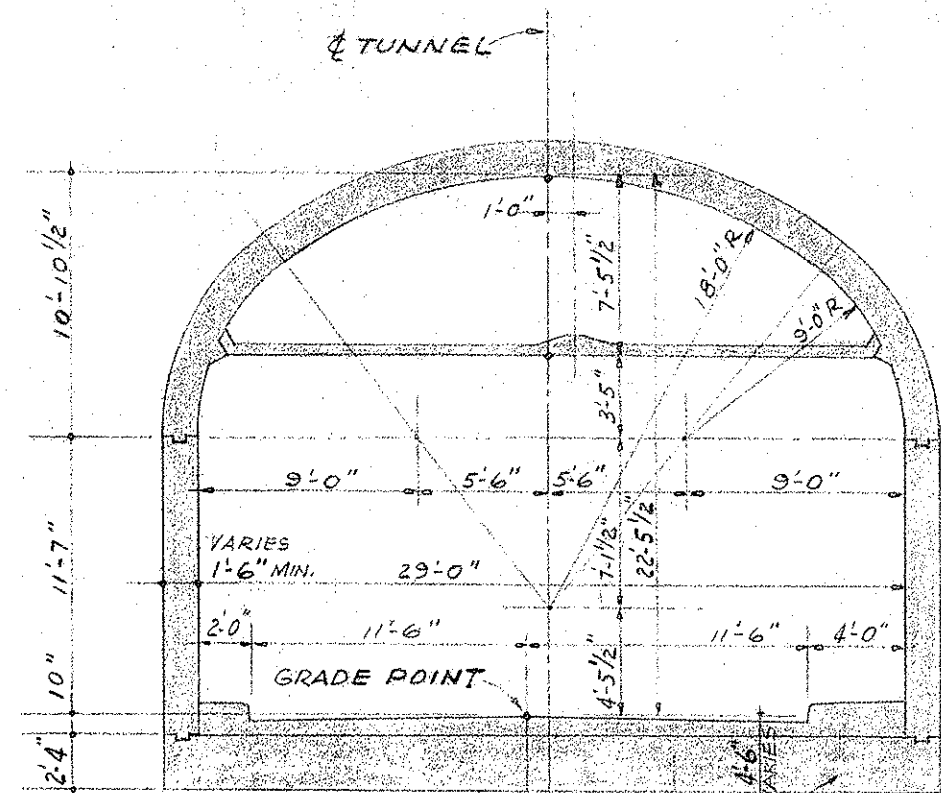


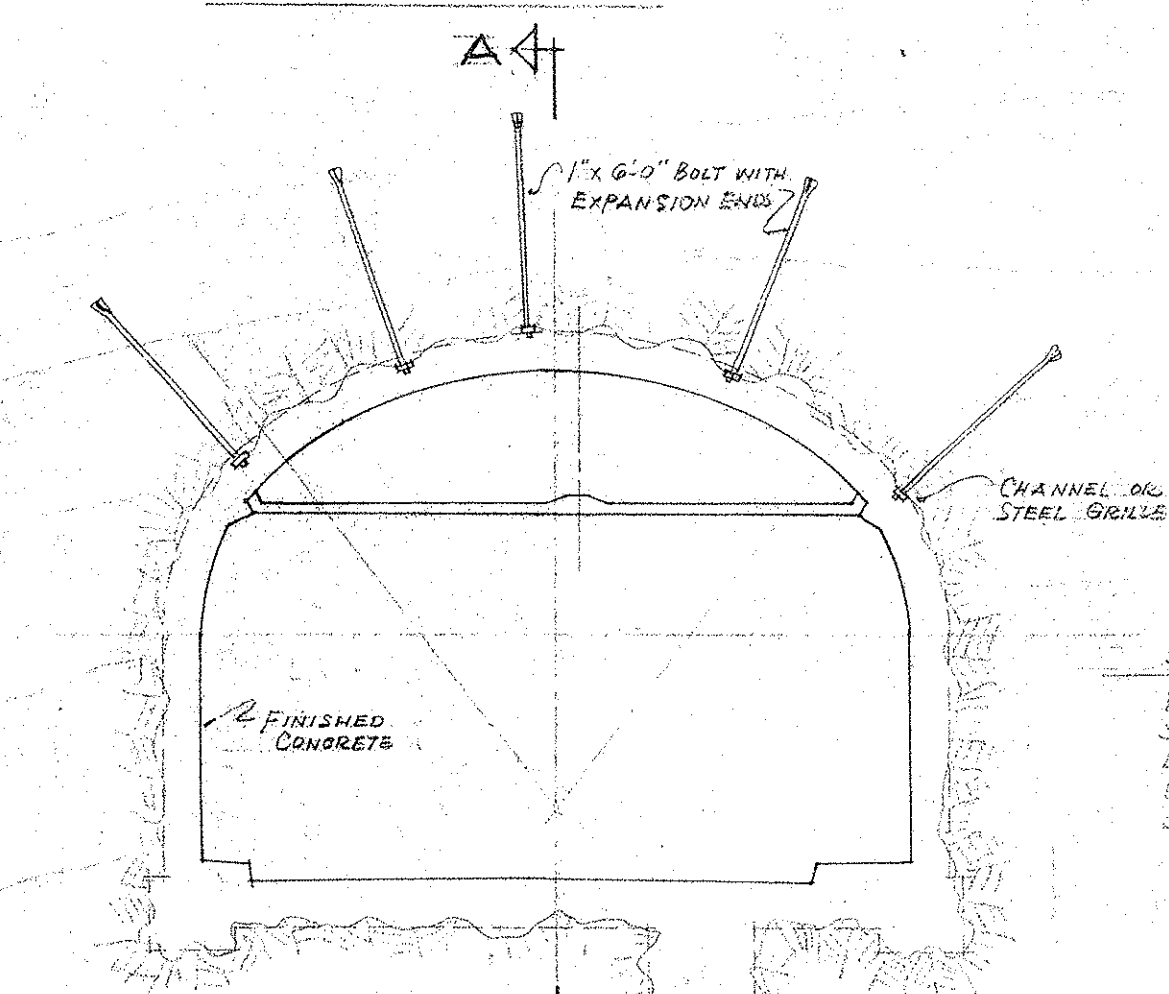
ALT. SECTION THRU FIRM GROUND

SCALE 1/8" = 1'-0"



ALT. SECTION THRU SOFT GROUND

SCALE 1/8" = 1'-0"



TUNNEL CROSS SEC. A-A

SCALE 1/8" = 1'-0"

STEEL GRILLES FOR ROOF BOLTING

WHERE FULL ARCH RIBS ARE NOT REQUIRED FOR SUPPORT, THE CONTRACTOR MAY SUBMIT ROOF BOLTING SKETCHES SIMILAR TO THE SECTION SHOWN OR OTHER METHODS FOR THE APPROVAL OF THE ENGINEER.

SECTION THRU ROCK LOOKING TOWARD KANEOHE PORTAL

SCALE 1/2" = 1'-0"

- NOTE:
1. ALL REINF. BARS TO BE INTERMEDIATE GRADE, NEW BILLET DEFORMED BARS.
 2. ALL CONCRETE FOR TUNNEL WALLS AND ARCH TO HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI AT TWENTY EIGHT DAYS.

SECTION THRU ROCK WHERE SUPPORT IS REQUIRED

SCALE 1/2" = 1'-0"

DEPARTMENT OF PUBLIC WORKS

CITY AND COUNTY OF HONOLULU

BUREAU OF PLANS

KALIHI TUNNEL

TUNNEL & SHAFT

TUNNEL SECTIONS

KANEOHE SIDE

ENGINEER: W. L. LUM, P.E.
DRAFTSMAN: R. B. LUM, P.E.
SCALE: AS NOTED
APPROVED: [Signature]
CHIEF ENGINEER

DATE: JULY 15, 1953
CHECKED BY: W. L. LUM, P.E.
TRACER: R. B. LUM
APPROVED: [Signature]
BUREAU ENGINEER

APPROVED: [Signature]
ENGINEER, KALIHI TUNNEL

SECTION C

JOB NO. 26-53

DWG. T-6