

EXISTING BRIDGE SECTION

INDEX OF SHEETS

Description	Sheet No.
General Plan	1
Stage Construction	2
Plan & Profile	3
Maintenance of Traffic	4 thru 6

SPECIFICATIONS

DESIGN: AASHTO Standard Specifications for Highway Bridges 1977, and Interim Specifications 1978, 1979, 1980, and 1981, & 1982.

CONTRACT: State of Maine, Department of Transportation, Standard Specifications, Highways and Bridges, Revision of June 1981.

MATERIALS

Concrete: ----- Class AA (modified)

Reinforcing Steel: ----- ASTM A615 Grade 60

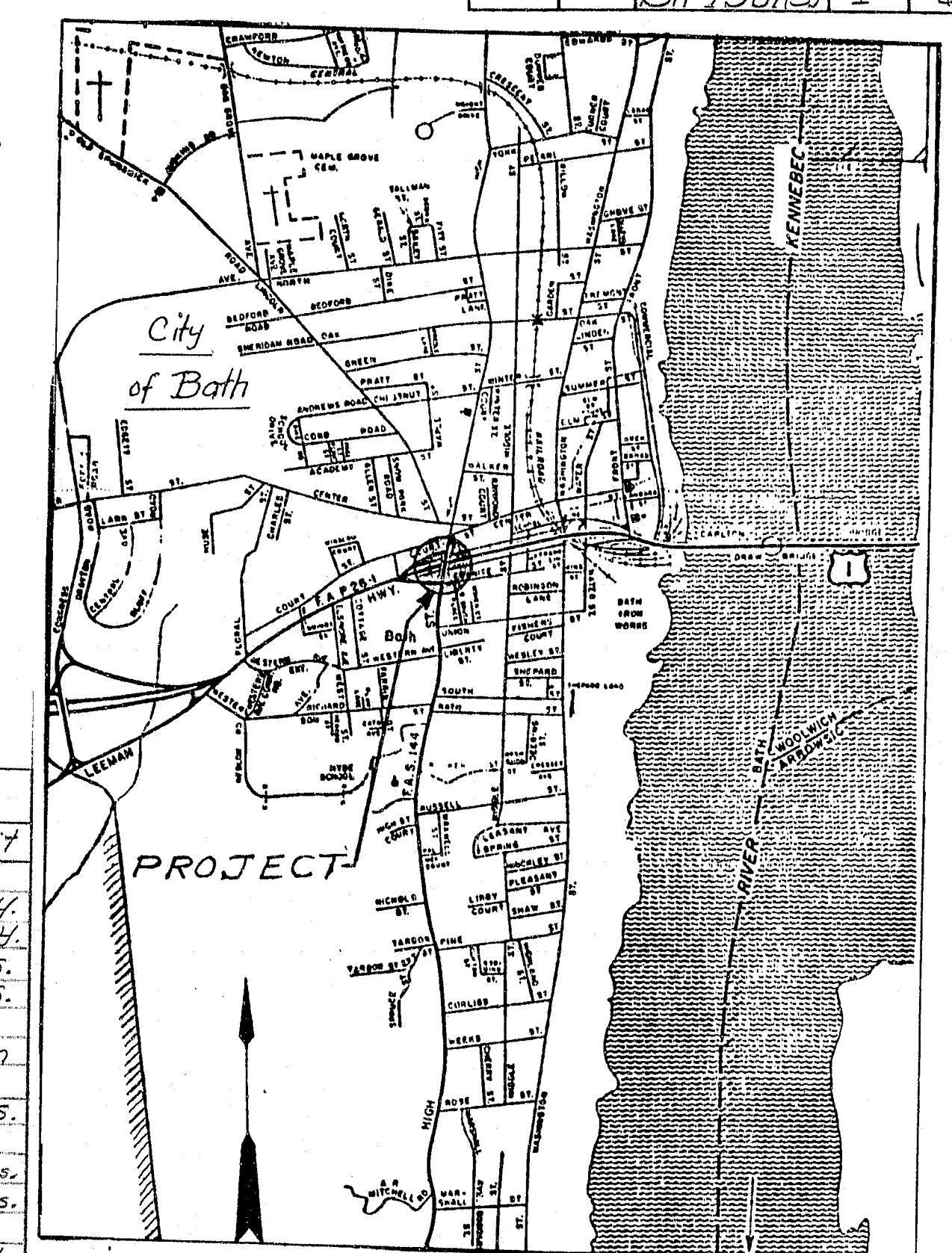
BASIC ALLOWABLE STRESSES

Concrete: ----- $f'_c = 1200$ psi. $n = 9$

Reinforcing Steel: ----- $f_s = 24000$ psi.

ESTIMATED QUANTITIES

Item No.	Description	Quantity	Unit
202.124	Removal of Exst. Str. Concrete Slab - To Reinforcing Steel	71	S.Y.
202.125	Removal of Exst. Str. Concrete Slab - To below Reinforcing Steel	138	S.Y.
202.127	Removal of Exst. Bituminous Pavement	1	L.S.
202.128	Removal of Exst. Concrete - Curb and Sidewalks	1	L.S.
403.10	Hot Bituminous Pavement, Grading D	3	Ton
502.29	Structural Concrete Wearing Surface on Bridges	1	L.S.
503.12	Reinforcing Steel Fabricated & Delivered	250	Lbs.
503.13	Reinforcing Steel Placing	250	Lbs.
515.20	Protective Coating for Concrete Surfaces	471	S.Y.
609.13	Vertical Bridge Curb Type L	122	L.F.
622.63	4 inch Solid Yellow Pavement Marking Line	400	L.F.
627.65	White or Yellow Pavement and Curb Marking	60	S.F.
627.67	Removing Pavement Markings	60	S.F.
629.07	Hand Labor, Straight Time	10	M.H.
631.10	Air Compressor (including operator)	10	Hr.
631.11	Air Tool (including operator)	10	Hr.
631.171	Truck - small (including operator)	10	Hr.
631.22	Front End Loader (including operator)	10	Hr.
633.20	Field Office Type C	1	Each
643.72	Temporary Traffic Signal	1	L.S.
652.31	Type I Barricades	12	Each
652.33	Drums	5	Each
652.34	Cones	5	Each
652.35	Construction Signs	400	S.F.
652.36	Maintenance of Traffic Control Devices	70	C.D.
652.38	Flagger	50	M.H.
653.10	Mobilization	1	L.S.



Scale of Miles
LOCATION MAP

NOTE
All work contemplated under this contract to be governed by and in conformity with the STANDARD SPECIFICATIONS (Revision of June 1981) and supplements thereto, except as modified on the plans and in the special provisions.
Plans of the existing bridge are available for the Contractor's reference at the Bridge Design Office in Augusta. The plans are reproductions of original drawings as prepared for the construction of the bridge and it is very unlikely that the plans will show any construction field changes or any alterations which may have been made to the bridge during its life span.

TRAFFIC DATA

AADT 1982	6635
AADT 2002	7935
DHV	952
T %	4
D %	12
V	25
13 Kips P2.5	63

PROJECT DESIGN ENGINEER	DATE
BY DEW	
DESIGN DETAIL	
REVISIONS	
FIELD CHANGES	

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

APPROVED: *Richard Coleman* 5/83
COMMISSIONER DATE
CHIEF ENGINEER DATE

AS BUILT Paul P. Adkins

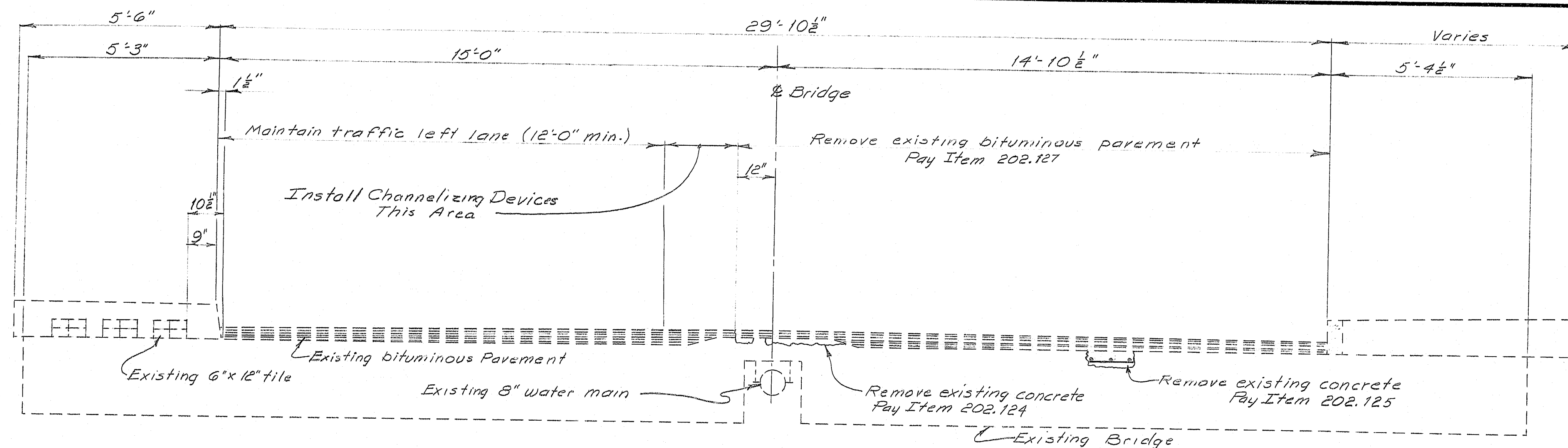
UNITED STATES
DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
REGION 1

APPROVED: **107-498**
DIVISION ADMINISTRATOR DATE

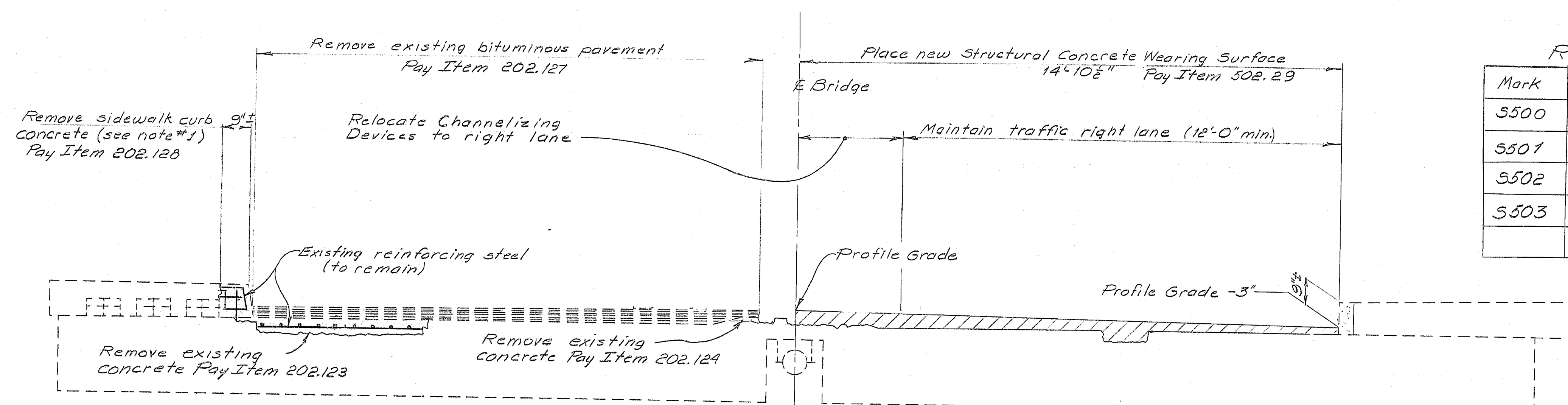
Bridge No. 3837

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION **62**

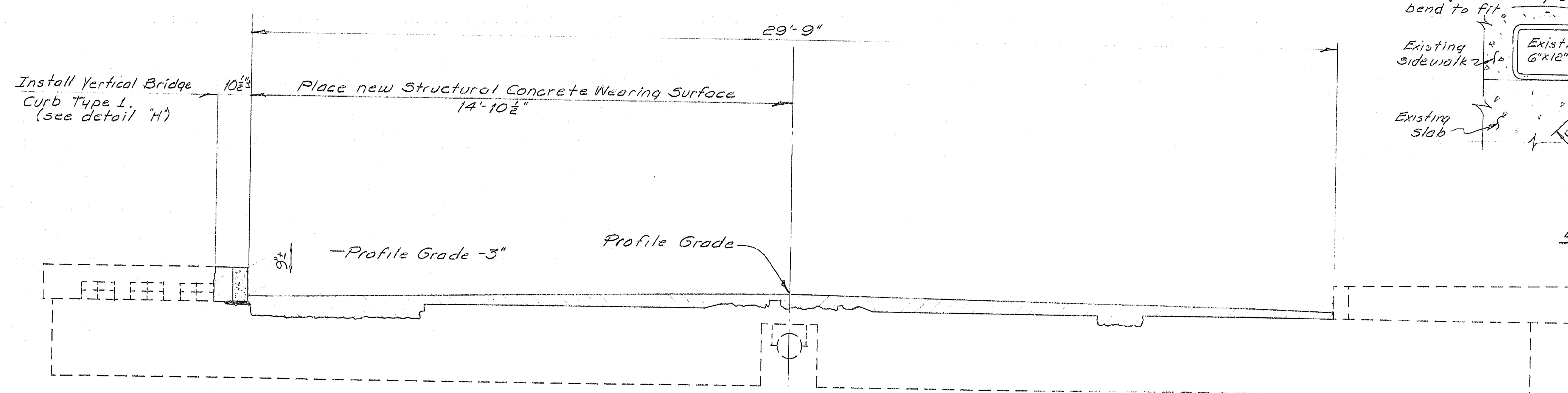
HIGH STREET BRIDGE
OVER
U. S. ROUTE 1
in the city of
BATH
SAGadahoc COUNTY
General Plan



STAGE 1

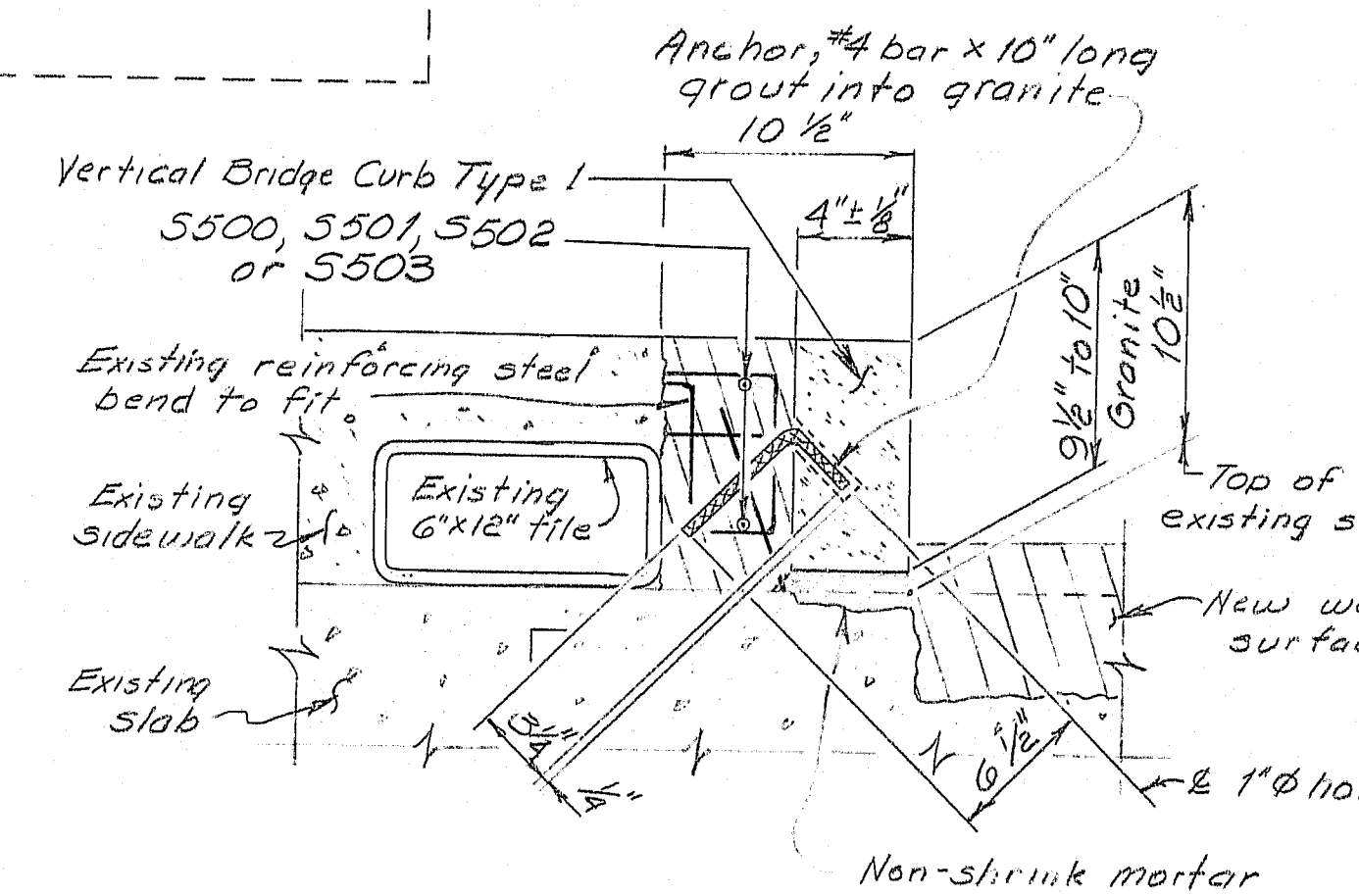


STAGE 2



STAGE 3

Reinforcing Steel			
Mark	No.	Length	Location
S500	2	17'-0"	Sidewalk
S501	4	19'-8"	"
S502	4	19'-11"	"
S503	2	23'-7"	"



DETAIL "H"

SEQUENCE OF CONSTRUCTION

- Stage 1:
- 1A ~ Install Traffic Controls and maintain Traffic in 12'-0" lane on left side of bridge.
 - 1B ~ Remove existing bituminous pavement and deteriorated slab concrete on right side of bridge.
- Stage 2:
- 2A ~ Install new Structural Concrete Wearing Surface on right side of bridge.
 - 2B ~ Relocate Traffic Controls and maintain Traffic in 12'-0" lane on right side of bridge.
 - 2C ~ Remove existing bituminous pavement, deteriorated slab concrete and sidewalk curb concrete on left side of bridge.
- Stage 3:
- 3A ~ Install Vertical Bridge Curb Type I in sidewalk on left side of bridge.
 - 3B ~ Install new Structural Concrete Wearing Surface on left side of bridge.
 - 3C ~ Complete all incidentals, remove Traffic Controls and open bridge to Traffic.

CONSTRUCTION NOTES

- 1 ~ Sawcut 1/2" into top of existing sidewalk curb concrete at 9" from top face of curb for full length of bridge. Remove sidewalk curb concrete as shown. Care shall be taken not to damage the 6"x12" tile and the transverse and slab dowel reinforcing.
- 2 ~ Sand blast existing slab prior to placement of new wearing surface where existing concrete is not removed. Payment to be incidental to Item 502.29 Structural Concrete Wearing Surface on Bridges.
- 3 ~ See Special Provision 202, Removing Structures and Obstructions for further details on removing and replacing the existing bituminous pavement and deteriorated concrete.
- 4 ~ If the 6"x12" tiles in the left sidewalk are broken, the contractor shall, at his option, either fill the void with concrete or form out the void. The additional concrete or forming shall be at the Contractors expense.
- 5 ~ Protective Coating for Concrete Surfaces shall be applied to the new structural concrete wearing surface and left sidewalk.
- 6 ~ All Joints between existing & proposed Hot Bituminous Pavement shall be butted unless otherwise directed by the Engineer. Payment will be incidental to Hot Bituminous Pavement Item.
- 7 ~ The replacement of removed concrete in the slab and sidewalk curb with class AA (modified) concrete.
- 8 ~ The replacement of the removed concrete in the sidewalk curb will not be paid for directly but shall be considered incidental to Item 202.126.

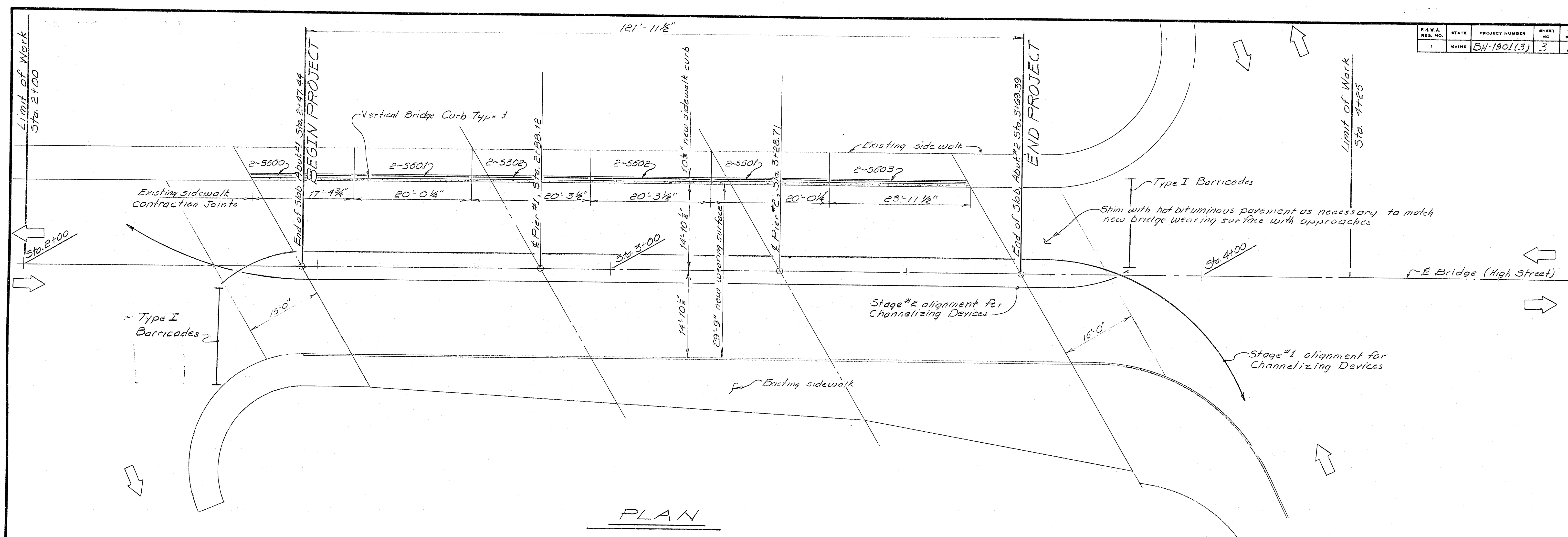
PROJECT DESIGN ENGINEER	DATE
BY LAWLAW	10-82
DESIGN-DETAILED	
CHECKED	
REVISIONS	
FIELD CHANGES	

BRUNING 44-132 6710

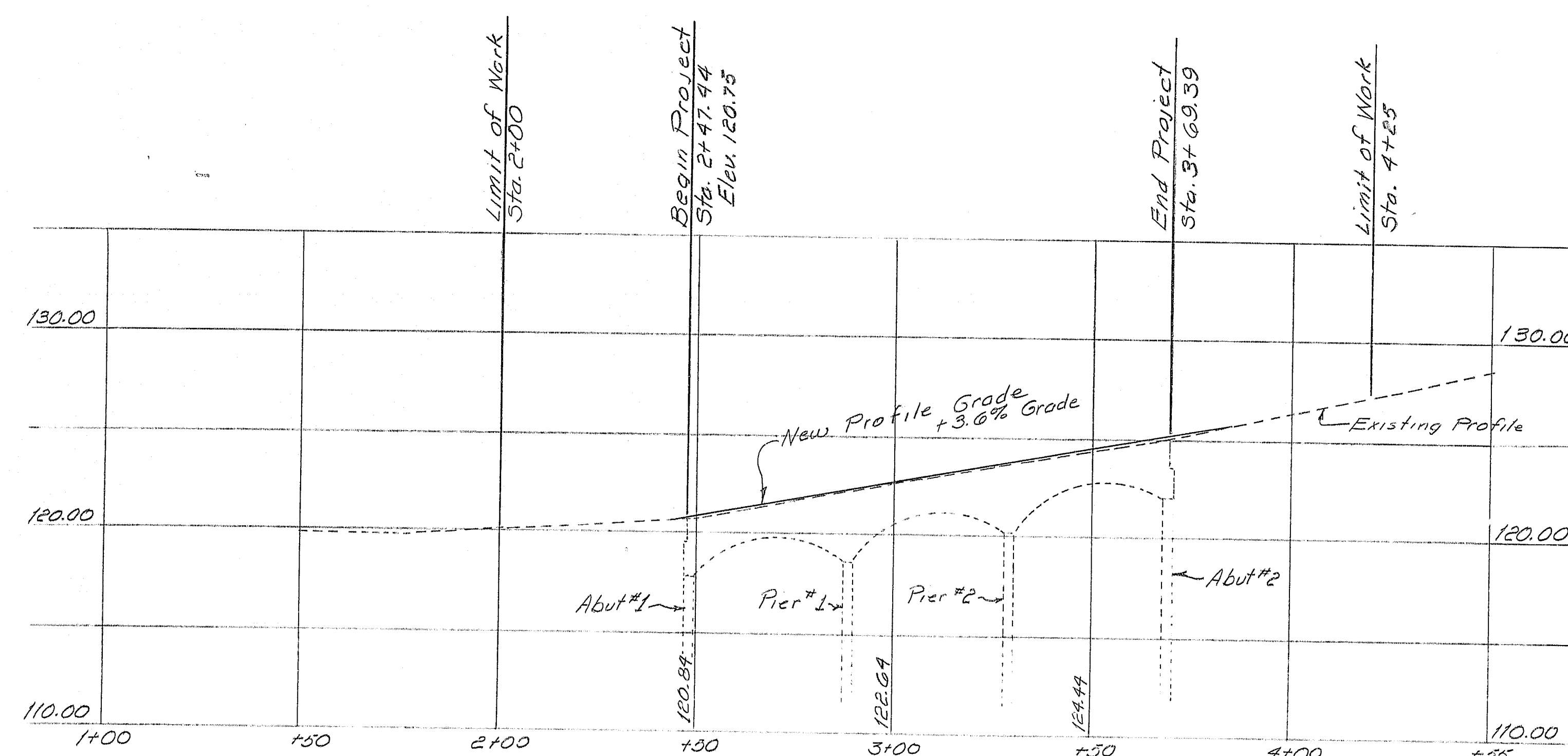
107-499

STATE OF MAINE		63
DEPARTMENT OF TRANSPORTATION		
HIGH STREET BRIDGE		
OVER		
U. S. ROUTE 1		
in the city of		
BATH		
SAGadahoc COUNTY		
Stage Construction		
SHEET OF	AUGUSTA, MAINE	May 1983

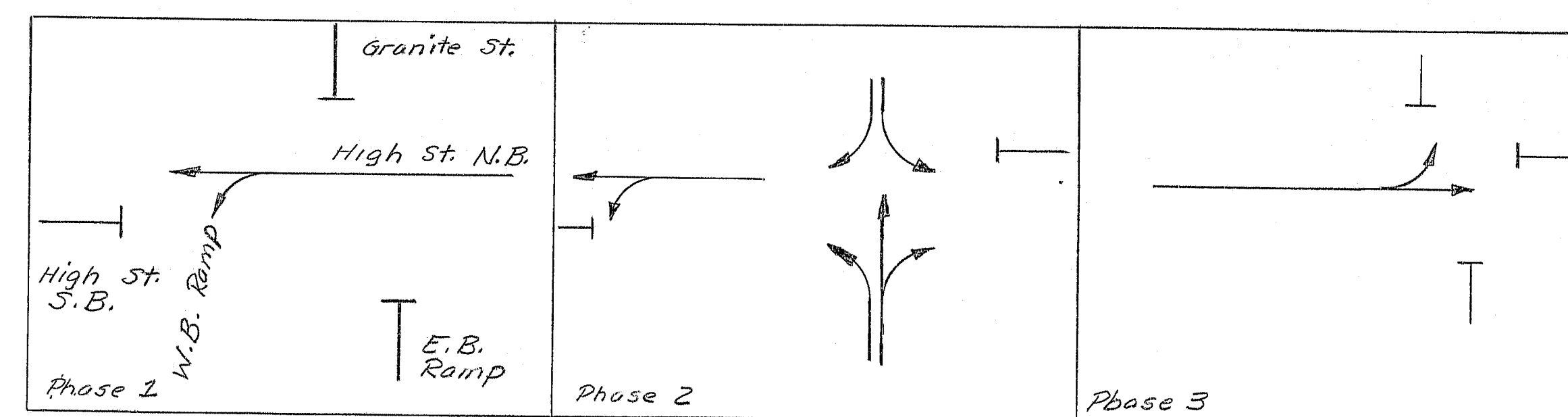
F.R.A. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	B4-1801(3)	3	6



PLAN



PROFILE ALONG BRIDGE



Timing (80 Second Dial) 23 sec Yel 3 sec +0 Red 16 sec Yel 3 sec Red +5.5 sec 22 sec Yel 3 sec Red +5.5 sec

SIGNAL PHASING SEQUENCE CHART	HEAD	INT.	1	2	3	4	5	6	7	8	9	1
High St. S.B.	R	R	R	R	R	R	G	Y	R	R		
High St. N.B.	G	Y	R	R	R	R	R	R	R	G		
E.B. Ramp	R	R	R	G	Y	R	R	R	R			
Granite St.	R	R	R	G	Y	R	R	R	R			

107-500

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION 64
HIGH STREET BRIDGE
OVER
U. S. ROUTE 1
in the city of
BATH
SAGadahoc COUNTY
Plan & Profile
SHEET OF AUGUSTA, MAINE May 1983

PROJECT DESIGN ENGINEER	BY	DATE
DESIGN - DETAILED	LAW	10-82
CHECKED		
REVISIONS		
FIELD CHANGES		

PRINTING 4412 2570