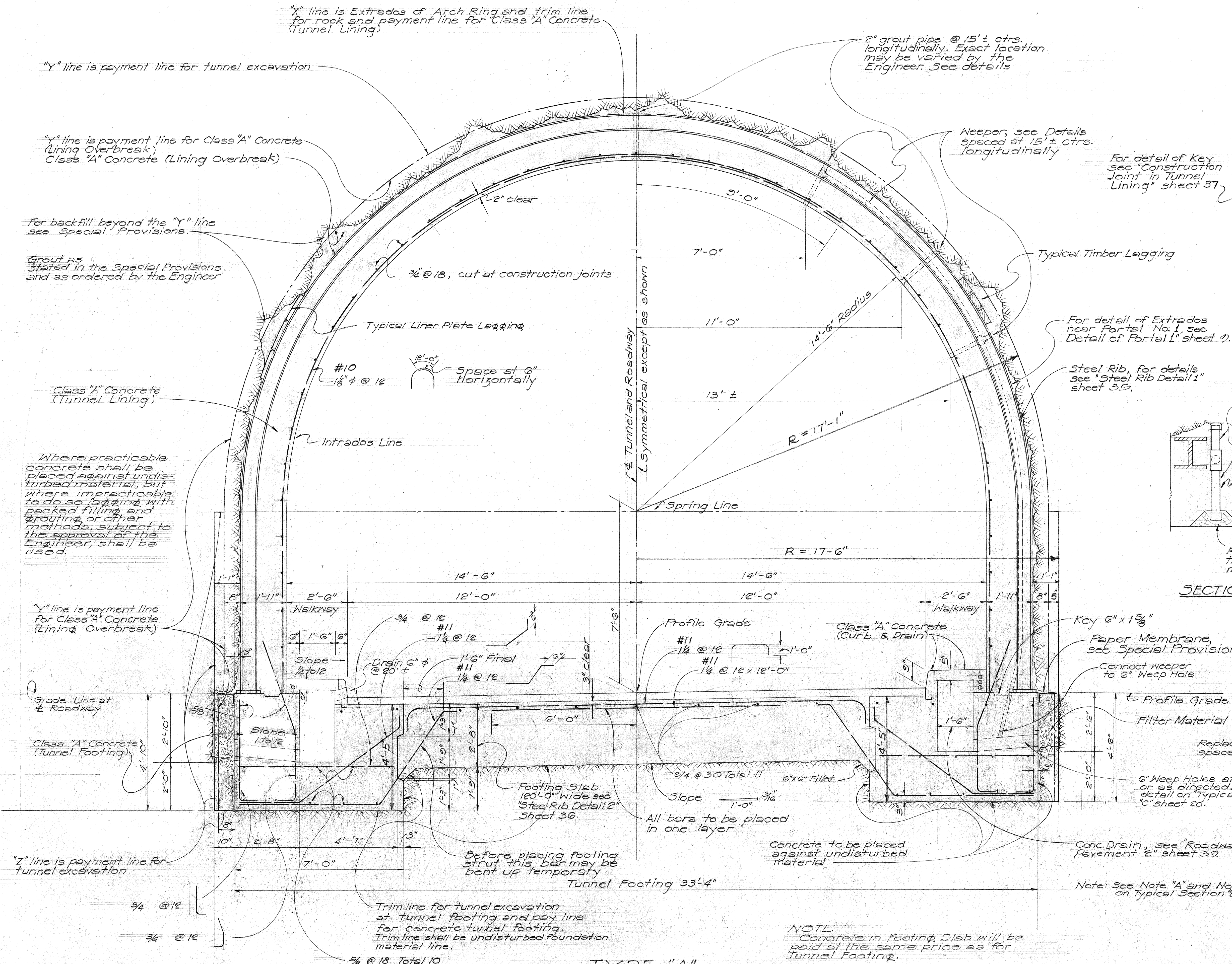
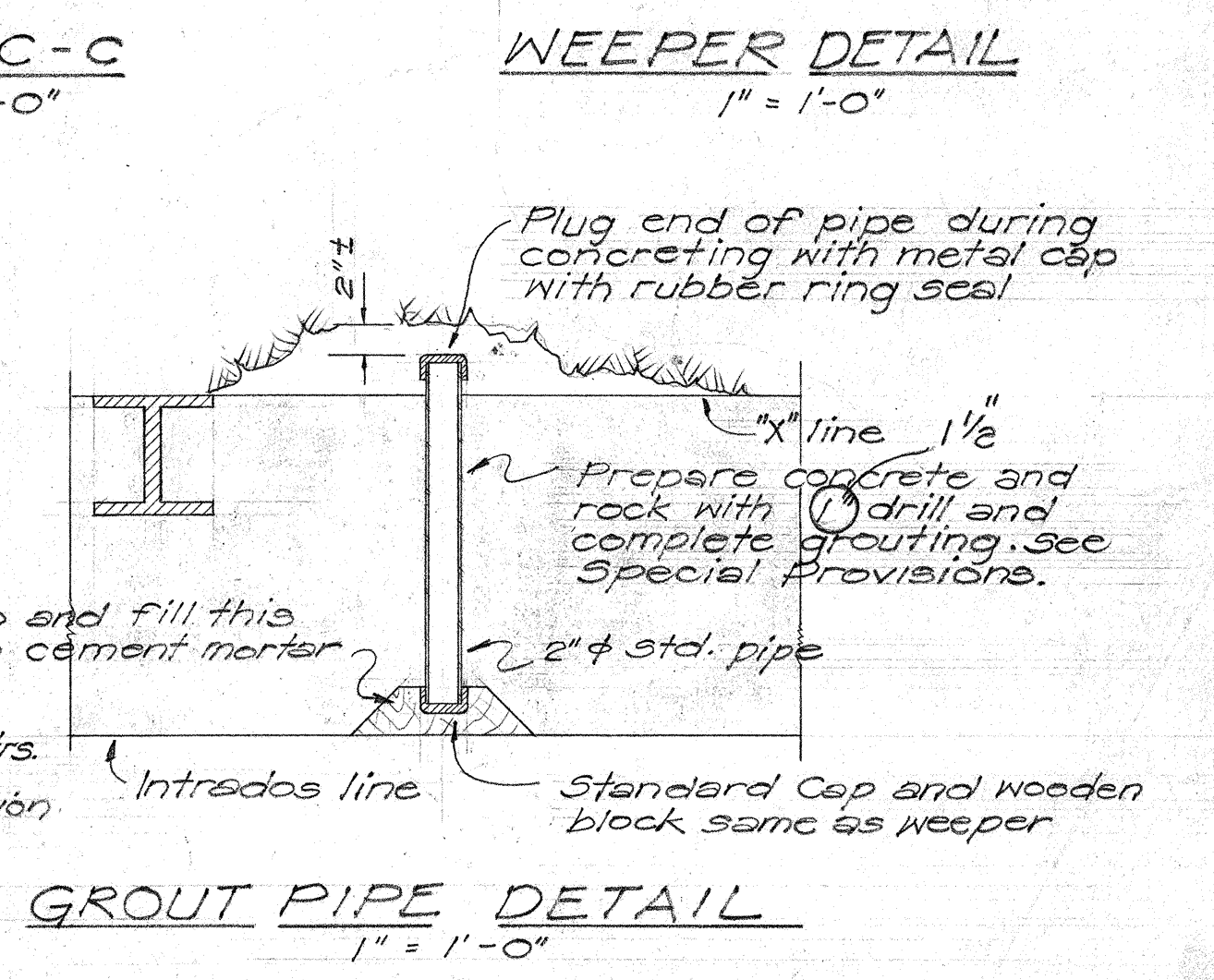
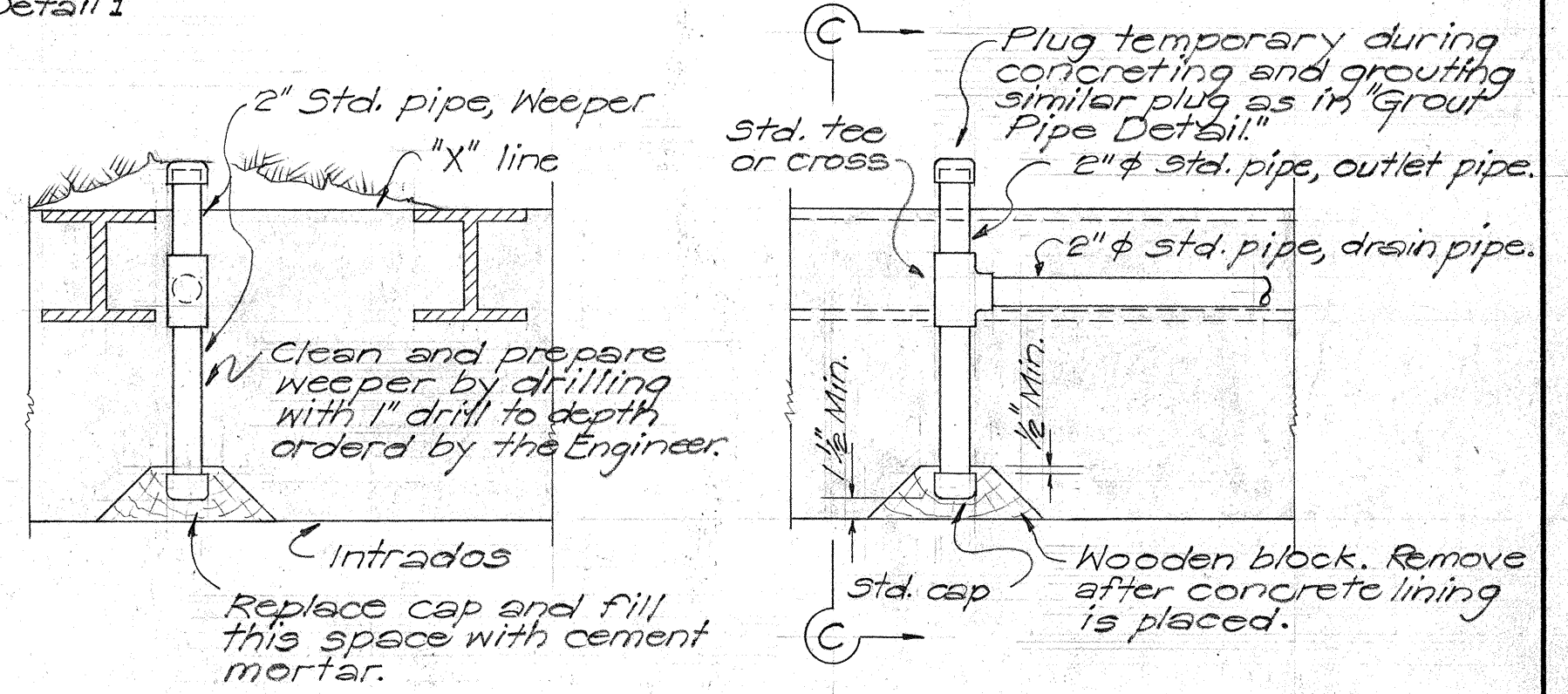
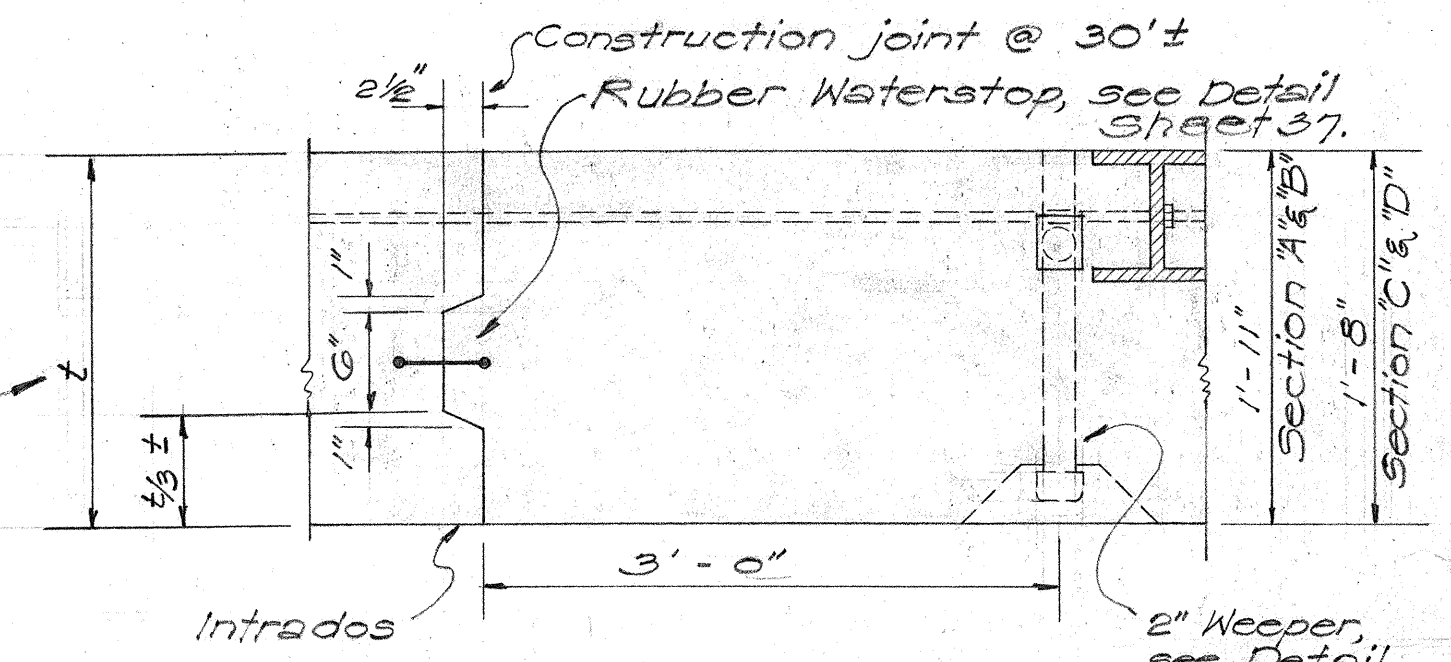


- Notes:
1. Spacing between construction joints may be increased if approved by the Engineer.
 2. For additional details of construction joint see "Construction Joint" sheet 37.



Note: See Note "A" and Note "B" on Typical Section "B" sheet 19

NOTE:
Concrete in Footing Slab will be paid at the same price as for Tunnel Footing.

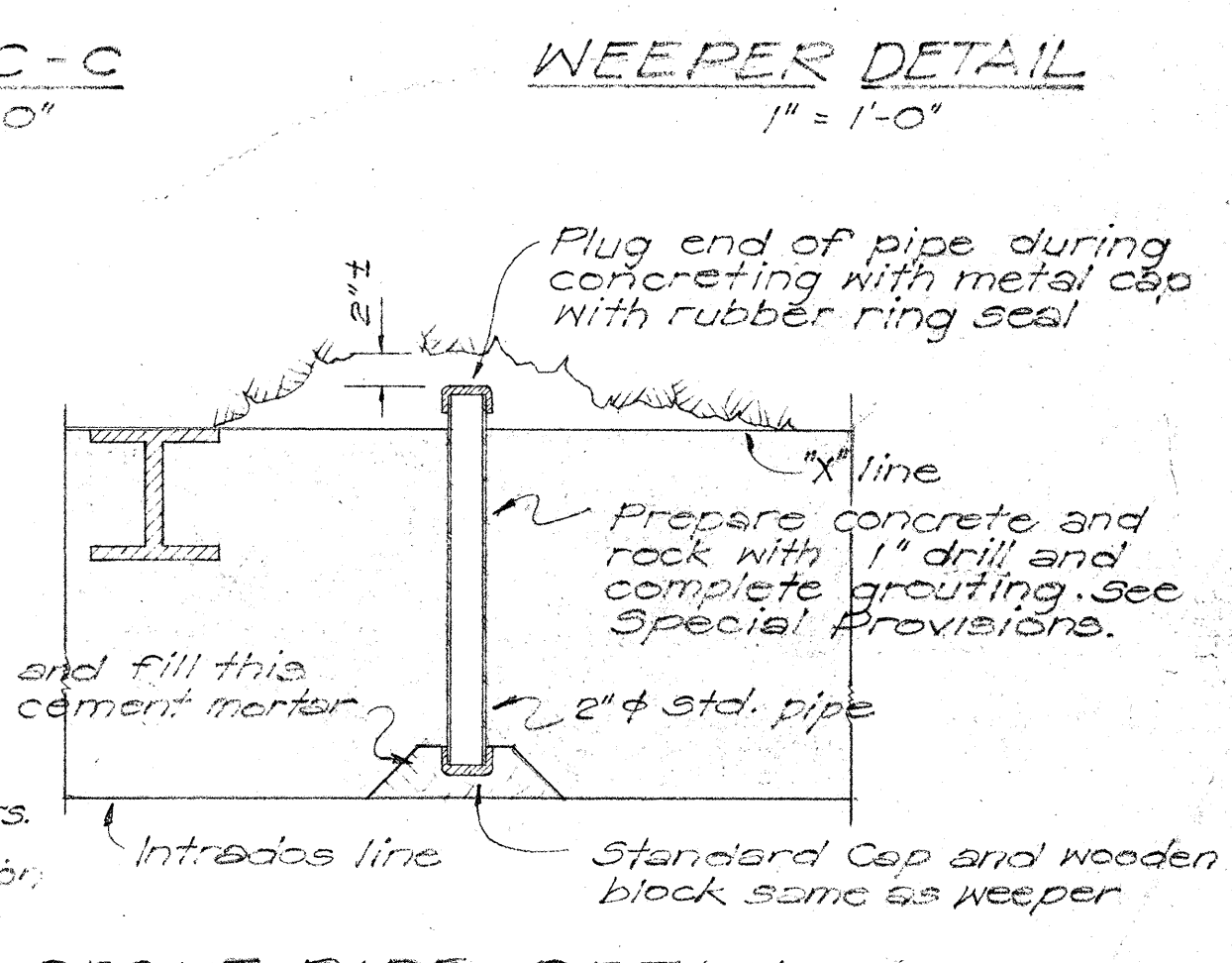
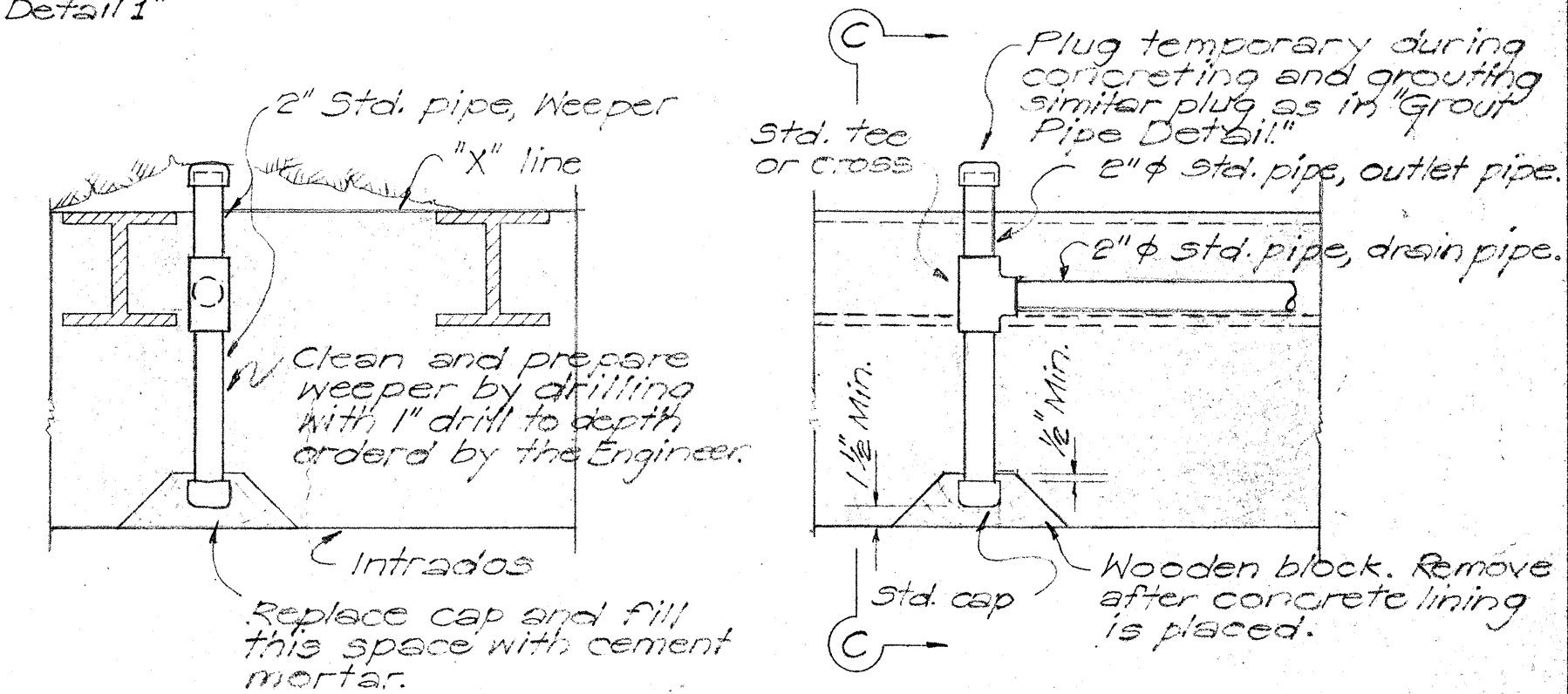
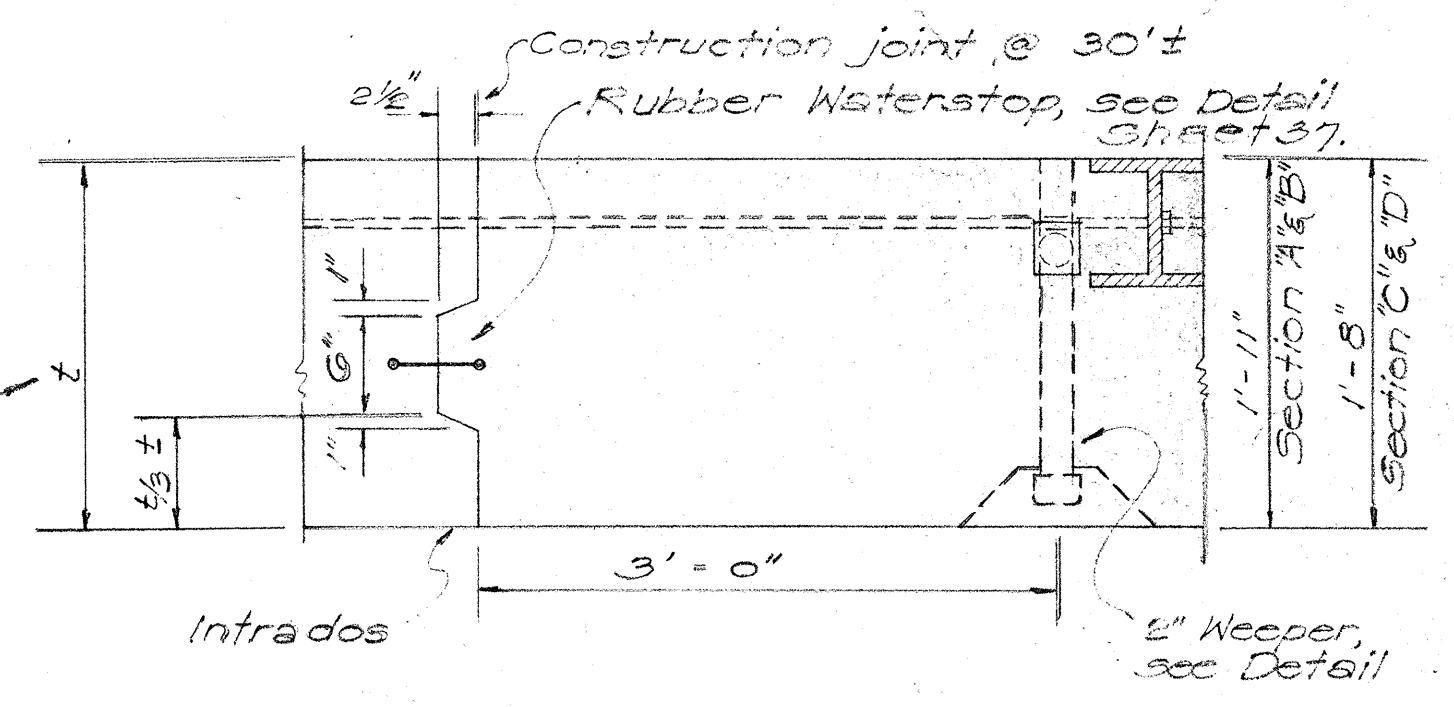
TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII
TYPICAL SECTION "A"
NUUANU PALI TUNNELS
PALI ROAD
PROJ. NO. 5216(5)
Scale: As noted June 1954

SHEET NO. 18 OF 42 SHEETS

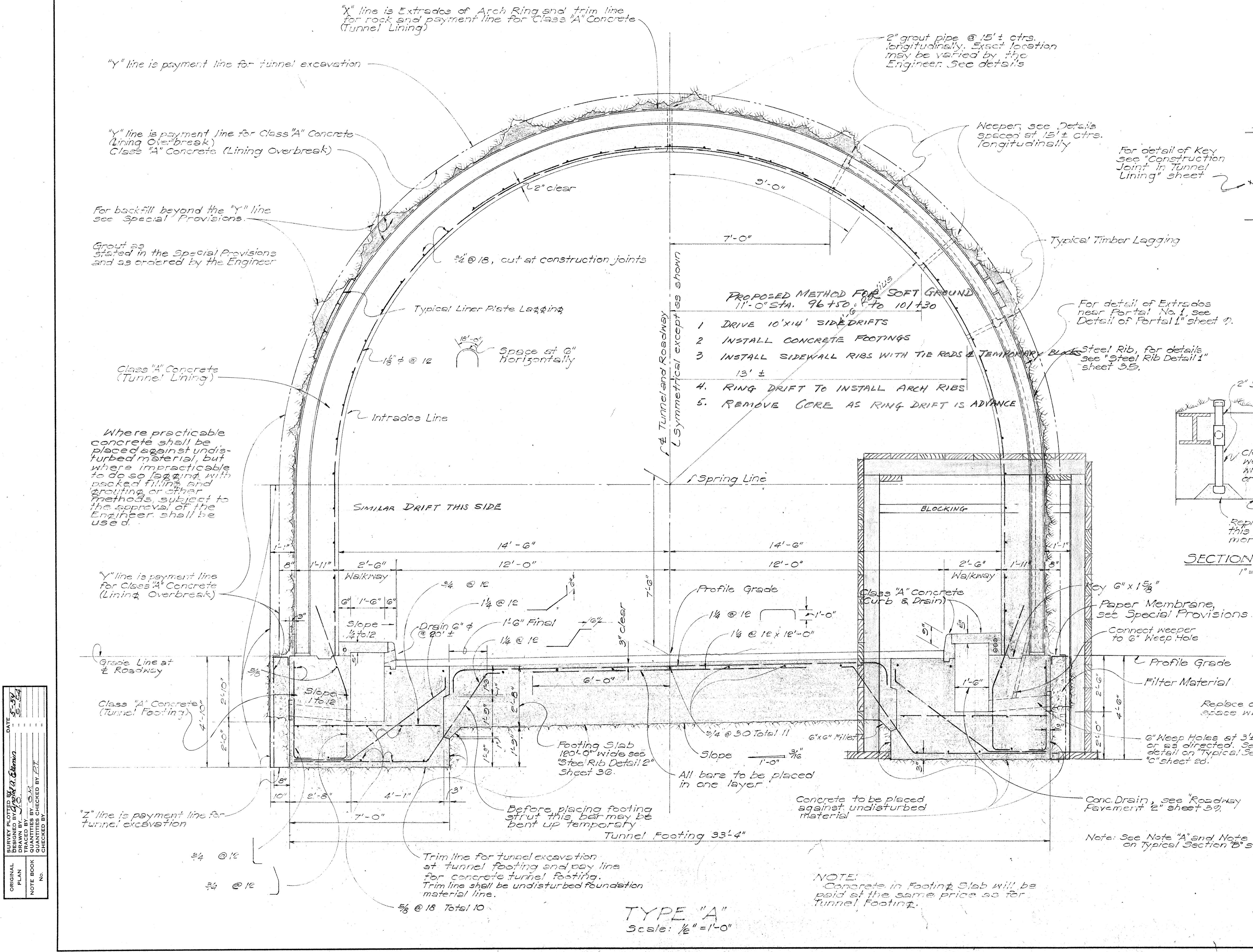
5708.18

DATE: 5-27-54
DESIGNED BY: G. A. Suman
CHECKED BY: J. C. S.
QUANTITIES BY: G. A. S.
CHECKED BY: J. C. S.
NO. 18

Notes:
 1. Spacing between construction joints may be increased if approved by the Engineer.
 2. For additional details of construction joint see "Construction Joint" sheet 37.



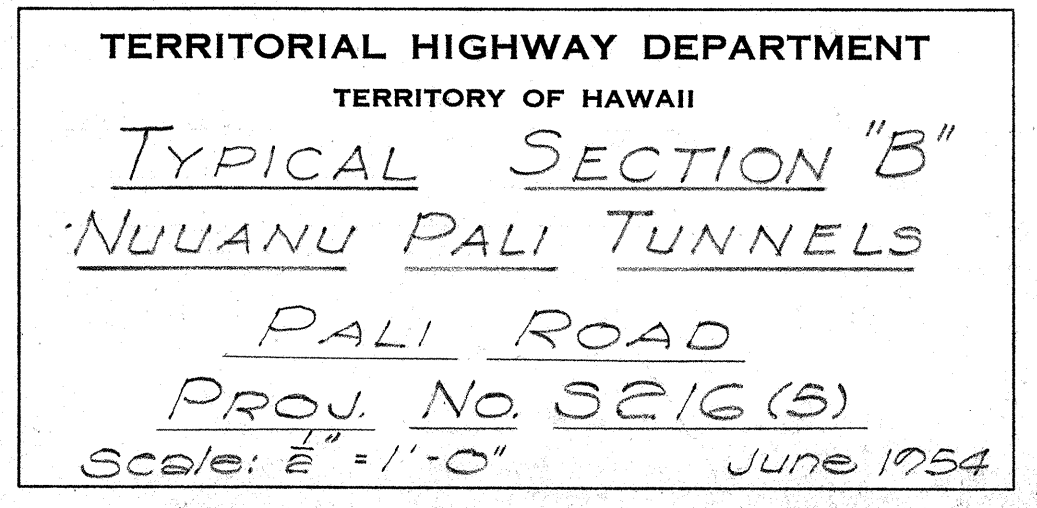
- PROPOSED METHOD FOR SOFT GROUND**
 11'-0" STA. 96+50 TO 101+30
1. DRIVE 10'x14' SIDE DRIFTS
 2. INSTALL CONCRETE FOOTINGS
 3. INSTALL SIDEWALL RIBS WITH TIE RADS & TEMPORARY BRACING
 4. RING DRIFT TO INSTALL ARCH RIBS
 5. REMOVE CORE AS RING DRIFT IS ADVANCE



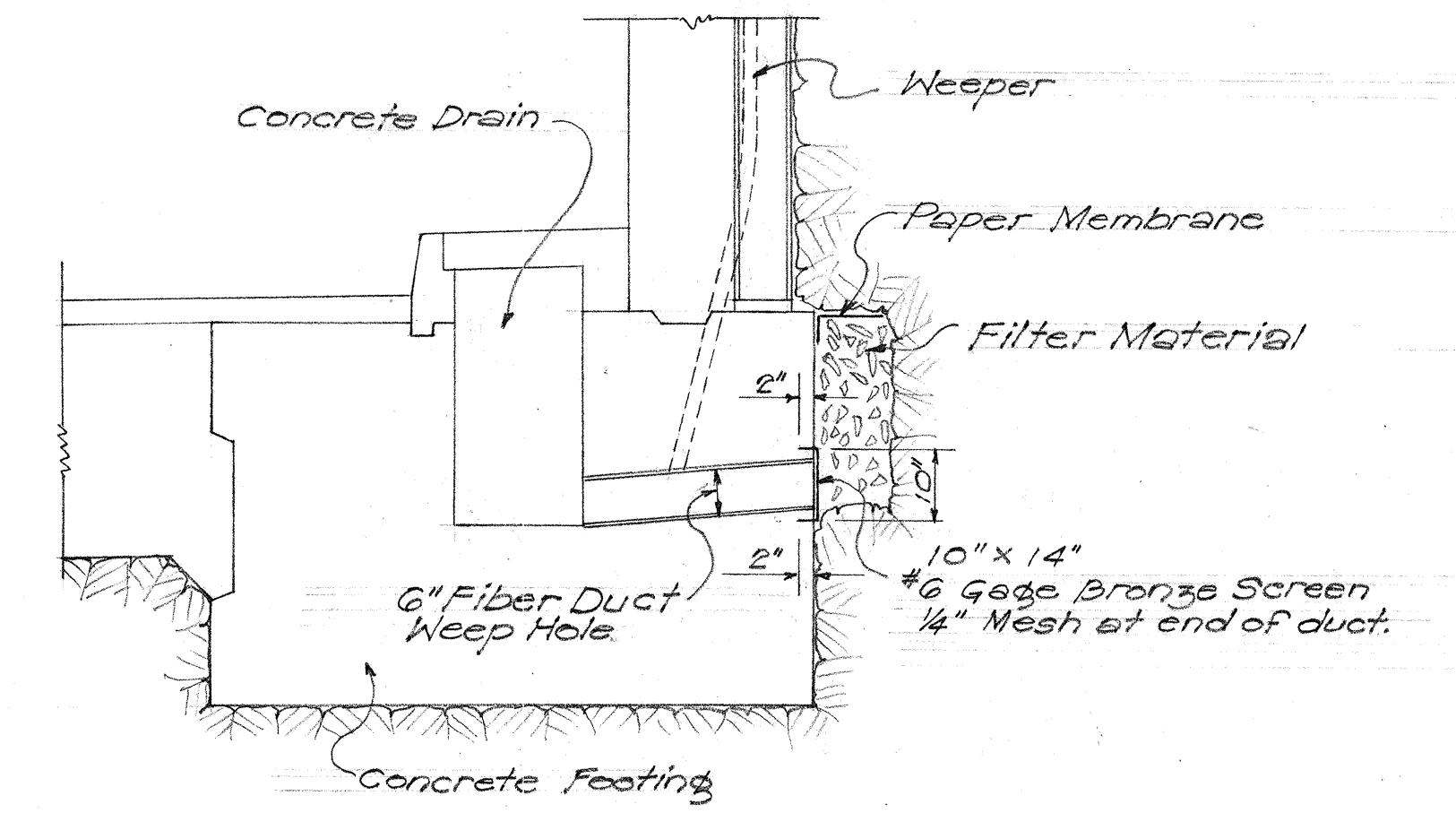
TERRITORIAL HIGHWAY DEPARTMENT
 TERRITORY OF HAWAII
TYPICAL SECTION "A"
NUUANU PALI TUNNELS
PALI ROAD
 PROJ. NO. 5216(5)
 Scale: As noted June 1954
 SHEET No. 18 OF 42 SHEETS

DATE: 5-5-54
 DESIGNED BY: J. A. C. C. C.
 DRAWN BY: J. A. C. C. C.
 CHECKED BY: J. A. C. C. C.
 ORIGINAL PLAN NO. 5216(5)
 NOTE BOOK NO. 5216(5)

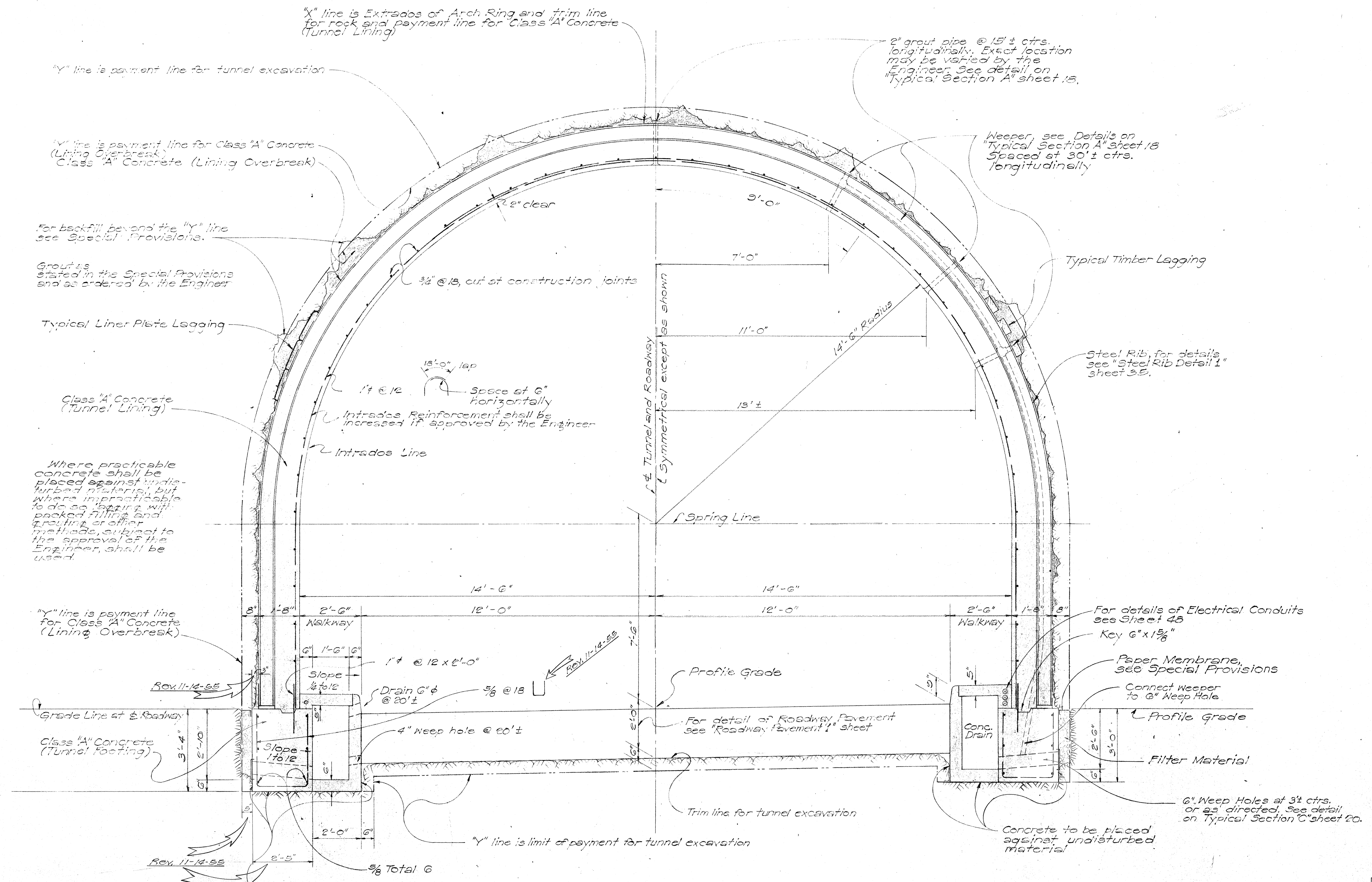
ORIGINAL PLAN	SURVEY PLOTTED BY DESIGNED BY <i>Robert W. Edvinson</i> DRAWN BY <i>W.O.</i> TRIMMED BY _____ QUANTITIES BY <i>S.M.</i> QUANTITIES CHECKED BY <i>P.T.</i> CHECKED BY _____	DATE " <i>5-54</i> " <i>5-54</i> " _____ " _____ " _____ " _____
NOTE BOOK No.		



ORIGINAL PLAN	SURVEY PLOTTED BY DESIGNED BY <u>W. A. Glemm</u> DRAWN BY <u>W. A. Glemm</u>	DATE <u>5-31</u> <u>5-54</u>
NOTE BOOK	QUANTITIES BY <u>O.M.</u> QUANTITIES CHECKED BY <u>P.T.</u>	"
No.	CHECKED BY	"

[illegible]

TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII
TYPICAL SECTION "C"
NUUANU PALI TUNNELS
PALI ROAD
PROJ. NO. S216(5)
SCS/e: $\frac{1}{2}$ " = 1' - 0" June 1954



SURVEY PLOTTED BY: *[Signature]*
 DESIGNED BY: *[Signature]*
 TRACED BY: *[Signature]*
 QUANTITIES BY: *[Signature]*
 CHECKED BY: *[Signature]*
 NO. *[Blank]*

TYPE "D"
 Scale: 1/2" = 1'-0"

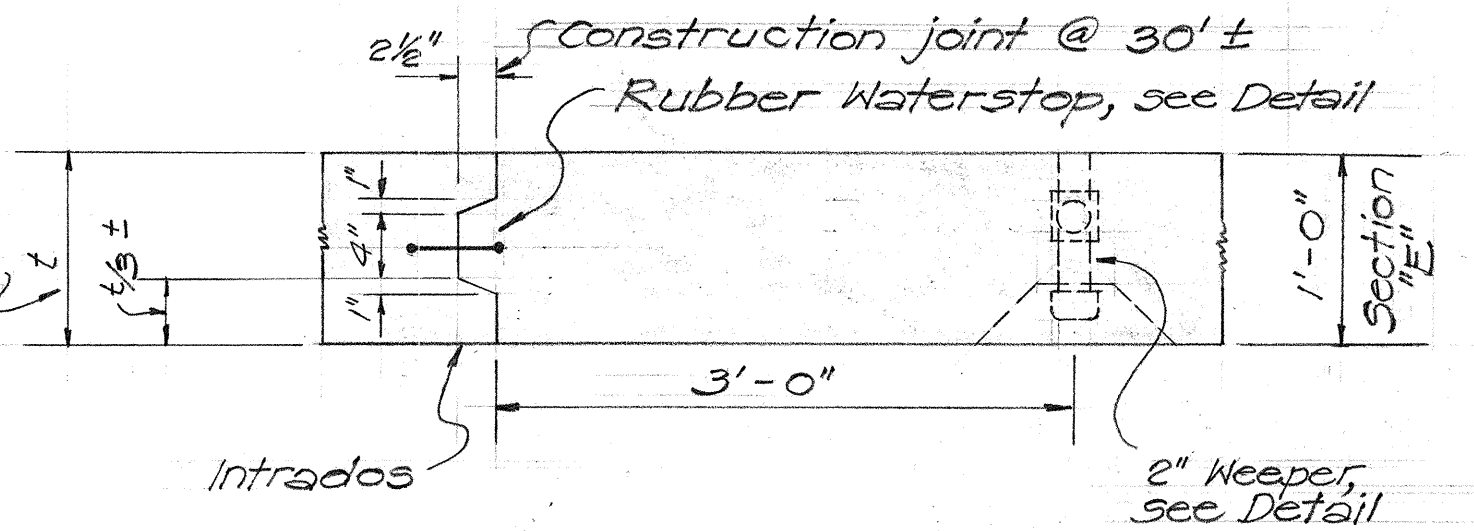
Note: For detail of Conc. Drain and Conc. Drain Cover, see "Roadway Pavement 1" sheet 38.

Note: See Note "A" and Note "B" on "Typical Section B" sheet 19.

TERRITORIAL HIGHWAY DEPARTMENT
 TERRITORY OF HAWAII
TYPICAL SECTION "D"
NUUANU PALI TUNNELS
 PALL ROAD
 PROJ. NO. 5216(5)
 Scale: 1/2" = 1'-0" June 1954

SHEET No. 21 OF 42 SHEETS

- Notes:
1. Spacing between construction joints may be increased if approved by the Engineer.
 2. For additional details of construction joint see "Construction Joint" sheet 37.



For detail of Key see "Construction Joint in Tunnel Lining" sheet 37.

Weeper, see Details on "Typical Section A" sheet 18 spaced at 30' ± ctrs. longitudinally

2" grout pipe @ 15' ± ctrs. longitudinally. Exact location may be varied by the Engineer. See detail on "Typical Section A" sheet 18.

"X" line is Extrados of Arch Ring and trim line for rock and payment line for "Class A" Concrete (Tunnel Lining)

"Y" line is payment line for tunnel excavation

"Y" line is payment line for Class "A" Concrete (Lining Overbreak)
Class "A" Concrete (Lining Overbreak)

For backfill beyond the "Y" line see Special Provisions.

Grout as stated in the Special Provisions and as ordered by the Engineer

Class "A" Concrete (Tunnel Lining)

Where practicable concrete shall be placed against undisturbed material, but where impracticable to do so lagging with packed filling and grouting or other methods, subject to the approval of the Engineer, shall be used.

"Y" line is payment line for Class "A" Concrete (Lining Overbreak)

Grade Line at Roadway

Class "A" Concrete (Tunnel Footing)

Trim line for tunnel excavation at tunnel footing and pay line for concrete tunnel footing. Trim line shall be undisturbed foundation material line.

TYPE "E"
Scale: 1/2" = 1'-0"

NOTE: See Note "B" on "Typical Section B" sheet 19.

TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII
TYPICAL SECTION "E"
NUUANU PALI TUNNELS
PALI ROAD
PROJ. No. SEIG (5)
Scale: As noted June 1954

SHEET NO. 22 OF 42 SHEETS

5708.22

Type E

DATE	DESIGNED BY	CHECKED BY	QUANTITIES CHECKED BY	NOTED BY
5-17-54	W. C. G.	W. C. G.	W. C. G.	W. C. G.
5-18-54	W. C. G.	W. C. G.	W. C. G.	W. C. G.
5-19-54	W. C. G.	W. C. G.	W. C. G.	W. C. G.
5-20-54	W. C. G.	W. C. G.	W. C. G.	W. C. G.
5-21-54	W. C. G.	W. C. G.	W. C. G.	W. C. G.
5-22-54	W. C. G.	W. C. G.	W. C. G.	W. C. G.
5-23-54	W. C. G.	W. C. G.	W. C. G.	W. C. G.
5-24-54	W. C. G.	W. C. G.	W. C. G.	W. C. G.
5-25-54	W. C. G.	W. C. G.	W. C. G.	W. C. G.
5-26-54	W. C. G.	W. C. G.	W. C. G.	W. C. G.
5-27-54	W. C. G.	W. C. G.	W. C. G.	W. C. G.
5-28-54	W. C. G.	W. C. G.	W. C. G.	W. C. G.
5-29-54	W. C. G.	W. C. G.	W. C. G.	W. C. G.
5-30-54	W. C. G.	W. C. G.	W. C. G.	W. C. G.
5-31-54	W. C. G.	W. C. G.	W. C. G.	W. C. G.