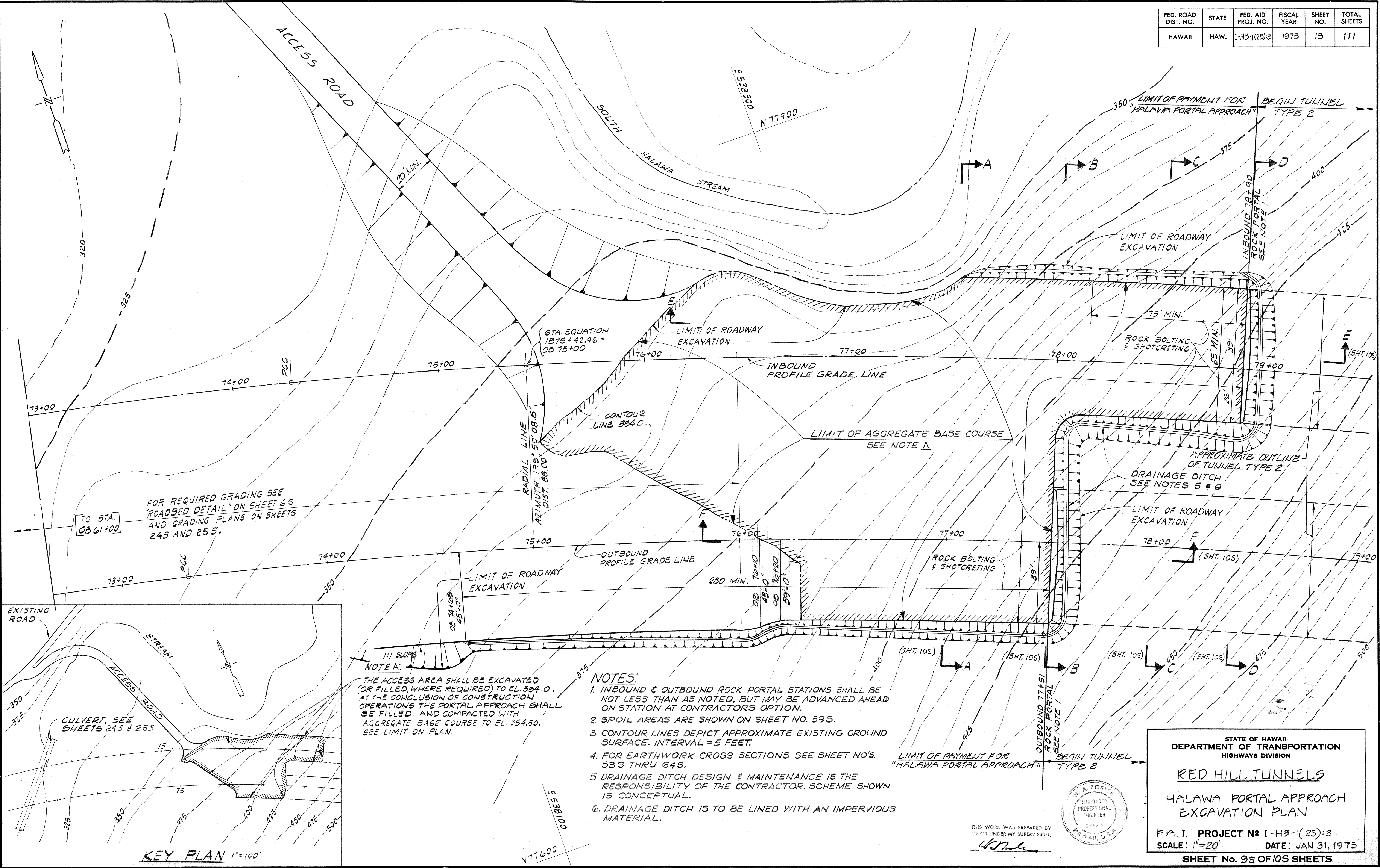


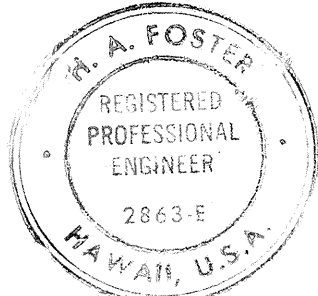
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	1-H3-1(25):3	1975	13	111



NOTE A:
THE ACCESS AREA SHALL BE EXCAVATED (OR FILLED, WHERE REQUIRED) TO EL. 354.0. AT THE CONCLUSION OF CONSTRUCTION OPERATIONS THE PORTAL APPROACH SHALL BE FILLED AND COMPACTED WITH AGGREGATE BASE COURSE TO EL. 354.50. SEE LIMIT ON PLAN.

- NOTES:
1. INBOUND & OUTBOUND ROCK PORTAL STATIONS SHALL BE NOT LESS THAN AS NOTED, BUT MAY BE ADVANCED AHEAD ON STATION AT CONTRACTOR'S OPTION.
 2. SPOIL AREAS ARE SHOWN ON SHEET NO. 39S.
 3. CONTOUR LINES DEPICT APPROXIMATE EXISTING GROUND SURFACE. INTERVAL = 5 FEET.
 4. FOR EARTHWORK CROSS SECTIONS SEE SHEET NO'S 53S THRU 64S.
 5. DRAINAGE DITCH DESIGN & MAINTENANCE IS THE RESPONSIBILITY OF THE CONTRACTOR. SCHEME SHOWN IS CONCEPTUAL.
 6. DRAINAGE DITCH IS TO BE LINED WITH AN IMPERVIOUS MATERIAL.

LIMIT OF PAYMENT FOR "HALAWA PORTAL APPROACH" TYPE 2



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

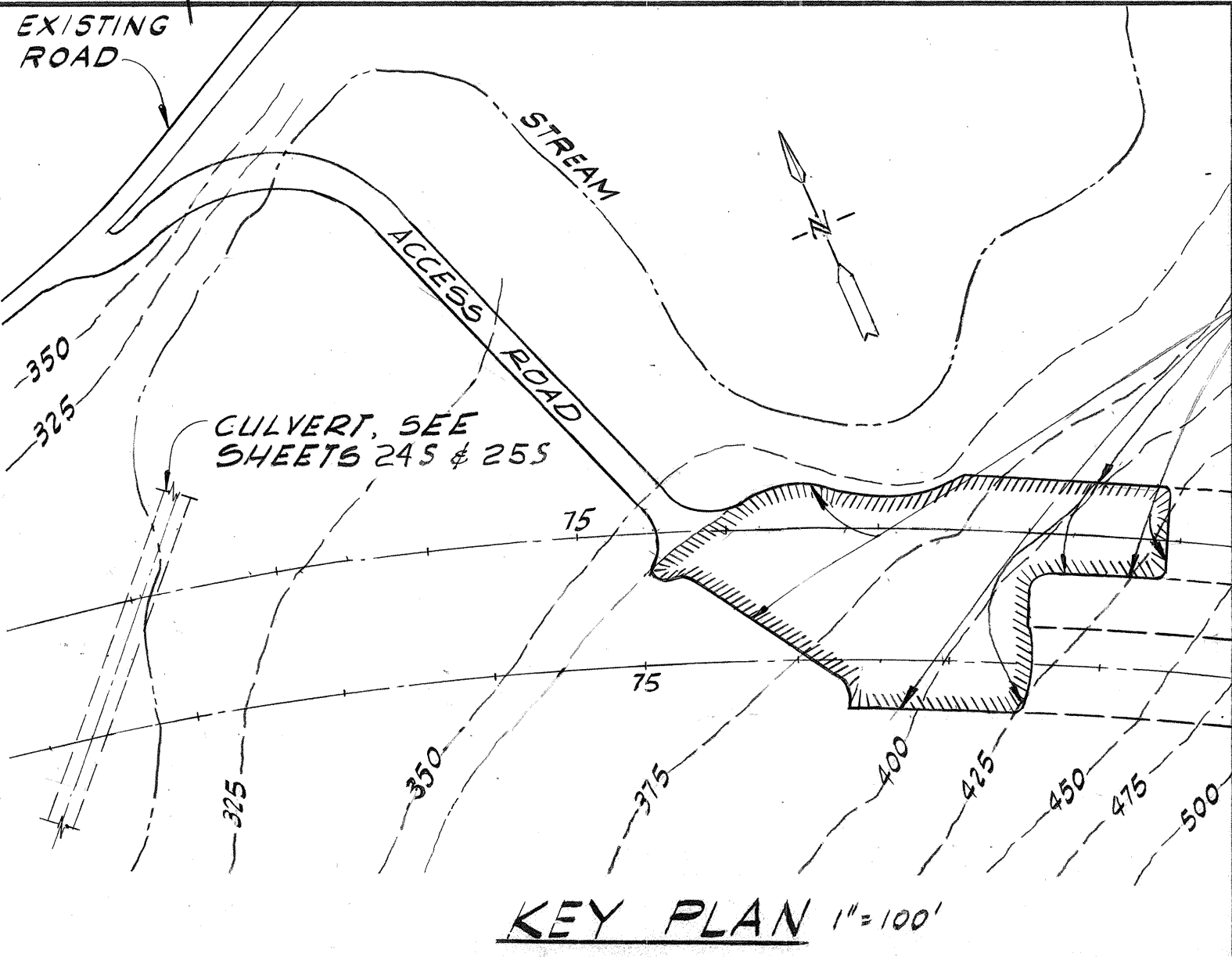
RED HILL TUNNELS

HALAWA PORTAL APPROACH
EXCAVATION PLAN

F.A.I. PROJECT NO 1-H3-1(25):3
SCALE: 1"=20' DATE: JAN 31, 1975

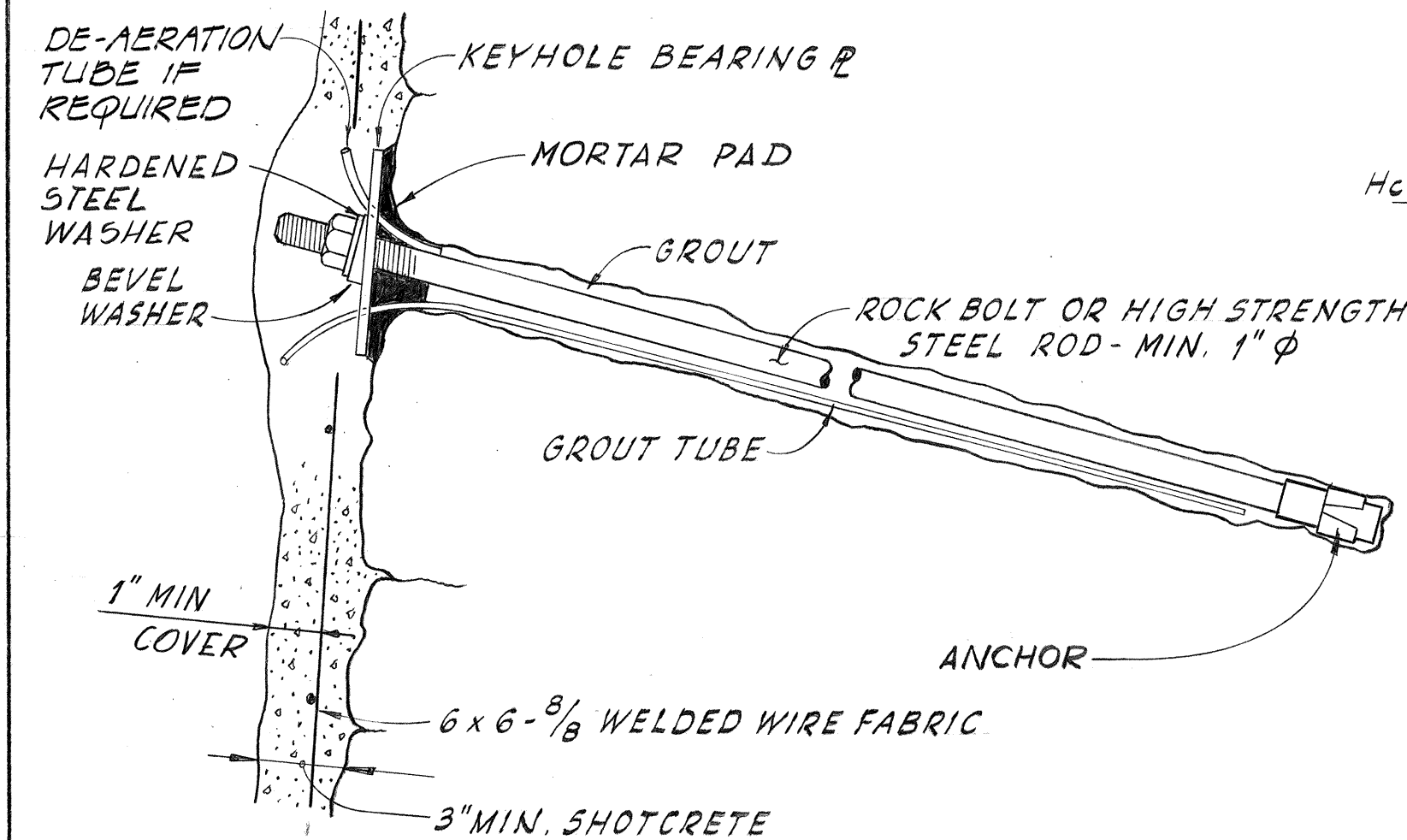
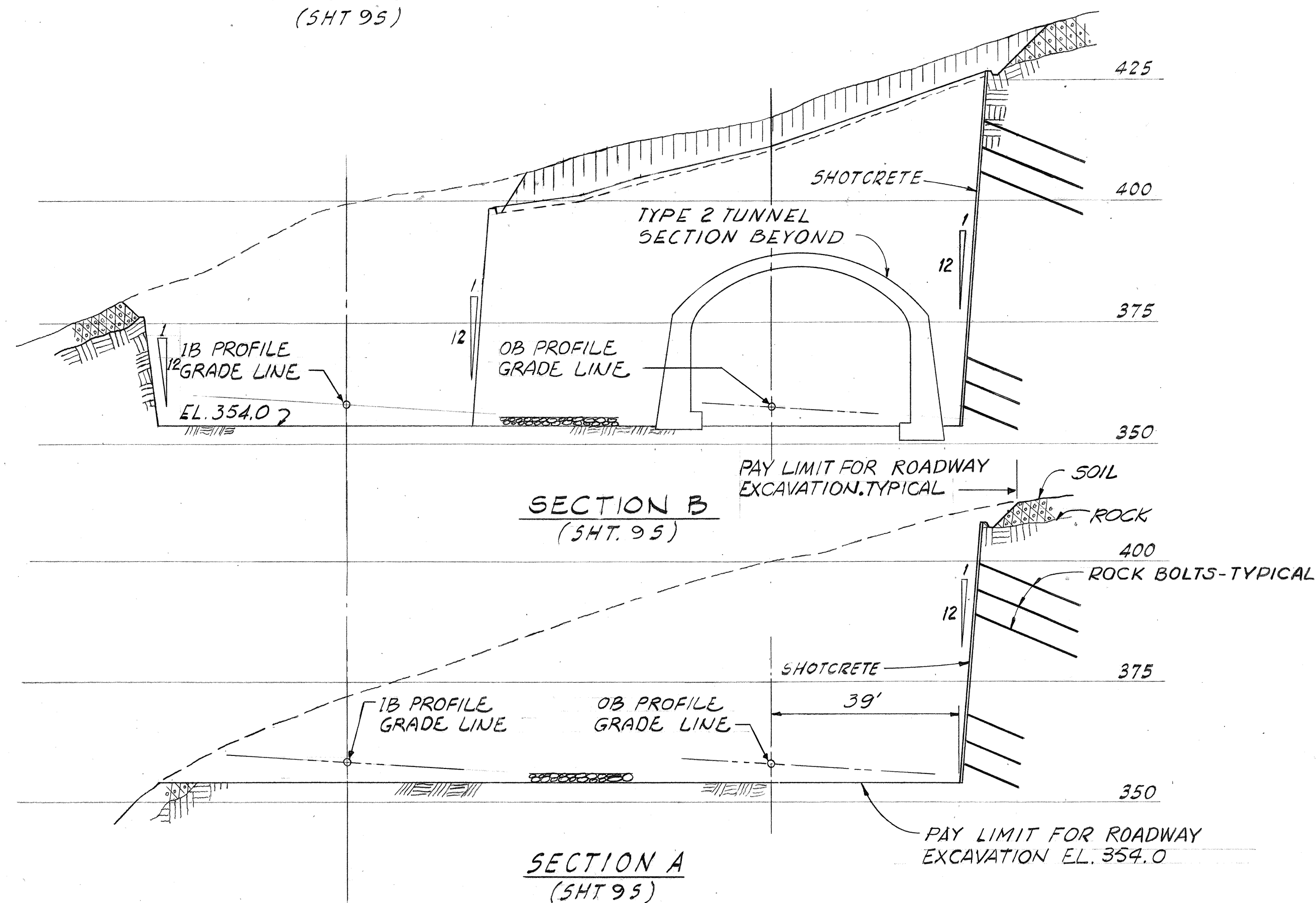
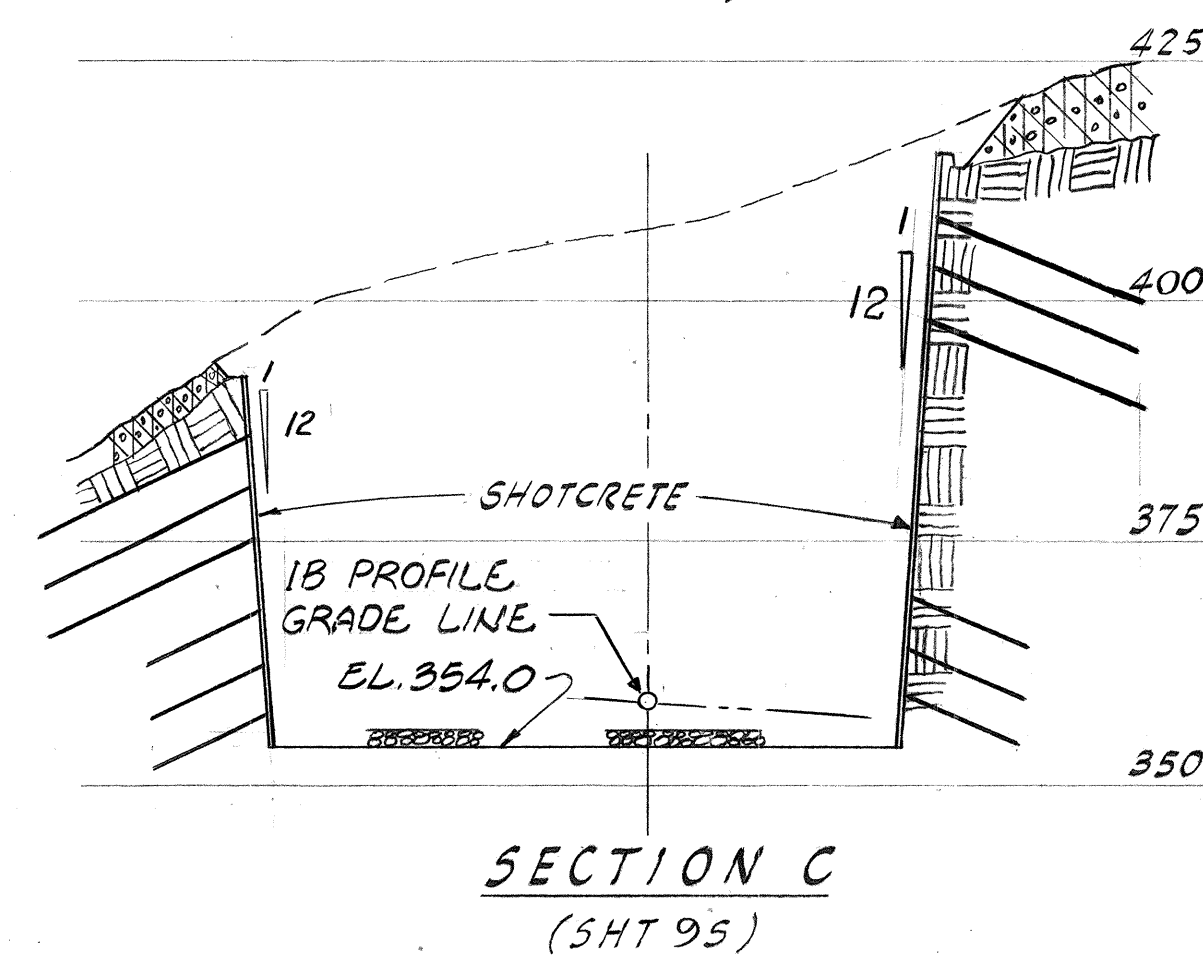
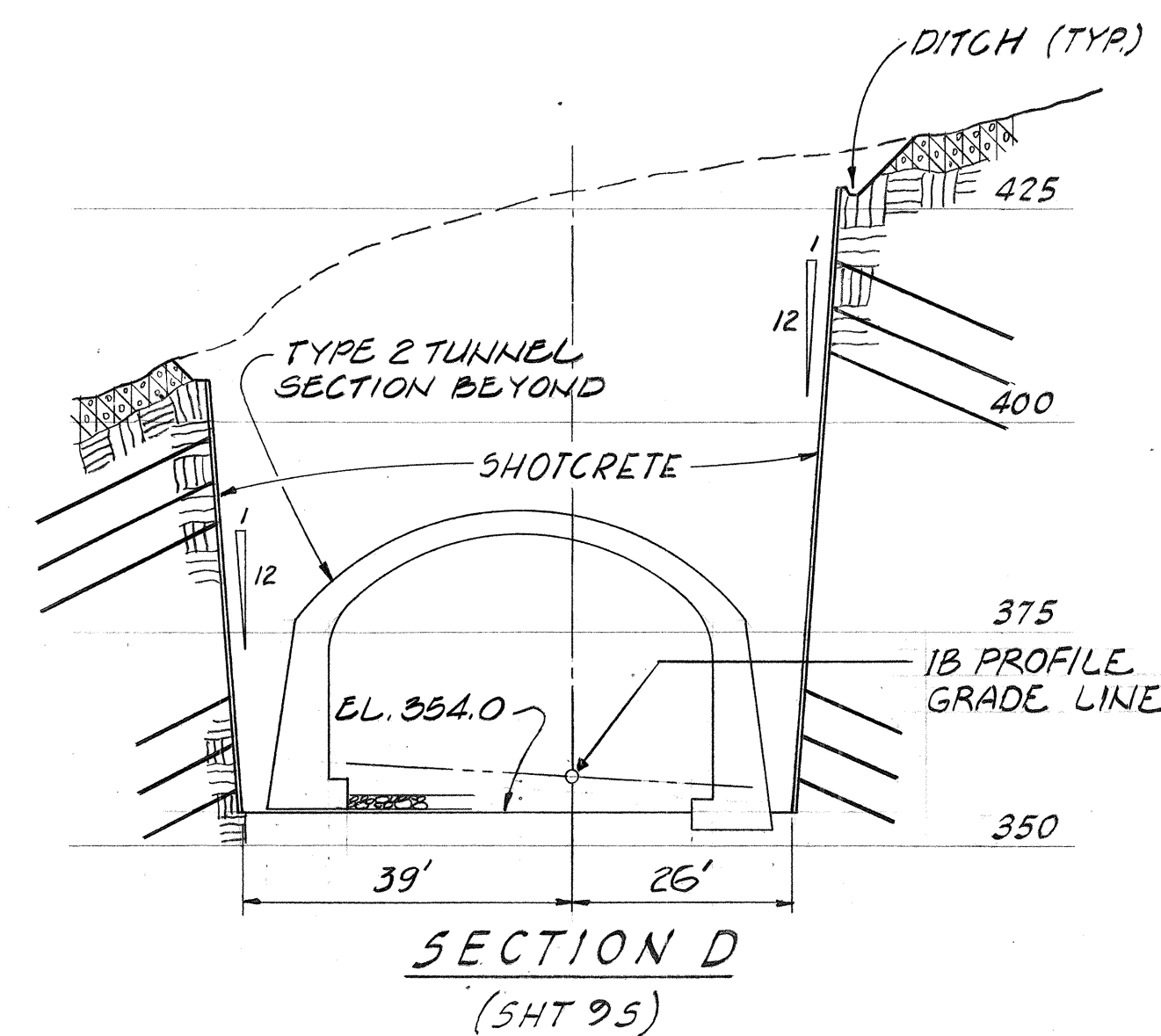
SHEET No. 9S OF 10S SHEETS

ORIGINAL PLAN	DATE	NOTES
DESIGNED BY: J.C. ELLIOTT	11/17/74	
TRACED BY: J.C. ELLIOTT	11/17/74	
CHECKED BY: J.C. ELLIOTT	11/17/74	
DESIGNED BY: J.C. ELLIOTT	11/17/74	
TRACED BY: J.C. ELLIOTT	11/17/74	
CHECKED BY: J.C. ELLIOTT	11/17/74	



ROCK BOLT REINFORCEMENT PORTAL APPROACHES BASIS FOR PROPOSAL QUANTITIES

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(25):3	1975	14	111



DETAIL 1
NO SCALE

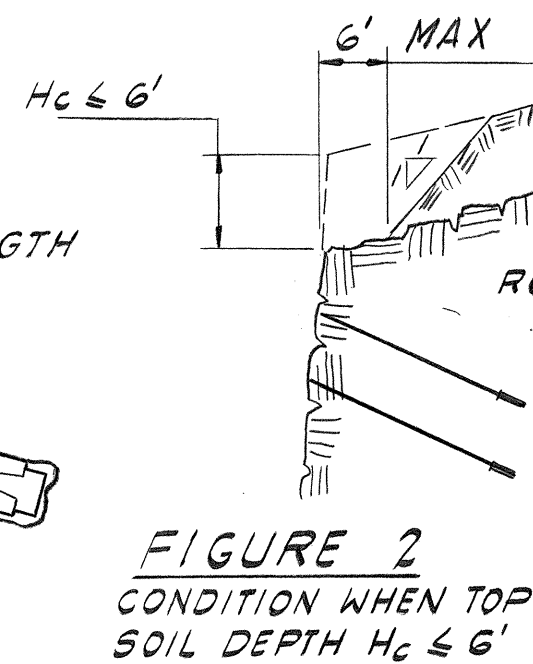


FIGURE 2
CONDITION WHEN TOP
SOIL DEPTH $H_c \leq 6'$

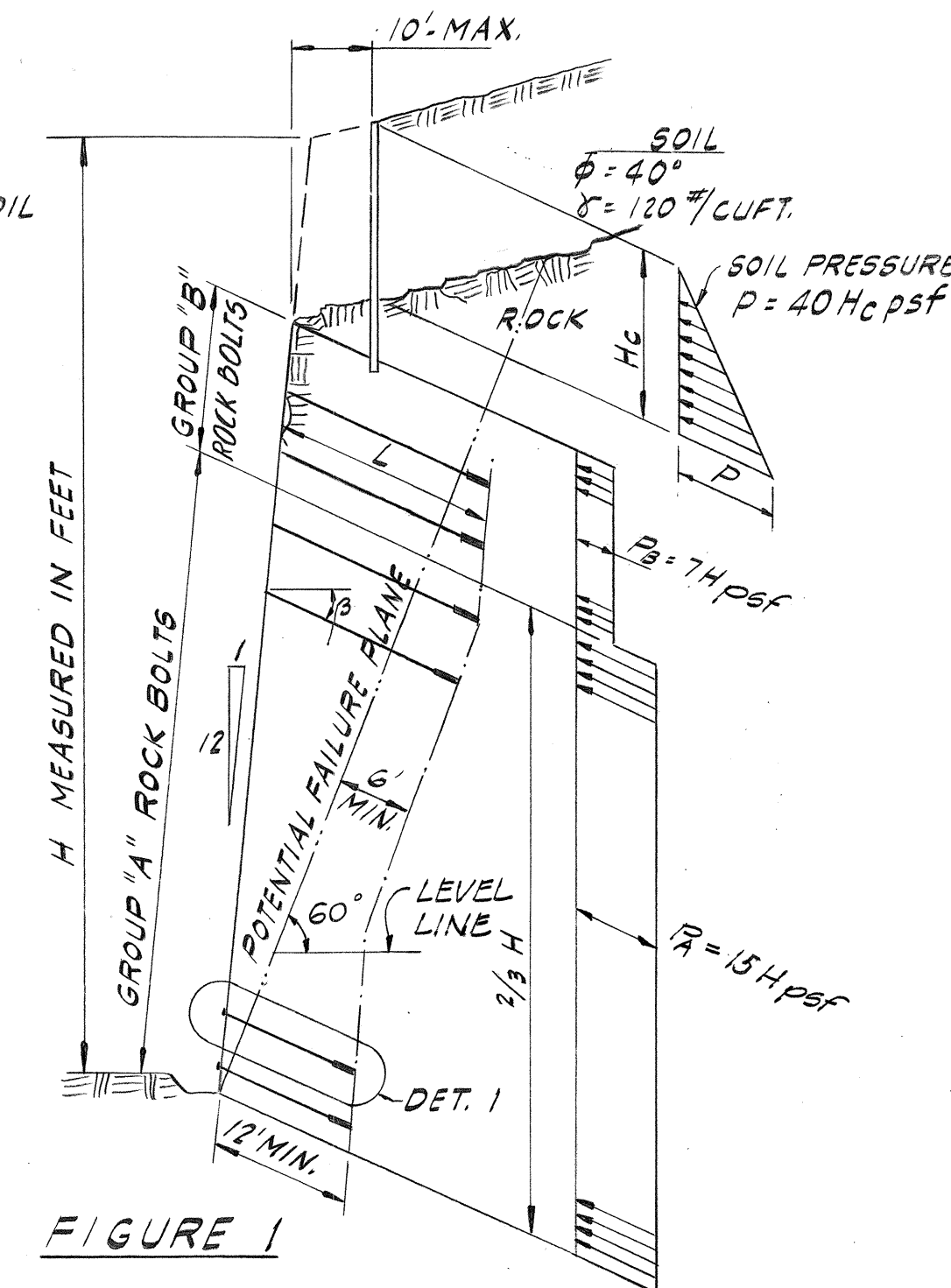
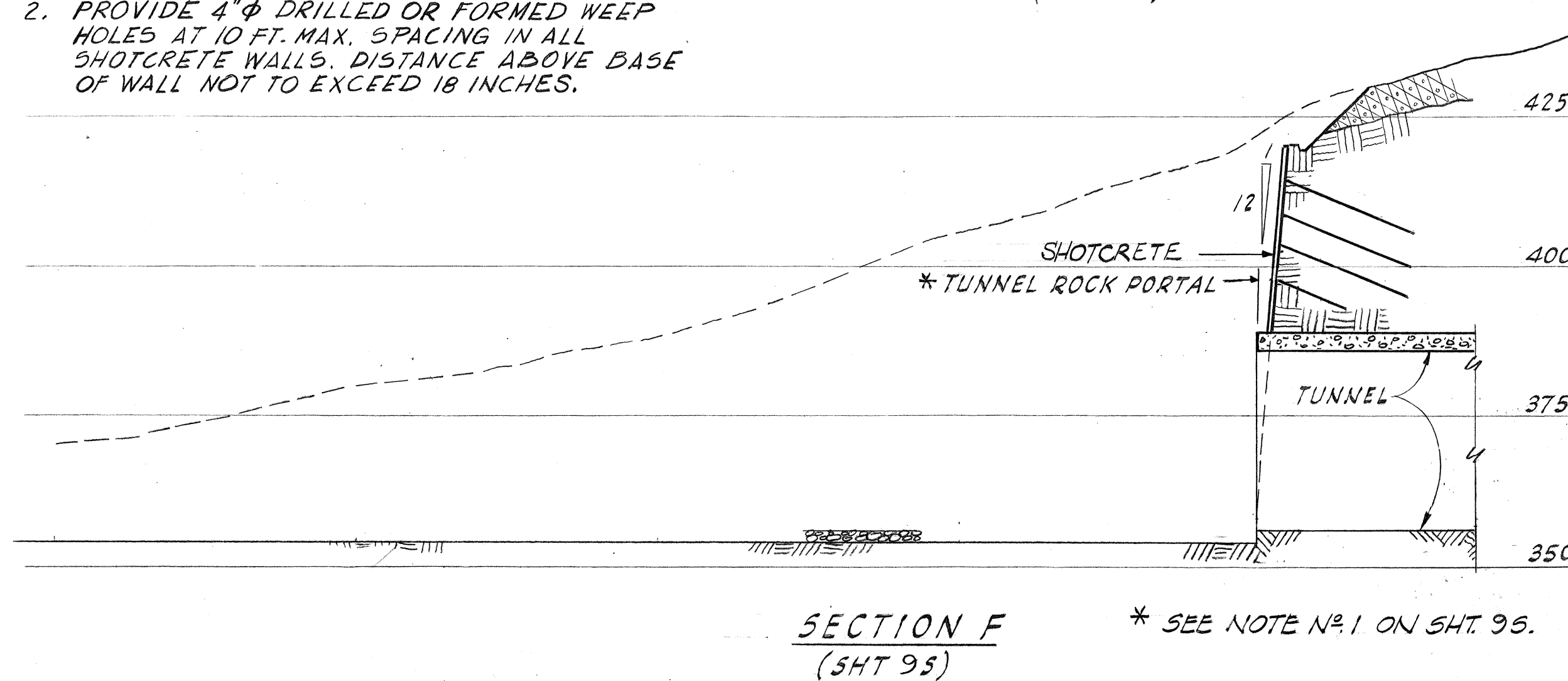


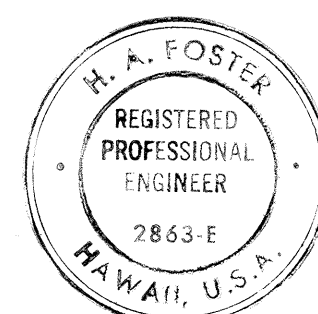
FIGURE 1

- NOTES
1. LIMITS OF SOIL & ROCK AS SHOWN ARE APPROXIMATE
 2. PROVIDE 4" ϕ DRILLED OR FORMED WEEP HOLES AT 10 FT. MAX. SPACING IN ALL SHOTCRETE WALLS. DISTANCE ABOVE BASE OF WALL NOT TO EXCEED 18 INCHES.

SECTION E
(SHT 95)



SECTION F
(SHT 95)



THIS WORK WAS PREPARED BY
ME OR UNDER MY SUPERVISION.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
RED HILL TUNNELS
HALAWA PORTAL APPROACH
EXCAVATION DETAILS

F.A.I. PROJECT N° I-H3-1(25):3
SCALE: 1" = 20'-0" DATE: JAN 31, 1975
SHEET No. 105 OF 105 SHEETS

ORIGINAL PLAN	DATE
DESIGNED BY	1-17-75
TRACED BY	1-17-75
NOTED BY	1-17-75
CHECKED BY	1-17-75