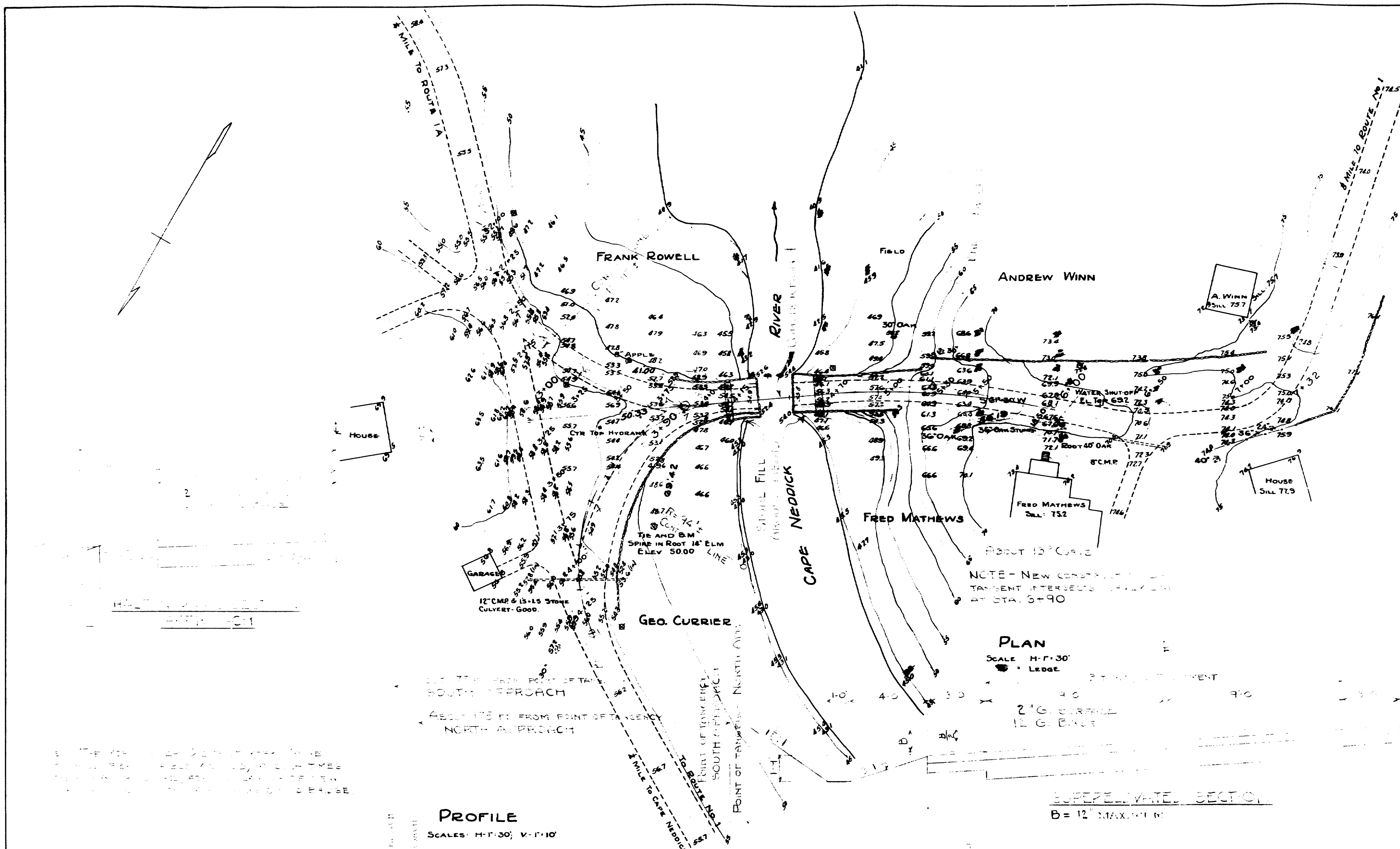


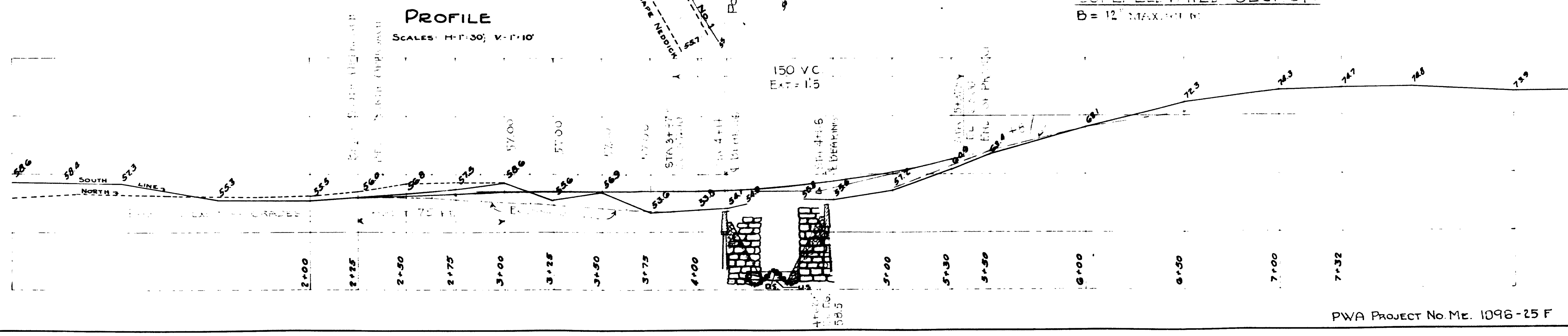
NOTES

EXISTING SUPERSTRUCTURE: 3" TRANSVERSE PLANK AND (9) LOG AND (8) 12" TIMBER STRINGERS. POOR CONDITION

EXISTING SUBSTRUCTURE: ABUTMENTS OF LARGE FLAT FIELD STONE, ROUGHLY LAID DRY. ABUTMENT NO 1 PARTIALLY FALLEN OUT AND IN POOR CONDITION.

STREAM: TIDE WATER. EXTREME HIGH TIDE AT ELEV. 47.5. ORDINARY HIGH TIDE AT ELEV. 45.0. LOW TIDE - NATURAL FLOW OF RIVER. NATURAL FLOW OF RIVER CAUSES HIGH WATER AT ELEV. 49.0

FOUNDATION: SOUNDING NO. 1: 10' RIGHT OF 4+25, ROD PENETRATED EASILY TO ELEV. 27.1 TO LEDGE. SOUNDING NO. 2: 12' RIGHT OF 4+65, ROD PENETRATED EASILY TO 27.1 TO LEDGE.



PWA PROJECT NO. ME. 1096-25 F

SURVEY BY BLAKE PLOTTED-TRA BY TAYLOR	TOWN 16-28 BRIDGE 3592

MAINE STATE HIGHWAY COMM.
BRIDGE DIVISION

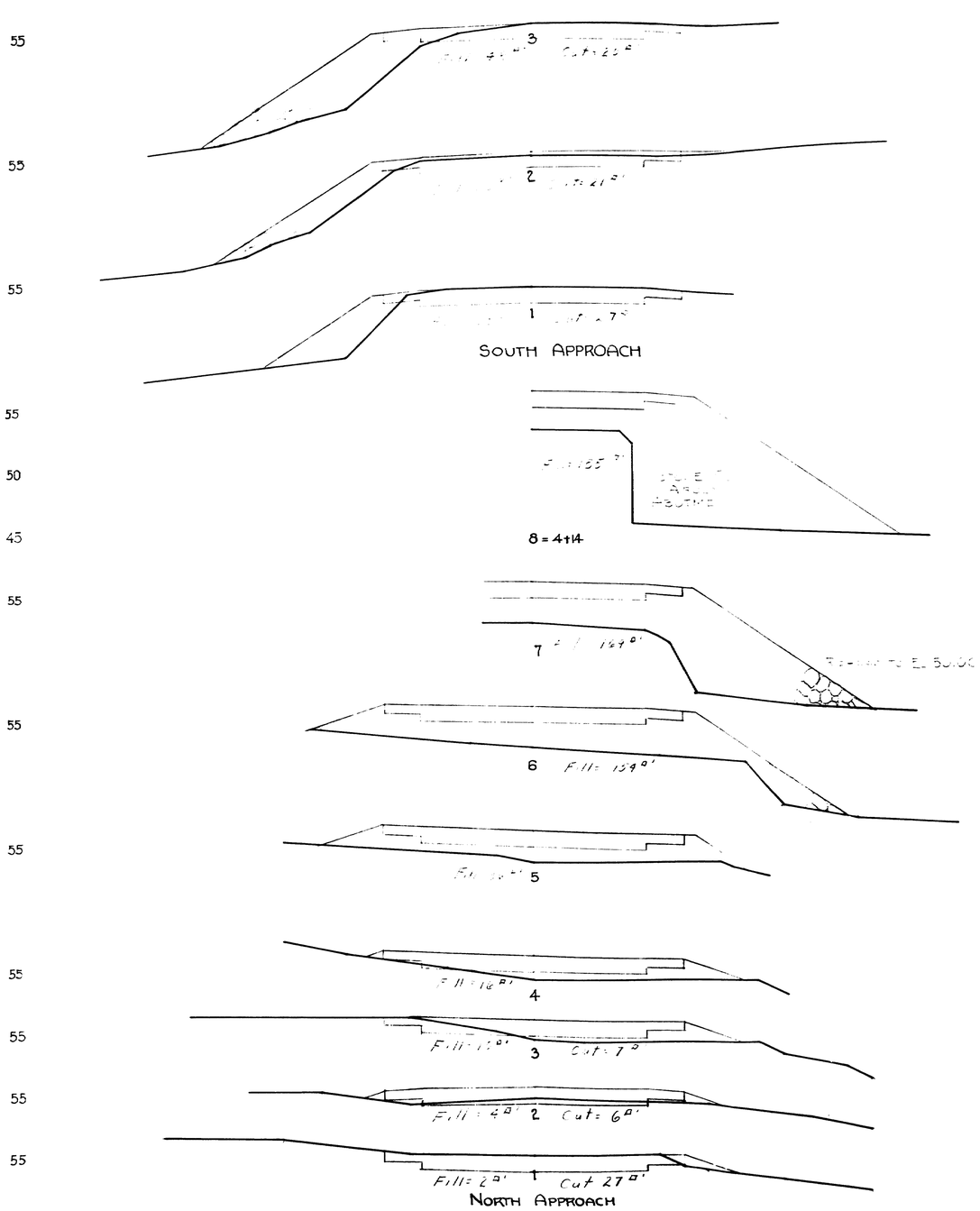
CLARK BRIDGE
OVER
CAPE NEDDICK RIVER

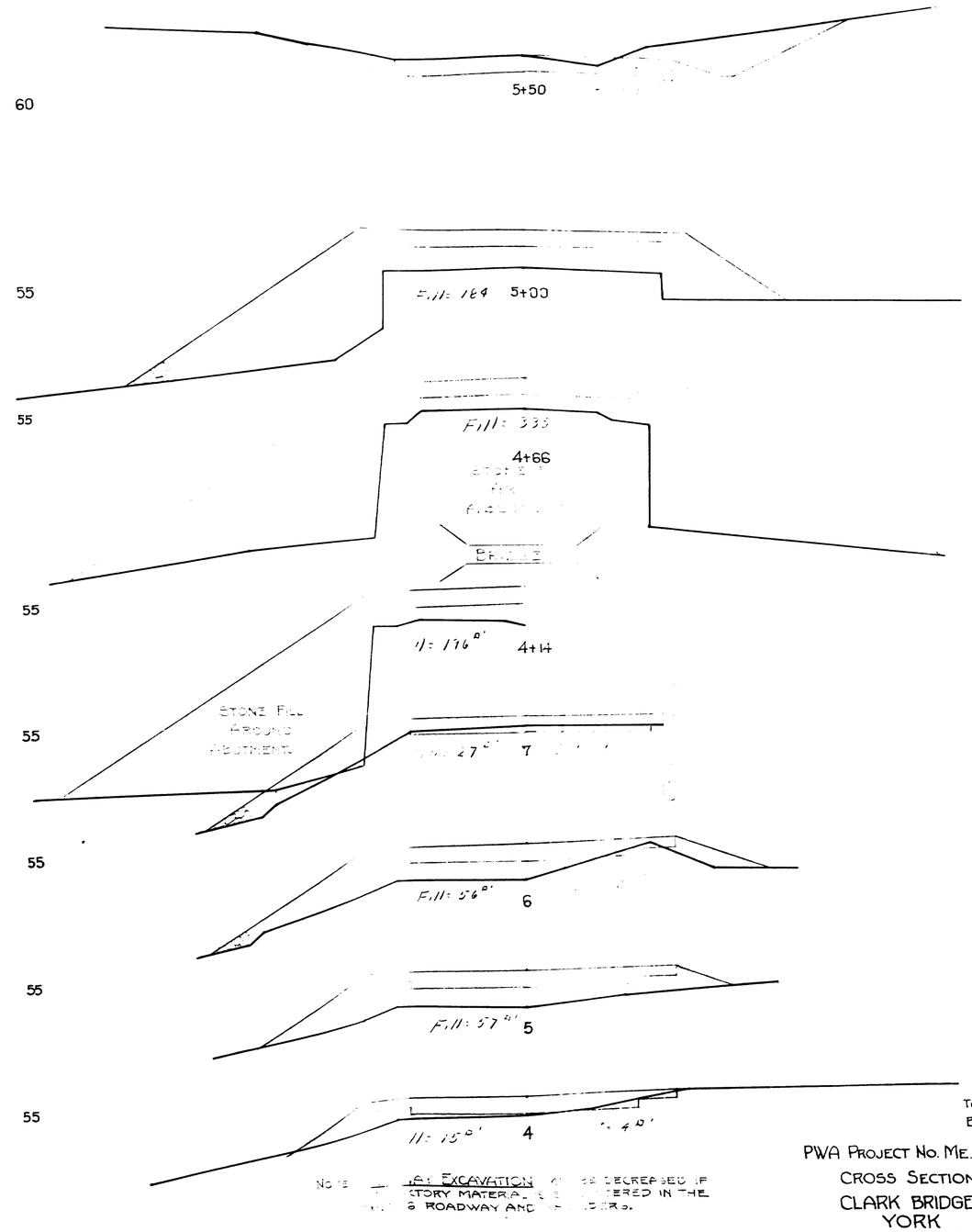
IN THE TOWN OF
YORK — YORK COUNTY

SURVEY PLAN

SHEET 1 OF 4 AUGUSTA, ME. MAY 1938

32~9





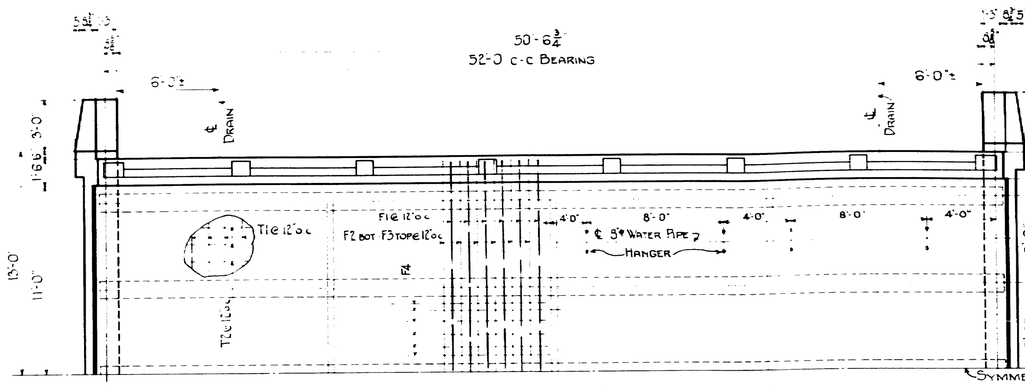
NOTE — [illegible] EXCAVATION [illegible] BE DECREASED IF [illegible] STORY MATERIAL [illegible] ENCOUNTERED IN THE [illegible] ROADWAY AND [illegible] DITCHES.

TOWN 16-28
BRIDGE 3592

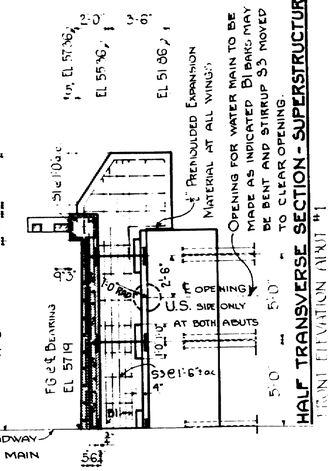
PWA PROJECT NO. ME. 1096-25F
CROSS SECTIONS
CLARK BRIDGE
YORK
SHEET 2 OF 4 AUGUSTA, ME. SEPT, 1938.

32-10

0 1 2 3 4 5 INCHES

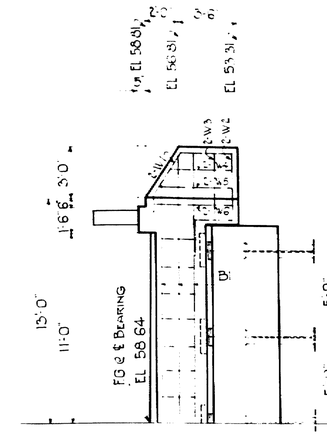


HALF PLAN (Substructure not shown)



HALF TRANSVERSE SECTION - SUPERSTRUCTURE

FRONT ELEVATION (ABUT. #1)



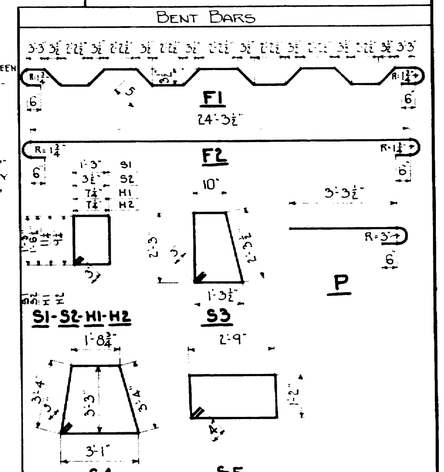
HALF REAR ELEVATION AT ABUT. #2

STEEL SCHEDULE

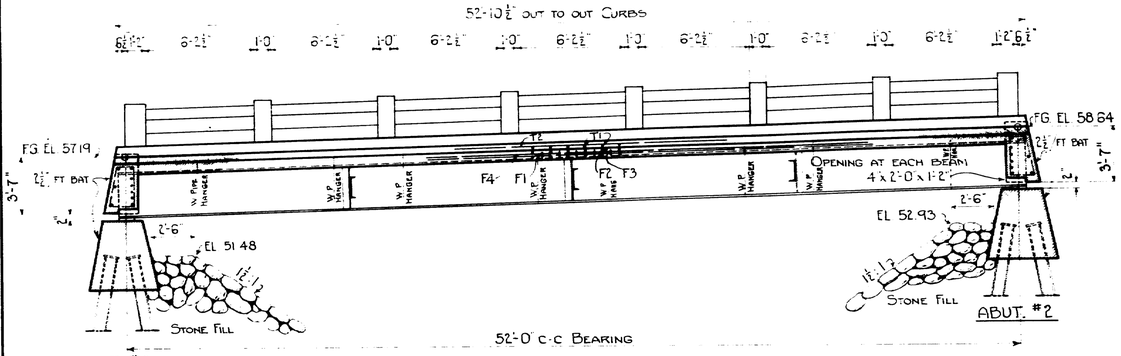
Straight Bars

Mark	Size	No	Length	Location
F3	¾"φ	53	24'-8"	Slab (Top)
F4	¾"φ	66	28'-6"	Slab (to be lapped)
C	¾"φ	12	28'-6"	Curb (to be lapped)
T1	¾"φ	54	21'-8"	Wear Surface
T2	¾"φ	44	28'-0"	" "
B1	¾"φ	18	31'-6"	Diaphragm and Wings
W1	¾"φ	8	8'-0"	Wings (Bend in field)
W2	"	8	10'-0"	" (Bend in field)
W3	"	8	4'-0"	"
W4	"	8	3'-9"	"
W5	"	8	4'-6"	"
W6	"	8	5'-0"	"
R1	¾"φ	84	6'-6½"	Rail Bars
AC1	¾"φ	34	22'-6"	Abut. Caps

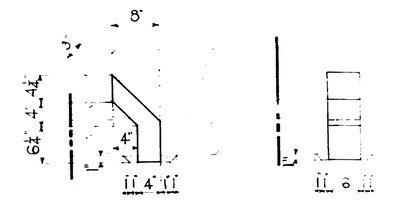
Bent Bars



Mark	Size	No	Length	Location
F1	⅜"φ	53	27'-2½"	Slab
F2	"	53	26'-2½"	Slab (Bottom)
S1	½"φ	106	5'-6"	Curbs
S2	"	84	4'-2"	Lower Rail Bar
S3	"	28	7'-2"	Diaphragm
S4	"	28	11'-11¾"	Abut Cap
S5	¾"φ	30	8'-6"	" " around piles
H1	½"φ	12	3'-7"	End Rail Posts
H2	½"φ	36	3'-3"	Int. "
P	¾"φ	64	4'-7"	All "



LONGITUDINAL SECTION

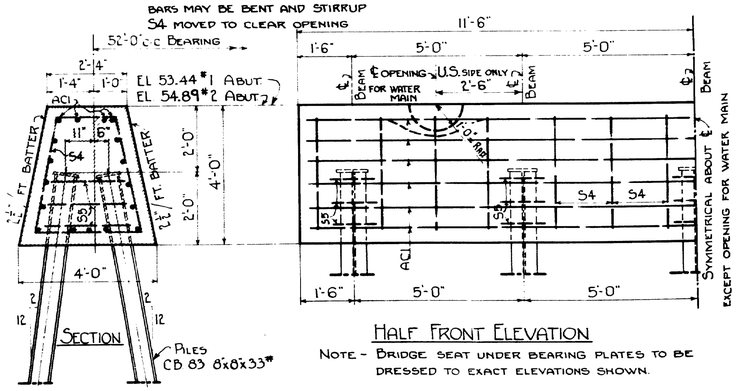


DRAIN DETAILS - 4 Req'd

#24 Gage Gal Iron

Note - Cover the 2" opening between the superstructure and the abutment cap on the back side with two layers of heavy roofing 10" wide. Coat the surface of concrete and the back of each layer as applied with hot tar or asphalt. The area to be covered by the roofing is to be recessed ¼" by nailing thin strips to the forms before the concrete is placed.

Note - Opening for water main to be made as indicated. AC1 bars may be bent and stirrup S4 moved to clear opening

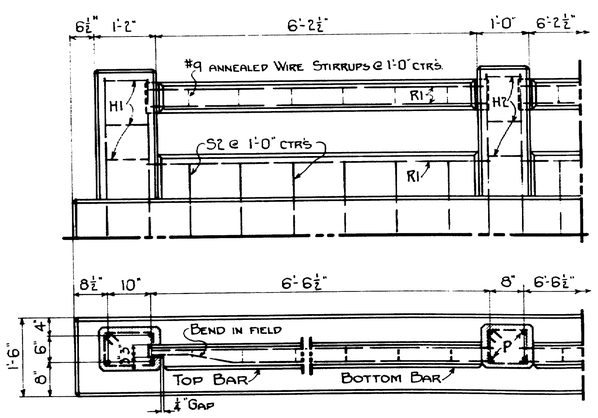


ABUTMENT CAP DETAILS

Half Front Elevation

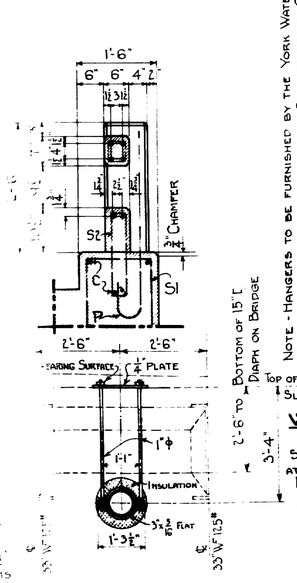
Note - Bridge seat under bearing plates to be dressed to exact elevations shown.

DESIGN
H-15 Loading
fs = 16000#/□"
fc = 900#/□"
n = 10



RAIL DETAILS

Curb to be cast with slab. Steel for posts and lower rail bar to be placed before curb is cast. The lower bar is to be cast in place. The longitudinal steel in the bar to project 2". The top bar is to be precast and set in position so that the ends project into post forms 2½". Wrap the tongue end with two layers of heavy roofing. Build posts forms and cast posts. All exposed roofing is to be neatly trimmed away after forms are removed. All exposed edges of concrete to be chamfered ¼" unless otherwise noted.



Note - Hangers to be furnished by the York Water District, York, Maine, and placed by the Contractor. Cost of placing to be paid by the York Water District.

WATER PIPE HANGERS

Spaced alternately at 4'-0" and 8'-0" o.c.

Material Req'd

¼" Steel Plate
2-1"φ Rods & nuts
3"x3/16" Flats

Rods and flats to be galvanized

PWA Project No. Me. 1096-25F

Design and Traced - [illegible]
Checked - [illegible]

Town	16-28
Bridge	3592

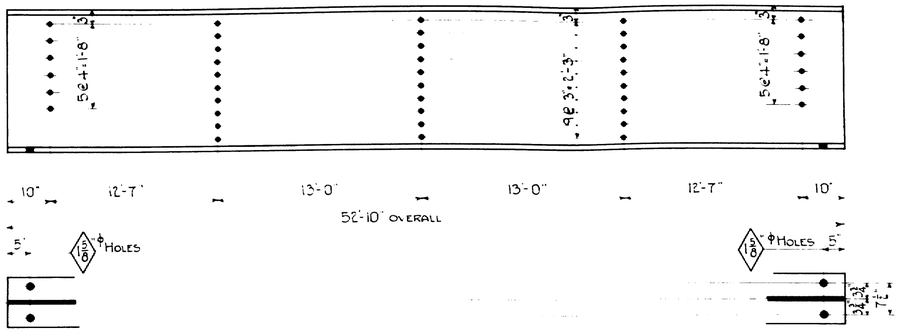
State Highway Commission
Bridge Division

CLARK BRIDGE
Over
CAPE NEDDICK RIVER
In the Town of
YORK - YORK CO.
Bridge Details

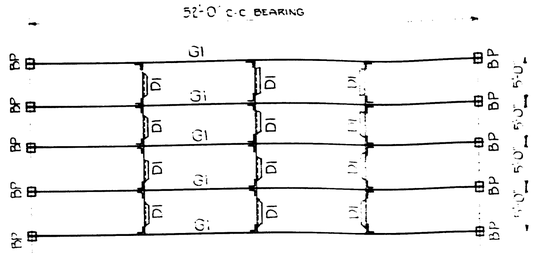
Sheet 3 of 4 Augusta, Me. Sept., 1938.

32-11

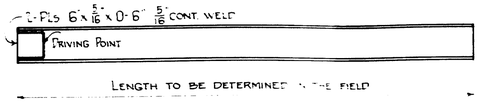
0 1 2 3 4 5 Inches



G1 - 33" WF x 125# x 52'-10" 5-REQ'D

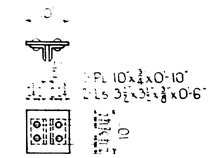


ERECTION DIAGRAM



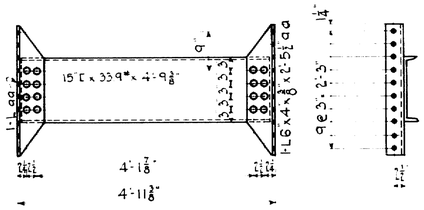
PILE DETAIL 20-REQ'D

CB 83 8x8x33# COPPER BEARING

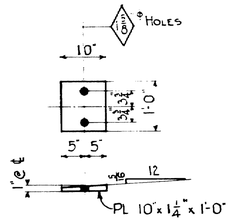


PILE CAP DETAIL 20-REQ'D

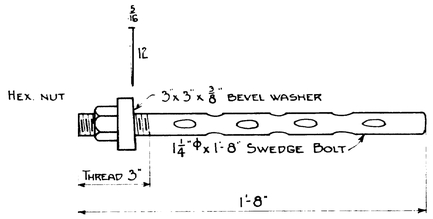
NOTE - PILE CAP TO BE WELDED IN POSITION AFTER PILE HAS BEEN DRIVEN AND CUT OF AT THE PROPER ELEVATION AS SHOWN ON THE SUBSTRUCTURE DETAILS



D1 - DIAPRAGMS 12-REQ'D



BP - BEARING PLATE 10-REQ'D



ANCHOR BOLT 20-REQ'D

BOLT SCHEDULE				
SIZE	NO. (NET)	KIND	LENGTH	LOCATION
3/4" Φ	90	MACHINE HEX HEAD NUT	2 1/4"	INT. D1 TO G1
3/4" Φ	60		2"	EXT. D1 TO G1

ALL SHOP WORK TO BE RIVETED
ALL RIVETS TO BE 3/4" Φ UNLESS OTHERWISE NOTED.
ALL HOLES TO BE 13/16" Φ UNLESS OTHERWISE NOTED.
ALL FIELD CONNECTIONS TO BE BOLTED (AM. BR. CO. OR U.S. STANDARD BOLTS AND NUTS - HEX. HEAD AND NUTS)

H-15 LOADING
ALL DETAILS TO BE MADE IN ACCORDANCE WITH MAINE STATE HIGHWAY COMMISSION SPECIFICATIONS FOR STEEL HIGHWAY BRIDGES 1937.

DESIGN AND TRACED - Hamilton
CHECKED - BTW

TOWN	16-28
BRIDGE	3592

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

CLARK BRIDGE
OVER
CAPE NEDDICK RIVER
IN THE TOWN OF
YORK - YORK CO.
STRUCTURAL STEEL DETAILS

SHEET 4 OF 4 AUGUSTA, ME. SEPT. 1938.

PWA PROJECT NO. ME. 1096-25F

32-12

0 1 2 3 4 5 INCHES