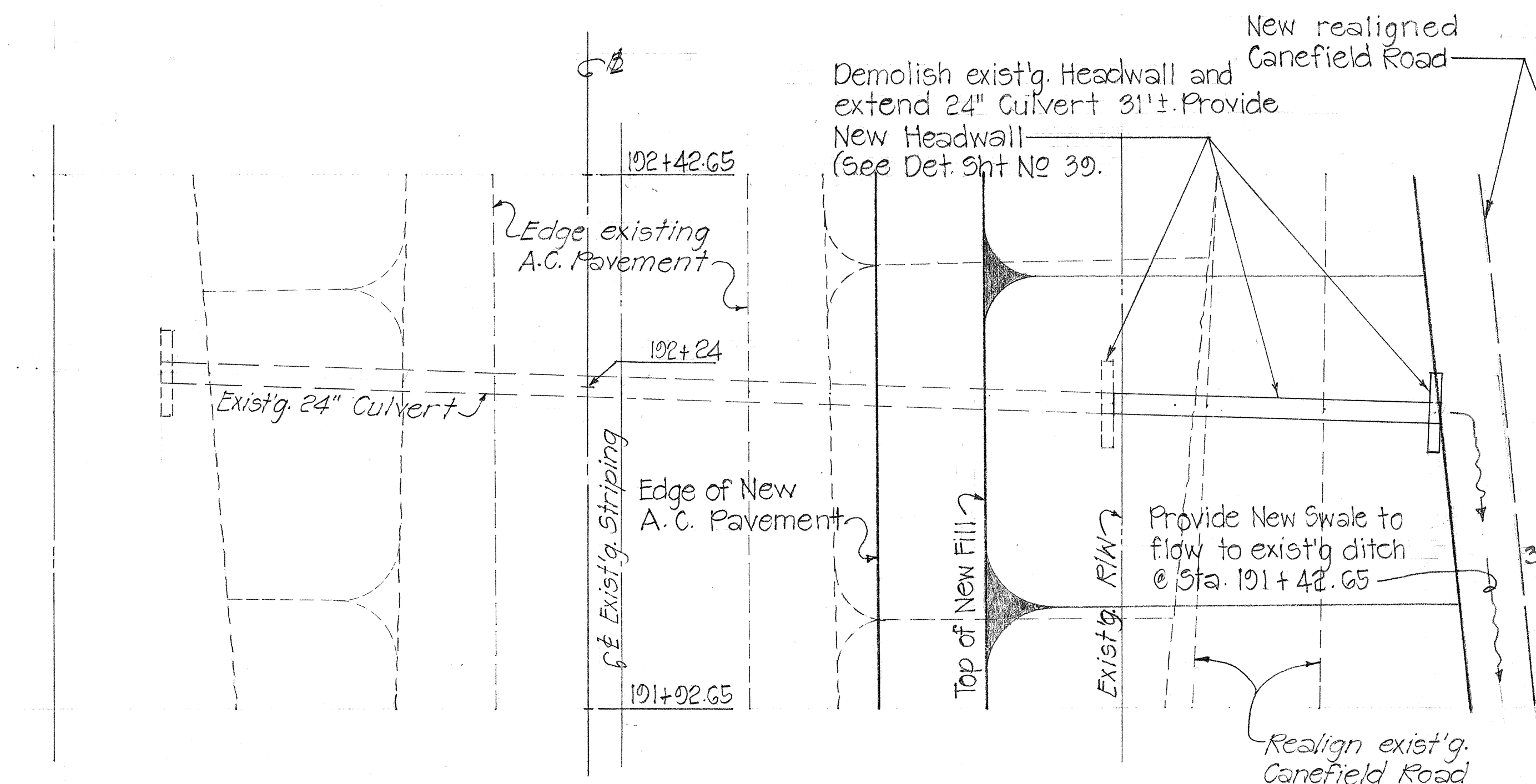


DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	50CD-01-70	1974	32	49



PLAN EAST OMAO - CULVERT EXTENSION @ STA. 102+24 Rt.

Scale: 1" = 10'

ESTIMATED QUANTITIES

24" Culvert 31± L.F.
Struct. Exc. 14 c.y.
Concrete 3 c.y.
Bed Course Material 23 c.y.
Reinforcing Steel 42 lb.

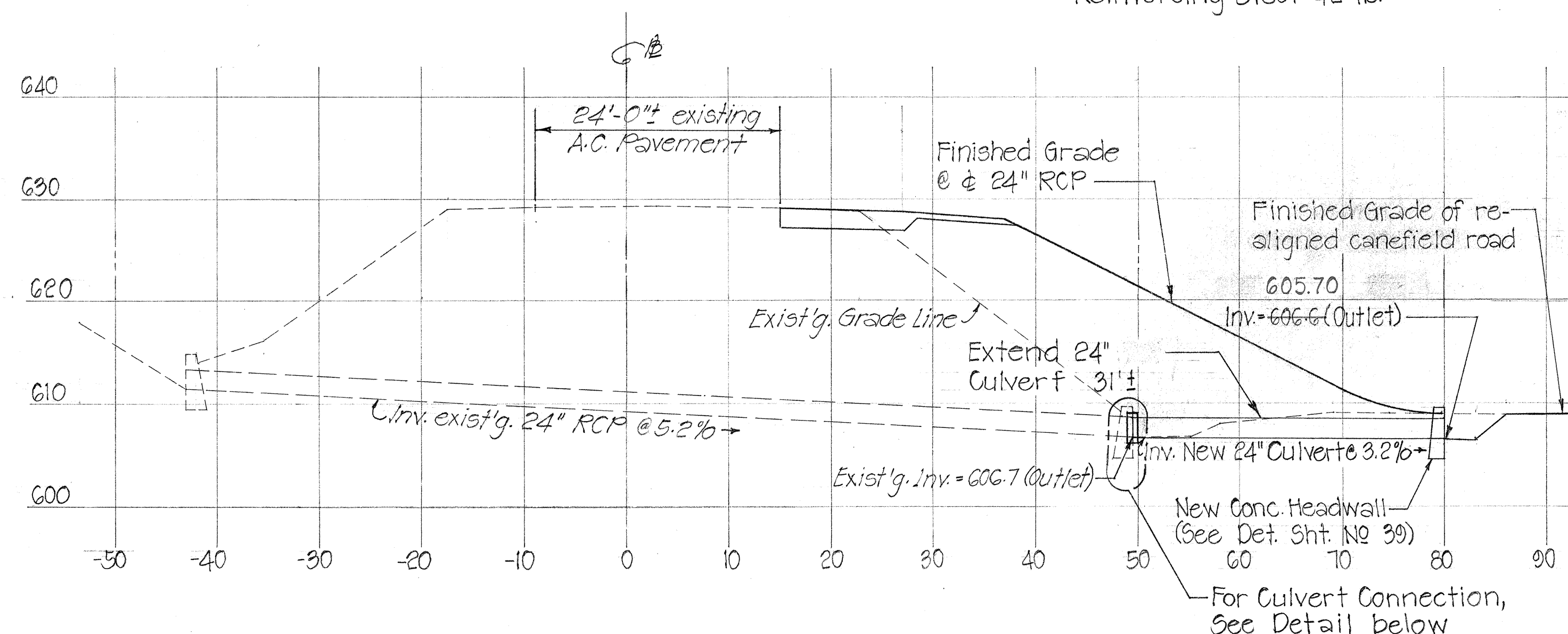
Provide New 30" Culvert 63'± w/ Conc. Headwall at both ends. Inv. Elev. = 644.67 (Inlet) (See Det. Sheet No. 39).
Reconstruct A.C. Pav't. w/ 3 1/4" A.C. Mix V surface, 2 1/4" A.C. Mix III binder, 7" Aggregate base course, 12" Aggregate subbase course, and 10' wide shoulder of 6" Aggregate subbase w/ seal coat.

EST. QUANT. NEW 30" CULVERT @ STA. 100+83.65
30" Culvert 63± L.F.
Struct. Exc. 50 c.y.
Concrete 4 c.y.
Reinforcing Steel 104 lb.
Bed Course Material 6 c.y.
A.C. Pav't. Mix V 2 ton
A.C. Pav't. Mix III 3 ton
Aggregate Base Course 3 c.y.
Aggregate Subbase Course 5 c.y.

PLAN EAST OMAO - CULVERT EXTENSION @ STA. 100+92.65 Rt. AND NEW 30" CULVERT @ STA. 100+83.65

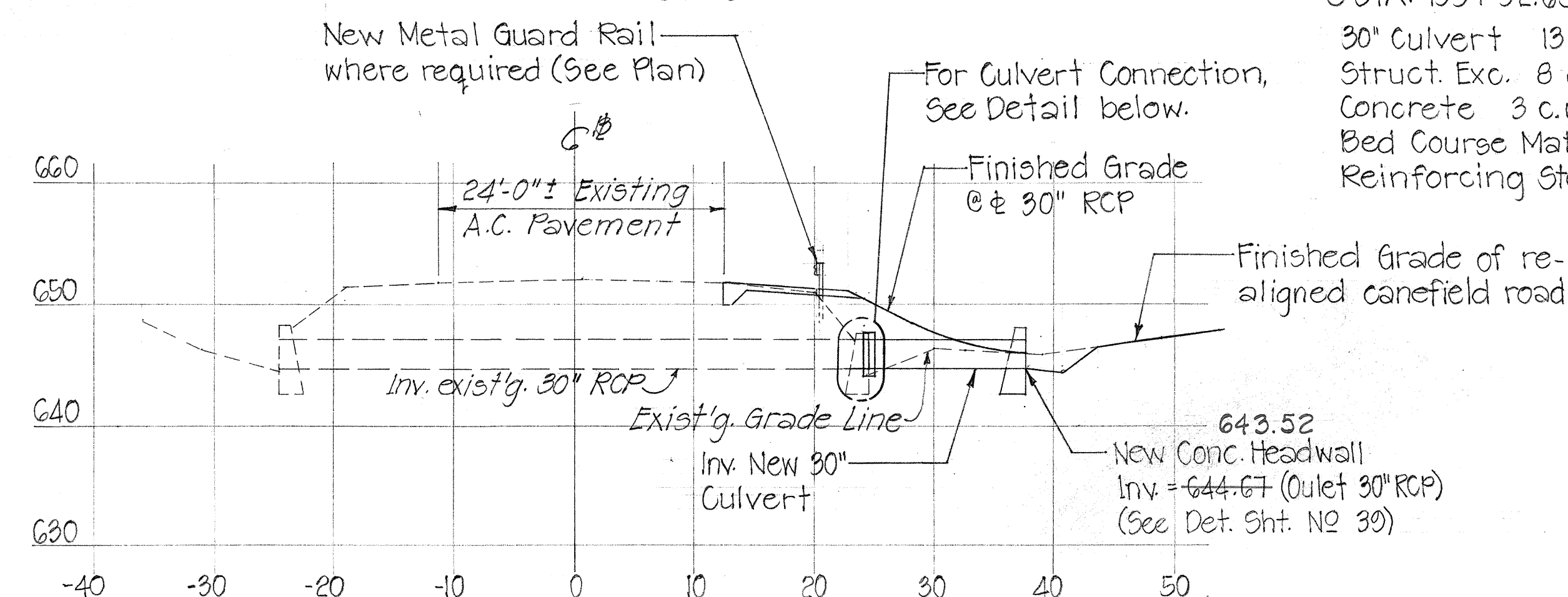
Scale: 1" = 10'

EST. QUANT. CULVERT EXTENSION @ STA. 100+92.65 Rt.
30" Culvert 13± L.F.
Struct. Exc. 8 c.y.
Concrete 3 c.y.
Bed Course Material 1.2 c.y.
Reinforcing Steel 52 lb.



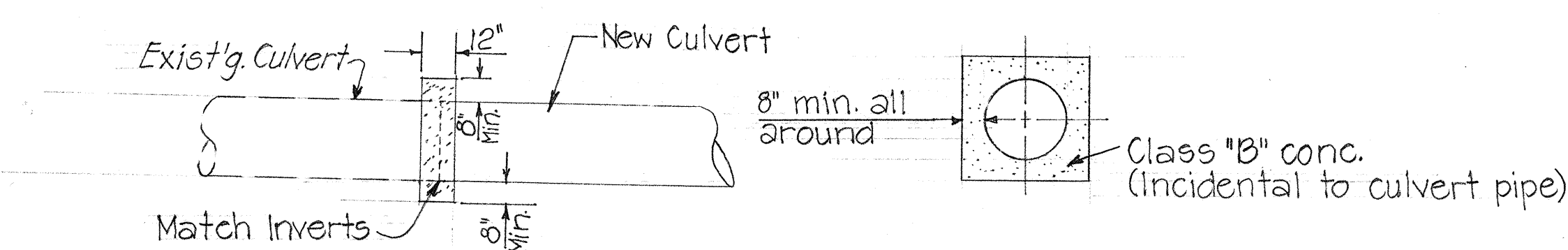
PROFILE EAST OMAO - CULVERT EXTENSION @ STA. 102+24 Rt.

Scales: Horiz. 1" = 10'
Vert. 1" = 10'

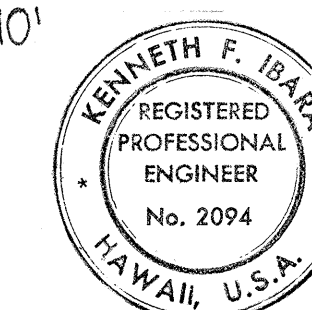


PROFILE EAST OMAO - CULVERT EXTENSION @ STA. 100+92.65 Rt.

Scales: Horiz. 1" = 10'
Vert. 1" = 10'



ELEVATION SECTION
TYP. DETAIL FOR CULVERT EXTENSION CONC. JACKET Scale: 1/4" = 1' = 0"



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.
Kenneth F. Shara
2/13/73

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
DETAILS OF CULVERT EXTENSIONS
EAST OMAO SECTION
TRUCK CLIMBING LANES AT THREE LOCATIONS (WAHIAWA, LAWA, AND OMAO VALLEYS)
PROJ. NO. 50 CD-01-70
SHEET No. OF SHEETS