

# STATE OF MAINE DEPARTMENT OF TRANSPORTATION



## CORINTH PENOBSCOT COUNTY ROBYVILLE BRIDGE OVER KENDUSKEAG STREAM COVERED BRIDGE ROAD NHB-1834(300) BRIDGE NO. 1003

### LIST OF DRAWINGS

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General Plan .....	3
Countermeasure Details .....	4
Right of Way Map .....	5

### TRAFFIC DATA

Current (2008) AADT ..... 95

### HYDROLOGIC DATA

Drainage Area .....	105 sq mi
Design Discharge (Q50) .....	4695 cfs
Check Discharge (Q100) .....	5,182 cfs
Headwater Elevation (Q50) .....	141.3 ft
Headwater Elevation (Q100) .....	141.7 ft
Discharge Velocity (Q50) .....	8.8 fps
Discharge Velocity (Q100) .....	9.2 fps

### UTILITIES

Bangor Hydro-Electric Company      Time Warner Cable  
Cornerstone Communications      OTT Communications

### MAINTENANCE OF TRAFFIC

Existing one lane road in the vicinity of the bridge may be closed during periods of work. Road is to be reopened to traffic at the close of each work day.

<b>PROJECT LOCATION:</b>	Robyville Bridge (#1003) over the Kenduskeag Stream on Covered Bridge Road. Located 1.1 Miles West of Route 15. Lat 44°56'36.1", Long. -68°58'6.9"
<b>PROGRAM AREA:</b>	Bridge
<b>OUTLINE OF WORK:</b>	Bridge Scour Countermeasures: Installation of Stone Blanket at Bridge Abutment, on Adjacent Banks and Incidental Work.

WIN 18343.00

18343.00

CORINTH  
ROBYVILLE BRIDGE  
TITLE SHEET

SHEET NUMBER

1

OF 5



SIGNATURE  
1944  
P.E. NUMBER  
4/12/2013  
DATE

PROGRAM	BRIDGE
PROJECT MANAGER	R. Faulkner
DESIGNER	S. Johnson
CONSULTANT	CHA
PROJECT RESIDENT	
CONTRACTOR	
PROJECT COMPLETION DATE	

STATE OF MAINE  
DEPARTMENT OF TRANSPORTATION  
APPROVED  
COMMISSIONER  
DATE  
4/23/13  
CHIEF ENGINEER

Date: 4/30/2013

Username:

Division:

Filename: ... \002\_Estimate.dgn

ESTIMATED QUANTITIES			
ITEM NO.	DESCRIPTION	UNIT	QUANTITY
203.20	COMMON EXCAVATION	CY	20
511.07	COFFERDAM (LEFT ABUTMENT)	LS	1
511.07	COFFERDAM (RIGHT ABUTMENT)	LS	1
610.11	STONE BLANKET	CY	370
620.50	EROSION CONTROL FILTER LAYER	SY	320
629.05	HAND LABOR, STRAIGHT TIME	HR	10
631.121	HVY DUTY ALL PURP EXC (INC OPER)	HR	10
631.172	TRUCK-LARGE (INC OPER)	HR	10
639.19	FIELD OFFICE TYPE B	EA	1
652.312	TYPE III BARRICADE	EA	6
652.33	DRUM	EA	25
652.34	CONE	EA	25
652.35	CONSTRUCTION SIGNS	SF	250
652.361	MAINTENANCE OF TRAFFIC CONTROL DEVICES	LS	1
652.38	FLAGGER	HR	40
656.75	TEMP SOIL EROSION & WATER POLLUTION CONTROL	LS	1
659.10	MOBILIZATION	LS	1

## GENERAL CONSTRUCTION NOTES

1. Covered Bridge Road may be closed to vehicular traffic during the work, if necessary. Subject to coordination with the Resident and the Town.
2. Left and Right designations are based on looking downstream.
3. Payment for equipment, labor, and materials to access the work, as well as re-establish original ground, will be considered incidental to related Contract Bid items.
4. The clearing limits as shown on the plans are approximate. The exact limits will be established in the field by the Resident. Payment for clearing will be considered incidental to Contract Bid items.
5. Contractor shall be aware of overhead utilities parallel to the downstream fascia. Location of any additional utilities is unknown.
6. Plans of the existing structure will be made available to the Contractor for information only existing plans may not be current or "as-built".
7. Contractor shall field verify stream bed elevations along the upstream bridge fascia, downstream bridge fascia and along the centerline of the bridge. Streambed elevations shall be taken every 5 feet along all three lines and provided to the Resident. Resident will determine final streambed elevation(s) based on this information. This work shall not be paid for directly and will be considered incidental to related contract items.
8. Sections shown on the design plans depict "typical" conditions and the intent of the installation may need to be altered to fit actual site conditions as directed by the Resident.
9. Outlines of the countermeasure installation are approximate and represent the minimum dimensions desired. The Resident may direct modifications to fit site conditions.
10. Estimates of quantities are necessarily approximate. Payment will be made on actual quantities installed to the satisfaction of the Resident.
11. Quantities included for pay items measured and paid for by Lump Sum are estimated quantities and are provided by MaineDOT for informational purposes only. Lump Sum pay items will be paid for at the Contract Bid amount, with no addition or reduction in payment to the Contractor if the actual final quantities are different from the MaineDOT provided estimated quantities, except as follows:
  - a. If a Lump Sum pay item is eliminated, the requirements of Standard Specifications Section 109.2, Elimination of Items, will take precedence.
  - b. If other Contract Documents specifically allow a change in payment for a Lump Sum pay item, those requirements will be followed.
  - c. If a design change results in changes to estimate quantities for Lump Sum pay items, price adjustments will be made in accordance with Standard Specifications Section 109.7, Equitable Adjustments to Compensation.
12. The top surface of the countermeasure material shall be as indicated on the plans, above grade at abutment face but matching the surface of the undisturbed stream bottom at the outer edges in the stream.
13. Excavation required for installation of countermeasure, as shown on the plans, shall be considered incidental to related Contract Bid Items. Quantity estimated for Item 203.20 shall be for any additional miscellaneous excavation, as directed by the Resident.
14. Where stone protection exists on the banks, additional stone may be added to augment the protection, as directed by the Resident. The Resident may require removal of existing material judged unacceptable and installation of geotextile and filter material.

STATE OF MAINE DEPARTMENT OF TRANSPORTATION <b>NHB-1834(300)</b> WIN 18343.00 Bridge No. 1003 BRIDGE PLANS		
CORINTH BR 1003 SCOUR COUNTERMEASURE INSTALLATION PLAN <b>ESTIMATED QUANTITIES &amp; GENERAL NOTES</b>		
SHEET NUMBER <div style="font-size: 2em; font-weight: bold; margin: 5px 0;">2</div> OF 5		

PROJ. MANAGER	R. Faulkner	BY	M. Dames	DATE	4/7/2013
DESIGN DETAILED	S. Johnson	CHECKED-REVIEWED	B. Horne	SIGNATURE	
DESIGN DETAILED		DESIGN DETAILED		P.E. NUMBER	
REVISIONS 1		REVISIONS 2		DATE	
REVISIONS 3		REVISIONS 4			
FIELD CHANGES					

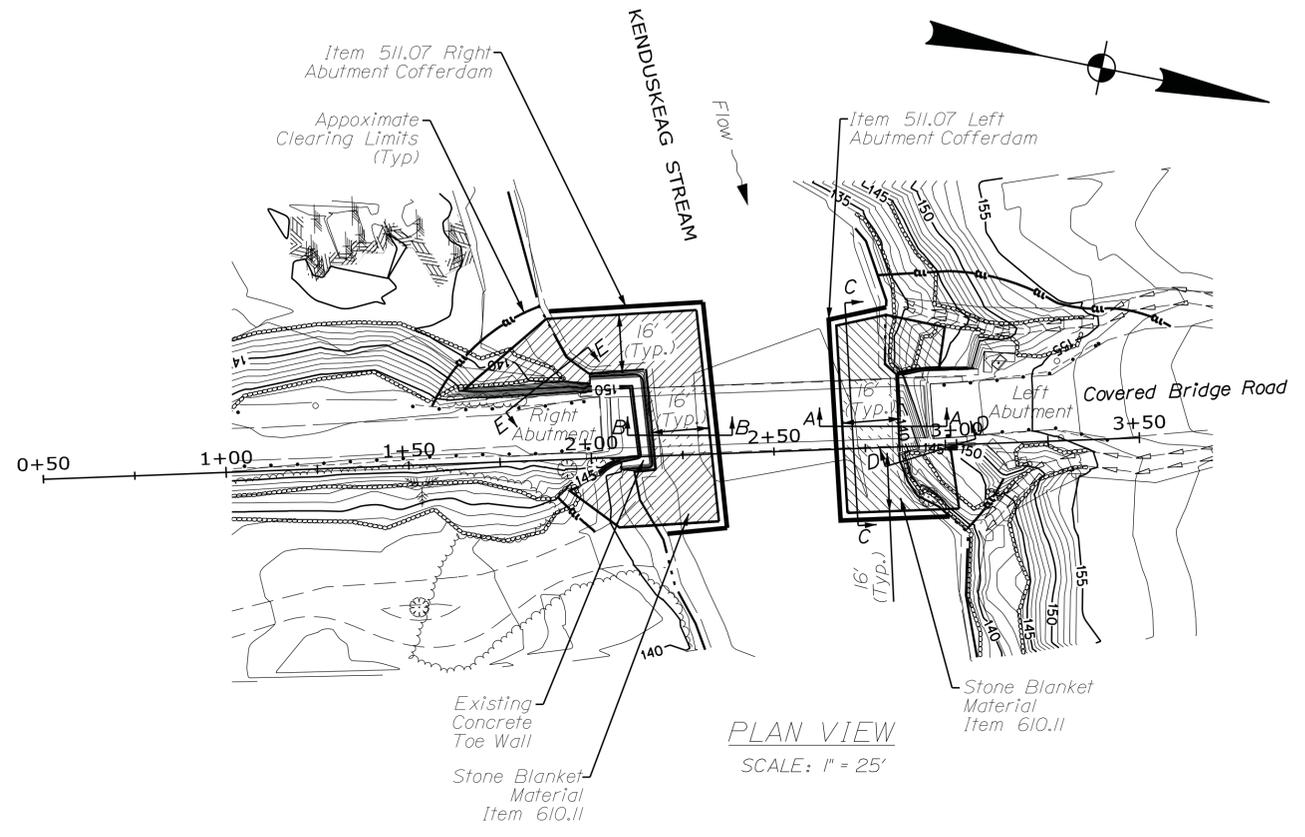
Date: 4/12/2013

Username:

Division:

Filename: ... \003\_Bridge.dgn

Note:  
1. See Countermeasure Detail Sheet For Sections.



**PLAN LEGEND**

 Proposed Stone Blanket\* (Item 610.11)

 Proposed Stone Blanket\* Under Bridge (Item 610.11)

\* Average Stone Blanket Thickness of 3.5ft.



LEFT ABUTMENT



RIGHT ABUTMENT



RIGHT ABUTMENT (DOWN STREAM)

\* Straight Alignment Based Between Stations 2+00 and 2+96.9 Located at Corner of Timber Exterior as Shown in the Above Photo.

STATE OF MAINE		BRIDGE NO. 1003		BRIDGE PLANS	
DEPARTMENT OF TRANSPORTATION		WIN		18343.00	
CORINTH BR 1003		NHB-1834(300)			
SCOUR COUNTERMEASURE		INSTALLATION PLAN		GENERAL PLAN	
SHEET NUMBER		3		OF 5	

PROJ. MANAGER	R. Faulkner	BY	DATE
DESIGN DETAILED	S. Johnson	M. Dames	4/7/2013
CHECKED/REVIEWED	B. Horne	B. Horne	4/7/2013
DESIGN DETAILED			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

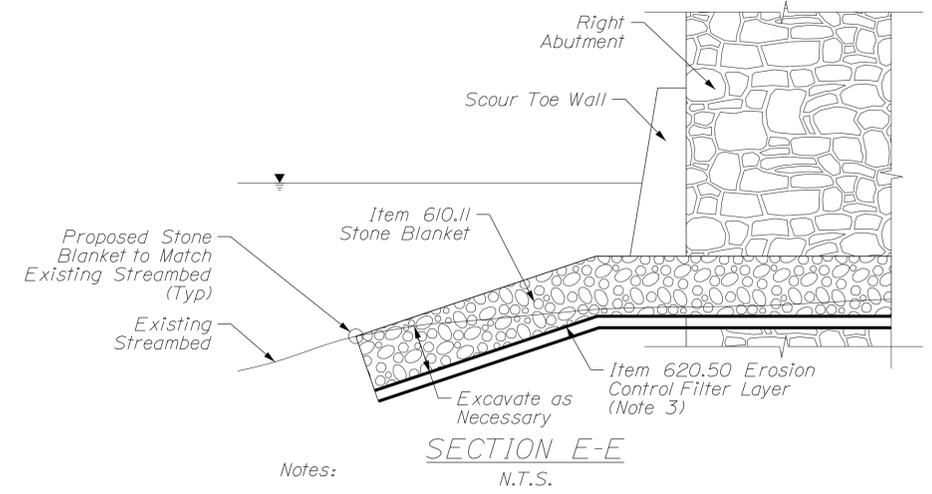
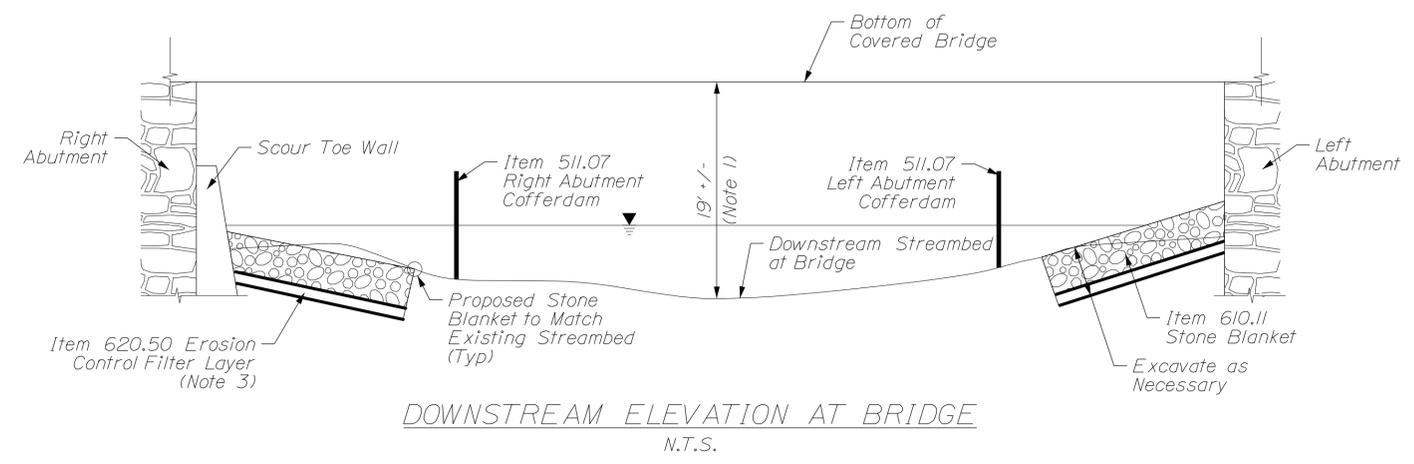
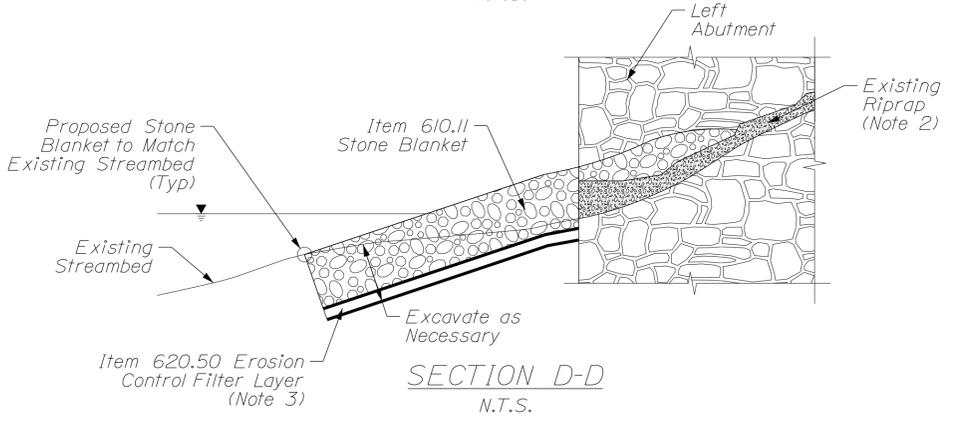
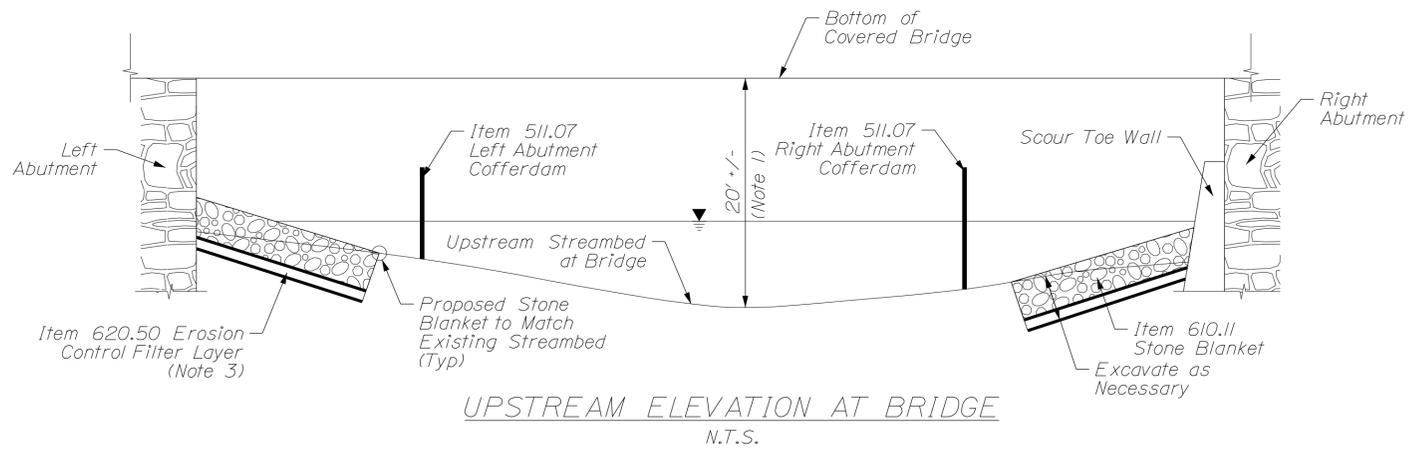
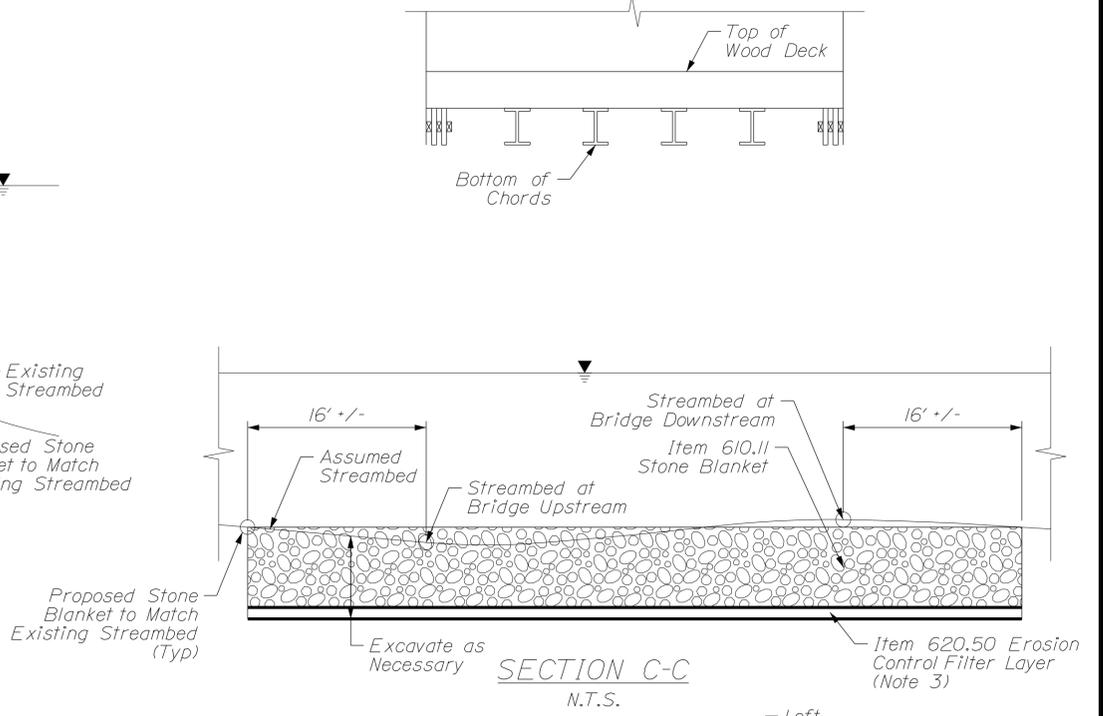
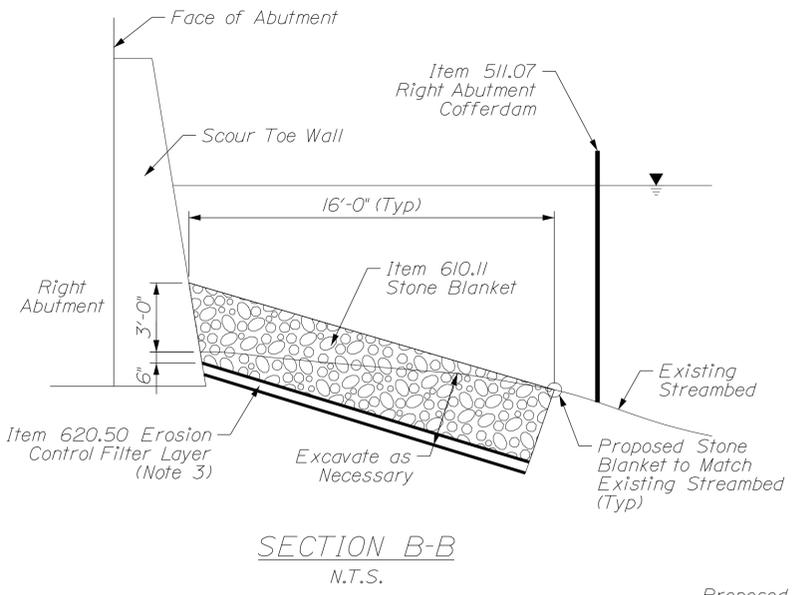
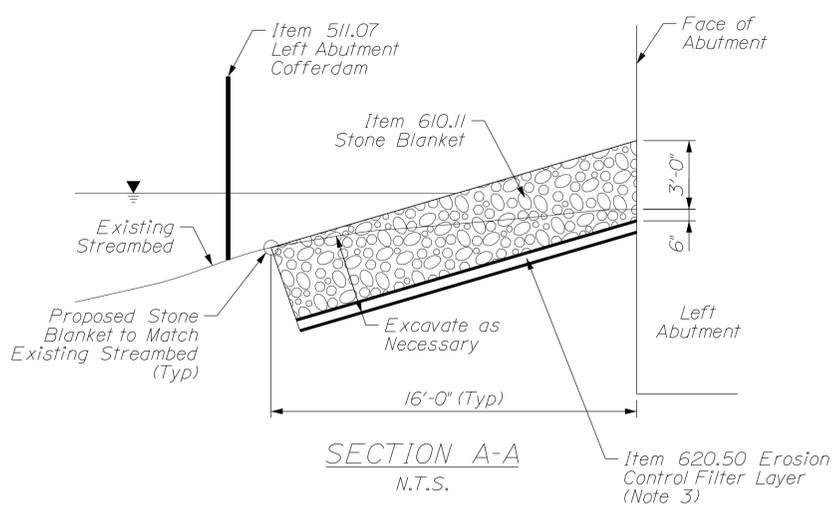
SIGNATURE	P.E. NUMBER	DATE

Date: 4/12/2013

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Division:

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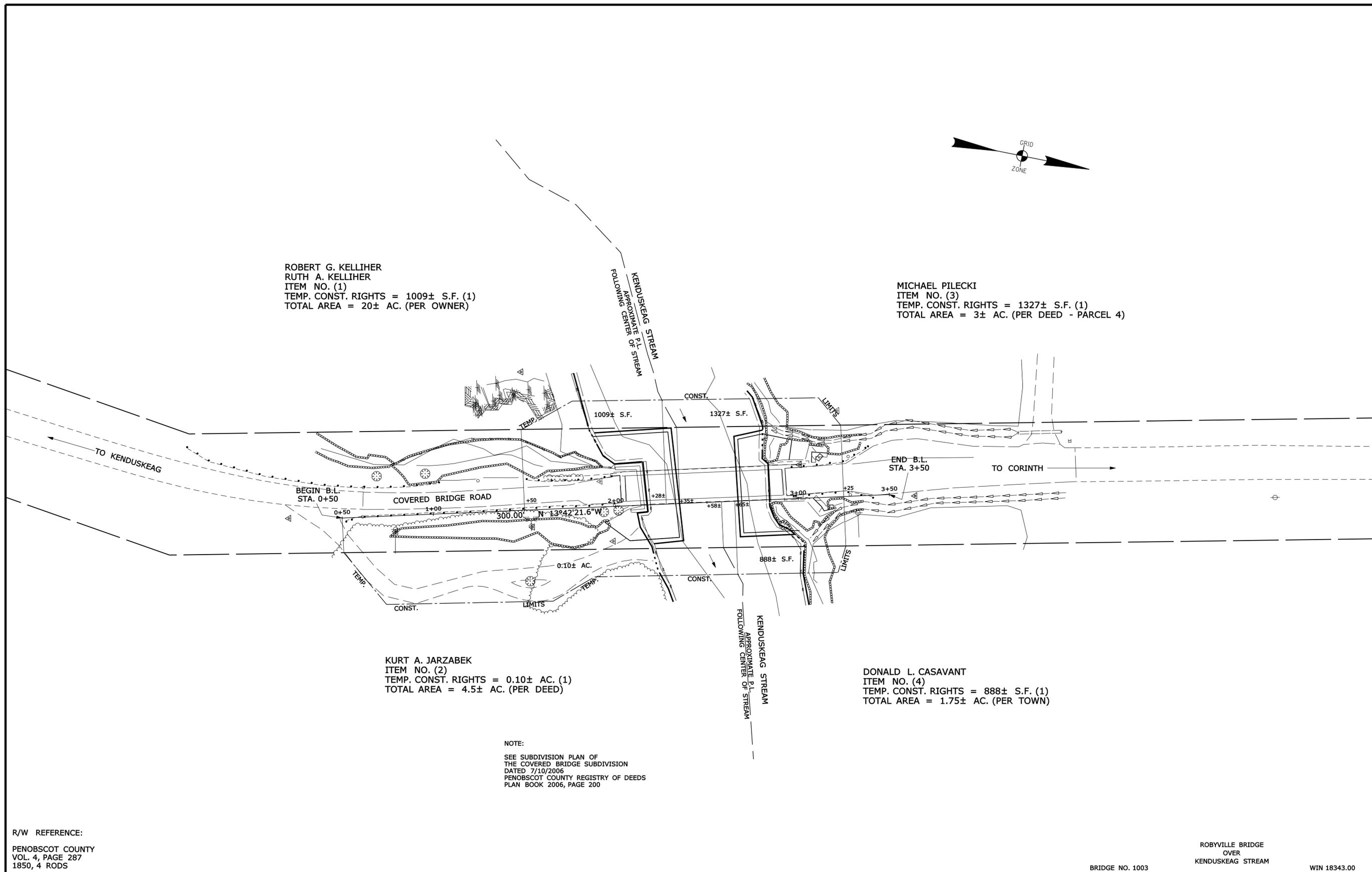


- Notes:
- Distance Shown From Low Chord of Bridge to Stream Bed is Approximated From Field Visit on 7/21/2009.
  - Existing Riprap at the Downstream Left Quadrant Shall Remain and be Augmented by the Proposed Stone Blanket. Existing Sloughing Riprap at the Upstream Left and Right Quadrants Shall be Removed Prior to Proposed Countermeasure Installation and May be Reused at the Direction of the Resident.
  - Protective Aggregate Cushion of Erosion Control Filter Layer Shall be 6" Thick Beneath Stone Blanket.

DESIGN DETAILED	CHECKED/REVIEWED	DATE	SIGNATURE	P.E. NUMBER	DATE
R. Faulkner	M. Dames	4/7/2013			
S. Johnson	B. Horne	4/7/2013			

PROJ. MANAGER	BY	DATE
R. Faulkner	M. Dames	4/7/2013
S. Johnson	B. Horne	4/7/2013

CORINTH BR 1003  
SCOUR COUNTERMEASURE  
INSTALLATION PLAN  
COUNTERMEASURE DETAILS



ROBERT G. KELLIHER  
RUTH A. KELLIHER  
ITEM NO. (1)  
TEMP. CONST. RIGHTS = 1009± S.F. (1)  
TOTAL AREA = 20± AC. (PER OWNER)

MICHAEL PILECKI  
ITEM NO. (3)  
TEMP. CONST. RIGHTS = 1327± S.F. (1)  
TOTAL AREA = 3± AC. (PER DEED - PARCEL 4)

KURT A. JARZABEK  
ITEM NO. (2)  
TEMP. CONST. RIGHTS = 0.10± AC. (1)  
TOTAL AREA = 4.5± AC. (PER DEED)

DONALD L. CASAVANT  
ITEM NO. (4)  
TEMP. CONST. RIGHTS = 888± S.F. (1)  
TOTAL AREA = 1.75± AC. (PER TOWN)

NOTE:  
SEE SUBDIVISION PLAN OF  
THE COVERED BRIDGE SUBDIVISION  
DATED 7/10/2006  
PENOBSCOT COUNTY REGISTRY OF DEEDS  
PLAN BOOK 2006, PAGE 200

R/W REFERENCE:  
PENOBSCOT COUNTY  
VOL. 4, PAGE 287  
1850, 4 RODS

ROBYVILLE BRIDGE  
OVER  
KENDUSKEAG STREAM  
BRIDGE NO. 1003 WIN 18343.00

**SYMBOLS**

• IP or BPP (IRON PIPE or PIN FOUND)	○ WELL (WELL)
○ S.F. (SEPTIC TANK)	— GRADING LIMIT LINE
○ S.F. (SEPTIC TANK)	— CONSTRUCTION LIMIT LINE
△ S.M. (TRANSVERSE POINT)	— PROPERTY LINE PL
— WATER LINE	— LIMITS OF WRAUGHT PORTION (L.O.W.P.)
— GAS LINE	— EXISTING RIGHT OF WAY
— ELECTRIC LINE	— NEW RIGHT OF WAY
— TELEPHONE LINE	— NEW FROM WITHIN EXIST. ROW
— SEWER LINE	— CONTROL OF ACCESS

ITEM	TECH	CHECKED
BASE MAP		
EXIST. R/W	BDM	
PROP. LINES	BDM	
AREAS	BDM	

STATE OF MAINE  
DEPARTMENT OF TRANSPORTATION  
16 STATE HOUSE STATION - AUGUSTA, ME 04333-0016  
CORINTH  
RIGHT OF WAY MAP

NO.	DATE	REVISIONS DESCRIPTION	BY	PLAN FILED IN PLAN BOOK		COUNTY RECORD						
				NO.	GRANTOR	PAGE	INSTRUMENT	DATE	BOOK	PAGE		

DAVID BERNHARDT  
COMMISSIONER  
KENNETH L. SWEENEY  
CHIEF ENGINEER  
DATE

TOWN WAY  
COVERED BRIDGE ROAD  
CORINTH PENOBSCOT COUNTY  
STATE PROJECT NO. 18343.00  
JULY 2012  
SCALE 1" = 25'  
RIGHT-OF-WAY MAP  
SHEET 1 OF 1  
D.O.T. FILE NO. 10-478

SHEET NUMBER  
**5**  
OF 5