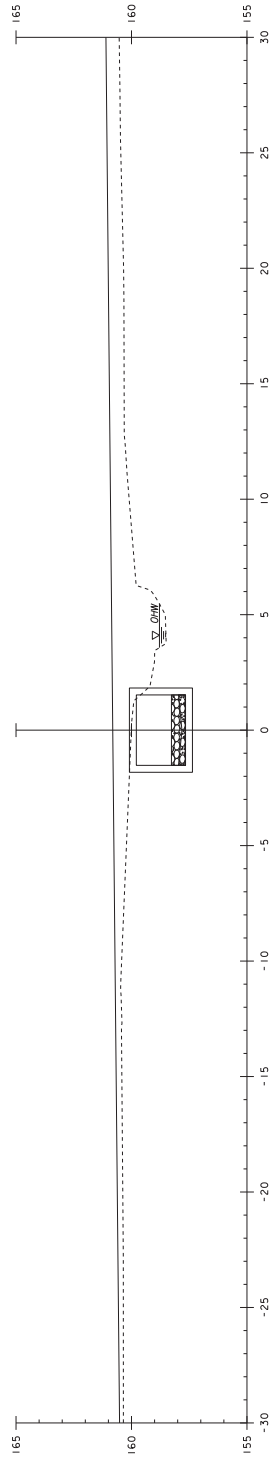
NOTE:
CHANNEL SECTIONS WERE TAKEN FROM THE CHANNEL ALIGNMENT, SEE DETAIL SHEETS



20+010.00



20+008.00
END BR 107



20+007.00

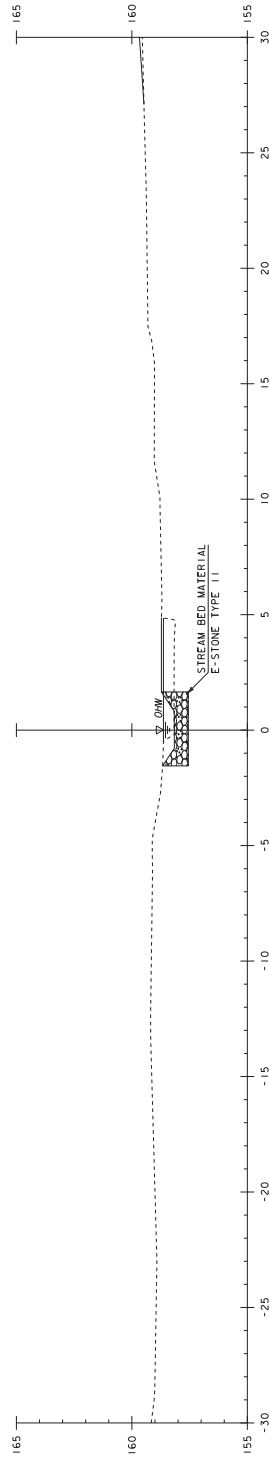
[STA. 20+007 TO STA. 20+010]

PROJECT NAME: PITTSFORD
PROJECT NUMBER: NH 019-3(491)

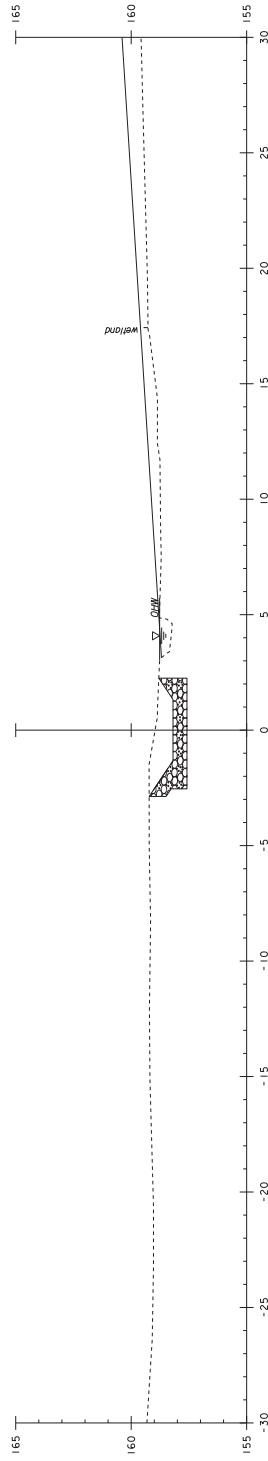
FILE NAME: 85B008/DESIGN/85B008.coe.dgn PLOT DATE: 02-APR-2019
PROJECT LEADER: B. MARTIN DRAWN BY: J. MACKINTOSH
DESIGNED BY: J. MACKINTOSH CHECKED BY: A. KEMPTON
BR 107 CHANNEL 01# SHEET 4 OF 35



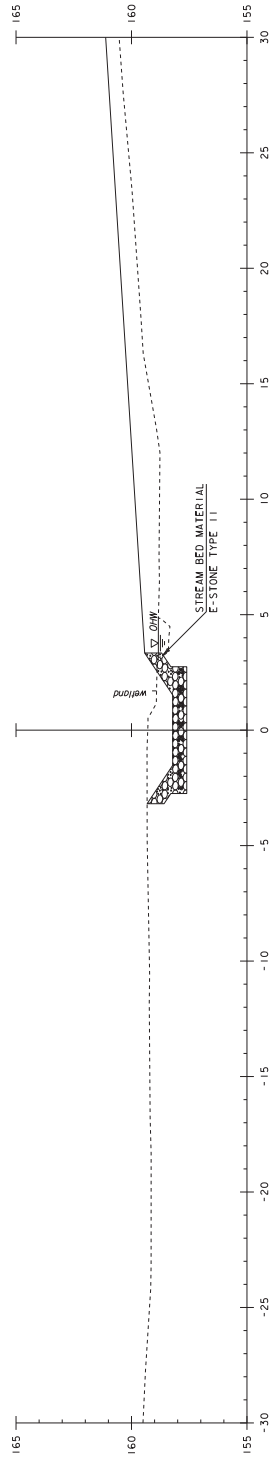
NOTE:
CHANNEL SECTIONS WERE TAKEN FROM THE CHANNEL ALIGNMENT, SEE DETAIL SHEETS



20+019.00



20+016.00



20+013.00

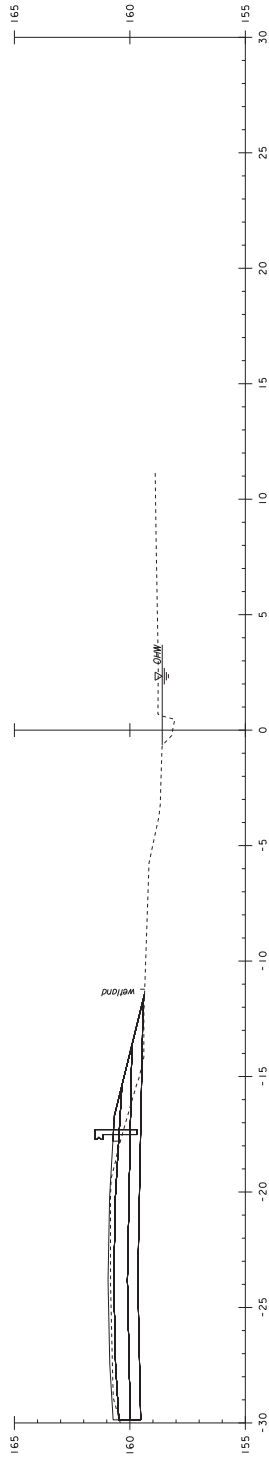
[STA. 20+013 TO STA. 20+019]

PROJECT NAME: PITTSFORD
PROJECT NUMBER: NH 019-3(491)

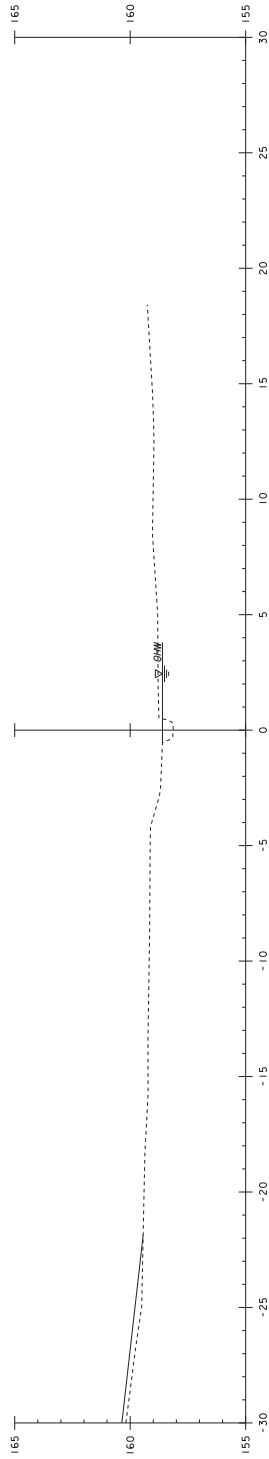
FILE NAME: 858008/DESIGN/858008.coe.dgn PLOT DATE: 02-APR-2019
PROJECT LEADER: B. MARTIN DRAWN BY: J. MCKINTOSH
DESIGNED BY: J. MCKINTOSH CHECKED BY: A. KEMPTON
BR 107 CHANNEL 01# SHEET 5 SHEET 11 OF 35



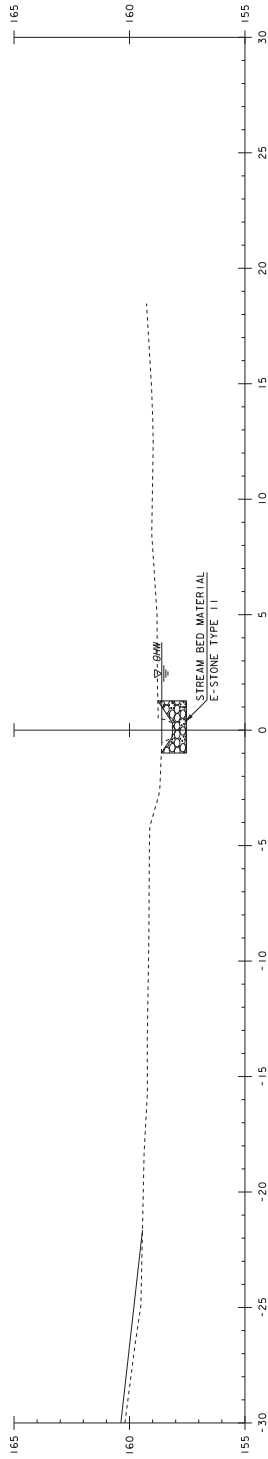
NOTE:
CHANNEL SECTIONS WERE TAKEN FROM THE CHANNEL ALIGNMENT, SEE DETAIL SHEETS



20+025.00



20+022.00

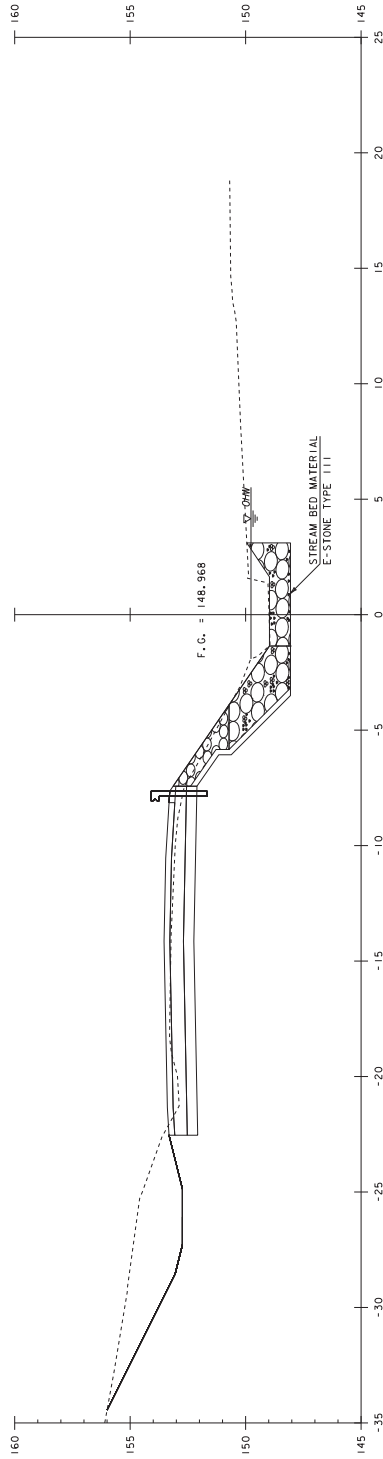


20+021.94
END CHANNEL EXCAVATION

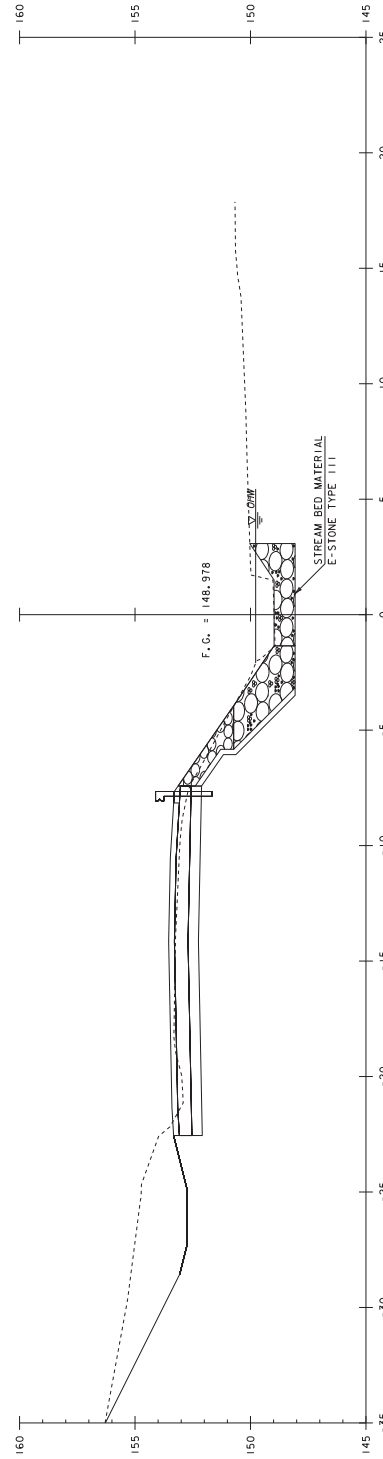
[STA. 20+022 TO STA. 20+025]

PROJECT NAME: PITTSFORD
PROJECT NUMBER: NH 09-3(491)

FILE NAME: 85B008/DESIGN/85B008.coe.dgn PLOT DATE: 12-APR-2019
PROJECT LEADER: B. MARTIN DRAWN BY: J. MACKINTOSH
DESIGNED BY: J. MACKINTOSH CHECKED BY: A. KEMPTON
BR 107 CHANNEL 0# SHEET 6 SHEET 12 OF 35



29+988.00

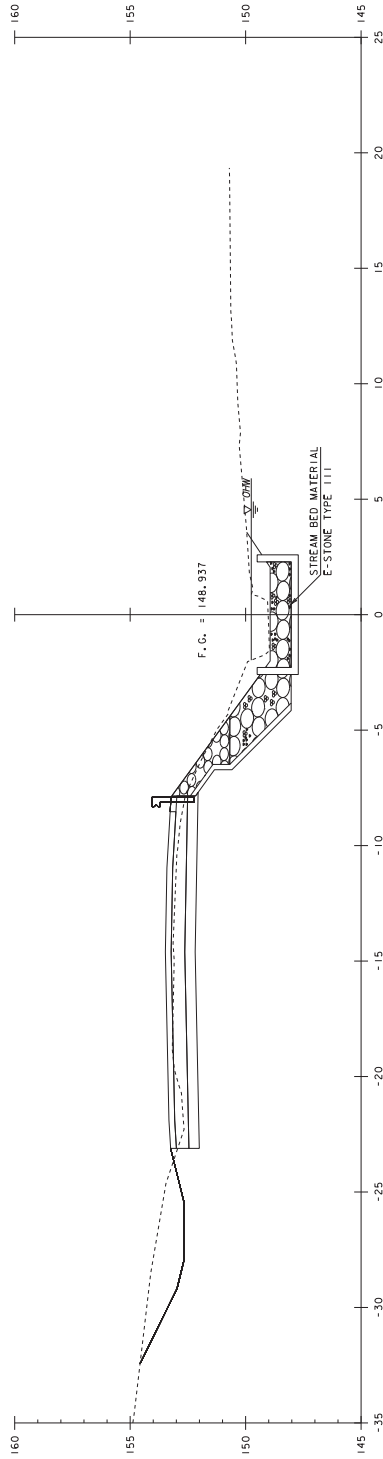


29+986.72
BEGIN CHANNEL WORK

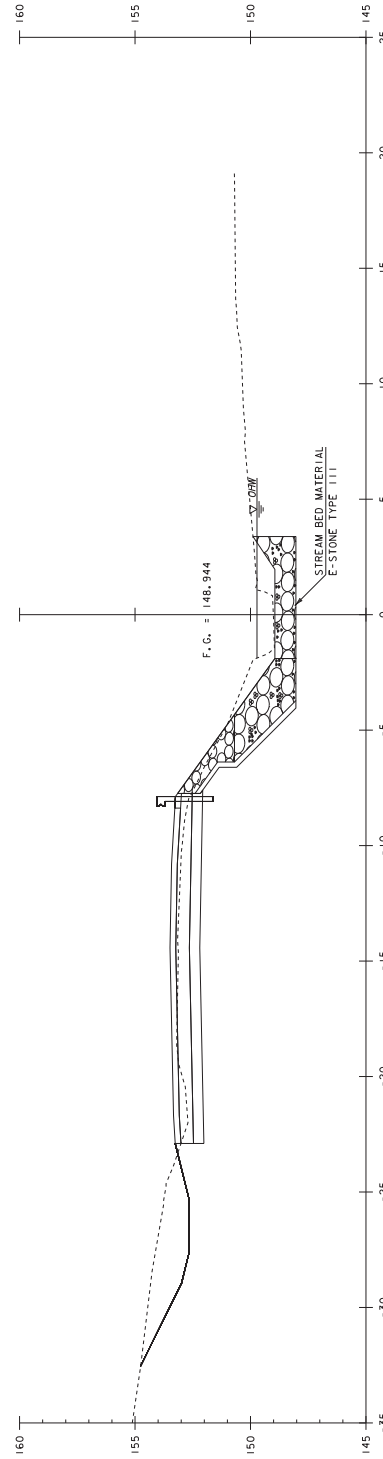
PROJECT NAME: PITTSFORD
PROJECT NUMBER: NH 09-3(491)

FILE NAME: 858008/DESIGN/485008.coe.dgn PLOT DATE: 02-APR-2019
PROJECT LEADER: B. MARTIN DRAWN BY: J. MACKINTOSH
DESIGNED BY: J. MACKINTOSH CHECKED BY: A. KEMPTON
BR 107A CHANNEL OHW SHEET 1 SHEET 13 OF 35

STA. 29+987 TO STA. 29+988



29+991.82
BEGIN CULVERT 35B

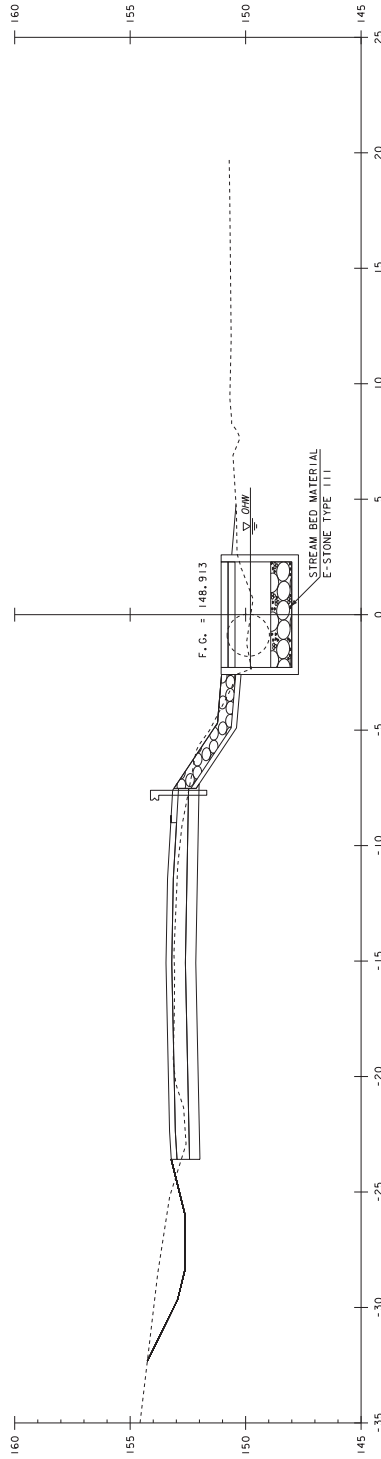


29+991.00

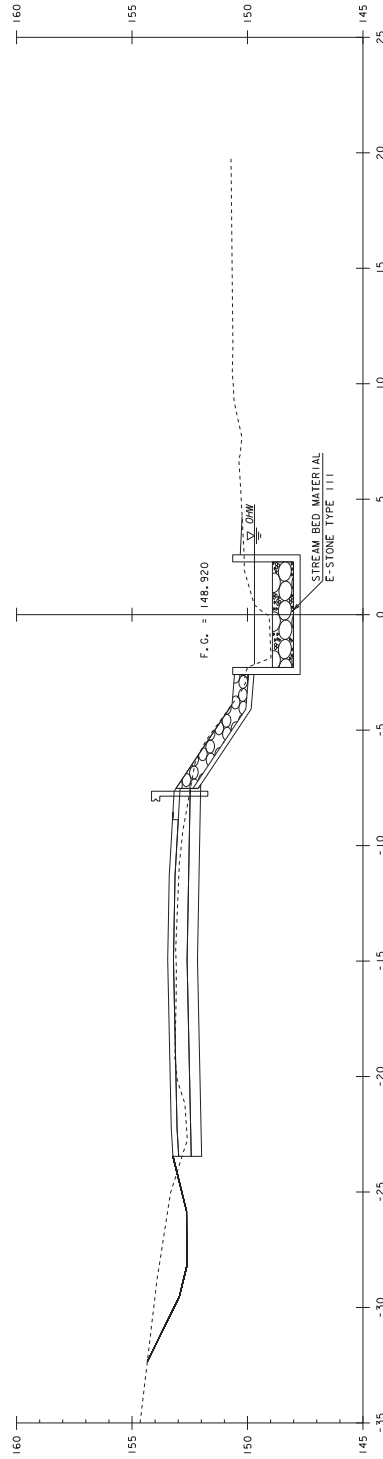
PROJECT NAME: PITTSFORD
PROJECT NUMBER: NH 09-3(491)

FILE NAME: 85B008/DESIGN/485B008.coe.dgn PLOT DATE: 02-APR-2019
PROJECT LEADER: B. MARTIN DRAWN BY: J. MACKINTOSH
DESIGNED BY: J. MACKINTOSH CHECKED BY: A. KEMPTON
BR 107A CHANNEL OHW SHEET 2 SHEET 14 OF 35

STA. 29+991 TO STA. 29+992



29+994.82
CULVERT 35B INLET HEADWALL

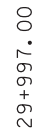


29+994.00

PROJECT NAME: PITTSFORD
PROJECT NUMBER: NH 09-3(491)

FILE NAME: 85B008/DESIGN/485B008.coe.dgn PLOT DATE: 02-APR-2019
PROJECT LEADER: B. MARTIN DRAWN BY: J. MACKINTOSH
DESIGNED BY: J. MACKINTOSH CHECKED BY: A. KEMPTON
BR 07A CHANNEL OHW SHEET 3 SHEET 15 OF 35

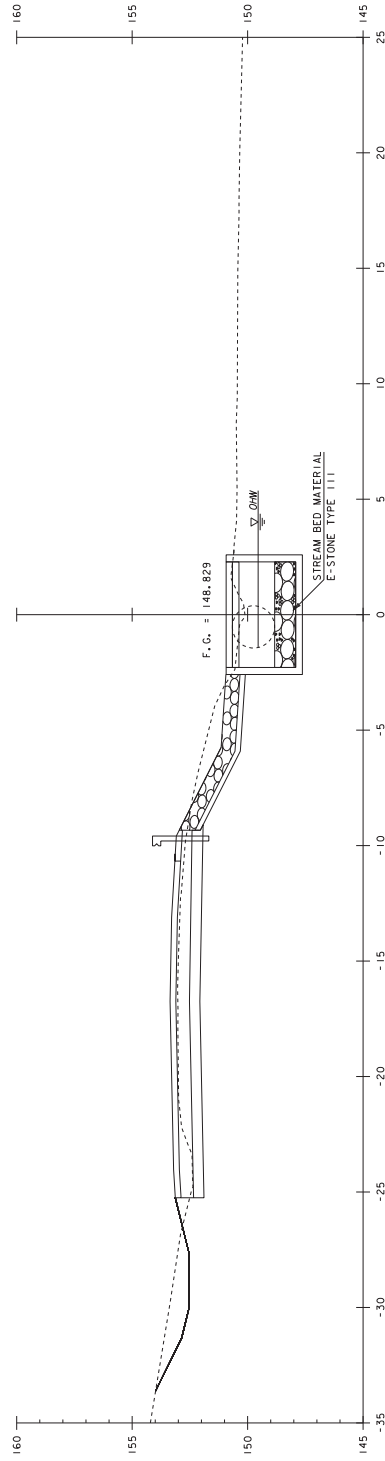
STA. 29+994 TO STA. 29+995



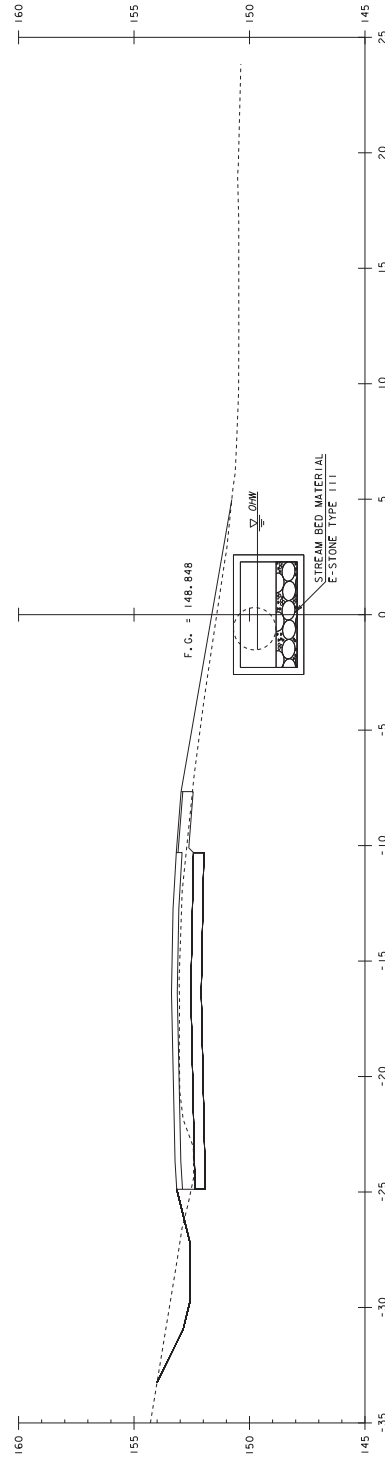
PROJECT NAME: PITTSFORD
PROJECT NUMBER: NH 019-3(491)

FILE NAME: 85B008/DESIGN/d85b008_coe.dgn PLOT DATE: 12-APR-2019
PROJECT LEADER: B. MARTIN DRAWN BY: J. MACKINTOSH
DESIGNED BY: J. MACKINTOSH CHECKED BY: A. KEMPTON
BR 107A CHANNEL OHW SHEET 4 SHEET 16 OF 35

STA. 29+997 TO STA. 30+000



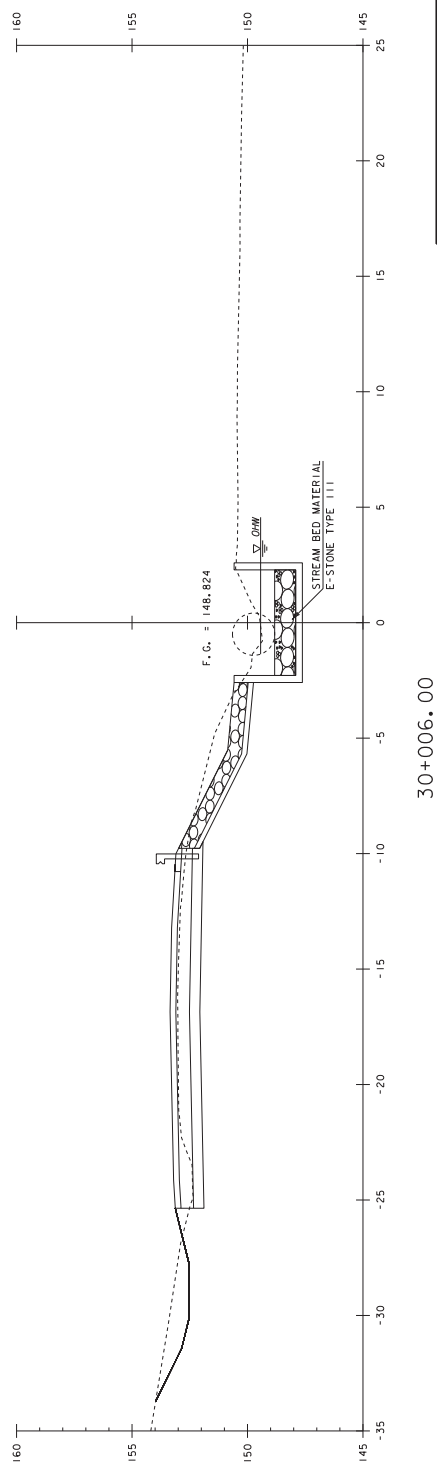
CULVERT 35B OUTLET HEADWALL



30+003.00

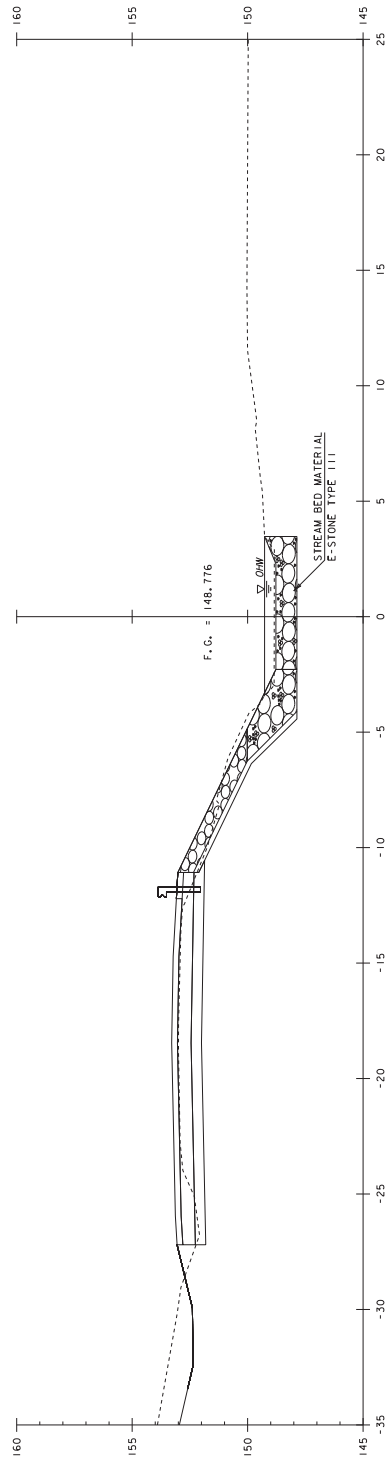
PROJECT NAME:	PITTSFORD
PROJECT NUMBER:	NH 019-3(491)
FILE NAME:	85B008/DESIGN/485B008.coe.dgn
DESIGNED BY:	J. MACKINTOSH
CHECKED BY:	A. KEMPTON
DRAWN BY:	J. MACKINTOSH
SHEET	17 OF 35

STA. 30+003 TO STA. 30+005

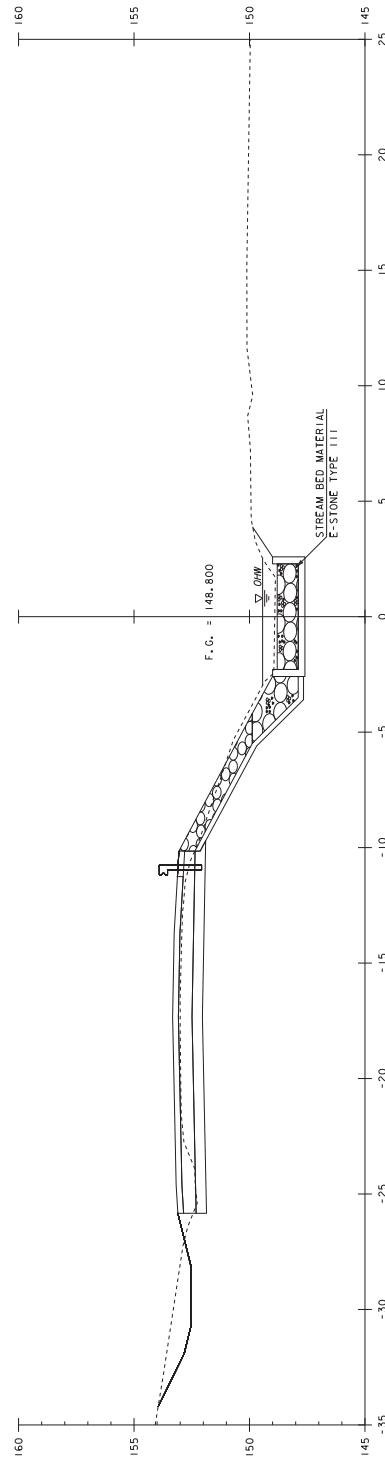


FILE NAME: 858008/DESIGN/d85b008_coe.dgn PLOT DATE: 12-APR-2019
PROJECT LEADER: B. MARTIN
DESIGNED BY: J. MACKINTOSH
DRAWN BY: J. MACKINTOSH
CHECKED BY: A. KEMPTON
BR 107A CHANNEL OHW SHEET 6
SHEET 18 OF 35

STA. 30+006 TO STA. 30+009



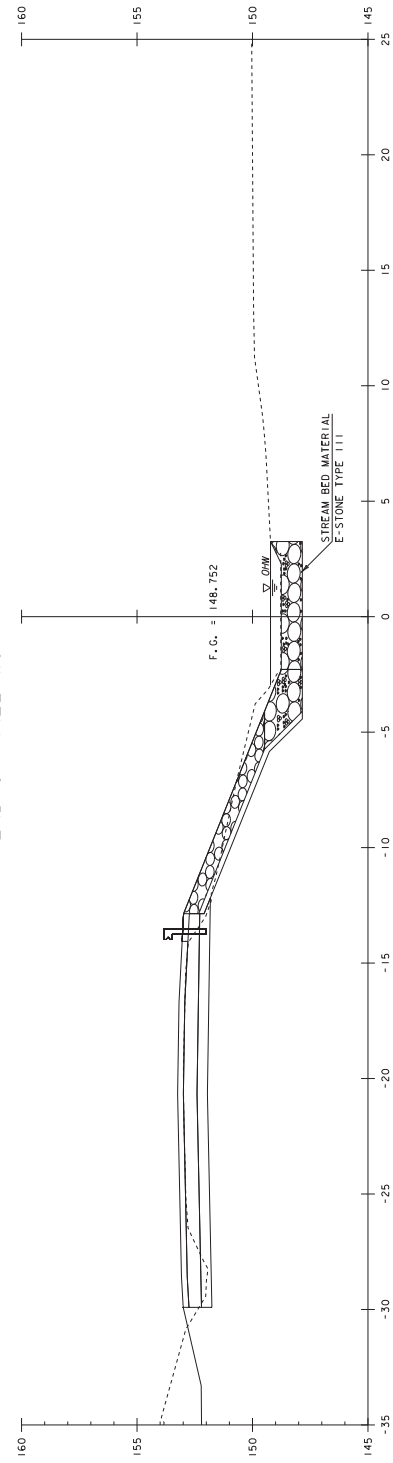
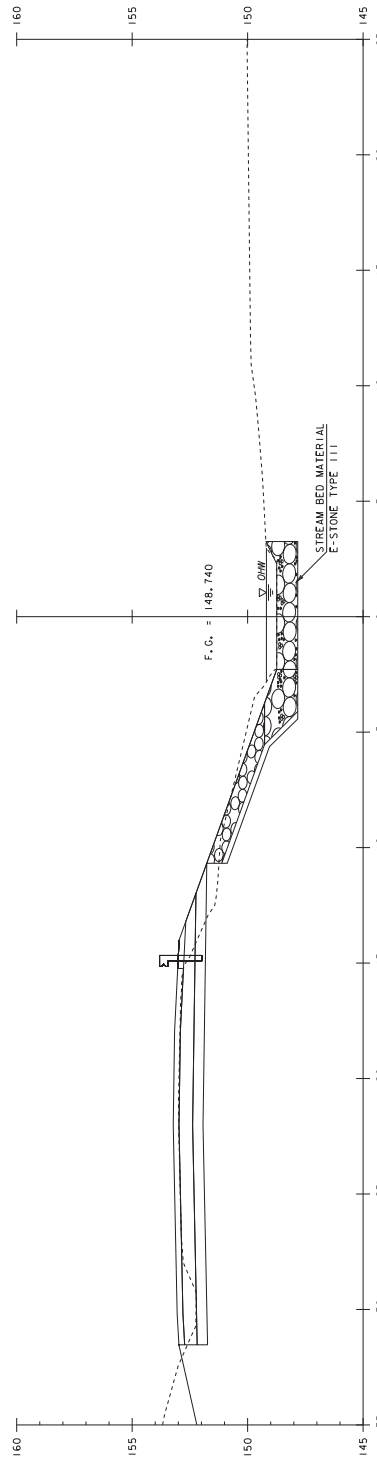
30+012.00



30+009.02
END CUL VERT 35B

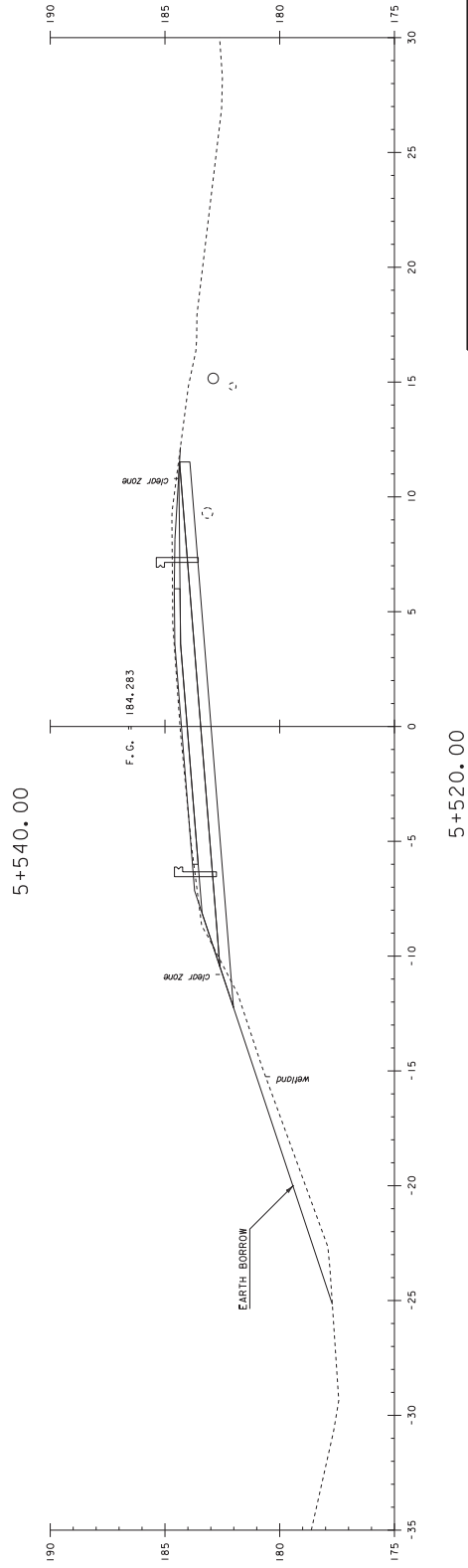
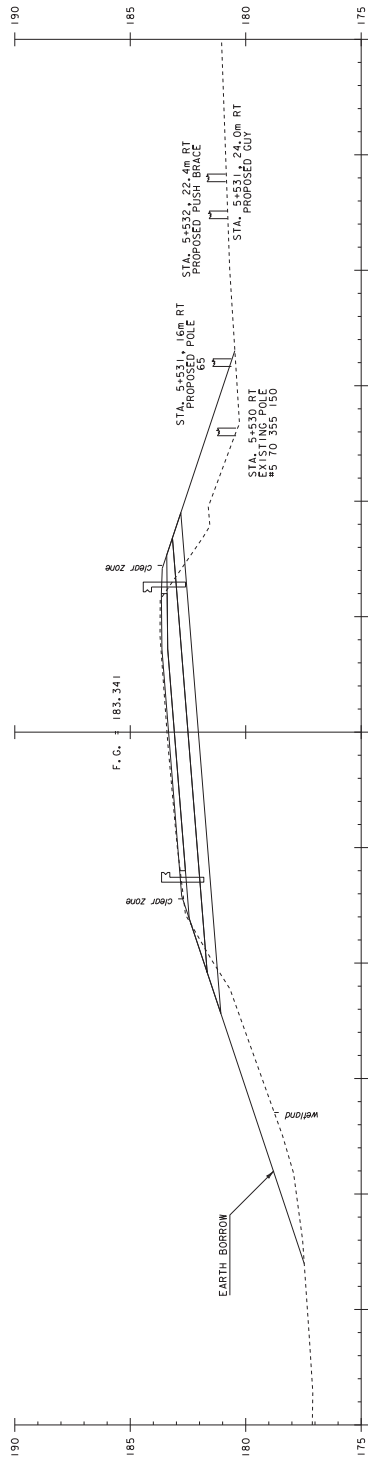
PROJECT NAME:	PITTSFORD
PROJECT NUMBER:	NH 019-3(491)
FILE NAME:	85B008/DESIGN/485B008.coe.dgn
DATE:	02-APR-2019
PROJECT LEADER:	B. MARTIN
DRAWN BY:	J. MACKINTOSH
DESIGNED BY:	J. MACKINTOSH
CHECKED BY:	A. KEMPTON
BR 07A CHANNEL OHW	SHEET 7
	SHEET 19 OF 35

STA. 30+009 TO STA. 30+012



PROJECT NAME: PITTSFORD
PROJECT NUMBER: NH 019-3(491)
FILE NAME: 858008/DESIGN/485008.coe.dgn PLOT DATE: 02-APR-2019
PROJECT LEADER: B. MARTIN
DESIGNED BY: J. MACKINTOSH
BR 07A CHANNEL OHW SHEET 8

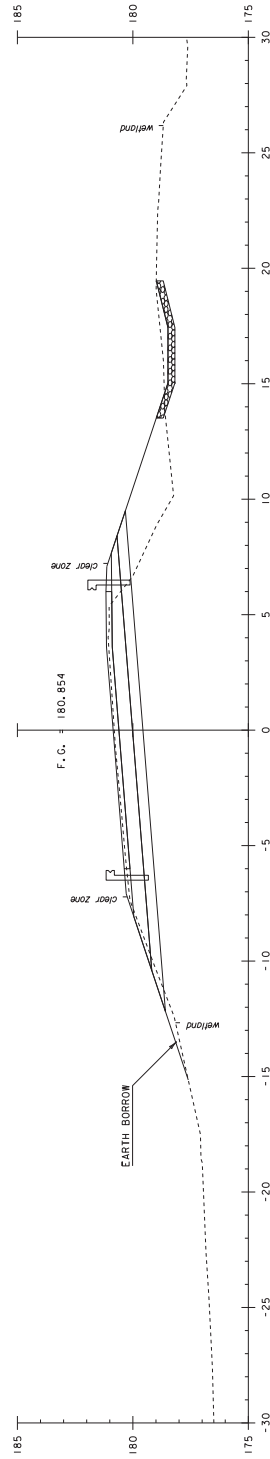
STA. 30+015 TO STA. 30+017



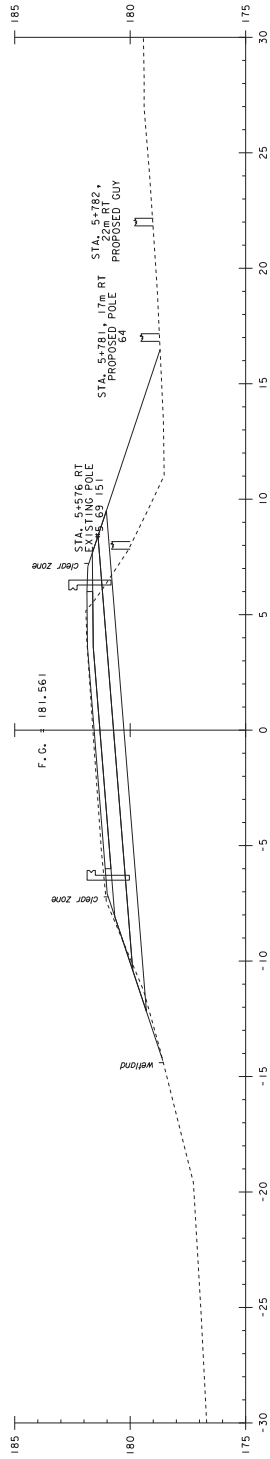
PROJECT NAME:	PITTSFORD
PROJECT NUMBER:	NH 019-3(491)

FILE NAME: 85B008/DESIGN/d85b008_coe.dgn PLOT DATE: 12-APR-2019
PROJECT LEADER: B. MARTIN DRAWN BY: J. MACKINTOSH
DESIGNED BY: J. MACKINTOSH CHECKED BY: A. KEMPTON
MAINLINE OHW SHEET 1 SHEET 21 OF 35

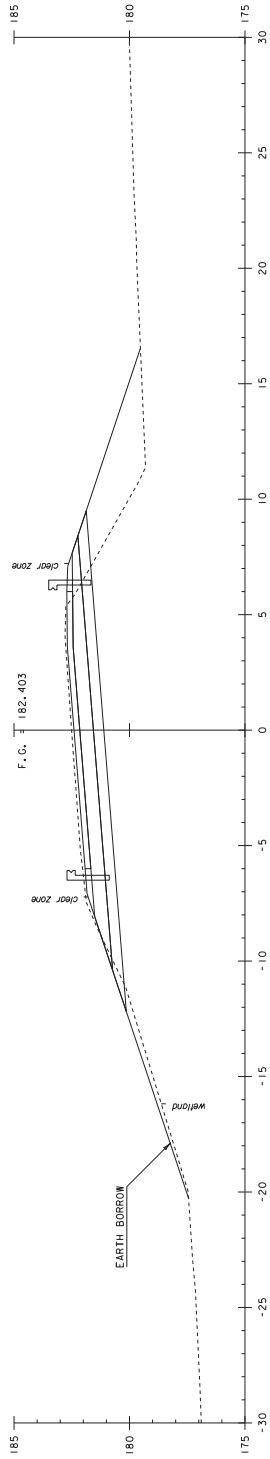
STA. 5+520 TO STA. 5+540



5+600.00



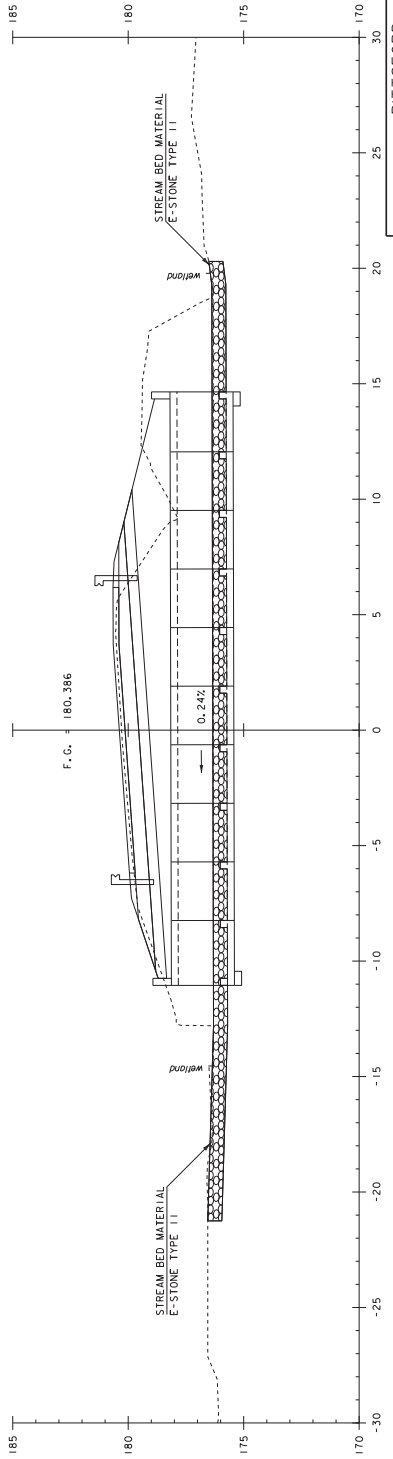
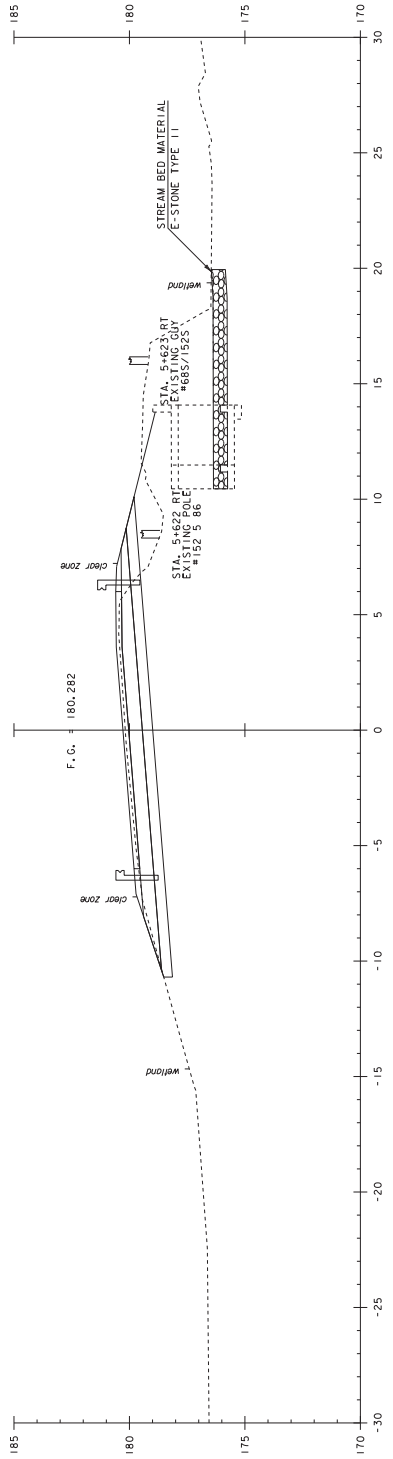
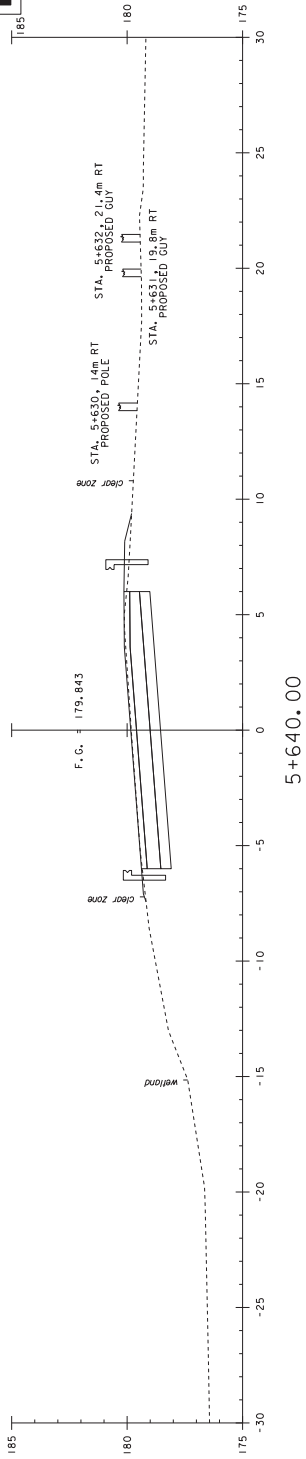
5+580.00



5+560.00

PROJECT NAME:	PITTSFORD
PROJECT NUMBER:	NH 019-3(491)
FILE NAME:	85B008/DESIGN/85B008.coe.dgn
DATE:	02-APR-2019
PROJECT LEADER:	B. MARTIN
DRAWN BY:	J. MACKINTOSH
DESIGNED BY:	J. MACKINTOSH
CHECKED BY:	A. KEMPTON
SHEET	22 OF 35

STA. 5+560 TO STA. 5+600

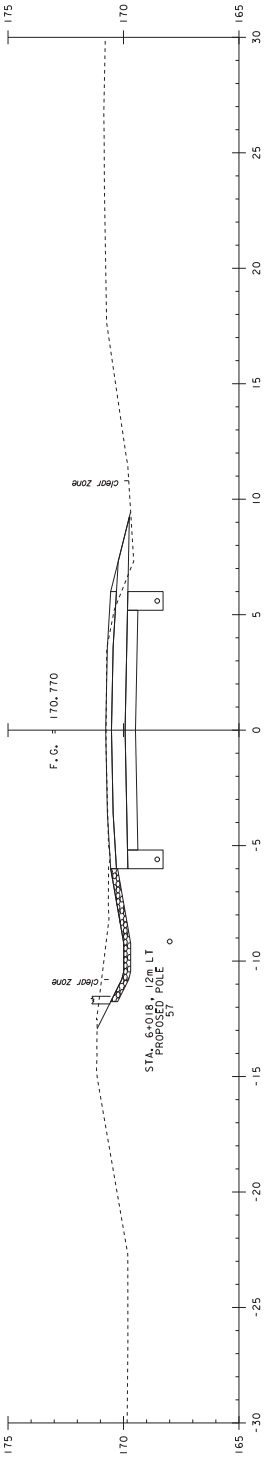
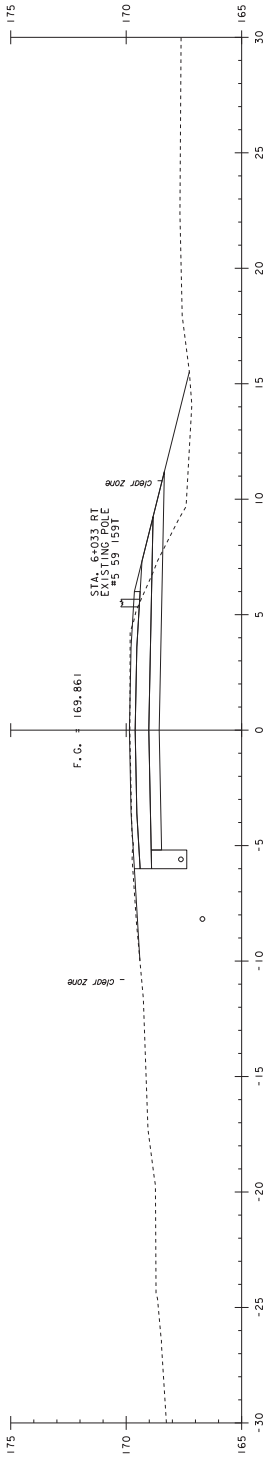
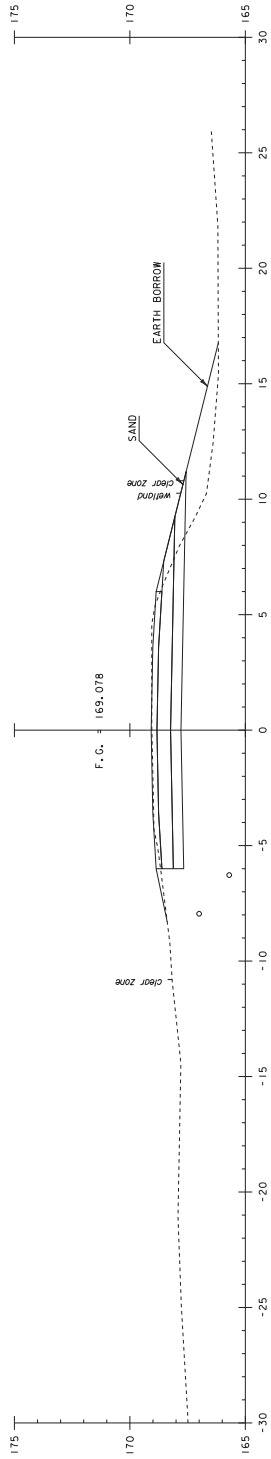


5+616.00 (BRIDGE #106)
SKEWED 14.0°

NOTES:
REFER TO DETAIL SHEETS AND CHANNEL CROSS SECTIONS FOR BRIDGE DETAILS

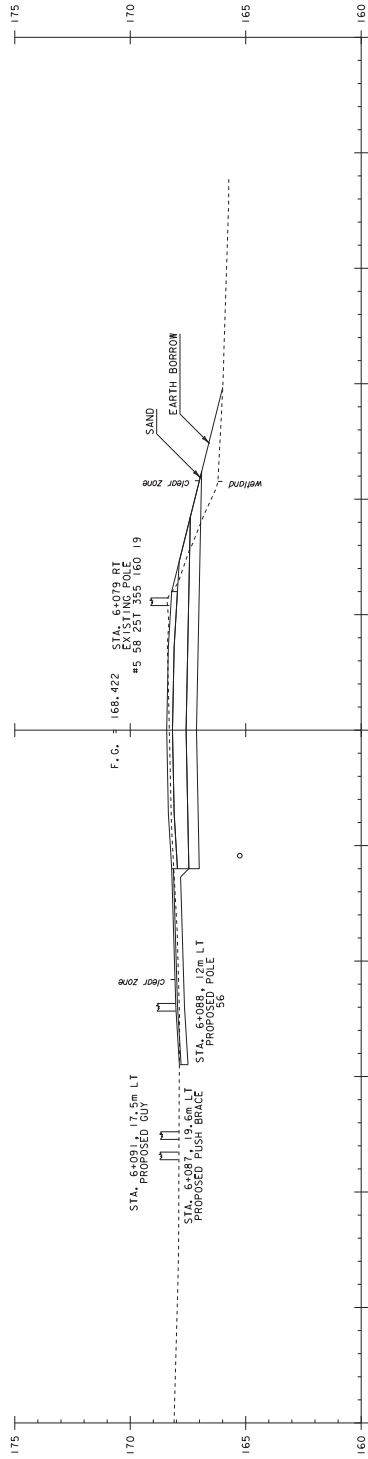
PROJECT NAME: PITTSFORD
PROJECT NUMBER: NH 019-3(491)
FILE NAME: 858008/DESIGN/858008.coe.dgn PLOT DATE: 02-APR-2019
PROJECT LEADER: B. MARTIN
DESIGNED BY: J. MCKINTOSH
CHECKED BY: A. KEMPTON
MAINLINE OHW SHEET 3

STA. 5+616 TO STA. 5+640

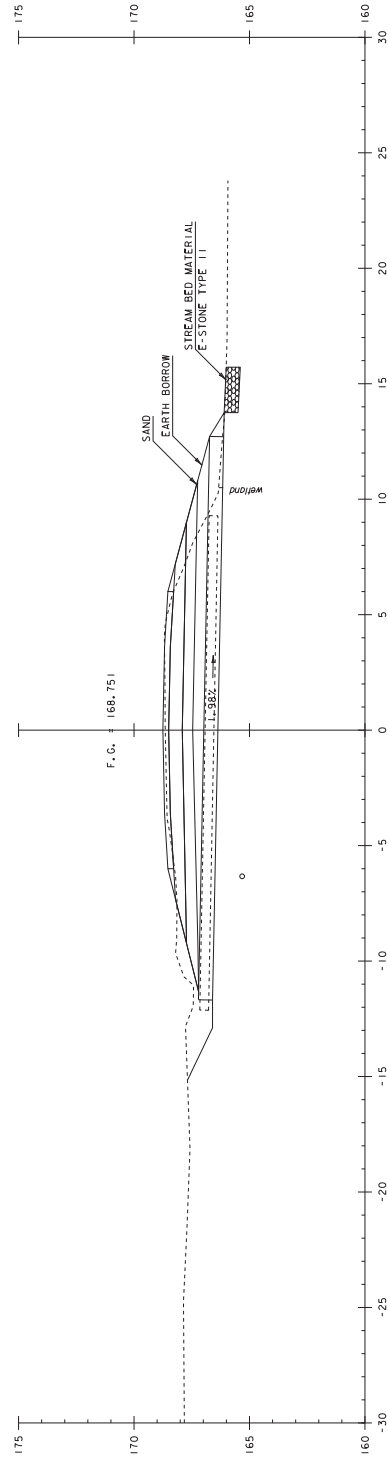


PROJECT NAME: PITTSFORD
PROJECT NUMBER: NH 09-3(491)
FILE NAME: 85B008/DESIGN/485B008.coe.dgn PLOT DATE: 02-APR-2019
PROJECT LEADER: B. MARTIN
DESIGNED BY: J. MACKINTOSH
CHECKED BY: A. KEMPTON
SHEET 24 OF 35

STA. 6+020 TO STA. 6+060



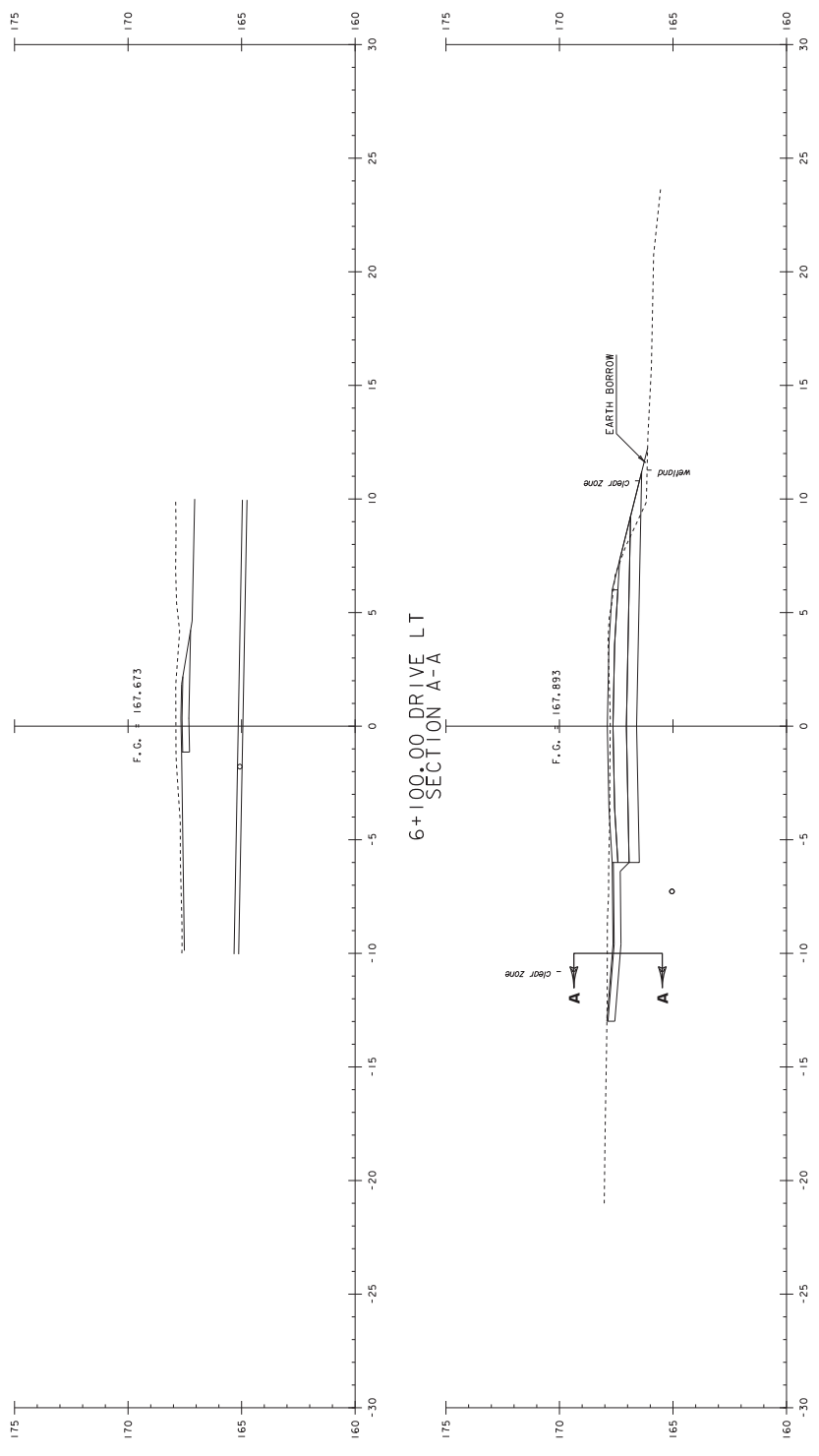
6+080.00



6+069.40 PIPE

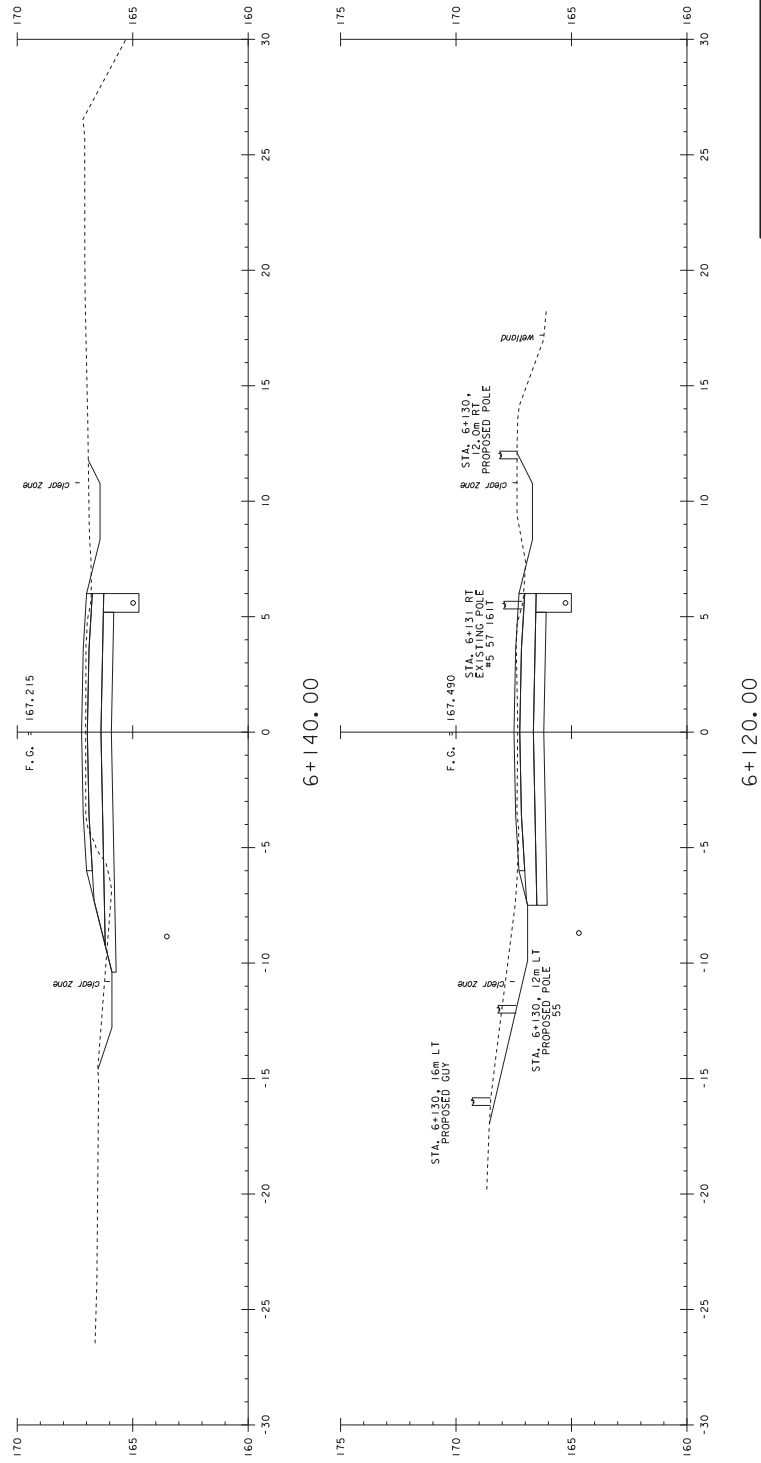
PROJECT NAME: PITTSFORD
PROJECT NUMBER: NH 09-3(491)
FILE NAME: 85B008/DESIGN/485B008.coe.dgn PLOT DATE: 02-APR-2019
PROJECT LEADER: B. MARTIN
DESIGNED BY: J. MACKINTOSH
CHECKED BY: A. KEMPTON
MANLINE OHW SHEET 5

STA. 6+069 TO STA. 6+080



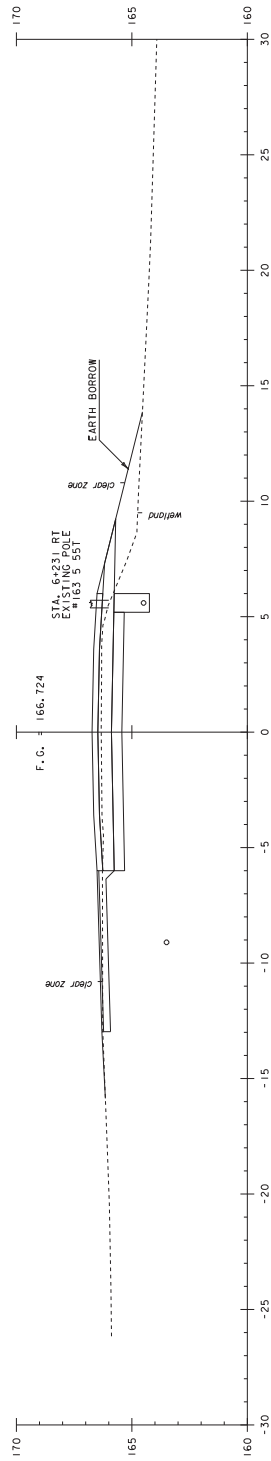
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PROJECT NUMBER:	NH 09-3(49I)
FILE NAME:	85B008/DESIGN/485B008.coe.dgn
DATE:	02-APR-2019
PROJECT LEADER:	B. MARTIN
DRAWN BY:	J. MACKINTOSH
DESIGNED BY:	J. MACKINTOSH
CHECKED BY:	A. KEMPTON
SHEET	26 OF 35

STA. 6+100 TO STA. 6+100

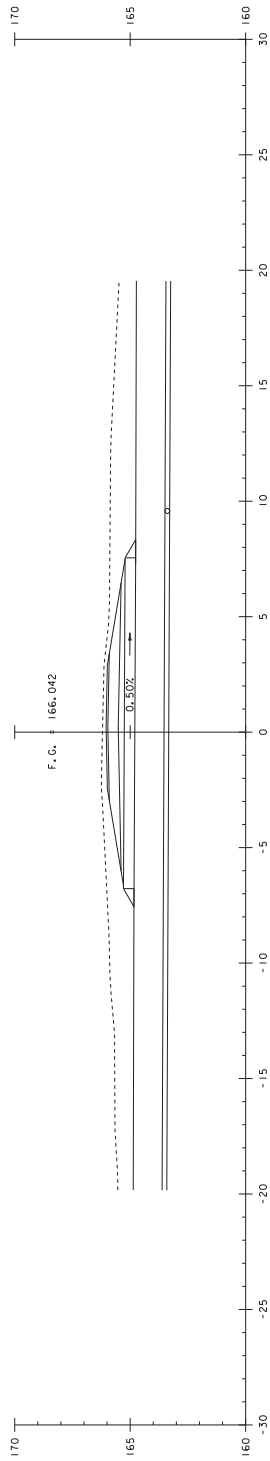


PROJECT NAME:	PITTSFORD
PROJECT NUMBER:	NH 09-3(491)
FILE NAME:	85B008/DESIGN/485B008.coe.dgn
DATE:	02-APR-2019
PROJECT LEADER:	B. MARTIN
DRAWN BY:	J. MACKINTOSH
DESIGNED BY:	J. MACKINTOSH
CHECKED BY:	A. KEMPTON
SHEET	27 OF 35

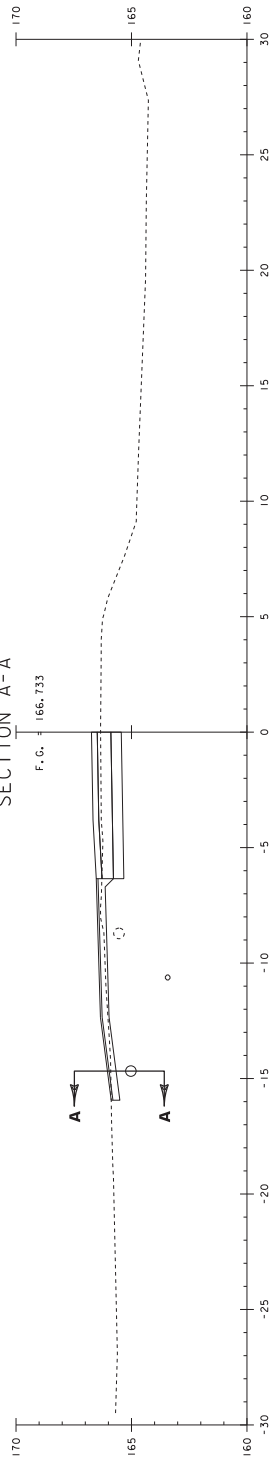
STA. 6+120 TO STA. 6+140



6+240.00



6+238.00 DRIVE LT
SECTION A-A

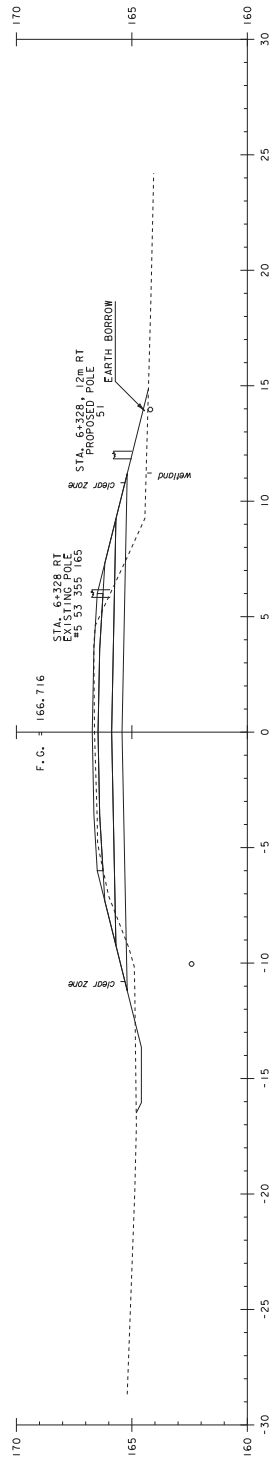


6+238.00 DRIVE LT (GRAVEL)
SKEWED 19.0°

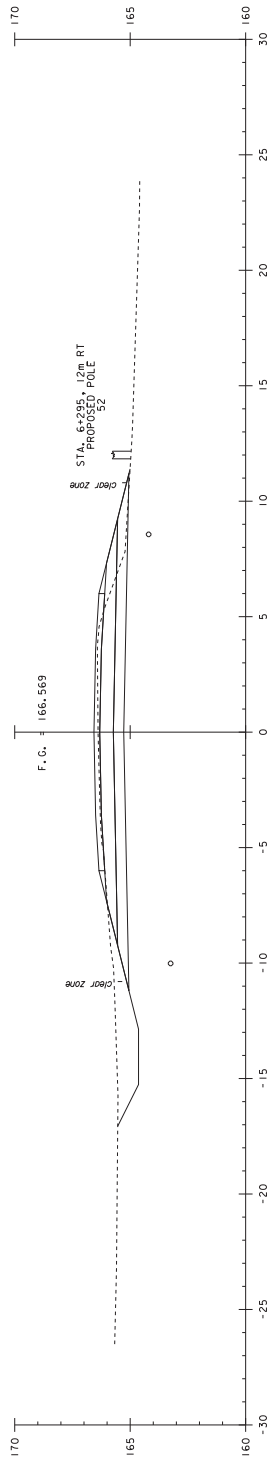
PROJECT NAME: PITTSFORD
PROJECT NUMBER: NH 019-3(491)

FILE NAME: 85B008/DESIGN/85B008.dgn PLOT DATE: 02-APR-2019
PROJECT LEADER: B. MARTIN
DESIGNED BY: J. MCKINTOSH
CHECKED BY: A. KEMPTON
MAINLINE OHW SHEET 8
SHEET 28 OF 35

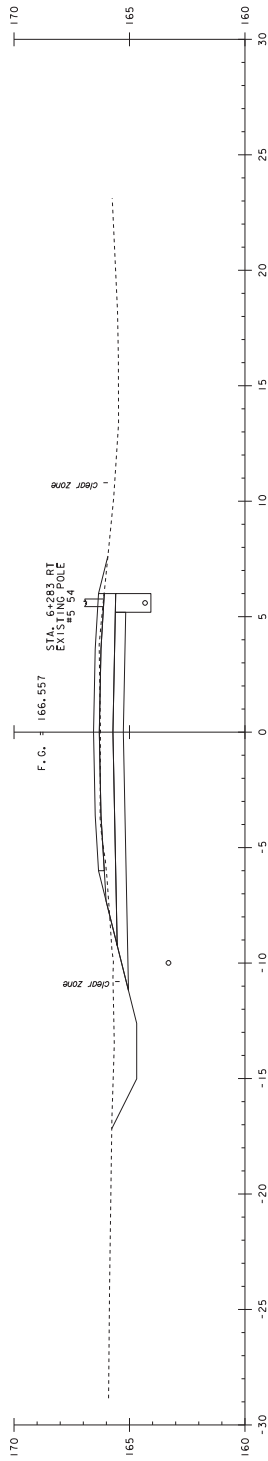
STA. 6+238 TO STA. 6+240



6+320.00



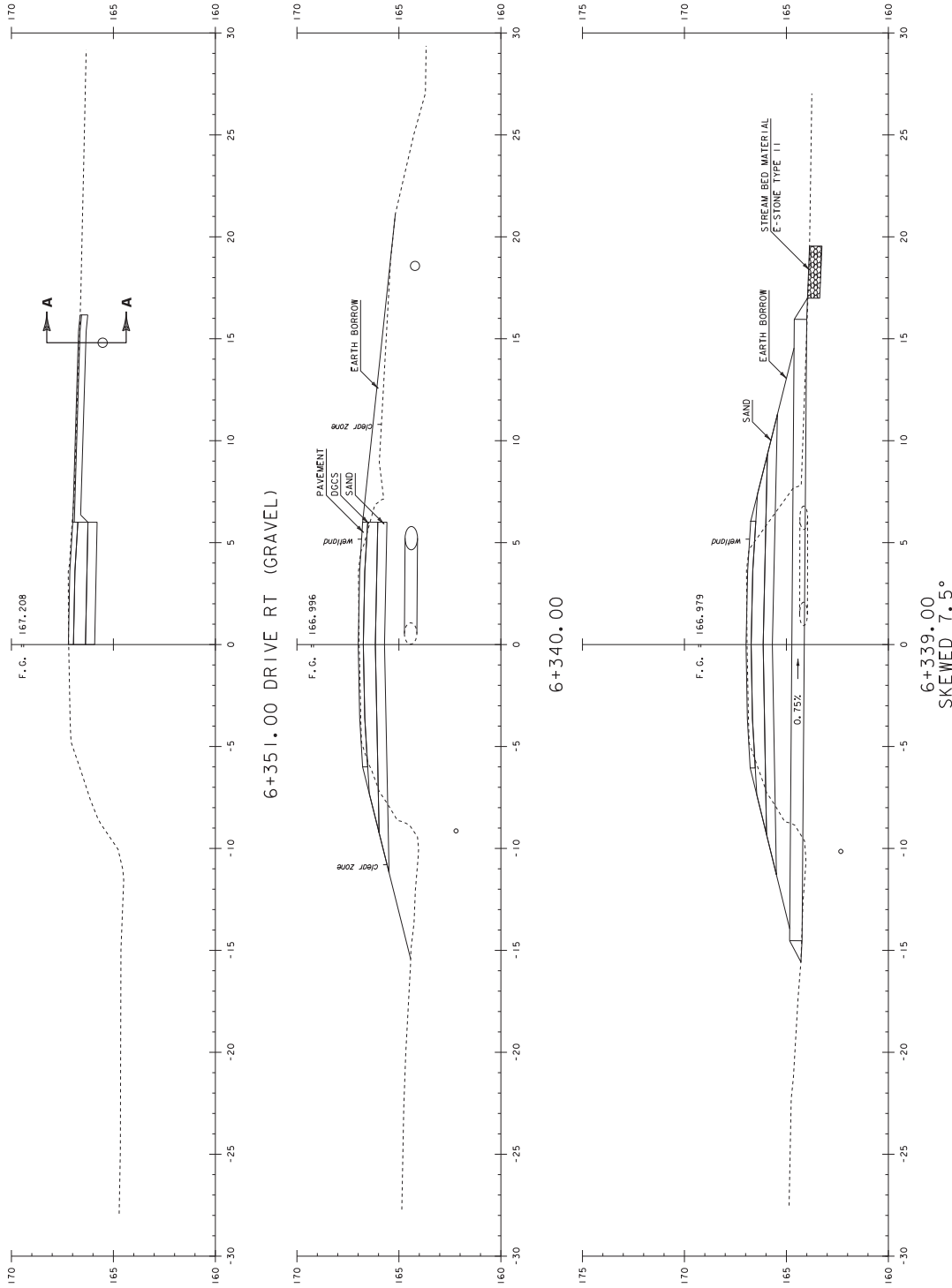
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6+280.00

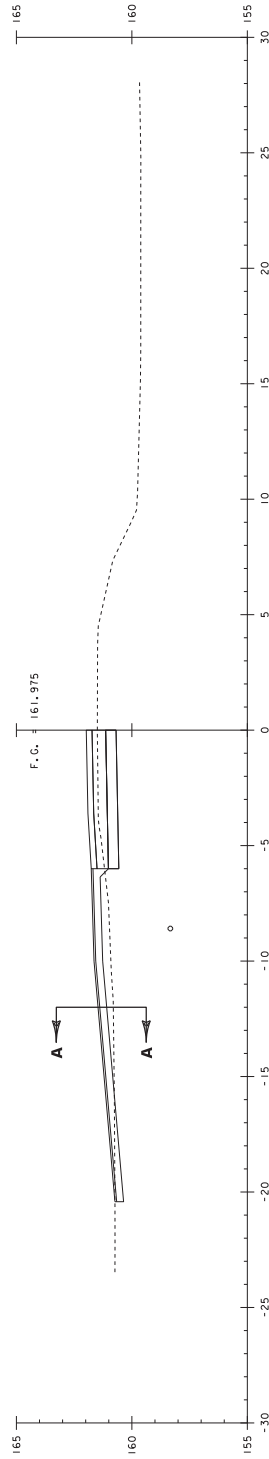
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PROJECT NUMBER:	NH 09-3(491)
FILE NAME:	85B008/DESIGN/85B008.coe.dgn
DATE:	02-APR-2019
PROJECT LEADER:	B. MARTIN
DRAWN BY:	J. MCKINTOSH
CHECKED BY:	J. MCKINTOSH
SHEET	29 OF 35

STA. 6+280 TO STA. 6+320

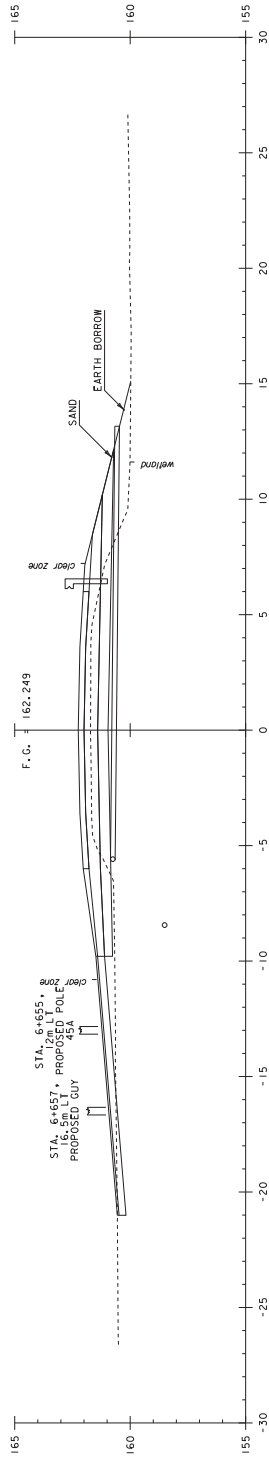


PROJECT NAME: PITTSFORD
PROJECT NUMBER: NH 019-3(491)
FILE NAME: 85B008/DESIGN/485B008.coe.dgn PLOT DATE: 02-APR-2019
PROJECT LEADER: B. MARTIN DRAWN BY: J. MCKINTOSH
DESIGNED BY: J. MCKINTOSH CHECKED BY: A. KEMPTON
MANLINE OHW SHEET 10 SHEET 30 OF 35

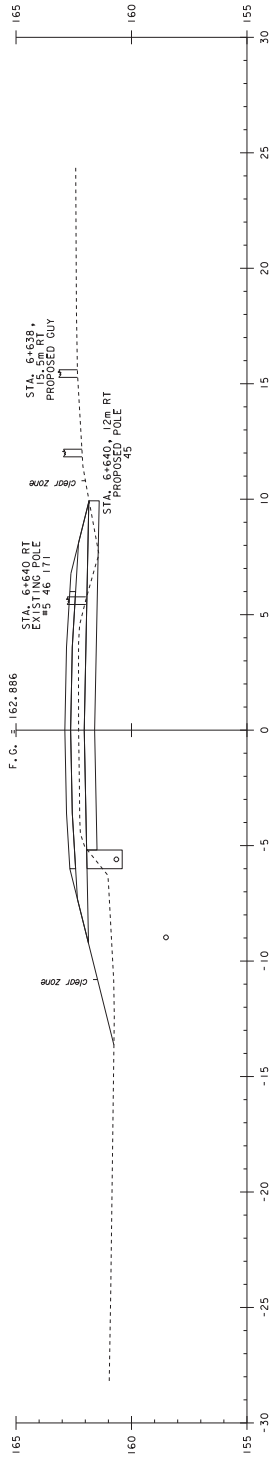
STA. 6+340 TO STA. 6+351



6+670.00 DRIVE LT (GRAVEL)



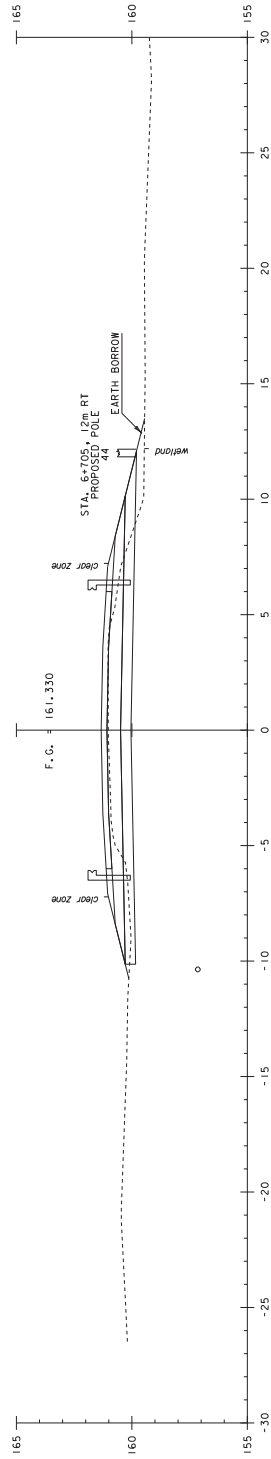
6+660.00



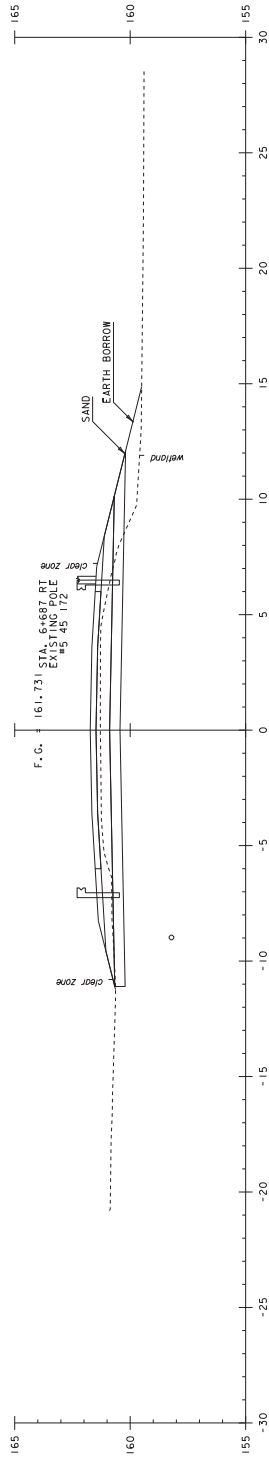
6+640.00

PROJECT NAME:	PITTSFORD
PROJECT NUMBER:	NH 09-3(49I)
FILE NAME:	85B008/DESIGN/485B008.coe.dgn
PLOT DATE:	02-APR-2019
PROJECT LEADER:	B. MARTIN
DRAWN BY:	J. MACKINTOSH
DESIGNED BY:	J. MACKINTOSH
CHECKED BY:	A. KEMPTON
SHEET	31 OF 35

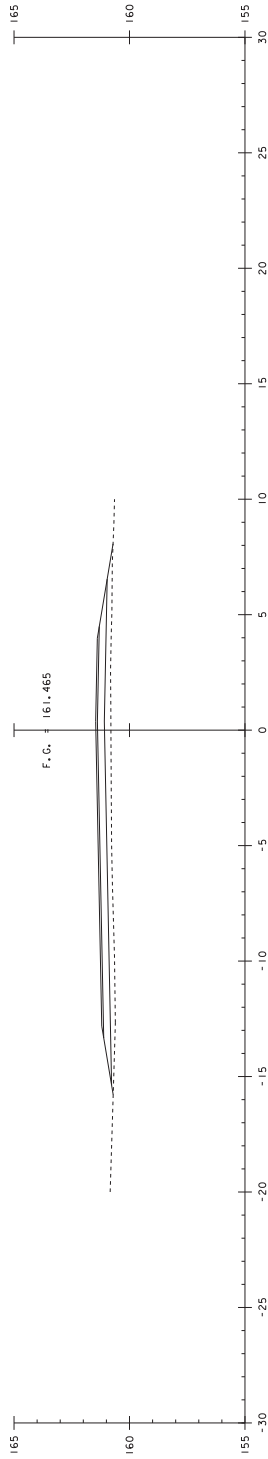
STA. 6+640 TO STA. 6+670



6+700.00



6+680.00

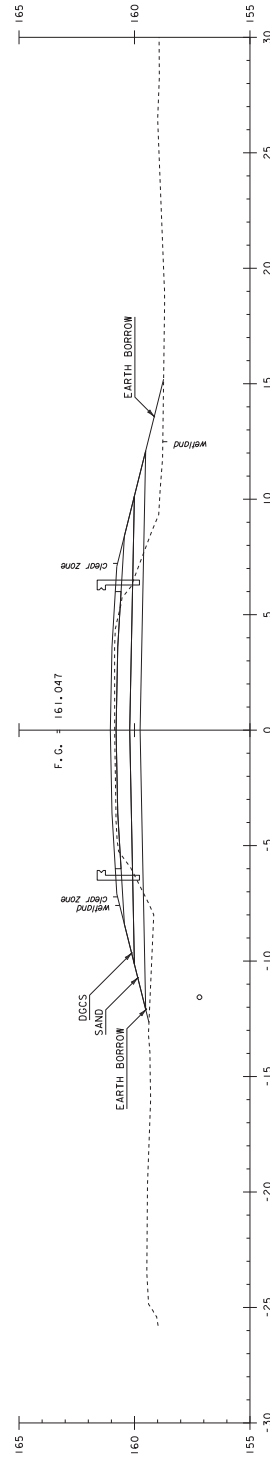
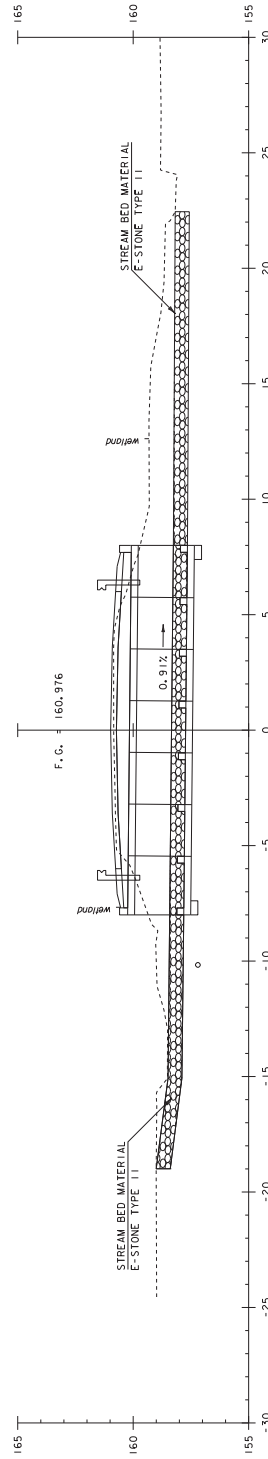
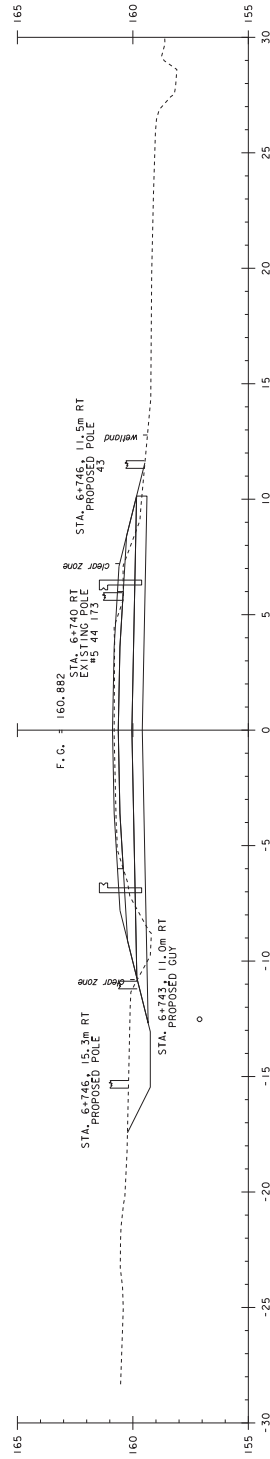


6+670.00 DRIVE RT
SECTION A-A

PROJECT NAME: PITTSFORD
PROJECT NUMBER: NH 09-3(491)

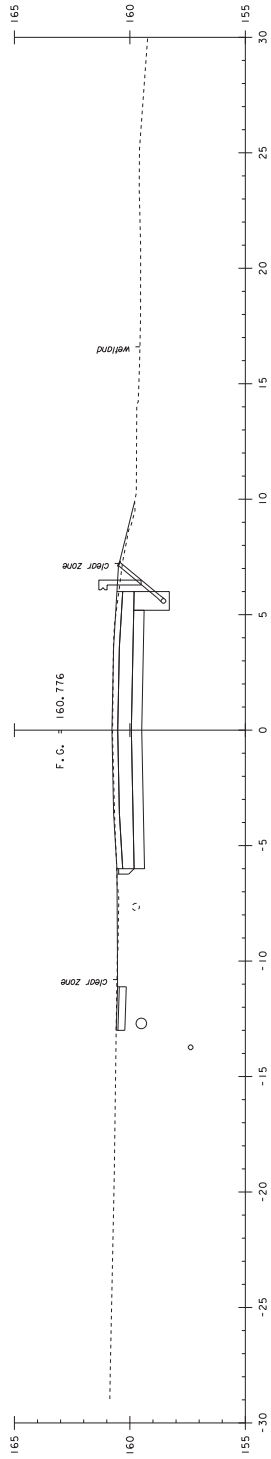
FILE NAME: 85B008/DESIGN/85B008.coe.dgn PLOT DATE: 02-APR-2019
PROJECT LEADER: B. MARTIN DRAWN BY: J. MCKINTOSH
DESIGNED BY: J. MCKINTOSH CHECKED BY: A. KEMPTON
MAINLINE OHW SHEET 12 SHEET 32 OF 35

STA. 6+670 TO STA. 6+700

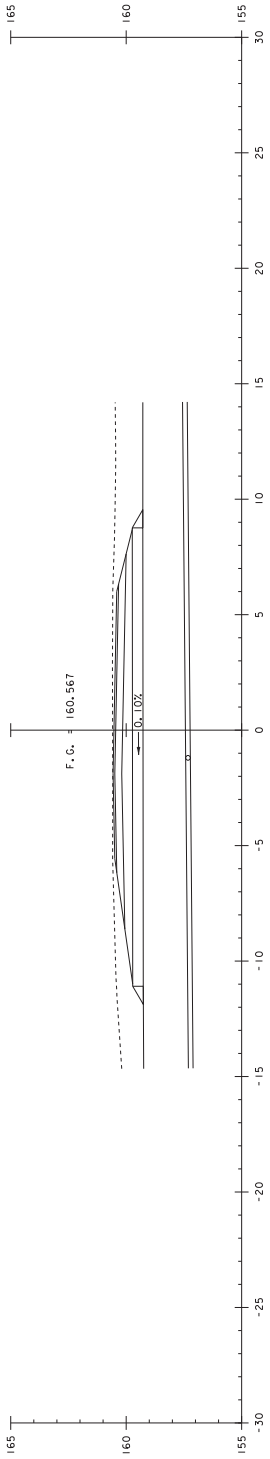


NOTE: REFER TO DETAIL SHEETS AND CHANNEL CROSS SECTIONS FOR BRIDGE DETAILS

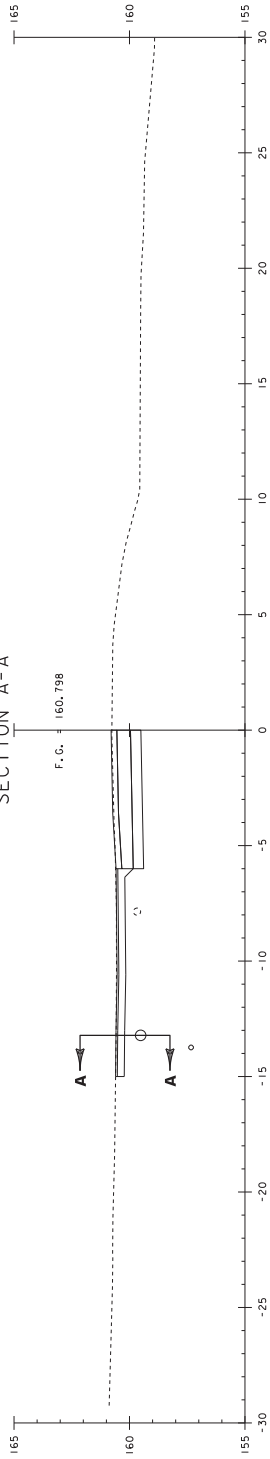
PROJECT NAME: PITTSFORD
PROJECT NUMBER: NH 019-3(491)
FILE NAME: 858008/DESIGN/858008.coe.dgn PLOT DATE: 02-APR-2019
PROJECT LEADER: B. MARTIN
DESIGNED BY: J. MCKINTOSH
CHECKED BY: A. KEMPTON
MANLINE OHW SHEET 13
SHEET 33 OF 35



6+760.00



6+756.00 DRIVE LT
SECTION A-A

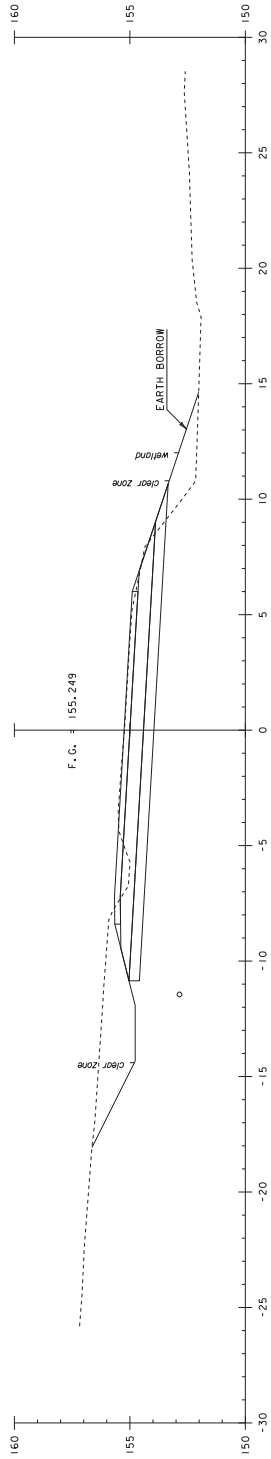


6+756.00 DRIVE LT (GRAVEL)

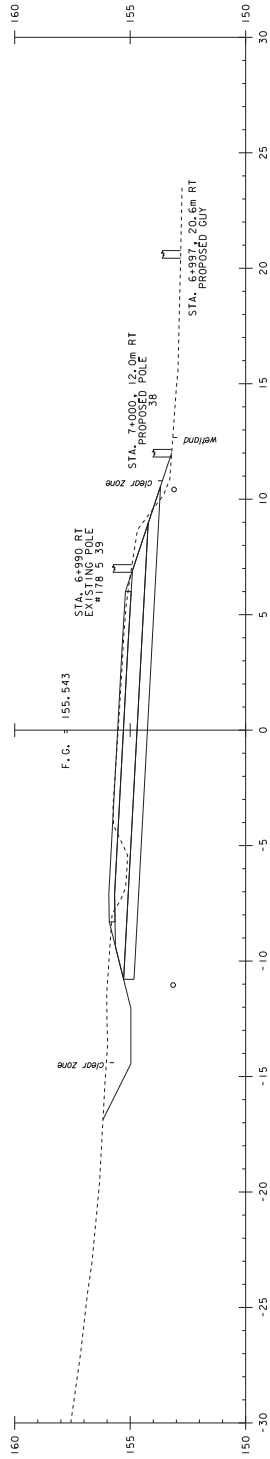
PROJECT NAME: PITTSFORD
PROJECT NUMBER: NH 09-3(491)

FILE NAME: 85B008/DESIGN/485B008.coe.dgn PLOT DATE: 02-APR-2019
PROJECT LEADER: B. MARTIN DRAWN BY: J. MCKINTOSH
DESIGNED BY: J. MCKINTOSH CHECKED BY: A. KEMPTON
MAINLINE OHW SHEET 14 SHEET 34 OF 35

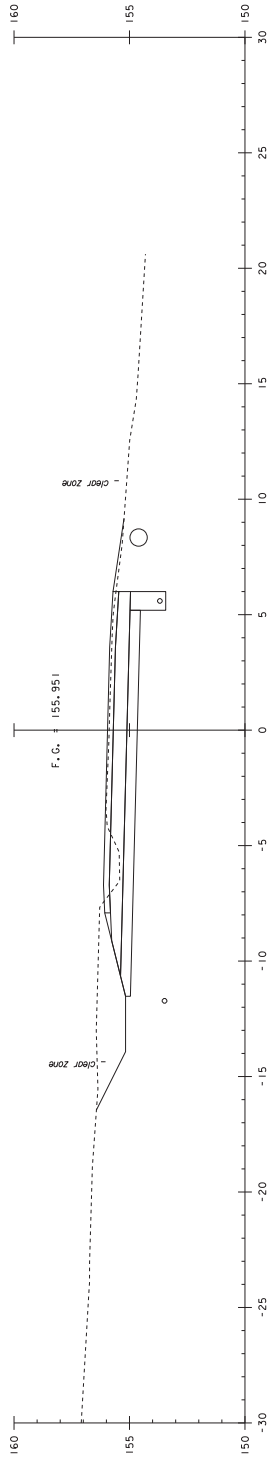
STA. 6+756 TO STA. 6+760



7+020.00



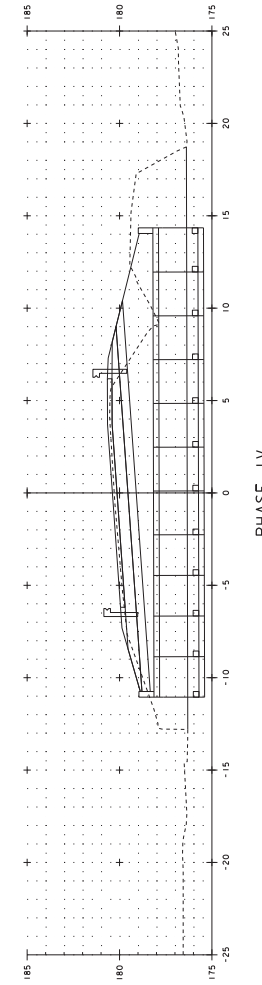
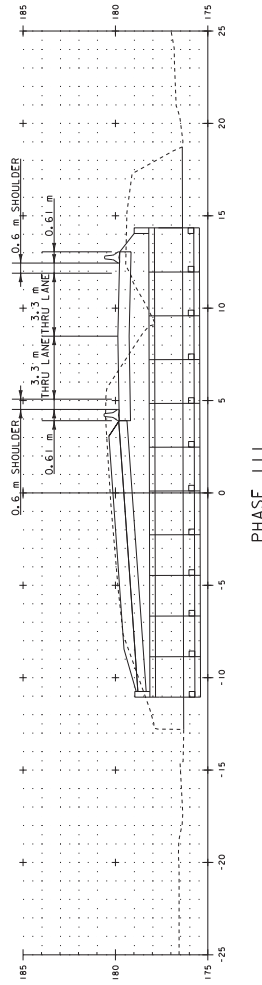
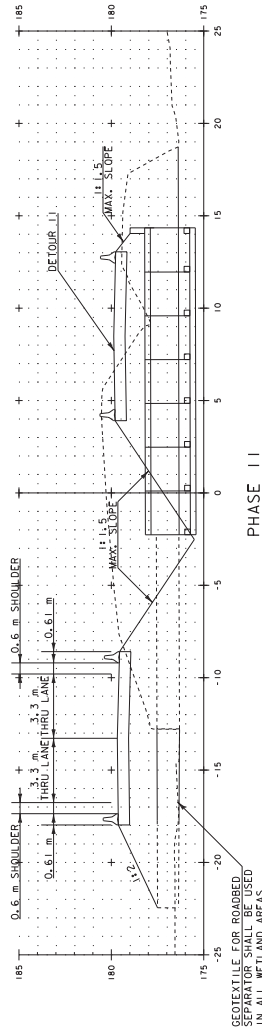
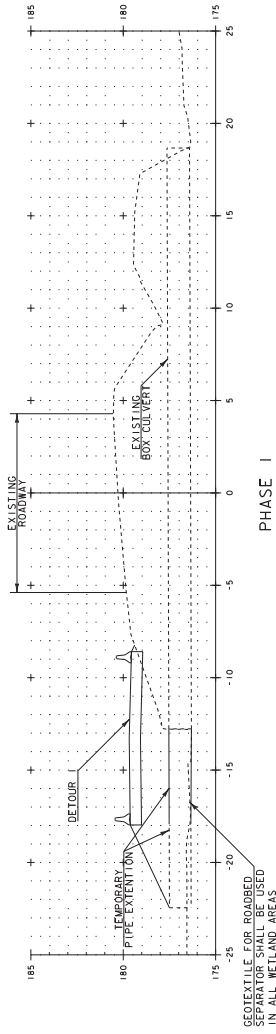
7+000.00



6+980.00

PROJECT NAME:	PITTSFORD
PROJECT NUMBER:	NH 019-3(491)
FILE NAME:	85B008/DESIGN/485B008.coe.dgn
DATE:	02-APR-2019
PROJECT LEADER:	B. MARTIN
DRAWN BY:	J. MACKINTOSH
DESIGNED BY:	J. MACKINTOSH
CHECKED BY:	A. KEMPTON
SHEET	35 OF 35

STA. 6+980 TO STA. 7+020



TRAFFIC PHASE DESCRIPTION:

PHASE I: TRAFFIC SHALL REMAIN ON THE EXISTING ROADWAY, WHILE DETOUR II IS CONSTRUCTED. A TEMPORARY PIPE EXTENSION OR STREAM RELOCATION WILL BE REQUIRED TO CONSTRUCT DETOUR I.

PHASE II: TRAFFIC SHALL BE SHIFTED TO DETOUR I. THE INLET END OF THE EXISTING CULVERT SHALL BE REMOVED AND REPLACED WITH A NEW CULVERT. THE REMAINING PORTION OF THE EXISTING CULVERT SHALL BE BACKFILLED AND DETOUR II SHALL BE CONSTRUCTED.

PHASE III: ALL TRAFFIC SHALL BE SHIFTED TO DETOUR II. DETOUR I SHALL BE REMOVED ALONG WITH THE REMAINING PORTION OF THE EXISTING STRUCTURE. THE REMAINING PORTION OF THE PROPOSED STRUCTURE SHALL BE INSTALLED AND BACKFILLED TO PROPOSED GRADE.

PHASE IV: ALL TRAFFIC SHALL BE SHIFTED TO THE MAINLINE CORRIDOR. DETOUR II SHALL BE REMOVED AND THE REMAINING EARTHWORK SHALL BE COMPLETED FOR THE MAINLINE CORRIDOR.

NOTES:
THIS TRAFFIC CONTROL PHASING PLAN IS STRICTLY CONCEPTUAL AND IS NOT INTENDED TO LIMIT THE CONTRACTOR IN ANY WAY, BUT TO OUTLINE ONE WAY OF PROGRESSING. THE CONTRACTOR SHALL SUBMIT A DETAILED TRAFFIC CONTROL PHASING PLAN AND NEED NOT USE THE PLAN SHOWN HERE.

ALL DEPTHS OF MATERIALS ARE SHOWN FOR ILLUSTRATION PURPOSES ONLY AND SHALL BE DETERMINED BY THE CONTRACTOR TO PROVIDE SAFE AND COMFORTABLE DRIVING CONDITIONS FOR THE TRAVELING PUBLIC. ALL TRAVELLED SURFACES SHALL BE PAVED. PAYMENT SHALL BE INCLUDED IN ITEM 641.11 TRAFFIC CONTROL, ALL-INCLUSIVE.

PROJECT NAME:	PITTSFORD
PROJECT NUMBER:	NH 09-3(491)
FILE NAME:	d85b008-5-66box-wrk.dgn
DESIGNED BY:	A. KEMPTON
CHECKED BY:	A. KEMPTON
BR 06 TRAFFIC CONTROL PHASING SHEET	183 OF 368

1.1 PROJECT DESCRIPTION

1.1 PROJECT DESCRIPTION

STA 5+616 CL (BR #106)	2.44 M X 2.13 M X 25.70 M
STA 5+659 CL	610MM X 30.00 M
STA 6+069 CL	610MM X 25.50 M
STA 6+340 CL	610MM X 30.00 M
STA 6+727 CL (RR #107)	3.05 M X 2.13 M X 16.00 M
STA 6+953 CL	750MM X 22.50 M
STA 7+140 CL	600MM X 20.00 M
STA 7+169 RT (BR #107A)	4.57 M X 2.44 M X 17.2 M

1.2 SITE INVENTORY

THIS PROJECT IS BEING CONSTRUCTED THROUGH A RURAL AREA OF PITTSFORD. THE PROJECT LOCATION IS RELATIVELY FLAT WITH AN AVERAGE SLOPE OF 1.2%. THE MAJORITY OF THE GRADE DIFFERENCE IS AT THE NORTHERN MOST PORTION PROJECT. THE PROJECT HAS THREE DISCRETE DISCHARGE POINTS AND THREE INDISCRETE DISCHARGE POINTS. THE DISCHARGE POINTS WITHIN THE PROJECT ARE GENERALLY IN THE SAME LOCATION AS THE EXISTING DRAINAGE STRUCTURES. THERE ARE THREE SITES; EACH CORRESPONDS WITH DIFFERENT RECEIVING WATER.

FEATURES, VEGETATION, SOILS, AND SENSITIVE RESOURCE AREAS

THERE ARE THREE DISTINCT SITES, EACH OF WHICH DISCHARGE TO A DIFFERENT RECEIVING WATER THAT HAVE BEEN IDENTIFIED WITHIN THE PROJECT. THERE ARE SUB-DRAINAGE AREAS WITHIN EACH SITE WHICH DRAIN TO DIFFERENT SEGMENTS OF THE LARGER WATERSHED. E.G. MULTIPLE SMALL WETLANDS ALONG EACH TRIBUTARY.

DESCRIPTION:
THIS AREA INVOLVES DISTURBANCES BETWEEN STATIONS 5+338 AND 6+062. DRAINAGE AREA #1 ALSO INVOLVES A PORTION OF THE LEFT SIDE OF THE ROADWAY FROM STATION 6+444 AND 6+843. DRAINAGE AREA #1 HAS TWO DISCRETE DISCHARGE POINTS WHICH ARE LOCATED AT STATIONS 5+617 (S/N 01) AND 6+772 (S/N04). DRAINAGE AREA #1 INCLUDES 6 S/3 DRAINAGE AREAS, SITES 1A - 1F.

DRAINAGE AREA #2

DESCRIPTION: DRAINAGE AREA #2 HAS ONE DISCRETE DISCHARGE POINT AND TWO POINTS OF INTEREST. THE POINTS OF INTEREST ARE LOCATED AT STATIONS 6-070 (S/N 02) AND 6-341 (S/N 03). THE DISCHARGE POINT IS LOCATED AT STATION 6-955 (S/N 05) WHERE RUNOFF LEAVES DRAINAGE AREA #2 VIA OVERLAND SHEET FLOW AND DISCHARGES INTO UNNAMED TRIBUTARY #2. DRAINAGE AREA #2 INCLUDES 6 SUB-DRAINAGE AREAS, SITES 2A - 2F.

THE 10.1A AREA OF THIS WATERSHED OF UNNAMED TRIBUTARY #2 IS APPROXIMATELY 5.59 SQUARE MILES. THE ENTIRETY OF THE UNNAMED TRIBUTARY #2 WATERSHED IS LOCATED WITHIN THE FURNACE BROOK WATERSHED, WHICH ENCOMPASSES APPROXIMATELY 28.6 SQUARE MILES. THE PEAK OF THIS SUB-WATERSHED IS AT APPROXIMATELY 640FT. THE SLOPE OF THE SITE RANGES FROM 1% TO 30% AND INCREASINGLY GETS FLATTER AS THE WATER IS CONVEYED CLOSER TO THE ROADWAY CORRIDOR. THE MAJORITY OF THE SITE IS BRUSHY FOREST WITH SOME GRASS LAND AND ISOLATED OFFSITE IMPROVEMENTS.

DESCRIPTION: DRAINAGE AREA #3 DOES NOT HAVE ANY DISCRETE DISCHARGE POINTS, BUT HAS ONE POINT OF INTEREST LOCATED AT THE END OF THE PROJECT: STATION 7+300 (3/1/06), AND DISCHARGES INTO THE TURNAGE BROOK FROM THE OVERLAND SHEET FLUX. THERE ARE NO CROSS PIPES IN THE SITE, THEREFORE, ALL RUNOFF FROM THE EAST SIDE OF THE ROADWAY CORRIDOR REMAINS ON THE SITE, AND ALL RUNOFF FROM THE WEST SIDE OF THE ROADWAY CORRIDOR REMAINS ON THE WEST SIDE OF THE ROADWAY CORRIDOR. DRAINAGE AREA #3 INCLUDES 3 SUB-DRAINAGE AREAS, SITES 3A - 3C.

SEE THE EPSC SUMMARY SHEETS FOR FURTHER DETAIL REGARDING DRAINAGE AREAS AND RELATED SLOPE AND SOIL ERODIBILITY.

CRITICAL HABITATS: NO
HISTORICAL OR ARCHEOLOGICAL AREAS: YES

1.3 RISK EVALUATION

THE EROSION CONTROL PLANS ARE MEANT AS A GUIDELINE FOR PREVENTING EROSION AND CONTROLLING SEDIMENT TRANSPORT. THE PRINCIPLES OUTLINED IN THIS NARRATIVE CONSIST OF APPLYING MEASURES THROUGHOUT CONSTRUCTION OF THE PROJECT IN ORDER TO MINIMIZE SEDIMENT TRANSPORT TO THE WATERBODIES AND OTHER PROTECTION PREVENTION PRACTICES. THE MEASURES INCLUDE STABILIZATION AND STRUCTURAL PRACTICES, STORM WATER CONTROLS AND OTHER POLLUTION PREVENTION PRACTICES. THEY HAVE BEEN PROPOSED BY THE CONTRACTOR AS A BASIS FOR PROVIDING RESOURCES AND WILL NEED TO BE BUILT UPON BASED ON THE SPECIFIC MEASURES AND METHODS OF THE CONTRACTOR. REFER TO THE LOW RISK SITE HANDBOOK AND APPROPRIATE DETAIL SHEETS FOR SPECIFIC GUIDANCE AND CONSTRUCTION DETAILING.

ALL MEASURES SHALL BE REGULARLY MAINTAINED AND SHALL BE CHECKED FOR SEDIMENT BUILD-UP. SEDIMENT SHALL BE DISPOSED OF AT AN APPROVED SITE WHERE IT WILL NOT BE SUBJECT TO EROSION.

PROJECT SITE BOUNDARIES AND AREAS CONSTRUCTION EQUIPMENT CAN ACCESS SHALL BE DELINEATED. PROJECT DEMARCATION FENCING (PDF) SHALL BE USED TO PHYSICALLY MARK SITE BOUNDARIES. BARRIER FENCE SHALL BE USED INSTEAD OF PROJECT DEMARCATION FENCE WITHIN 100 FEET OF A WATER RESOURCE (STREAM, BROOK, LAKE, POND, WETLAND, ETC).

PREVENTING INITIAL SOIL EROSION BY MINIMIZING THE EXPOSED AREA IS MUCH MORE EFFECTIVE THAN TREATING ERODED SEDIMENT. EARTH DISTURBANCE CAN BE MINIMIZED THROUGH CONSTRUCTION PHASING BY ONLY OPENING UP EARTH AS NECESSARY. THIS CAN LIMIT THE AREA THAT WILL BE EXPOSED TO EROSION. EMPLOY TEMPORARY CONSTRUCTION STABILIZATION PRACTICES TO PREVENT UNDISTURBED AND EXPOSED TO EROSION. FOR PROJECTS WHICH FALL UNDER THE CONSTRUCTION CATEGORY, THE PERMIT AUTHORITY MAY BE EXPOSED AT ANY TIME. THE ACREAGE LISTED ON THE PERMIT AUTHORIZATION MAY BE EXPOSED AT ANY GIVEN TIME.

1.4.3 SITE ENTRANCE/EXIT STABILIZATION

STABILIZED CONSTRUCTION ENTRANCES SHALL BE INSTALLED AS PROPOSED ON THE EPSC PLAN AND ANYWHERE EQUIPMENT WILL BE GOING FROM AREAS OF EXPOSED SOILS TO PAVED SURFACES WITH THE METHOD DESCRIBED ON DETAIL SHEET #03 UNLESS DIRECTED OTHERWISE BY THE ENGINEER.

SEDIMENT BARRIERS SHALL BE UTILIZED TO INTERCEPT RUNOFF AND ALLOW SUSPENDED SEDIMENT TO SETTLE OUT. THEY SHALL BE INSTALLED PRIOR TO ANY UP SLOPE WORK.

DROP STRUCTURES

ADDITIONAL MEASURES SHALL BE USED TO INTERCEPT RUNOFF FROM ABOVE THE CONSTRUCTION AND DIRECT IT AROUND THE DISTURBED AREA SO THAT CLEAN WATER DOES NOT BECOME MUDDIED WHILE TRAVELING OVER EXPOSED SOILS ON THE CONSTRUCTION SITE.

THE PROJECT AREA IS RELATIVELY FLAT. THEREFORE IT IS NOT ANTICIPATED THAT DIVERSION MEASURES WILL BE NECESSARY.

CHECK STRUCTURES SHALL BE UTILIZED TO REDUCE THE VELOCITY, AND THUS THE EROSION POTENTIAL, OF CONCENTRATED FLOW IN CHANNELS.

PROJECT NAME: PITTSFORD
PROJECT NUMBER: NH 09-3(491)
FILE NAME: d85008-epsc.narrative.dgn
PLOT DATE: 29-MAR-2019
PROJECT LEADER: B. MARTIN
DRAWN BY: A. KEMPTON
DESIGNED BY: A. KEMPTON
CHECKED BY: M. GABELIN
EPSC NARRATIVE SHEET 1
SHEET 102 OF 368

Wet Areas Mix

Wet areas are usually adjacent to rivers and waterways. Some examples of typical wet areas are: road ditches, stream banks, wetlands, and riparian areas. The soil will contain clay, a high amount of organic matter or untreated sewage.

Wet Areas Seed Mix

Wet areas are usually adjacent to rivers and waterways. Some examples of typical wet areas are: road ditches, stream banks, wetlands, and riparian areas. The soil will contain clay, a high amount of organic matter or untreated sewage.

WEIGHT	BRAND/CAST	HYDRATED	NAME	Latin Name	GERM PURITY
37.5%	37	37	55 GREENING RED FESCUE	FESTUCA RUBRA VAR. RUBRA	90%
29%	43.5	72.5	HARD FESCUE	FESTUCA LONGIFOLIA	95%
15%	22.5	37.5	CHEWINGS FESCUE	FESTUCA RUBRA VAR. COMMUTATA	95%
15%	22.5	37.5	ANNUAL RYEGRASS	LOLIUM MULTIFLORUM	90%
3%	4.5	7.5	INERTS		95%
100%	120	220			

VAOT RURAL AREA MIX

WEIGHT	BRAND/CAST	HYDRATED	NAME	Latin Name	GERM PURITY
37.5%	22.5	45	GREENING RED FESCUE	FESTUCA RUBRA VAR. RUBRA	95%
37.5%	22.5	45	TALL FESCUE	FESTUCA ARUNDINACEA	90%
5.0%	3	5	RED TOP	ACROSTIS AGINTAE	90%
15.0%	9	13	WHITE FIELD CLOVER	TRIFOLIUM REPENS	85%
5.0%	3	5	ANNUAL RYE GRASS	LOLIUM MULTIFLORUM	95%
100%	60	120			

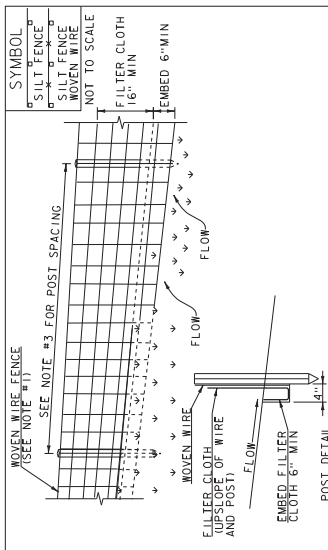
GENERAL AMENDMENT GUIDANCE

FERTILIZER	AG LIME	PELLETIZED LIME
100 LBS/AC	2 TONS/AC	1 TONS/AC

CONSTRUCTION GUIDANCE

1. SEED MIX: THE CONTRACTOR SHALL COORDINATE WITH THE RESIDENT ENGINEER ON WHICH SEED MIX TO USE.
2. SEED MIX: USE AS INDICATED IN THE PLANS AND/OR FOR ALL ESTABLISHED (UPLAND AND NON WETLAND) AREAS DISTURBED BY THE CONTRACTOR.
3. ALL SEED MIXTURES SHALL NOT HAVE A WEED CONTENT EXCEEDING 0.40% BY WEIGHT AND SHALL BE FREE OF ALL NOXIOUS SEEDS.
4. FERTILIZER AND LIMESTONE: SHALL FOLLOW RATES SHOWN ON PLAN OR AS DIRECTED BY THE ENGINEER.
5. HAY MULCH: TO BE PLACED ON EARTH SLOPES AT THE RATE OF 2 TONS/ACRE, ACHIEVE 90% GROUND COVER OR AS DIRECTED BY THE ENGINEER.
6. HYDROSEEDING: ALTHOUGH GUIDANCE IS GIVEN ABOVE THE SITE CONDITIONS AND THE TYPE OF HYDROSEED PROPOSED FOR USE WILL ULTIMATELY DICTATE THE AMOUNTS AND TYPES OF SOIL AMENDMENTS TO BE APPLIED.
7. TURF ESTABLISHMENT: PLACING SEED, FERTILIZER, LIME AND MULCH PRIOR TO SEPTEMBER 15 AND AFTER APRIL 15 CAN BETTER ENSURE A VIGOROUS GROWTH OF GRASS.

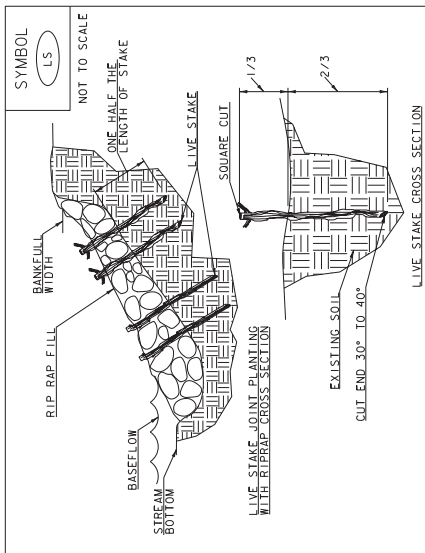
ADAPTED FROM VTRANS TECHNICAL LANDSCAPE MANUAL FOR ROADWAYS AND TRANSPORTATION FACILITIES	TURF ESTABLISHMENT
THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 651 OF SEED (PAY ITEM 651.0)	REVISIONS JANUARY 12, 2005 WHF



CONSTRUCTION SPECIFICATIONS

1. MOVEN WIRE REINFORCED FENCE IS REQUIRED WITHIN 100' UPSLOPE OF RECEIVING WATERS WHEN THE PROJECT FALLS UNDER A CONSTRUCTION PERMITTING REQUIREMENT. MOVEN WIRE SHALL BE A MIN. 14 GAUGE WITH A 6" MAX. MESH OPENING.
2. FILTER CLOTH SHALL BE EITHER FILTER X, MIRAF 1100X, STABILINKA T140N OR APPROVED EQUIVALENT.
3. POST SPACING FOR WIRE-BACKED FENCE SHALL BE 10' MAXIMUM. FOR WIRE-BACKED FENCE, POST SPACING SHALL BE 10' MAXIMUM. FOR WIRE-BACKED FENCE, POST SPACING SHALL BE 10' MAXIMUM. FOR WIRE-BACKED FENCE, POST SPACING SHALL BE 10' MAXIMUM.
4. MOVEN WIRE FENCE IS TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES. FILTER CLOTH IS TO BE FASTENED SECURELY TO MOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION.
5. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVER-LAPPED BY 6" AND FOLDED.
6. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN SEDIMENT REACHES HALF OF FABRIC HEIGHT.

ADAPTED FROM DETAILS PROVIDED BY: NEW YORK STATE DEC VERMONT DEPARTMENT OF ENVIRONMENTAL CONSERVATION	SILT FENCE
NOTES: REFER TO "THE VERMONT STANDARDS & SPECIFICATIONS FOR EROSION PREVENTION & SEDIMENT CONTROL -2006-" FROM THE VT AGENCY OF NATURAL RESOURCES FOR ADDITIONAL GUIDANCE.	REVISIONS MARCH 21, 2008 WHF JANUARY 12, 2005 WHF JANUARY 12, 2005 WHF



CONSTRUCTION SPECIFICATIONS

1. LENGTH OF STAKE DEPENDS UPON APPLICATION
2. LIVE STAKES SHALL BE CUT TO A POINT ON THE BASAL END FOR INSERTION IN THE GROUND.
3. A DIBBLE, IRON BAR, OR SIMILAR TOOL SHALL BE USED TO MAKE A PILOT HOLE PRIOR TO INSERTING STAKE IN GROUND.
4. A MINIMUM OF 2" TO 4" AS WELL AS 2 LIVE BUDS SHALL BE EXPOSED ABOVE THE GROUND OR RIP RAP.
5. TAMP SOIL AROUND STAKE.
6. CARE SHALL BE TAKEN TO MINIMIZE DAMAGE TO STAKE. ANY DAMAGE SHALL BE TRIMMED BACK TO AN UNDAUNTED CONDITION.

ADAPTED FROM DETAILS PROVIDED BY: NEW YORK STATE DEC VERMONT DEPARTMENT OF ENVIRONMENTAL CONSERVATION	LIVE STAKE
NOTES: REFER TO "THE VERMONT STANDARDS & SPECIFICATIONS FOR EROSION PREVENTION & SEDIMENT CONTROL -2006-" FROM THE VT AGENCY OF NATURAL RESOURCES FOR ADDITIONAL GUIDANCE.	REVISIONS JANUARY 21, 2008 WHF JANUARY 21, 2008 WHF

THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 653 FOR LIVE STAKE (PAY ITEM 653.70)

PROJECT NAME: PITTSFORD	PROJECT NUMBER: NH 019-3(491)
FILE NAME: d8500b-epsc-det.dgn	PLOT DATE: 23-MAR-2019
PROJECT LEADER: B. MARTIN	DRAWN BY: A. AGRAWAL
DESIGNED BY: W. FARLEY	CHECKED BY: A. KEMPTON
EPSC DETAIL SHEET 1	SHEET 107 OF 368

NOTIFICATION OF ADMINISTRATIVE APPEAL OPTIONS AND PROCESS AND REQUEST FOR APPEAL

Applicant: Vermont Agency of Transportation c/o Mr. James Brady		File Number: NAE-2019-01002	Date: September 5, 2019
Attached is:			See Section below
X	INITIAL PROFFERED PERMIT (Standard Permit or Letter of permission)		A
	PROFFERED PERMIT (Standard Permit or Letter of permission)		B
	PERMIT DENIAL		C
	APPROVED JURISDICTIONAL DETERMINATION		D
X	PRELIMINARY JURISDICTIONAL DETERMINATION		E

SECTION I - The following identifies your rights and options regarding an administrative appeal of the above decision. Additional information may be found at <http://www.usace.army.mil/Missions/CivilWorks/RegulatoryProgramandPermits/appeals.aspx> or Corps regulations at 33 CFR Part 331.

A: INITIAL PROFFERED PERMIT: You may accept or object to the permit.

- **ACCEPT:** If you received a Standard Permit, you may sign the permit document and return it to the district engineer for final authorization. If you received a Letter of Permission (LOP), you may accept the LOP and your work is authorized. Your signature on the Standard Permit or acceptance of the LOP means that you accept the permit in its entirety, and waive all rights to appeal the permit, including its terms and conditions, and approved jurisdictional determinations associated with the permit.
- **OBJECT:** If you object to the permit (Standard or LOP) because of certain terms and conditions therein, you may request that the permit be modified accordingly. You must complete Section II of this form and return the form to the district engineer. Your objections must be received by the district engineer within 60 days of the date of this notice, or you will forfeit your right to appeal the permit in the future. Upon receipt of your letter, the district engineer will evaluate your objections and may: (a) modify the permit to address all of your concerns, (b) modify the permit to address some of your objections, or (c) not modify the permit having determined that the permit should be issued as previously written. After evaluating your objections, the district engineer will send you a proffered permit for your reconsideration, as indicated in Section B below.

B: PROFFERED PERMIT: You may accept or appeal the permit

- **ACCEPT:** If you received a Standard Permit, you may sign the permit document and return it to the district engineer for final authorization. If you received a Letter of Permission (LOP), you may accept the LOP and your work is authorized. Your signature on the Standard Permit or acceptance of the LOP means that you accept the permit in its entirety, and waive all rights to appeal the permit, including its terms and conditions, and approved jurisdictional determinations associated with the permit.
- **APPEAL:** If you choose to decline the proffered permit (Standard or LOP) because of certain terms and conditions therein, you may appeal the declined permit under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the division engineer. This form must be received by the division engineer within 60 days of the date of this notice.

C: PERMIT DENIAL: You may appeal the denial of a permit under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the division engineer. This form must be received by the division engineer within 60 days of the date of this notice.

D: APPROVED JURISDICTIONAL DETERMINATION: You may accept or appeal the approved JD or provide new information.

- **ACCEPT:** You do not need to notify the Corps to accept an approved JD. Failure to notify the Corps within 60 days of the date of this notice, means that you accept the approved JD in its entirety, and waive all rights to appeal the approved JD.
- **APPEAL:** If you disagree with the approved JD, you may appeal the approved JD under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the division engineer. This form must be received by the division engineer within 60 days of the date of this notice.

E: PRELIMINARY JURISDICTIONAL DETERMINATION: You do not need to respond to the Corps regarding the preliminary JD. The Preliminary JD is not appealable. If you wish, you may request an approved JD (which may be appealed), by contacting the Corps district for further instruction. Also you may provide new information for further consideration by the Corps to reevaluate the JD.

SECTION II - REQUEST FOR APPEAL or OBJECTIONS TO AN INITIAL PROFFERED PERMIT

REASONS FOR APPEAL OR OBJECTIONS: (Describe your reasons for appealing the decision or your objections to an initial proffered permit in clear concise statements. You may attach additional information to this form to clarify where your reasons or objections are addressed in the administrative record.)

ADDITIONAL INFORMATION: The appeal is limited to a review of the administrative record, the Corps memorandum for the record of the appeal conference or meeting, and any supplemental information that the review officer has determined is needed to clarify the administrative record. Neither the appellant nor the Corps may add new information or analyses to the record. However, you may provide additional information to clarify the location of information that is already in the administrative record.

POINT OF CONTACT FOR QUESTIONS OR INFORMATION:

If you have questions regarding this decision and/or the appeal process you may contact:

Mr. Robert J. DeSista
Chief, Policy and Technical Analysis Branch
U.S. Army Corps of Engineers (CENAE-RDC)
696 Virginia Road
Concord, Massachusetts 01742-2751
Telephone: 978-318-8879
Email: Robert.J.Desista@usace.army.mil

If you only have questions regarding the appeal process you may also contact:

Mr. James W. Haggerty
Regulatory Program Manager (CENAD-PD-OR)
U.S. Army Corps of Engineers
Fort Hamilton Military Community
301 General Lee Avenue
Brooklyn, New York 11252-6700
Telephone number: 347-370-4650

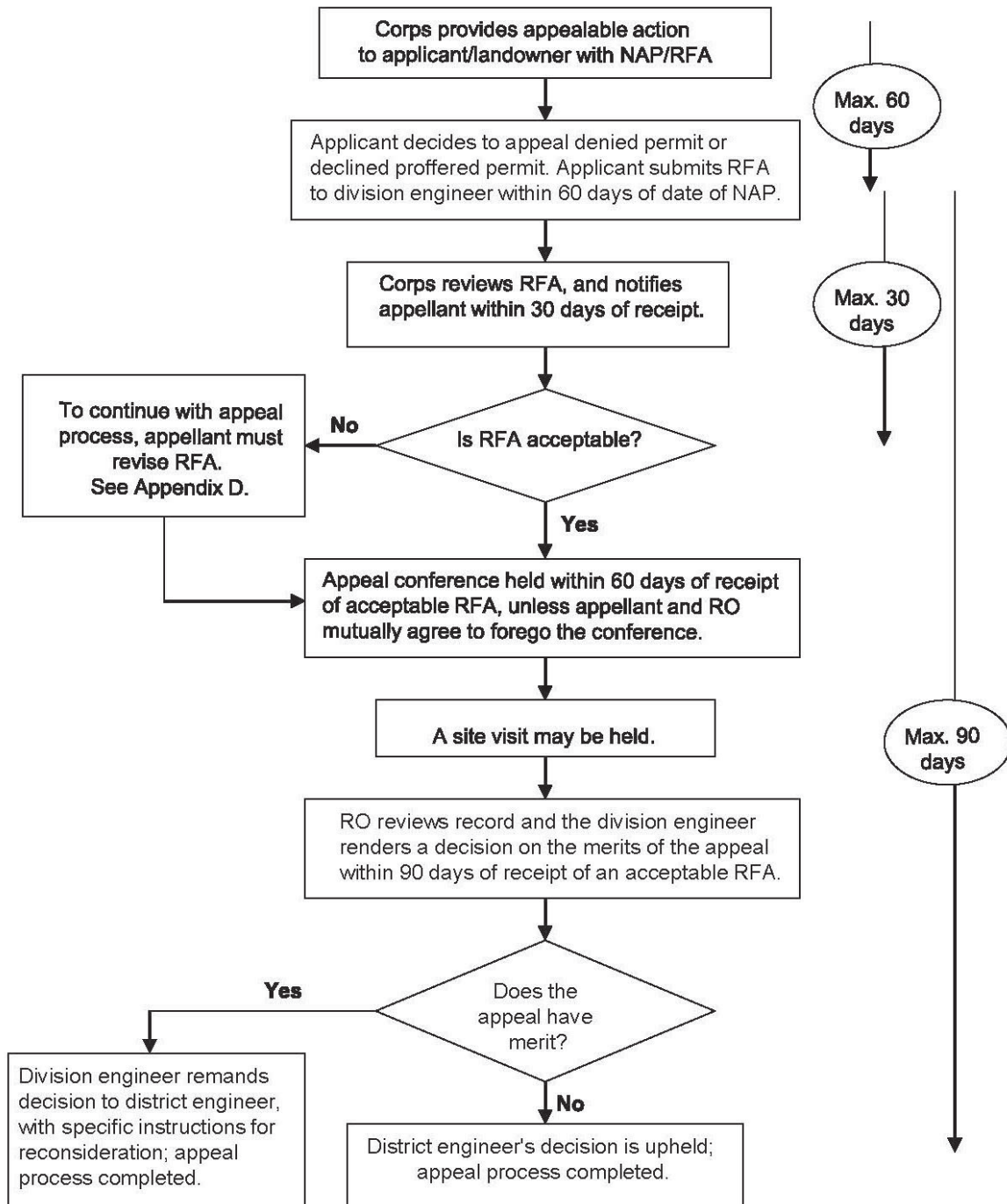
RIGHT OF ENTRY: Your signature below grants the right of entry to Corps of Engineers personnel, and any government consultants, to conduct investigations of the project site during the course of the appeal process. You will be provided a 15 day notice of any site investigation, and will have the opportunity to participate in all site investigations.

Signature of appellant or agent.

Date:

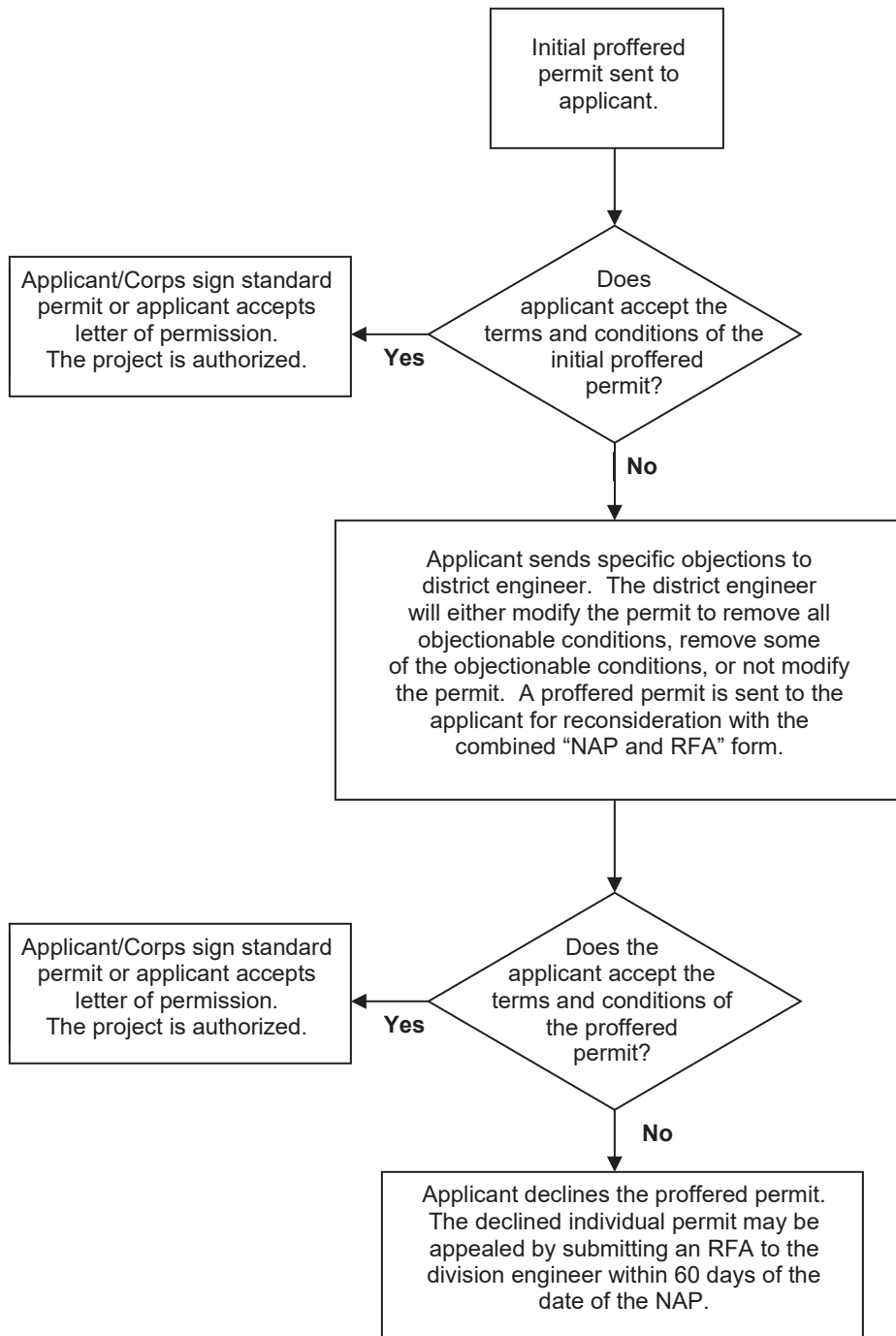
Telephone number:

Administrative Appeal Process for Permit Denials and Proffered Permits



NOTE: If new information is provided to the Corps, the applicant will be asked if the applicant wishes to revise the project or record. If so, the appeal will be withdrawn and the case returned to the District for appropriate action. If not, then the Division Engineer will rule on the merits of the appeal based on the administrative record without consideration of the new information. However, the new information may cause the District Engineer to take action under 33 CFR 325.7, independent of the appeal process.

Applicant Options with Initial/Proffered Permit PPPERMITPermit





**US Army Corps
of Engineers®**
New England District

**INDIVIDUAL PERMIT
WORK-START NOTIFICATION FORM**
(Minimum Notice: Two weeks before work begins)

* EMAIL TO: Angela.C.Repella@usace.army.mil *
* *
* MAIL TO: U.S. Army Corps of Engineers, New England District *
* Vermont Project Office *
* 11 Lincoln Street, Room 210 *
* Essex Junction, Vermont 05452 *

Corps of Engineers Permit No. NAE-2019-01002 was issued to the Vermont Agency of Transportation on September 5, 2019. This work involves the placement of fill within 1.17 acres of two unnamed tributaries and adjacent wetlands in conjunction with the reconstruction of approximately 1.36 miles of U.S. Route 7 from mile marker 1.35 to mile marker 2.755 in Pittsford, Vermont.

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

PLEASE PRINT OR TYPE

Name of Contractor/Firm: _____

Business Address: _____

Telephone Numbers: () _____ () _____

Proposed Work Dates: **Start:** _____ **Finish:** _____

Permittee/Agent Signature: _____ **Date:** _____

Printed Name: _____ **Title:** _____

Date Permit Issued: _____ **Date Permit Expires:** _____

FOR USE BY THE CORPS OF ENGINEERS

PM: Angela C. Repella **Submittals Required:** Yes

Inspection Recommendation: _____



**US Army Corps
of Engineers®**
New England District

(Minimum Notice: Permittee must sign and return notification
within one month of the completion of work.)

COMPLIANCE CERTIFICATION FORM

Permit Number: NAE-2019-01002

Project Manager Angela C. Repella

Name of Permittee: Vermont Agency of Transportation

Permit Issuance Date: September 5, 2019

Please sign this certification and return it to the following address upon completion of the activity and any mitigation required by the permit. You must submit this after the mitigation is complete, but not the mitigation monitoring, which requires separate submittals.

* EMAIL TO: Angela.C.Repella@usace.army.mil *
* * *
* MAIL TO: U.S. Army Corps of Engineers, New England District *
* Vermont Project Office *
* 11 Lincoln Street, Room 210 *
* Essex Junction, Vermont 05452 *

Please note that your permitted activity is subject to a compliance inspection by an U.S. Army Corps of Engineers representative. If you fail to comply with this permit you are subject to permit suspension, modification, or revocation.

I hereby certify that the work authorized by the above referenced permit was completed in accordance with the terms and conditions of the above referenced permit, and any required mitigation was completed in accordance with the permit conditions.

Signature of Permittee

Date

Printed Name

Date of Work Completion

()

Telephone Number

()

Telephone Number



**US Army Corps
of Engineers®**
New England District

**PRELIMINARY JURISDICTIONAL
DETERMINATION FORM**

BACKGROUND INFORMATION

- 1. Report completion date for Preliminary Jurisdictional Determination (JD):** September 3, 2019
- 2. Name and Address of Person Requesting Preliminary JD:** Mr. James Brady, Vermont Agency of Transportation, One National Life Drive, Montpelier, Vermont 05633
- 3. District office, file name and number:** New England District, Vermont Agency of Transportation/Pittsford, NAE-2019-01002
- 4. Project location(s) and background information:** The work involves the placement of fill within 1.17 acres of two unnamed tributaries and adjacent wetlands in conjunction with the reconstruction of 1.36 miles of U.S. Route 7 from mile marker 1.35 to mile marker 2.755 in Pittsford, Vermont. The purpose of the project is to bring this section of roadway up to National Highway Standards. Improvements will include roadway widening to include two 12' wide travel lanes and two 8' wide shoulders, and replacement of three stream crossing structures.

The project will permanently impact approximately 3,085 sq. ft. (0.07 acre) of two unnamed tributaries and 16,086 sq. ft. (0.37 acre) of adjacent wetlands. The work will temporarily impact approximately 1,085 sq. ft. (0.02 acre) of two unnamed tributaries and 30,774 sq. ft. (0.71 acre) of adjacent wetlands. The project includes the replacement of Bridge No. 106, Bridge No. 107, and Bridge No. 107A along the two unnamed tributaries with improved stream crossing structures that meet hydraulic and aquatic organism passage standards. Temporary roadway relocation is planned to bypass traffic during construction and accounts for the majority of temporary wetland impacts associated with the project. The wetlands to be impacted are emergent and scrub-shrub wetlands immediately adjacent to a heavily travelled highway and function primarily to maintain water quality.

See attached table of waters and wetlands

State: Vermont County: Rutland City: Pittsford
Coordinates of site (lat/long in degree decimal format):
Beginning Lat. 43.700587 ° N, Long. -73.010099 ° W
End Lat. 43.685291 ° N, Long. -72.992677 ° W
Universal Transverse Mercator: 18

Name of nearest waterbody: The project impacts wetlands and unnamed tributaries, which flow to Furnace Brook, then into Otter Creek, the nearest Traditional Navigable Waterway (TNW).

Identify (estimate) amount of waters in the review area:

Non-wetland waters: ____ linear feet: width (ft) and/or 0.09 acres.
Cowardin Class: R5
Stream Flow: Perennial

Wetlands: 46,860 sq. ft. (1.08 acres)
Cowardin Class: PEM, PSS, PFO

Name of any water bodies on the site that have been identified as Section 10 waters:

Tidal: NA

Non-Tidal: NA

5. Review performed for site evaluation (check all that apply):

☒ Office (Desk) Determination. Date: September 3, 2019

☒ Field Determination. Date(s): April 30, 2019

a. The Corps of Engineers believes that there may be jurisdictional waters of the United States on the subject site, and the permit applicant or other affected party who requested this preliminary JD is hereby advised of his or her option to request and obtain an approved jurisdictional determination (JD) for that site. Nevertheless, the permit applicant or other person who requested this preliminary JD has declined to exercise the option to obtain an approved JD in this instance and at this time.

b. In any circumstance where a permit applicant obtains an individual permit, or a Nationwide General Permit (NWP) or other general permit verification requiring “pre-construction notification” (PCN), or requests verification for a non-reporting NWP or other general permit, and the permit applicant has not requested an approved JD for the activity, the permit applicant is hereby made aware of the following: (1) the permit applicant has elected to seek a permit authorization based on a preliminary JD, which does not make an official determination of jurisdictional waters; (2) that the applicant has the option to request an approved JD before accepting the terms and conditions of the permit authorization, and that basing a permit authorization on an approved JD could possibly result in less compensatory mitigation being required or different special conditions; (3) that the applicant has the right to request an individual permit rather than accepting the terms and conditions of the NWP or other general permit authorization; (4) that the applicant can accept a permit authorization and thereby agree to comply with all the terms and conditions of that permit, including whatever mitigation requirements the Corps has determined to be necessary; (5) that undertaking any activity in reliance upon the subject permit authorization without requesting an approved JD constitutes the applicant’s acceptance of the use of the preliminary JD, but that either form of JD will be processed as soon as is practicable; (6) accepting a permit authorization (e.g., signing a proffered individual permit) or undertaking any activity in reliance on any form of Corps permit authorization based on a preliminary JD constitutes agreement that all wetlands and other water bodies on the site affected in any way by that activity are jurisdictional waters of the United States, and precludes any challenge to such jurisdiction in any administrative or judicial compliance or enforcement action, or in any administrative appeal or in any Federal court; and (7) whether the applicant elects to use either an approved JD or a preliminary JD, that JD will be processed as soon as is practicable. Further, an approved JD, a proffered individual permit (and all terms and conditions contained therein), or individual permit denial can be administratively appealed pursuant to 33 C.F.R. Part 331, and that in any administrative appeal, jurisdictional issues can be raised (see 33 C.F.R. 331.5(a)(2)). If, during that administrative appeal, it becomes necessary to make an official determination whether CWA jurisdiction exists over a site, or to provide an official delineation of jurisdictional waters on the site, the Corps will provide an approved JD to accomplish that result, as soon as is practicable.

This preliminary JD finds that there “*may be*” waters of the United States on the subject project site, and identifies all aquatic features on the site that could be affected by the proposed activity, based on the following information:

c. **Supporting Data. Data reviewed for Preliminary JD** - checked items should be included in case file and, where checked and requested, appropriately reference sources below):

☒ Maps, plans, plots or plat submitted by or on behalf of the applicant/consultant: “Project Location Map for Pittsford NH 0019-3 (491)” (dated “July 25, 2018”), “Resource Map – Field Delineated Wetlands & Streams” (dated “7/24/18”, last revised “9/27/18”)

☒ Data sheets prepared/submitted by or on behalf of the applicant/consultant. Dated “6/12/18” completed by April Moulaert, PWS.

☒ Office concurs with data sheets/delineation report.

☐ Office does not concur with data sheets/delineation report.

☐ Data sheets prepared by the Corps:

☐ Corps navigable waters’ study:

☐ U.S. Geological Survey Hydrologic Atlas:

☐ USGS NHD data.

☐ USGS 8 and 12 digit HUC maps.

☐ U.S. Geological Survey map(s). Cite scale & quad name:

☐ USDA Natural Resources Conservation Service Soil Survey. Citation:

☐ National wetlands inventory map(s). Cite name:

☐ State/Local wetland inventory map(s):

☐ FEMA/FIRM maps:

☐ 100-year Floodplain Elevation is: (National Geodetic Vertical Datum of 1929)

☐ Photographs: ☐ Aerial (Name & Date):

or ☐ Other (Name & Date):

☐ Previous determination(s). File no. and date of response letter:

☐ Other information (please specify):

IMPORTANT NOTE: The information recorded on this form has not necessarily been verified by the Corps and should not be relied upon for later jurisdictional determinations.

REPELLA.ANGEL
A.C.1387974934

Digitally signed by
REPELLA.ANGELA.C.1387974934
Date: 2019.09.05 06:59:14
-04'00'

Angela C. Repella
Regulatory Project Manager

September 5, 2019
Date

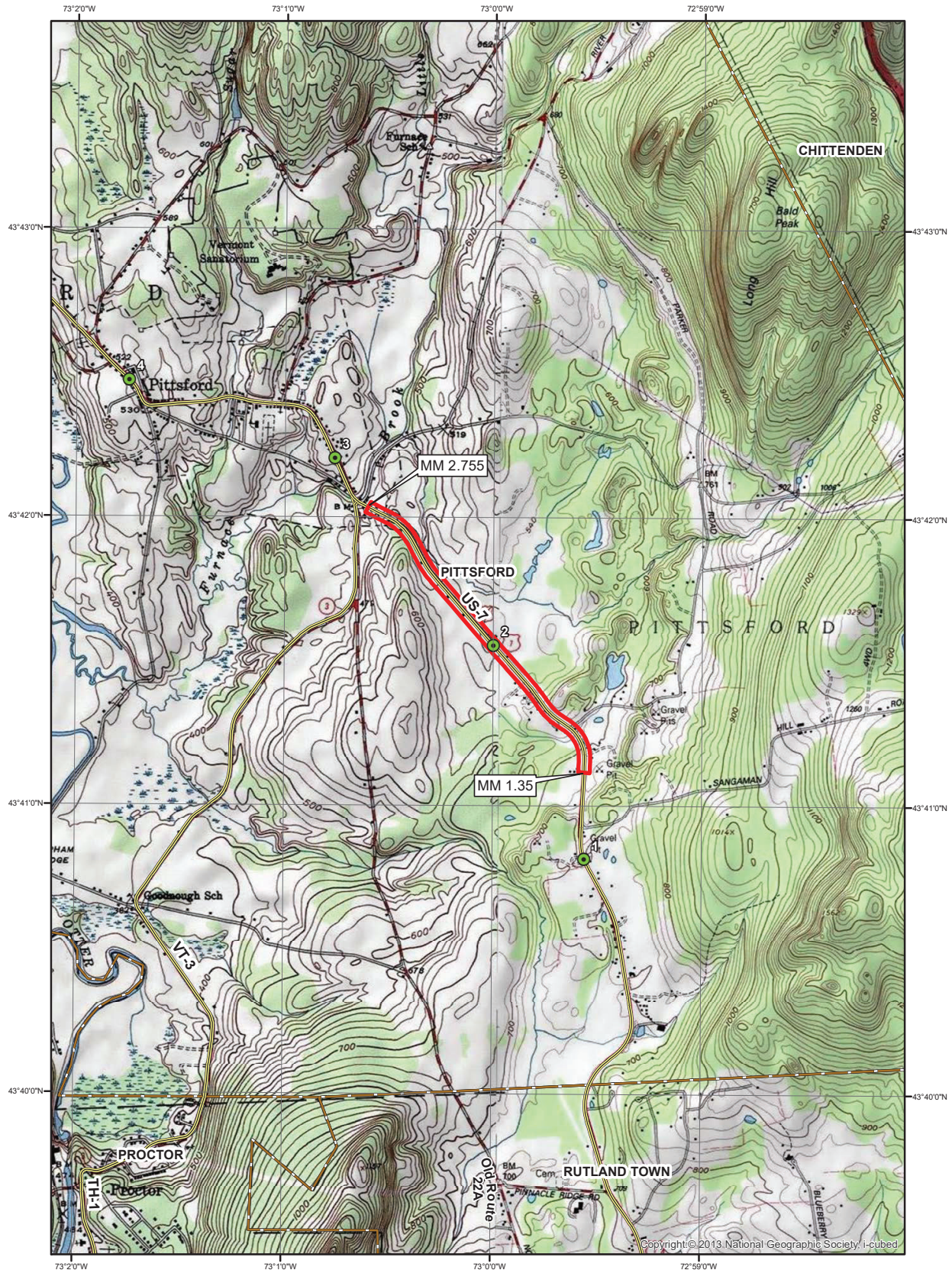

James Brady
Vermont Agency of Transportation

September 5, 2019
Date

WETLAND AND WATERS TABLE

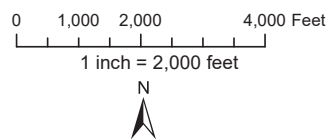
Estimate aquatic resource in review area		Class of aquatic resource					
Water #	Cowardin	Type (optional)	Lat.	Long.	SF	LF	
Wetland FG	PEM		43.687313	-72.993444	14842		Non-Sec 10 Wetland
Stream FG-1	R5		43.687313	-72.993444	606		Non-Sec 10 - Stream
Wetland CDE	PEM		43.691738	-72.998432	10284		Non-Sec 10 Wetland
Wetland BH	PEM		43.694911	-73.002444	18460		Non-Sec 10 Wetland
Stream FG-2	R5		43.694911	-73.002444	1306		Non-Sec 10 Stream
Wetland A	PEM		43.696945	-73.004771	3274		Non-Sec 10 Wetland
Stream A	R5		43.698053	-73.005857	2256		Non-Sec 10 Stream

Project Location Map for Pittsford NH 019-3 (491)
US Route 7
Pittsford, Vermont



Legend

- Mile Marker
- Study Area
- Major Road
- Town Boundary

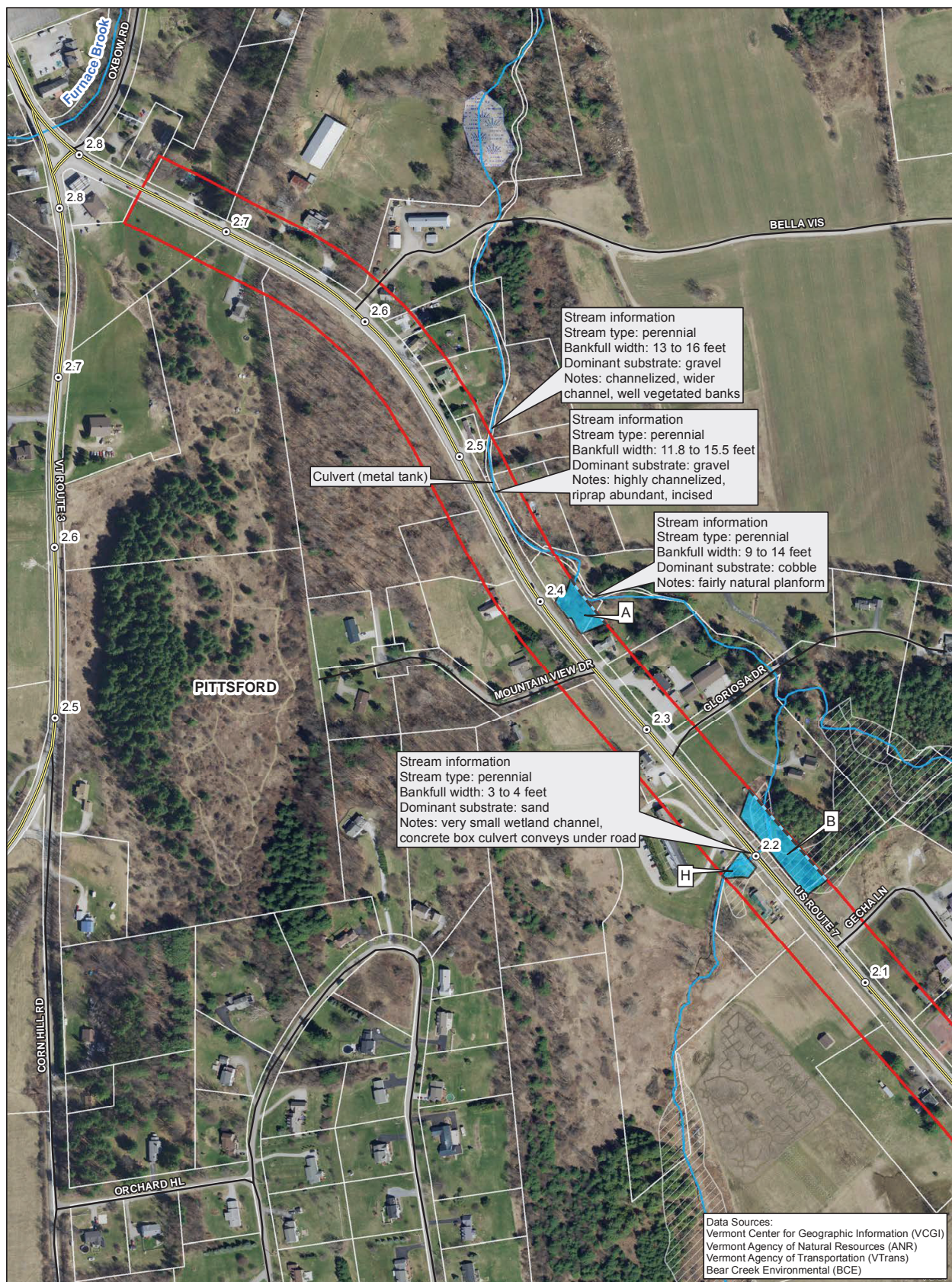


Study area includes 100 feet from the road edge on each side of US Route 7 for 1.405 linear miles.

Data sources include:
Vermont Center for Geographic Information (VCGI)
Vermont Agency of Natural Resources (ANR)
Vermont Agency of Transportation (VTrans)
Bear Creek Environmental (BCE)

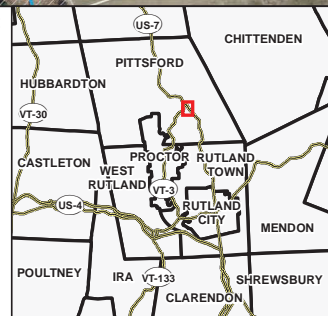
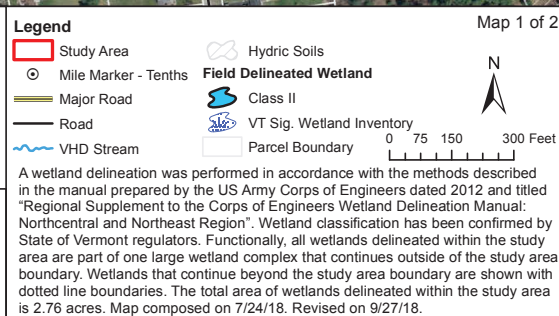
Map composed on July 25, 2018.

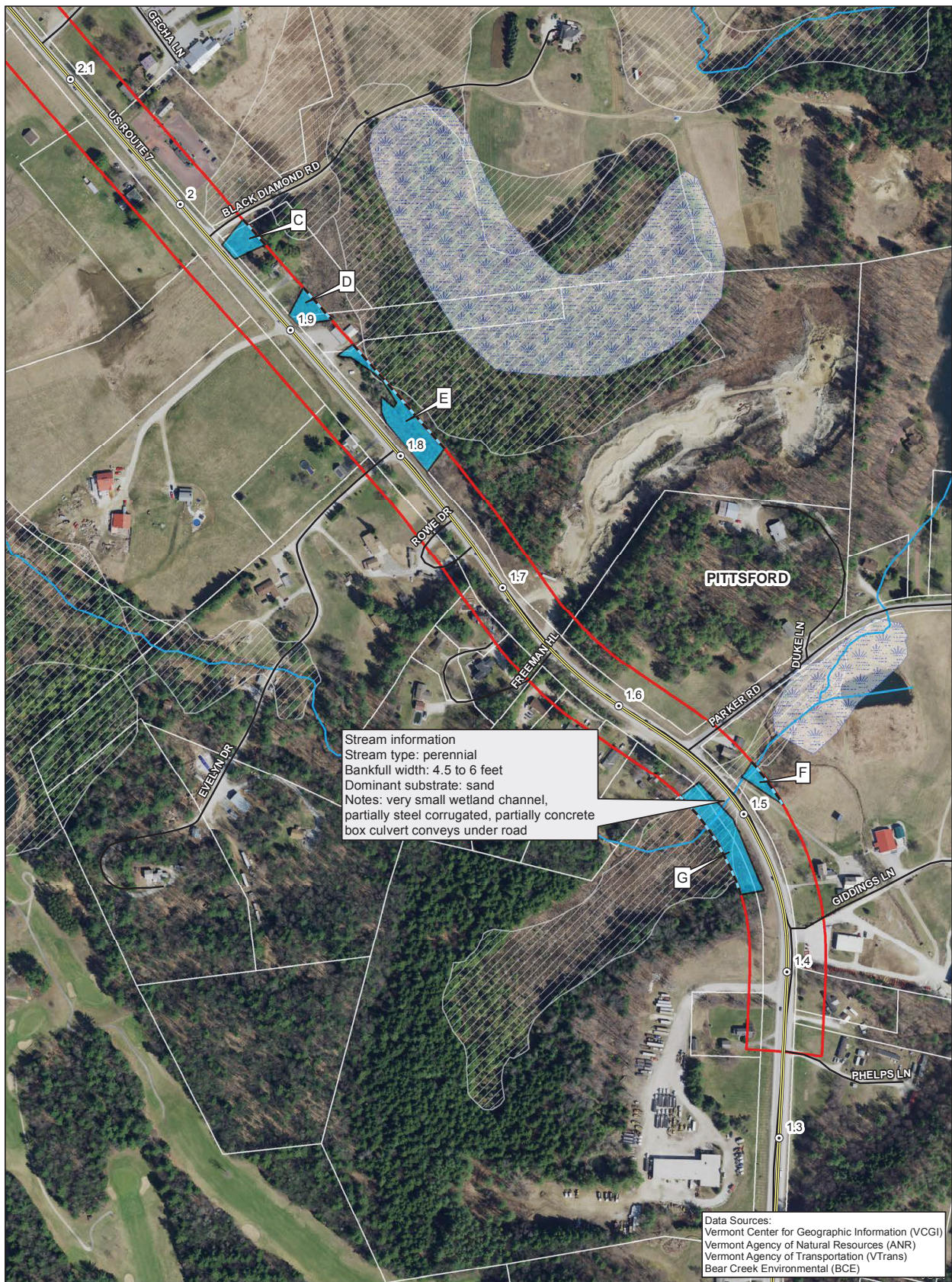




Resource Map - Field Delineated Wetlands & Streams

Vermont Agency of Transportation
Pittsford NH 019-3 (491) Segment 1
US Route 7
Pittsford, Vermont
Rutland County





Resource Map - Field Delineated Wetlands & Streams Vermont Agency of Transportation Pittsford NH 019-3 (491) Segment 1 US Route 7 Pittsford, Vermont Rutland County



Legend

- Study Area
- Mile Marker - Tenths
- Major Road
- Road
- VHD Stream
- Hydic Soils
- Field Delineated Wetland**
 - Class II
 - VT Sig. Wetland Inventory
 - Parcel Boundary

Map 2 of 2

0 75 150 300 Feet

A wetland delineation was performed in accordance with the methods described in the manual prepared by the US Army Corps of Engineers dated 2012 and titled "Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Region". Wetland classification has been confirmed by State of Vermont regulators. Functionally, all wetlands delineated within the study area are part of one large wetland complex that continues outside of the study area boundary. Wetlands that continue beyond the study area boundary are shown with dotted line boundaries. The total area of wetlands delineated within the study area is 2.76 acres. Map composed on 7/24/18. Revised on 9/27/18.

