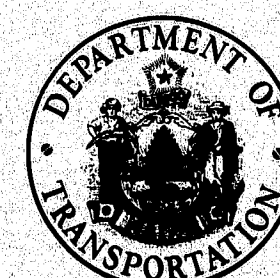


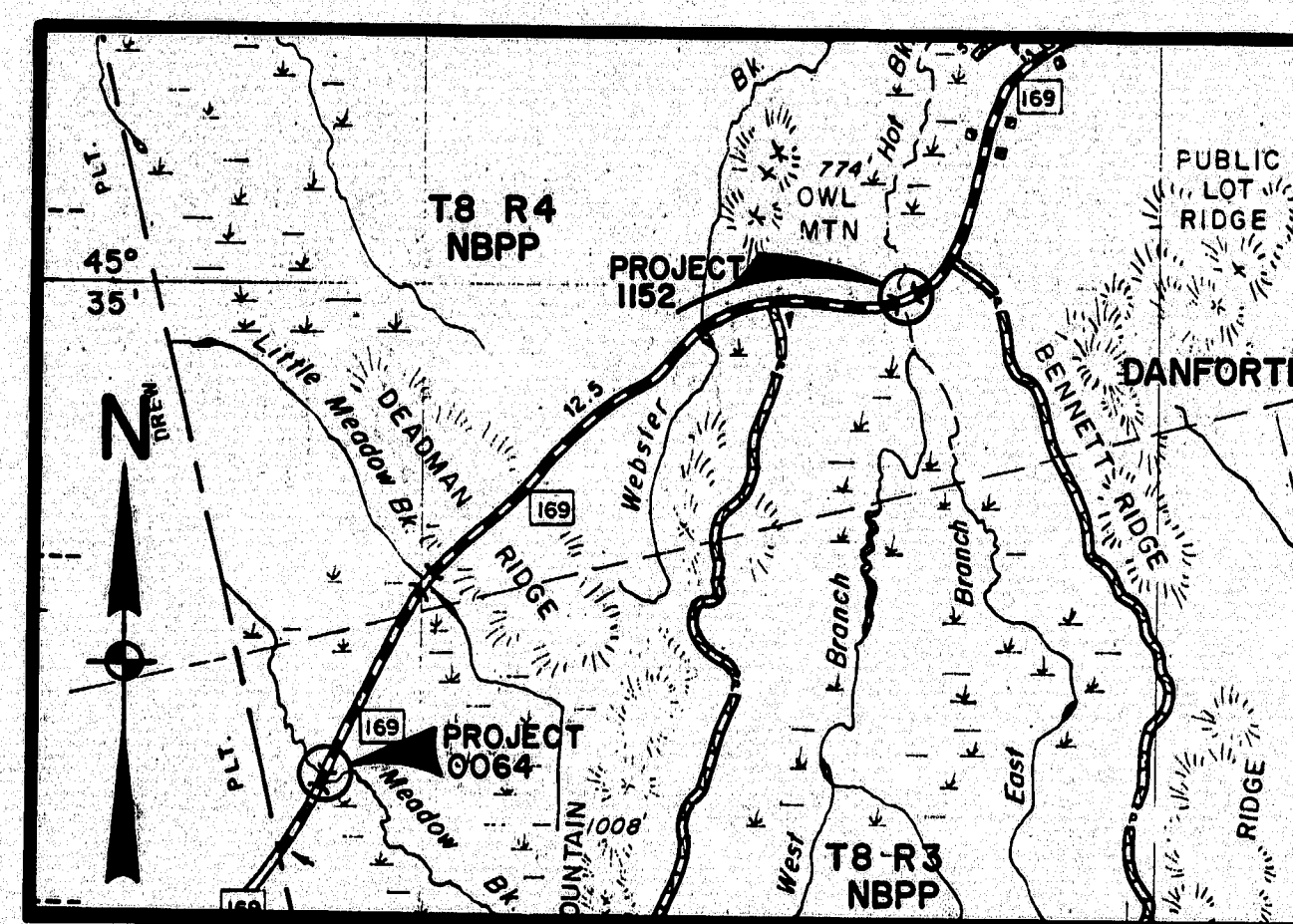
F.H.W.A. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	1152 & 0064	1	18

STATE OF MAINE DEPARTMENT OF TRANSPORTATION



BUREAU OF HIGHWAYS HOT BROOK BRIDGE BETWEEN THE TOWNS OF DANFORTH & T8-R4 AND MEADOW BROOK BRIDGE IN THE TOWNSHIP OF T8-R3 WASHINGTON COUNTY

PROJECT NO. (1152)
0064



LOCATION MAP
SCALE OF MILES
0 1 2 3

TRAFFIC DATA	PROJECT NO.
A.D.T. 1977	1152 0064
A.D.T. 1997	165 130
D.H.V.	25 17
T. (%) (A.A.T.)	10
D. (%)	
V.	
P.S.D. (%)	
18 KIPS	P2.0 6

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
CURBING - EXISTING	PROPOSED UTILITY POLE - PERMANENT
CURBING - PROPOSED	TREES
TRAVELLED WAY - EXISTING	WOODS

SPECIFICATIONS

DESIGN --- AASHTO Standard Specifications for Highway Bridges 1973 with interim Specifications 1974 thru 1977.
CONTRACT --- State of Maine, State Highway Commission Standard Specifications Highways and Bridges, Revision of June 1968.

DESIGN LOADING

LIVE LOADING --- HS20-44

HYDROLOGIC DATA

	PROJECT NO. HOT BROOK (1152)	MEADOW BROOK (0064)
DRAINAGE AREA	12.8 sq.mi.	4.72 sq.mi.
DESIGN DISCHARGE (Q50)	1100 cfs	375 cfs
CHECK DISCHARGE (Q100)	1300 cfs	450 cfs
HEADWATER ELEVATION AT (Q50)	99.5	95.1
HEADWATER ELEVATION AT (Q100)	100.7	95.8
DISCHARGE VELOCITY (Q50)	12.3	9 fps
DISCHARGE VELOCITY (Q100)	12.8	10 fps

NOTE:

All Work Contemplated Under This Contract Shall be Governed by and in Conformity With the Standard Specifications (Revision of June 1968) and Supplements Thereto, Except as Modified on the Plans and in the Special Provisions.

A hydrologic report of the bridge site is available for the Contractor's reference at the Bridge Design Office in Augusta. The hydrologic report is based on the interpretation by the Department of information obtained for the subject site and no assurance is given that the information or the conclusions of the report will be representative of actual conditions at the time of construction.

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MEADOW BROOK (0064)

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HOT BROOK (1152)

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STANDARD DETAILS ⑧ FIELD OFFICE --- 18

COMPLETED 1979

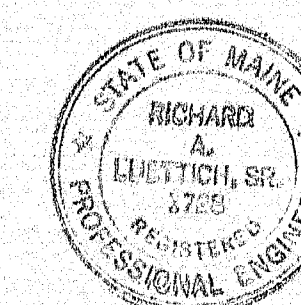
APPROVED:

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
COMMISSIONER
CHIEF ENGINEER AND BUREAU DIRECTOR

DATE

5-25-78

5-25-78



REVISED AS BUILT
by R. AVERILL APR '80

163-175

ESTIMATED QUANTITIES

ESTIMATED QUANTITIES

REVISED AS BUILT
by R AVERILL 4-15-80

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

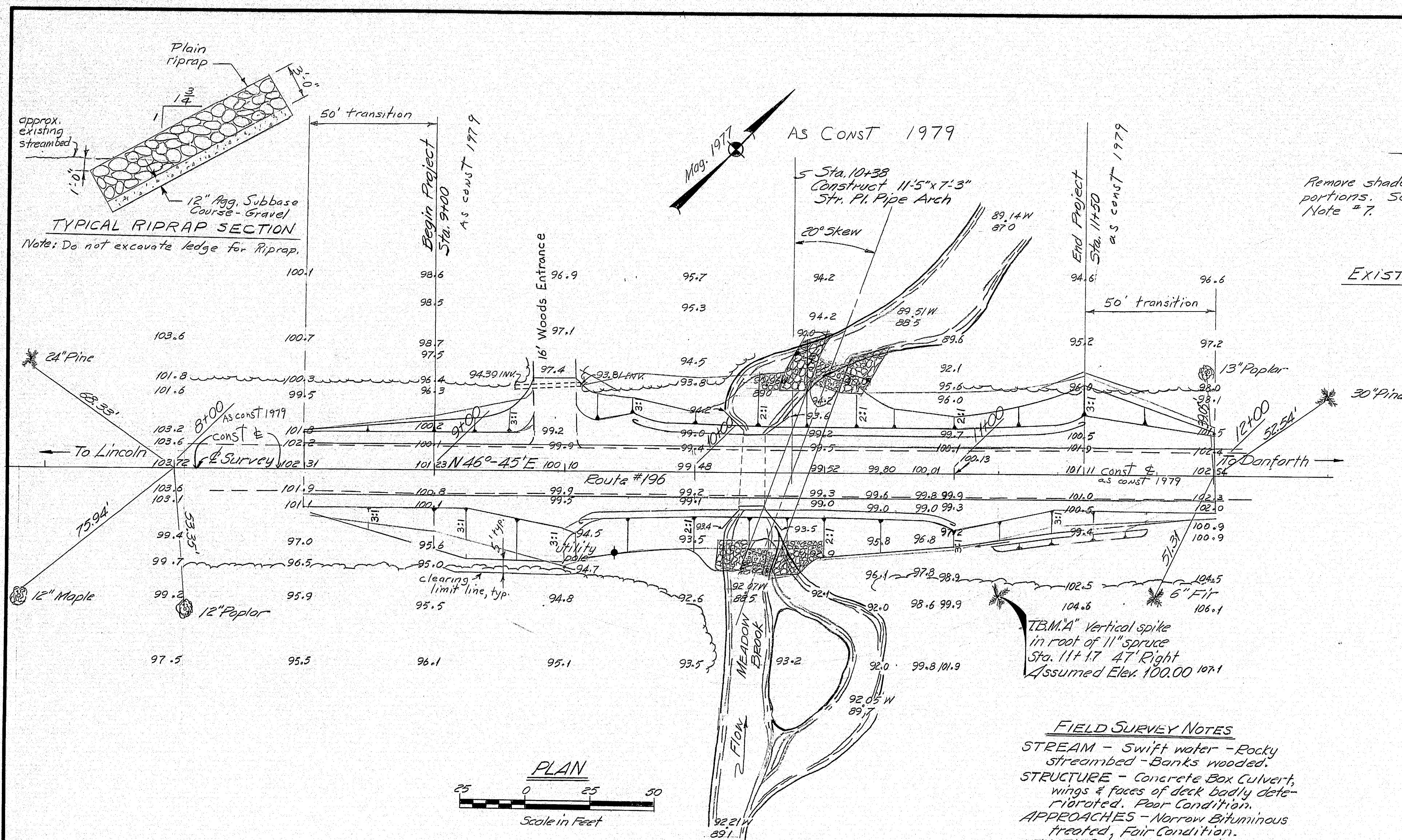
MEADOW BROOK BRIDGE
AND
HOT BROOK BRIDGE
WASHINGTON COUNTY

ESTIMATED QUANTITIES

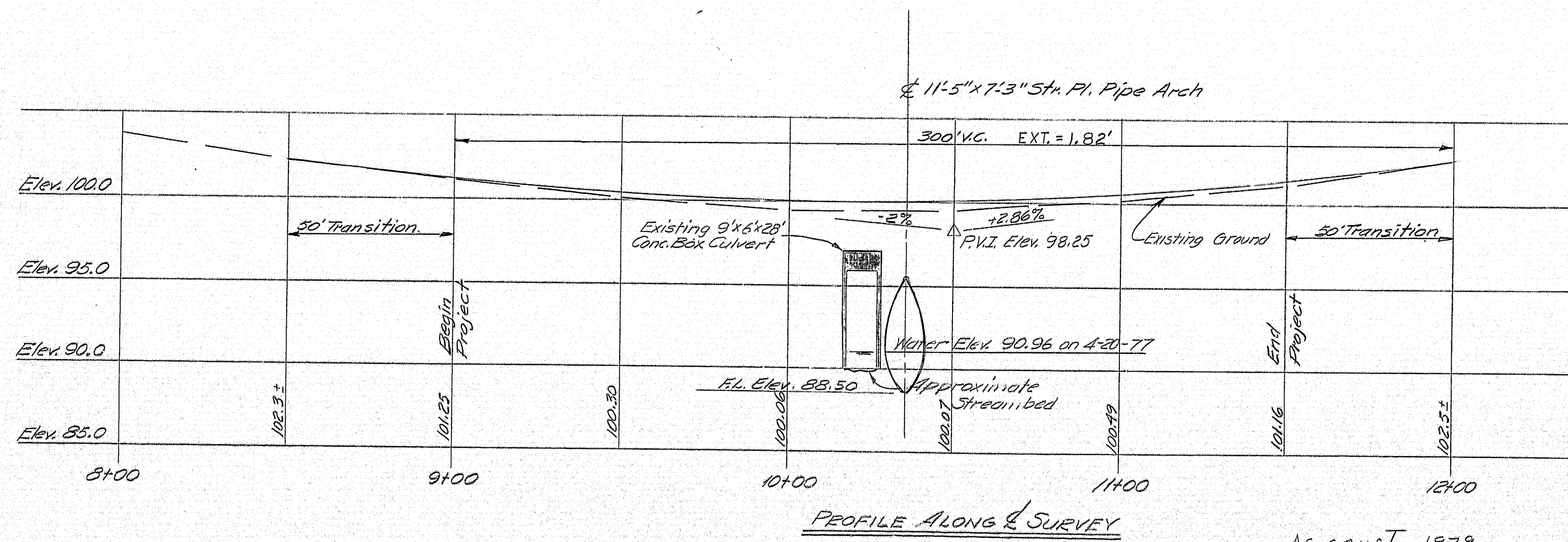
SHEET 2 OF 18 AUGUSTA, MAINE May, 1978

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F.W.A. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	0064	3	18



- Construction Notes:**
- For construction limits see Right-of-way plan.
 - All utility facilities shall be adjusted by the respective utilities unless otherwise noted.
 - The clearing limits as shown on the plans are approximate. The exact limits shall be established in the field by the Engineer. Payment for clearing shall be considered incidental to the contract items.
 - Removal of existing concrete in the wings and walls within the excavation limits of the pipe arch shall be paid for under Item 206.07, Structural Rock Excavation - Drainage & Minor Structures.
 - Provide 3'-0" minimum cover over the pipe arch during construction before any traffic or construction equipment is allowed over the structure.
 - The pipe arch may be assembled other than in its final position and lifted into place. Unwatering will not be a requirement; however the bedding material shall be placed uniformly and the pipe arch shall be moved back and forth longitudinally on the bedding material to shape & compact it prior to releasing the pipe arch in its final position as shown on the plans. The bedding material and pipe arch shall not be placed at times of high water. The Contractor shall obtain approval of the Engineer prior to placing the bedding material and the pipe arch.
 - Removal of the top slab and all material directly over the top slab within the limits shown shall be paid for under Item 202.10, Removal of Existing Superstructure (property of Contractor).
 - Compaction requirements for the 12" Aggregate Subbase Course - Gravel under the riprap are waived.



REVISED AS BUILT
by RAVERILL 4-15-80

BRIDGE CODE NUMBER 0064

STATE OF MAINE DEPARTMENT OF TRANSPORTATION
MEADOW BROOK BRIDGE IN THE TOWNSHIP OF T8-R3 WASHINGTON COUNTY GENERAL PLAN & PROFILE
SHEET 3 OF 18 AUGUSTA, MAINE MAY 1977

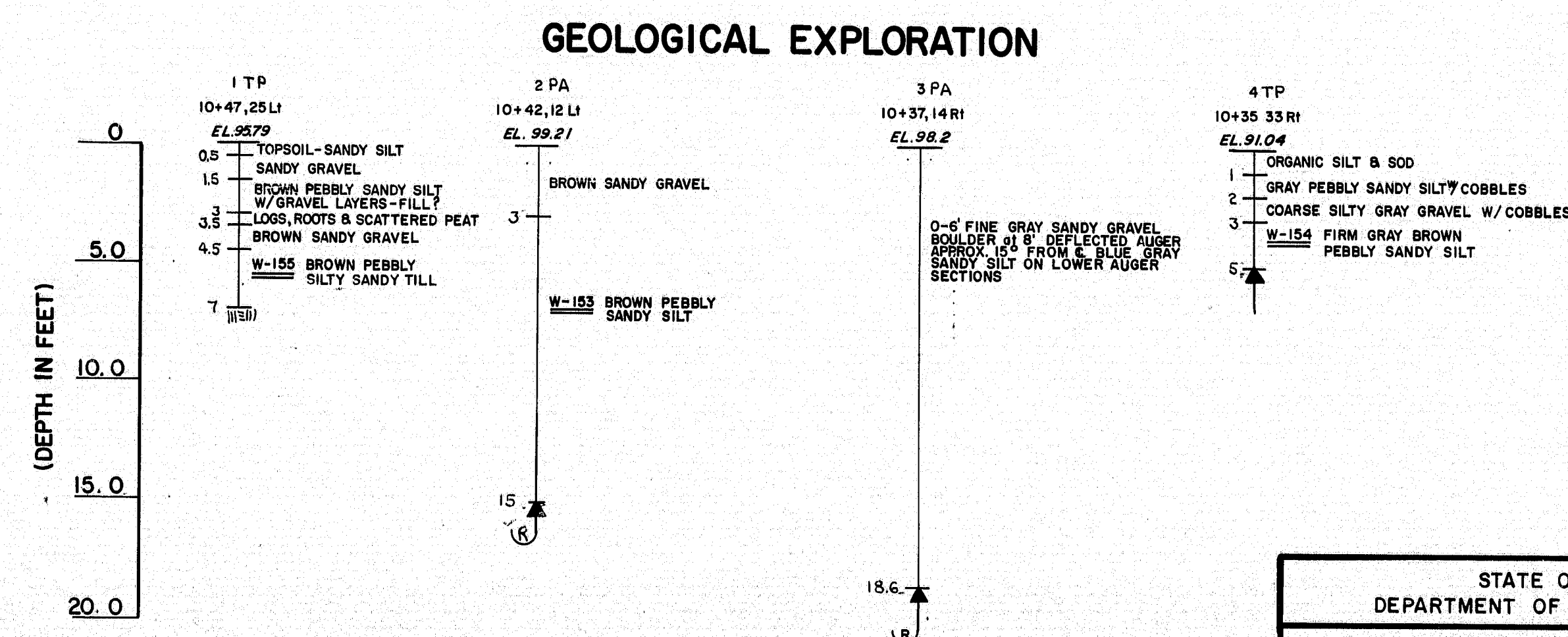
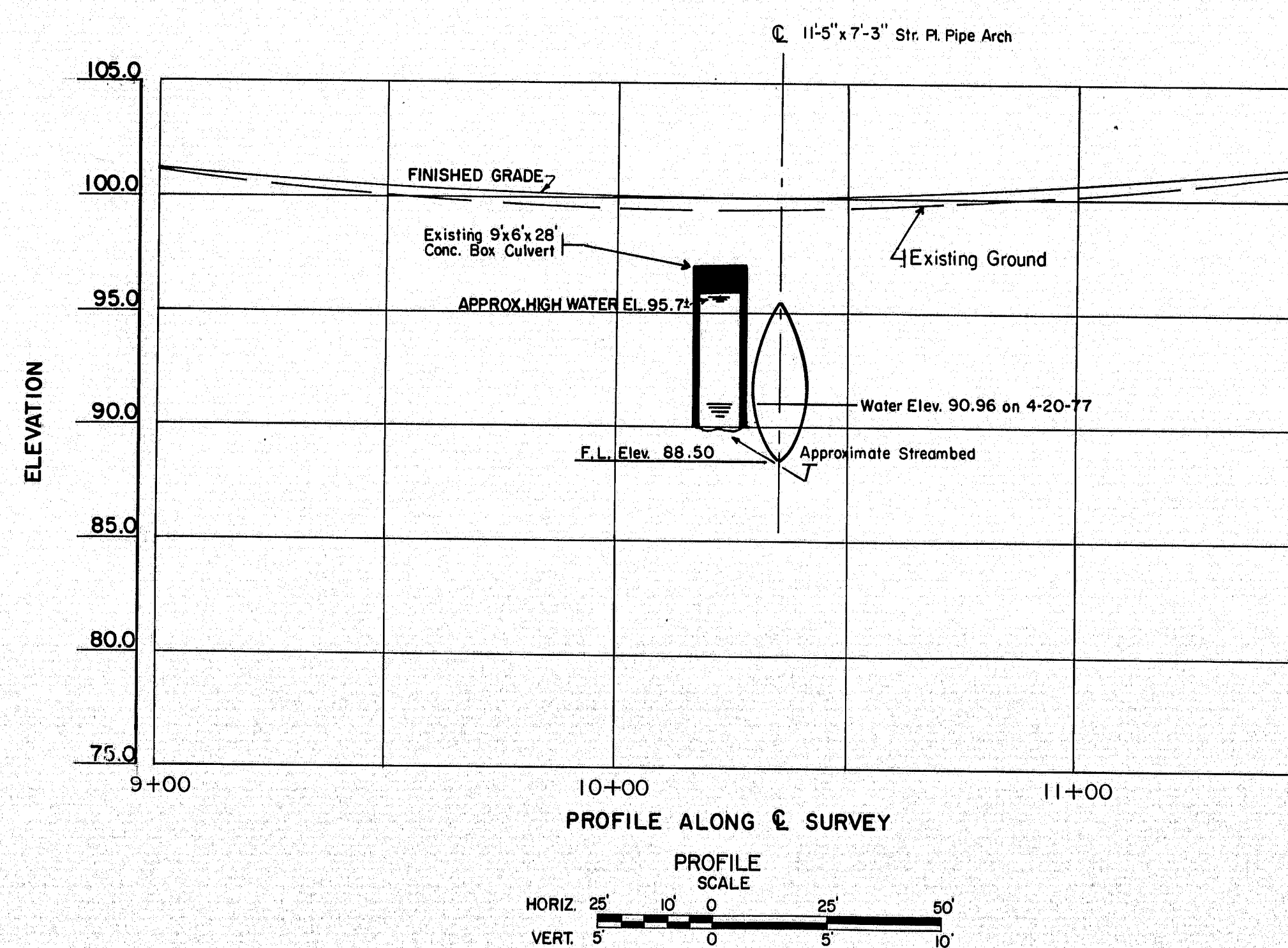
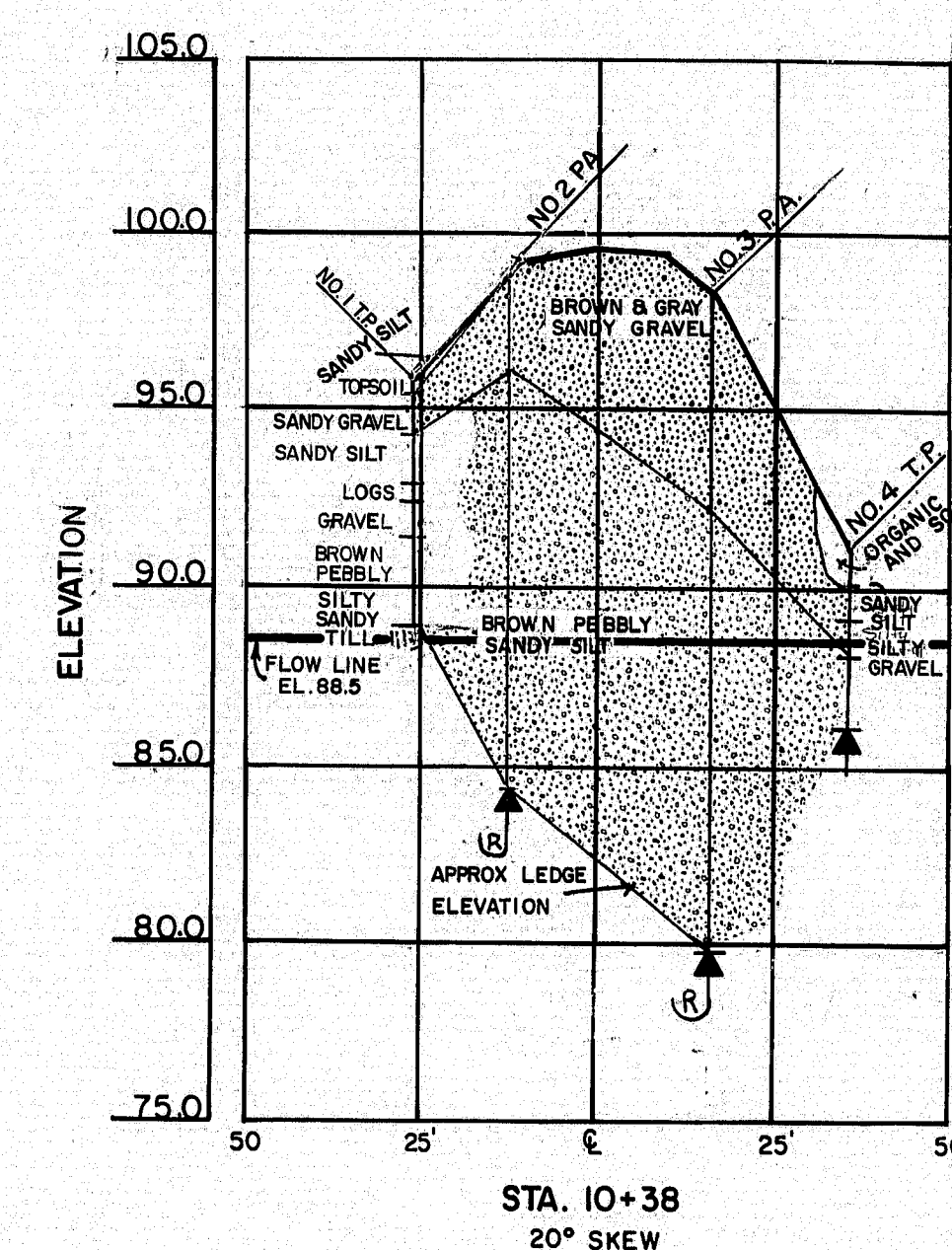
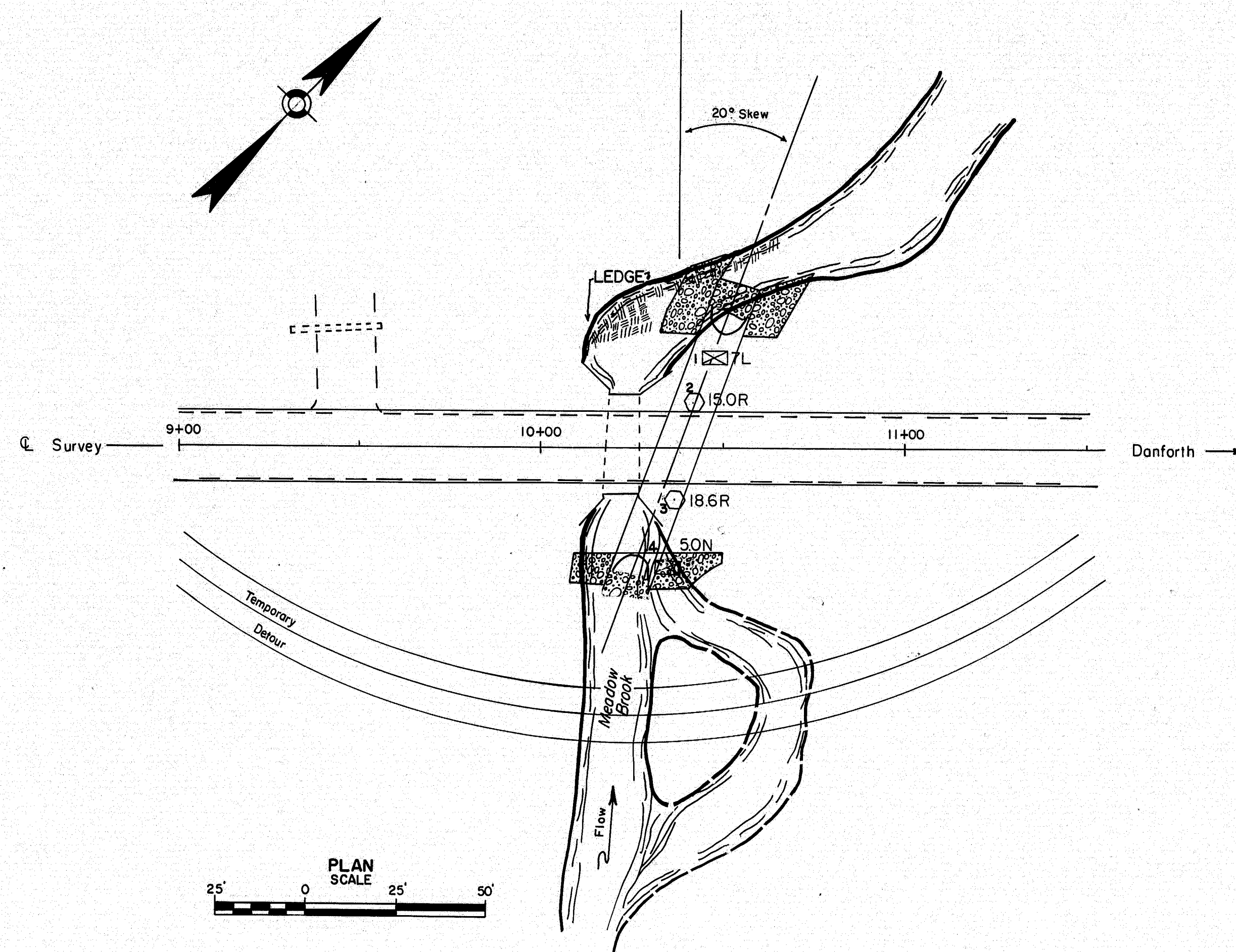
REFERENCE: Maine Department
of Transportation Field
Survey Notebook #5085

163-177

Survey Checked by M.A.S. Aug. 1977
Survey Plotted by G.R.W. May 1977

PROJECT DESIGN ENGINEER	CHECKED	DATE
DESIGN - DETAILED	DEW	11-77
CHECKED	DEW	11-77
REVISIONS	TRD	
FIELD CHANGES		

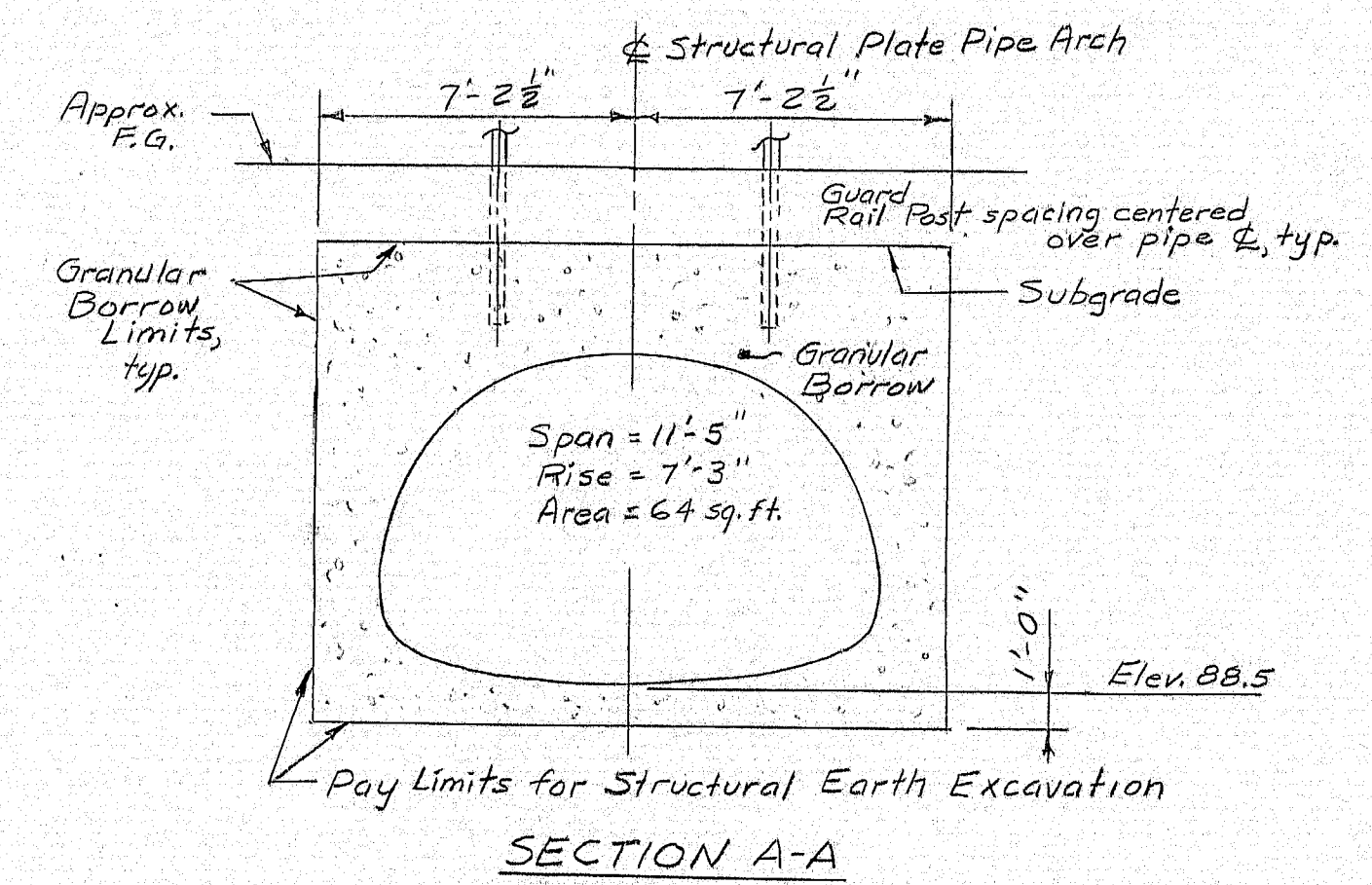
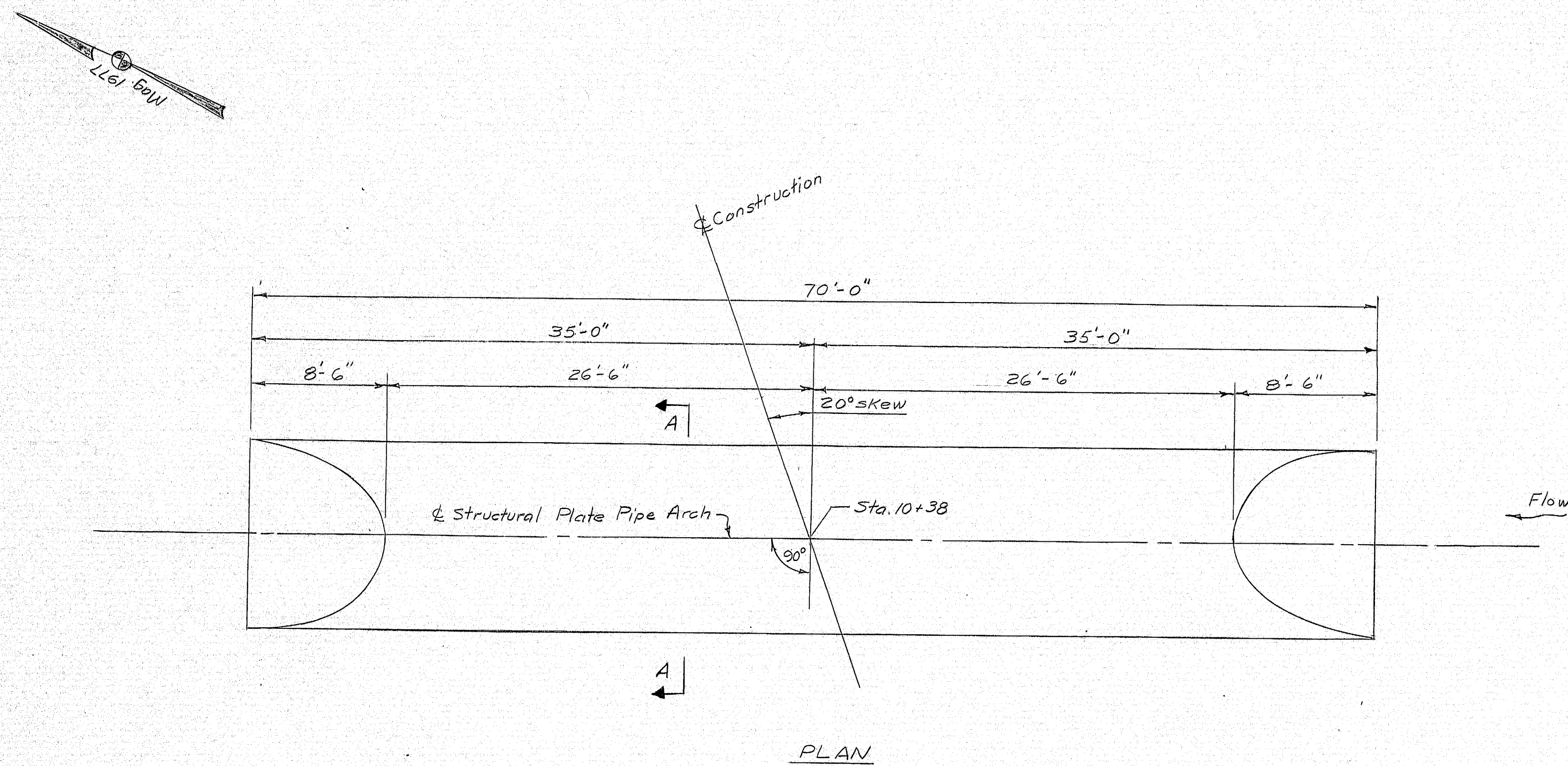
F.H.A. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	0064	4	18



STATE OF MAINE DEPARTMENT OF TRANSPORTATION
MEADOW BROOK BRIDGE IN THE TOWNSHIP OF T8-R3 WASHINGTON COUNTY FOUNDATION SURVEY
SHEET 4 OF 18 AUGUSTA, MAINE May, 1978

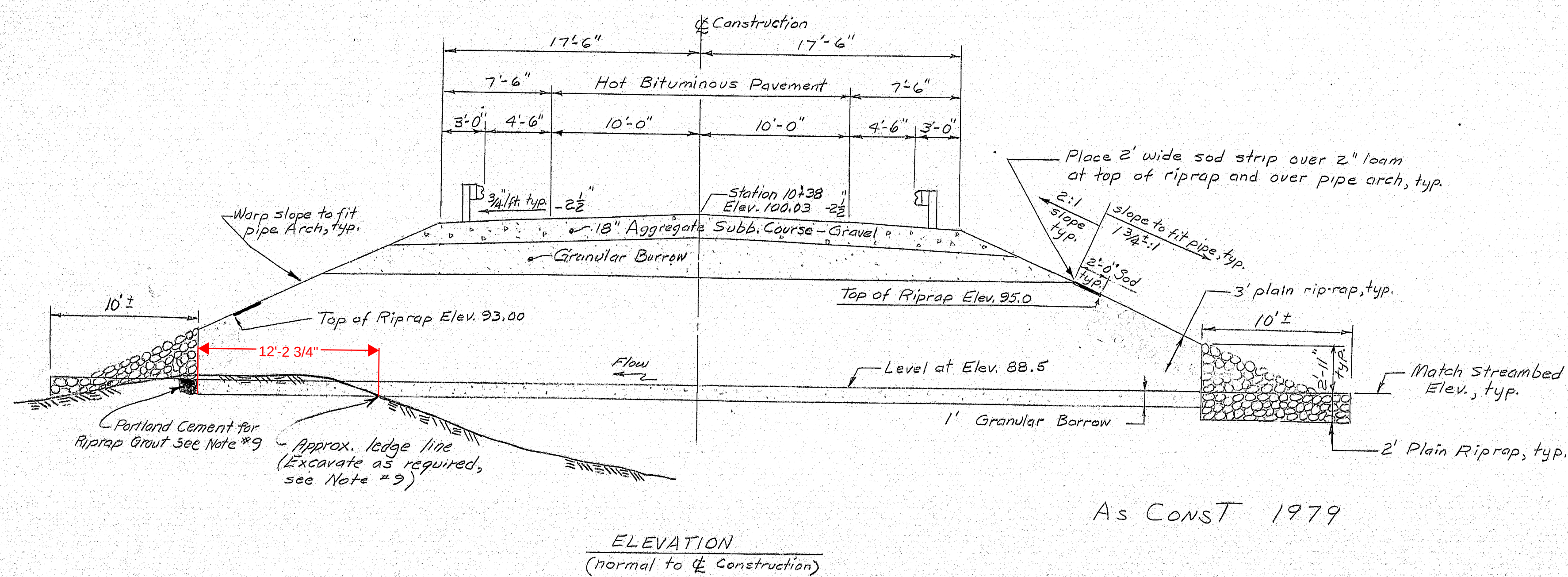
163-178

F.H.A. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	0064	5	18



NOTES:

- One 11'-5" span, 7'-3" rise Structural Plate Pipe Arch is required. The top plates shall be 0.138 inches (10 gage) thick, and the bottom and corner plates shall be 0.168 inches (8 gage) thick.
- The pipe ends shall be cut to the slope as shown on the details.
- Granular Borrow may be omitted under the pipe arch if the existing material is suitable in the opinion of the Engineer.
- Care should be taken when installing the Guard Rail Posts so as not to damage the pipe. The posts shall be located as shown on the details.
- Granular Borrow shall be placed in the new embankments to an elevation 12" above the water at the time of placement or to elevation 93.0 whichever is higher.
- Granular Borrow shall meet the requirements of Subsection 703.19. Material for Underwater Backfill.
- Riprap shall be carefully placed around the ends of the pipe arch so that no damage will occur, and in such a manner that the finished slope will match the ends of the riprap adjacent to the ends of the pipe arch. The cost for all labor, materials, and equipment necessary to place the riprap in the required manner will be included in the payment for item 610.08 Plain Riprap.
- Place a 2' wide strip of sod along the top of the riprap and over the pipe, typical at both ends of the pipe.
- Excavate ledge as required for 1' Granular Borrow. Do not excavate ledge for 2' Plain Riprap. If ledge is excavated for granular borrow at the pipe outlet, provide Portland Cement for Riprap Grout as shown and in a manner approved by the Engineer, to protect the Granular Borrow. Grouting will be paid for under Item 610.12 Portland Cement for Riprap Grout.



As Const 1979

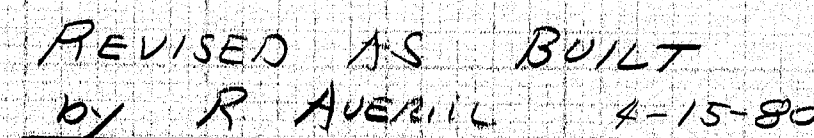
REVISED AS BUILT
 by R. AVEILL 4-15-80

PROJECT DESIGN ENGINEER	JET	DATE	11-77
DESIGN - DETAILED	DEW	DEW	11-77
CHECKED	TWD		
REVISIONS			
FIELD CHANGES			

STATE OF MAINE DEPARTMENT OF TRANSPORTATION
MEADOW BROOK BRIDGE IN THE TOWNSHIP OF T8-R3 WASHINGTON COUNTY STRUCTURAL PLATE PIPE ARCH
SHEET 5 OF 18 AUGUSTA, MAINE May, 1978

163-179

FINAL SURVEY	SUPERVISED ROTATED TELEPHONE AREAS	BY	DATE
NOTE BOOK			



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

MEADOW BROOK BRIDGE
IN THE TOWNSHIP OF
T8-R3
WASHINGTON COUNTY
CROSS SECTIONS

SHEET 6 OF 18 - AUGUSTA, MAINE. May, 1978

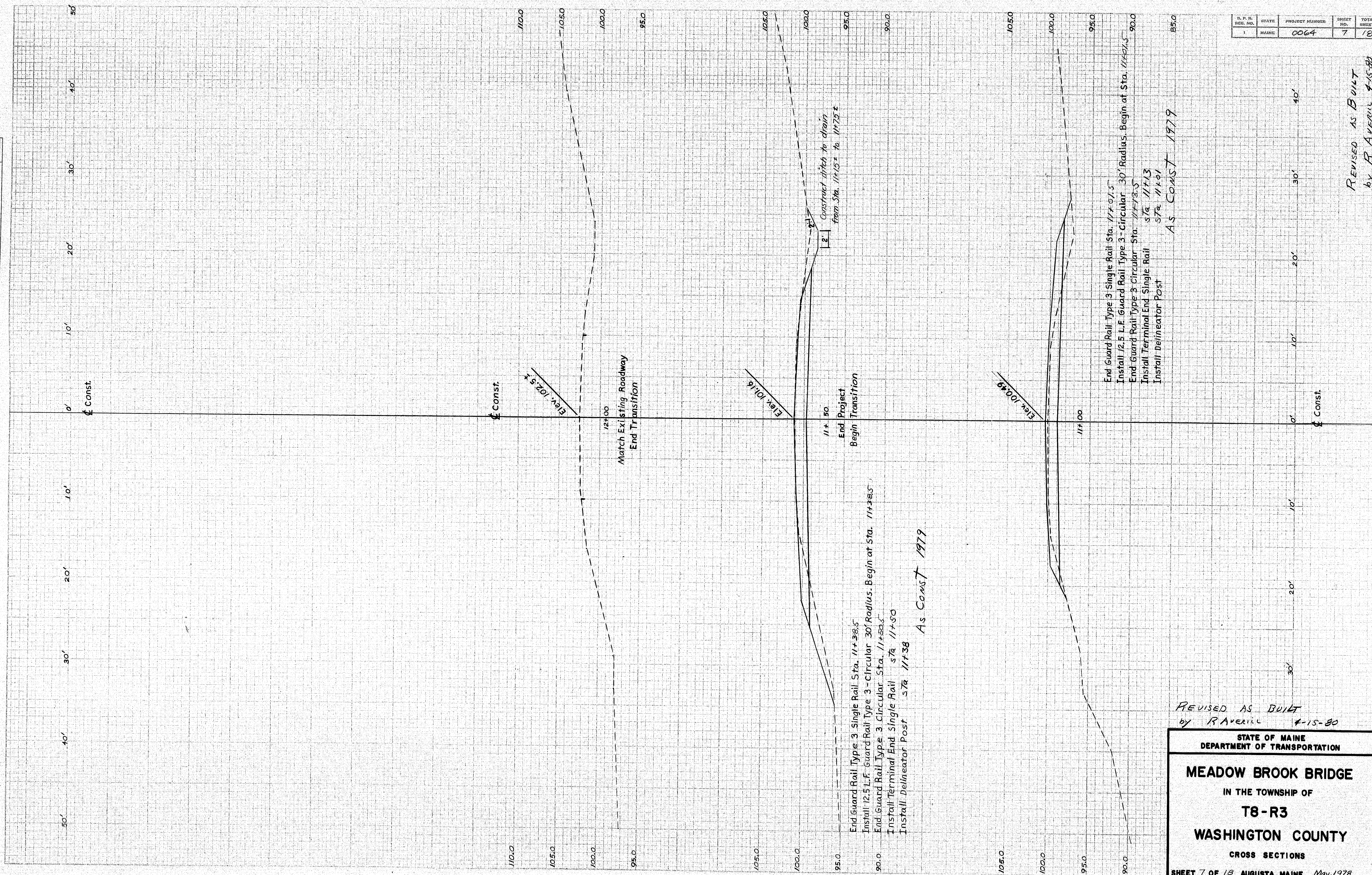
ET 6 OF 18 - AUGUSTA, MAINE.

AS CONST 1979

REVISED AS BUILT
by R AVERIL 4-15-80

ORIGINAL SURVEY	BY	DATE
NOTED	M.A.S. MAS	8/8/77
AREAS CHECKED		

FINAL SURVEY	BY	DATE
NOTED		
AREAS CHECKED		



D. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	0064	7	18

REVISED AS BUILT
by R AVERILL 4-15-80

STATE OF MAINE DEPARTMENT OF TRANSPORTATION
MEADOW BROOK BRIDGE IN THE TOWNSHIP OF T8-R3 WASHINGTON COUNTY CROSS SECTIONS
SHEET 7 OF 18 AUGUSTA, MAINE May, 1978

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by R AVERILL 4-15-80