

# STATE OF MAINE DEPARTMENT OF TRANSPORTATION



## CAMDEN KNOX COUNTY WOOLIN MILL BRIDGE OVER MEGUNTICOOK RIVER ROUTE 105 (WASHINGTON STREET) BH-1833(400) BRIDGE NO. 5077

### LIST OF DRAWINGS

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### TRAFFIC DATA

Current (2012) ADT ..... 3,200

### HYDROLOGIC DATA\*

Drainage Area .....	32.8 sq mi
Design Discharge (Q50) .....	2,101.2 cfs
Check Discharge (Q100) .....	2,479.1 cfs
Headwater Elevation (Q50) .....	88.3 ft
Headwater Elevation (Q100) .....	88.9 ft
Discharge Velocity (Q50) .....	6.8 fps
Discharge Velocity (Q100) .....	7.8 fps

\* Hydrologic Data Taken From 1998 Bridge Replacement Plans by MaineDot & Converted From Metric to English Units.

### UTILITIES

Central Maine Power Co.	Town of Camden
Fairpoint Communications	Lincolntonville Communications
Time Warner Cable	Maine Water Company

### MAINTENANCE OF TRAFFIC

Contractor Shall Maintain a Minimum of One 11 Foot Lane of Alternating Traffic During Periods of Work. Road is to be Reopened to Traffic at the Close of Each Work Day.

<b>PROJECT LOCATION:</b>	Woolin Mill Bridge (#5077) over the Megunticook River on Route 105 (Washington Street). Located 0.8 Miles Northwest of State Route 1. Lat 44°12'59.2", Long. -69°04'40.8"
<b>PROGRAM AREA:</b>	Bridge
<b>OUTLINE OF WORK:</b>	Bridge Scour Countermeasures: Installation of Countermeasure along Abutment, on Adjacent Banks, and Incidental Work.

STATE OF MAINE  
DEPARTMENT OF TRANSPORTATION

APPROVED: *[Signature]*

COMMISSIONER: *[Signature]*

DATE: 4/18/13

CHIEF ENGINEER: *[Signature]*



SIGNATURE: *[Signature]*

1944

P.E. NUMBER: 4/12/2013

DATE: 4/12/2013

PROGRAM	BRIDGE
PROJECT MANAGER	R. FAULKNER
DESIGNER	S. JOHNSON
CONSULTANT	CHA, INC.
PROJECT RESIDENT	
CONTRACTOR	
PROJECT COMPLETION DATE	

WIN 18334.00

18334.00

CAMDEN  
WOOLIN MILL BRIDGE  
TITLE SHEET

SHEET NUMBER  
**1**  
OF 5

Date: 4/15/2013

Username:

Division:

Filename: \Comden ... \*5077\001\_Title.dgn

ESTIMATED QUANTITIES			
ITEM NO.	DESCRIPTION	UNIT	QUANTITY
203.20	COMMON EXCAVATION	CY	20
511.07	COFFERDAM	LS	1
610.11	STONE BLANKET	CY	230
620.50	EROSION CONTROL FILTER LAYER	SY	240
621.186	MED. DECID. TREES 8'-10' GR.C CONT CLUMP BETULA POPYRIFEA (PAPER BIRCH)	EA	5
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
652.33	DRUM	EA	25
652.34	CONE	EA	25
652.35	CONSTRUCTION SIGNS	SF	100
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. If necessary, temporary one lane closure with flagged alternating one way traffic may be utilized during periods of work. Road is to be reopened to two-way traffic at the close of each work day. 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. There are also two utility pipes exposed in the channel upstream of the bridge. Care shall be taken to ensure pipes are not further disturbed, especially in areas where they are not currently exposed. All work in the immediate vicinity of the pipes will be completed at the direction of the Resident and the Maine Water Company. See Section C-C on Sheet 4. 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. 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.

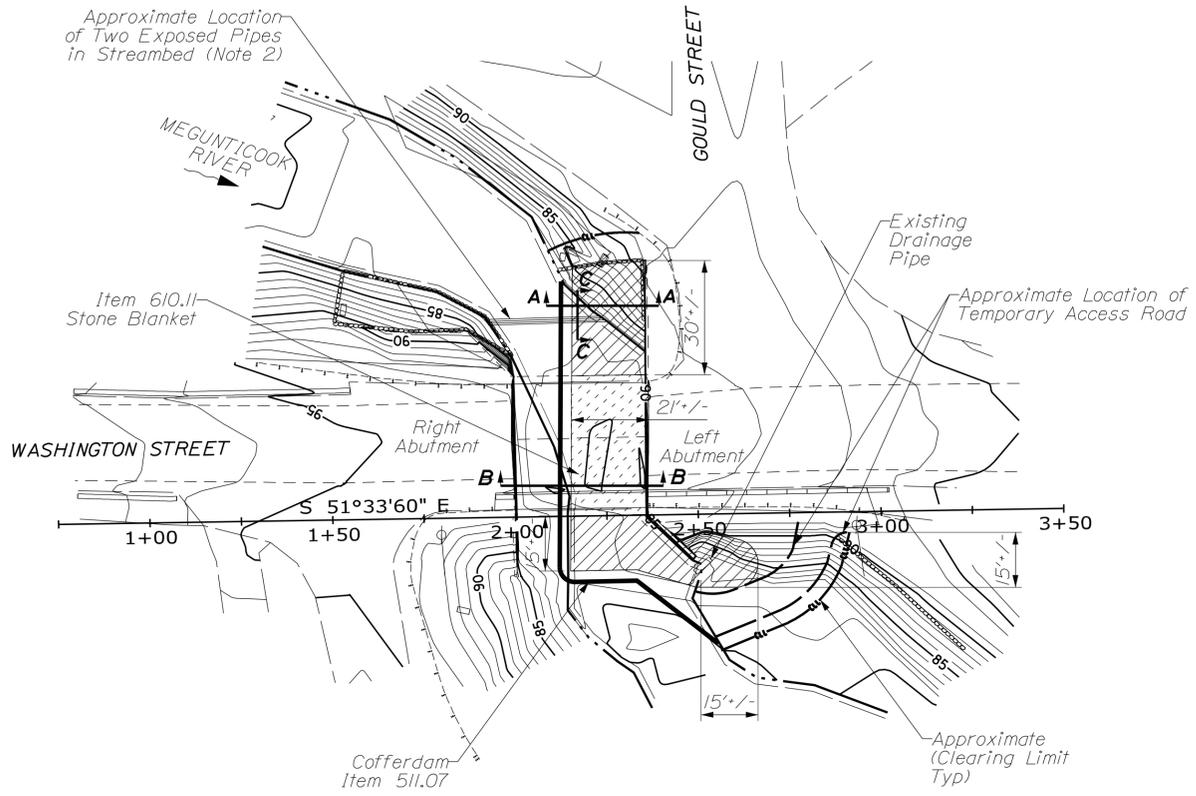
CAMDEN BR 5077 SCOUR COUNTERMEASURE INSTALLATION PLAN <b>ESTIMATED QUANTITIES &amp; GENERAL NOTES</b>	STATE OF MAINE DEPARTMENT OF TRANSPORTATION <b>BH-1833(400)</b> WIN 18334.00 Bridge No. 5077 BRIDGE PLANS	DATE 4/7/2013 4/7/2013 BY M. Dames B. Horne R. Faulkner S. Johnson B. Horne DESIGN-DETAILED CHECKED-REVIEWED DESIGN-DETAILED DESIGN-DETAILED REVISIONS 1 REVISIONS 2 REVISIONS 3 REVISIONS 4 FIELD CHANGES	SIGNATURE P.E. NUMBER DATE
SHEET NUMBER <h1 style="font-size: 2em; margin: 0;">2</h1> OF 5			

Date: 4/12/2013

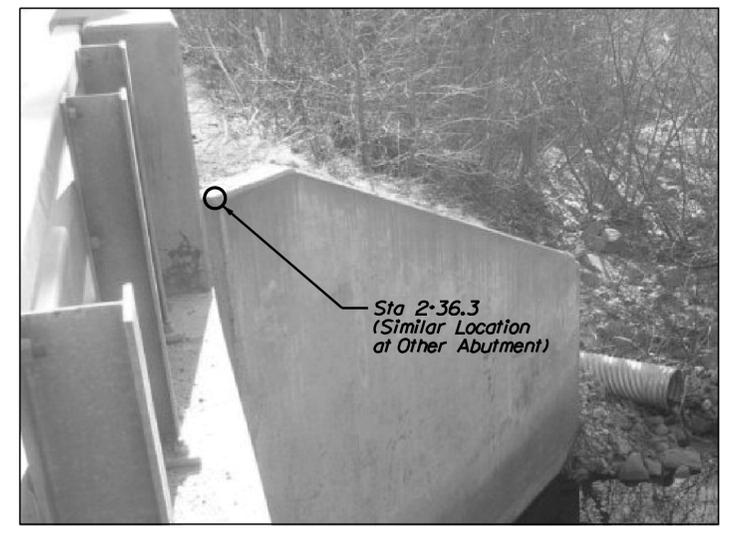
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PLAN VIEW  
Scale: 1" = 25'



LEFT ABUTMENT (DOWNSTREAM)

Note: Straight Alignment Based Between Stations 2+00.0 and 2+36.3.

Notes:

1. See Countermeasure Detail Sheet for Sections.
2. Care Shall be Taken to Ensure Pipes are Not Further Disturbed, Especially in Areas Where They are Not Currently Exposed. All Work in the Immediate Vicinity of the Pipes Will be Completed at the Direction of the Engineer and the Maine Water Company.
3. Location of Item 621.186 Plantings Will be as Directed by MaineDOT Landscape Architect or the Resident.

PLAN LEGEND

- Proposed Stone Blanket Material\* (Item 610.11)
  - Proposed Stone Blanket Material\* Under Bridge (Item 610.11)
- \* Minimum Thickness of 3.5ft in channel.



Upstream Elevation



Downstream Left Wingwall



Upstream Pipe Location

STATE OF MAINE  
DEPARTMENT OF TRANSPORTATION  
BH - 1833(400)  
WIN  
18334.00  
Bridge No. 5077  
BRIDGE PLANS

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

CAMDEN BR 5077  
SCOUR COUNTERMEASURE  
INSTALLATION PLAN  
PLAN

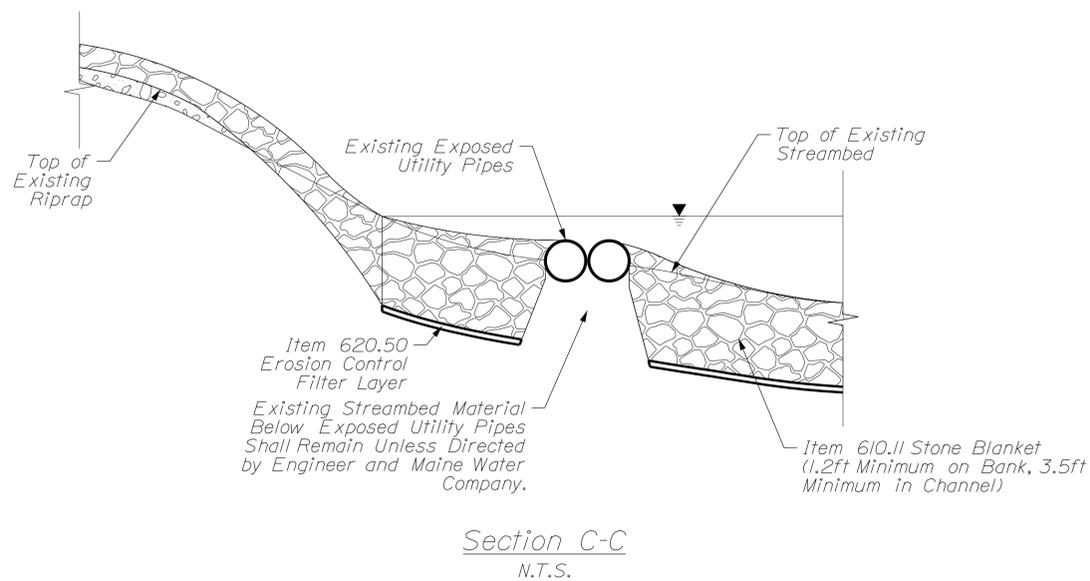
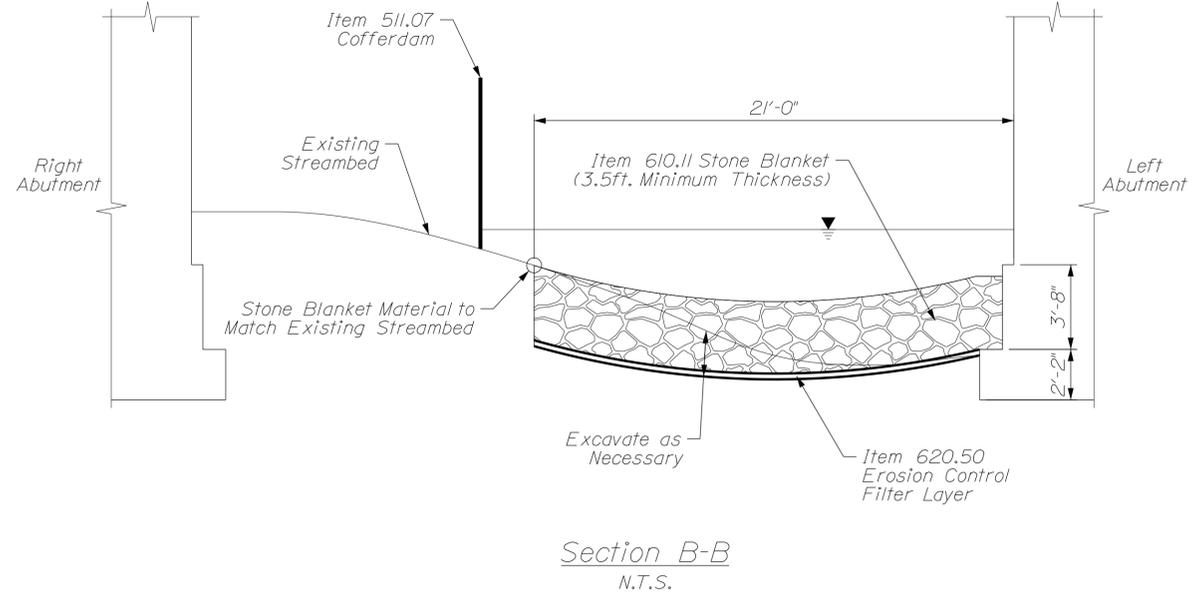
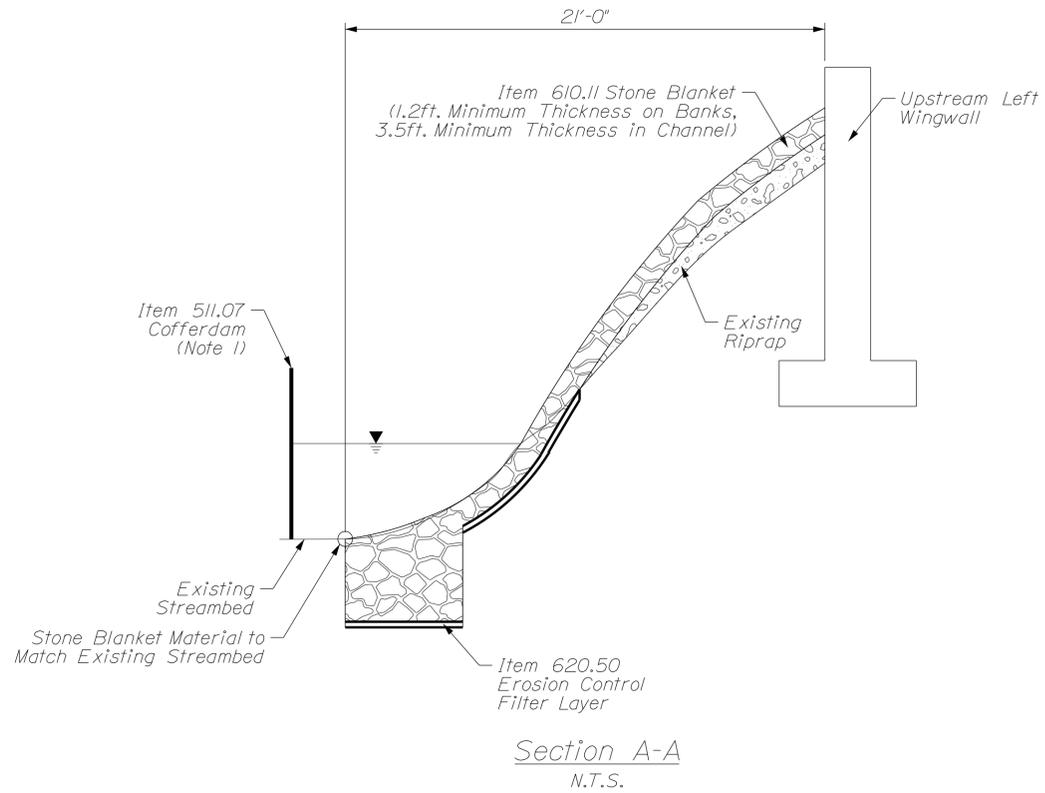
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**3**  
OF 5

Date: 4/12/2013

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Division:

Filename: ... \Camden -- \*5077\004\_Btyp.dgn



Notes:

1. Protective Aggregate Cushion of Erosion Control Filter Layer Shall be 6" Thick Beneath Stone Blanket.
2. Existing Riprap Satisfying Standard Specification Section 703.27 Gradation Requirements May be Used in Stone Blanket as Directed by Resident.

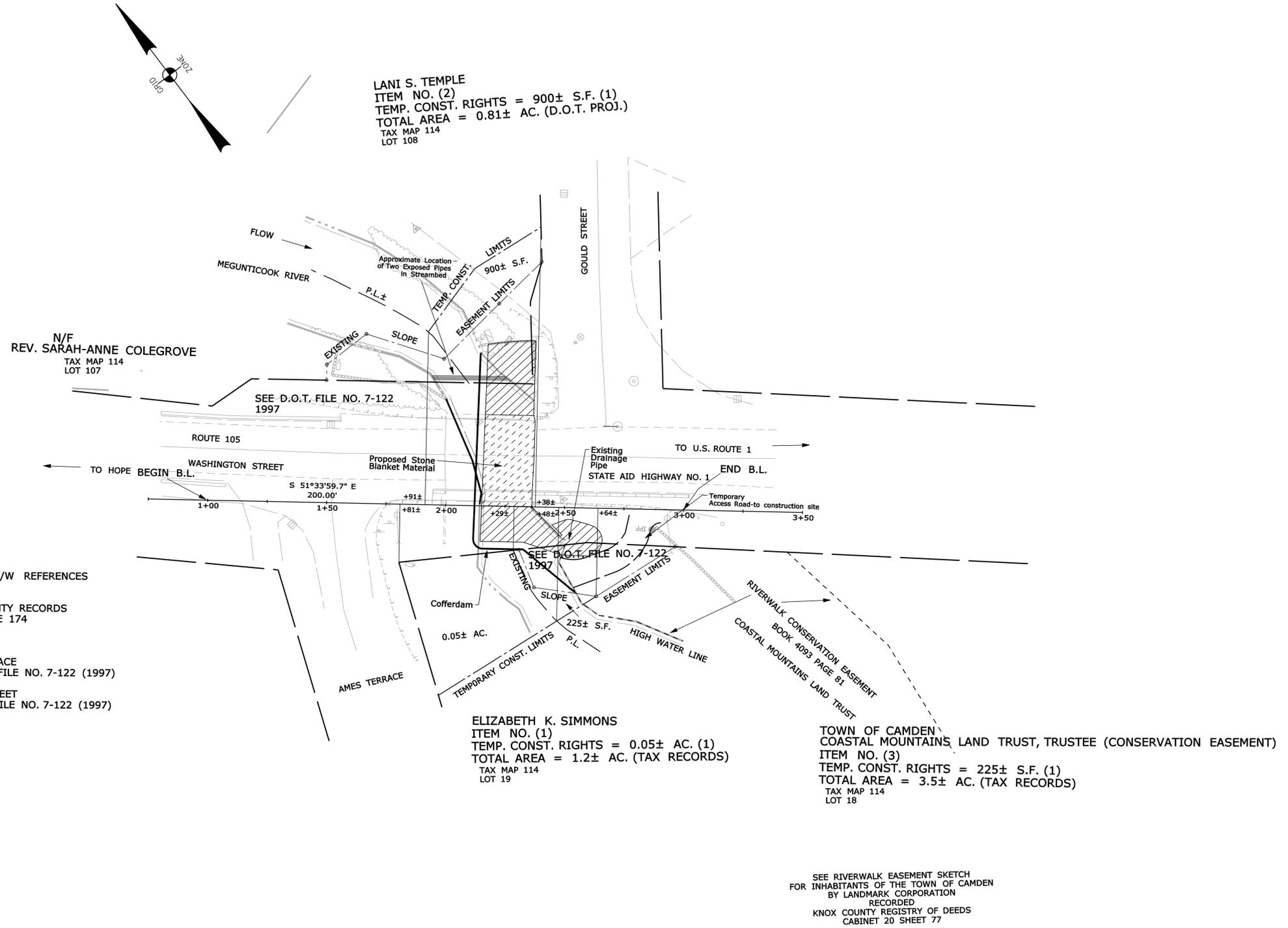
PROJ. MANAGER	R. Faulkner	BY	M. Dames	DATE	4/7/2013
DESIGN DETAILED	S. Johnson	CHECKED/REVIEWED	B. Horne	DATE	4/7/2013
DESIGNS DETAILED		SIGNATURE			
REVISIONS 1		P.E. NUMBER			
REVISIONS 2		DATE			
REVISIONS 3					
REVISIONS 4					
FIELD CHANGES					

CAMDEN BR 5077  
SCOUR COUNTERMEASURE  
INSTALLATION PLAN  
COUNTERMEASURE DETAIL

SHEET NUMBER

4

OF 5



BRIDGE NO. 5077  
 WOOLEN MILL BRIDGE  
 OVER  
 MEGUNTICOOK RIVER  
 WIN 18334.00

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

DAVID BERNHARDT  
 COMMISSIONER  
 KENNETH L. SWEENEY  
 CHIEF ENGINEER

DATE

STATE AID HIGHWAY NO. 1  
 ROUTE 105 - WASHINGTON STREET  
 CAMDEN KNOX COUNTY  
 FEDERAL AID PROJECT NO. BH-1833(400)

JANUARY 2013  
 SCALE 1" = 25'

RIGHT-OF-WAY MAP  
 SHEET 1 OF 1

D.O.T. FILE NO. 7-156

SHEET NUMBER  
**5**  
 OF 5

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

THIS PLAN WAS PREPARED IN CONNECTION WITH THE DEPARTMENT'S ACQUISITION OF REAL PROPERTY FOR TRANSPORTATION PURPOSES. IT CANNOT BE USED TO ESTABLISH LEGAL BOUNDARIES BETWEEN ADJUTING PROPERTY OWNERS.

**SYMBOLS**

- IP or OP (IRON PIPE or PIN FOUND)
- ST (SEPTIC TANK)
- ABM (TRAVERSE POINT)
- W (WATER LINE)
- G (GAS LINE)
- E (ELECTRIC LINE)
- T (TELEPHONE LINE)
- S (SEWER LINE)
- WELL (WELL)
- GRADING LIMIT LINE
- CONSTRUCTION LIMIT LINE
- PROPERTY LINE
- LIMITS OF WRIGHT PORTION (L.O.W.P.)
- EXISTING RIGHT OF WAY
- NEW RIGHT OF WAY
- NEW ROW WITHIN EXIST. ROW
- CONTROL OF ACCESS

ITEM	TECH	CHECKED
BASE MAP		
EXIST. R/W	D.W.B.	
PROP. LINES	D.W.B.	
AREAS	D.W.B.	P.N.S.