

MaineDOT's Standard Operating Procedures

For Identification of Historic Properties

As described in MaineDOT Environmental Office's Standard Operating Procedures for Section 106 of the National Historic Preservation Act process, the following procedure was followed to identify historic properties (36 CFR 800.4):

The Historic Coordinator (HC) will determine the Area of Potential Effect (APE) and then conduct an Above Ground Cultural Resource Survey or assign projects to the consultant(s) and/or the MHPC archaeological staff. The identification and evaluation of historic properties must be performed by professionals who meet the professional standards established by the Secretary of the Interior [§ 800.2(a)(1)]. The Professional Qualification Standards are published in 36 CFR 61. The HC will provide topographic maps with the APE clearly identified and a written project scope of work. The HC will enter dates into ProjEx under Schedule/Approval/Section 106 architectural survey and Section 106 archaeological survey for when the surveys were assigned and completed. The HC will also enter the name of the surveyor in the permit number section. If there is no PIN number, then the information will be filed in the CPD Non- PIN Regional e-file and archives database.

All above ground surveys will be entered into the web-based historic properties database and GIS layer by the Historic Coordinator or the consultant. All surveys and determinations of eligibility and effects will meet the requirements of the MHPC Survey Guidelines.

The following is a breakdown of responsibility for 800.4:

§800.4 (a) (1) - MaineDOT/HC

§800.4 (a) (2) - MaineDOT/HC consultant, MHPC archaeological staff, and Tribes

§800.4 (a) (3) - MaineDOT/HC

§800.4 (a) (4) - MaineDOT/HC and the lead federal agency

§800.4 (b), (c) and (d) - MaineDOT/HC, consultant, MHPC archaeological staff, and Tribes.

The Historic Coordinator, and/or consultant, and/or the MHPC archaeological staff, and/or the THPO (as appropriate) in accordance with 36 CFR § 800.4 (c) and MHPC Survey Guidelines, will evaluate and recommend whether properties within the APE are eligible for and/or listed on the National Register of Historic Places. The HC will make a final determination of eligibility for the SHPO's concurrence.

A. If there are no National Register eligible or listed properties within the APE, a survey report with eligibility recommendations will be supplied to the HC by the architectural consultant, and/or the MHPC archaeological staff, and/or the THPO (see MHPC Survey Guidelines for Architectural Survey Report guidelines). The report will include all properties surveyed and indicate (property by property) why they are not eligible for the National Register. The HC will make a final determination and forward the supporting documentation with a detailed cover memo and finding of **No historic properties affected** to the SHPO/THPO for concurrence. In accordance with § 800.4(d), all participating consulting parties will be notified and the documentation will be made available subject to confidentiality provisions of 800.11(c). Documentation will be in accordance with 36 CFR § 800.4(d) and § 800.11(d). All documentation will be filed in the CPD e-file and dates will be entered into ProjEx under Schedule/Approval/Section 106 SHPO concurrence. If there is no PIN number, then the information will be filed in the CPD Non- PIN Regional e-file and archives database.

i. If the SHPO/THPO does not object within 30 days of receipt of an adequately documented finding, a memo will be forwarded from the SHPO/THPO to the HC stating so. If no response is received after 30 days from the SHPO/THPO, concurrence will be assumed [see §800.4(d)(1)(i)]. This will complete Section 106. All documentation will be filed in the CPD e-file and dates will be entered into ProjEx under Schedule/Approvals/Section 106 SHPO concurrence. If there is no PIN number, then the information will be filed in the CPD Non-PIN Regional e-file and archives database.

ii. If the SHPO/THPO objects to the finding of no historic properties affected, then the HC, the lead federal agency, and/or the SHPO will follow §800.4(d)(1)(ii) by meeting to resolve the disagreement, or the lead federal agency will forward the finding and supporting documentation to the Advisory Council on Historic Preservation (ACHP) and request that the ACHP review the finding pursuant to §800.4(d)(1)(iv)(C).

B. If there are National Register eligible or listed properties identified within the APE, a survey report with eligibility recommendations will be supplied to the HC by the architectural consultant, and/or the MHPC archaeological staff, and/or the THPO (see MHPC Survey Guidelines for Architectural Survey Report guidelines). The report will indicate under which National Park Service National Register Criteria (Criteria A, B, C or D) the property is eligible and which of the seven aspects of integrity (Location, Design, Setting, Materials, Workmanship, Feeling, and/or Association) the property retains to convey its significance. The HC will make a final determination of eligibility for the SHPO's concurrence. For nearly all projects, the determination of National Register boundaries will automatically default to the modern-day parcel boundaries. The need for more refined and individual assessments of boundaries beyond that will be assessed on a case-by-case basis.

i. If the SHPO/THPO objects to the finding of National Register eligibility, then the HC, the lead federal agency, and the SHPO will meet to resolve the disagreement, or the lead federal agency will forward the finding and supporting documentation to the Secretary of

the Interior (specifically the Keeper of the National Register within the U.S. Dept of Interior/National Park Service) pursuant to 36 CFR § 63 requesting a determination of eligibility. The Keeper of the National Register will respond within 45 days with a determination.

STATE OF MAINE
Memorandum

Date: August 2, 2016

To: Kirk F. Mohny, MHPC
From: Megan M. Hopkin, Maine DOT/ENV
Subject: Section 106 request for concurrence
Project: Andover 22619.00
Scope: Bridge replacement

The Maine DOT has reviewed this project pursuant to the Maine Programmatic Agreement (PA) and Section 106 of the National Historic Preservation Act of 1966, as amended.

The project consists of replacement of the Brickett Bridge #3996 in Andover carrying North Main Street over the West Branch of the Ellis River.. The Federal action for this project is Federal funding. The cultural review is scheduled to be completed by September 16, 2016.

In accordance with 36 CFR Part 800.4, the following identification efforts of historic properties were made:

- 800.4(a) (1) - The Area of Potential Effect (APE) includes properties/structures adjacent to the bridge and within the project limits. Properties/structures adjacent to the project limits are considered to be within the APE. The APE is shown as a red polygon on the attached map.
- 800.4(a) (2) – Review of existing information consisted of researching the National Register database. The Maine Historic Preservation Commission Archaeological staff has also reviewed the undertaking.
- 800.4(a) (3) – The town of Andover was contacted via letter and asked to comment on knowledge of, or concerns with, historic properties in the area, and any issues with the undertaking’s effect on historic properties. The town was also requested to provide information regarding local historic societies or groups. The town has not replied to date.
- 800.4(a) (4) – Letters obtaining project location and scope were sent to the 4 federally recognized Tribes in Maine. The Tribes have not replied to date.
- 800.4(c) – The Maine DOT conducted historic architectural surveys within the APE to determine if properties met National Register criteria. One property was determined eligible for the National Register. Maine Historic Preservation Commission Archaeological staff also reviewed this undertaking and recommended ‘no archaeological properties affected’.

In accordance with 36 CFR Part 800.4(d), ***the Maine DOT has determined that no historic or prehistoric archaeological properties or historic architectural properties will be adversely affected by the undertaking.*** Please see attached supporting documentation.

In accordance with the PA and 36 CFR Part 800, please reply with your concurrence or objection to this determination within 30 days.

MaineDOT will be processing 4(f) de minimis documentation with FHWA upon concurrence with this finding.

Please contact me at megan.m.hopkin@maine.gov or at 592-3486 if you have any questions. Thank you.

cc: CPD e-file
enc: Architectural memo
Archaeological memo
Supporting Information for Finding of Effect

Supporting Information for Determination of Eligibility and Finding of Effect

Project: Andover 22619.00

Scope: Bridge Replacement

Finding of Effect: No adverse effect

Detailed Scope

The proposed project is replacement of Brickett Bridge (#3996) in Andover carrying North Main Street over the West Branch Ellis River. The proposed bridge will be built on the same alignment.

The Brickett Bridge is located on North Main Street over the West Branch Ellis River in Andover. The existing bridge is 88' single span bridge built in 1949. After a load rating was performed in 2013, a 120' single span one lane Mabey steel truss structure was placed 6' above the 1949 bridge. The existing bridge ratings resulted in posting loads as low as 13 tons, which rendered the bridge unusable and a candidate for full closure. The one lane Mabey steel truss bridge was placed as a temporary solution to keep the bridge open until the existing bridge is replaced. The existing bridge was an FHWA sufficiency rating of 47.9, and is classified as structurally deficient. The open steel deck grating had allowed water to pour onto the steel girders causing extensive corrosion, and the open bridge joints allowed both water and sand from snow removal operations to fill in and around the bridge seats, causing bearings to jam and corrode.

The proposed bridge is a 124' single span structure on integral abutments with no skew. It consists of four –welded steel plate girders spaced at 7' with overhangs of 2'-2" an 8" composite cast in place concrete deck, ¼" high performance water proofing membrane, and a 3" wearing surface.

Federal Action

Federal funding.

Definition of APE

The study area includes a portion of Brickett Bridge and the surrounding area. The Area of Potential Effects is defined as the area in which the project may cause alterations to the visual setting or characteristics of properties in the vicinity of the project. This definition is illustrated as a red polygon on the topographic map submitted with the survey package.

Historic Properties

(1) Sheep Barn 133 North Andover Road, Stations 2+50-5+50 Left

NR-eligible, Criteria C

The sheep barn located at 133 North Andover Road was constructed c.1860. Due to the fact that sheep barns are uncommon in Maine and that this example appears to retain, at minimum, integrity of design, materials, and workmanship, we conclude that it is eligible for listing in the National Register of Historic Places under Criterion C. MHPC made this determination on February 19, 2016.

Impacts to Properties

(1) Sheep Barn 133 North Andover Road, Stations 2+50-5+50 Left

NR-eligible, Criteria C

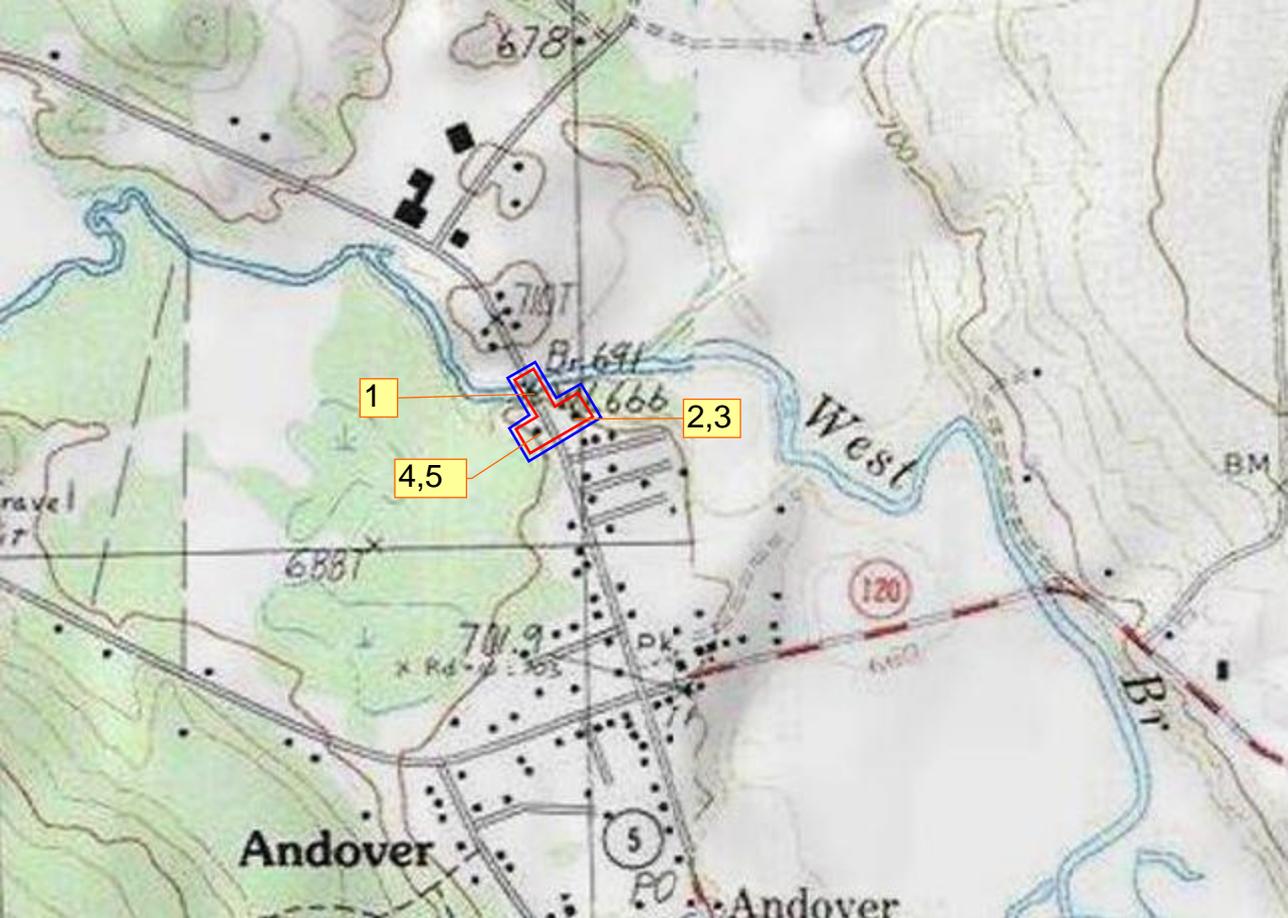
Most of the work will be completed within the existing ROW limits. This work will include a bridge replacement of a two lane bridge with another two lane bridge on the same alignment. Rip-Rap will be added around bridge abutments. Limited approach work will be undertaken. In order to match the proposed grade of the roadway, two areas on the historic property will have temporary construction rights taken for grading the driveway and slope. A slope easement will be taken near the proposed bridge abutment in order to construct and maintain the proposed rip-rap slope. The replacement of the bridge with addition of rip-rap will cause minimal visual effects to the property; therefore, the proposed project will have **no adverse effect** on this property.

Archaeological Resources

No archaeological resources will be affected by this undertaking.

Avoidance, Minimization and Mitigation

Impacts on the historic property have been kept to a minimum. The new bridge will be on the same vertical alignment and approximately 1 foot lower than the existing bridge profile. Materials of the new bridge will be similar to the materials of the current bridge, steel beam on concrete abutments. Rip rap will be introduced around the abutments for scour protection. The rip rap has been kept to a minimal amount.



 APE

 Survey Boundaries

Scale 1" = 600'

Andover 22619.00

STATE OF MAINE DEPARTMENT OF TRANSPORTATION



SPECIFICATIONS

Design: Load and Resistance Factor Design per AASHTO LRFD Bridge Design Specifications, Seventh Edition 2014 with 2016 Interim Revisions.

DESIGN LOADING

Live Load HL - 93 Modified for Strength I

TRAFFIC DATA

Current (2016) AADT 720
 Future (2036) AADT 860
 DHV - % of AADT 12
 Design Hour Volume 103
 Heavy Trucks (% of AADT) 24
 Heavy Trucks (% of DHV) 24
 Directional Distribution (% of DHV) 60
 18 kip Equivalent P 2.0 147
 18 kip Equivalent P 2.5 112
 Design Speed (mph) 30

HYDROLOGIC DATA

Drainage Area 33 sq mi
 Design Discharge (Q50) 3238 cfs
 Check Discharge (Q100) 3610 cfs
 Headwater Elevation (Q1.1) 667.47 ft
 Headwater Elevation (Q25) 670.54 ft
 Headwater Elevation (Q50) 670.98 ft
 Headwater Elevation (Q100) 671.42 ft
 Discharge Velocity (Q1.1) 4.34 fps
 Discharge Velocity (Q50) 7.51 fps
 Discharge Velocity (Q100) 7.74 fps

MATERIALS

Concrete:
 Curbs & Transition Barriers Class "LP"
 All Other Class "A"
 Reinforcing Steel ASTM A 615/A 615M, Grade 60

Structural Steel:
 All Material (except as noted) ASTM A 709, Grade 50W (unpainted)
 High Strength Bolts ASTM A 325, Type 3

BASIC DESIGN STRESSES

Concrete $f'c = 4000$ psi
 Reinforcing Steel $f_y = 60,000$ psi
 Structural Steel:
 ASTM A 709, Grade 50W $F_y = 50,000$ psi
 ASTM A 709, Grade 36 $F_y = 36,000$ psi
 ASTM A 325 $F_u = 120,000$ psi

LIST OF DRAWINGS

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Preliminary Profile	3
Preliminary Sections	4

ANDOVER OXFORD COUNTY BRICKETT BRIDGE OVER W. BR. ELLIS RIVER NORTH MAIN STREET FEDERAL PROJECT NO. STP-2261(900) PROJECT LENGTH 0.104 mi. BRIDGE NO. 3996

UTILITIES

Central Maine Power
 Oxford West Telephone
 Time Warner Cable
 Andover Water District

MAINTENANCE OF TRAFFIC

Maintain two-way traffic on a local detour. Close bridge to traffic during construction.

<u>PROJECT LOCATION</u>	No. Main Street in Andover, approx. 0.35 miles northerly of Upton Rd. intersection Lat./Long. 44°38'23.13" N 70°45'12.16" W
<u>PROGRAM AREA</u>	Bridge Construction
<u>OUTLINE OF WORK</u>	Bridge replacement with 535' of approach work.

Date:4/19/2016

Username: brian.j.nichols

Division: BRIDGE

Filename: \\00\BRIDGE\MSTA\001_Title.dgn

WIN 22619.00

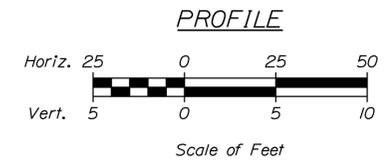
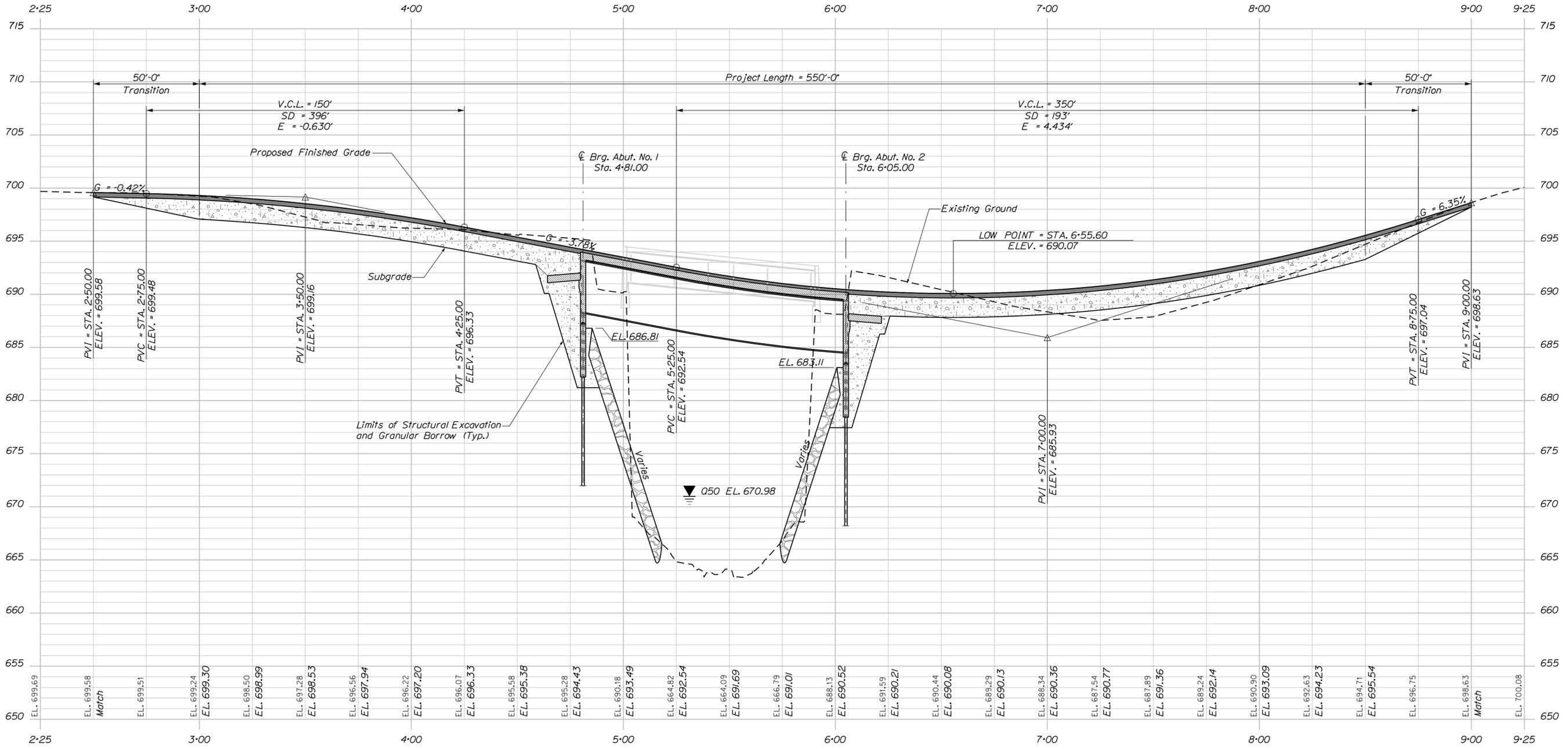
STP-2261(900)

STATE OF MAINE	DEPARTMENT OF TRANSPORTATION	APPROVED	DATE
		COMMISSIONER:	CHIEF ENGINEER:

PROGRAM	PROJECT MANAGER	DESIGNER	CONSULTANT	PROJECT RESIDENT	CONTRACTOR	PROJECT COMPLETION DATE
BRIDGE	JOEL KITTEDGE	ROGER NAOUS				
SIGNATURE	P.E. NUMBER	DATE				

ANDOVER
BRICKETT BRIDGE
TITLE SHEET

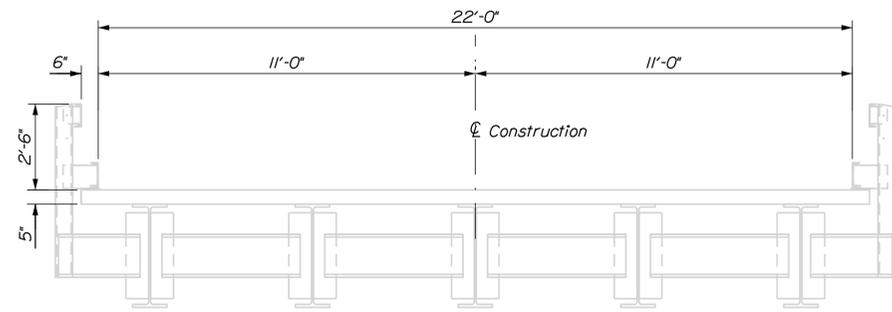
SHEET NUMBER
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OF 4



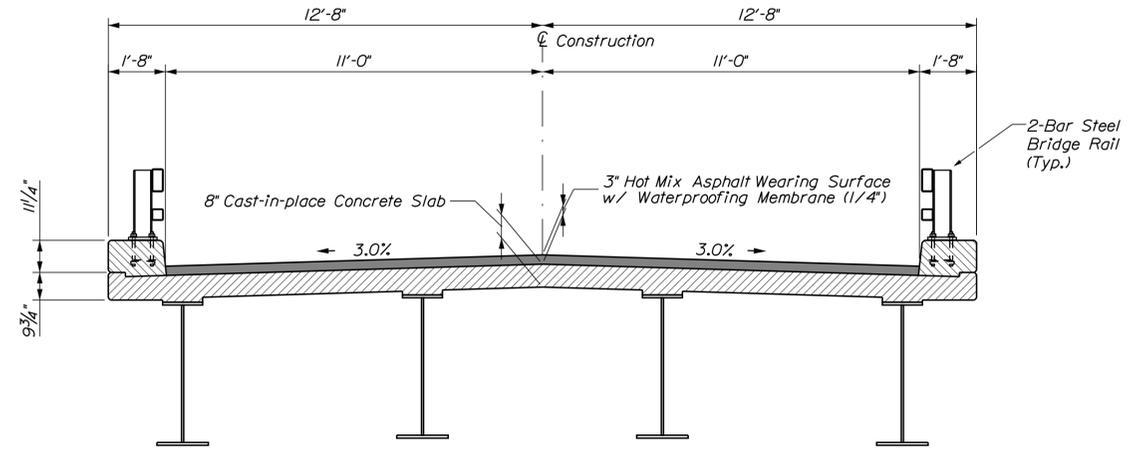
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BRICKETT BRIDGE W. BR. ELLIS RIVER OXFORD COUNTY ANDOVER		PRELIMINARY PROFILE	
SHEET NUMBER		BRIDGE NO. 3996	
3		WIN 22619.00	
OF 4		BRIDGE PLANS	

PROJ. MANAGER	JCK	BY	DATE
DESIGN-DETAILED	R. NAUJIS	B.N	
CHECKED-REVIEWED	N. SHERWOOD	T. WHITE	JAN 2016
DESIGNS-DETAILED			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

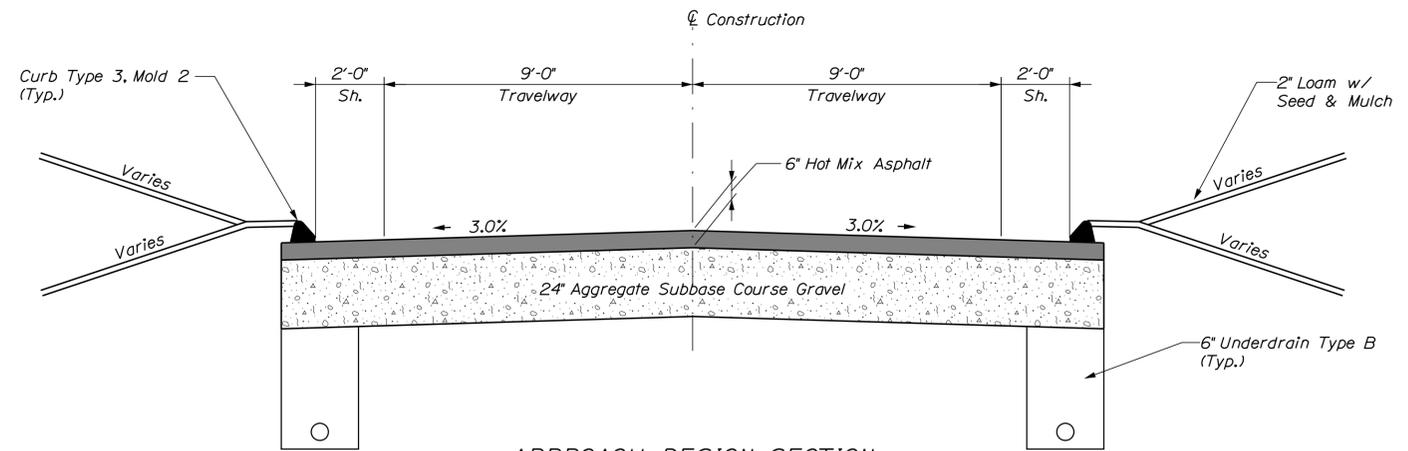
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DATE	DATE



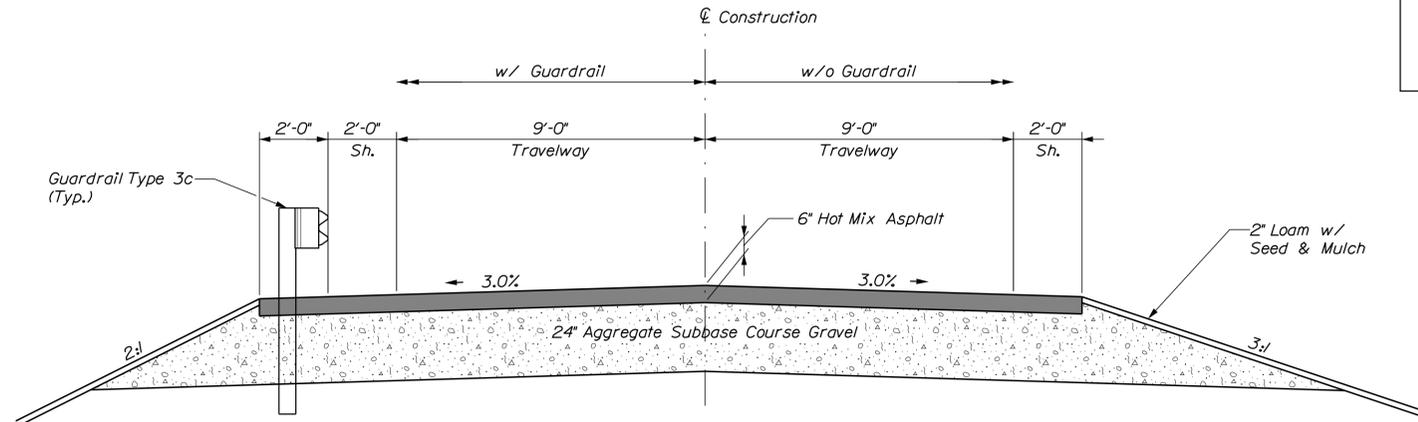
EXISTING SUPERSTRUCTURE SECTION



SUPERSTRUCTURE SECTION



APPROACH DESIGN SECTION
~Curbed Areas~



APPROACH DESIGN SECTION
~Non-Curbed Areas~

DESIGNED	BY	DATE
CHECKED	BY	DATE
DESIGNED	BY	DATE
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

PROJ. MANAGER	JCK	DATE
CHECKED	BY	DATE
DESIGNED	BY	DATE
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

BRICKETT BRIDGE
W. BR. ELLIS RIVER
OXFORD COUNTY
ANDOVER
PRELIMINARY SECTIONS

SHEET NUMBER

4

OF 4