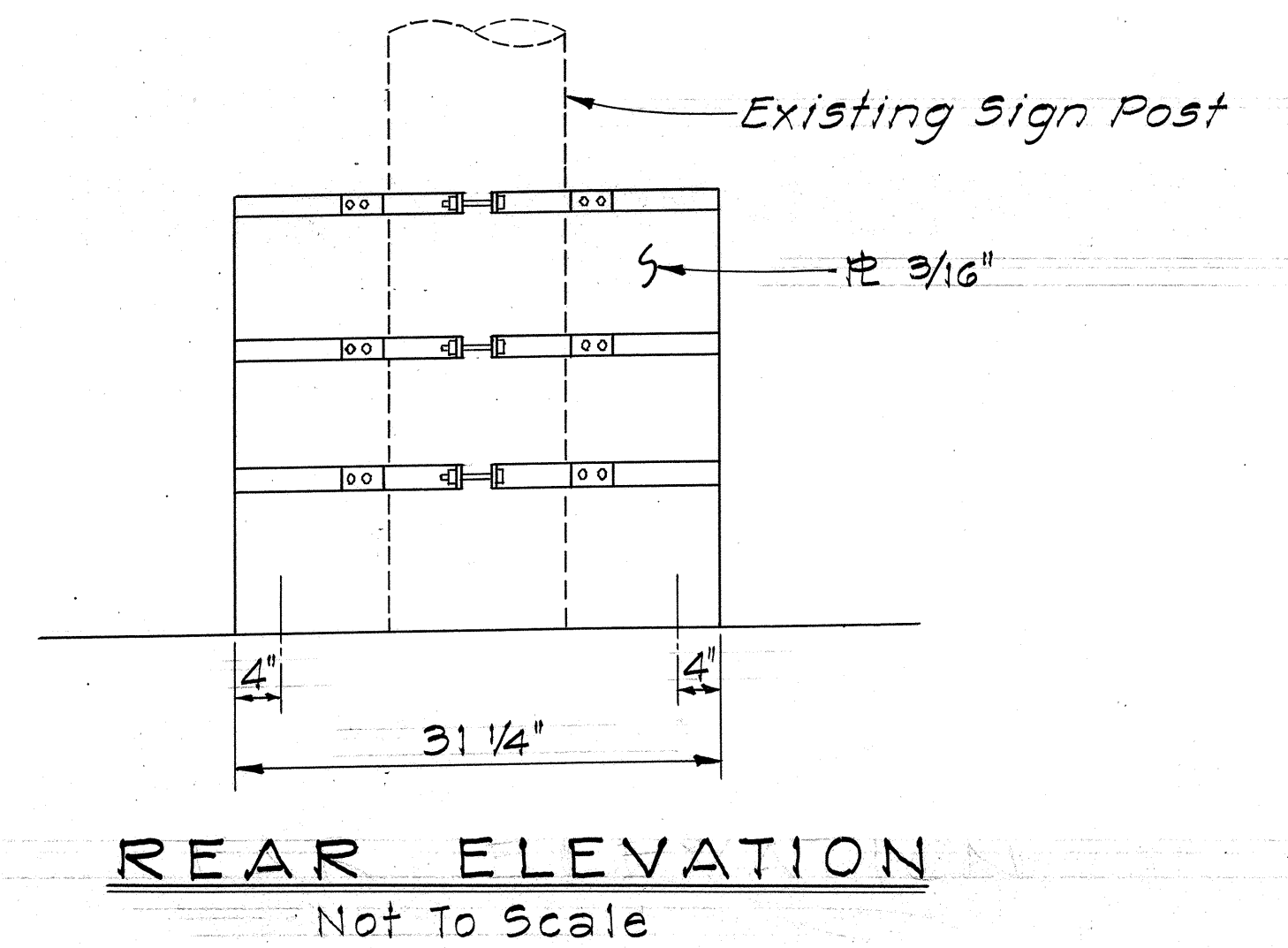
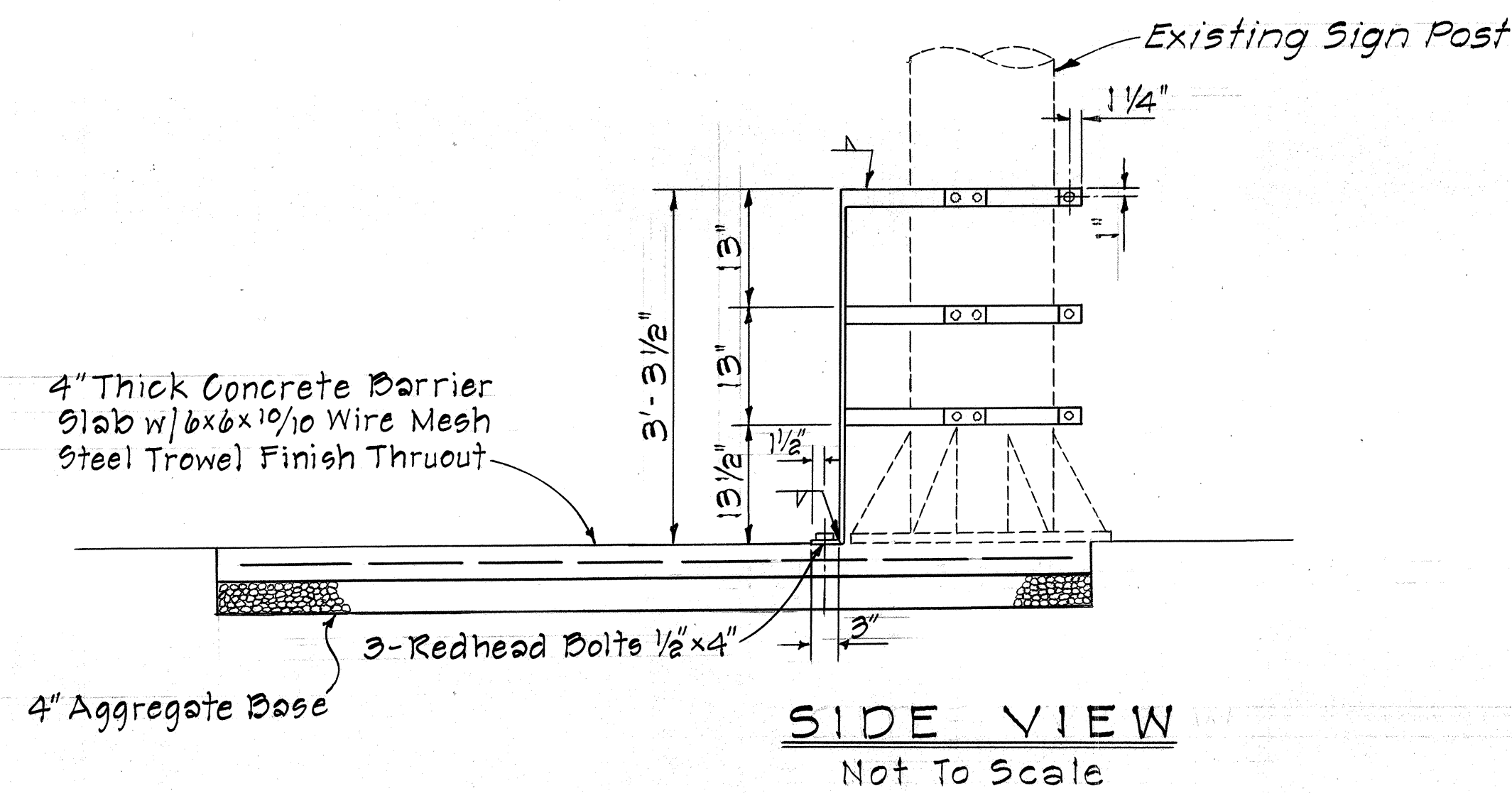
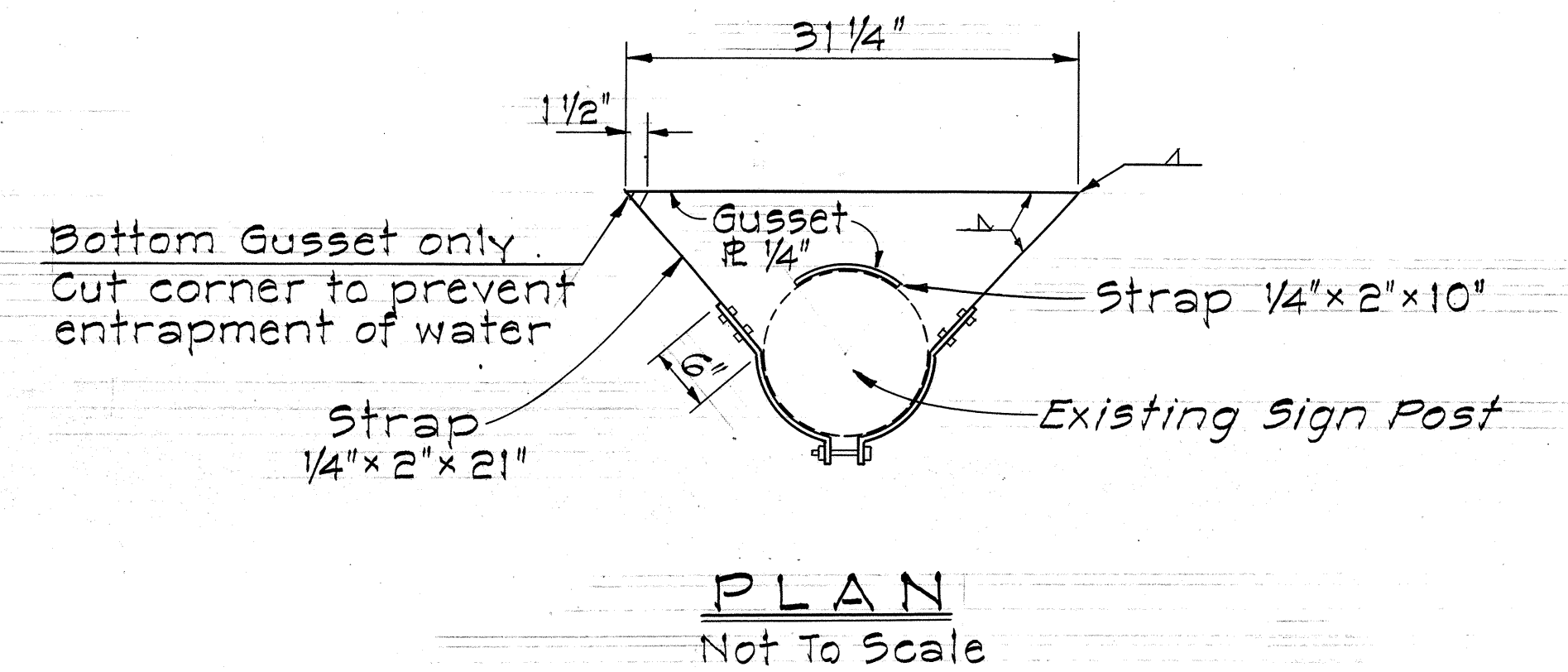
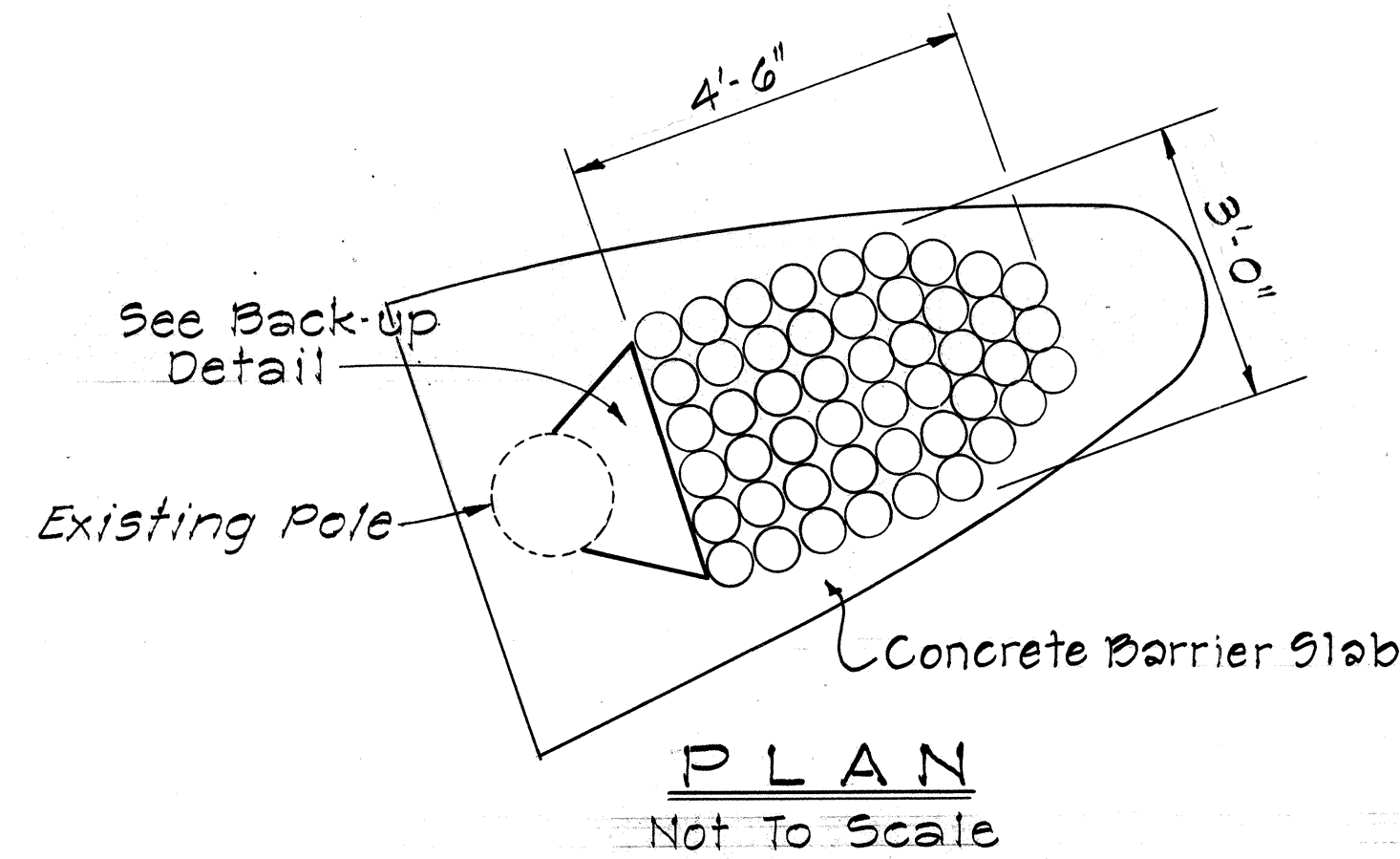


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(112)-19	1973	40	176



- NOTE:**
- Details for the Cushion Barrier Assemblies shall be in accordance with the Manufacturer's recommendations.

DATE	_____
DESIGNED BY	_____
CHECKED BY	_____
NO.	_____

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

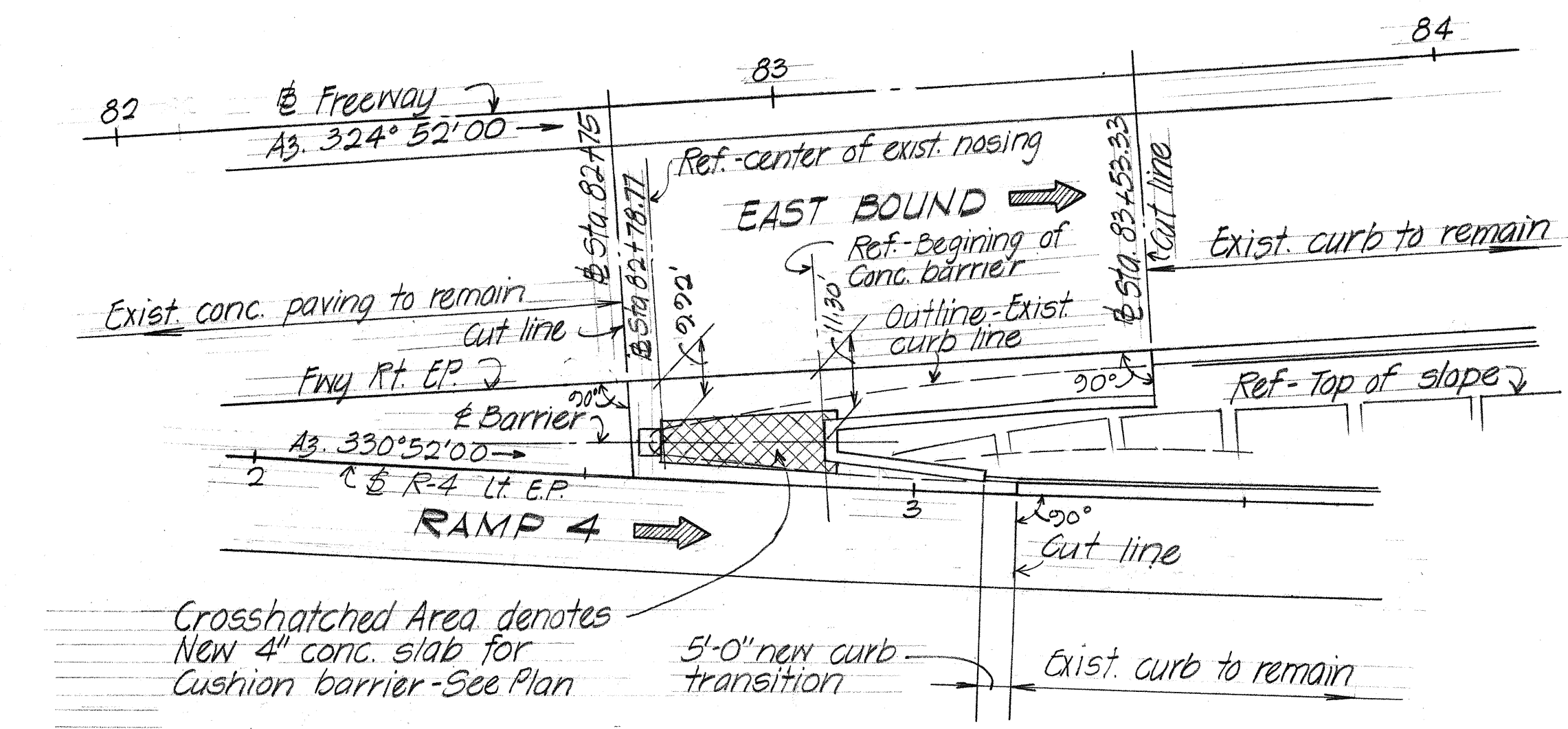
CUSHION BARRIER
AT
KALIHI INTERCHANGE

F.A.I. PROJECT NO. I-HI-1(112)-19

Scale: As Shown

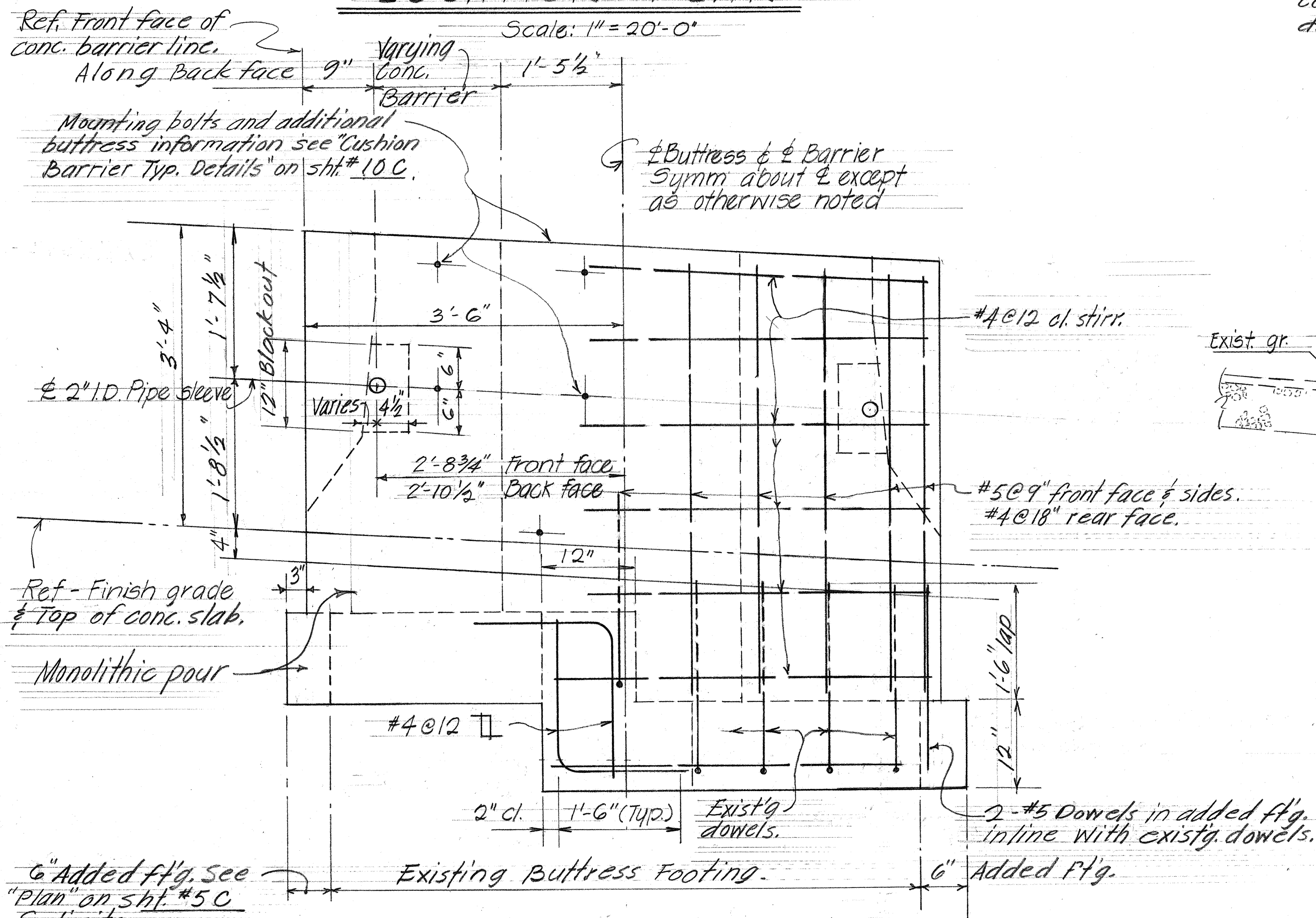
SHEET No. 10 OF 110 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(112):19	1973	00 43	176



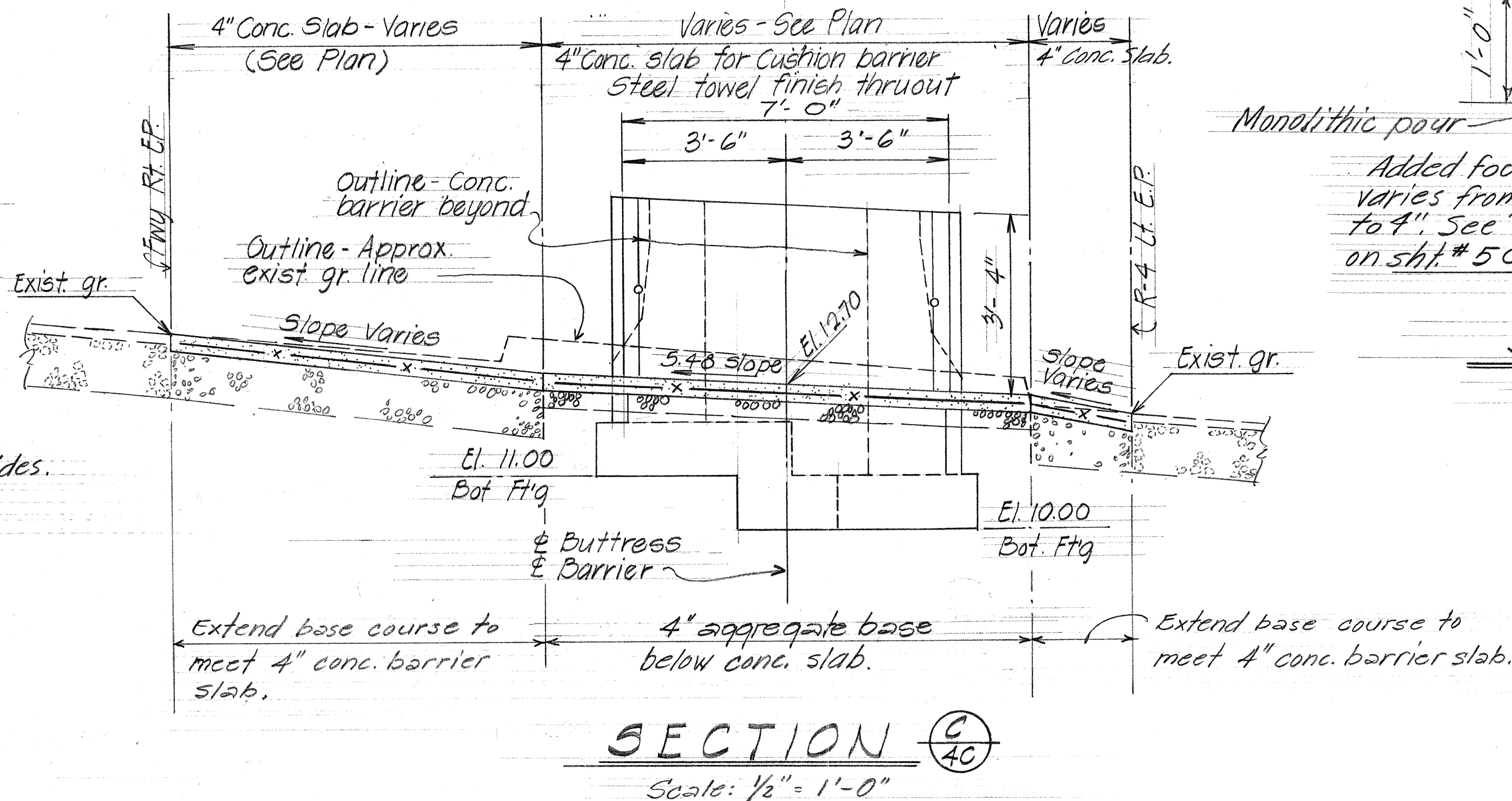
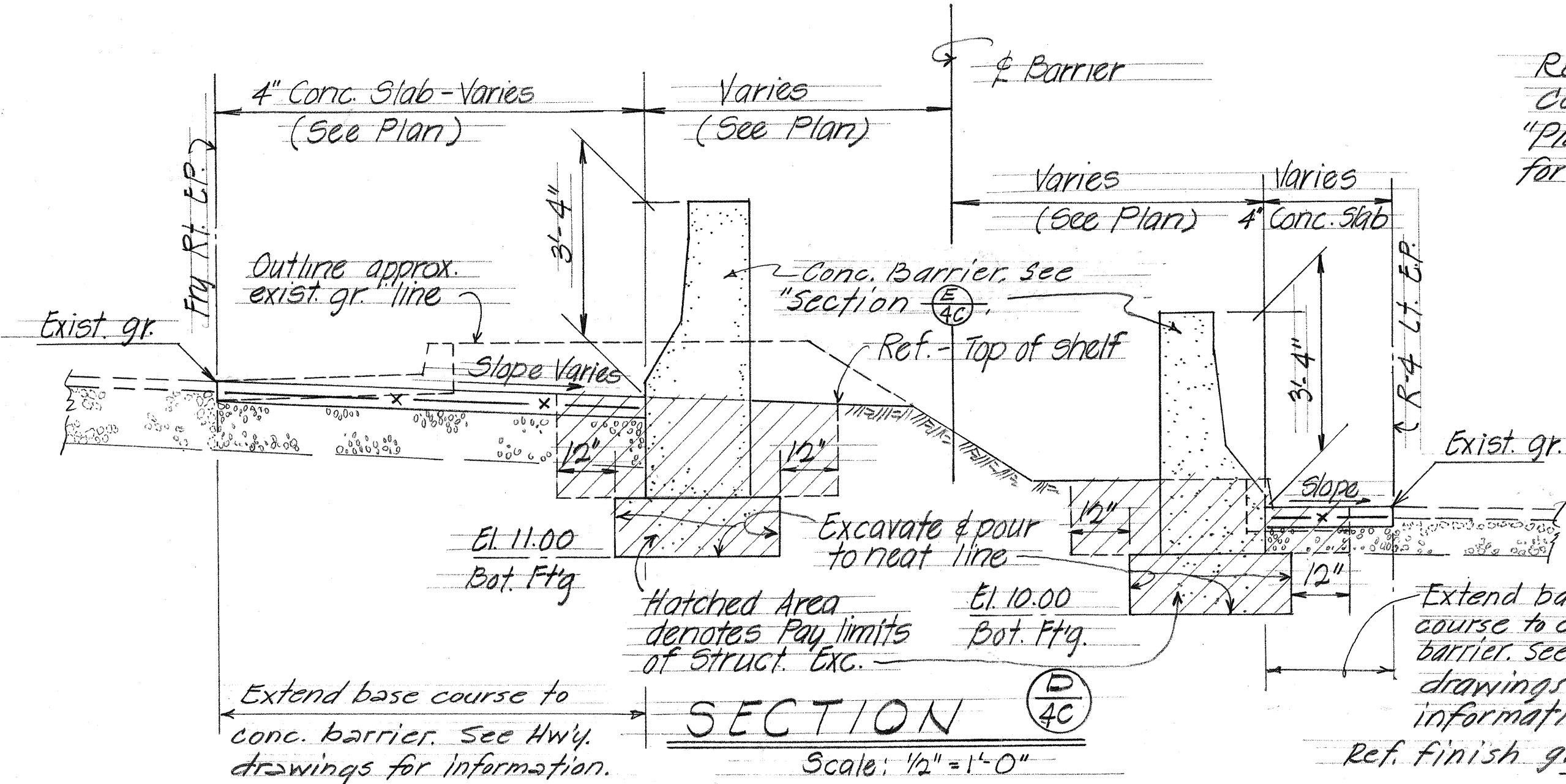
LOCATION PLAN

Scale: 1" = 20'-0"



BUTTRESS ELEVATION

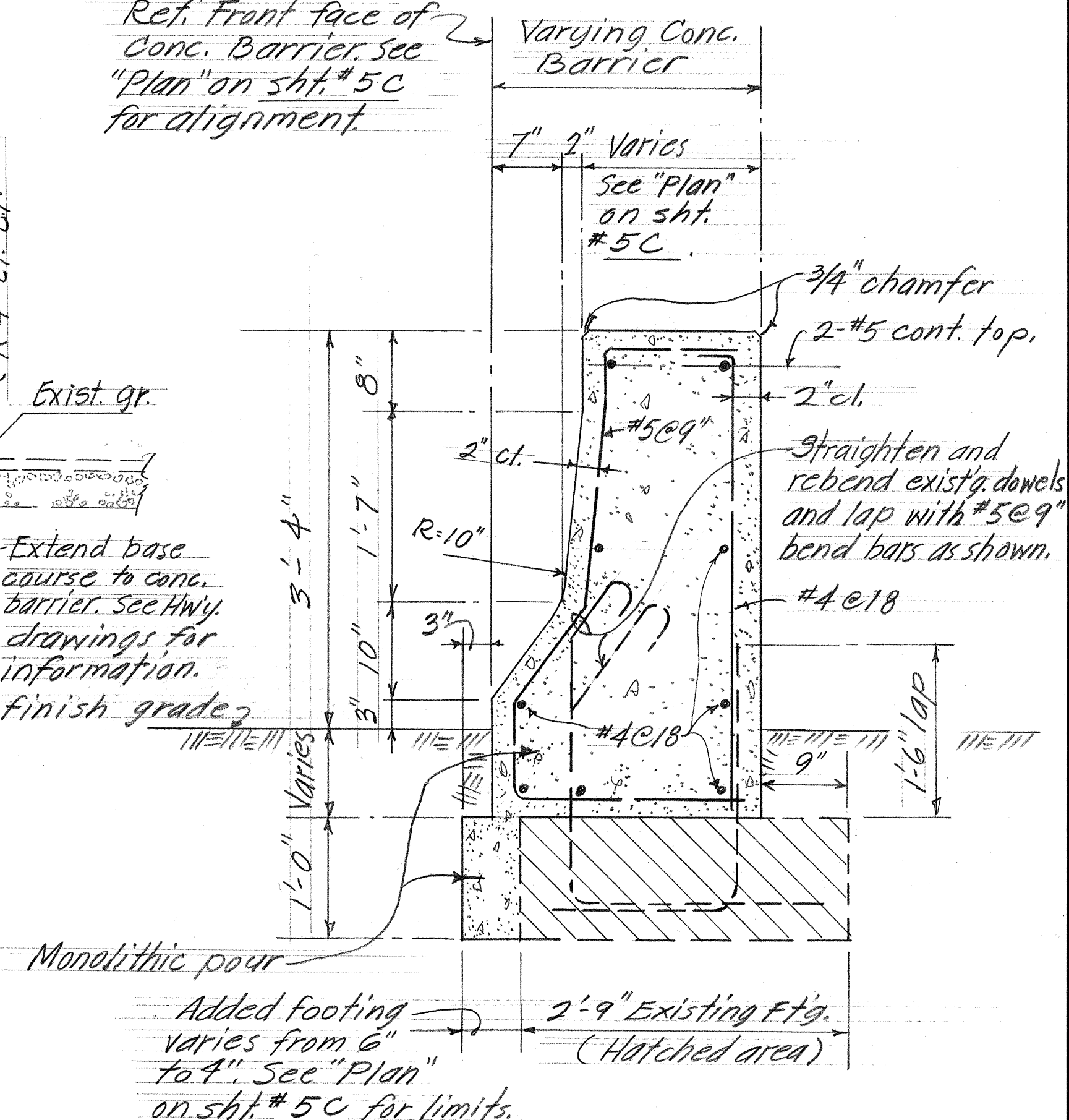
Scale: 1" = 1'-0"



NOTES:

- 1 - For limits of removal of existing curb and shoulder, see Hwy. Drwg.
- 2 - See sht. #10C for additional notes and "Estimated Quantities."

Ref. Front face of Conc. Barrier. See "Plan" on sht. #5C for alignment.



11-27-'74 Buttness width increased from 6' to 7'-0" due to modification of cushion barrier system. Adjoining concrete barrier revised to match revised buttness.

DATE REVISION

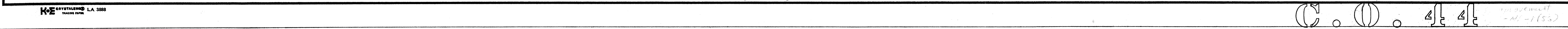
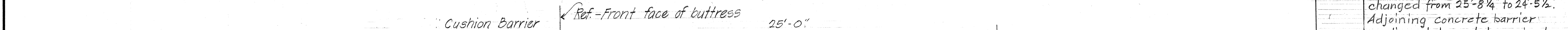
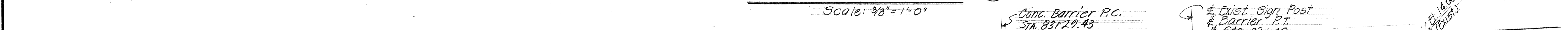
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

INSTALLATION OF CUSHION BARRIER
AT LUNALILO FRWY - VINEYARD (OFF-RAMP)
& STA. 83+00
SAFETY IMPROVEMENTS ALONG
INTERSTATE H-1
KALIHI ST. TO PALI HIGHWAY
Proj. No. I-HI-1(112):19 Date: April, 1973

SHEET No. 40 OF 110 SHEETS

DATE	
SURVEYED BY	
DRAWN BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
No.	

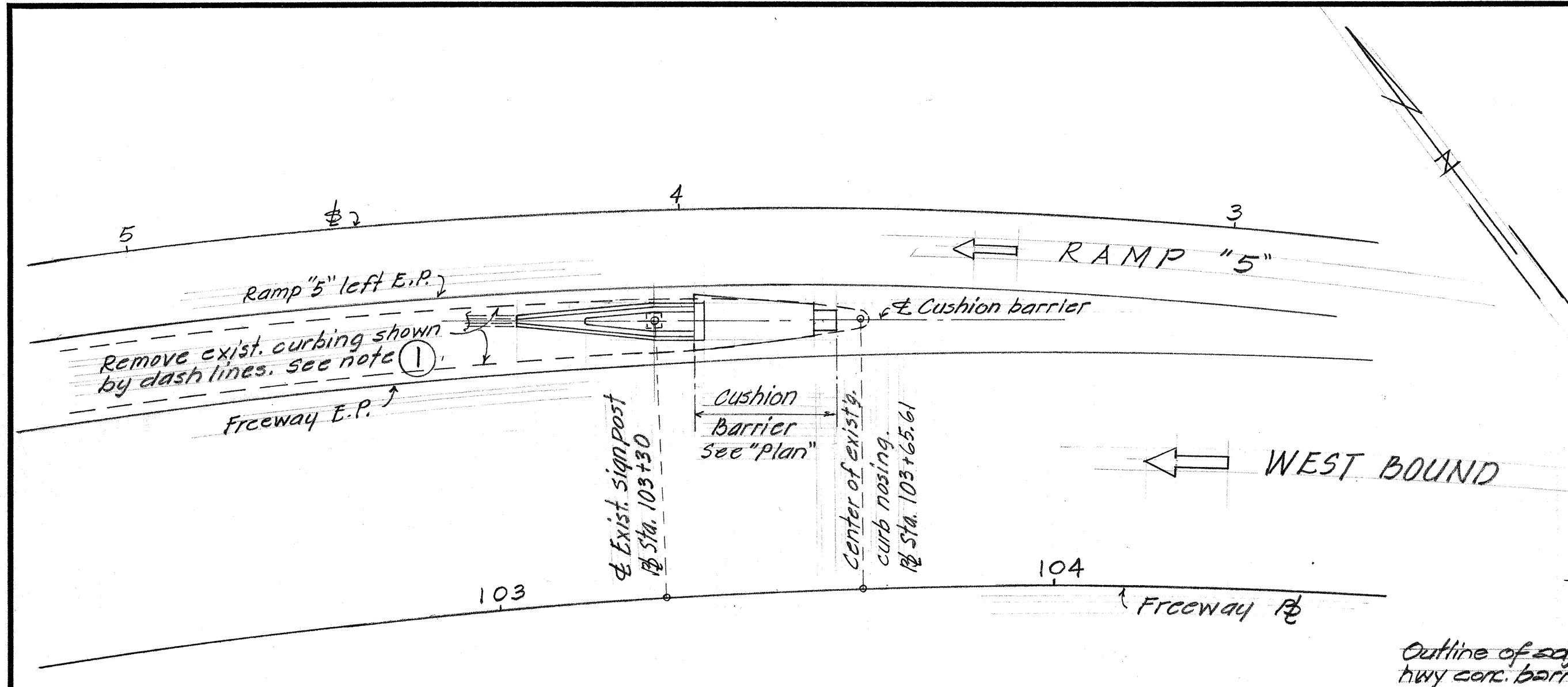
53.33 Metal Guard rail
See Hwy Plan



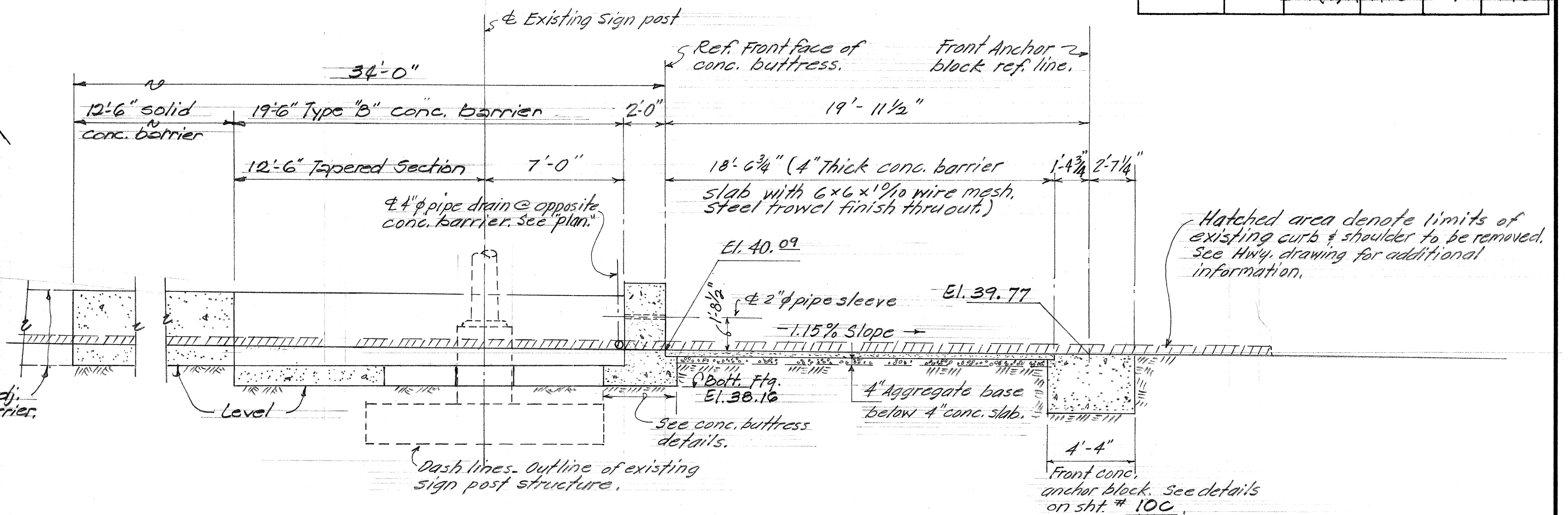
DATE	REVISION
STATE OF HAWAII	

movement
- 44-1(55)

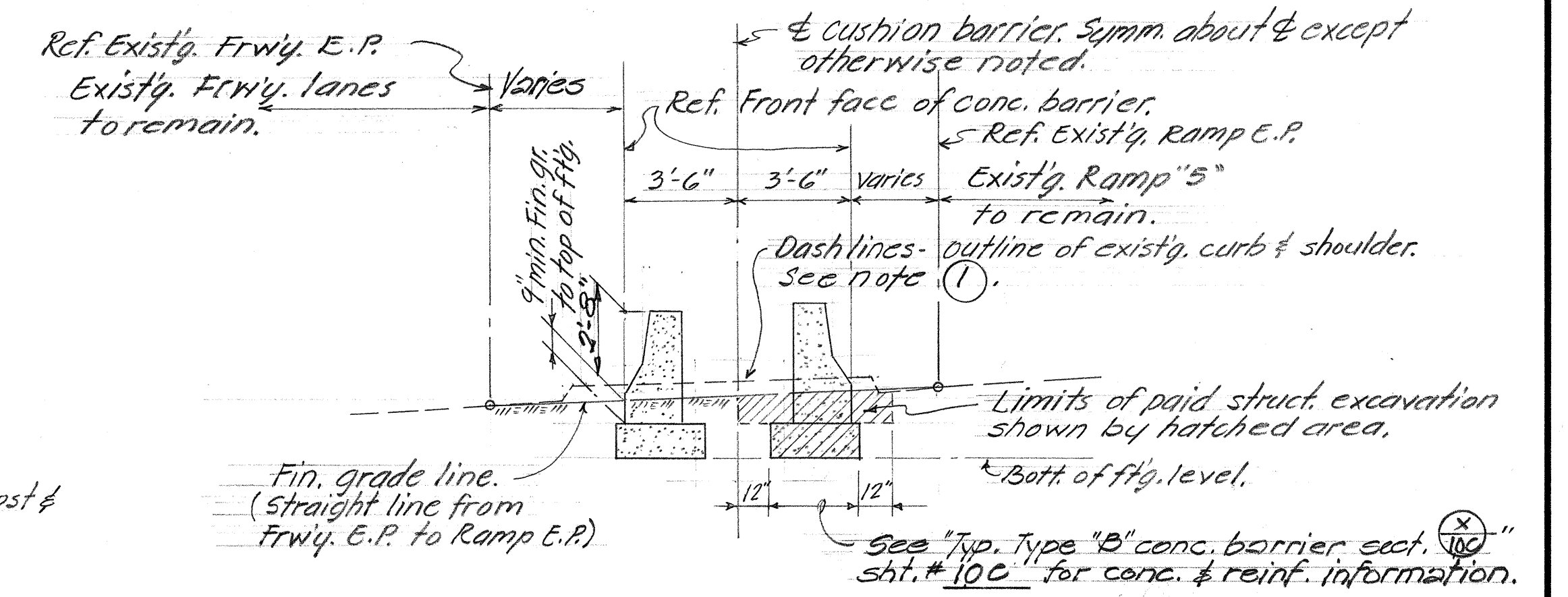
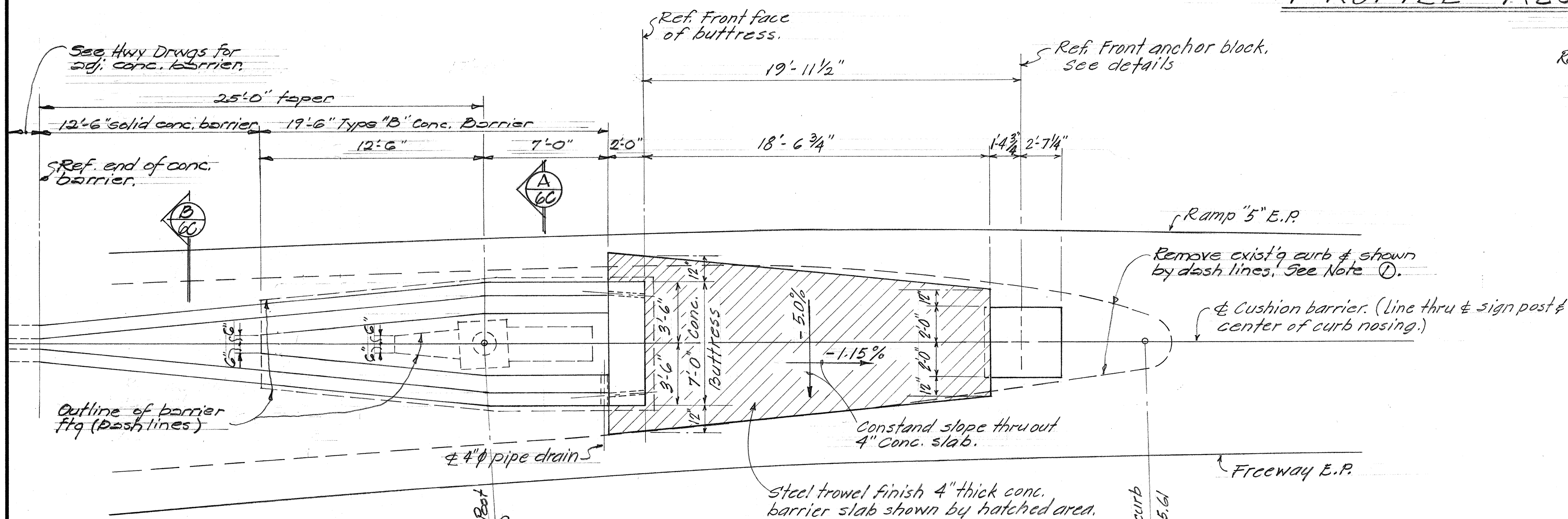
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	T-111-1(112)19	1973	C.O.45	176



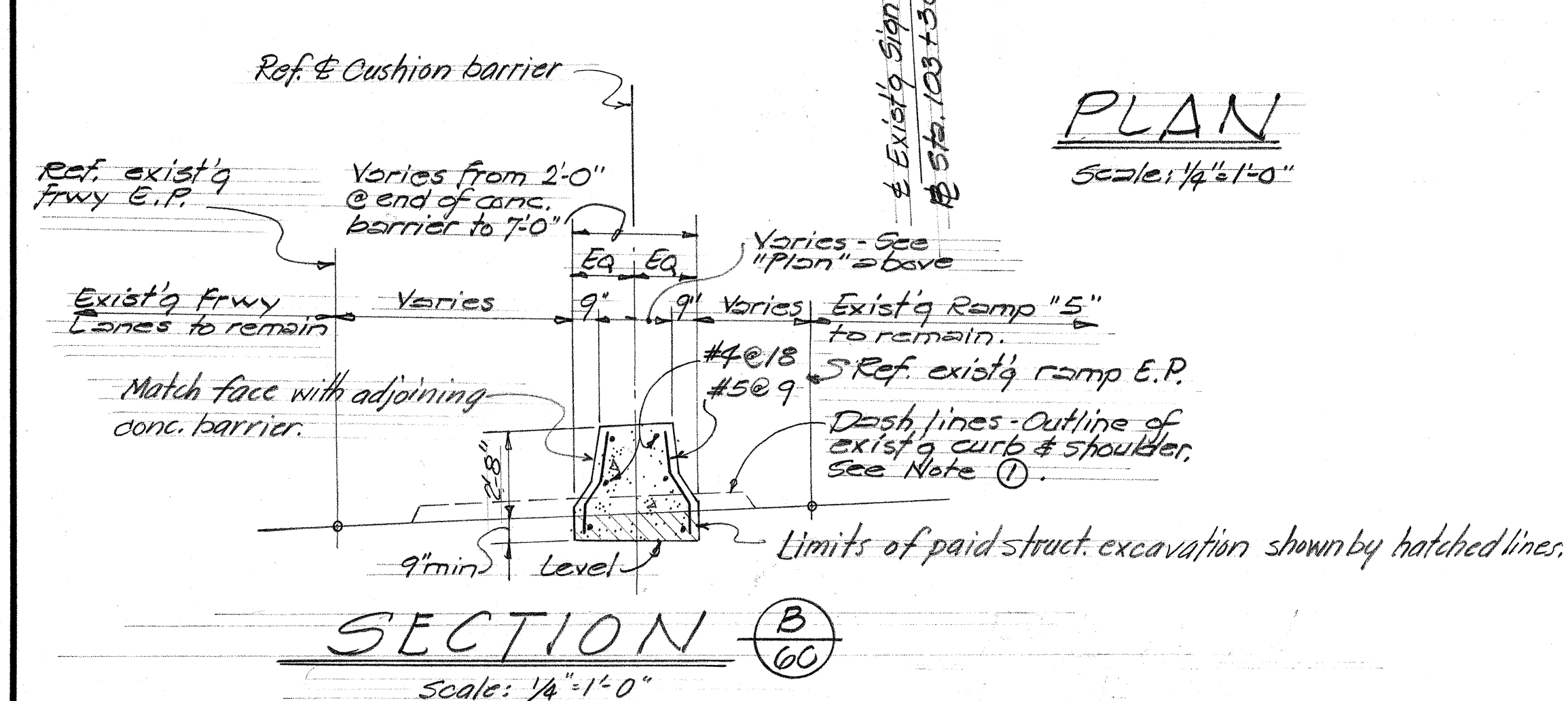
LOCATION PLAN
Scale: 1" = 20'



PROFILE ALONG & CUSHION BARRIER
Scale: 1/4" = 1'-0"



SECTION A-60
Scale: 1/4" = 1'-0"



SECTION B-60
Scale: 1/4" = 1'-0"

NOTES

- ① For limits of removal of existing curbs and shoulders see Highway drawings.
- ② See Sht. # 100 for additional notes and "Estimated Quantities."

12'-6-74 Height of 2" pipe sleeve changed from 1'-8" to 1'-8 1/2" and length of unit changed from 21'-2 1/4" to 19'-11 1/2".

DATE REVISION

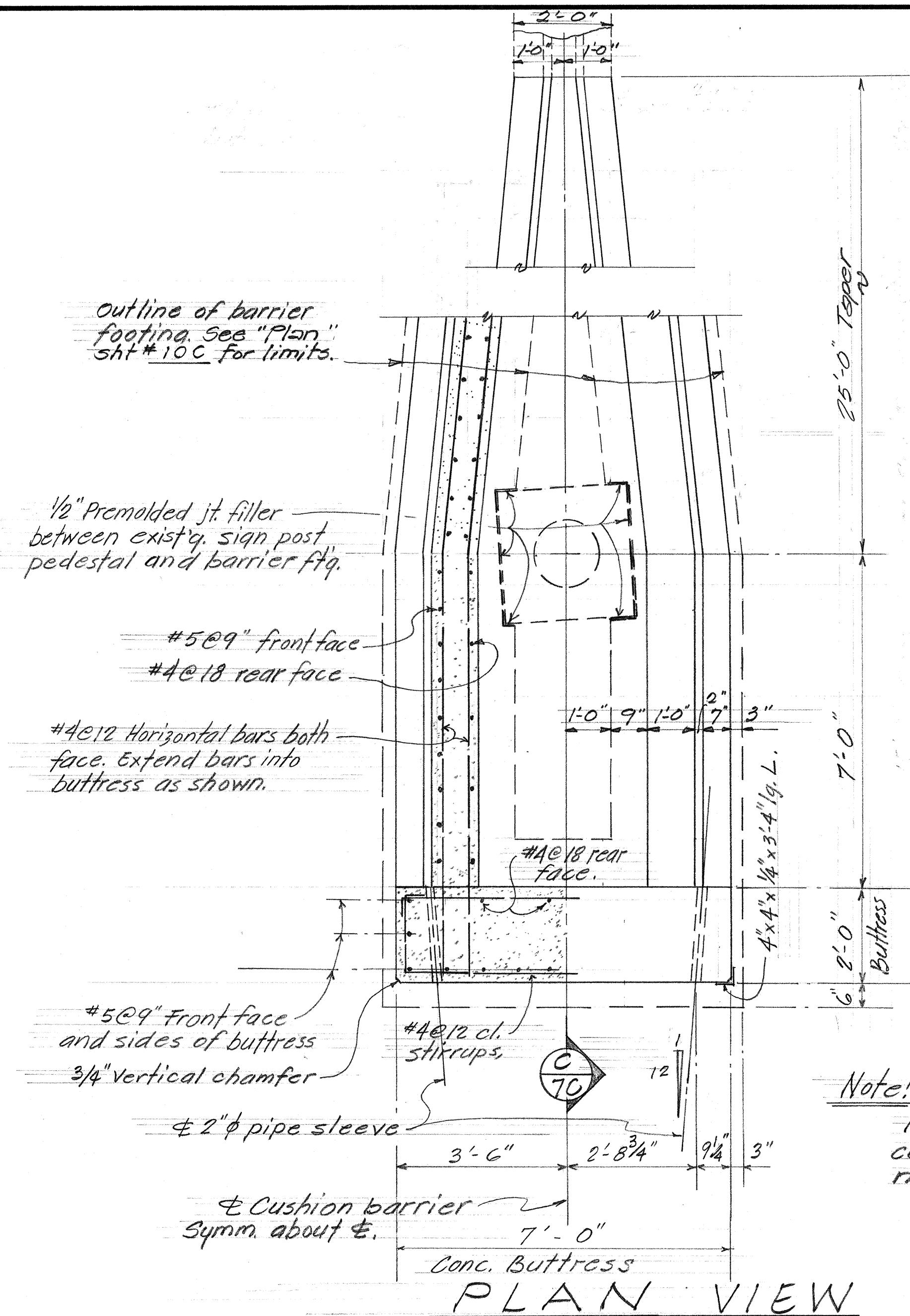
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
INSTALLATION OF CUSHION BARRIER
AT LUNALILO FRWY. & RAMP "5"
@ Sta. 103+50
SAFETY IMPROVEMENTS ALONG
INTERSTATE H-1
KALIHI ST. TO PALI HIGHWAY
Proj. No. I-H-1(112)19 DATE: April, 1973

SHEET No. 60 OF 110 SHEETS

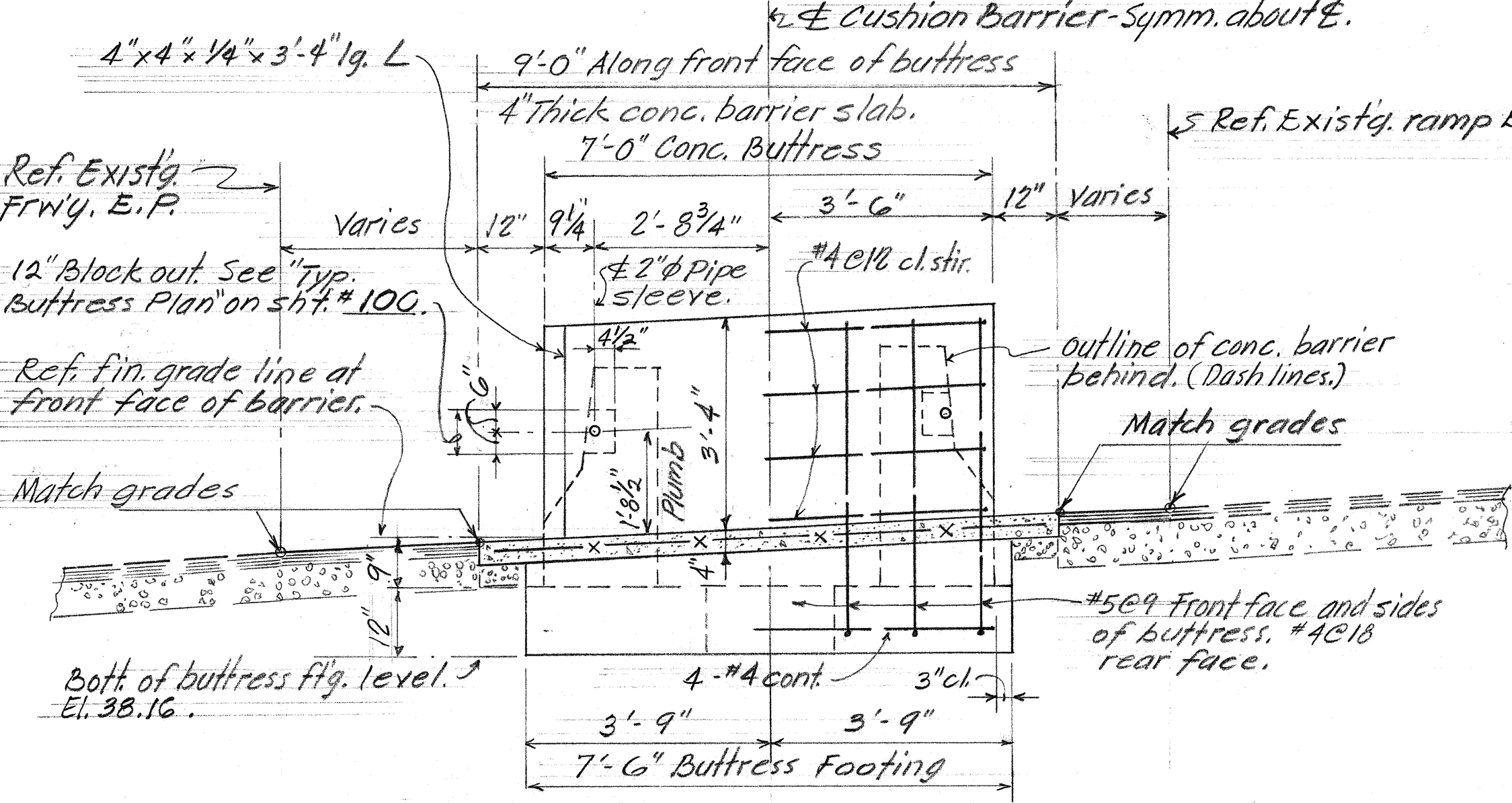
C. O. 45

DATE	_____
SURVEY PLOTTED BY	_____
DESIGNED BY	_____
NOTED BY	_____
CHECKED BY	_____
ORIGINAL PLAN	_____
NOTE BOOK	_____
NO.	_____

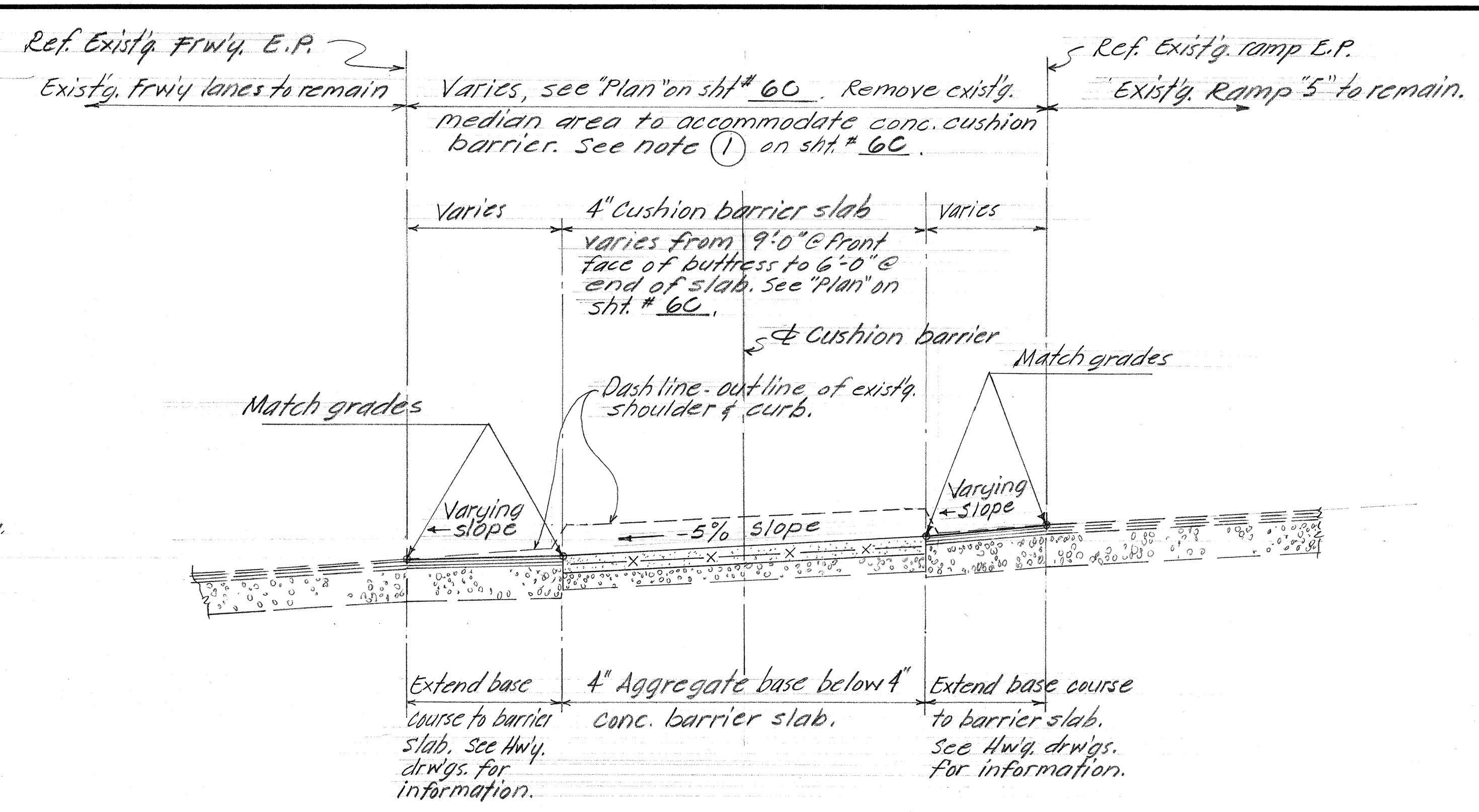
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(112)19	1973	40	176



PLAN VIEW

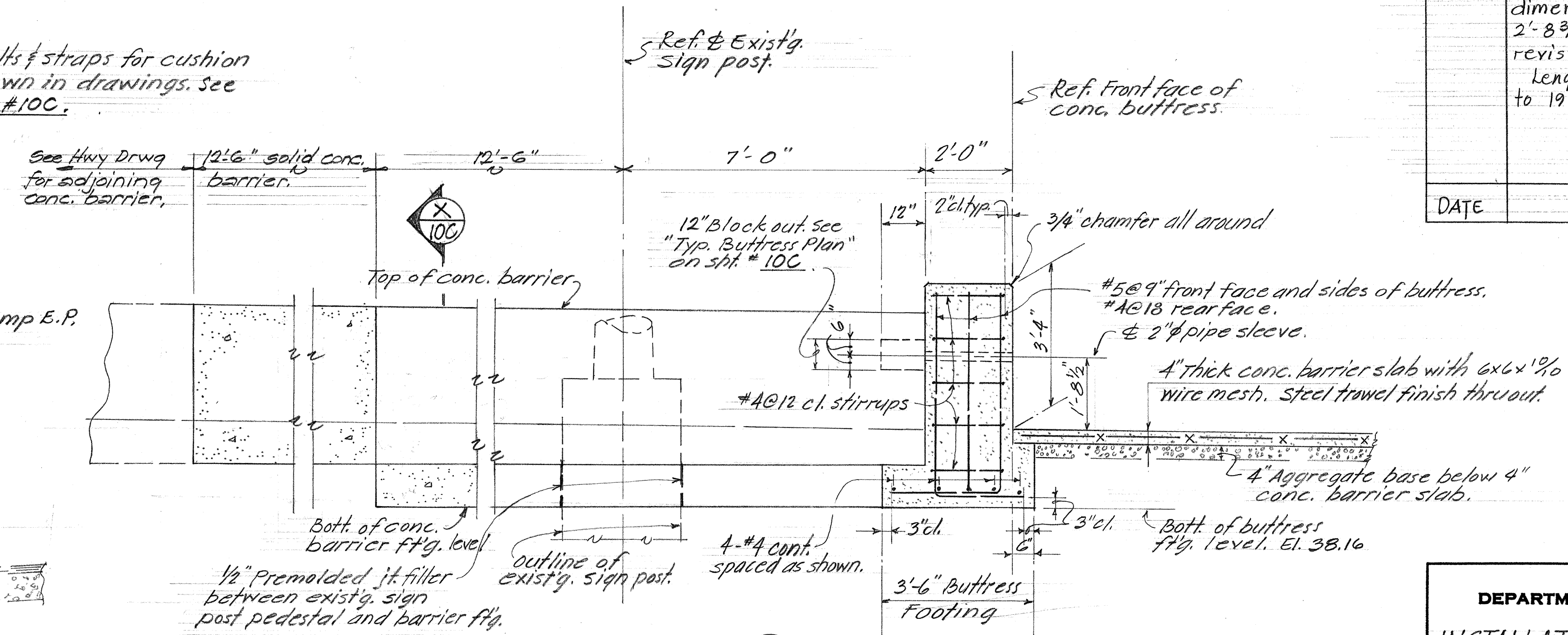


FRONT ELEVATION



TYP. SECT. THRU 4" CONC. CUSHION BARRIER SLAB

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



SECTION C-70

CONC. BUTTRESS & CONC. BARRIER DETAILS

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

12-6-74 Restraining cable 2" pipe sleeve dimension changed from 2'-8 1/4" to 2'-8 3/4" and block out dimension revised. Length of unit changed from 21'-2 1/4" to 19'-11 1/2".

DATE	REVISION
------	----------

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

INSTALLATION OF CUSHION BARRIER
AT LUNALILO FRWY. & RAMP "5"
1/2 STA. 103+50
SAFETY IMPROVEMENTS ALONG
INTERSTATE H-1
KALIHI ST. TO PALI HIGHWAY
Proj. No. I-HI-1 (112) 19 DATE: April, 1973

SHEET No. 7C OF 11C SHEETS

DATE	.....
SURVEY PLOTTED BY	.....
DRAWN BY	.....
DESIGNED BY	.....
CHECKED BY	.....
ORIGINAL PLAN	.....
NOTE BOOK	.....

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

INSTALLATION OF CUSHION BARRIER
AT LUNALILO Fwy-SCHOOL ST. (OFF-RAMP)

@ STA. 132+75

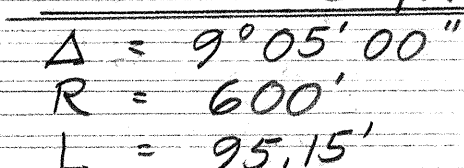
SAFETY IMPROVEMENTS ALONG
INTERSTATE H-1
KALIHI ST. TO PALI HIGHWAY

Proj. No. I-H-1 (C12)-19 Date: April, 1973

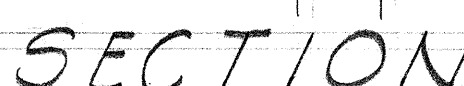
SHEET NO. 80 OF 110 SHEETS



Scale: 1" = 20'-0"



Scale: $3'' = 1'-0''$



Scale: $3'' = 1'-0''$



Scale: 1" = 1'-0"



Scale: $\frac{1}{2}'' = 1' - 0''$



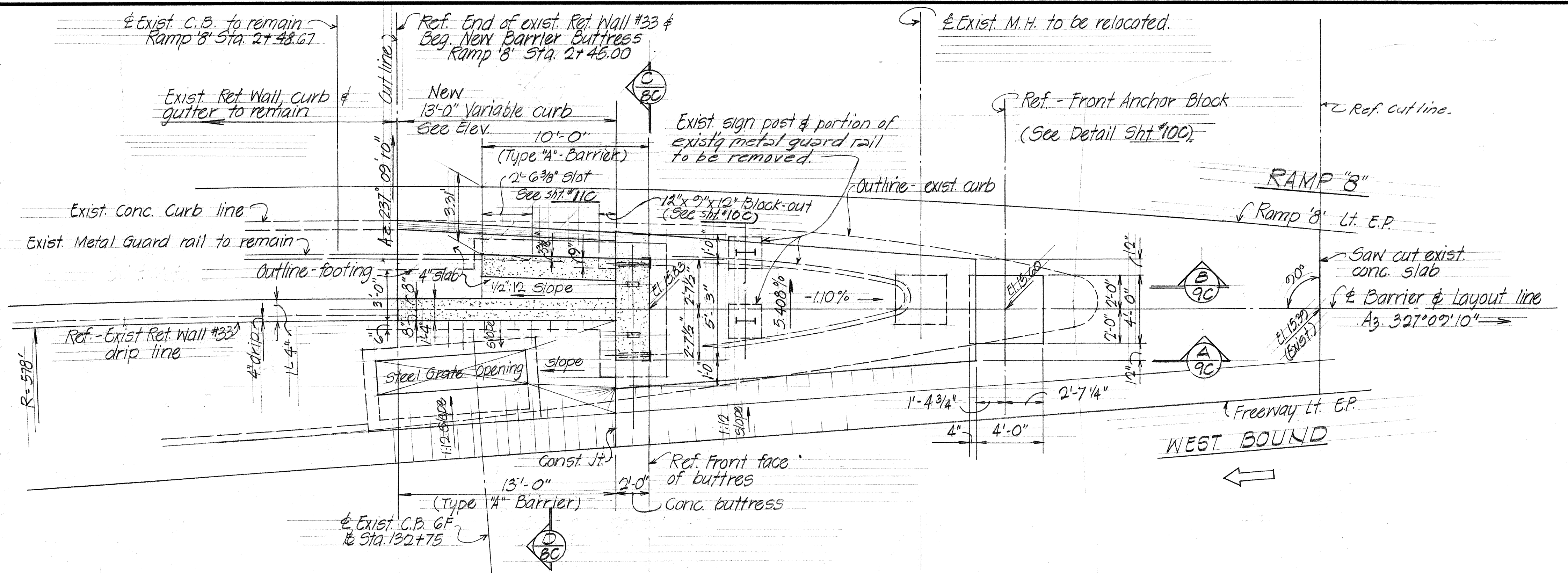
Scale: $\frac{1}{2}" = 1' - 0"$

NOTES

- ① For limits of removal of existing curb and shoulder, see Hwy Drawgs.
- ② See sht. #100 for additional notes and "Estimated Quantities."

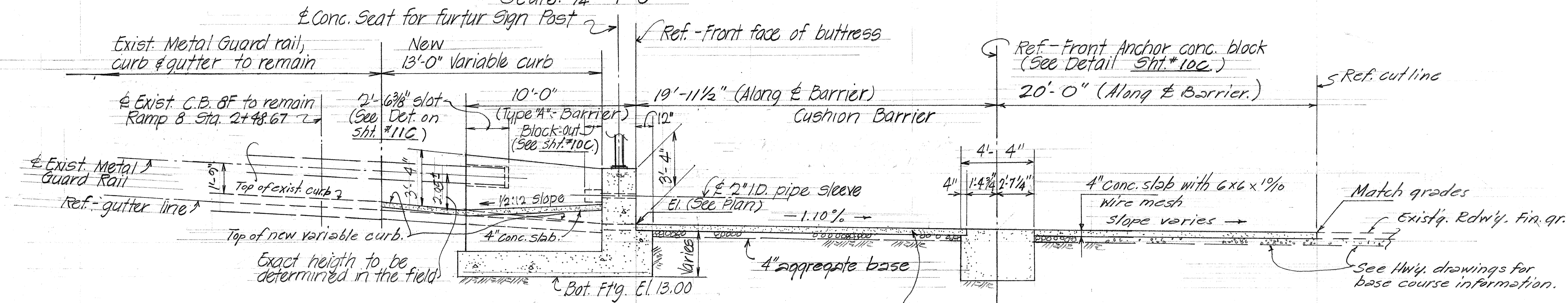
12-6-'74	Buttress width changed from 7'-0" to 5'-3" and restraining cable 2" ϕ sleeve location revised accordingly. length of unit changed from 21'-2 1/4" to 19'-11 1/2" and block out dimension changed Also, Curve Data (8B) added to clarify position of cushion barrier.
DATE	REVISION

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	111-1(12):19	1973	60.48	176



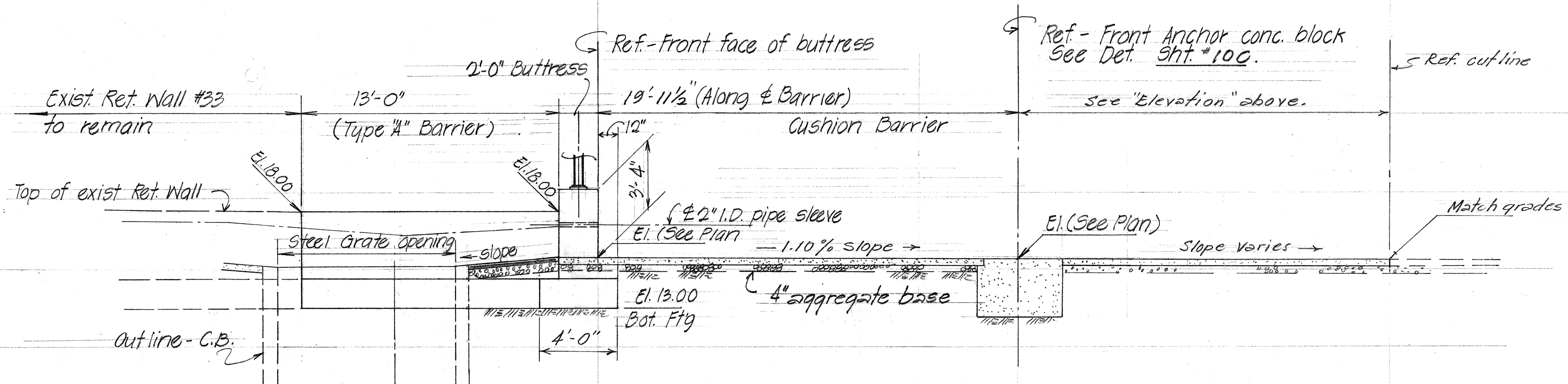
PLAN

Scale: 1/4" = 1'-0"



ELEVATION (B)

Scale: 1/4" = 1'-0"



ELEVATION (A)

Scale: 1/4" = 1'-0"

12-6-74 Buttness width changed from 7'-0" to 5'-3" and restraining cable 2"φ sleeve location revised accordingly. Length of unit changed from 21'-2 1/4" to 19'-11 1/2" and block out dimension changed.

DATE REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
INSTALLATION OF CUSHION BARRIER
AT LUNALILO FRWY-SCHOOL ST (OFF-RAMP)
Sta. 132+75
SAFETY IMPROVEMENTS ALONG
INTERSTATE H-1
KALIHI ST. TO PALI HIGHWAY
Proj. No. I-HI-1(12):19 Date: April, 1973
SHEET No. 90 OF 110 SHEETS

DATE	.....
DESIGNED BY	.....
CHECKED BY	.....
NOTED BY	.....
ORIGINAL PLAN	.....

