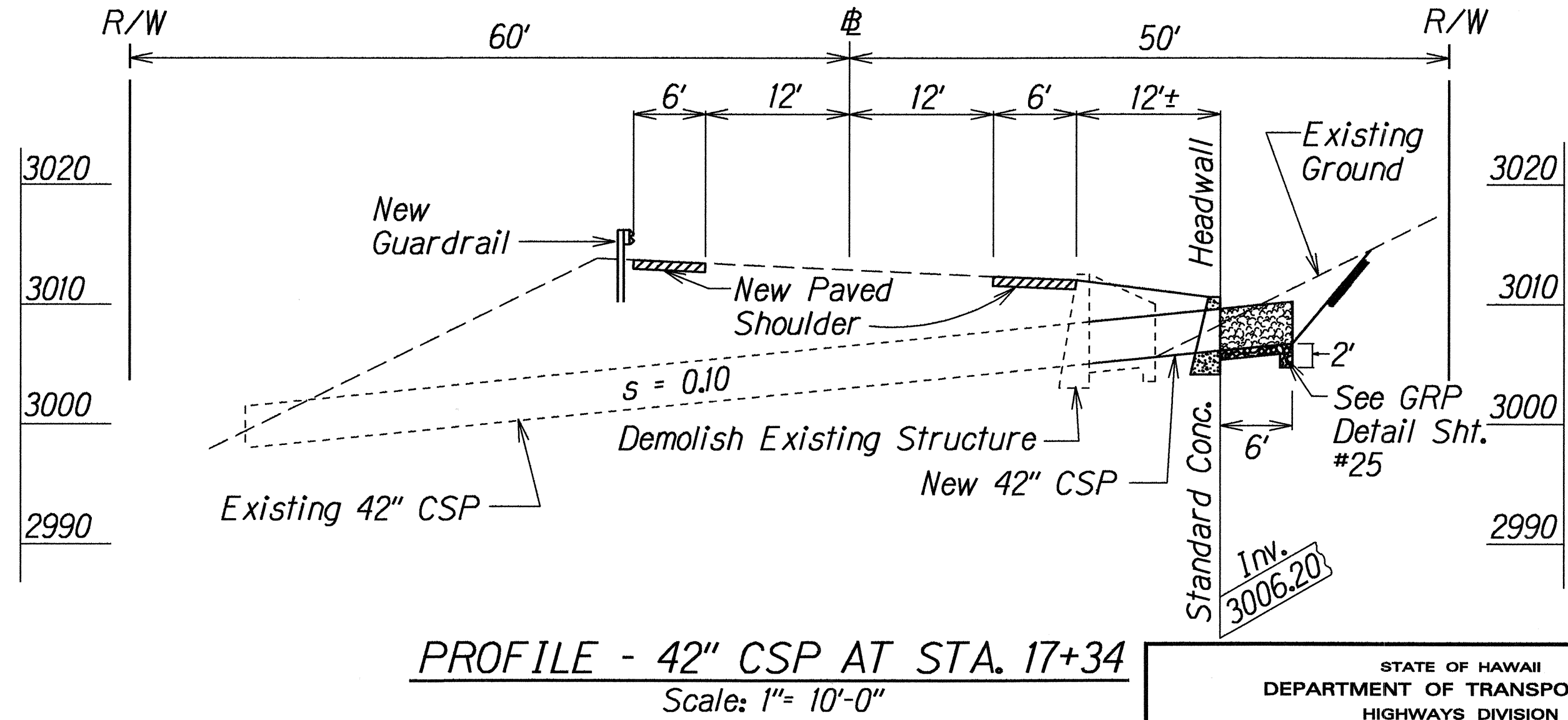
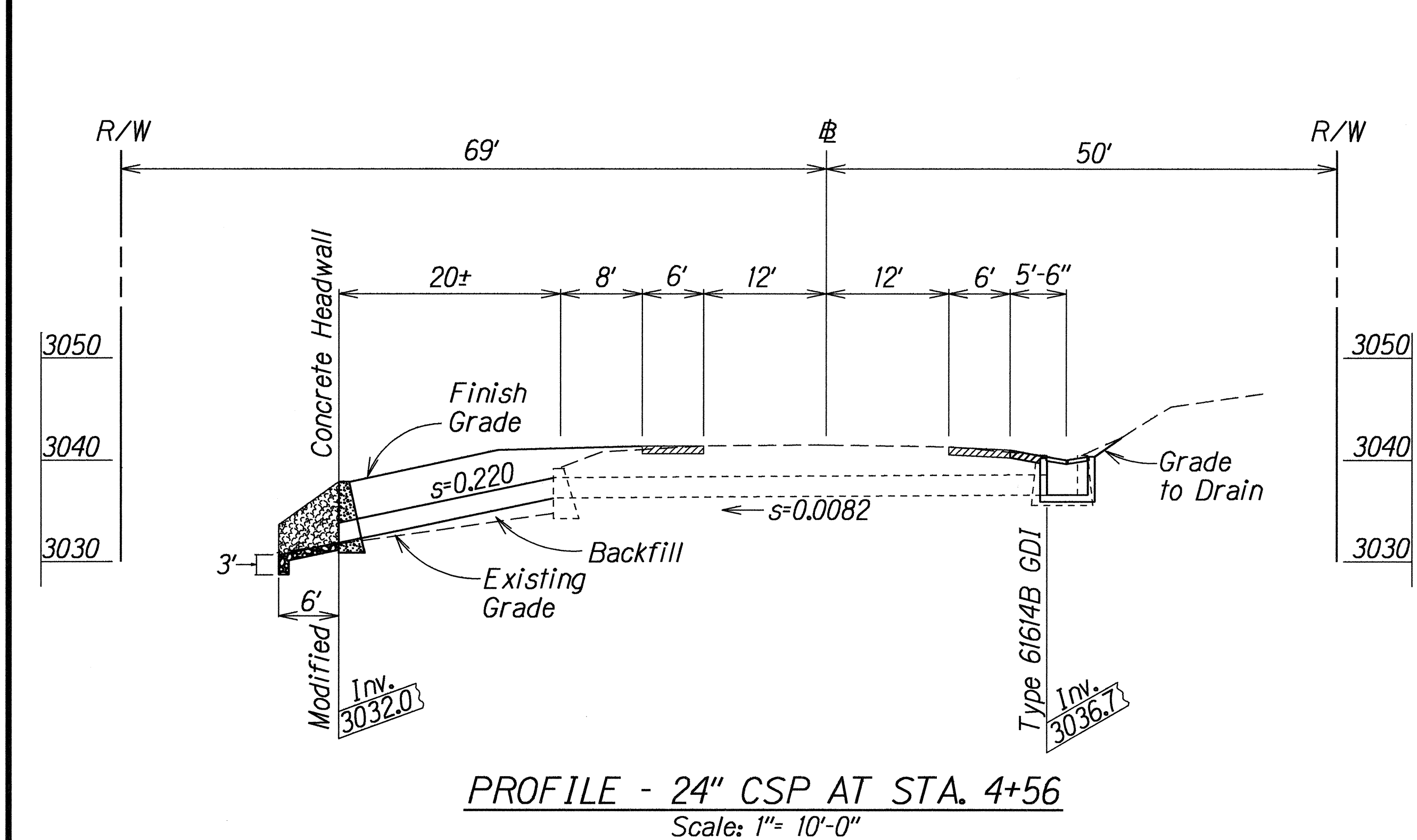
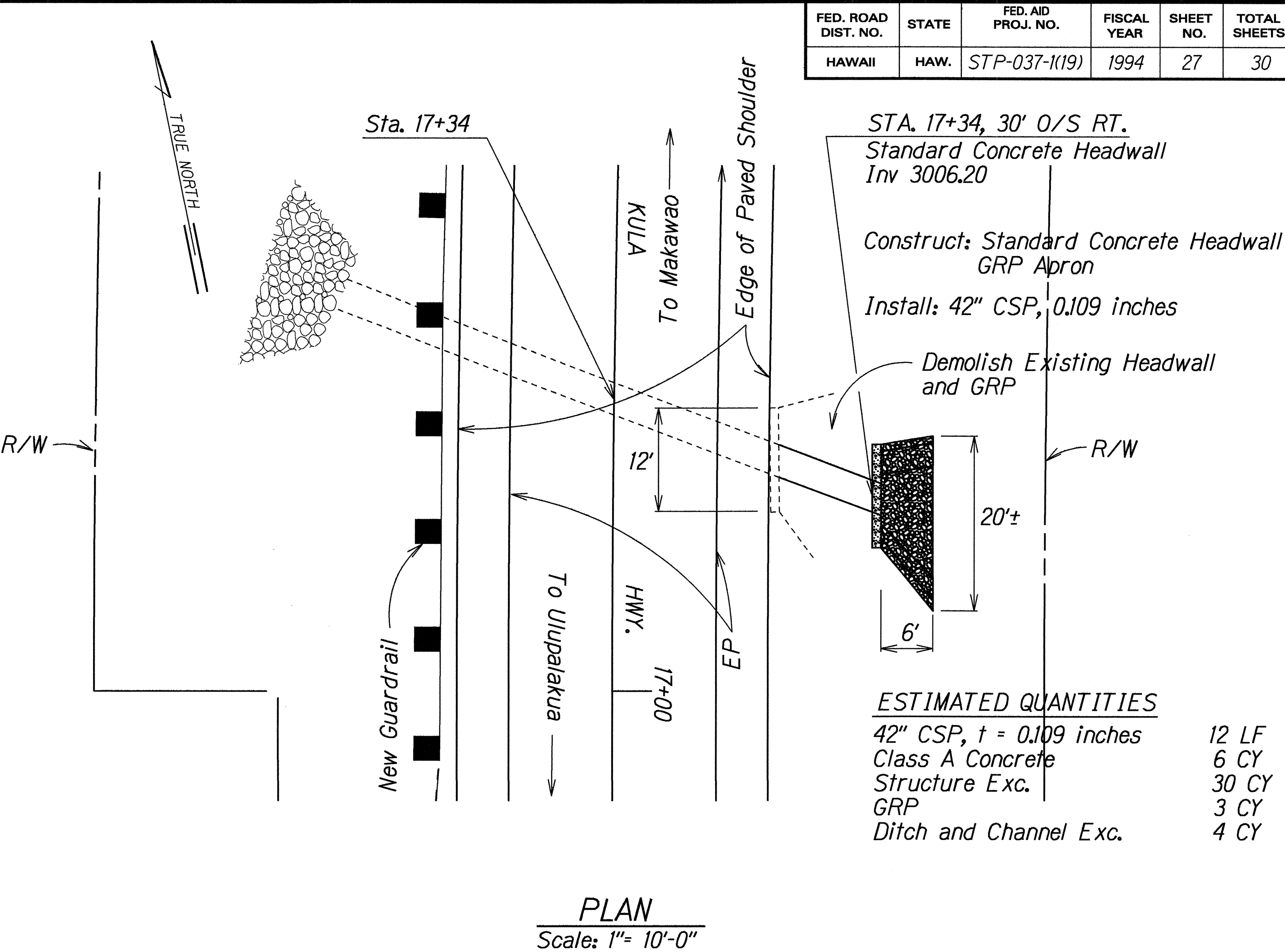
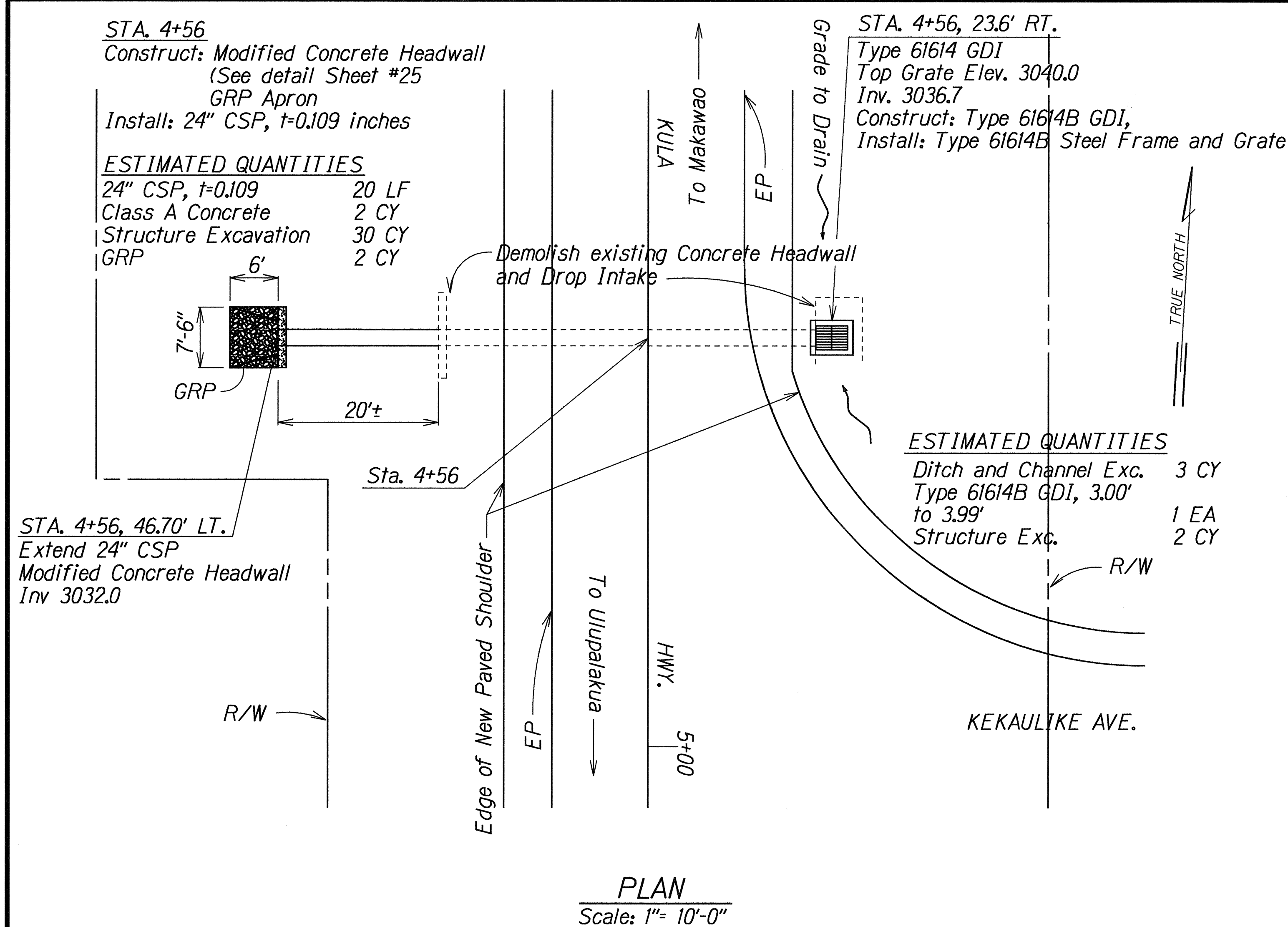


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-037-1(19)	1994	27	30



ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTED	DRAWN BY	12-29-94
DESIGNED BY	CHECKED BY	
QUANTITIES BY		
CHECKED BY		

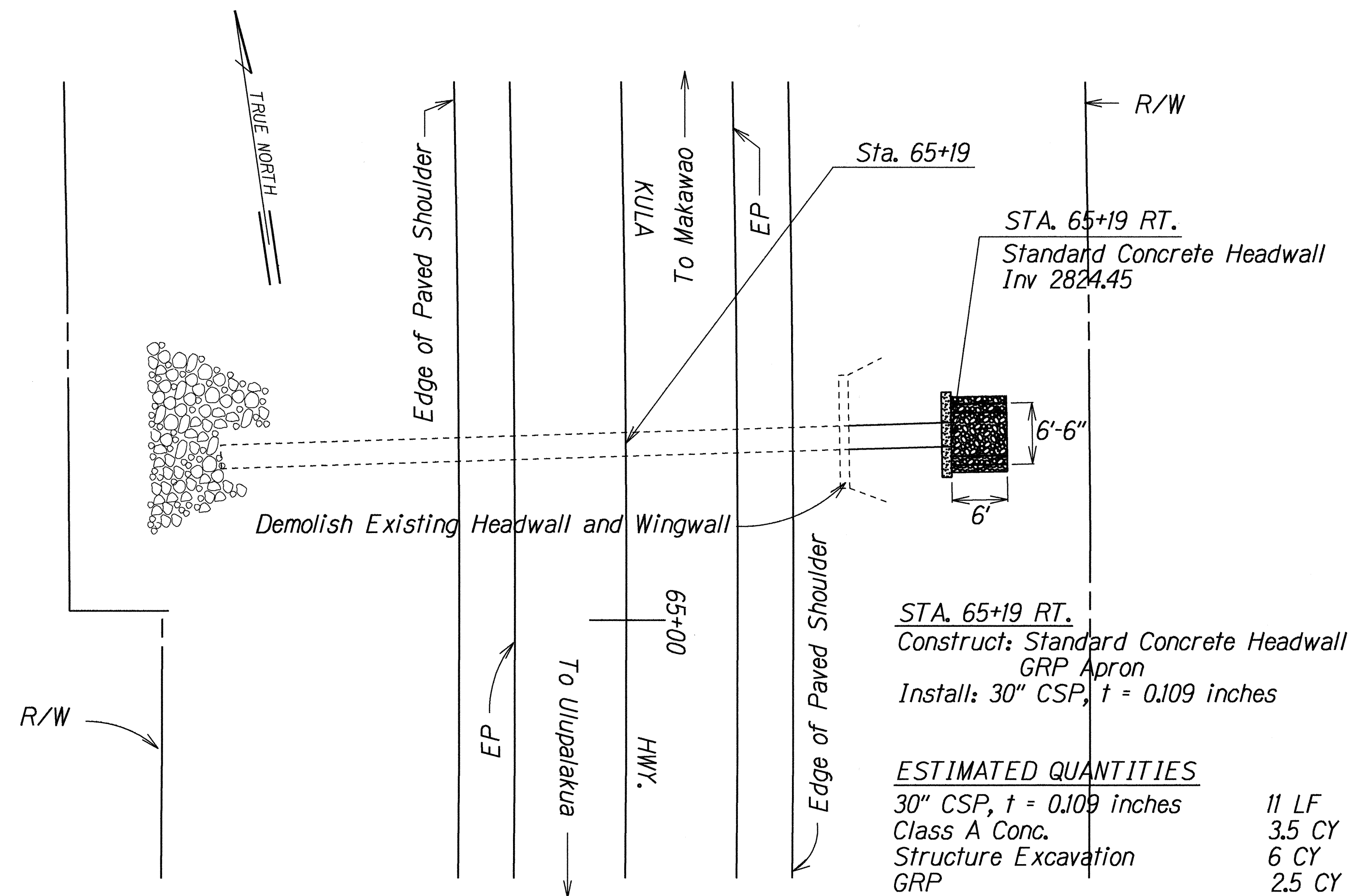
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DRAINAGE PLAN

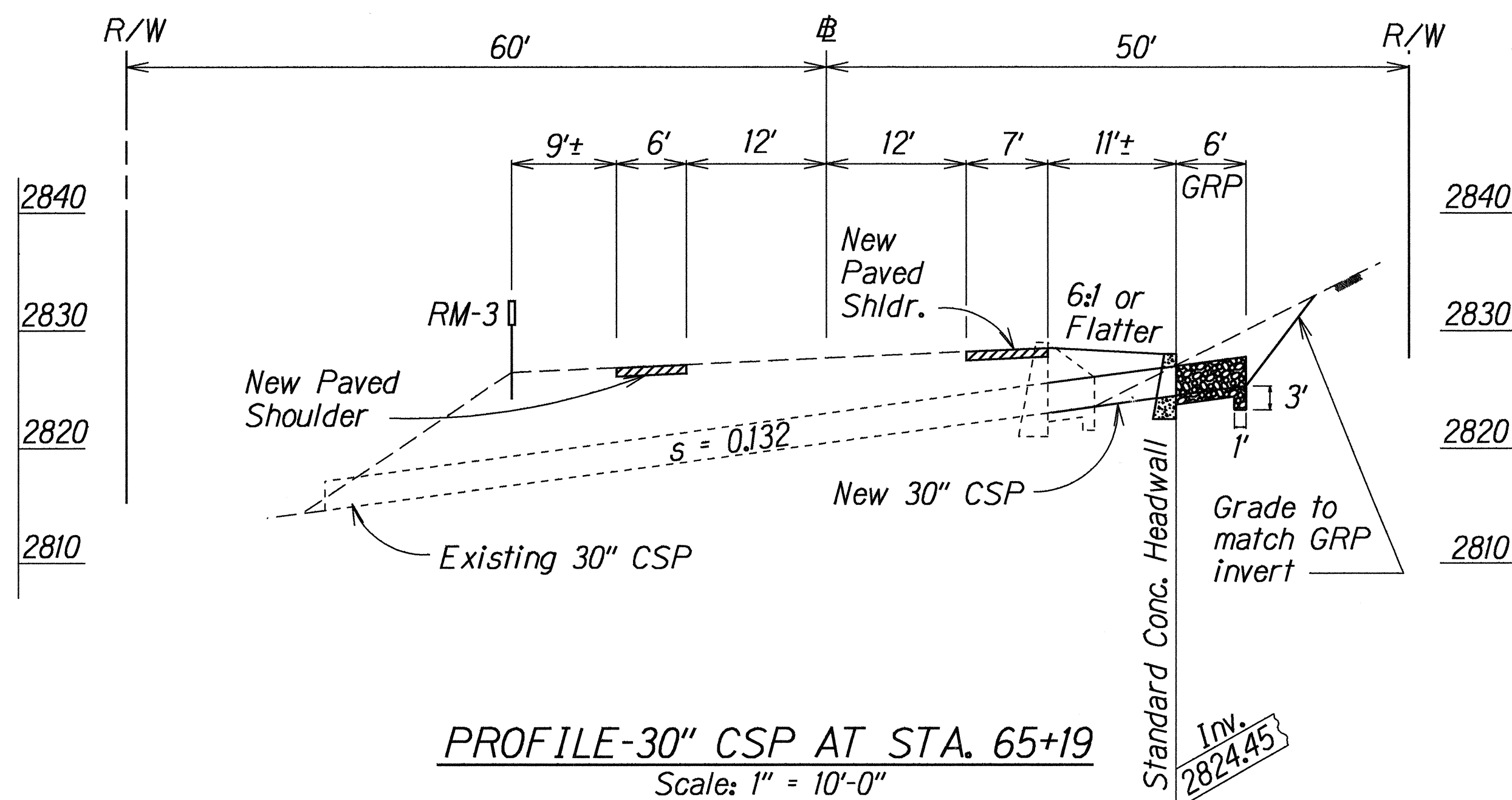
KULA HIGHWAY
GUARDRAIL & SHOULDER IMPROVEMENTS
Vicinity of Kekaulike Ave. to Lower Kula Rd.
Fed. Aid Proj. No. STP-037-1(19)
Scale: 1" = 10' Date: March, 1994

SHEET No. 1 OF 4 SHEETS

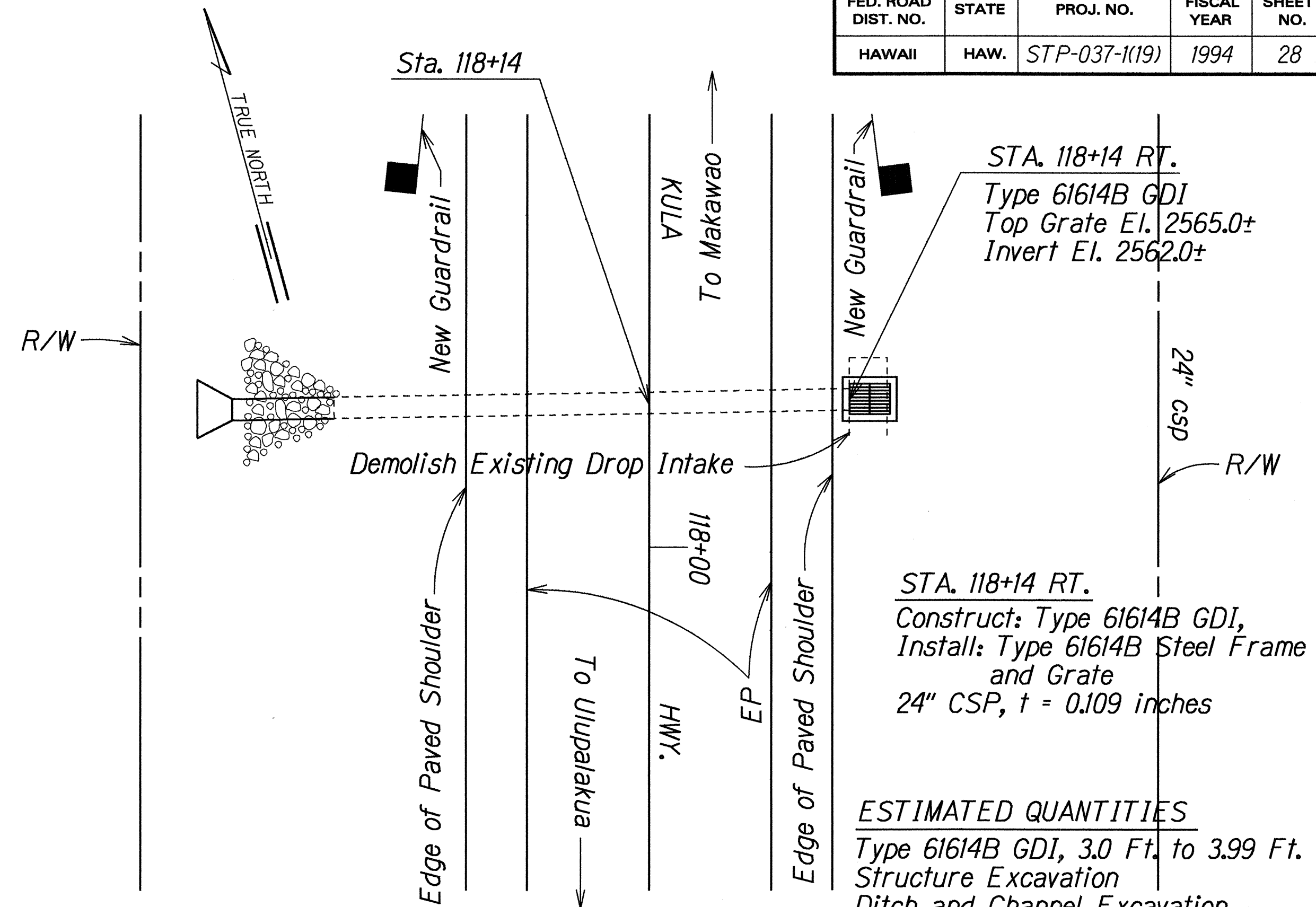
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-037-1(19)	1994	28	30



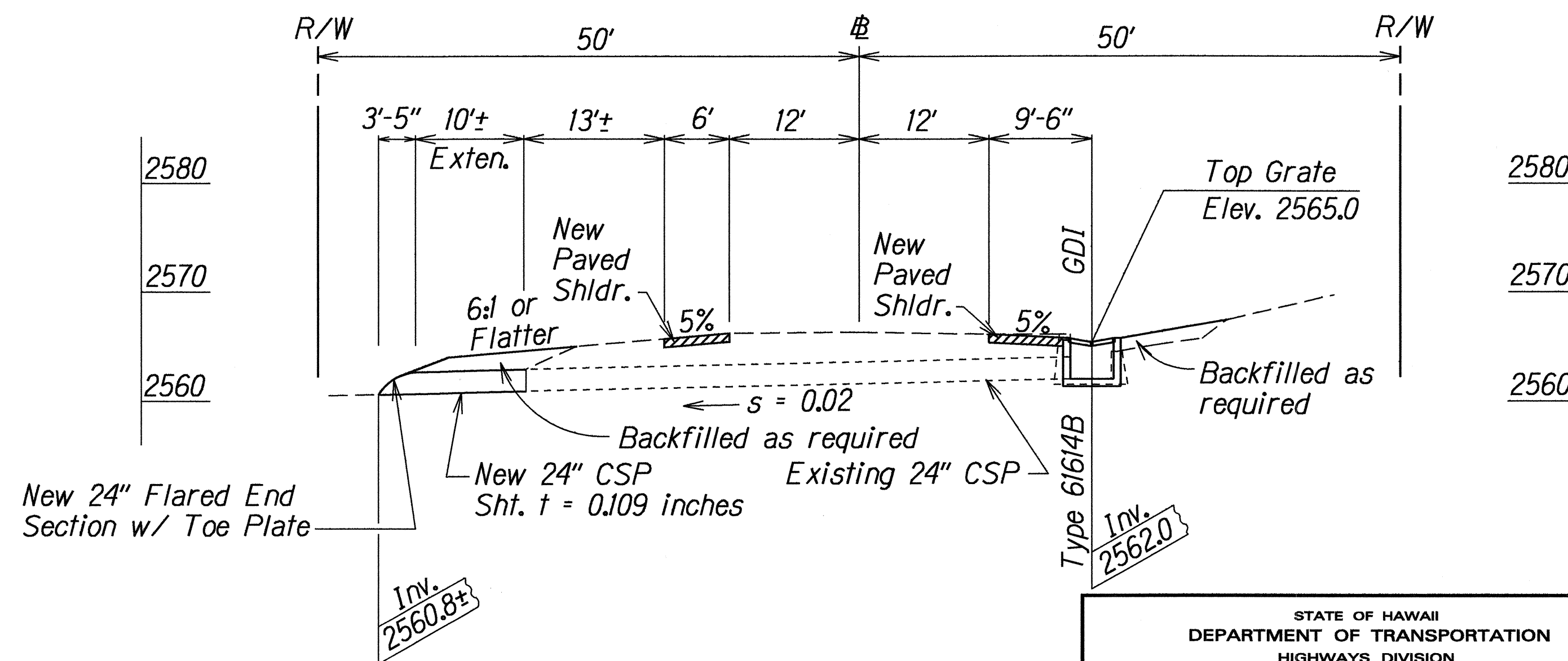
PLAN
Scale: 1" = 10'-0"



PROFILE-30" CSP AT STA. 65+19
Scale: 1" = 10'-0"



PLAN
Scale: 1" = 10'-0"



PROFILE-24" CSP AT STA. 118+14
Scale: 1" = 10'-0"

STATE OF HAWAII

DEPARTMENT OF TRANSPORTATION

HIGHWAYS DIVISION

DRAINAGE PLAN

KULA HIGHWAY

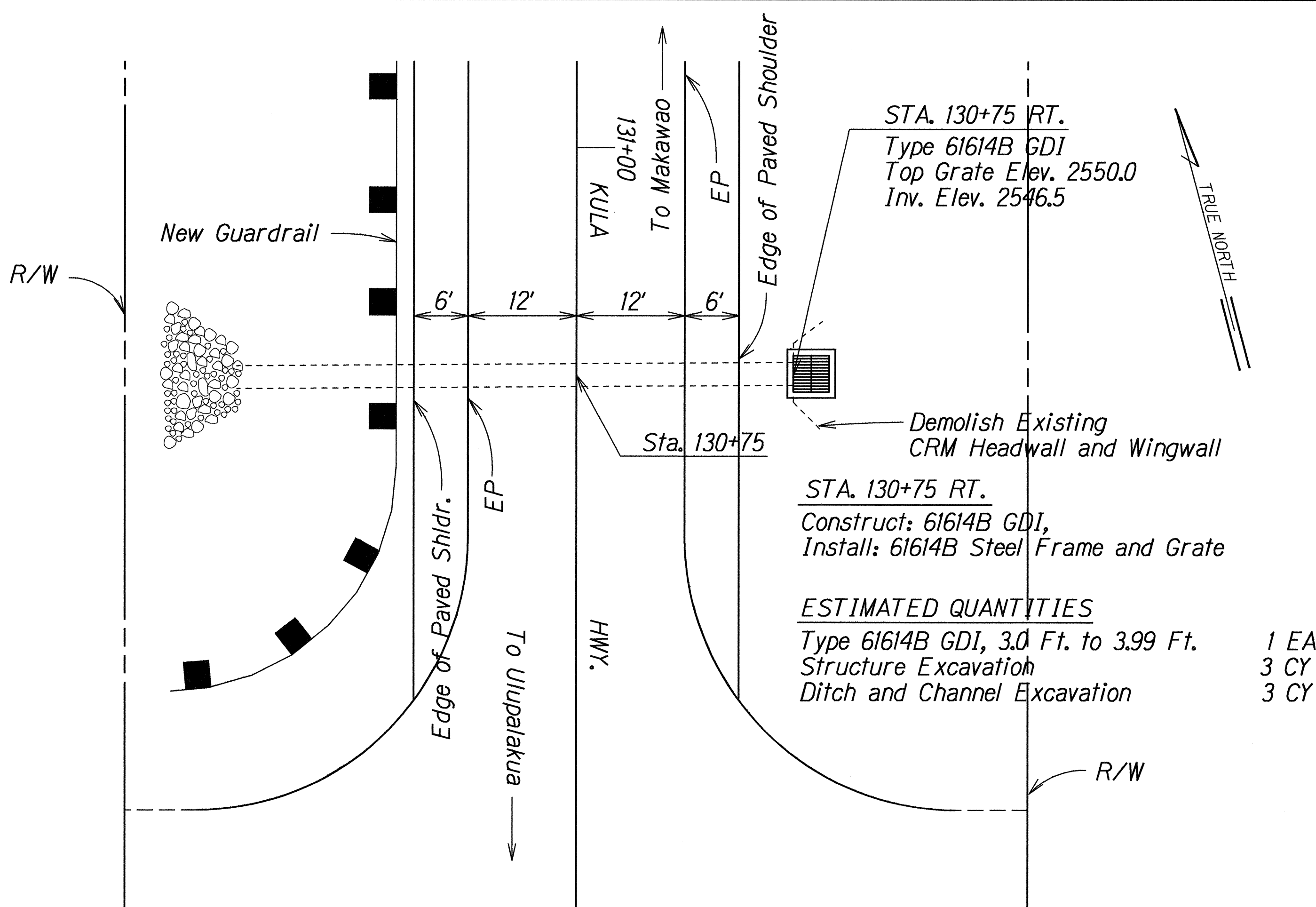
GUARDRAIL & SHOULDER IMPROVEMENTS

Vicinity of Kekaulike Ave. to Lower Kula Rd.

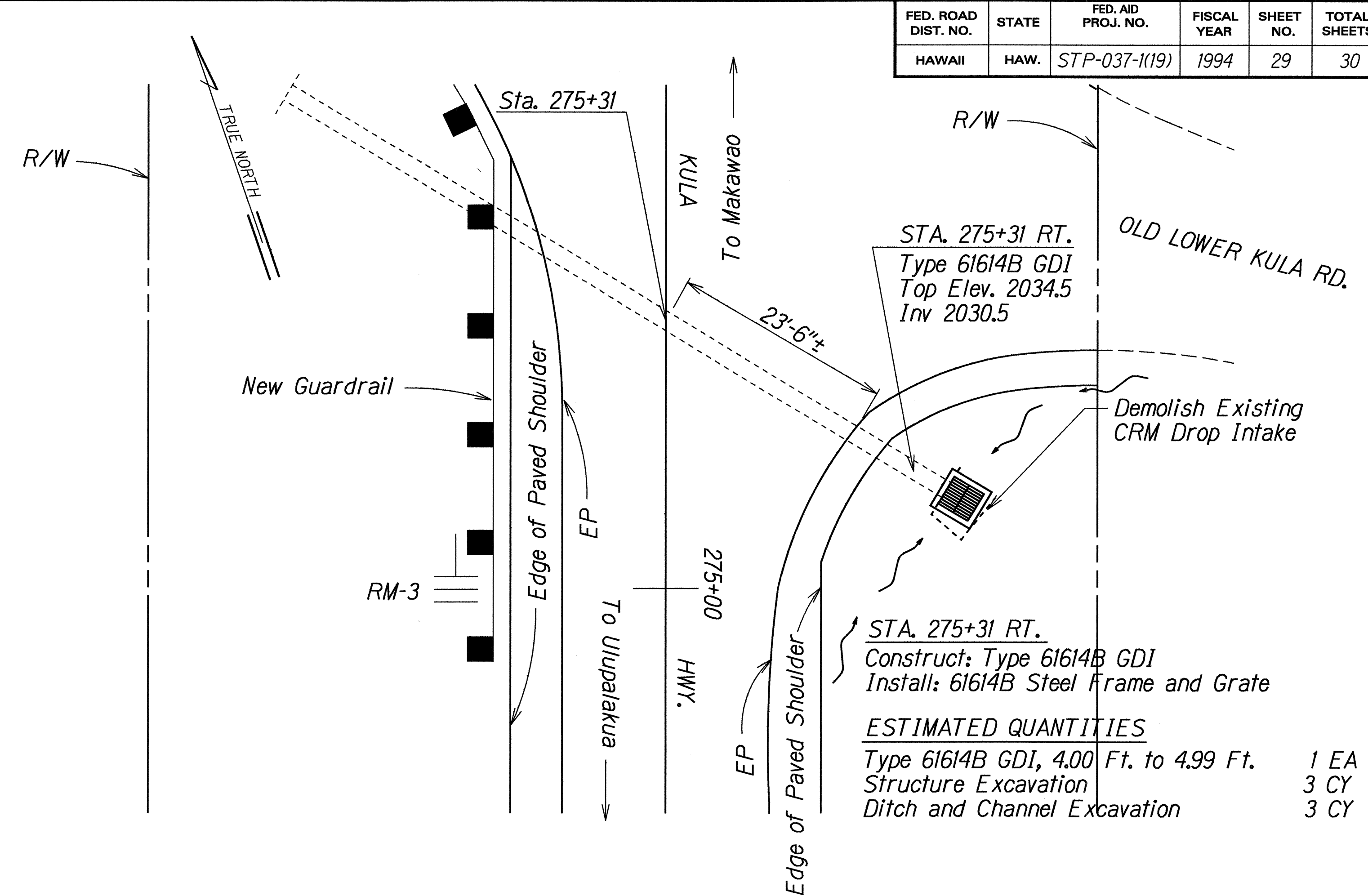
Fed. Aid Proj. No. STP-037-1(19)

Scale: 1" = 10' Date: March, 1994

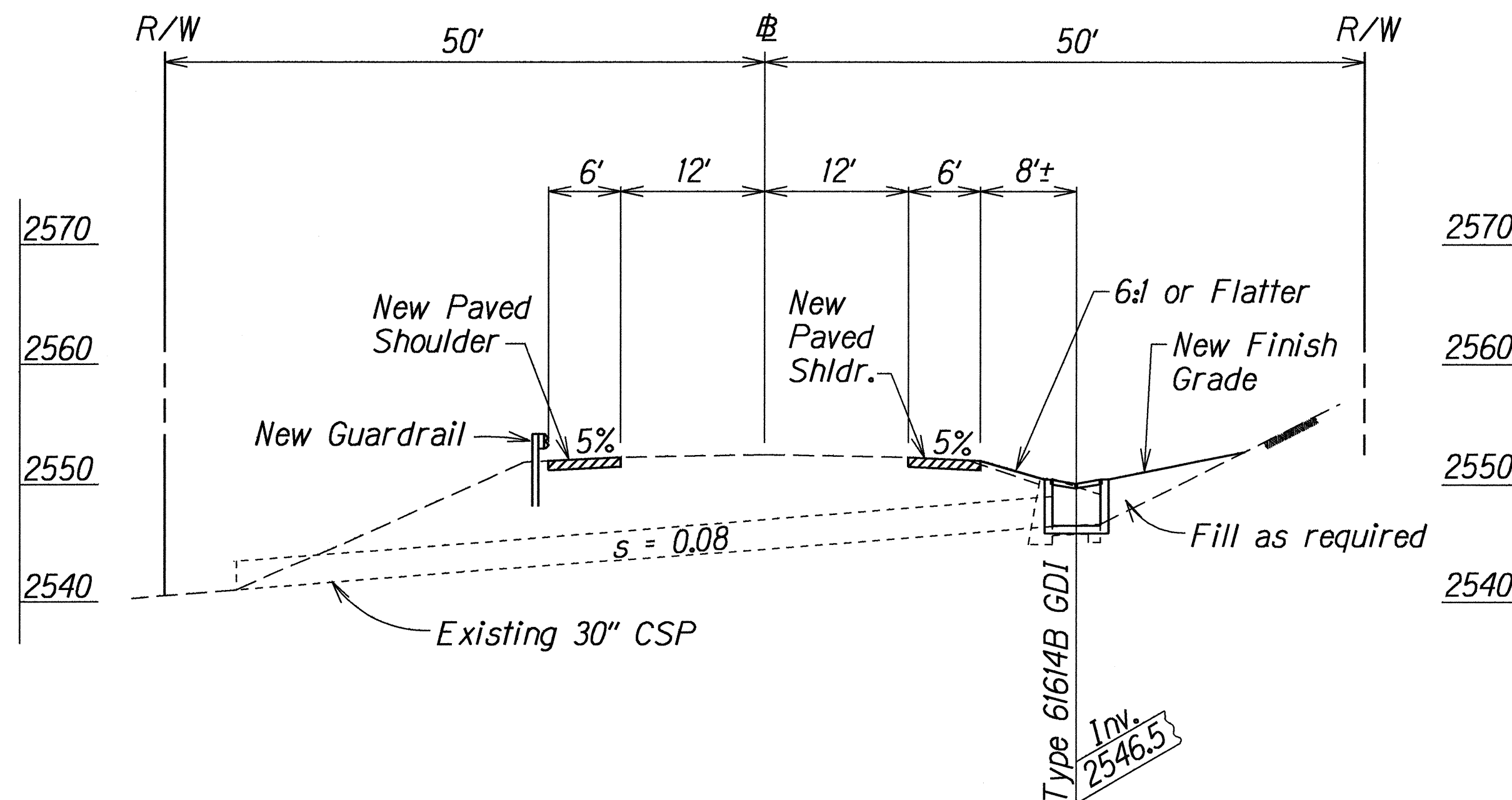
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-037-1(19)	1994	29	30



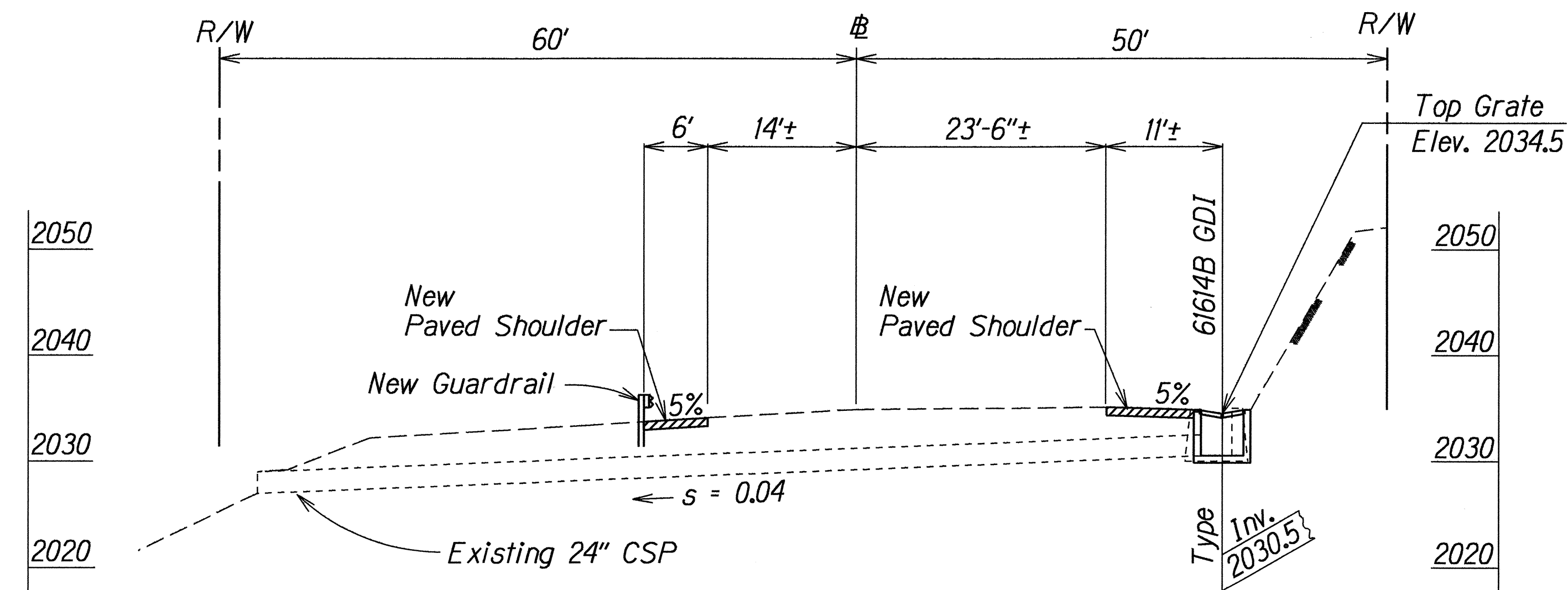
PLAN
Scale: 1" = 10'-0"



PLAN
Scale: 1" = 10'-0"



PROFILE-30" CSP AT STA. 130+75
Scale: 1" = 10'-0"



PROFILE-24" CSP AT STA. 275+31
Scale: 1" = 10'-0"

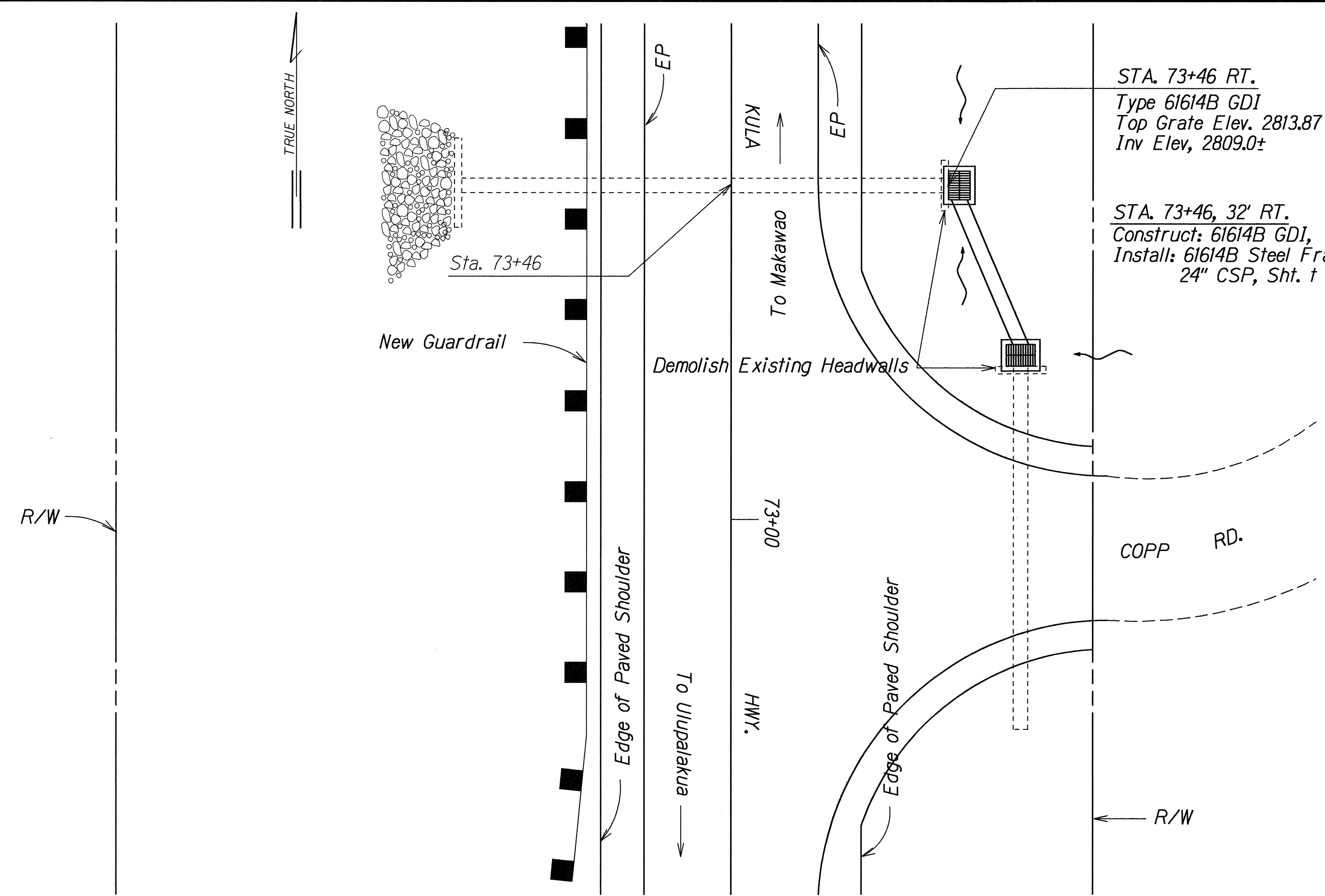
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DRAINAGE PLAN

KULA HIGHWAY
GUARDRAIL & SHOULDER IMPROVEMENTS
Vicinity of Kekaulike Ave. to Lower Kula Rd.
Project No. STP-037-1(19)
Scale: 1" = 10' Date: March, 1994

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTED	DRAWN BY	1-3-29-94
DESIGNED BY	CHECKED BY	
QUANTITIES BY		
CHECKED BY		

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-037-1(19)	1994	30	30



ESTIMATED QUANTITIES

24" CSP, t = 0.109 inches	24 LF
Structure Excavation	30 CY
Type 61614B GDI, 5.00 Ft. to 5.99 Ft.	1 EA
Structure Excavation	2 CY
Ditch and Channel Excavation	4 CY

STA. 73+22, 40' O/S RT.

Type 61614B GDI
Top Grate Elev. 2817.8±
Inv Elev. 2811.5±

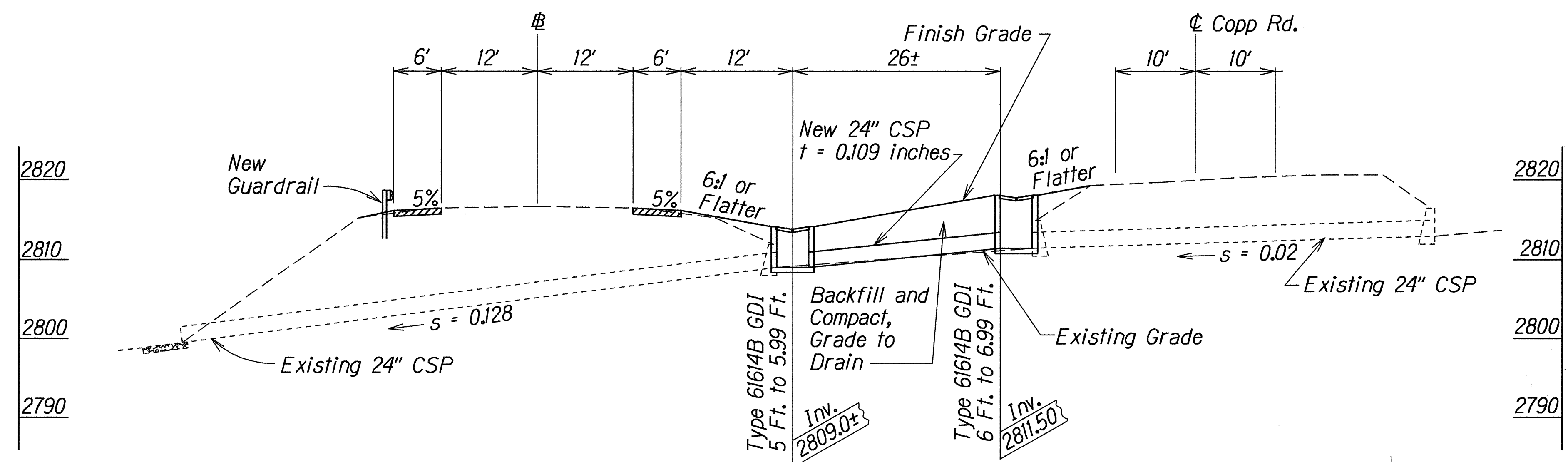
STA. 73+22, 40' O/S RT.

Construct: 61614B GDI,
Install: 61614B Steel Frame and Grate

ESTIMATED QUANTITIES

Type 61614B GDI, 6.00 Ft. to 6.99 Ft.	1 EA
Structure Excavation	2 CY
Ditch and Channel Excavation	4 CY

PLAN
Scale: 1" = 10'-0"



PROFILE-24" CSP AT STA. 73+46
Scale: 1" = 10'-0"

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
	DRAWN BY	1-3-22-94
	TRACED BY	
	DESIGNED BY	
	QUANTITIES BY	
	CHECKED BY	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DRAINAGE PLAN

KULA HIGHWAY

GUARDRAIL & SHOULDER IMPROVEMENTS

Vicinity of Kekaulike Ave. to Lower Kula Rd.

Fed. Aid Proj. No. STP-037-1(19)

Scale: 1" = 10' Date: March, 1994

SHEET No. 4 OF 4 SHEETS