STATE OF NEW HAMPSHIRE
INTER-DEPARTMENT COMMUNICATION

DATE: October 14, 2016

FROM: Matt Urban
Wetlands Program Manager

AT (OFFICE): Department of Transportation

Bureau of Environment

SUBJECT **Permit Amendment**
Farmington, 16146
(DES#2016-00270)

TO Gino Infascelli, Public Works Permitting Officer
New Hampshire Wetlands Bureau
29 Hazen Drive, P.O. Box 95
Concord, NH 03302-0095

Forwarded herewith is the amendment package prepared by AJ Colman and Sons and E.D. Swett. This amendment package includes an additional 800 SF of temporary impacts to facilitate improved access for the proposed shoal removal. In addition, this package includes previously forwarded information on September 26, 2016 for the addition of 16 SF for the additional temporary impacts associated with the driving of steel H-Piles for the installation of the temporary detour bridge. The NHDOT supports this amendment request, the plan to add additional supports (H-Piles) to strengthen the temporary bridge is a good decision.

This amendment request results in a total increase of 816 SF temporary impacts.

A payment voucher has been processed for this application (Voucher #460571) in the amount of $163.20 for the additional impacts.

If and when this amendment meets with the approval of the Bureau, please send the amended permit directly to Matt Urban, Wetlands Program Manager, Bureau of Environment.

MRU:mru
Enclosures
cc:
BOE Original
Town of Farmington Conservation Commission
Cocheco River Local Advisory Committee
Michael Hicks, ACOE
James Bowles, Bureau of Construction
Jason Leavitt, Bureau of Construction
Randy Talon, Environment

S:\Environment\PROJECTS\FARMINGTON\16146\Wetland\AMEND.doc

E.D. SWETT, INC.

8 INDUSTRIAL PARK DRIVE
CONCORD, NEW HAMPSHIRE 03301-8512

Phone: (603) 224-7401
Fax: (603) 224-5006

October 12, 2016

Randy S. Talon
NHDOT Environmental Coordinator
Bureau of Environment
7 Hazen Drive, P.O. Box 483
Room 160
Concord, NH 03302-0483

Re: Farmington 16146 – Additional Wetland Impacts

Mr. Talon,

Please find attached sheets illustrating additional temporary wetland impacts necessary for the construction of the Farmington 16146 project. As previously forwarded on September 26, 2016 to NHDES for review there is approximately 16 SF of additional temporary impacts associated with the driving of steel piling for the temporary bridge bent. On behalf of E.D. Swett's subcontractor, A.J. Coleman, the attached plans and narrative describe the additional temporary impacts associated with the shoal removal in the Cocheco River. Once NHDOT obtains permission from NHDES, TF Moran will amend the project SWPPP to reflect the BMP's required to perform the work.

If you have any questions or concerns please do not hesitate to contact me.

Thanks,

Jonathan G. Pitre, PE
President

cc: Job File
Jim Bowles via email
Jason Leavitt via email

Jonathan Pitre

From: Jonathan Pitre <jon@edswett.com>
Sent: Monday, September 26, 2016 4:13 PM
To: 'Gino.Infascelli@des.nh.gov'
Cc: 'Talon, Randy'; 'Leavitt, Jason'; 'Bowles, James'; 'murban@dot.state.nh.us'; Brian@edswett.com; 'Bryan Levesque (blevesque@tfmoran.com)'
Subject: Farmington 16146 - Temporary Bridge Bent Installation Procedure
Attachments: Farmington 16146 - 501.2 - Temp Bridge w Approaches-WETLANDS.PDF

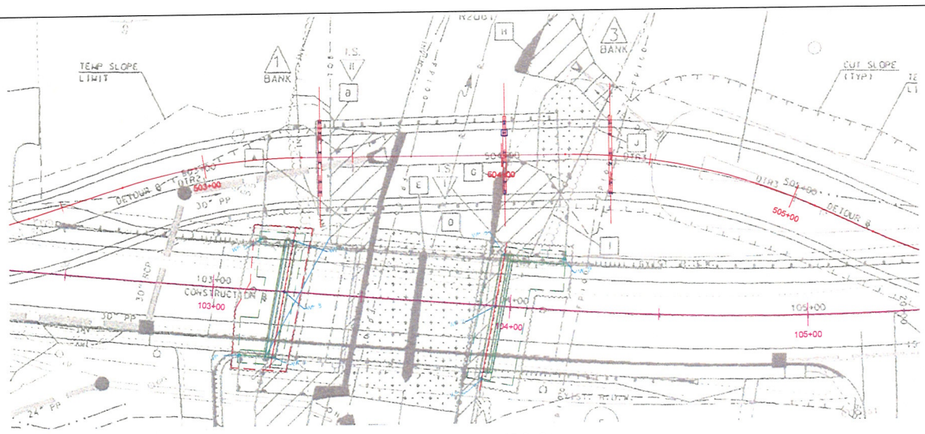
Gino,

Please find attached the temporary bridge bent location overlaid on the wetland impact plan for the Farmington 16146 project. There will be four 14x73 h-piles located outside the defined impact areas (two are located in the permanent impact area for a total of six), which have 0.15 SF/pile of cross-sectional area. The influence area of driving the h-piles with a vibratory hammer would be at most 4 SF. The influence zone can be described as a slight depression in the soil caused by the densification of material around the h-pile induced by the vibrations. A crawler crane will be located behind the top of bank on the eastern side of the Cocheco River to install and extract the h-piles as depicted on the attached sheet. There will be no equipment inside the top of bank other than the vibratory hammer located on the top of the h-pile during driving and extraction. If you need any more information please do not hesitate to contact me.

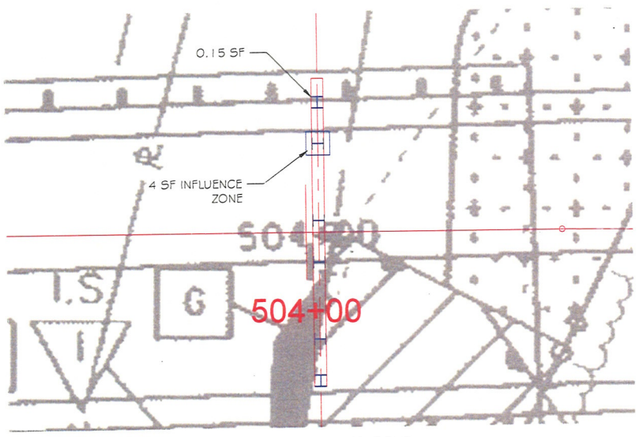
Thanks,

Jonathan Pitre, PE
President

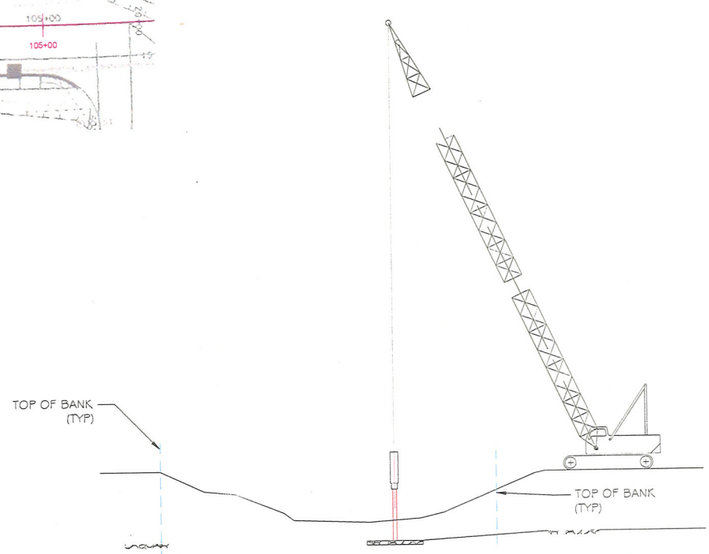
8 Industrial Park Drive
Concord, NH 03301-8512
Tel. (603)224-7401 x18
Cell (603)545-4465
Fax (603)224-5006
jon@edswett.com



PLAN VIEW - DIVERSION



PLAN VIEW - PIER BENT



ELEVATION - TYP. PILE DRIVING OPERATIONS

E.D.SWETT	E.D. Swett, Inc. 8 Industrial Park Drive Concord, NH 03301-8512 Phone (603) 224-7401 Fax (603) 224-5006 e-mail: chris@edswett.com	PROJECT: NH 153 OVER COCHECO RIVER	LOCATION: FARMINGTON, NH	ITEM 501.2 - TEMPORARY BRIDGE INCLUDING APPROACHES	Revisions Rev # / Date / Description	DATE: SEPTEMBER 2016	
		PROJECT NO.: 16146	PROSE NO.: 096/141	CONCEPT PLAN - PLAN, ELEVATION AND SECTIONS		DRAWN: CWR	
						SHEET: TEMP 1	

GENERAL CONTRACTOR • READY MIX CONCRETE • AGGREGATES • SITE WORK

ALVIN J. COLEMAN
& SON, INC.

9 NH Route 113, Conway, New Hampshire 03818

Established 1940

Tel (603) 447-5936 • Fax (603) 447-5839

October 11, 2016

Jonathan Pitre
President
E.D. Swett, Inc.
8 Industrial Park Drive
Concord, NH 03301-8512

RE: NHDOT Farmington 16146 - Shoal Excavation

Jonathan,

As you are aware part of this contract involves excavation of shoal within the river bed. Reference Plan Sheet 18 and 30 for additional information. This work was originally going to take place next season but we think it is wise to consider performing this work immediately.

The State is experiencing drought conditions and the area depicted as shoal removal is currently dry and separated from any flowing water. With that in mind we think that this is the absolute best time to get this work done. By installing perimeter control via silt fence (or equal) we think this work can be completed with haste and little impact.

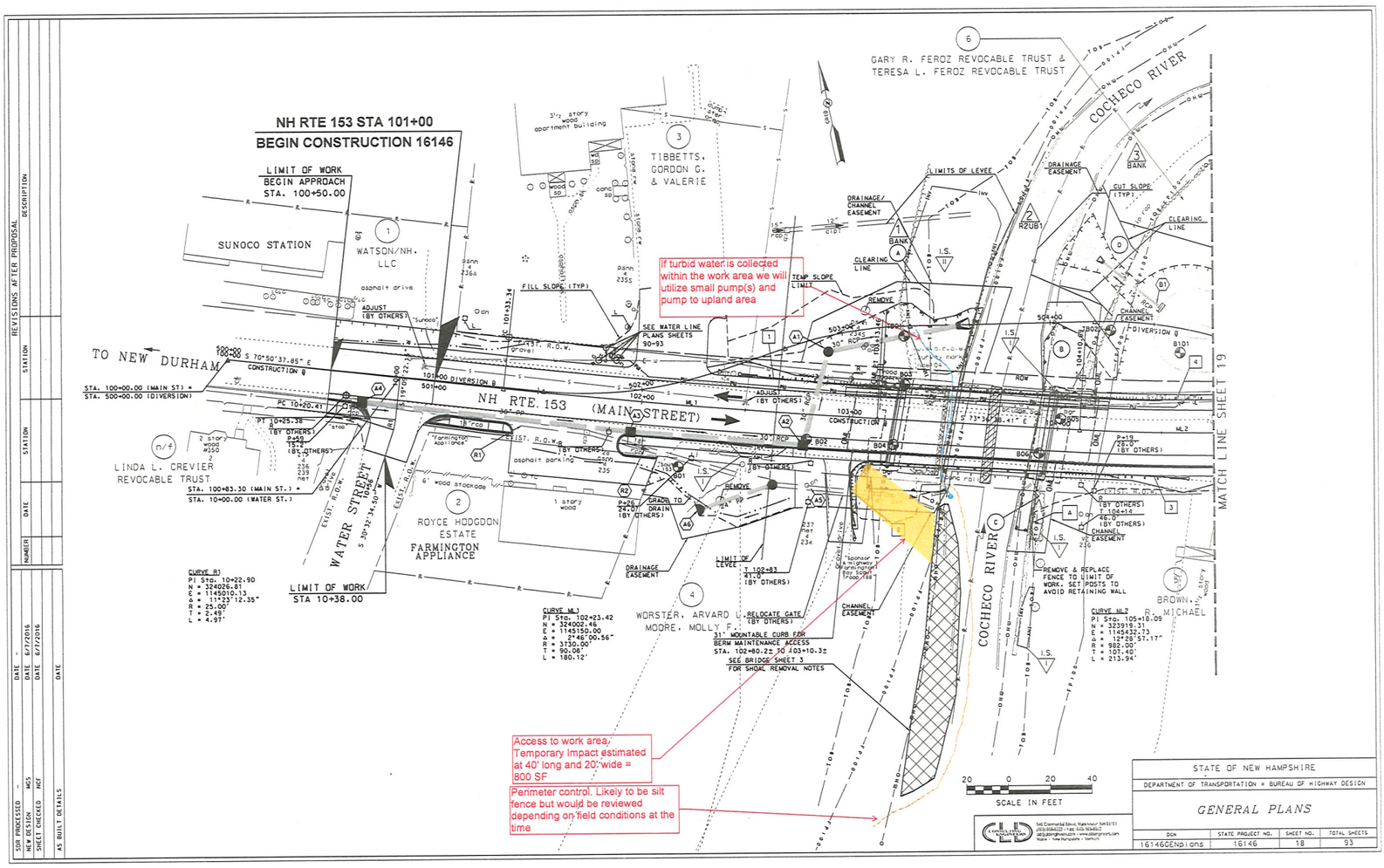
We would have pump capacity available in the event that turbid water was held within our work area. We would find an upland area to pump to with proper BMPs in place to filter water before it reentered the river bed.

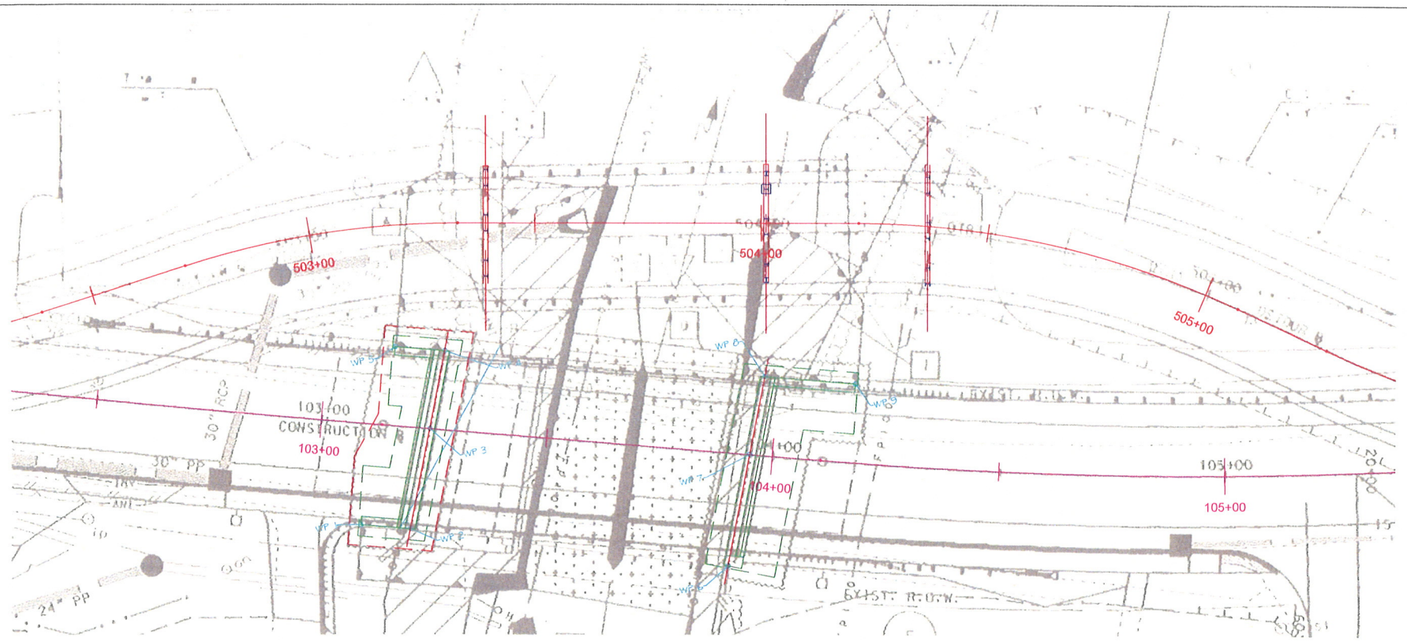
Access would be relatively low impact as well above and beyond what would have already been temporarily disturbed throughout the project life cycle. Please refer to the attached plan sheet depicting our general approach to achieve this shoal removal. *Please also consider that impact resulting from this access will be temporary impact with an approximate area of 800 SF.*

If you need anything further please let us know.

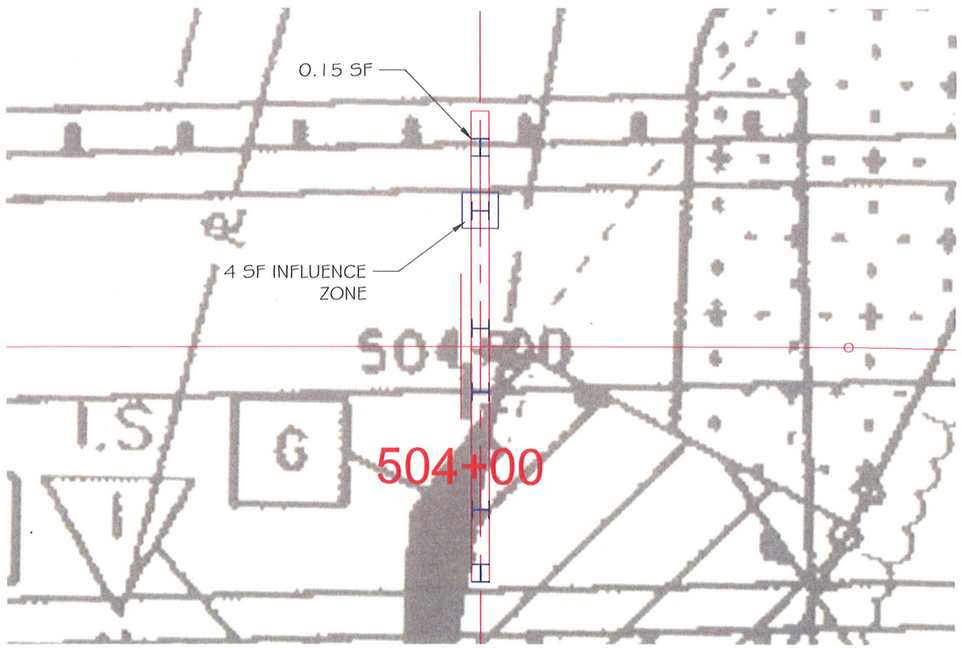
Regards,

Robbie Knox, PMP
Project Development

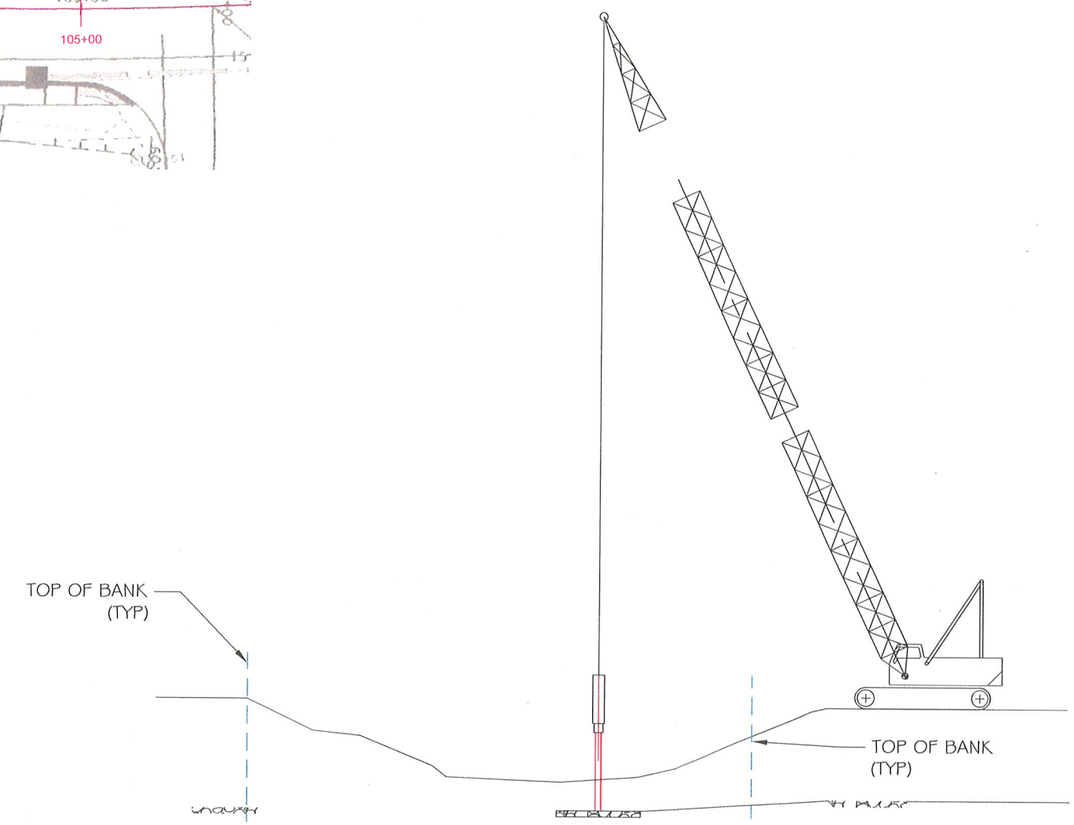

NH RTE 153 STA 101+00
BEGIN CONSTRUCTION 16146
LIMIT OF WORK
BEGIN APPROACH
STA. 100+50.00
SUNOCO STATION
WATSON/NH, LLC
TIBBETTS, GORDON G. & VALERIE
GARY R. FEROZ REVOCABLE TRUST & TERESA L. FEROZ REVOCABLE TRUST
COCHECO RIVER
TO NEW DURHAM
NH RTE. 153 (MAIN STREET)
LINDA L. CREVIER REVOCABLE TRUST
WATER STREET
ROYCE HODGDON ESTATE
FARMINGTON APPLIANCE
WORSTER, ARVARD L.
MOORE, MOLLY F.
BROWN, R. MICHAEL
MATCH LINE SHEET 19
If turbid water is collected within the work area we will utilize small pump(s) and pump to upland area
Access to work area, Temporary impact estimated at 40' long and 20' wide = 800 SF
Perimeter control. Likely to be silt fence but would be reviewed depending on field conditions at the time
SCALE IN FEET
STATE OF NEW HAMPSHIRE
DEPARTMENT OF TRANSPORTATION + BUREAU OF HIGHWAY DESIGN
GENERAL PLANS
DGN 16146GENDIGNS
STATE PROJECT NO. 16146
SHEET NO. 18
TOTAL SHEETS 93
REVISIONS AFTER PROPOSAL
NUMBER DATE STATION STATION DESCRIPTION
SDR PROCESSED - DATE -
NEW DESIGN MGS DATE 6/7/2016
SHEET CHECKED MGT DATE 6/7/2016
AS BUILT DETAILS DATE



PLAN VIEW - DIVERSION



PLAN VIEW - PIER BENT

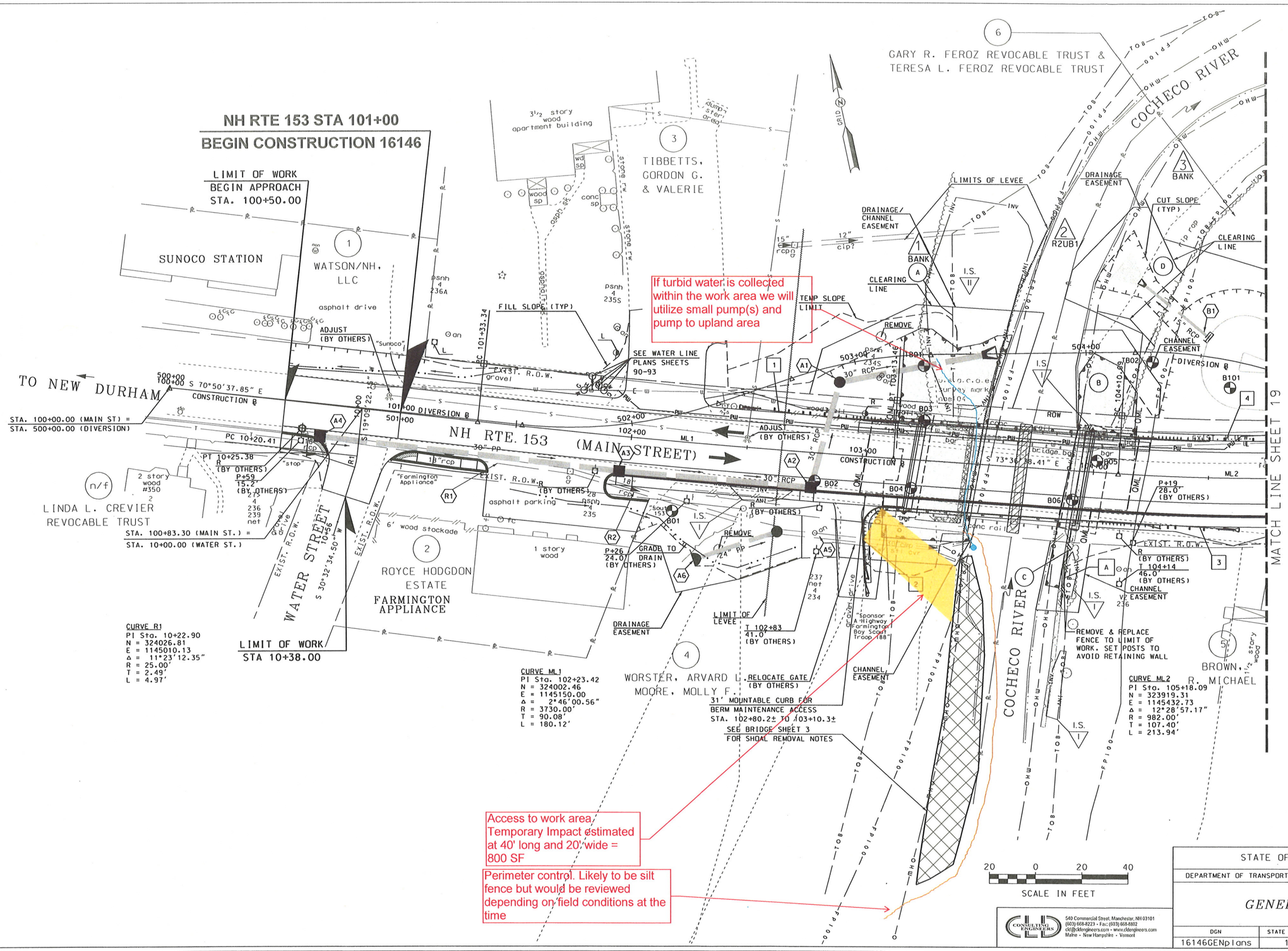


ELEVATION - TYP. PILE DRIVING OPERATIONS

E.D. Swett, Inc.
8 Industrial Park Drive
Concord, NH 03301-8512
Phone (603) 224-7401
Fax (603) 224-5006
e-mail: chris@edswett.com

PROJECT: NH 153 OVER COCHECO RIVER	LOCATION: FARMINGTON, NH	ITEM 501.2 - TEMPORARY BRIDGE INCLUDING APPROACHES	DATE: SEPTEMBER 2016
PROJECT NO.: 16146	BRIDGE NO.: 096/141	CONCEPT PLAN - PLAN, ELEVATION AND SECTIONS	BY: CWR
			SHEET: TEMP 1

Revisions		
Rev #	Date	Description



NUMBER	DATE	STATION	DESCRIPTION

REVISIONS AFTER PROPOSAL

SDR PROCESSED	–	DATE	–
NEW DESIGN	MGS	DATE	6/7/2016
SHEET CHECKED	NCF	DATE	6/7/2016
AS BUILT DETAILS		DATE	

STATE OF NEW HAMPSHIRE

DEPARTMENT OF TRANSPORTATION • BUREAU OF HIGHWAY DESIGN

GENERAL PLANS

CLD CONSULTING ENGINEERS
540 Commercial Street, Manchester, NH 03101
(603) 668-8223 • Fax: (603) 668-8802
cld@cldengineers.com • www.cldengineers.com
Maine • New Hampshire • Vermont

DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
16146GENplans	16146	18	93

E.D. SWETT, INC.

8 INDUSTRIAL PARK DRIVE
CONCORD, NEW HAMPSHIRE 03301-8512

Phone: (603) 224-7401
Fax: (603) 224-5006

October 12, 2016

Randy S. Talon
NHDOT Environmental Coordinator
Bureau of Environment
7 Hazen Drive, P.O. Box 483
Room 160
Concord, NH 03302-0483

Re: Farmington 16146 – Additional Wetland Impacts

Mr. Talon,

Please find attached sheets illustrating additional temporary wetland impacts necessary for the construction of the Farmington 16146 project. As previously forwarded on September 26, 2016 to NHDES for review there is approximately 16 SF of additional temporary impacts associated with the driving of steel piling for the temporary bridge bent. On behalf of E.D. Swett's subcontractor, A.J. Coleman, the attached plans and narrative describe the additional temporary impacts associated with the shoal removal in the Cocheco River. Once NHDOT obtains permission from NHDES, TF Moran will amend the project SWPPP to reflect the BMP's required to perform the work.

If you have any questions or concerns please do not hesitate to contact me.

Thanks,

Jonathan G. Pitre, PE
President

cc: Job File
Jim Bowles via email
Jason Leavitt via email

Jonathan Pitre

From: Jonathan Pitre <jon@edswett.com>
Sent: Monday, September 26, 2016 4:13 PM
To: 'Gino.Infascelli@des.nh.gov'
Cc: 'Talon, Randy'; 'Leavitt, Jason'; 'Bowles, James'; 'murban@dot.state.nh.us'; Brian@edswett.com; 'Bryan Levesque (blevesque@tfmoran.com)'
Subject: Farmington 16146 - Temporary Bridge Bent Installation Procedure
Attachments: Farmington 16146 - 501.2 - Temp Bridge w Approaches-WETLANDS.PDF

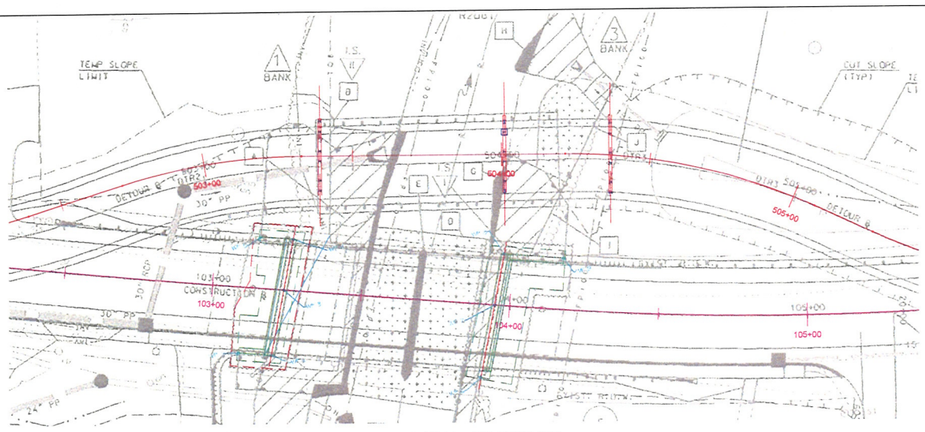
Gino,

Please find attached the temporary bridge bent location overlaid on the wetland impact plan for the Farmington 16146 project. There will be four 14x73 h-piles located outside the defined impact areas (two are located in the permanent impact area for a total of six), which have 0.15 SF/pile of cross-sectional area. The influence area of driving the h-piles with a vibratory hammer would be at most 4 SF. The influence zone can be described as a slight depression in the soil caused by the densification of material around the h-pile induced by the vibrations. A crawler crane will be located behind the top of bank on the eastern side of the Cocheco River to install and extract the h-piles as depicted on the attached sheet. There will be no equipment inside the top of bank other than the vibratory hammer located on the top of the h-pile during driving and extraction. If you need any more information please do not hesitate to contact me.

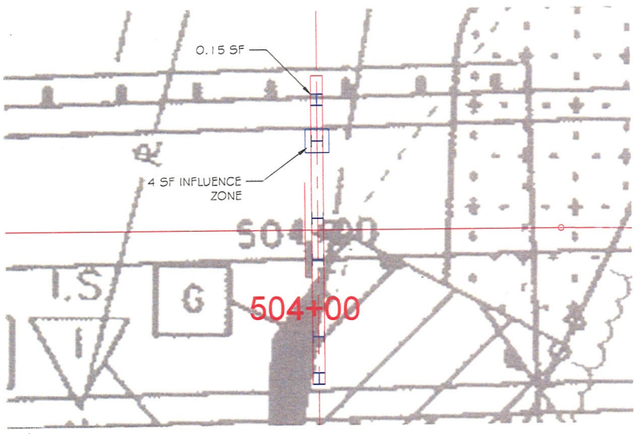
Thanks,

Jonathan Pitre, PE
President

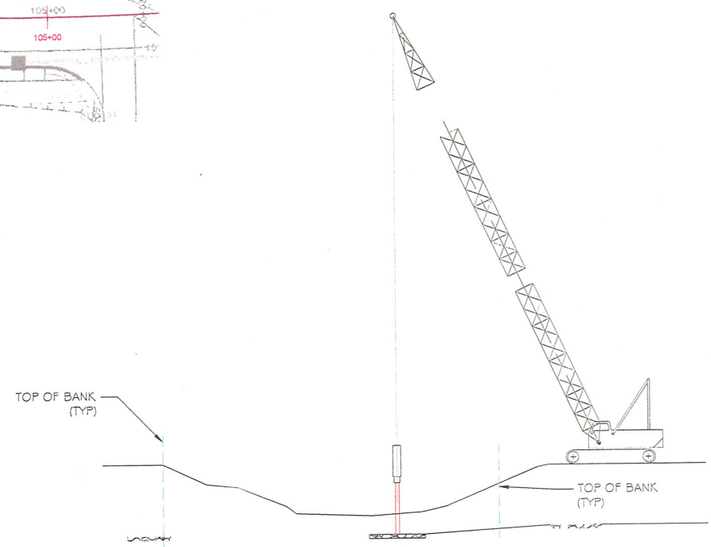
8 Industrial Park Drive
Concord, NH 03301-8512
Tel. (603)224-7401 x18
Cell (603)545-4465
Fax (603)224-5006
jon@edswett.com



PLAN VIEW - DIVERSION



PLAN VIEW - PIER BENT



ELEVATION - TYP. PILE DRIVING OPERATIONS

E.D.SWETT	E.D. Swett, Inc. 8 Industrial Park Drive Concord, NH 03301-8512 Phone (603) 224-7401 Fax (603) 224-5006 e-mail: chris@edswett.com	PROJECT NH 153 OVER COCHECO RIVER	LOCATION FARMINGTON, NH	ITEM 501.2 - TEMPORARY BRIDGE INCLUDING APPROACHES	Revisions Rev # / Date / Description	DATE SEPTEMBER 2016	
		PROJECT NO. 16146	BRIDGE NO. 096/141	CONCEPT PLAN - PLAN, ELEVATION AND SECTIONS		BY CWR	
						SHEET TEMP 1	

GENERAL CONTRACTOR • READY MIX CONCRETE • AGGREGATES • SITE WORK

ALVIN J. COLEMAN
& SON, INC.

Established 1940

9 NH Route 113, Conway, New Hampshire 03818

Tel (603) 447-5936 • Fax (603) 447-5839

October 11, 2016

Jonathan Pitre
President
E.D. Swett, Inc.
8 Industrial Park Drive
Concord, NH 03301-8512

RE: NHDOT Farmington 16146 - Shoal Excavation

Jonathan,

As you are aware part of this contract involves excavation of shoal within the river bed. Reference Plan Sheet 18 and 30 for additional information. This work was originally going to take place next season but we think it is wise to consider performing this work immediately.

The State is experiencing drought conditions and the area depicted as shoal removal is currently dry and separated from any flowing water. With that in mind we think that this is the absolute best time to get this work done. By installing perimeter control via silt fence (or equal) we think this work can be completed with haste and little impact.

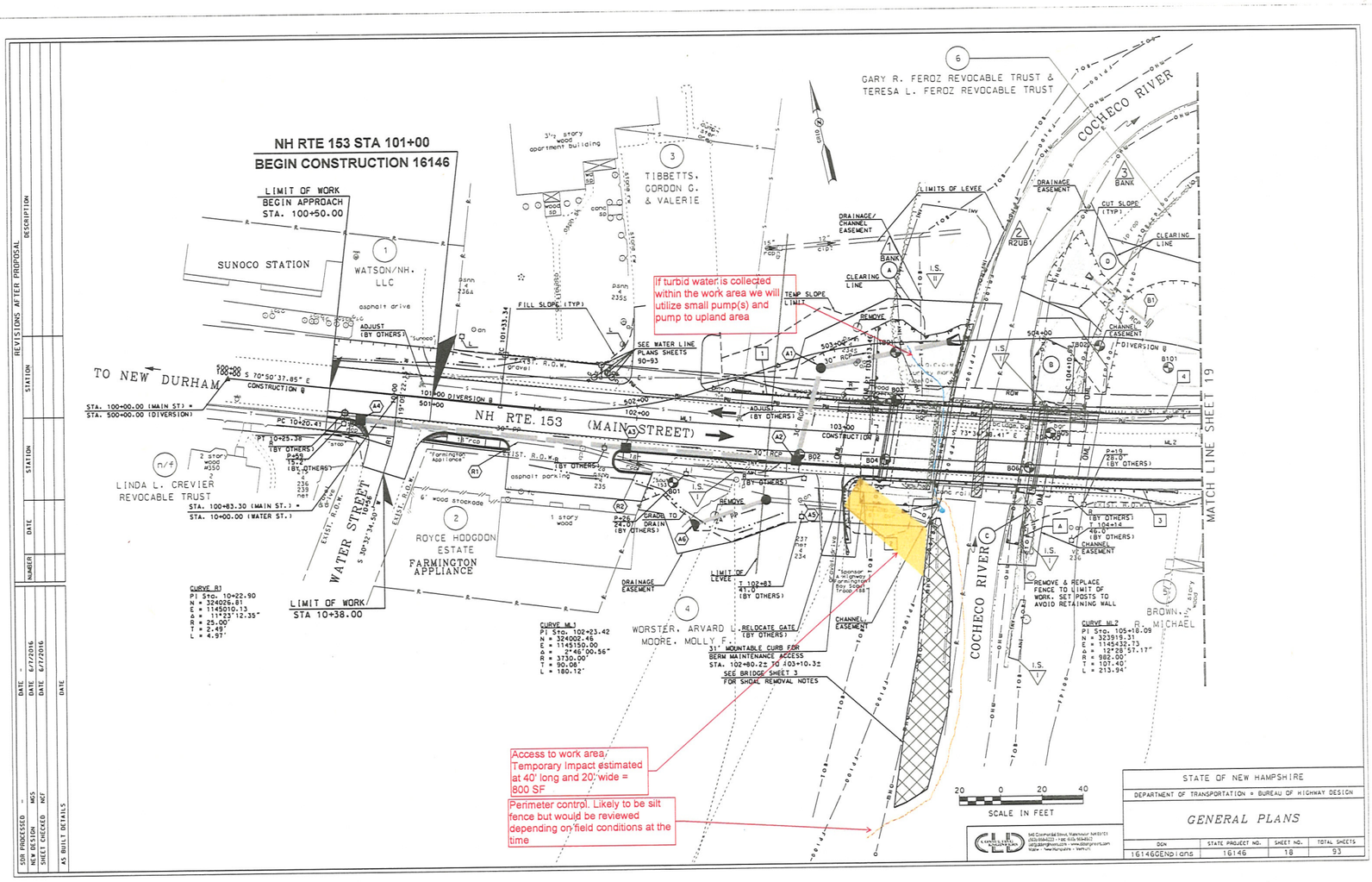
We would have pump capacity available in the event that turbid water was held within our work area. We would find an upland area to pump to with proper BMPs in place to filter water before it reentered the river bed.

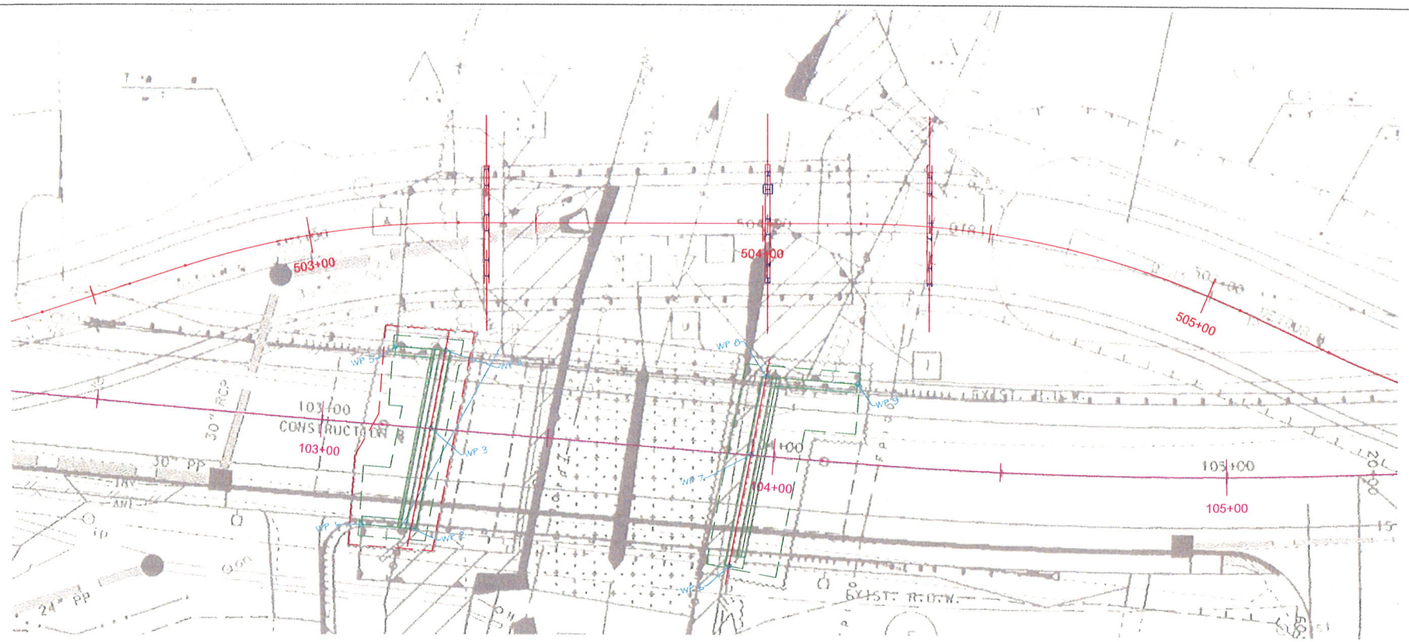
Access would be relatively low impact as well above and beyond what would have already been temporarily disturbed throughout the project life cycle. Please refer to the attached plan sheet depicting our general approach to achieve this shoal removal. *Please also consider that impact resulting from this access will be temporary impact with an approximate area of 800 SF.*

If you need anything further please let us know.

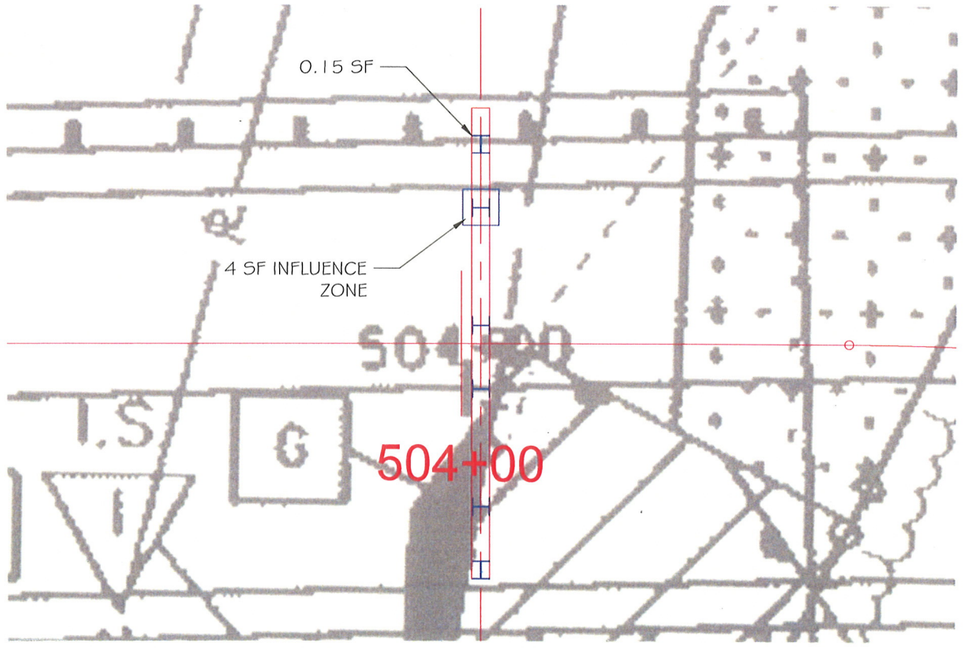
Regards,

Robbie Knox, PMP
Project Development

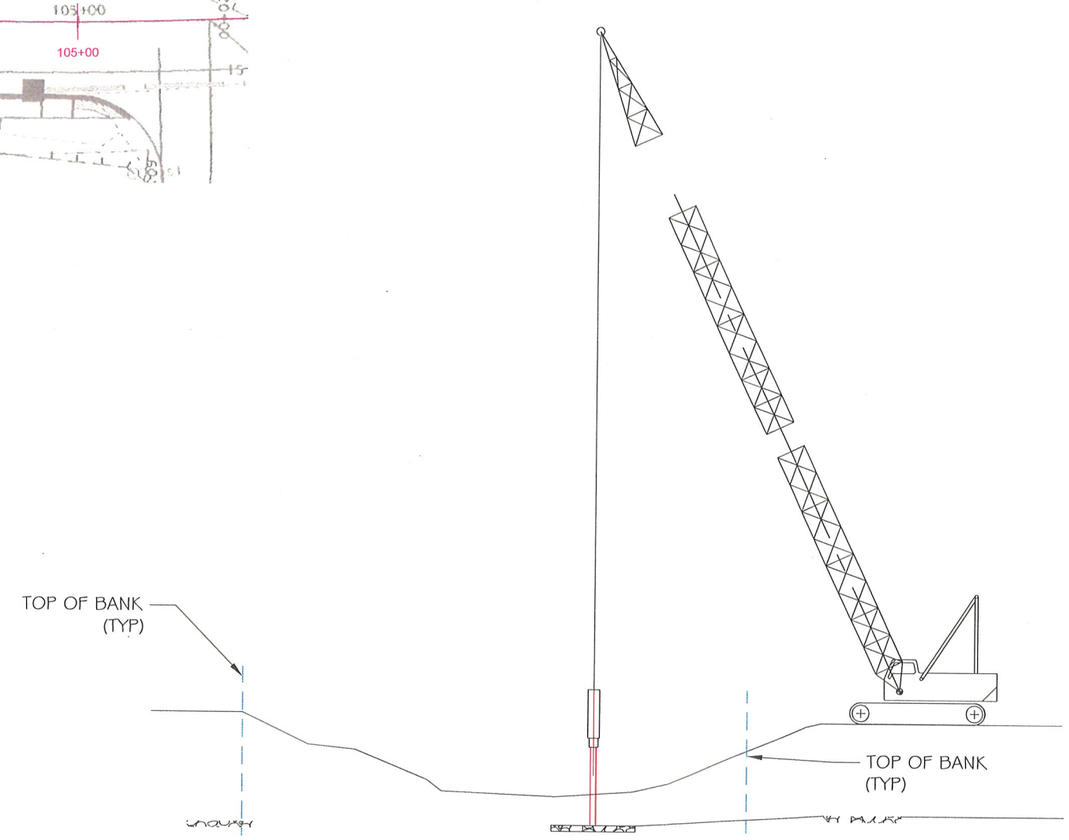

NH RTE 153 STA 101+00
BEGIN CONSTRUCTION 16146
LIMIT OF WORK
BEGIN APPROACH
STA. 100+50.00
SUNOCO STATION
WATSON/NH. LLC
TIBBETTS, GORDON G. & VALERIE
GARY R. FEROZ REVOCABLE TRUST & TERESA L. FEROZ REVOCABLE TRUST
COCHECO RIVER
If turbid water is collected within the work area we will utilize small pump(s) and pump to upland area
TO NEW DURHAM
NH RTE. 153 (MAIN STREET)
LINDA L. CREVIER REVOCABLE TRUST
WATER STREET
ROYCE HODGDON ESTATE
FARMINGTON APPLIANCE
LIMIT OF WORK
STA 10+38.00
WORSTER, ARVARD L. MOORE, MOLLY F.
BROWN, R. MICHAEL
MATCH LINE SHEET 19
Access to work area, Temporary impact estimated at 40' long and 20' wide = 800 SF
Perimeter control. Likely to be silt fence but would be reviewed depending on field conditions at the time
SCALE IN FEET
STATE OF NEW HAMPSHIRE
DEPARTMENT OF TRANSPORTATION • BUREAU OF HIGHWAY DESIGN
GENERAL PLANS
DGN 16146GENplans
STATE PROJECT NO. 16146
SHEET NO. 18
TOTAL SHEETS 93



PLAN VIEW - DIVERSION



PLAN VIEW - PIER BENT

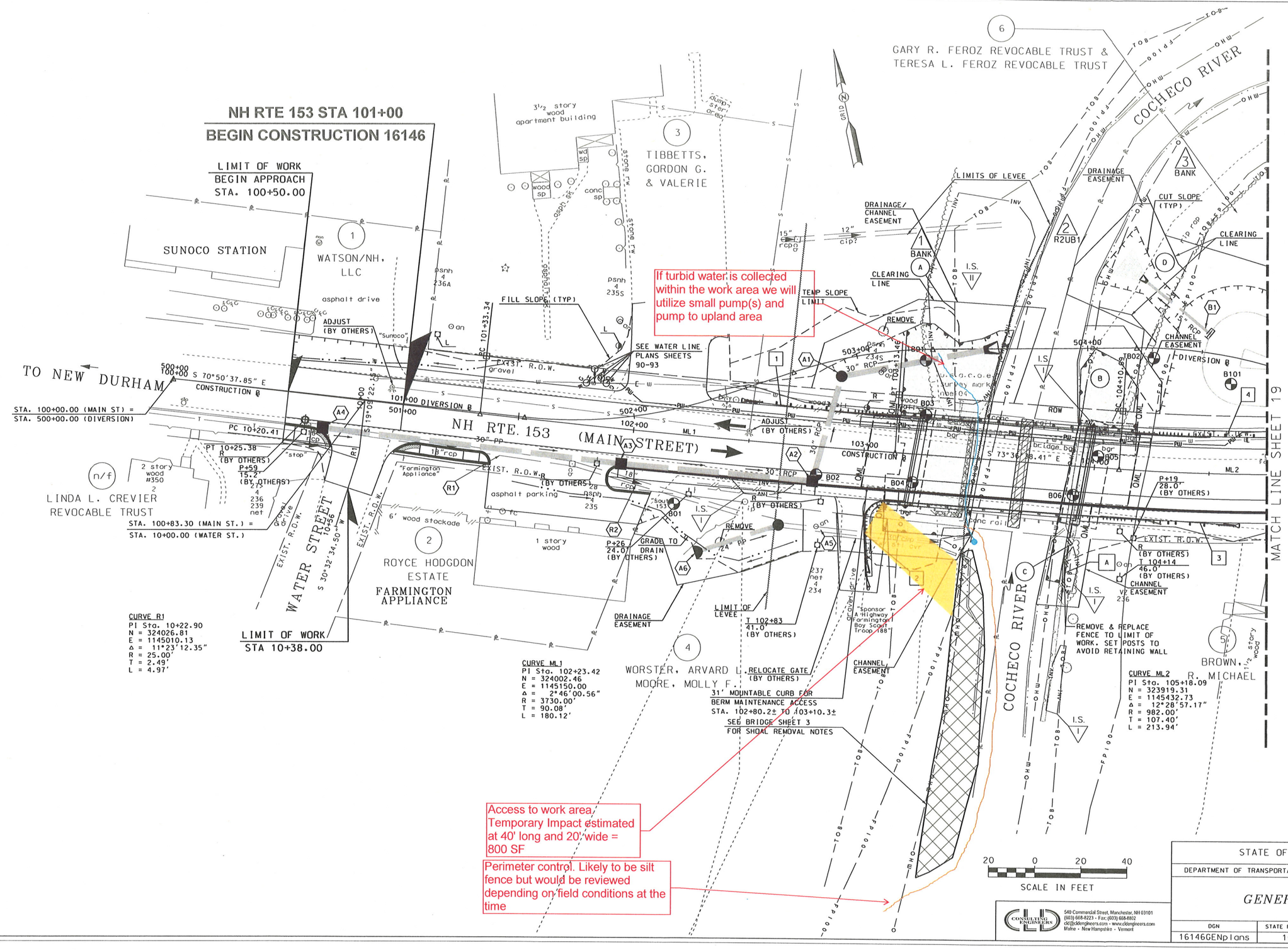


ELEVATION - TYP. PILE DRIVING OPERATIONS

E.D. Swett, Inc.
8 Industrial Park Drive
Concord, NH 03301-8512
Phone (603) 224-7401
Fax (603) 224-5006
e-mail: chris@edswett.com

PROJECT: NH 153 OVER COCHECO RIVER	LOCATION: FARMINGTON, NH	ITEM 501.2 - TEMPORARY BRIDGE INCLUDING APPROACHES	DATE: SEPTEMBER 2016
PROJECT NO.: 16146	BRIDGE NO.: 096/141	CONCEPT PLAN - PLAN, ELEVATION AND SECTIONS	BY: CWR
			SHEET: TEMP 1

Revisions		
Rev #	Date	Description



STATE OF NEW HAMPSHIRE

DEPARTMENT OF TRANSPORTATION • BUREAU OF HIGHWAY DESIGN

GENERAL PLANS

DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
16146GENplans	16146	18	93

CLD CONSULTING ENGINEERS
540 Commercial Street, Manchester, NH 03101
(603) 668-8223 - Fax: (603) 668-8802
cld@cldengineers.com - www.cldengineers.com
Maine - New Hampshire - Vermont

NUMBER	DATE	DESCRIPTION	STATION	STATION

REVISIONS AFTER PROPOSAL

SDR PROCESSED	-	DATE	-
NEW DESIGN	MGS	DATE	6/7/2016
SHEET CHECKED	NCF	DATE	6/7/2016
AS BUILT DETAILS		DATE	