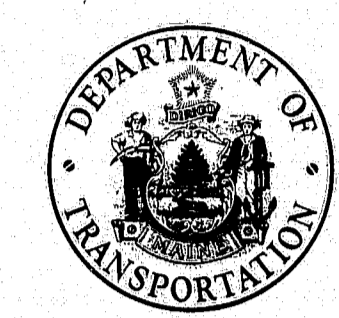


F.H.W.A. DIST. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	TQI-95-7(79)	1	8
TQI-7019-95-7(80)				

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION



BUREAU OF HIGHWAYS
REHABILITATION
OF BRIDGE DECK
ON
I-95 NORTHBOUND
OVER

SOUADABSCOOK STREAM
WEST BRIDGE, CENTER BRIDGE
AND EAST BRIDGE
PROJECT NUMBER TQI-95-7 (79) 170
LENGTH OF PROJECT 0.188 MILES
AND
I-95 NORTHBOUND
OVER
EMERSON MILL ROAD AND B&A RR
PROJECT NUMBER TQI-TQIG-95-7(80)172
LENGTH OF PROJECT 0.080 MILES
IN THE TOWN OF
HAMPDEN
PENOBSCOT COUNTY

CONVENTIONAL SIGNS

COUNTY LINES	-----	TRAVELLED WAY - PROPOSED	=====
TOWN LINES	-----	UNDERGROUND UTILITIES - EXISTING	-----
PROPERTY LINES	-----	UNDERGROUND UTILITIES - PROPOSED	-----
R/W LINES - EXISTING	=====	RAILROAD - SINGLE TRACK	=====
R/W LINES - NEW - ACCESS CONTROL	=====	RAILROAD - DOUBLE TRACK	=====
R/W LINES - NEW - NO ACCESS CONTROL	=====	UTILITY POLE - EXISTING	◆
CULVERT - EXISTING	=====	UTILITY POLE - JOINT OCCUPANCY	◆
CULVERT - PROPOSED	=====	PROPOSED UTILITY POLE - TEMPORARY	X
CURBING - EXISTING	=====	PROPOSED UTILITY POLE - PERMANENT	◆
CURBING - PROPOSED	=====	TREES	○
TRAVELLED WAY - EXISTING	=====	WOODS	⊗

INDEX OF SHEETS

- 1.....TITLE SHEET
- 2.....ESTIMATE OF QUANTITIES AND NOTES
- 3.....SOUADABSCOOK STREAM BRIDGES - PLAN AND DETAILS
- 4.....EMERSON MILL AND B&A RR - PLAN AND DETAILS
- 5.....APPROACHES AND REINFORCING STEEL
- 6.....CONSTRUCTION SIGNING

- HIGHWAY STANDARD DETAILS -

- 7.....AUG. 1969.....(11).....REV. 3-25-76
- 8.....AUG. 1969.....(12).....REV. 3-16-73

SPECIFICATIONS
DESIGN.....A.A.S.H.T.O. Standard Specifications for Highway Bridges 1973 and Interim Specifications 1974 thru 1977.
CONTRACT.....State of Maine, State Highway Commission, Standard Specifications, Highways and bridges, Revision of June 1968.

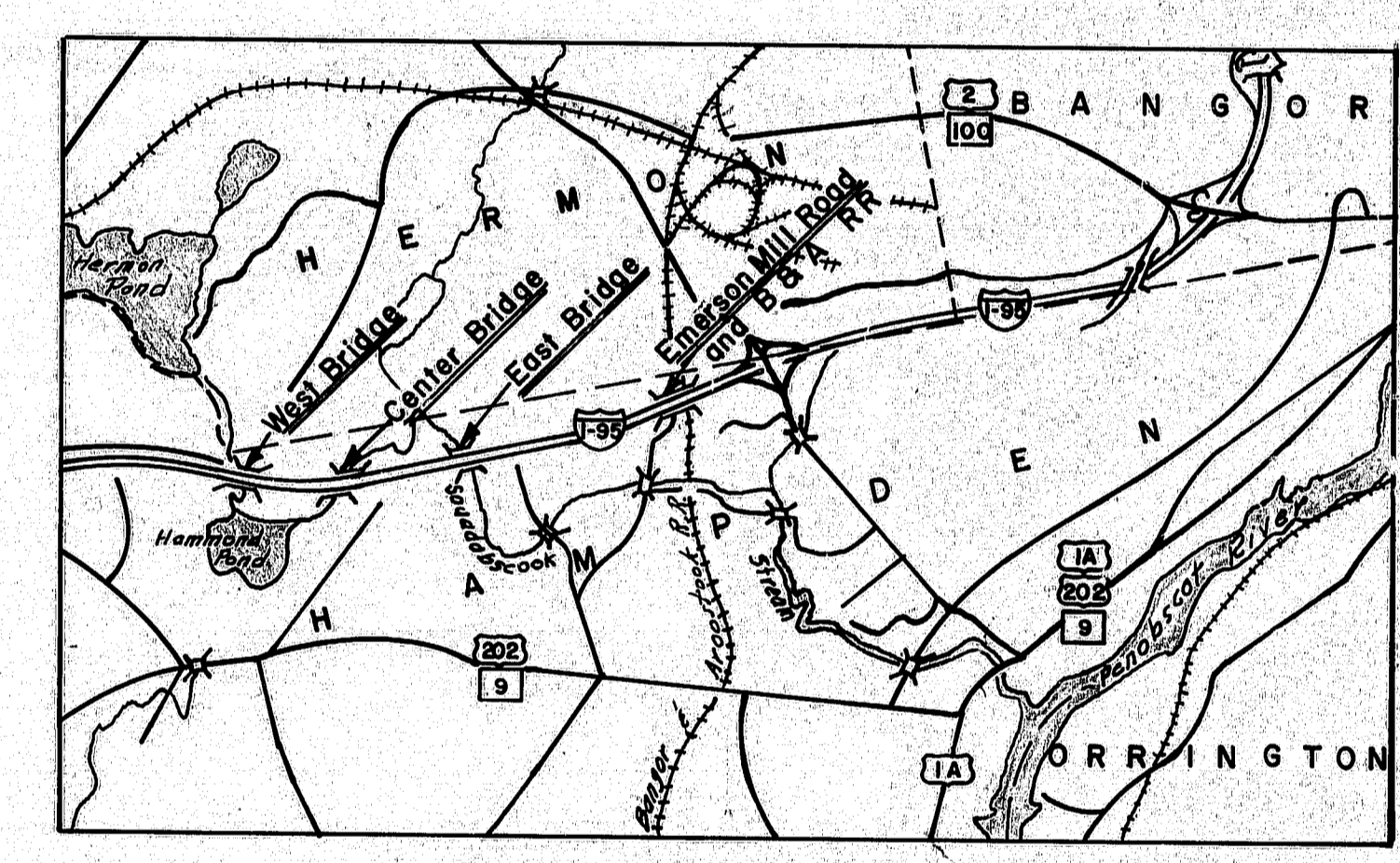
MATERIALS
CONCRETE.....Class A A
REINFORCING STEEL.....A. S. T. M. A615.....Grade 60
STRUCTURAL STEEL.....A S T M A36
H. S. BOLTS.....A. S. T. M. A325.....Type 3

BASIC ALLOWABLE STRESSES
CONCRETE.....fc = 1200 p.s.i.....n = 10
REINFORCING STEEL.....fs = 24,000 p.s.i.
STRUCTURAL STEEL.....A36.....fs = 20,000 p.s.i.
STRUCTURAL STEEL.....A325.....fv = 13,500 p.s.i.

TRAFFIC DATA I-95 NORTHBOUND

A. D. T.	1978	4285
A. D. T.	1998	6275
D. H. V.		13
T. (%)		15
D. (%)		100
V.		55 m. p. h.
P. S. D. (%)		N/A
18 KIPS		Equiv. P2.5 N/A

NOTE: All work contemplated under this contract shall be governed by and in conformity with the Standard Specifications (Revision of 1968) and Supplements thereto, except as modified on the Plans and in the Special Provisions.



APPROVED: STATE OF MAINE DEPARTMENT OF TRANSPORTATION
Richard A. Luettich, Sr. COMMISSIONER
BUREAU DIRECTOR AND CHIEF ENGINEER

DATE: May 30, 1978
DATE: May 30, 1978

AS BUILT 1979

UNITED STATES DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION REGION I

APPROVED: _____
DIVISION ADMINISTRATOR

DATE: _____

PROJECT BUILT: 1979
REVISED AS-BUILT: 9/26/19 JHI

166-158

ESTIMATE OF QUANTITIES

F.R.E. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	T&I-95-7(19)	2	8

T&I-7014-95-7(20)

Item	Description	Unit	QUANTITIES		
			I-95 N.B. over Souadabscook Stream Bridges	I-95 N.B. over Emerson Mill and B&A R.R.	Total
202.20	Removing Bituminous Concrete Pavement	Sq. Yds.	2,680	900	3,580
202.201	Removing Bituminous Concrete Pavement (Including Membrane Waterproofing)	Sq. Yds.	1,750	990	2,740
403.08	Hot Bituminous Pavement, Grading C	Ton	280	92	372
403.121	Hot Bituminous Pavement, Grading E (Shimming)	Ton	30	10	40
502.441	Wearing Surface Concrete	Cu. Yds.	170	97	267
503.12	Reinforcing Steel, Fabricated & Delivered	Lbs.	12,540	7,280	19,820
503.13	Reinforcing Steel, Placing	Lbs.	12,540	7,280	19,820
504.7801	Armored Joint Modifications (Souadabscook Stream Bridges)	Lump Sum	Nec.	—	Nec.
504.7802	Armored Joint Modifications (Emerson Mill & B & A RR Bridge)	Lump Sum	—	Nec.	Nec.
514.06	Curing Box For Concrete Cylinders	Each	0.5	0.5	1
515.20	Protective Coating For Concrete Surfaces	Sq. Yds.	1,750	990	2,740
629.05	Labor, Straight Time Traffic Officers	Man Hr.	30	30	60
631.10	Air Compressor (including operator)	Hour	10	10	20
631.11	Air Tool (including operator)	Hour	10	10	20
631.171	Truck - small (including operator)	Hour	10	10	20
631.22	Front End Loader (including operator)	Hour	10	10	20
639.10	Field Office, Type C	Each	0.5	0.5	1
645.61	4 Inch Solid White Pavement Marking Line	L.F.	4800	3600	8400
645.62	4 Inch Broken White Pavement Marking Line	L.F.	1600	1200	2800
645.63	4 Inch Solid Yellow Pavement Marking Line	L.F.	1600	1200	2800
645.69	Pavement Markings Removed	L.F.	5600	5200	10800
652.25	Maintenance of Traffic	Lump Sum	75%	25%	Nec.
659.10	Mobilization	Lump Sum	75%	25%	Nec.

NOTES:

- The Contractor shall maintain traffic at all times with a minimum lane width of 16 Feet.
- The Contractor shall remove the existing bituminous wearing surface and membrane waterproofing from the bridge structures.
- Existing concrete shall be removed from the superstructure slab at the armored joints as shown on the plans. Payment for removing concrete as described will be incidental to Item 504.7801 or 504.7802, "Armored Joint Modifications." At the Armored Joint the concrete removed from the roadway slab shall be replaced with concrete monolithic with the structural concrete wearing surface. Payment for replacing the removed concrete in the superstructure slab as described above will be made under Item 502.441, "Wearing Surface Concrete."
- The Contractor shall remove the existing joint sealer and filler from the curb joint openings as shown on the plans to the satisfaction of the Engineer and install a 10" long preformed elastic joint seal. The seals shall have nominal uncompressed dimensions as shown in Table A. Payment for removing the existing joint sealer and filler will be incidental to Items 504.7801 & 504.7802, "Armored Joint Modifications."
- The Contractor shall straighten existing bent armored joint steel by an approved method where directed by the Engineer. Payment will be made under the appropriate labor and equipment rental items. Payment for the rental of equipment not included as an item in this contract will be made on a Force Account basis as provided in subsection 108.04 of the Standard Specifications.
- At the armored joints, the Contractor shall cut and grind smooth the existing structural steel as shown on the plans. The existing joint sealer and filler shall be removed to a depth of 6 inches minimum and the face of the existing armored joint steel that remains shall be cleaned to the satisfaction of the Engineer. Payment for cutting and grinding the existing steel, removing the existing joint sealer and filler and cleaning the armored joints will be incidental to Item 504.7801 or 504.7802, "Armored Joint Modifications."
- No paint is required on any new or existing steel.
- The Preformed Elastic Joint Seal shall have minimum Movement Ratings as follows:

- The joint openings will vary depending on the dimensions of the seal selected by the Contractor. The joint opening shall be set according to the opening shown on the approved "Armored Joint" shop detail drawings.
- The seal shall be approved by the Engineer prior to fabrication of the armored joint.
- Reinforcing steel shall have a minimum cover of 2 inches unless otherwise indicated.
- Protective Coating For Concrete Surfaces shall be applied over the entire surface area of the concrete wearing surface of all four structures and on the rebuilt end part at the Emerson Mill structure.

LOCATION	DIMENSION
195 Northbound over Souadabscook Stream	
195 East & West Abutment #1	1 3/4"
Abutment #2	1 3/8"
195 Center Abutment #1	1 3/4"
Abutment #2	2"
195 Northbound over Emerson Mill Road and Bangor & Aroostook Railroad	
Abutment #1 and Piers #1, #2 & #3	1 3/8"
Abutment #2	1 3/8"

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.

I-95 NORTHBOUND OVER SOUADABSCOOK STREAM	
LOCATION	MOVEMENT RATING
Abutment #1, West, Center and East Bridges	1.125"
Abutment #2, West and East Bridges	0.500"
Abutment #2, Center Bridge	0.750"
I-95 NORTHBOUND OVER EMERSON MILL ROAD AND BANGOR AND AROOSTOOK RAILROAD	
LOCATION	MOVEMENT RATING
Abutment #1 and Piers #1, #2 & #3	0.750"
Abutment #2	0.500"

As-Built 9/26/79 J.H.

PROJECT DESIGN ENGINEER	DATE
CHECKED	5-78
REVISIONS	6-78
FIELD CHANGES	
PLANS	

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

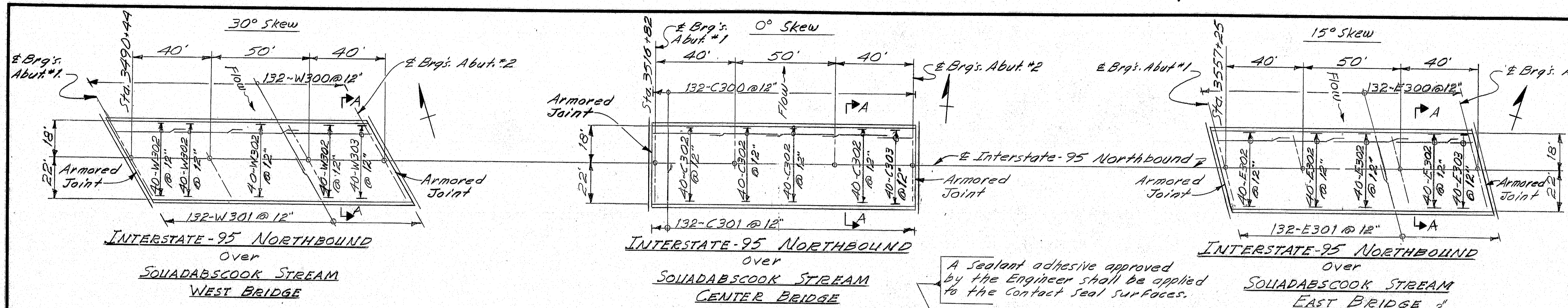
**I-95 NORTHBOUND
OVER
SOUADABSCOOK STREAM BRIDGES
AND
EMERSON MILL ROAD & B&A RR**

IN THE TOWN OF
HAMPDEN
PENOBSCOT COUNTY

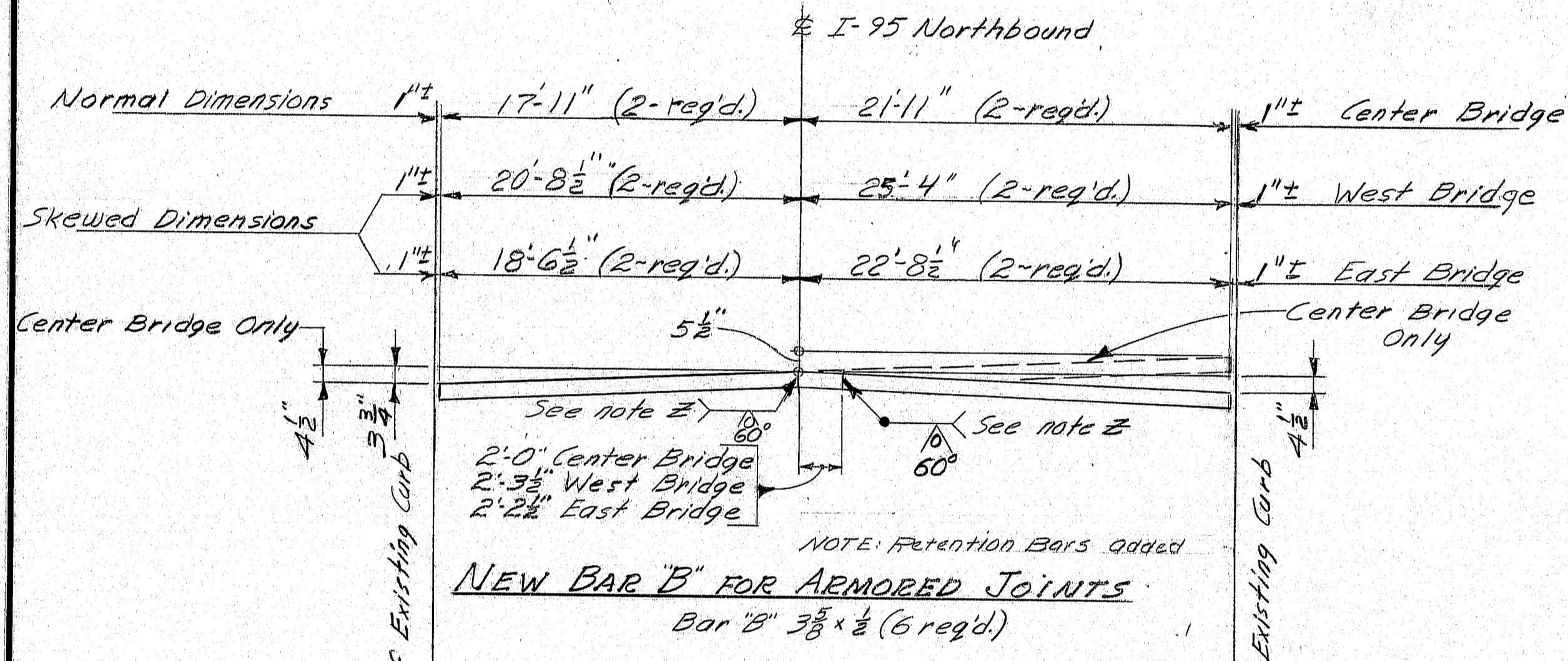
ESTIMATE OF QUANTITIES & NOTES
SHEET 2 OF 8 AUGUSTA, MAINE JUNE 1978

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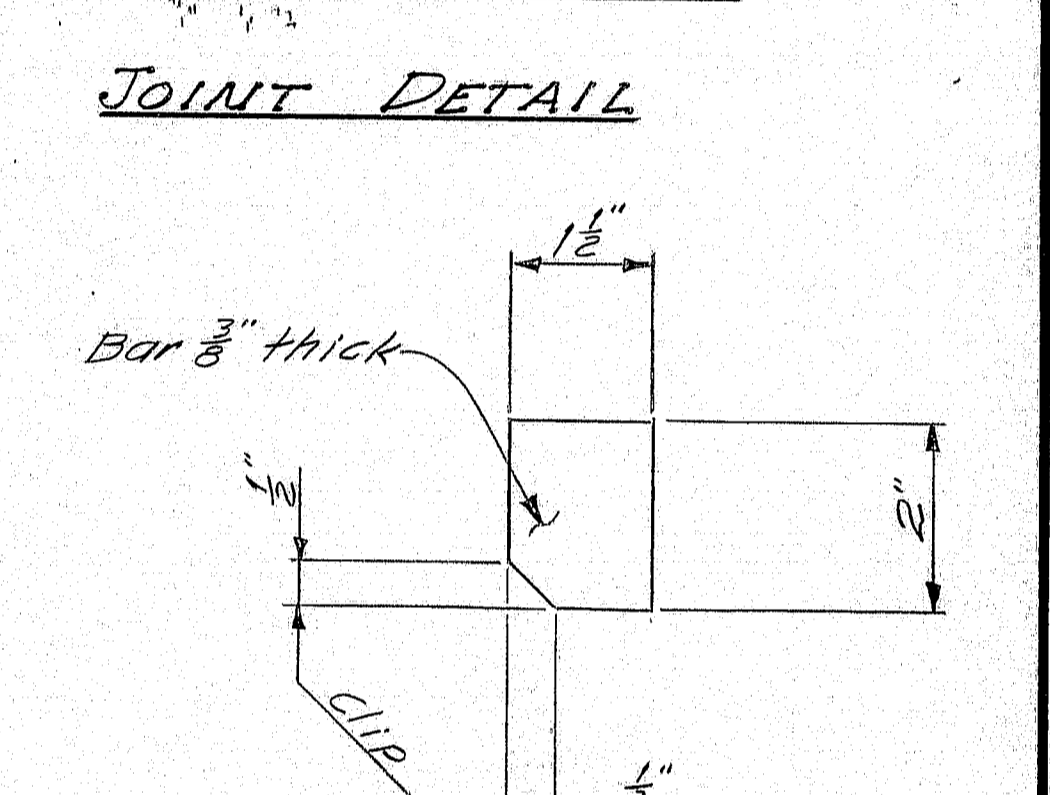
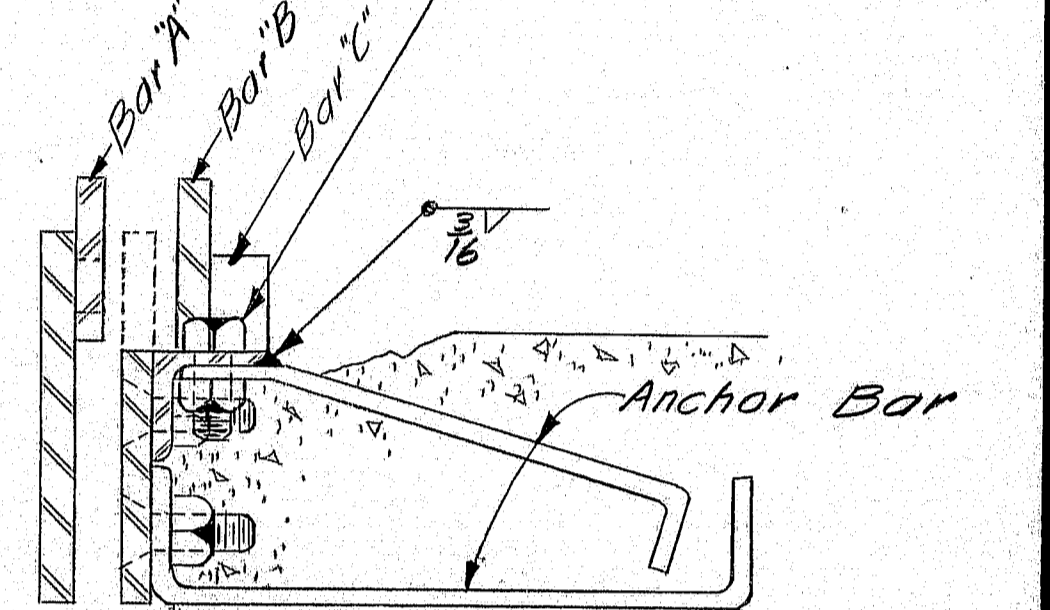
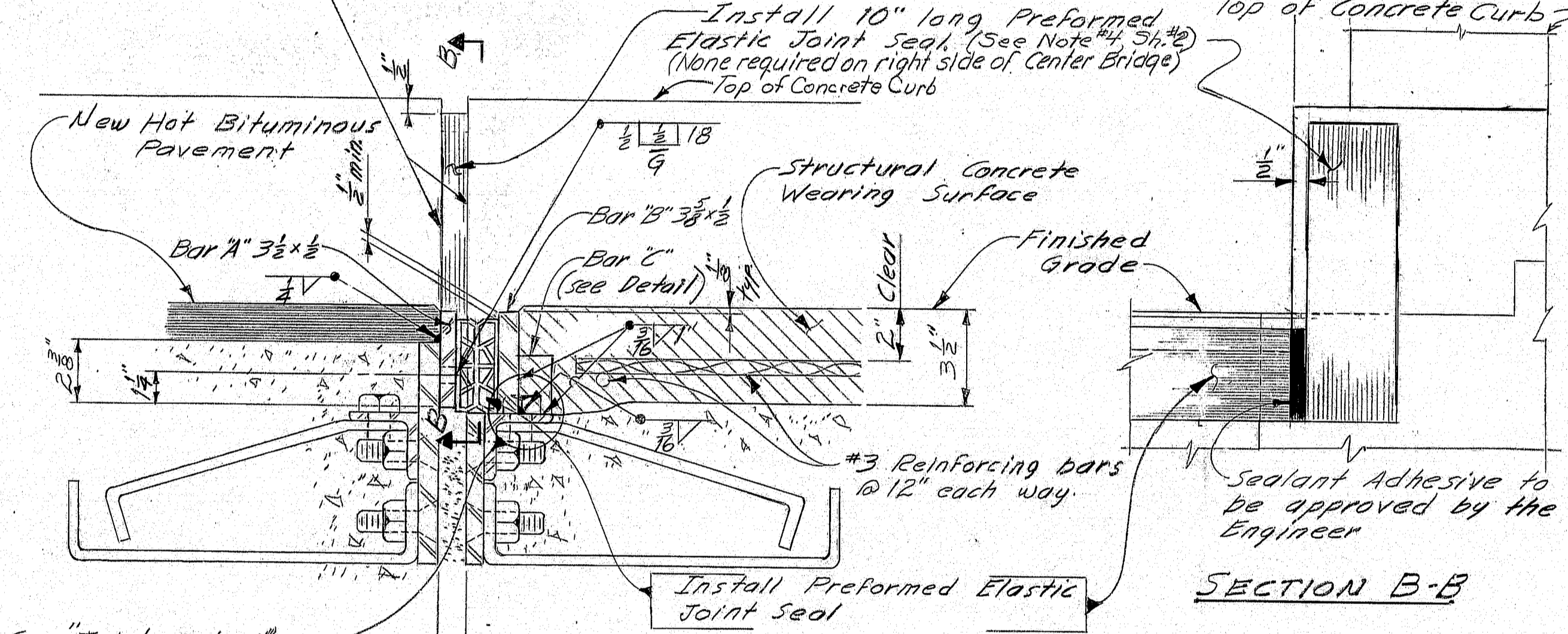
F.H.W.A. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	TQI-95-797	3	8



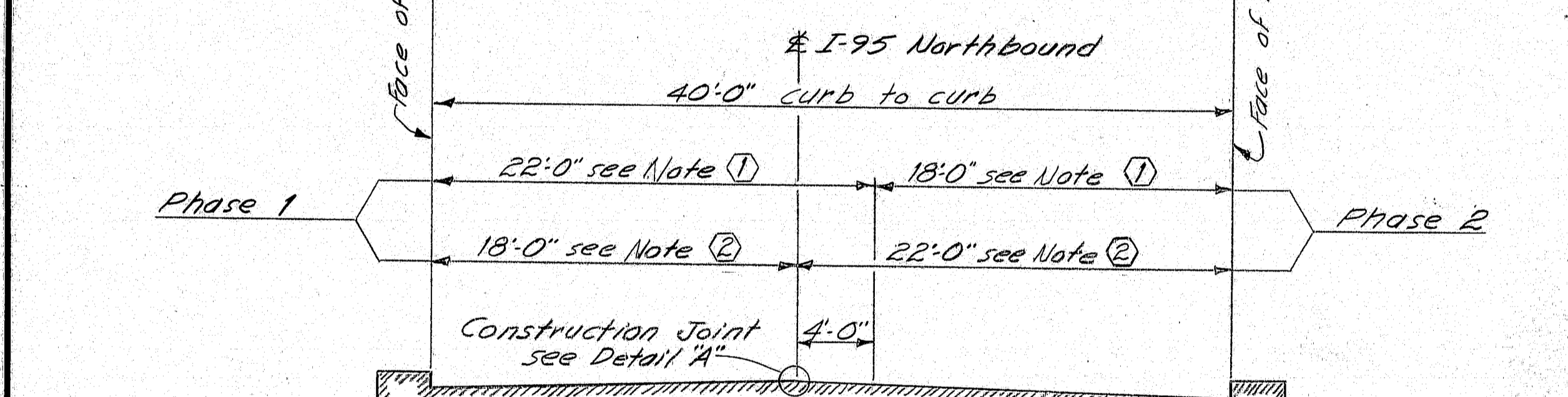
At Abutment #1, West, Center and East Bridges, the contractor shall remove the bolt heads by clipping or other method approved by the Engineer. Where bolt heads are removed, the contractor shall weld the existing anchor bars as shown. Payment shall be incidental to Item 504.7301, Armored Joint Modifications.



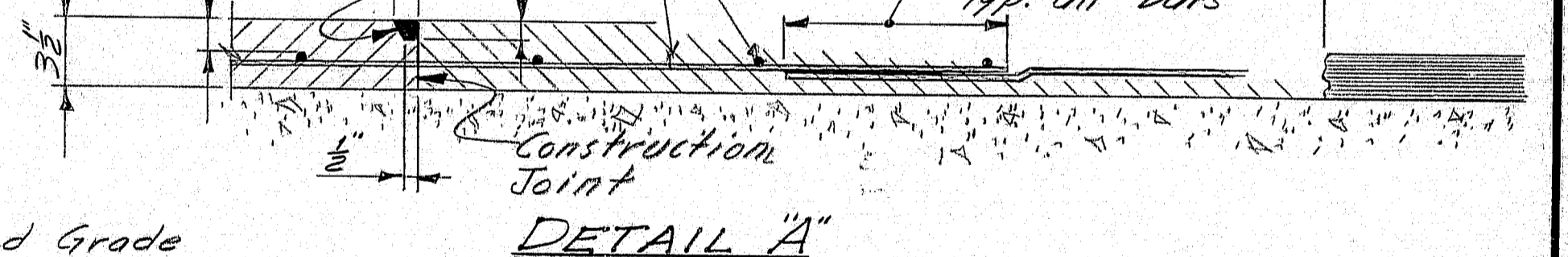
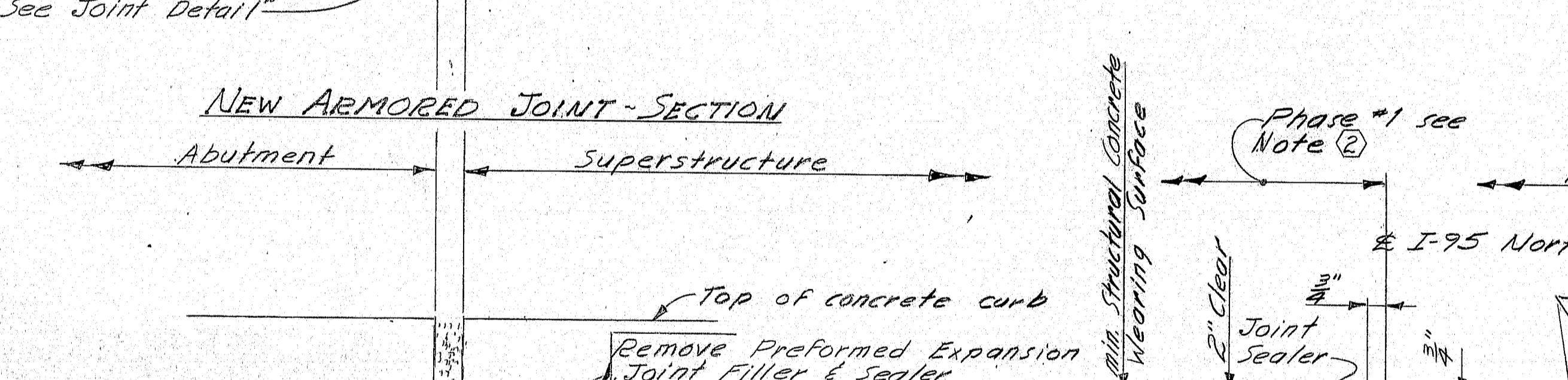
NEW BAR 'B' FOR ARMORED JOINTS
Bar 'B' 3/8" x 3/8" (6 req'd)



BAR 'C' DETAIL
Spaced @ 2'-0" / 1'-0"



NEW BAR 'A' FOR ARMORED JOINTS
Bar 'A' 3/2" x 3/2" (6 req'd)



REFERENCES
For Notes see sheet #2
For Drain Detail see sheet #4

PROJECT DESIGN ENGINEER	BY	DATE
DESIGN - DETAILED	WJZ	5-28
CHECKED	WJZ	5-28
REVISIONS		
FIELD CHANGES		

Note ① Remove Existing Pavement & Membrane Waterproofing
Note ② Place 3/8" Structural Concrete Wearing Surface

Damaged armored joints shall be heated and straightened as directed by the Engineer.

Note ③: Grind smooth on face where Preformed Elastic Joint Seal will be installed

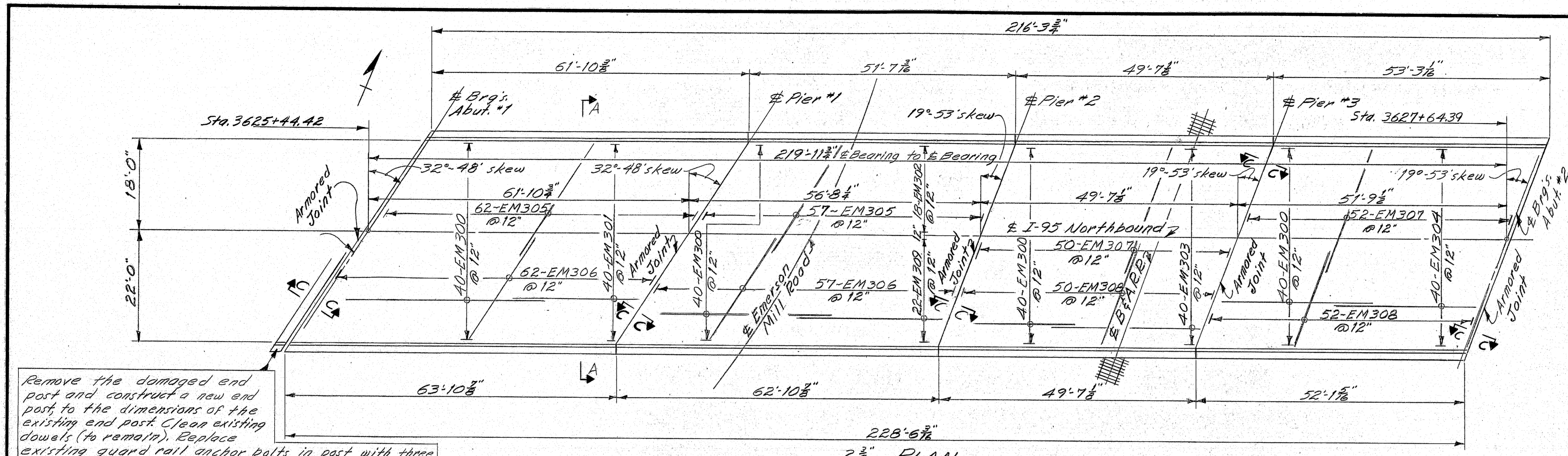
STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

**I-95 NORTHBOUND
OVER
SQUADABSCOOK STREAM BRIDGES**
IN THE TOWN OF
HAMPDEN
PENOBSCOT COUNTY
PLAN AND DETAILS

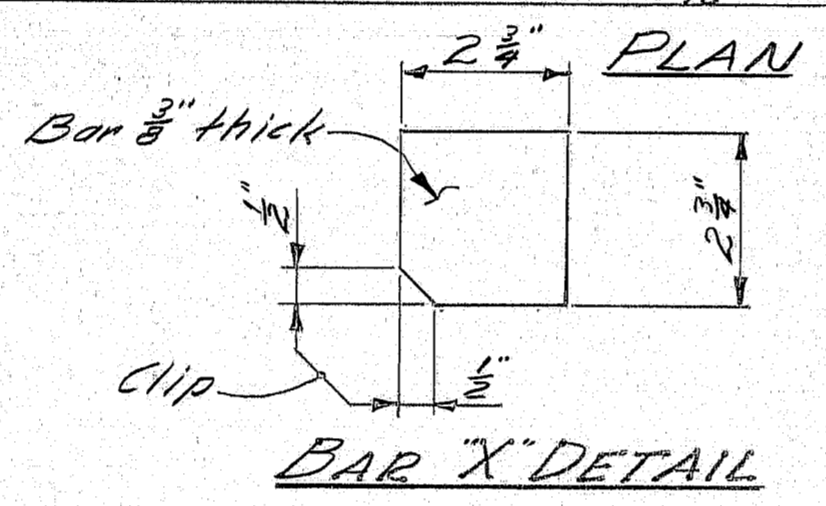
SHEET 3 OF 8 AUGUSTA, MAINE JUNE 1978

166-160

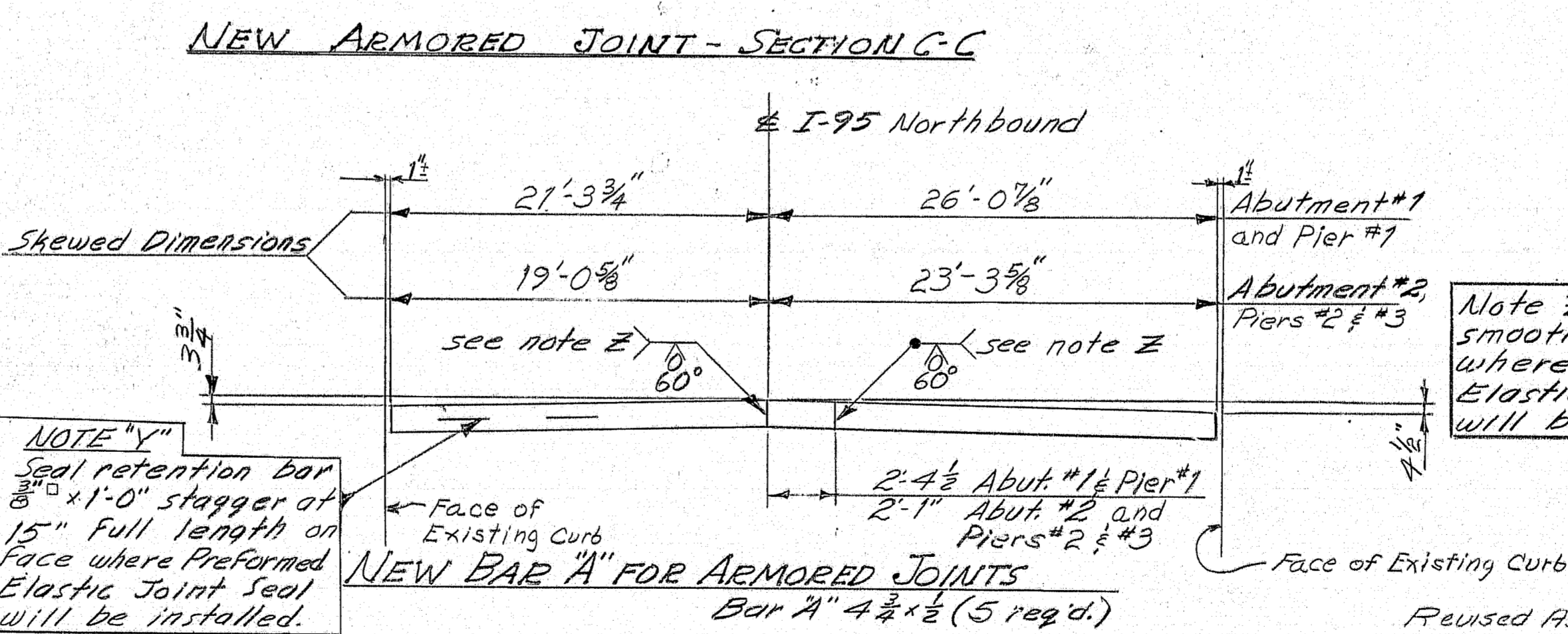
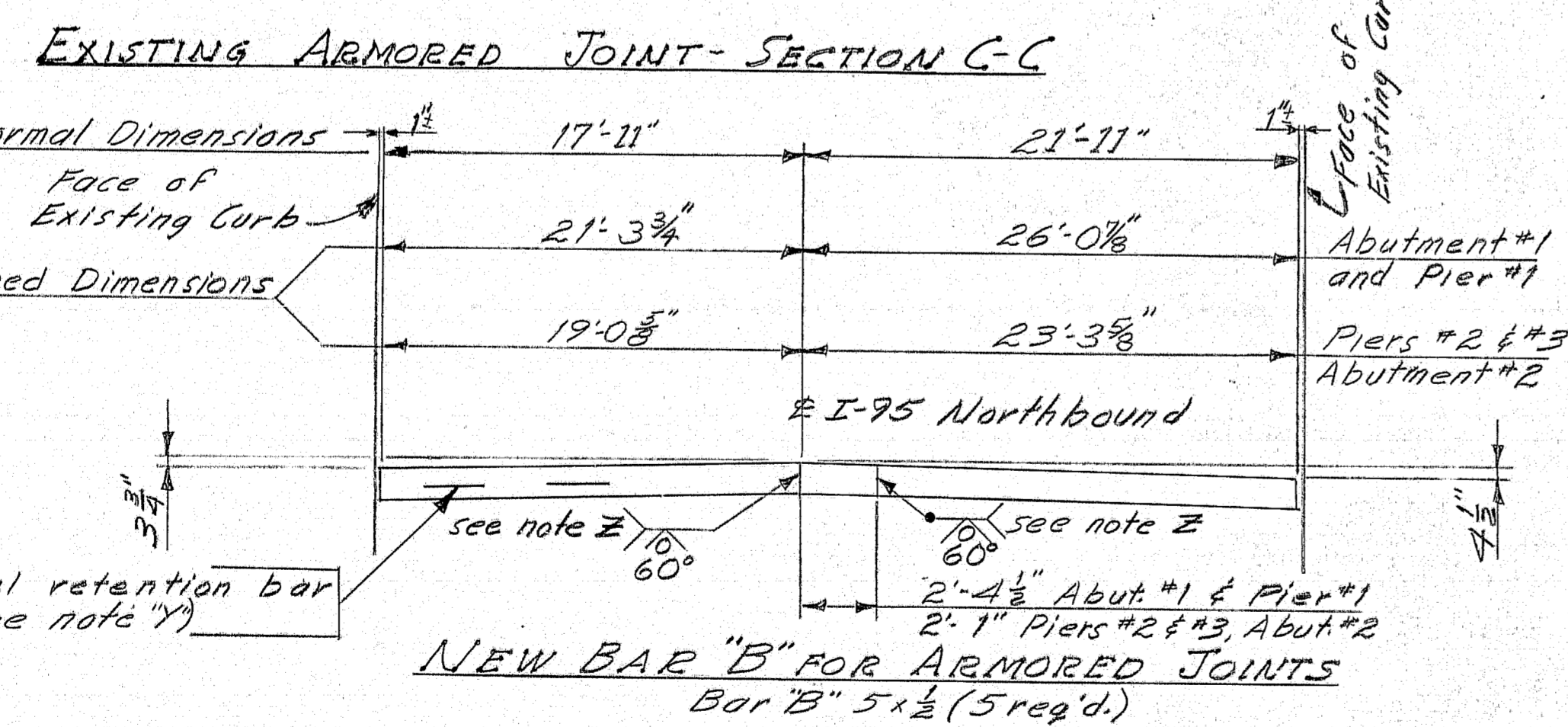
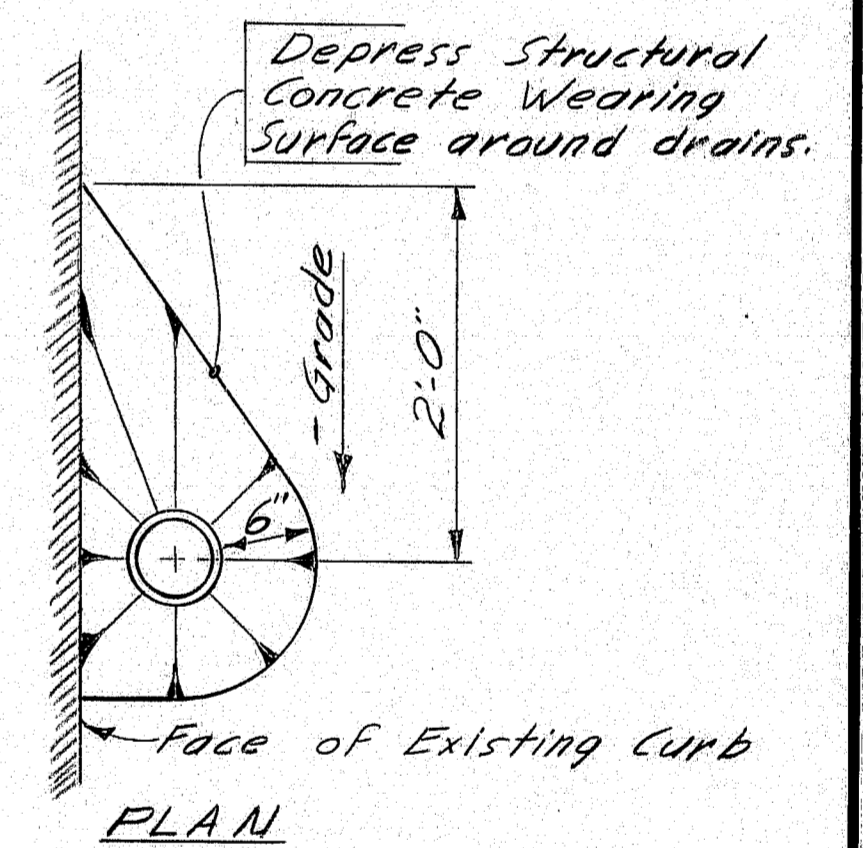
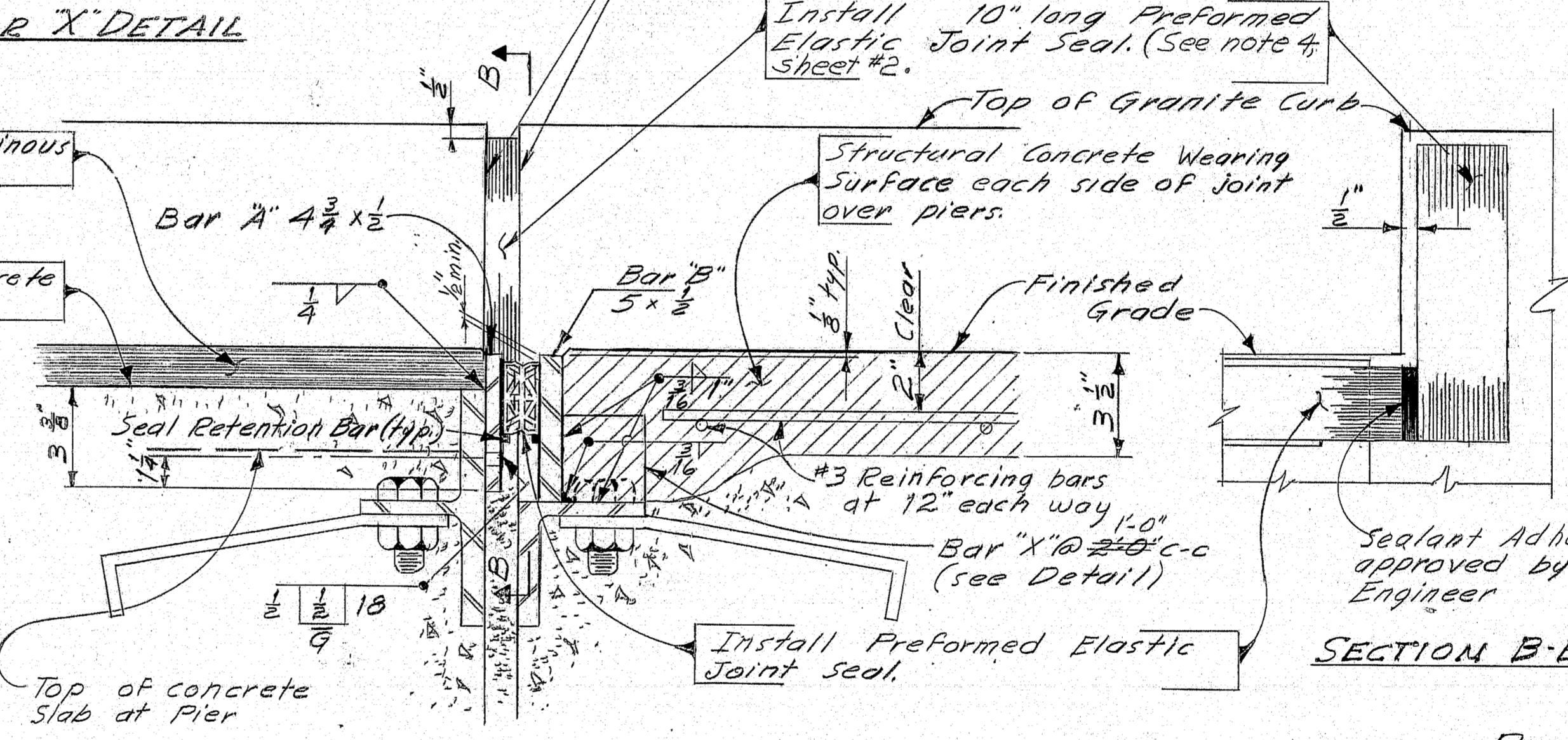
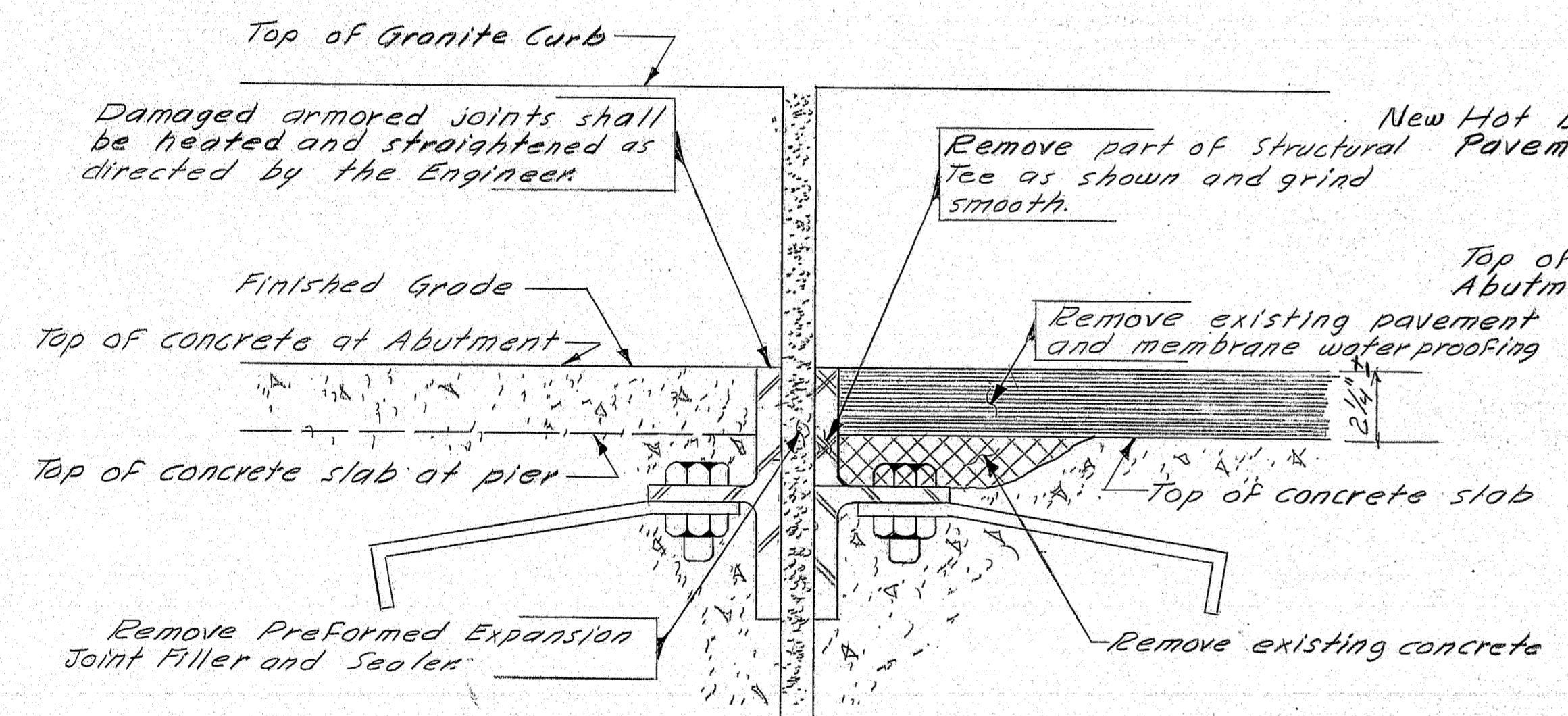
F.W.A. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	702-700-95-708	4	8



Remove the damaged end post and construct a new end post to the dimensions of the existing end post. Clean existing dowels (to remain). Replace existing guard rail anchor bolts in post with three 1" x 0'-8" long galvanized high strength bolts. Place E P bars (see Reinforcing Steel Schedule) as directed by the Engineer. Payment for E P bars will be made under Item 503.12 and 503.13, Reinforcing Steel. Payment for all labor and equipment required to remove the existing end post will be incidental to Item 504.7802, Armored Joint Modifications. Payment for the concrete required will be made under Item 502.441, Wearing Surface Concrete.



A Sealant adhesive approved by the Engineer shall be applied to the Contact Seal Surfaces.



NOTE 'Y'
Seal retention bar 3" x 1'-0" stagger at 15" full length on face where Preformed Elastic Joint Seal will be installed.

Note Z: Grind smooth on face where Preformed Elastic Joint Seal will be installed.

REFERENCES
For Notes see sheet #2
For Construction Sequence see Section A-A sheet #3
For Construction Joint (Detail #1) see sheet #3

PROJECT DESIGN ENGINEER	DATE
DESIGN - DETAILED	7/27/78
CHECKED	8/1/78
REVISIONS	BY
FIELD CHANGES	BY

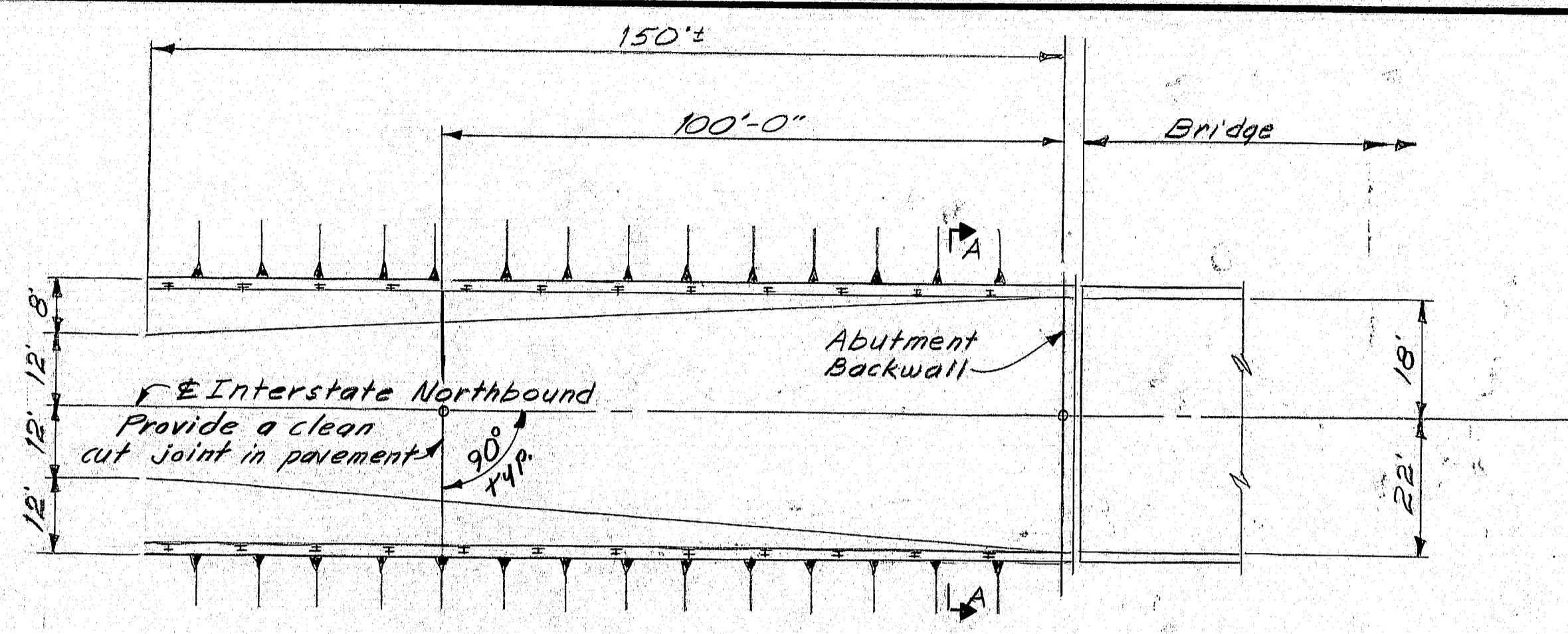
STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

1-95 NORTHBOUND
OVER
EMERSON MILL ROAD AND B&A RR
IN THE TOWN OF
HAMPDEN
PENOBSCOT COUNTY
PLAN AND DETAILS

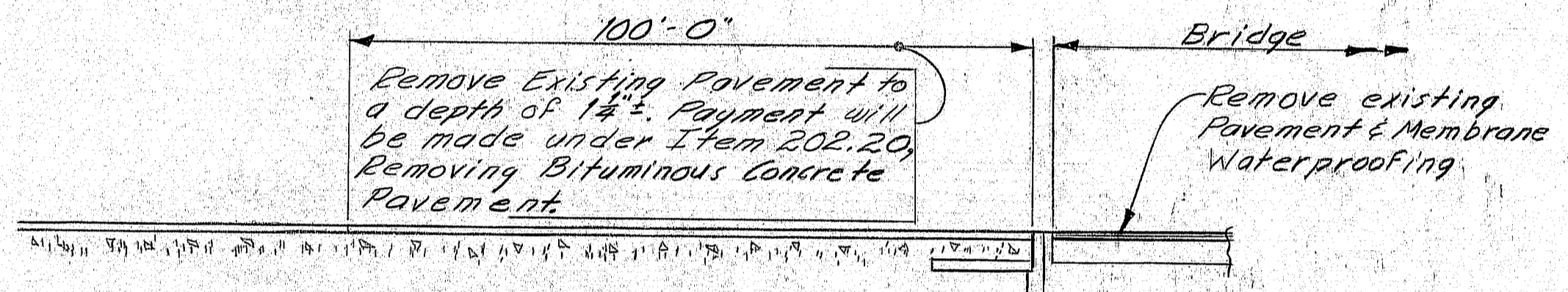
Revised As-Built: 9/25/79 JJE

166-161

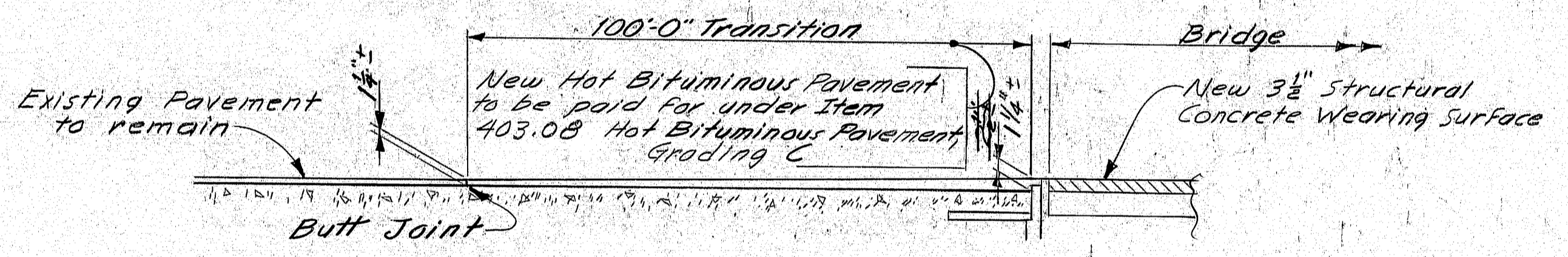
F.W.A. RES. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
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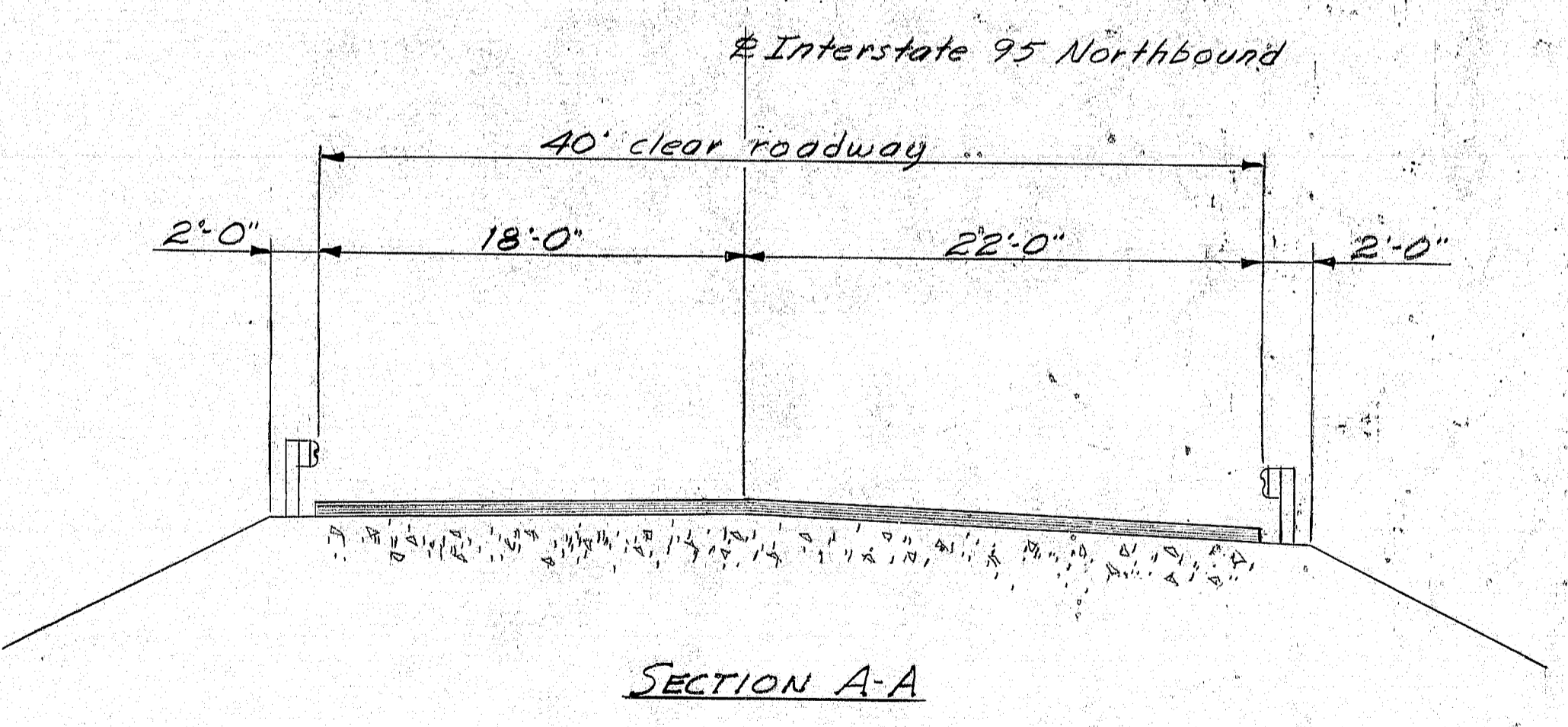
APPROACH PLAN
Souadabscook Center Bridge shown, all other bridges are skewed.



EXISTING PROFILE ALONG & I-95



NEW TRANSITION PROFILE ALONG & I-95



SECTION A-A

REINFORCING STEEL SCHEDULE STRAIGHT BARS				
West Bridge				
MARK	NO	LENGTH	LOCATION	
W300	132	24'-0"	Transverse Phase #1	
W301	132	23'-0"	Transverse Phase #2	
W302	160	30'-0"	Longitudinal	
W303	40	16'-0"	Longitudinal	
Center Bridge				
C300	132	20'-0"	Transverse Phase #1	
C301	132	21'-0"	Transverse Phase #2	
C302	160	30'-0"	Longitudinal	
C303	40	16'-0"	Longitudinal	
East Bridge				
E300	132	21'-0"	Transverse Phase #1	
E301	132	20'-0"	Transverse Phase #2	
E302	160	30'-0"	Longitudinal	
E303	40	16'-0"	Longitudinal	
Emerson Mill Road Bridge				
EM300	160	30'-0"	Longitudinal (40 each span)	
EM301	40	33'-10"	(Span #1)	
EM302	18	27'-7"	Phase #1 Span #2	
EM303	40	20'-6"	(Span #3)	
EM304	40	22'-8"	Longitudinal (Span #4)	
EM305	119	25'-0"	Transverse Phase #1 Spans #1 & #2	
EM306	119	23'-6"	Phase #2 Spans #1 & #2	
EM307	102	22'-0"	Phase #1 Spans #3 & #4	
EM308	102	21'-6"	Transverse Phase #2 Spans #3 & #4	
EM309	22	33'-9"	Longitudinal Phase #2 Span #2	
EP400	1	15'-0"	End Post (Bend, cut to fit as directed by the Engineer)	

Reinforcing Bar: ASTM A615 Grade 60
All Reinforcing Bar size #3 except EP400 #4

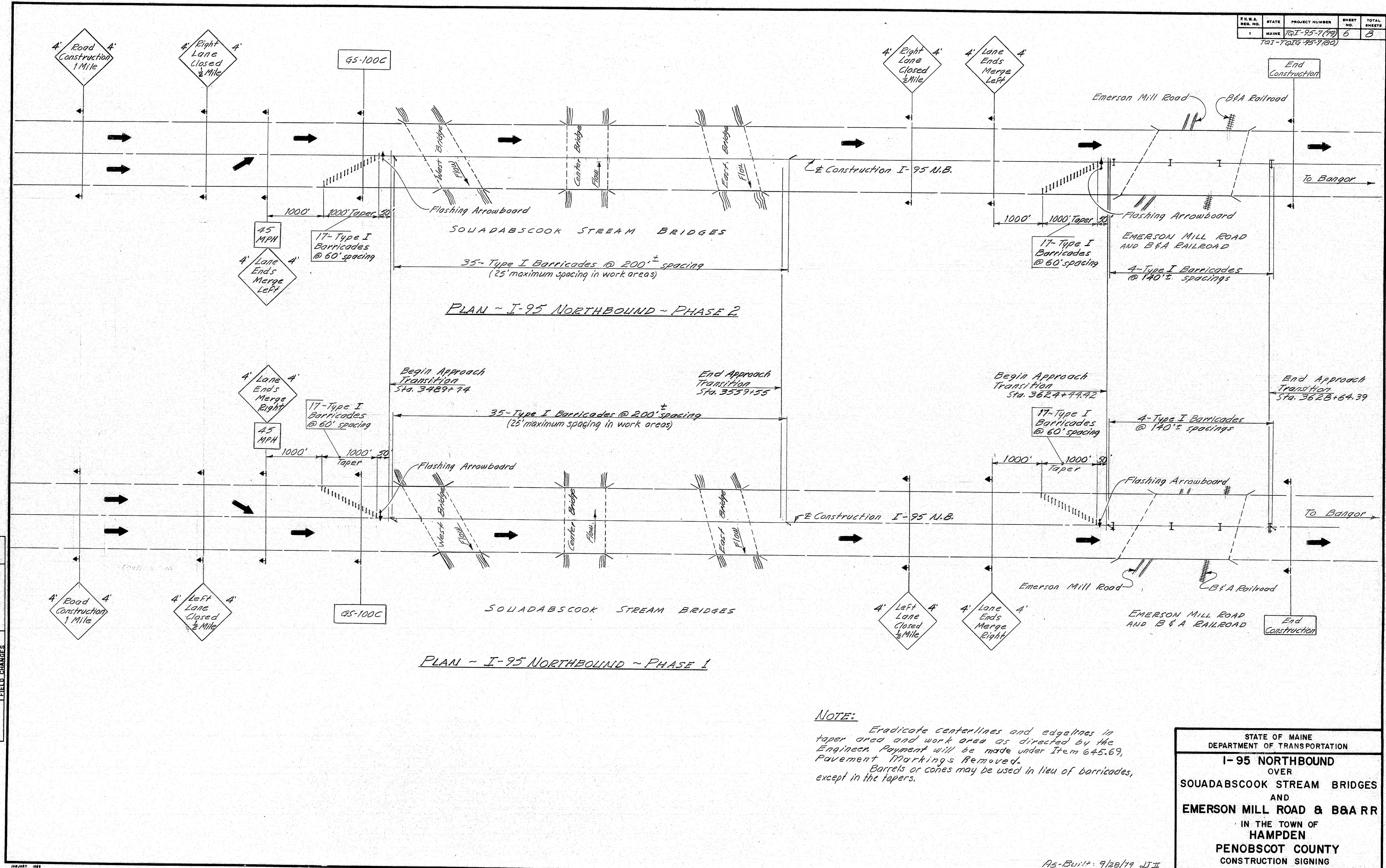
PROJECT DESIGN ENGINEER	BY	DATE
DESIGN - DETAILED	WJZ/LRP	5-78
CHECKED	PJM	5-78
REVISIONS		
FIELD CHANGES		

Revised As-Built 9/28/79 JII

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
I-95 NORTHBOUND
OVER
SOUDABSCOOK STREAM BRIDGES
AND
EMERSON MILL ROAD & B&A RR
IN THE TOWN OF
HAMPDEN
PENOBSCOT COUNTY
APPROACHES & REINFORCING STEEL SCHEDULE
SHEET 5 OF 8 AUGUSTA, MAINE JUNE 1978

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F.R.M.A. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	RD-95-7(99)	6	8
T-1-T-16-95-7(80)				



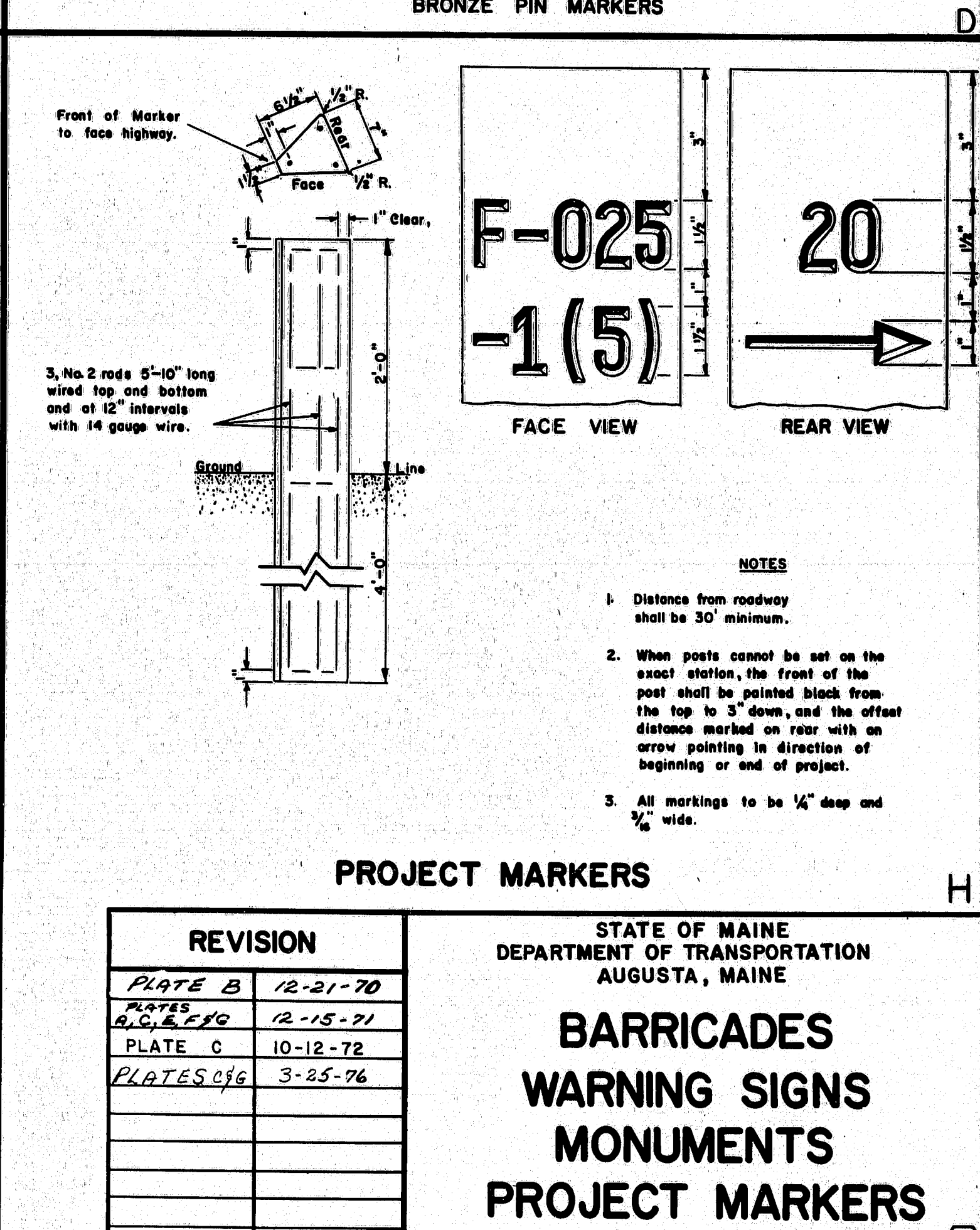
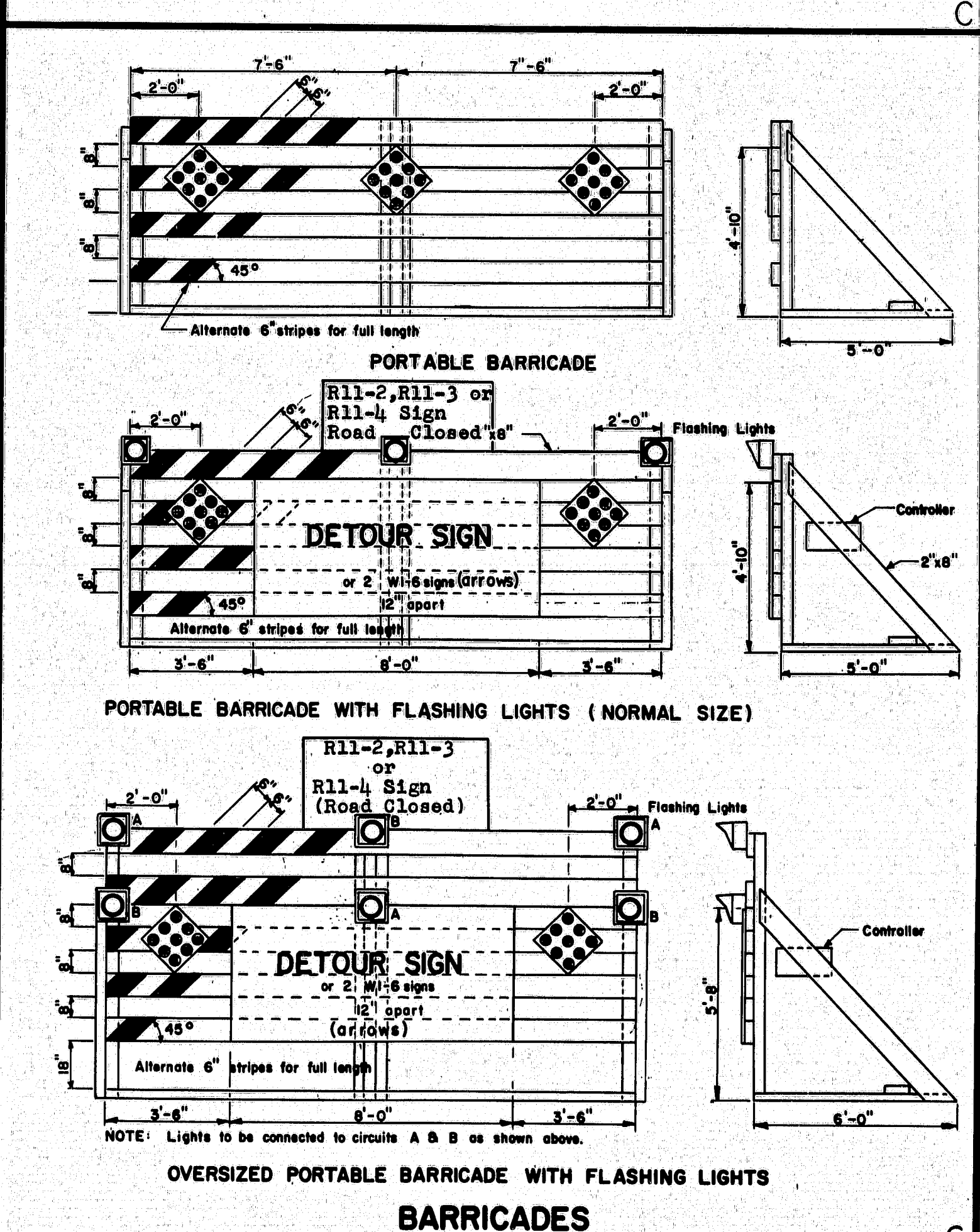
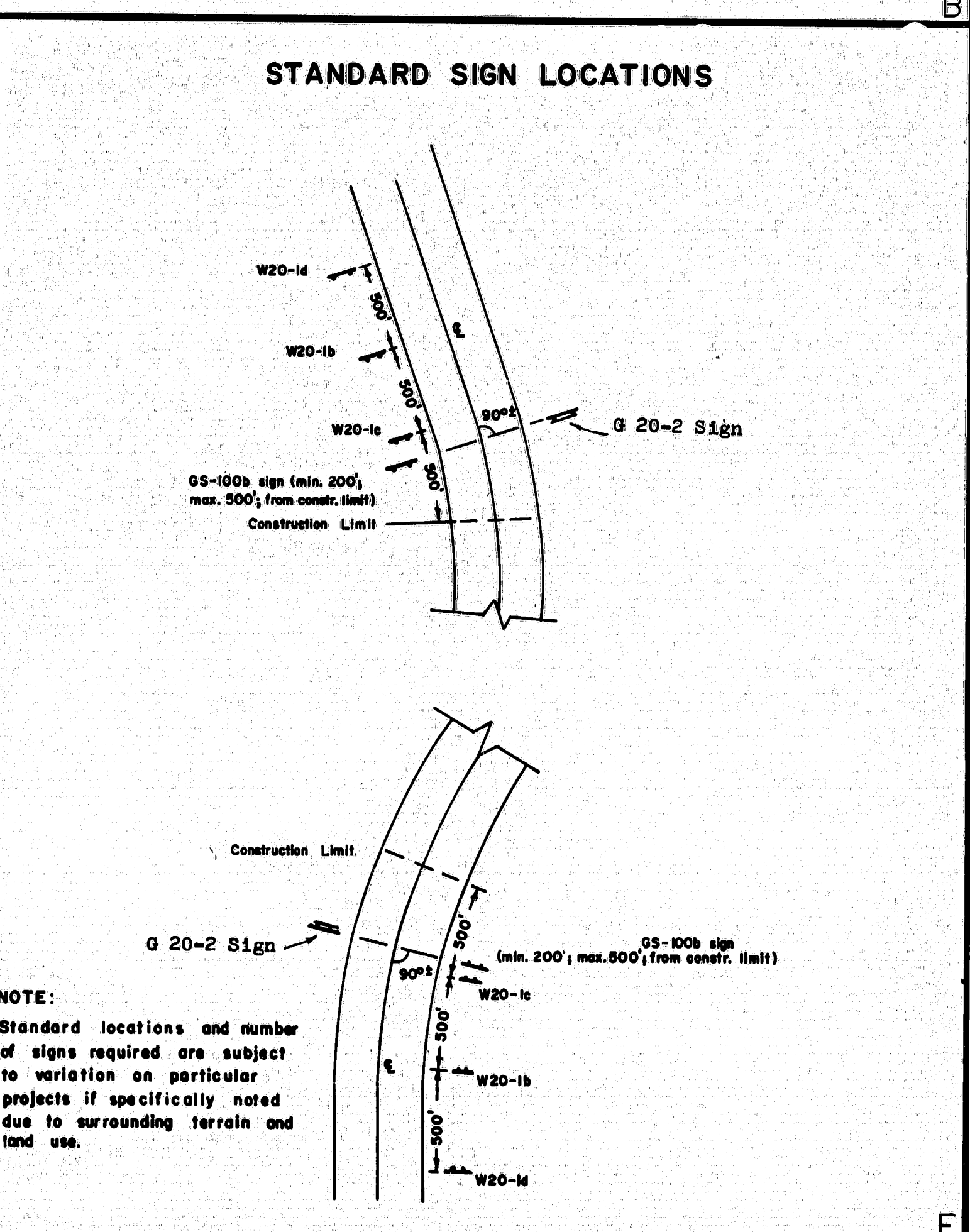
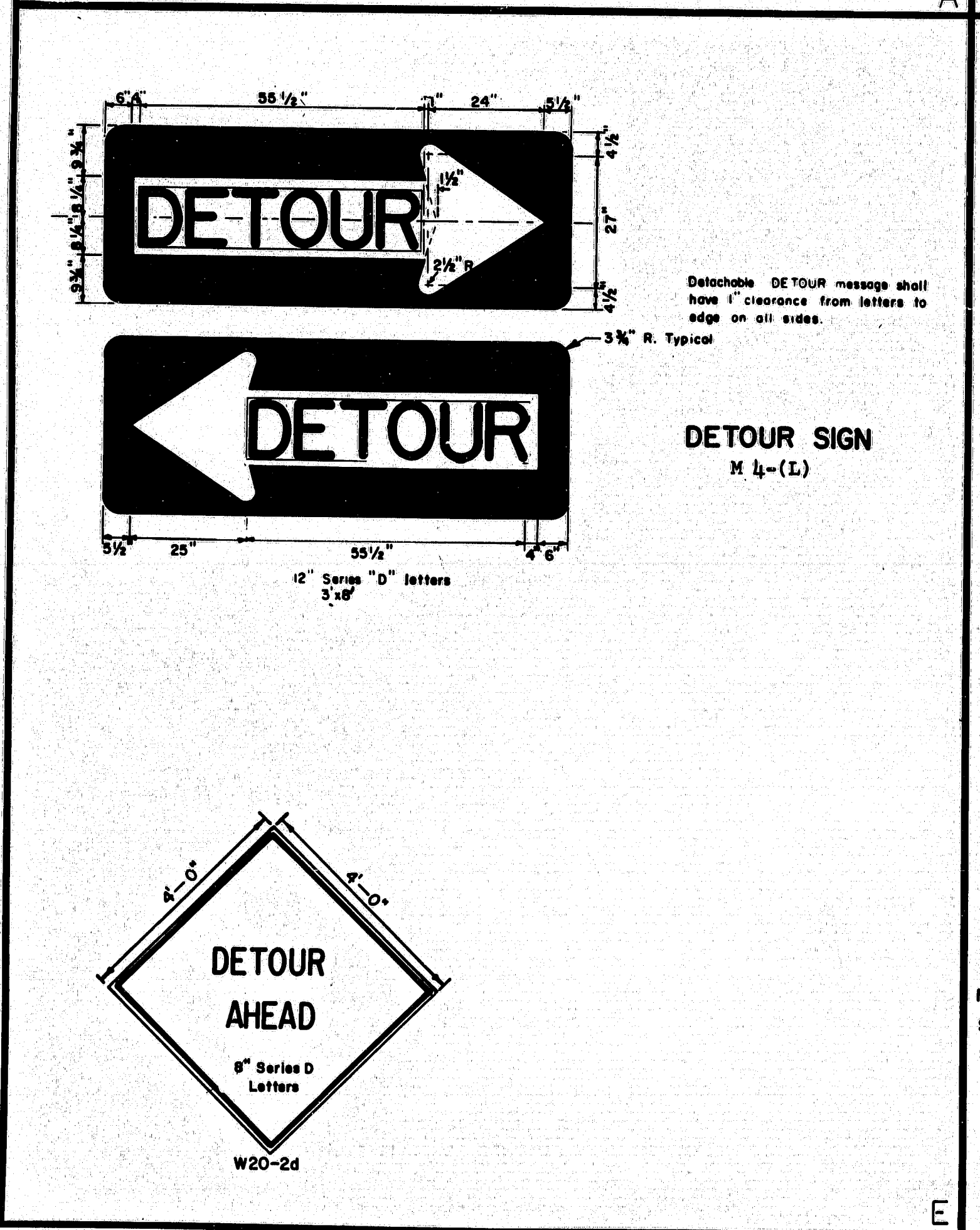
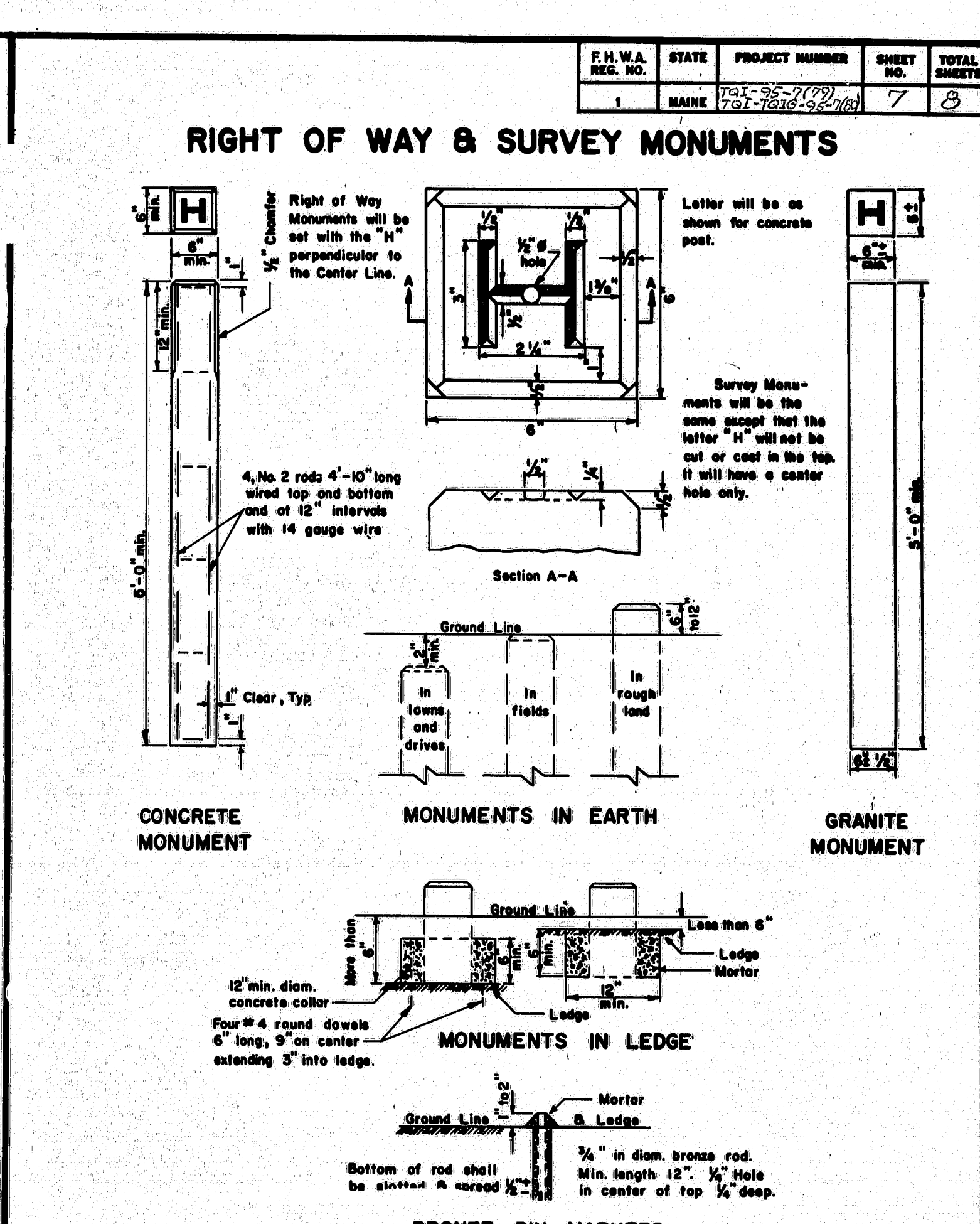
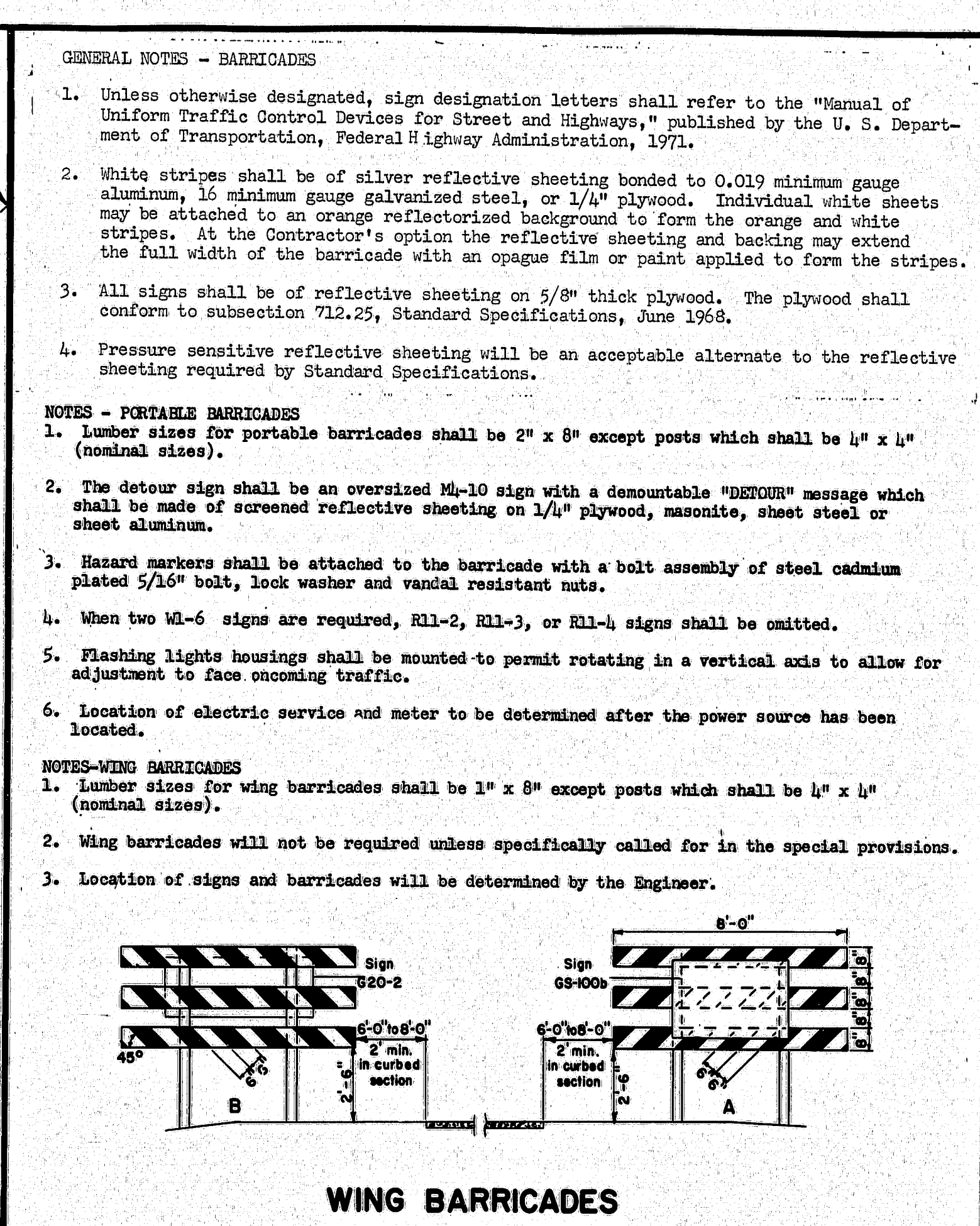
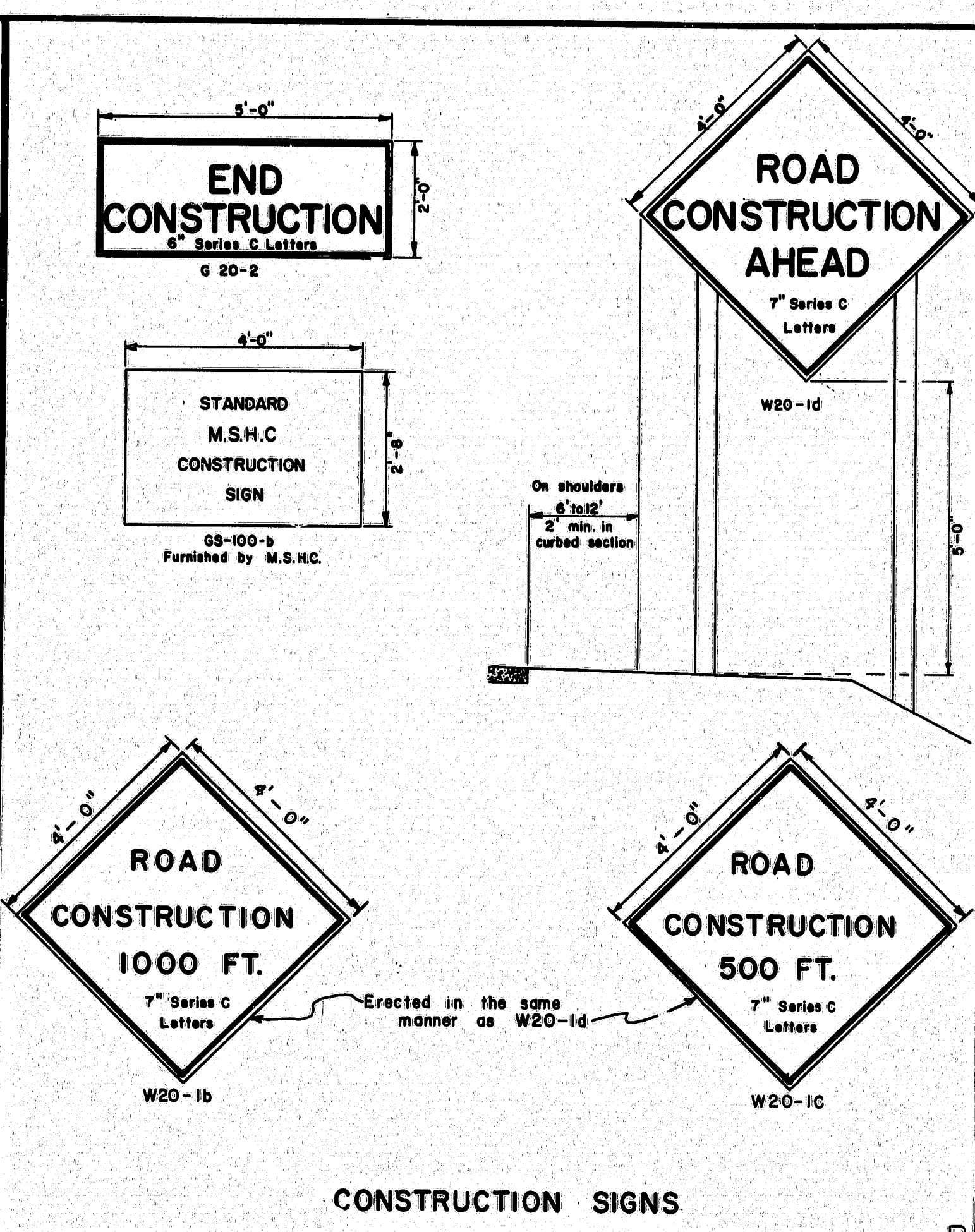
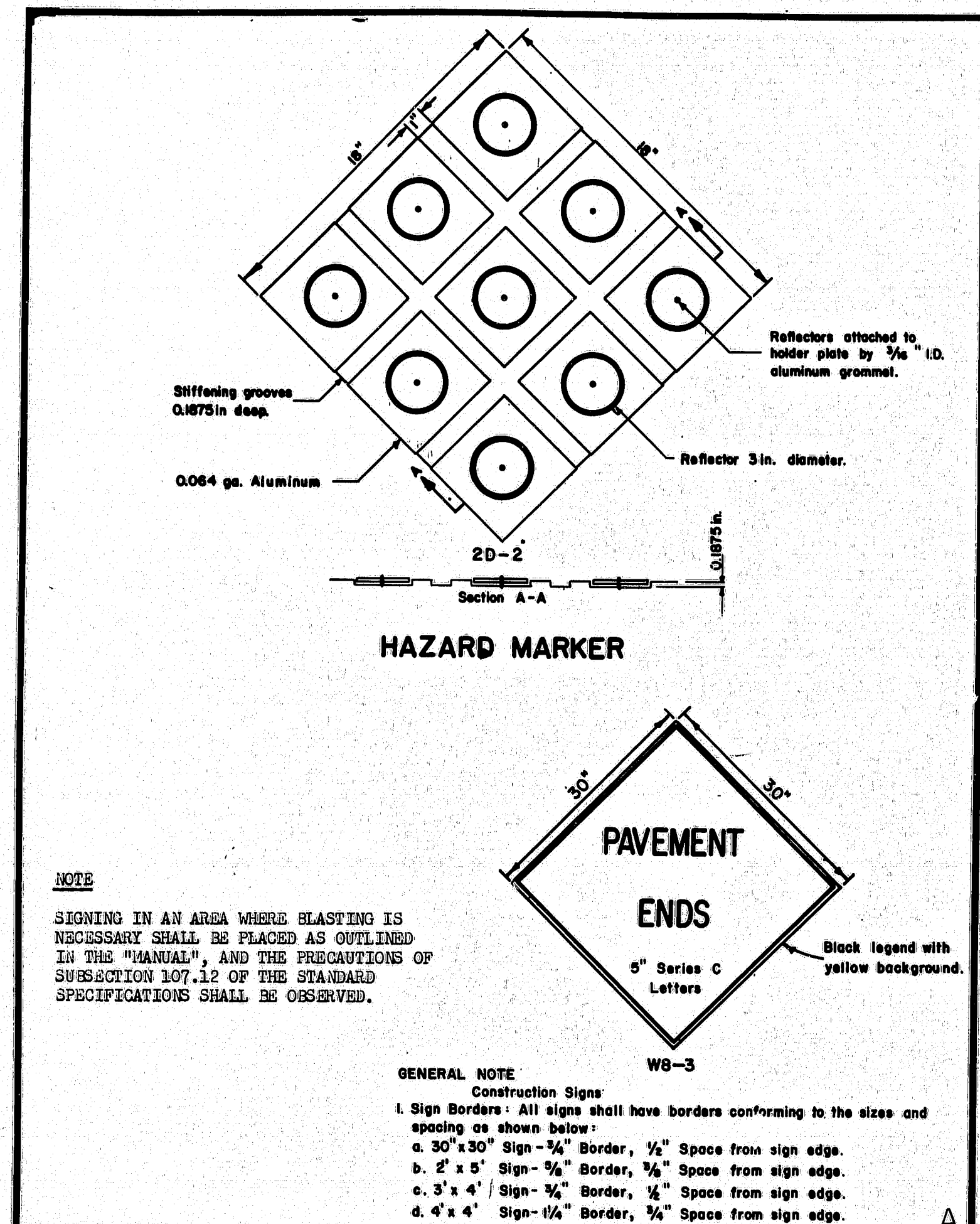
PROJECT DESIGN ENGINEER	DATE
DESIGN - DETAILED	6/78
CHECKED	6/78
REVISIONS	
FIELD CHANGES	

NOTE:
 Eradicate centerlines and edgelines in taper area and work area as directed by the Engineer. Payment will be made under Item 645.69, Pavement Markings Removed.
 Barrels or cones may be used in lieu of barricades, except in the tapers.

STATE OF MAINE
 DEPARTMENT OF TRANSPORTATION
I-95 NORTHBOUND
 OVER
 SOUADABSCOOK STREAM BRIDGES
 AND
 EMERSON MILL ROAD & B&A R.R.
 IN THE TOWN OF
 HAMPDEN
 PENOBSCOT COUNTY
 CONSTRUCTION SIGNING
 SHEET 6 OF 8 AUGUSTA, MAINE JUNE 1978

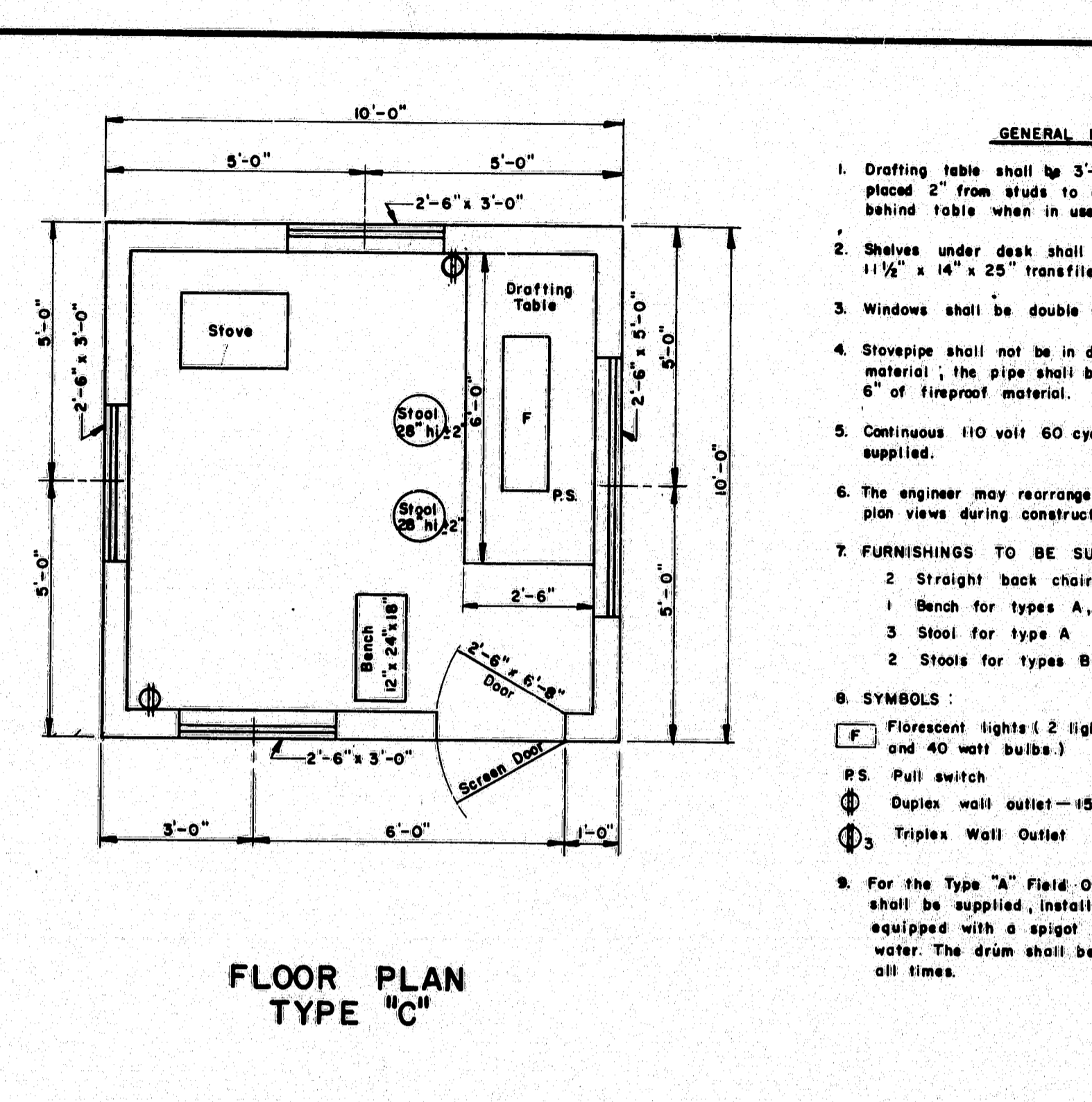
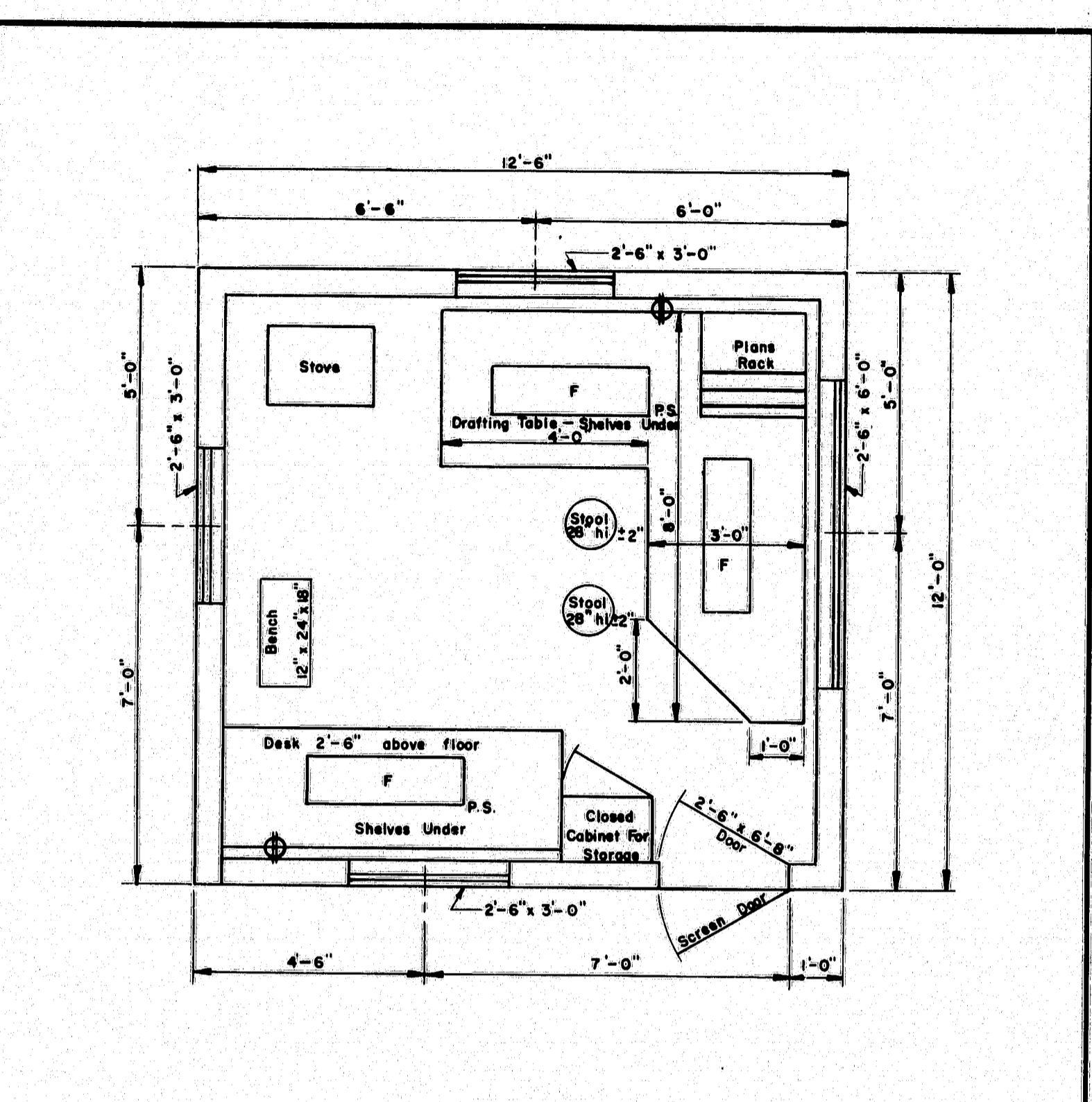
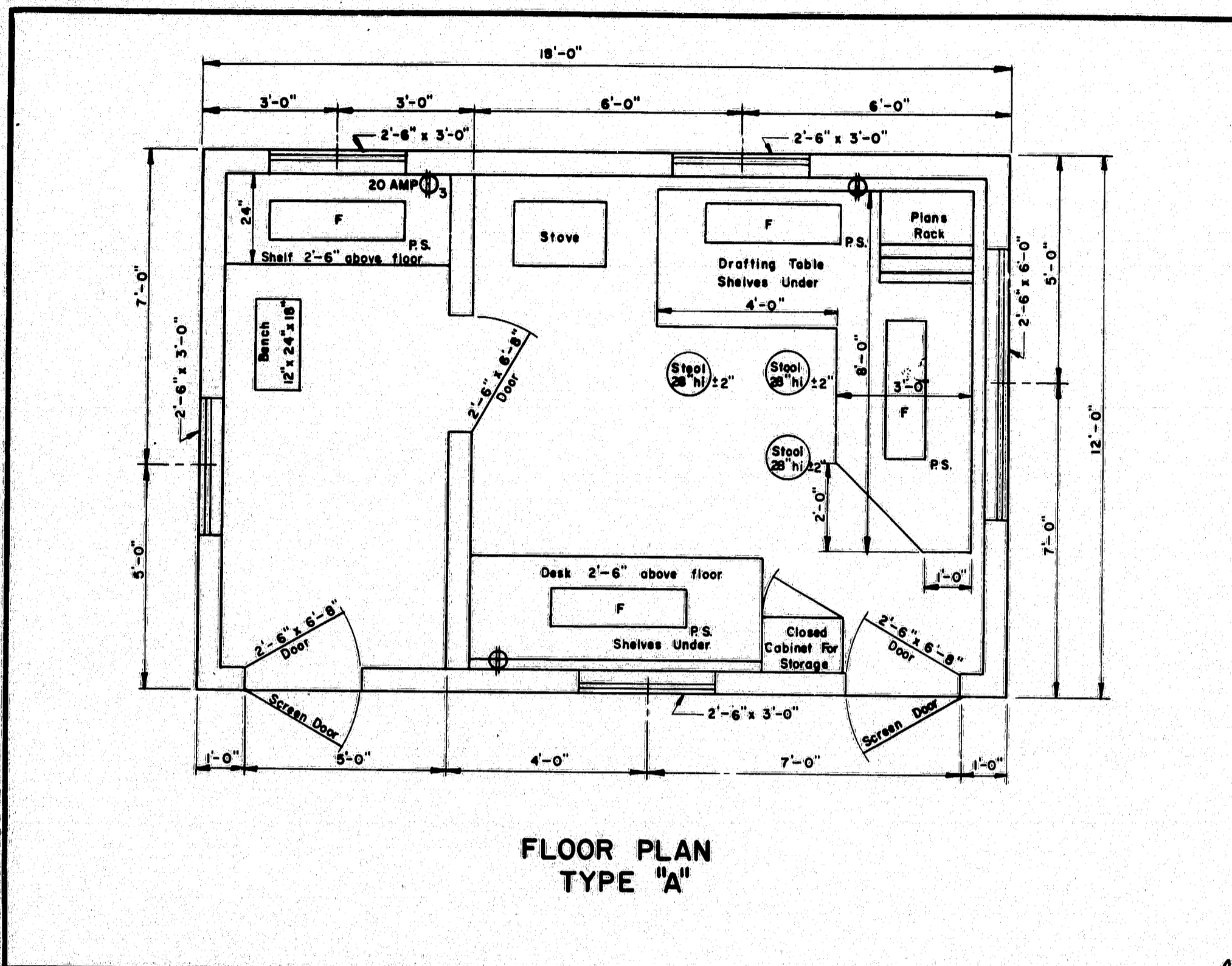
As-Built: 9/28/79 JJI

106-163

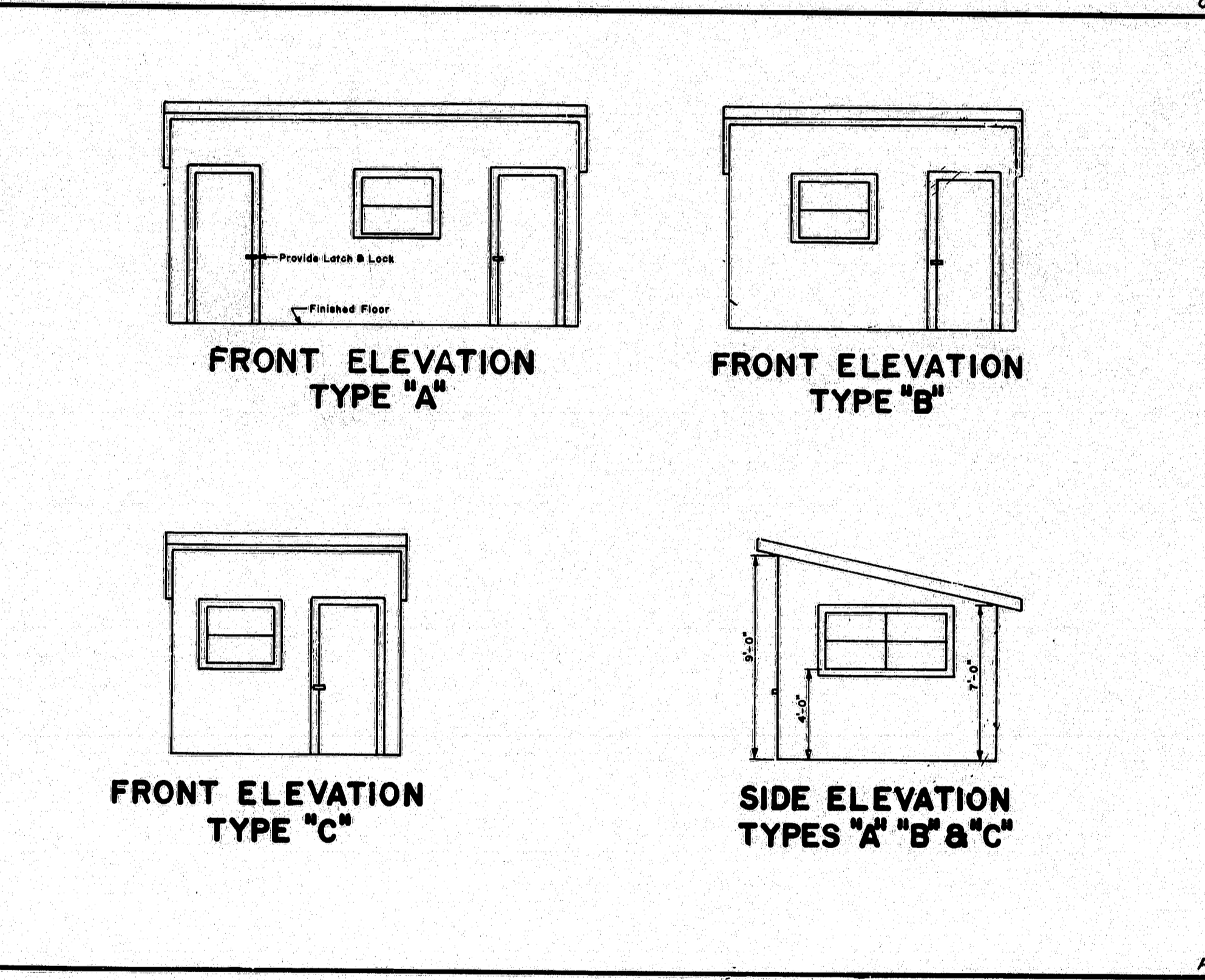
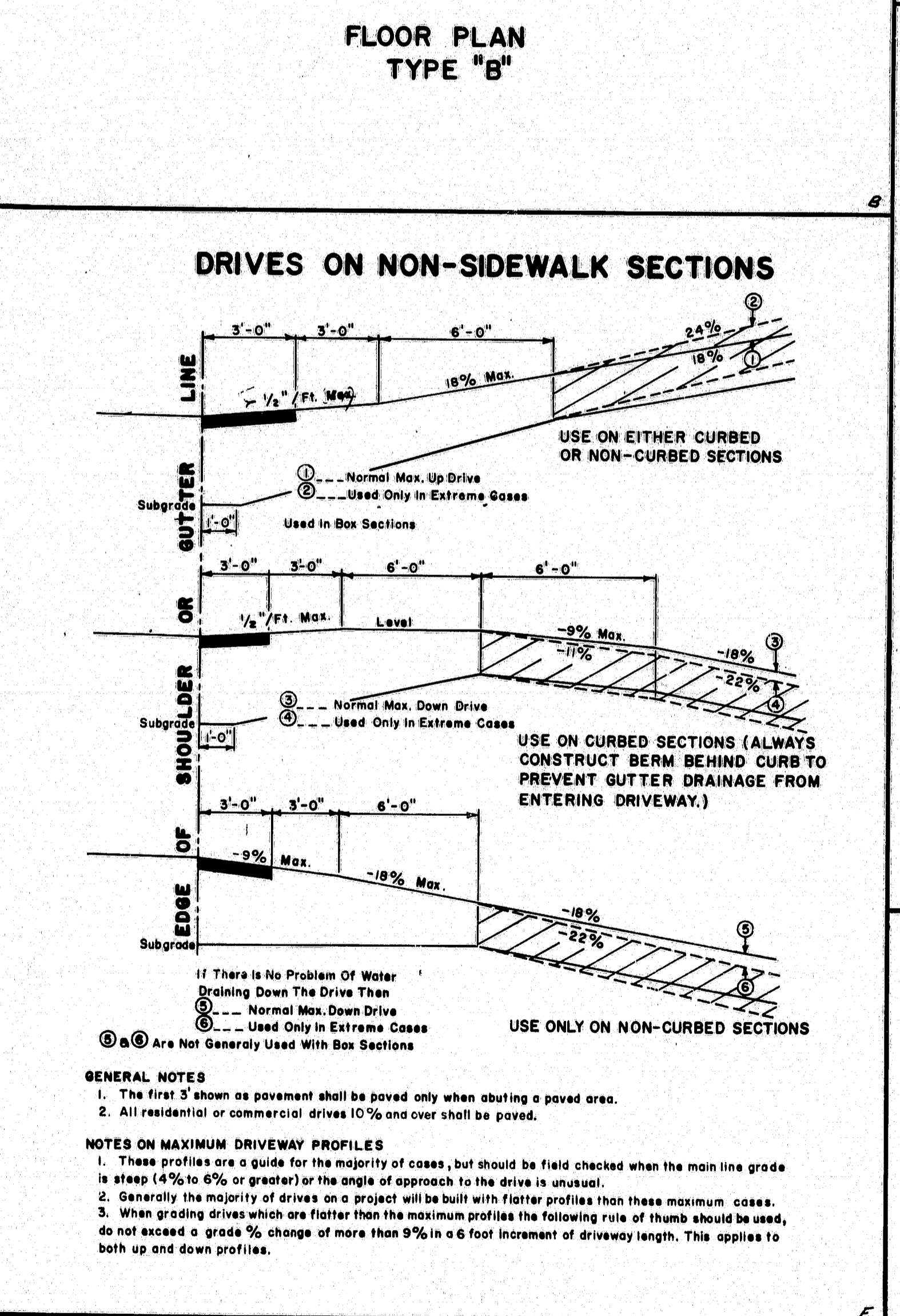
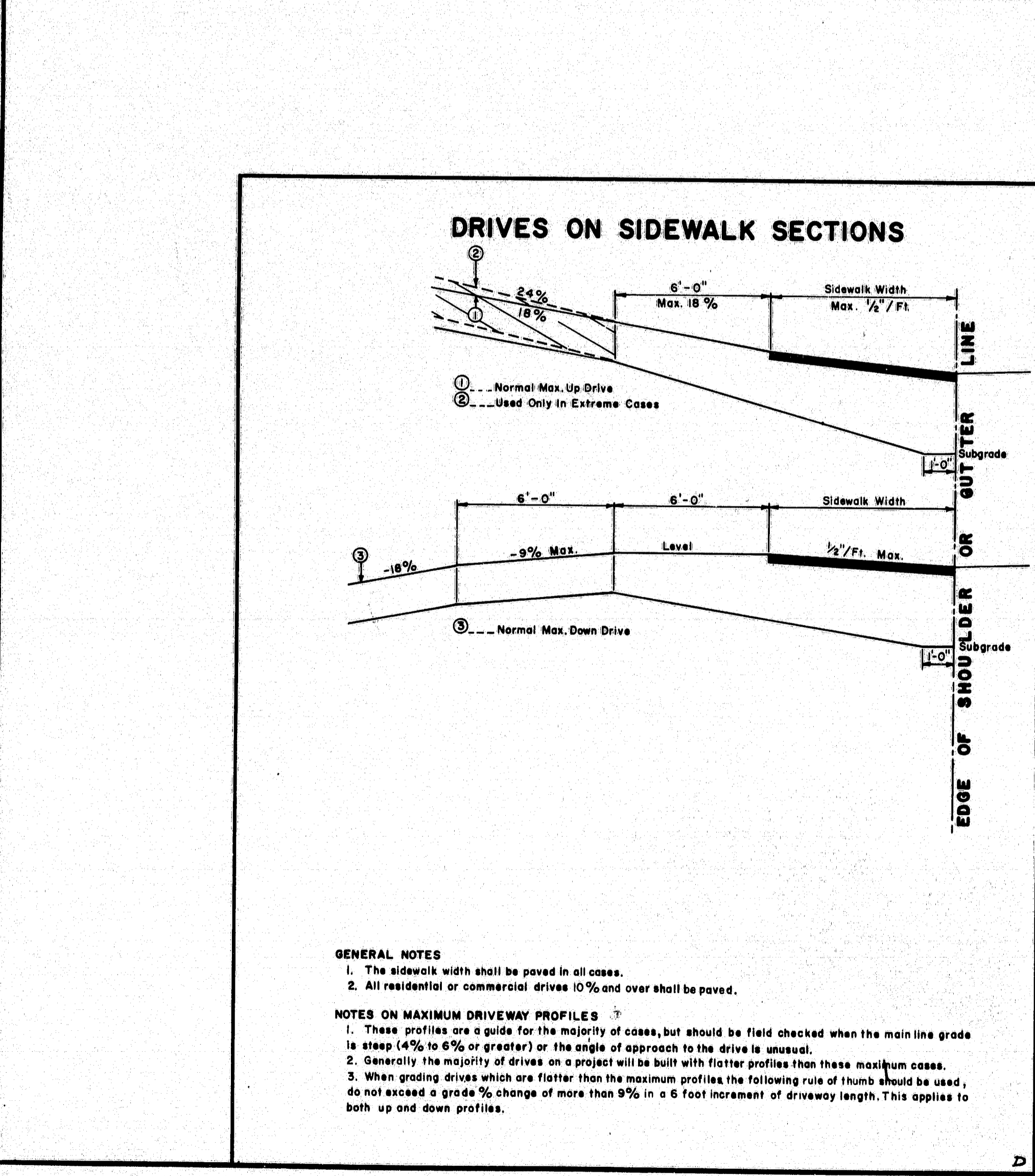


I-95 N.B. over Soudabascook Stream Bridges and Embankment 16A D.P.R.

F.H.W.A. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	701-93-779 B	8	8



- GENERAL NOTES**
- Drafting table shall be 3'-4" high at front edge and placed 2" from studs to allow prints to hang down behind table when in use.
 - Shelves under desk shall be constructed to receive 1 1/2" x 14" x 25" transfiles.
 - Windows shall be double hung.
 - Stovepipe shall not be in direct contact with combustible material; the pipe shall be surrounded with at least 6" of fireproof material.
 - Continuous 110 volt 60 cycle electric service shall be supplied.
 - The engineer may rearrange the items shown on the plan views during construction of the field office.
 - FURNISHINGS TO BE SUPPLIED:**
 - 2 Straight back chairs for types A and B
 - 1 Bench for types A, B & C
 - 3 Stool for type A
 - 2 Stools for types B & C
 - SYMBOLS:**
 - F Fluorescent lights (2 light, rapid start 48" strips and 40 watt bulbs.)
 - P.S. Pull switch
 - ⊕ Duplex wall outlet - 15 amp unless otherwise noted.
 - ⊕ Triplex Wall Outlet
 - For the Type "A" Field Office one clean 55 gal. drum shall be supplied, installed on a suitable rack and equipped with a spigot suitable for drawing off water. The drum shall be furnished with water at all times.



REVISIONS	
PLATE	D'E
	3-16-73

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
AUGUSTA, MAINE

STANDARD DETAILS

DRIVEWAY DETAILS
FIELD OFFICES
TESTING LABORATORY

AUG. 1969

I-95 N.B. over Squadabscok Stream Bridges and E/166-1/65 E.A.R.R.