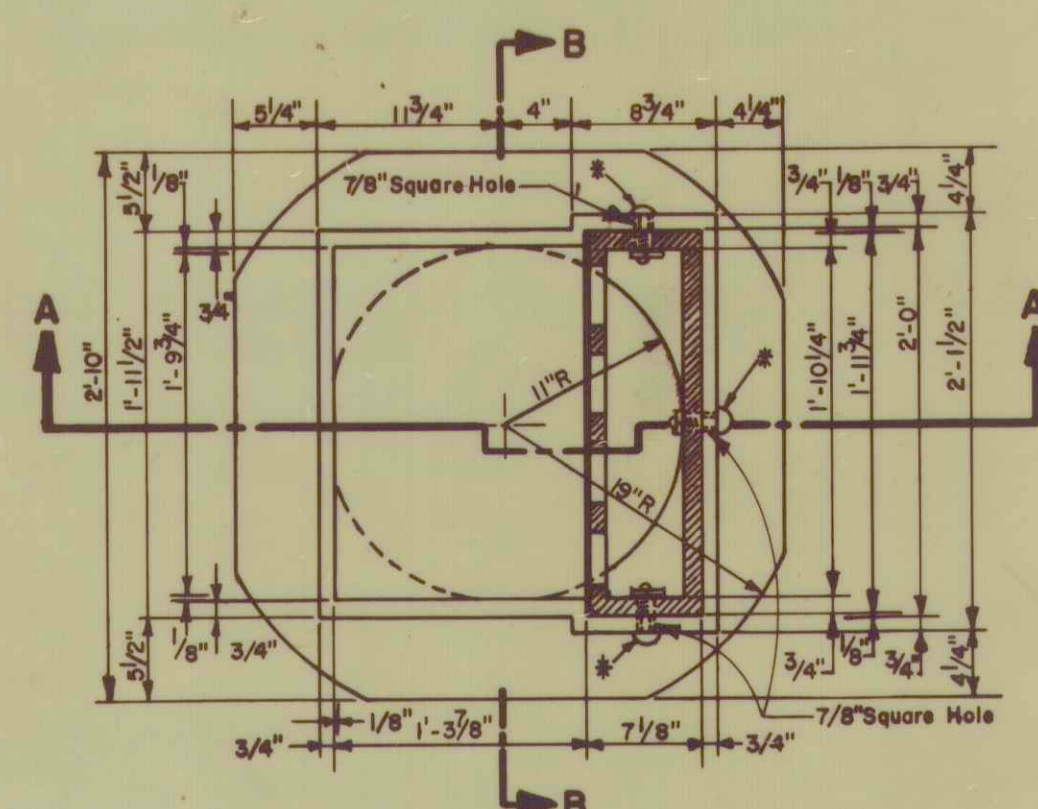
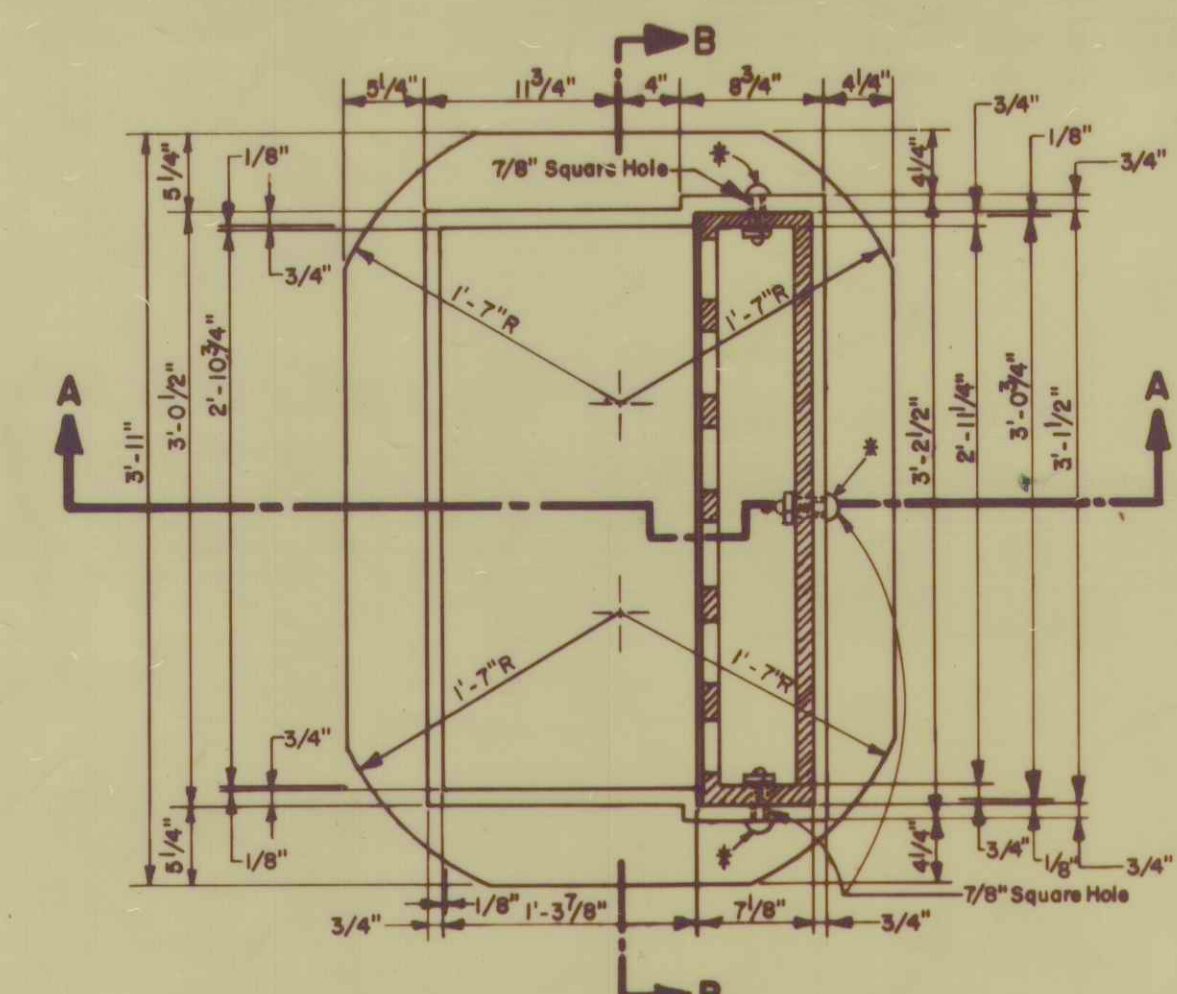




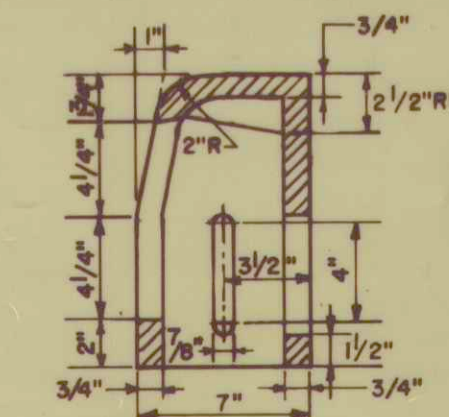
PLAN

PLAN of CASTINGS TYPE 8 & 9 ARE SIMILAR. FRAME and GRATING ARE THE SAME

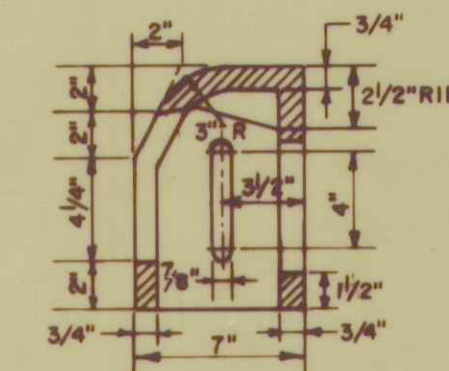


PLAN

PLAN of CASTINGS TYPE 10 & 11 ARE SIMILAR. FRAME and GRATING ARE THE SAME



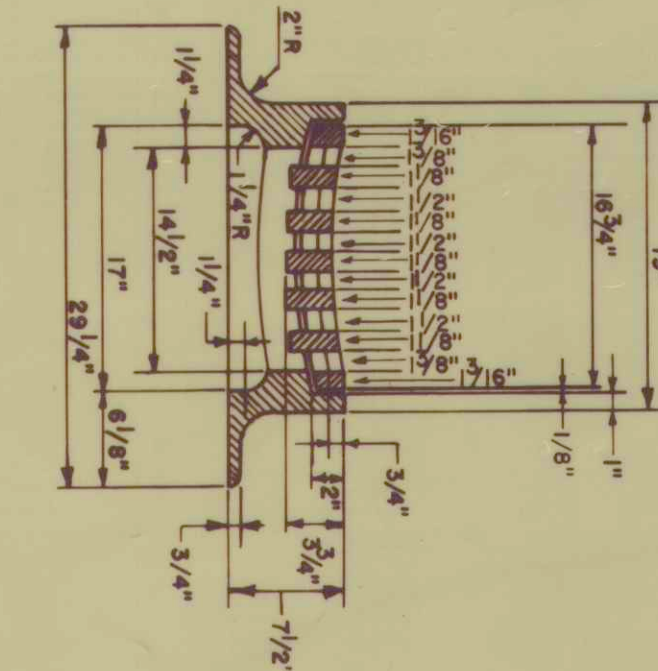
CURB CASTING SECTION CASTINGS TYPE 8 & 10



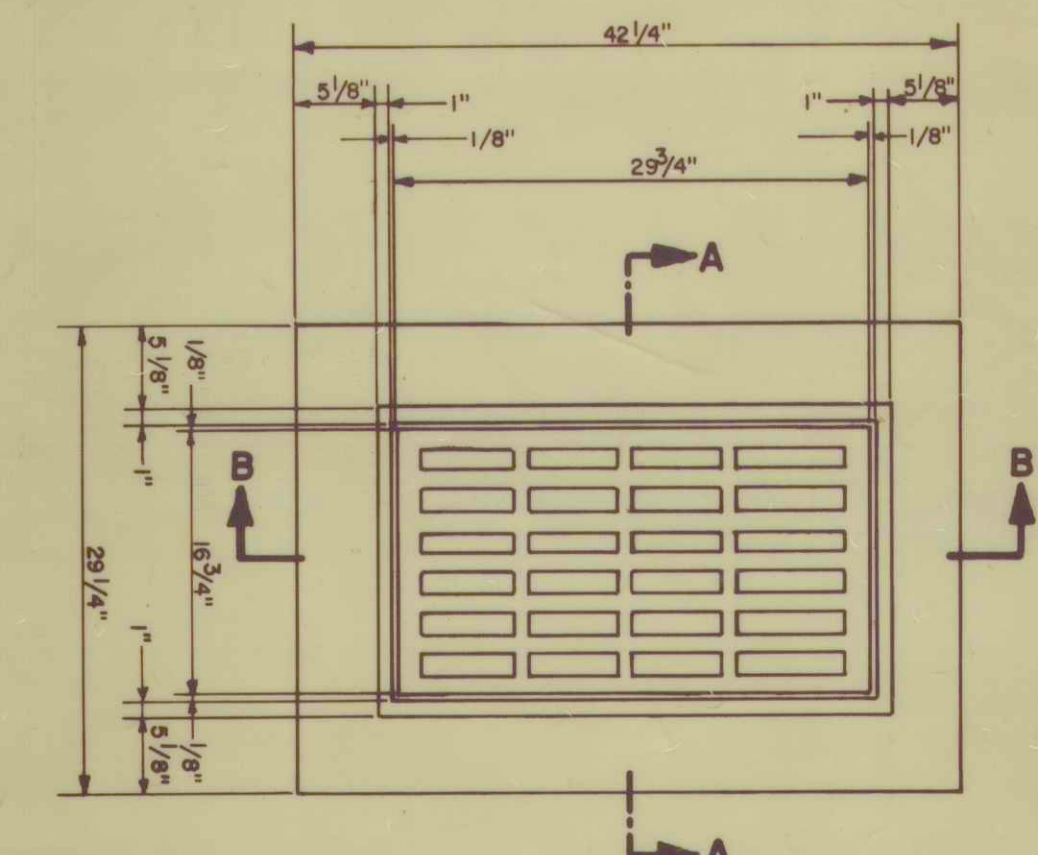
CURB CASTING SECTION CASTINGS TYPE 9 & 11

GENERAL NOTES

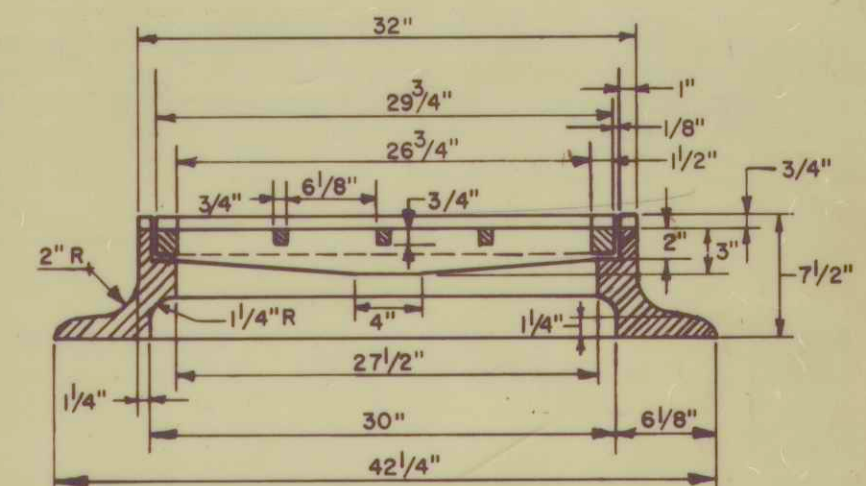
- All Grates and Manhole Covers shall be Cast of Ductile Iron or Steel and all Frames, Rings and Curb Boxes shall be cast of Gray Iron. Unless otherwise specified, See Section 909.05 of the STANDARD SPECIFICATION.
- Grates shall be placed with the MAXIMUM dimension of the RECTANGULAR OPENING parallel to the DIRECTION of FLOW, (CASTINGS TYPE 13 and 14).



SECTION "A-A"

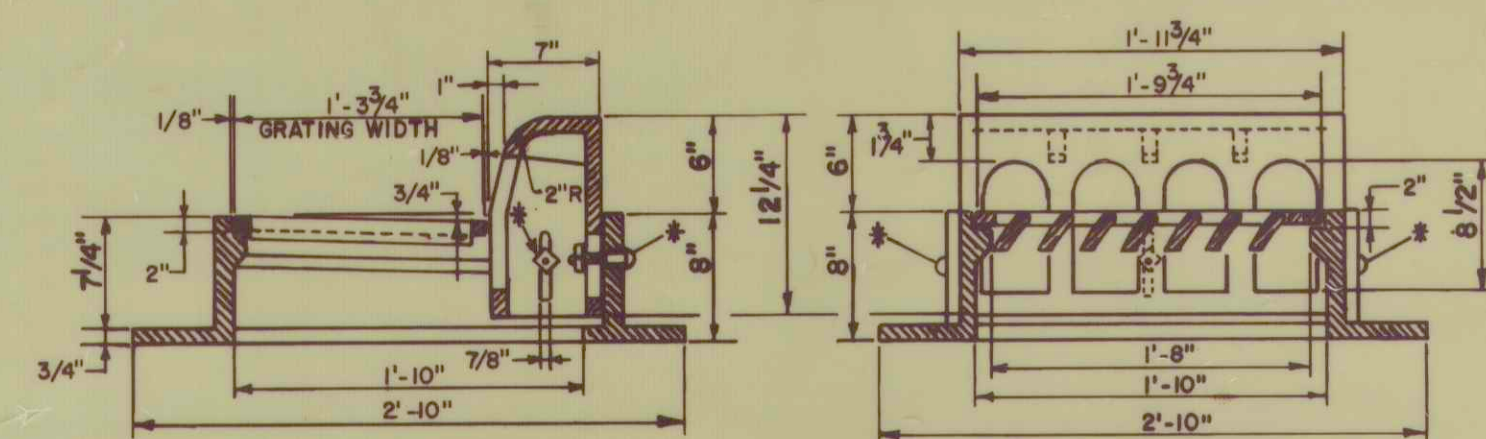


PLAN



SECTION "B-B"

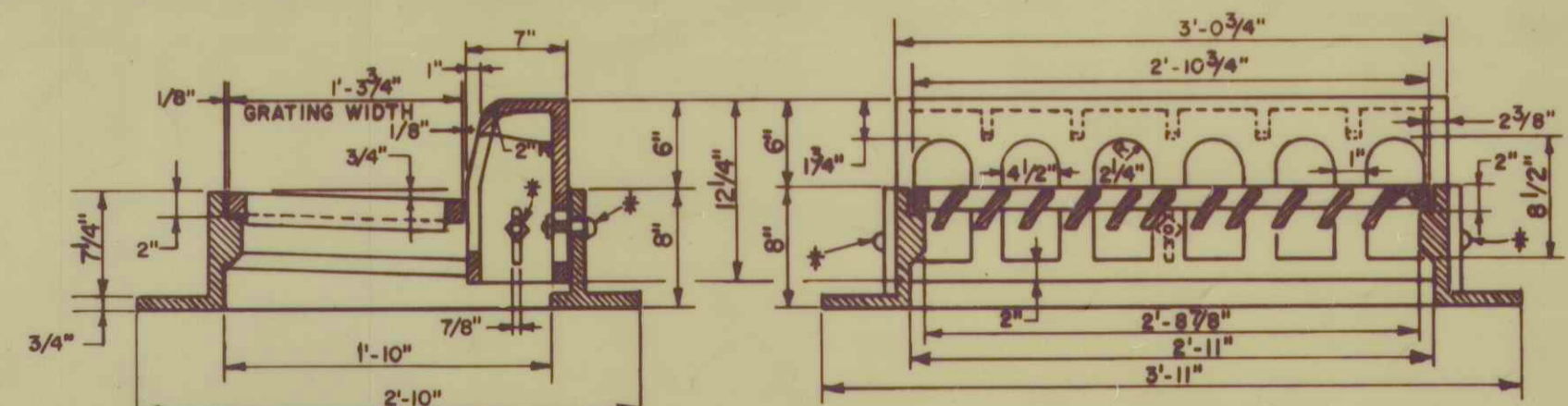
CASTING TYPE 13



SECTION "A-A"

SECTION "B-B"

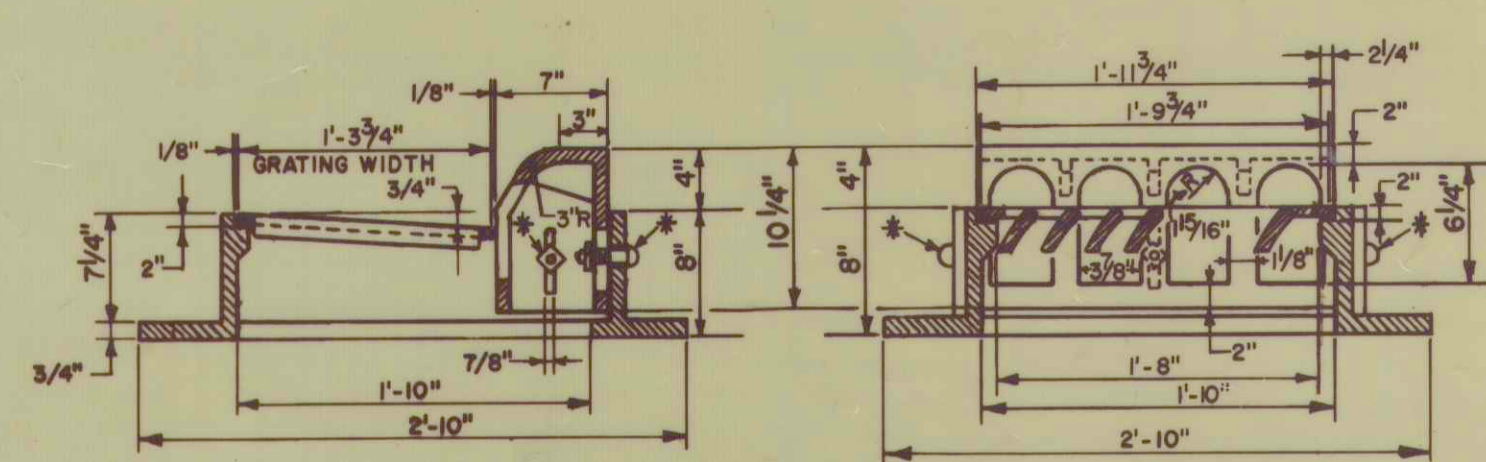
CASTING TYPE 8



SECTION "A-A"

SECTION "B-B"

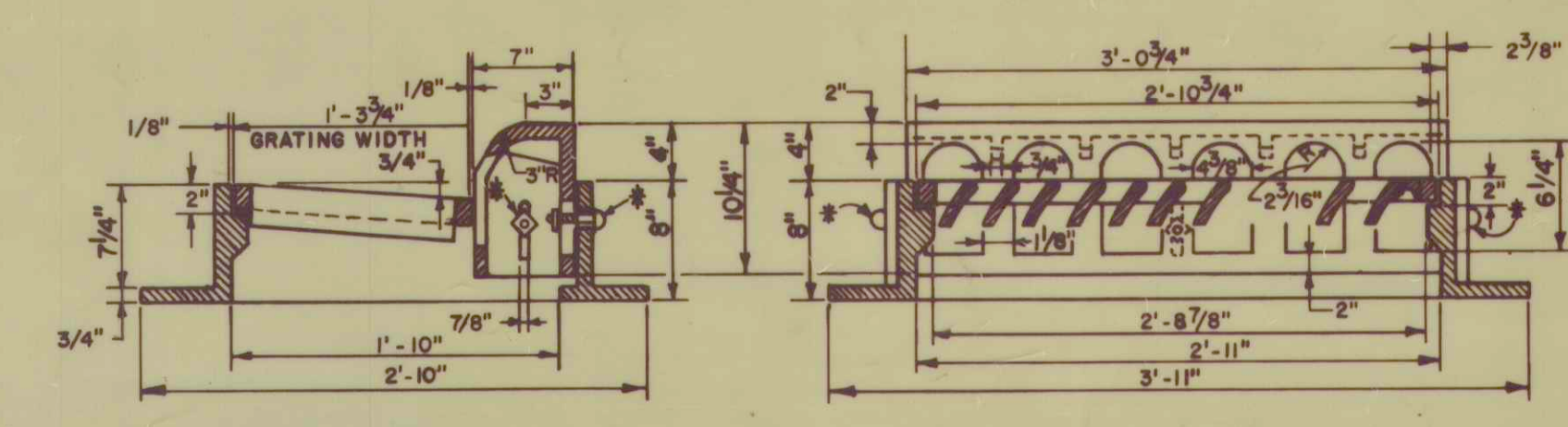
CASTING TYPE 10



SECTION "A-A"

SECTION "B-B"

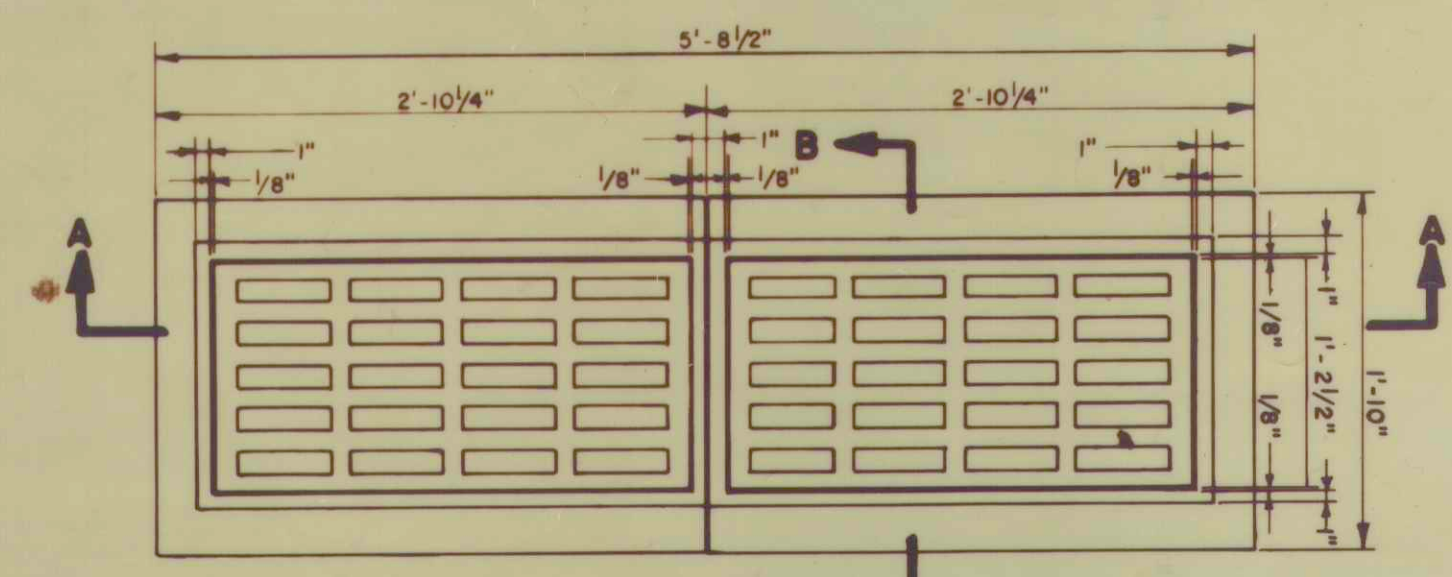
CASTING TYPE 9



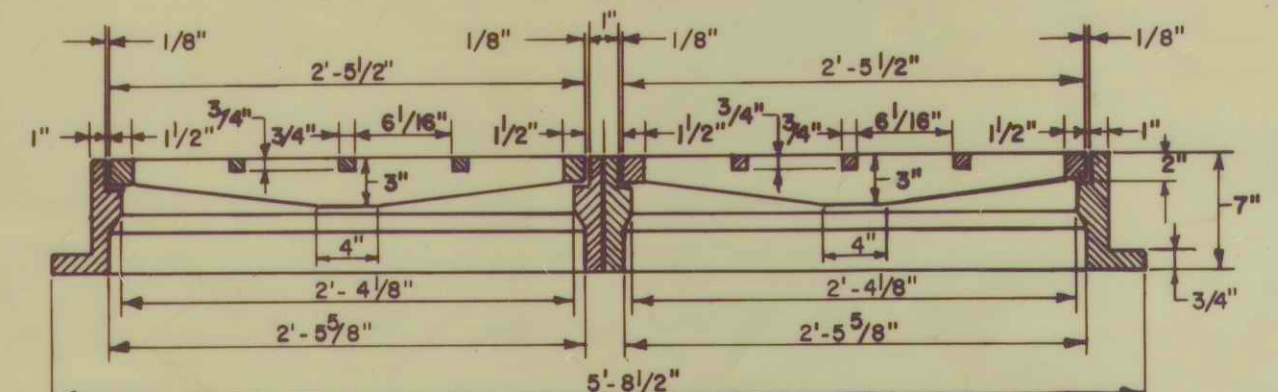
SECTION "A-A"

SECTION "B-B"

CASTING TYPE 11

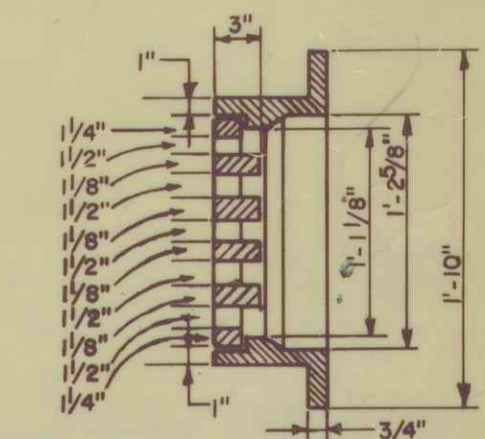


PLAN

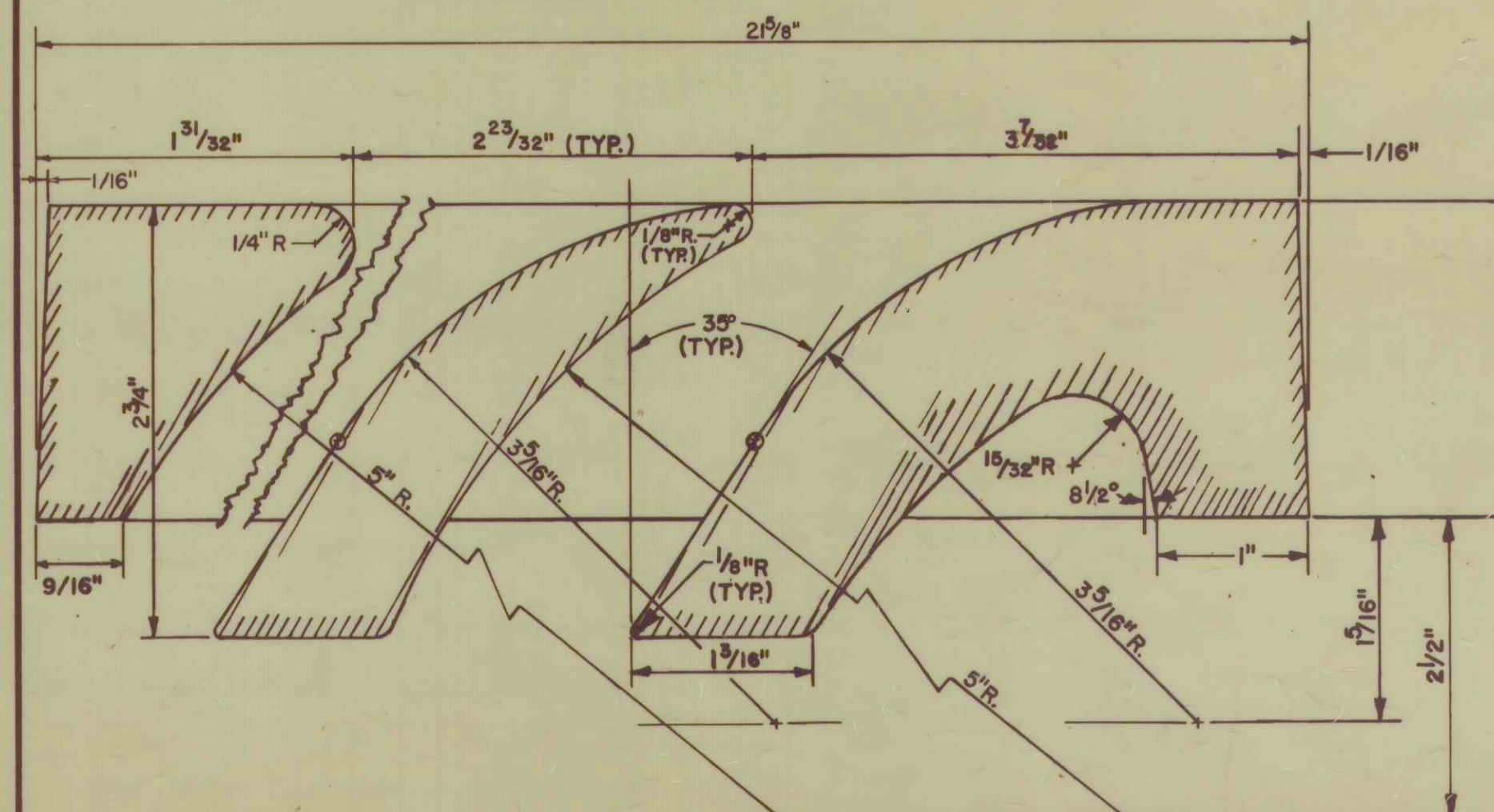


SECTION "A-A"

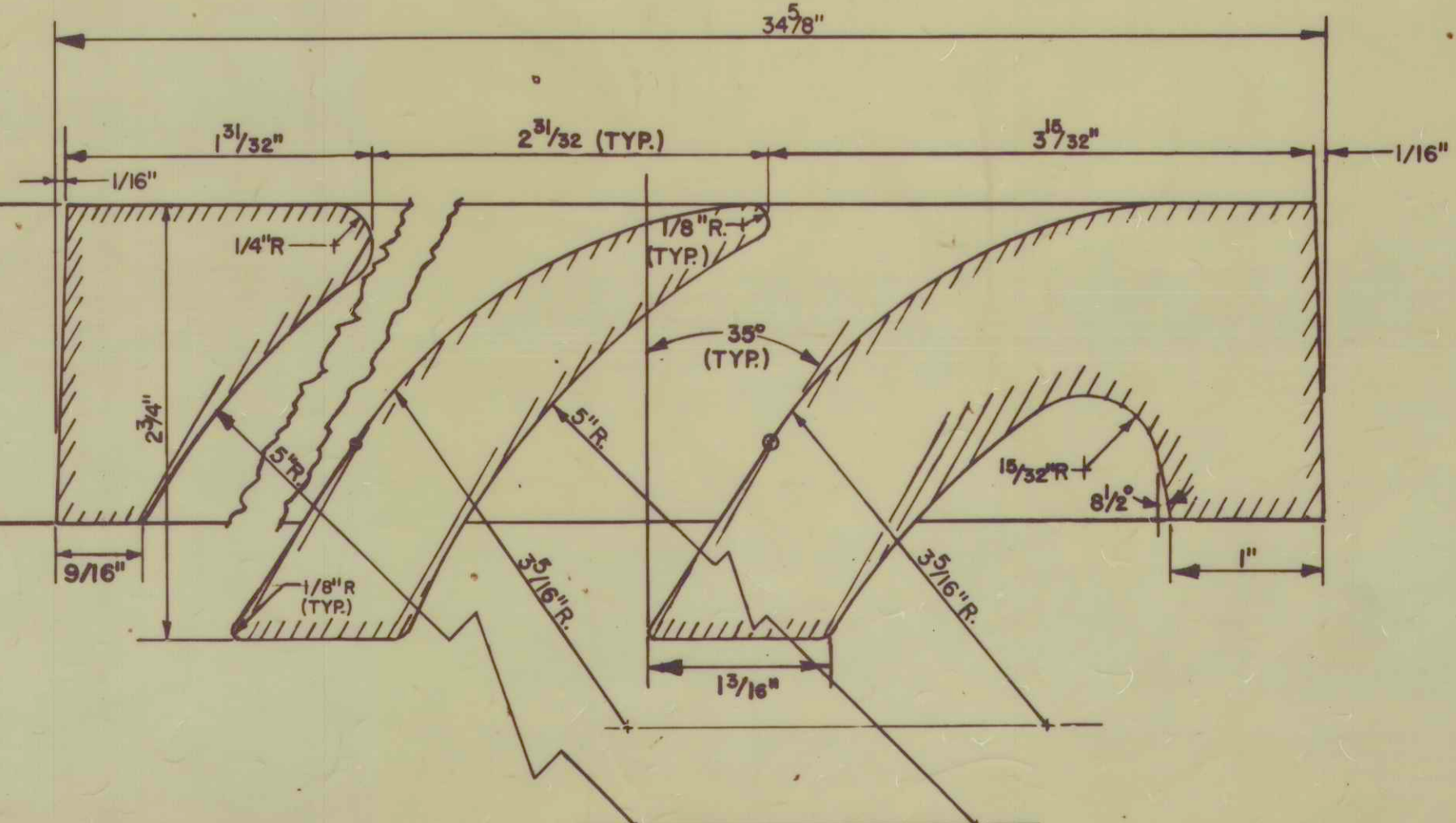
CASTING TYPE 14



SECTION "B-B"



FIN DETAIL FOR CASTINGS TYPE 8 & 9



FIN DETAIL FOR CASTINGS TYPE 10 & 11

REVISIONS	
DATE	REMARKS



RECOMMENDED for APPROVAL *Ryan L. Burch 9/1/74* SHEET
 ENGINEER OF ROAD DESIGN
 APPROVED *J.R. Under 9/25/74*
 CHIEF DIVISION OF DESIGN
 APPROVED *J.K. Holloway 9-26-74*
 CHIEF HIGHWAY ENGINEER

MC1