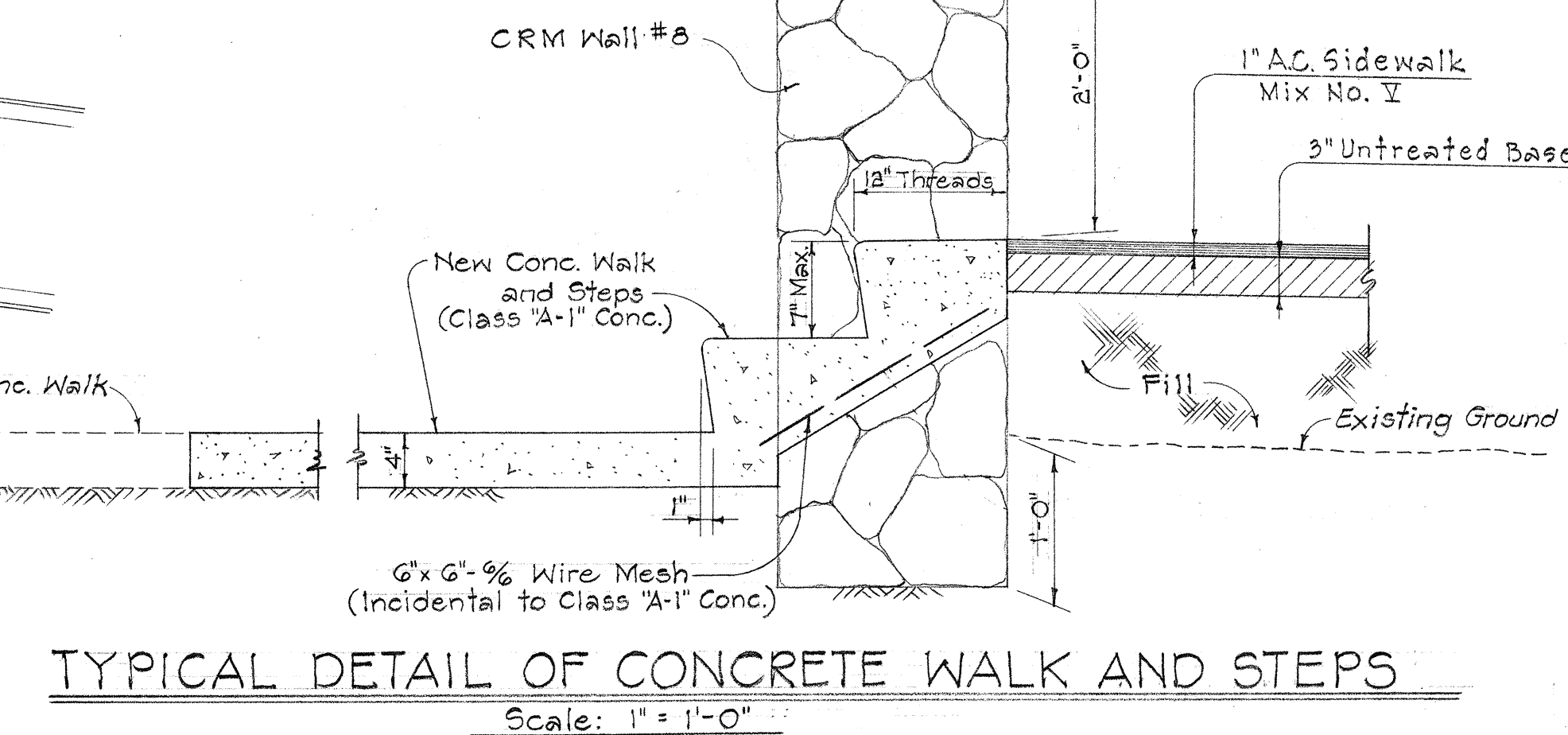
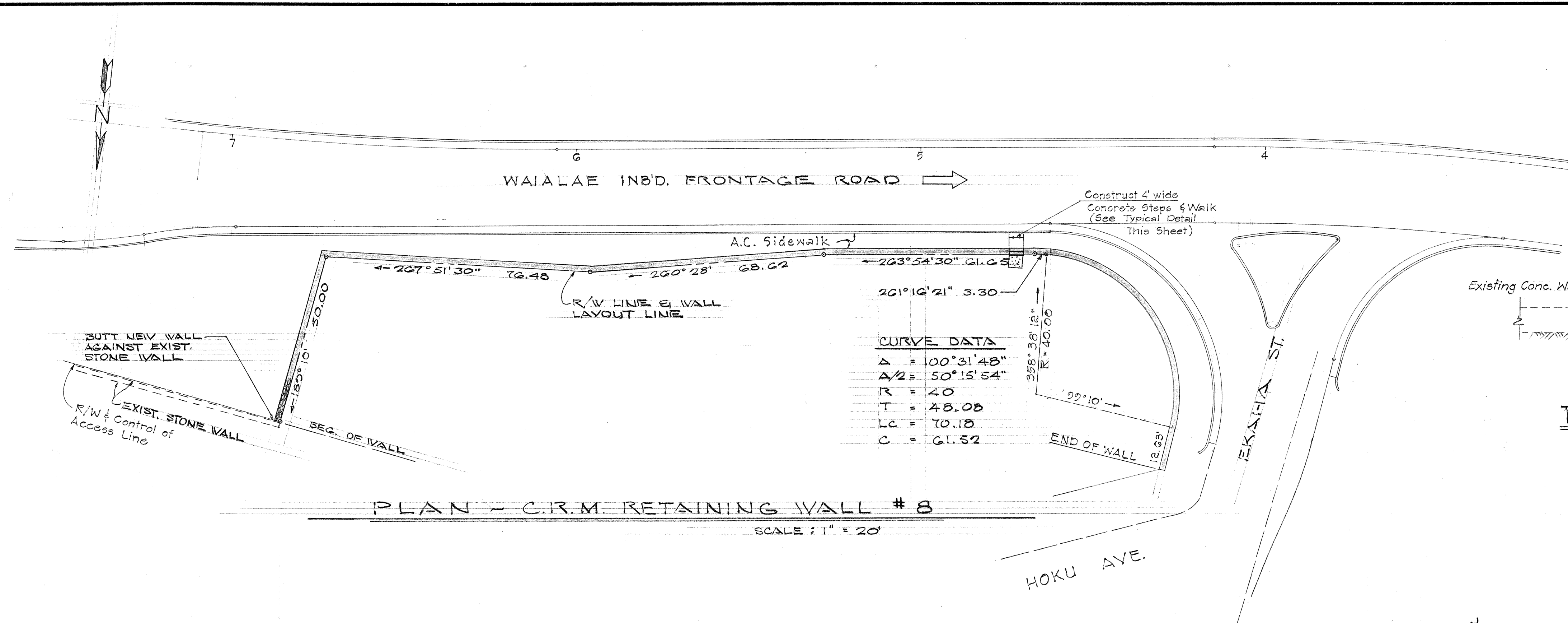
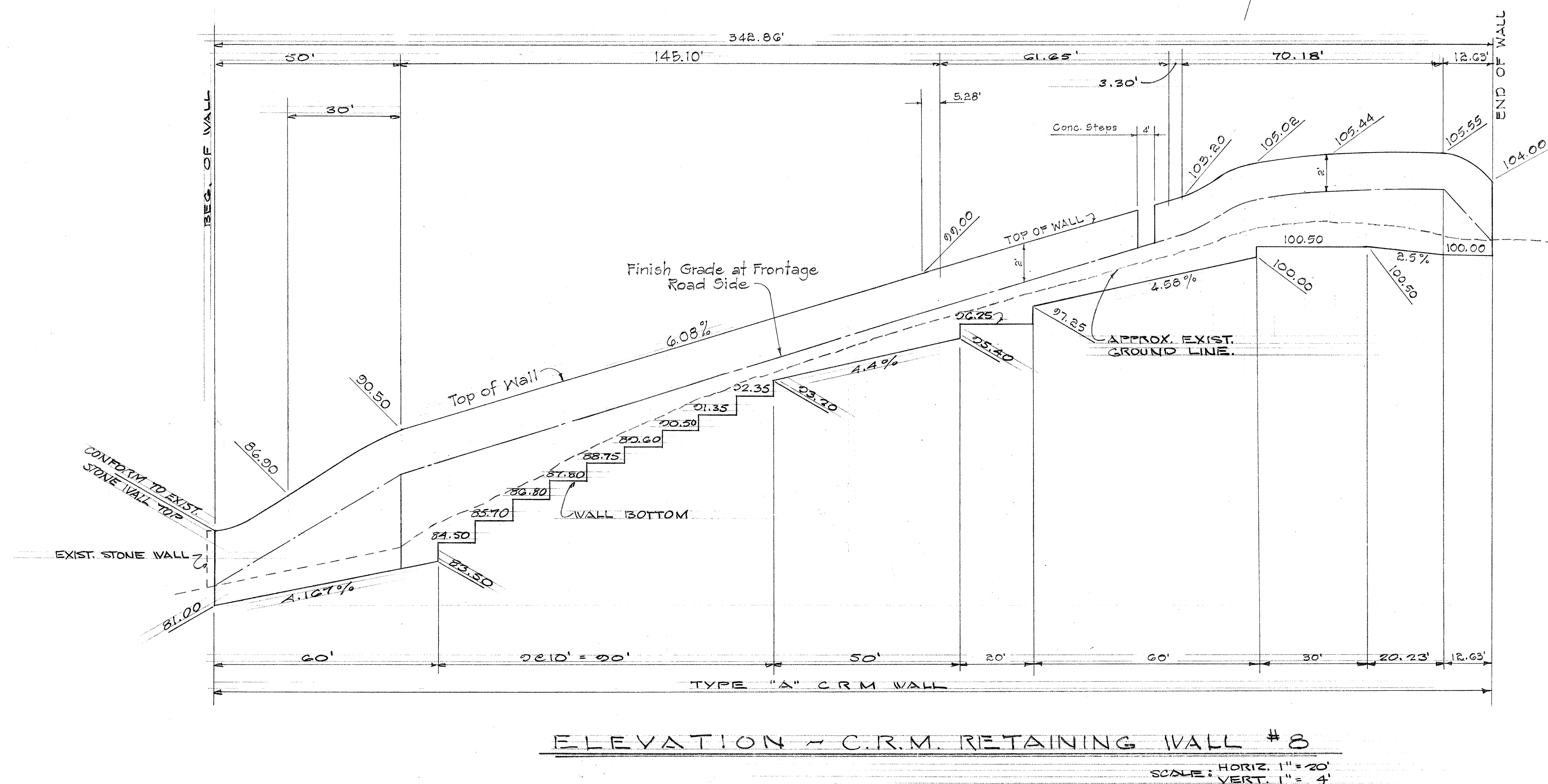


PROJ. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	1-HH-1(6) UNIT 2	1966	40	203



TYPICAL DETAIL OF CONCRETE WALK AND STEPS



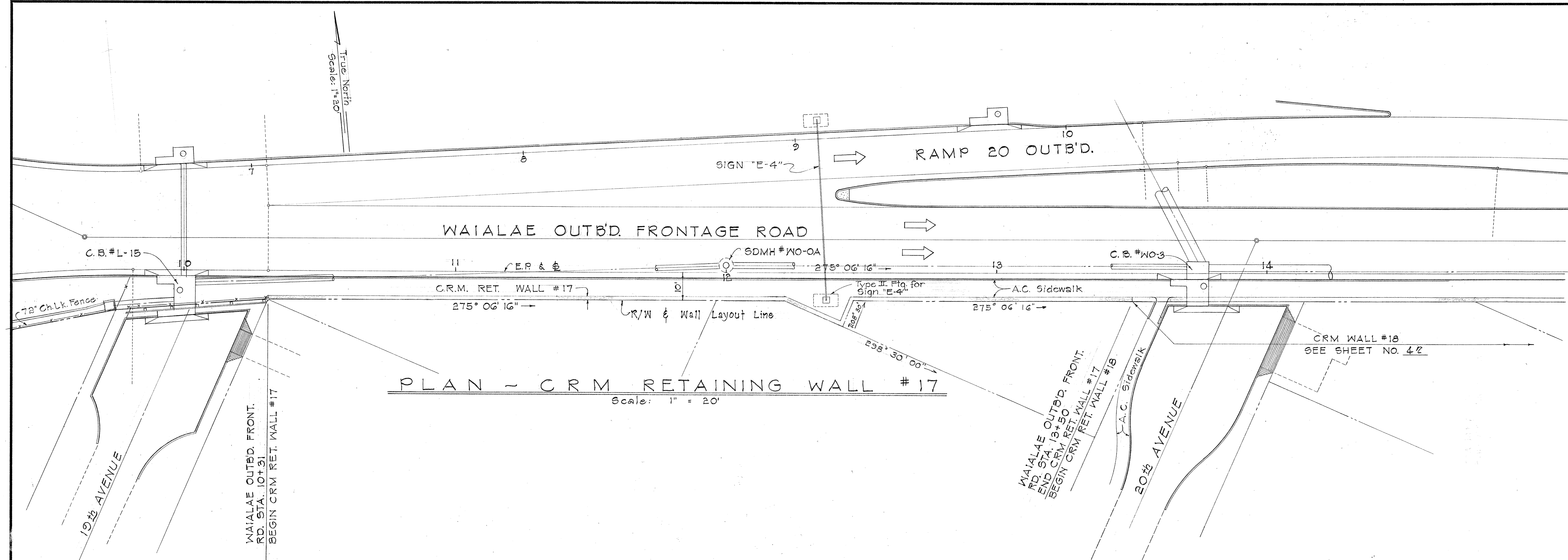
ELEVATION - C.R.M. RETAINING WALL #8

ORIGINAL PLAN	DATE
NOTED BY	
DESIGNED BY	
CHECKED BY	
DATE	

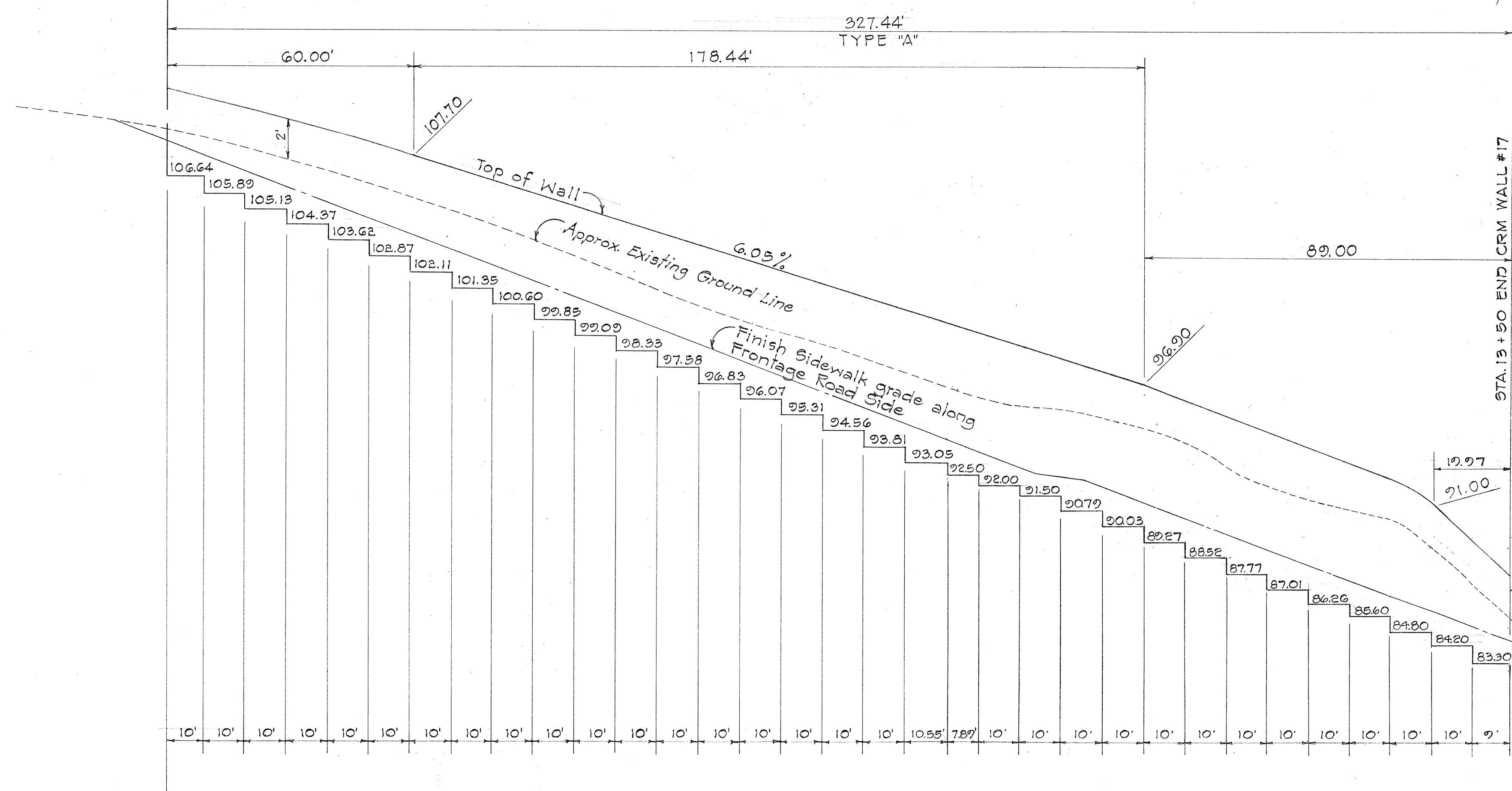
WILSON, OKAMOTO, OKA, INC.
PARK ASSOCIATES, INC.
ARCHITECTS & ENGINEERS

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
RETAINING WALLS	
C.R.M. RETAINING WALL #8	
PLAN & ELEVATION	
SCALE: AS SHOWN	PROJ. NO. 1-HH-1(6) UNIT 2 DATE: JANUARY, 1965
SHEET No. 1 OF 10 SHEETS	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	1-H-1(6) UNIT 2	1966	41	203



PLAN - CRM RETAINING WALL #17
Scale: 1" = 20'



ELEVATION - CRM RETAINING WALL #17
Scale: Horiz. 1" = 20'
Vert. 1" = 4'

NOTE:
FOR LOCATION AND DETAILS OF WALL CONSTRUCTION AT HIGHWAY LIGHTING LAMP POSTS, SEE SHEET NOS. 121 AND 122.

CRM WALLS #17 AND #18 SHALL BE CONSTRUCTED CONTINUOUS WITH NO BREAK BETWEEN WALLS.

ORIGINAL PLAN	DATE
DESIGNED BY	
TRACED BY	
NOTED BY	
CHECKED BY	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

RETAINING WALLS
CRM RETAINING WALL No. 17
PLAN AND ELEVATION

SCALE: AS SHOWN
DATE: JANUARY, 1965

PROJ. No. 1-H-1(6) UNIT 2
SHEET No. 2 OF 10 SHEETS

ORIGINAL PLAN	SURVEY PLOTTED BY _____	DATE _____
	DRAWN BY _____	" _____
NOTE BOOK	TRACED BY _____	" _____
	DESIGNED BY _____	" _____
	QUANTITIES BY _____	" _____
	CHECKED BY _____	" _____
No. _____	_____	

HAWAII HAW. I-H-1(10) UNIT 2 1966 42 203

NOTE:
FOR LOCATION AND DETAILS OF WALL AND
CHAIN LINK FENCE CONSTRUCTION AT
HIGHWAY LIGHTING LAMP POSTS, SEE
SHT. NOS. 121 AND 122.

PLAN - CRM RETAINING WALL #18
SCALE: 1" = 20'

ELEVATION - CRM RETAINING WALL #18
SCALE: HORIZ. 1" = 20'
VERT. 1" = 4'

DETAIL OF 6" TRANSITE DRAIN PIPE THRU CRM WALL
SCALE: 3/8" = 1'-0"

DETAIL OF PIPE CULVERT UNDER CRM WALL
SCALE: 1/2" = 1'-0"

NOTES

1. Premolded Joint Filler shall conform to the requirements of Section 46, Concrete Structures, of the Standard Specification.
2. Premolded Joint Filler shall be incidental to the CRM wall.

**STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION**

**RETAINING WALLS
CRM RETAINING WALL NO 18
PLAN & ELEVATION**

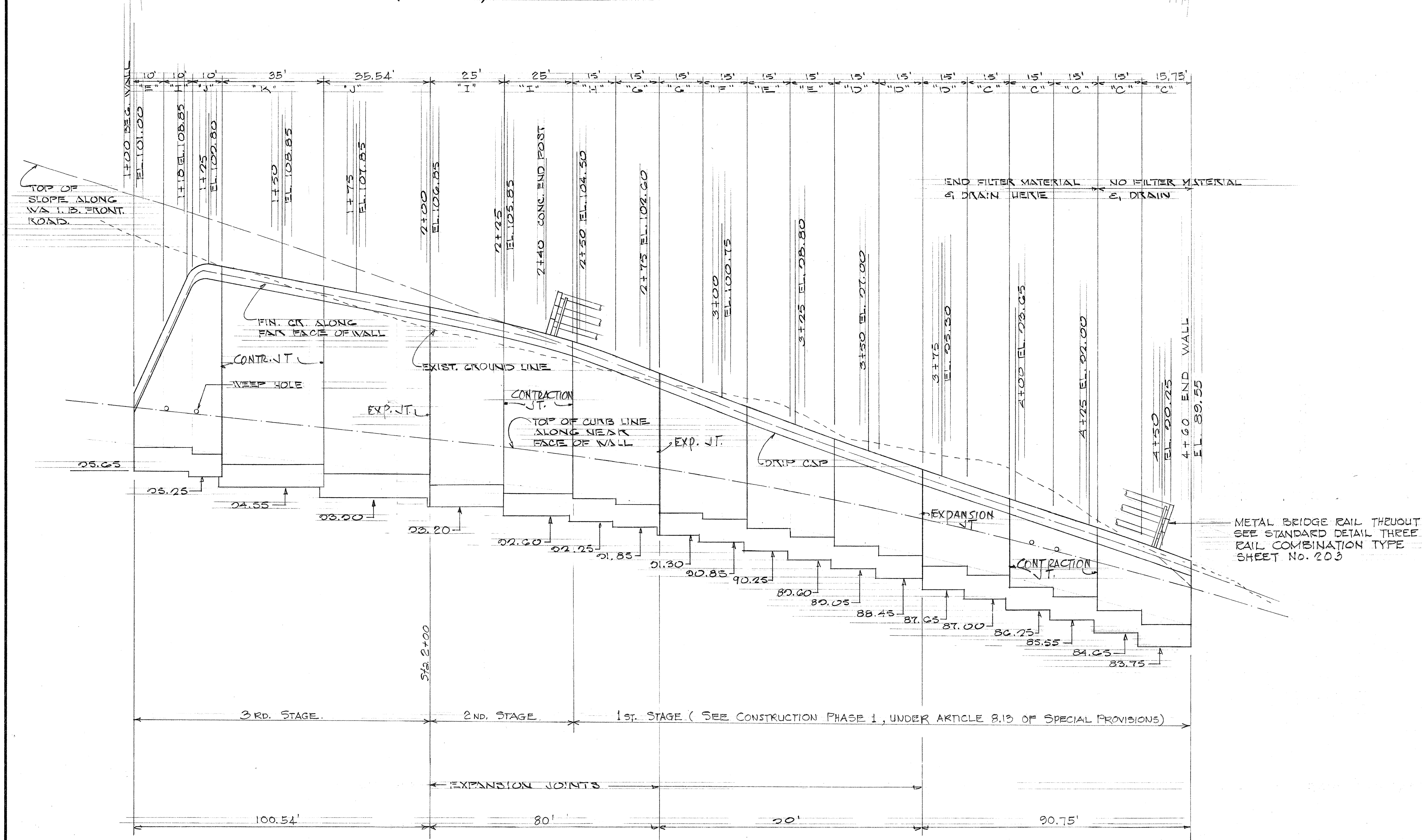
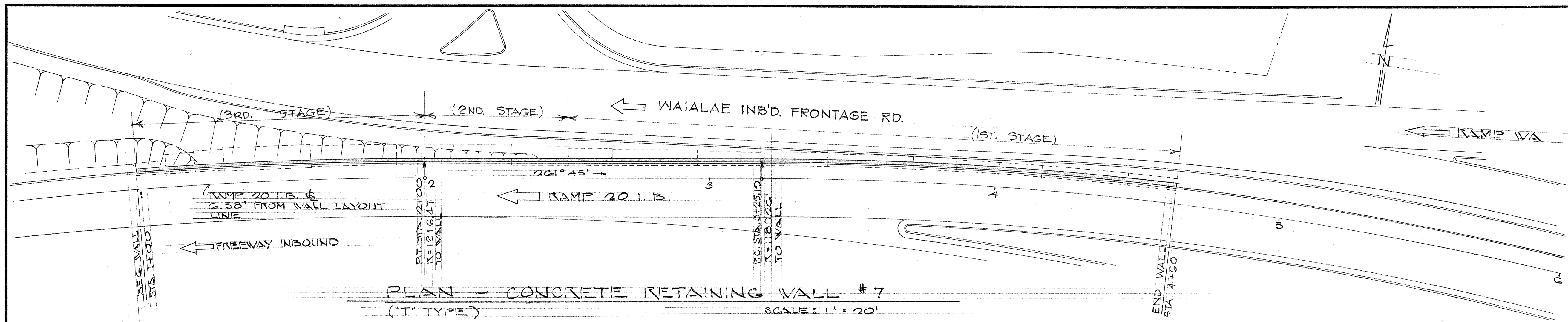
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

RETAINING WALLS

CRM RETAINING WALL NO 18
PLAN & ELEVATION

PROJ. No. I-HH(2) UNIT 2
SCALE: AS SHOWN DATE: JANUARY, 1965

SHEET No. 3 OF 10 SHEETS



ESTIMATED QUANTITIES	
Concrete - Class A-1	Lump Sum (258.0 c.y.)
Reinforcing Steel	Lump Sum (15,217.0 lbs.)
Structural Excavation	348.0 c.y.
Filter Material	58.5 c.y.
Railing (Metal)	204.0 L.F.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

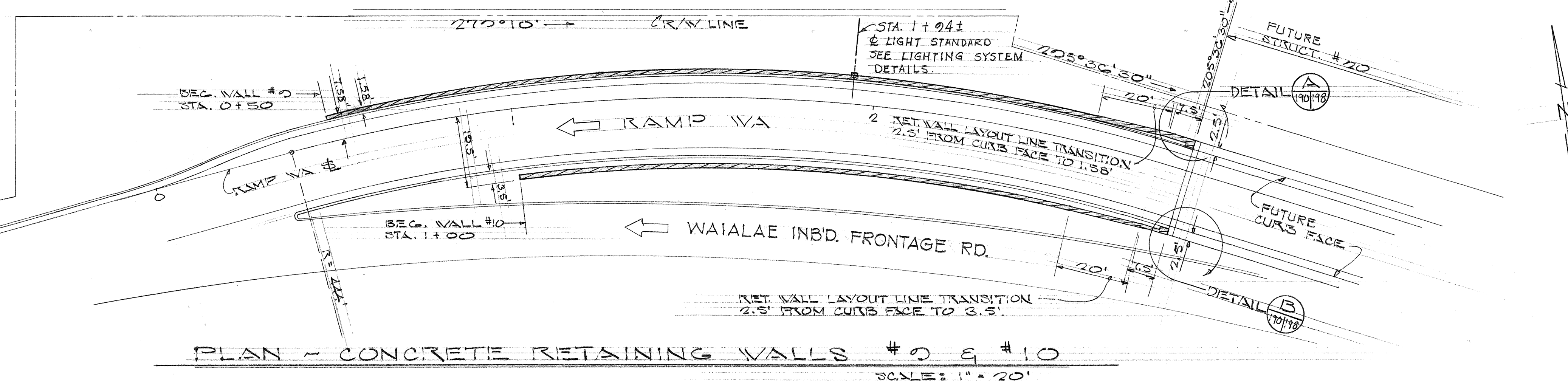
RETAINING WALLS

REINFORCED CONCRETE RETAINING WALL NO. 7

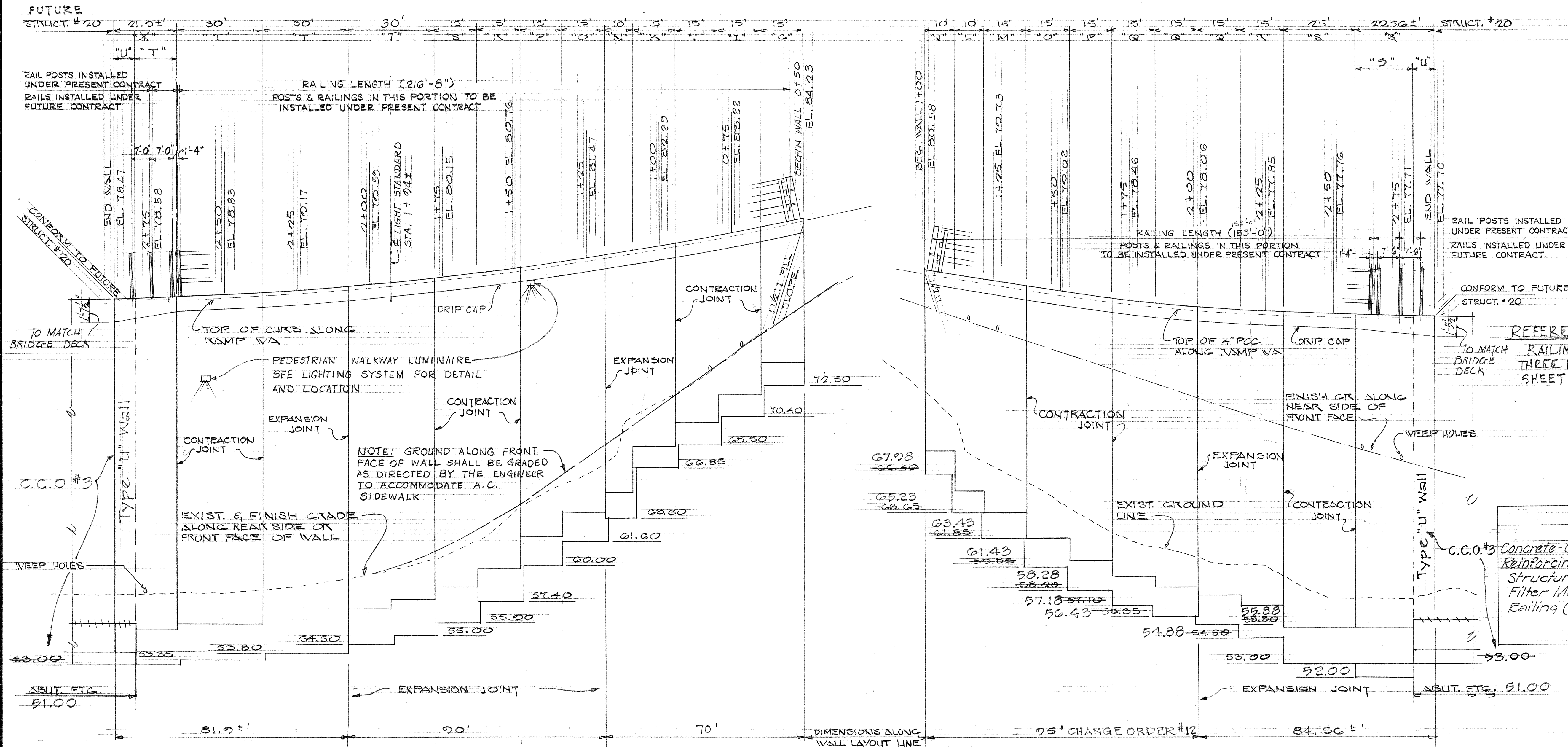
PLAN & ELEVATION

SCALE: AS SHOWN
DATE: JUNE 1965

PROJ. No. I-HI-1(6) UNIT 2
DATE: JUNE 1965



PLAN - CONCRETE RETAINING WALLS #9 & #10
SCALE: 1" = 20'



ELEVATION - CONC. RETAINING WALL #9

("T" TYPE)
3" DRIP PROJECTION SEE SHT. #49

SCALE: HORIZ. 1" = 20'
VERT. 1" = 4'

ELEVATION - CONC. RETAINING WALL #10

("T" TYPE)
3" DRIP PROJECTION SEE SHT. #49

SCALE: HORIZ. 1" = 20'
VERT. 1" = 4'

REFERENCE NOTES
RAILING ON WALLS TO BE METAL BRIDGE RAILING
THREE RAIL COMBINATION TYPE SEE STD DETAILS
SHEET No. 203

ESTIMATED QUANTITIES		
	Wall #9	Wall #10
Concrete - Class A-1	Lump Sum (428.0 c.y.)	(358.0 c.y.)
Reinforcing Steel	Lump Sum (55,620.0 lbs.)	(36,800.0 lbs.)
Structural Excavation	581.0 c.y.	407.0 c.y.
Filter Material	150.0 c.y.	20.0 c.y.
Railing (Metal)	218.0 L.F.	154.0 L.F.

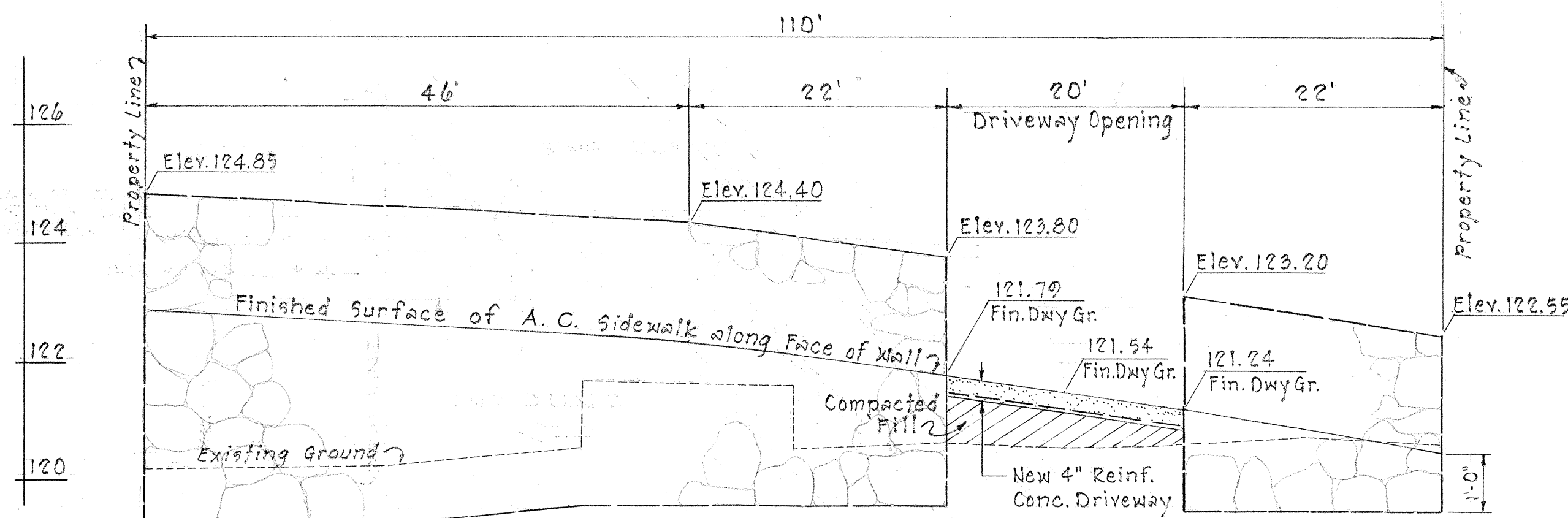
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
RETAINING WALLS
NO. 9 & NO. 10
PLAN & ELEVATION

PROJ. NO. I-11-1(6) UNIT 2
DATE: JANUARY 1965
SCALE: AS SHOWN

SHEET No. 5 OF 10 SHEETS

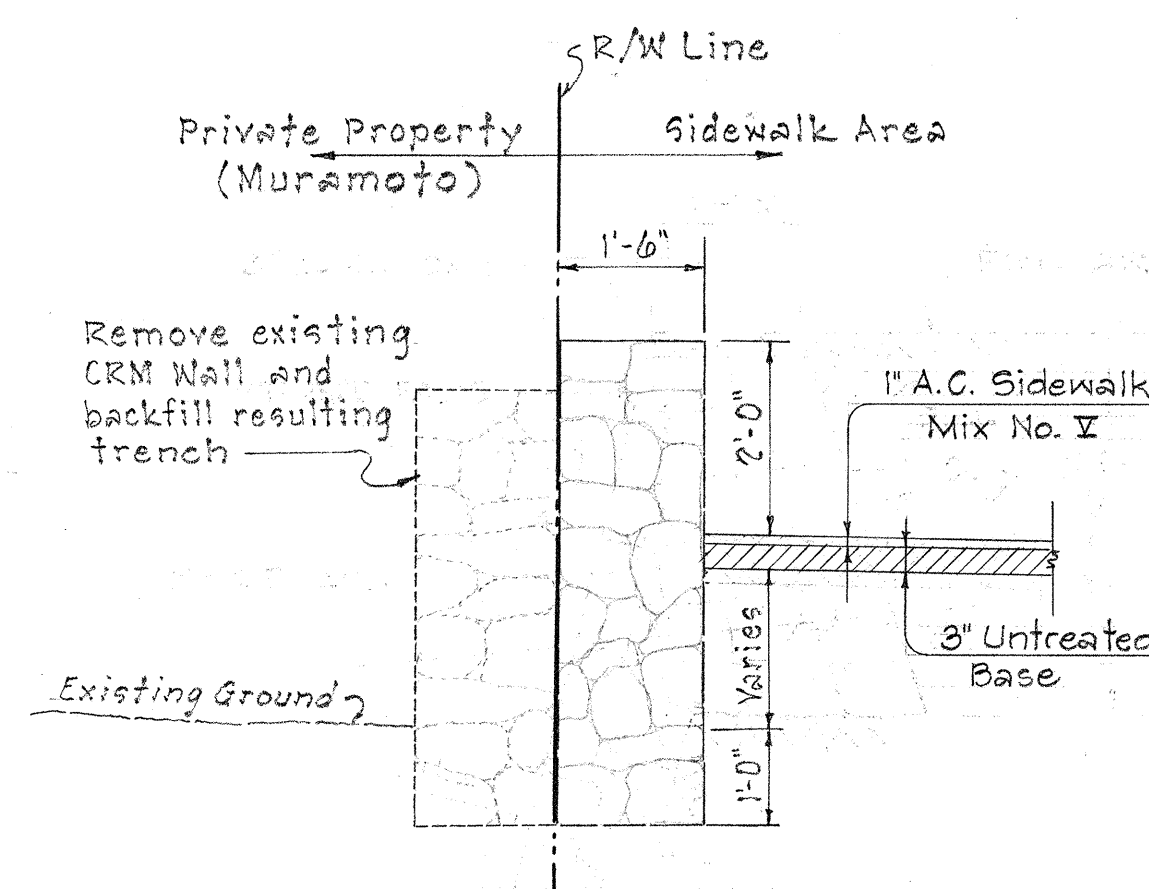
DATE	_____
SURVEY PLOTTED BY	_____
DESIGNED BY	_____
NOTED BY	_____
CHECKED BY	_____
ORIGINAL PLAN	_____
NOTE BOOK	_____
No.	_____

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-11-1(6) UNIT 2	1966	45	203



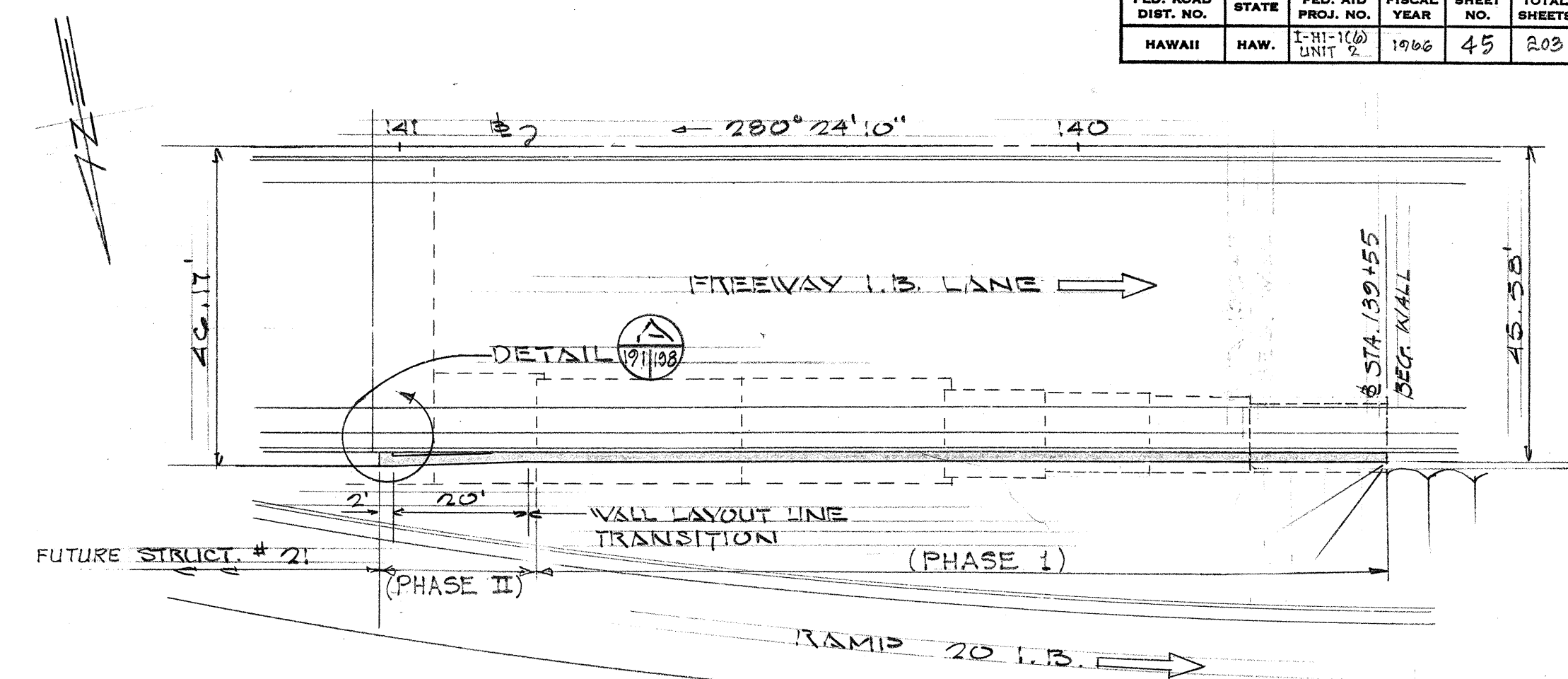
PROFILE - CRM WALL #5

Scale: Hor. 1" = 10'
Ver. 1" = 2'



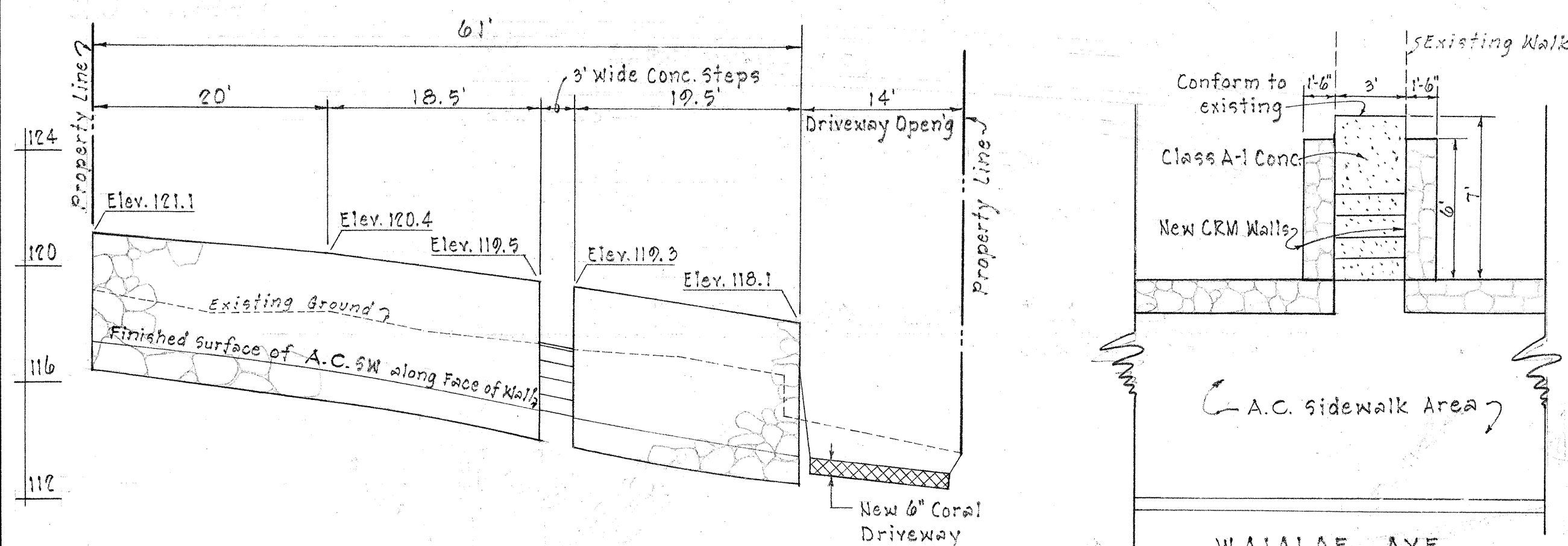
WALL SECTION

Scale: 1" = 2'



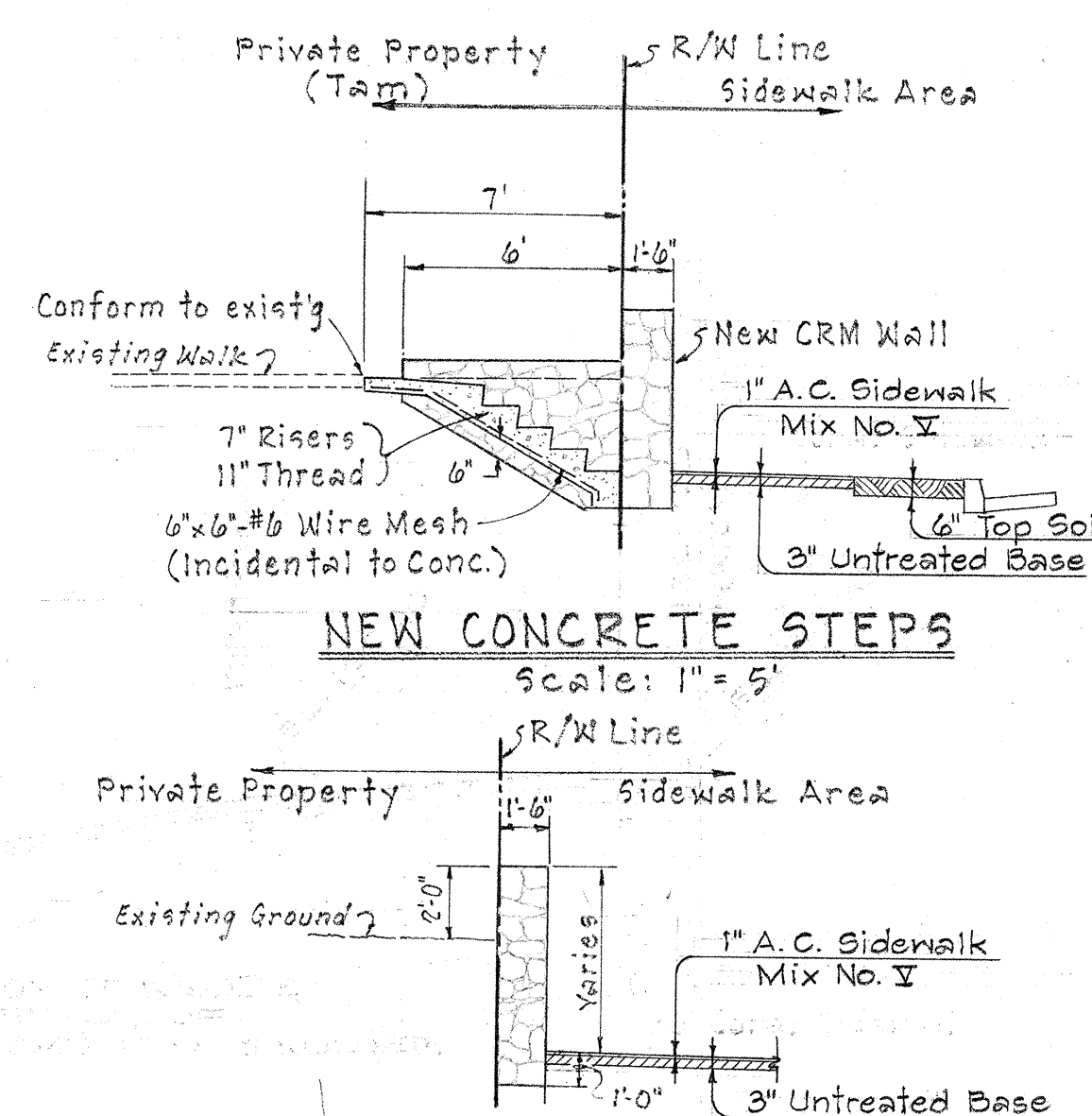
PLAN - CONC. RETAINING WALL #11

Scale: 1" = 20'



PROFILE - CRM WALL #6

Scale: Hor. 1" = 10'
Ver. 1" = 4'

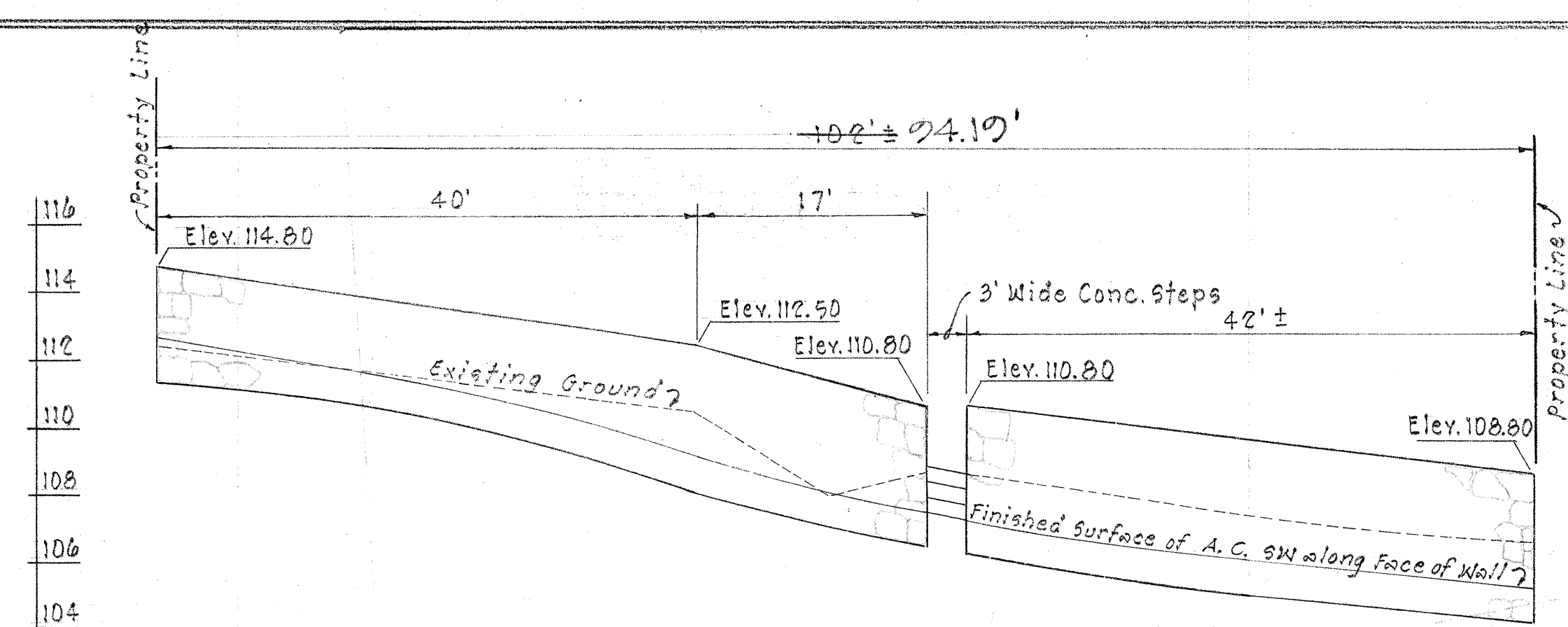


WALL SECTION ALONG FRONTAGE

Scale: 1" = 5'

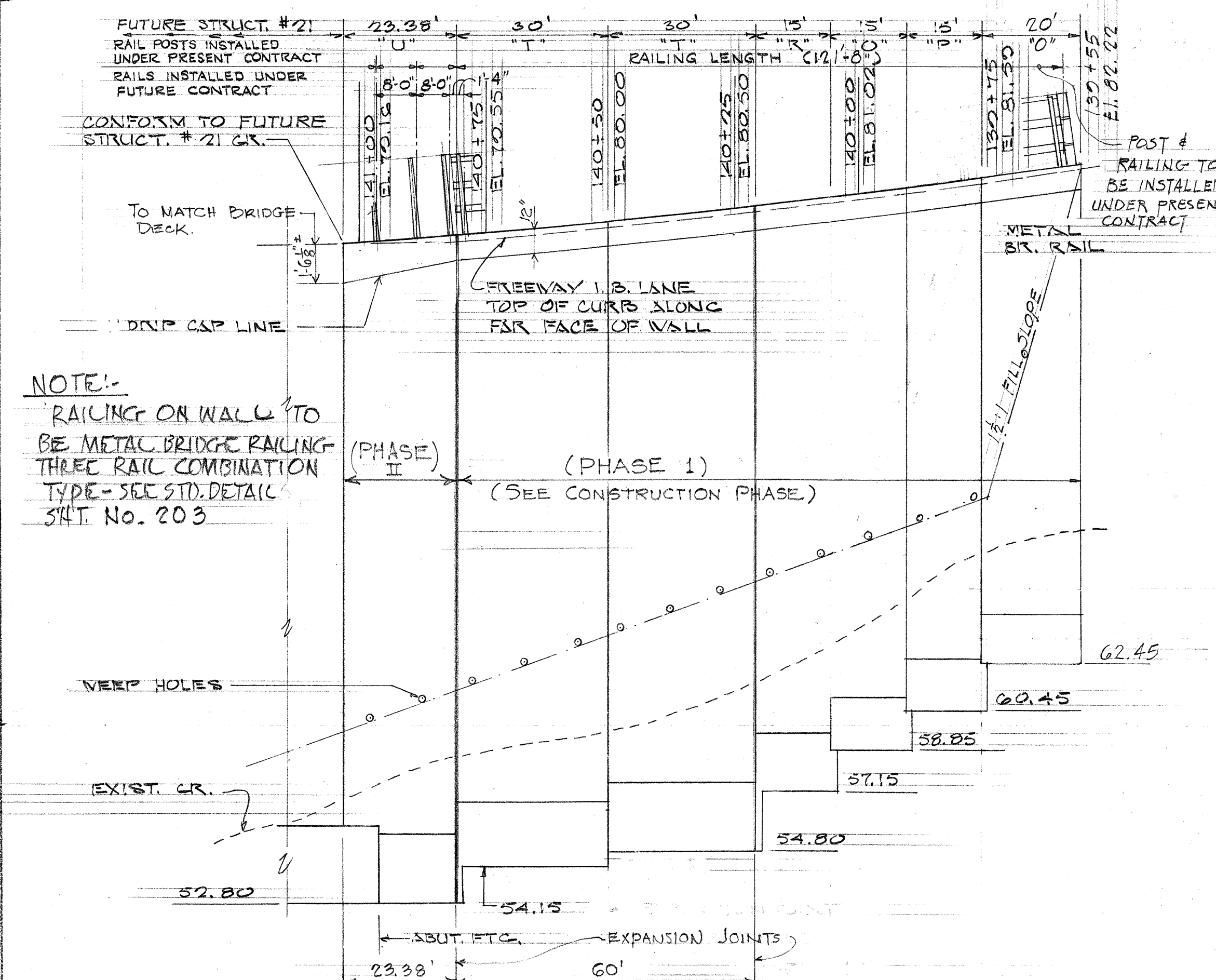
PLAN - CONCRETE STEPS

Scale: 1" = 5'



PROFILE - CRM WALL #7

Scale: Hor. 1" = 10'
Ver. 1" = 4'



ELEVATION - CONC. RETAINING WALL #11

Scale: Horiz. 1" = 20'
Vert. 1" = 4'

ESTIMATED QUANTITIES

Concrete - Class A-1	Lump Sum	346.0 c.y.
Reinforcing Steel	Lump Sum	41,800.0 lbs.
Structural Excavation		416.0 c.y.
Filter Material		60.0 c.y.
Railing (Metal)		122.0 c.y.

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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

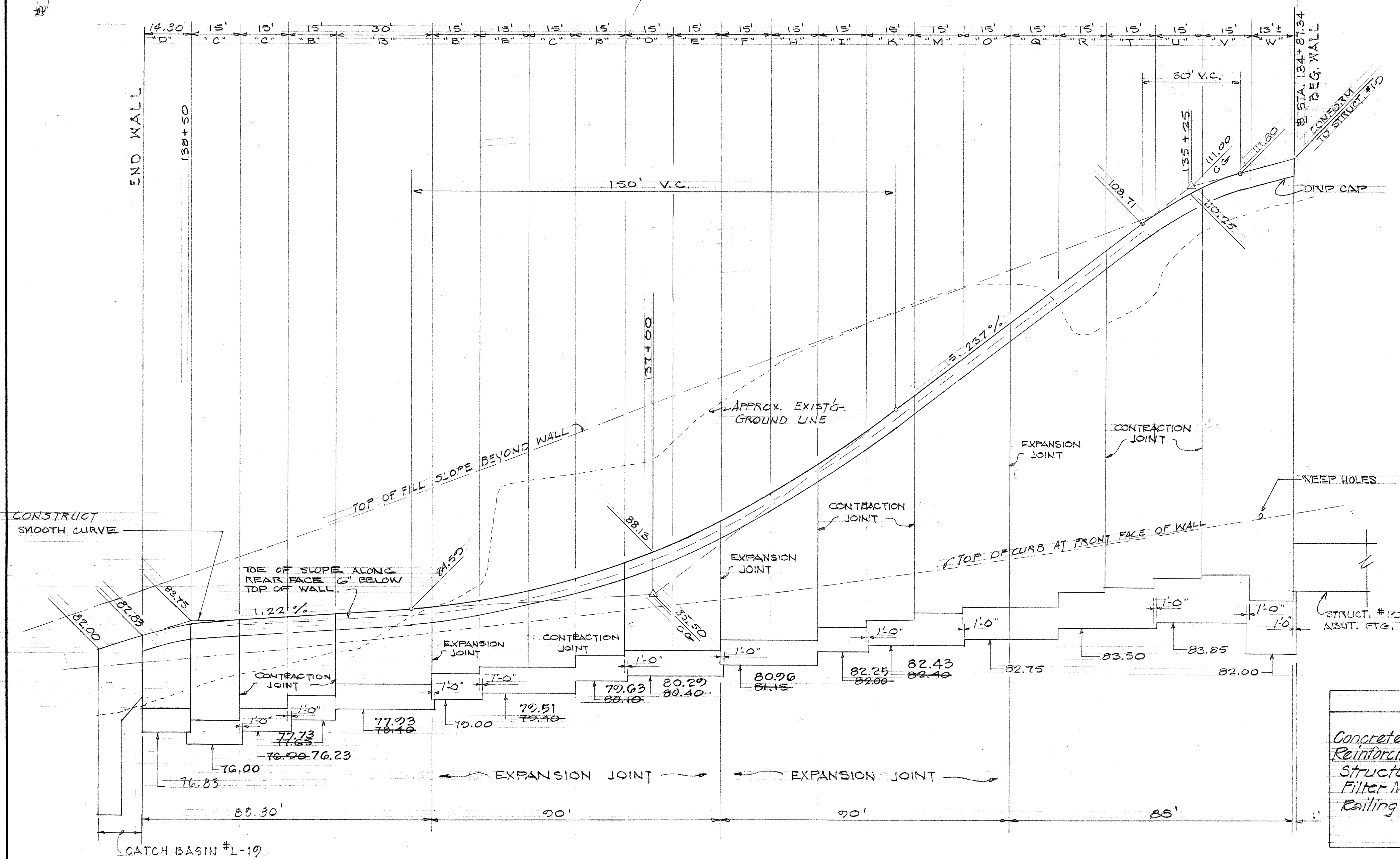
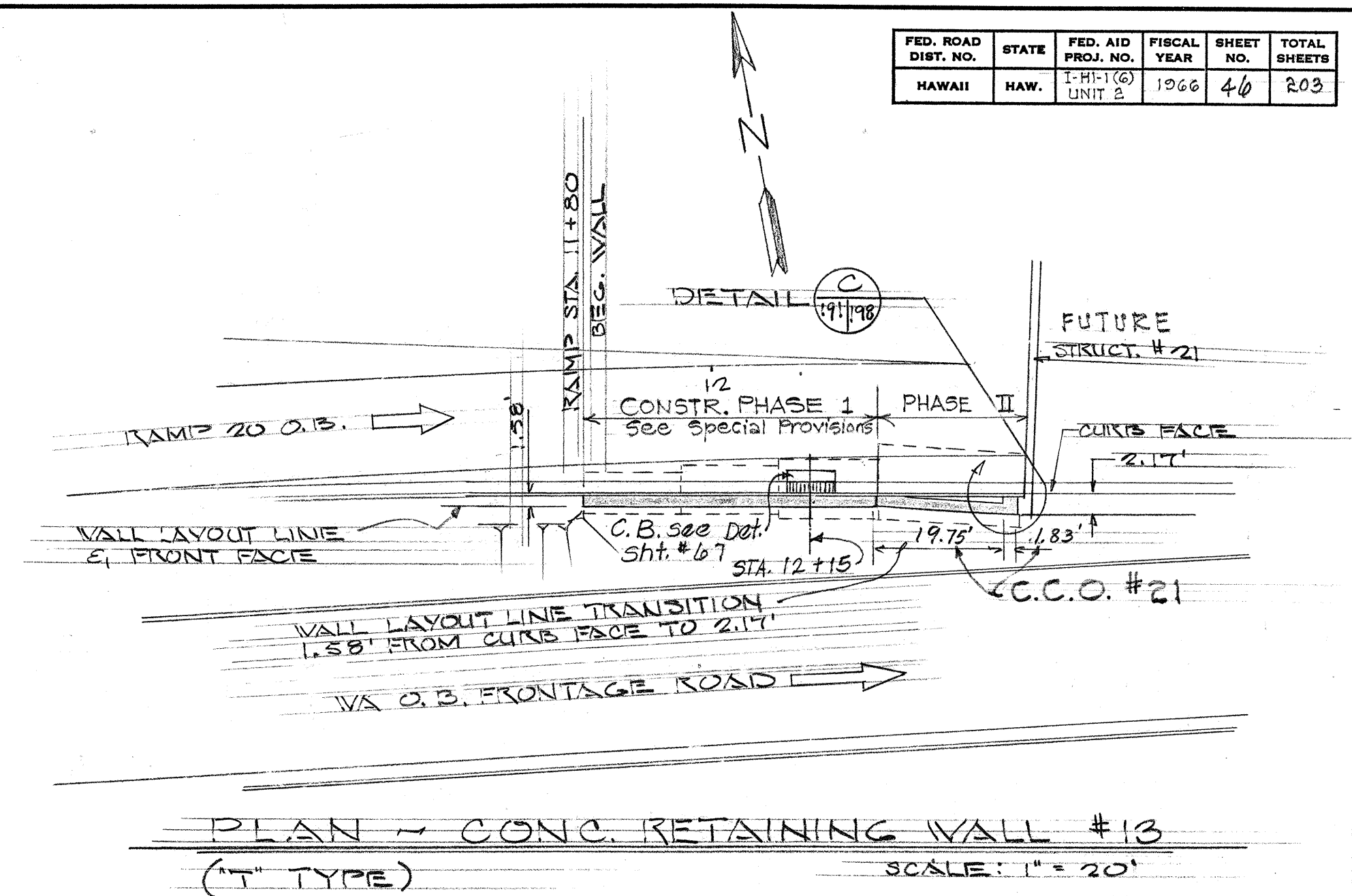
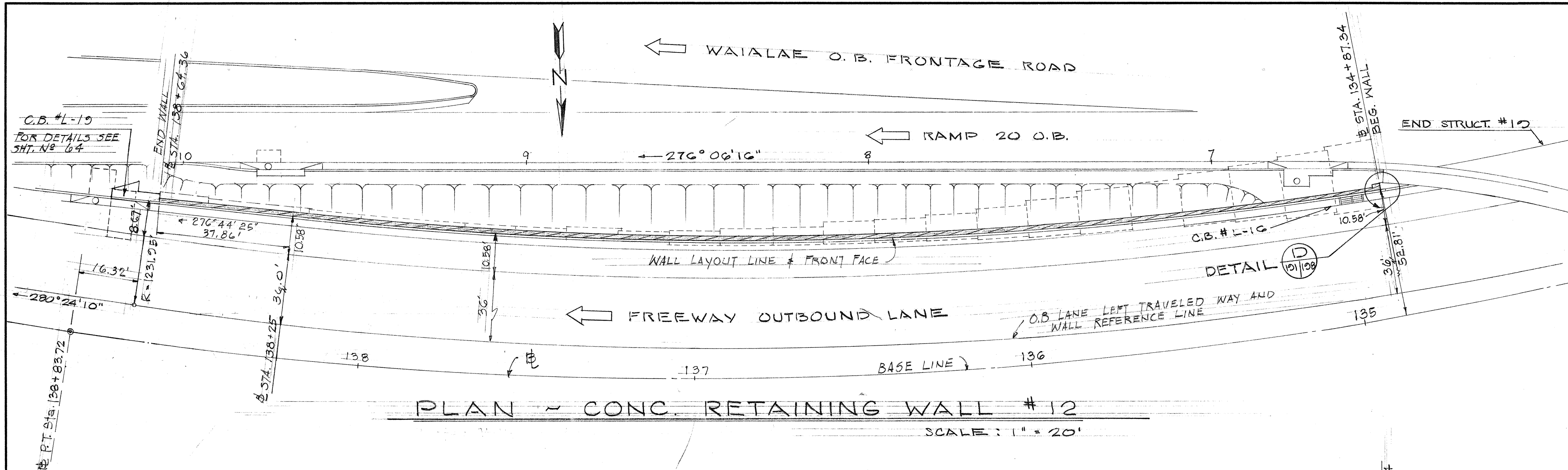
RETAINING WALLS
CRM WALLS #5, #6, #7, AND
REINFORCED CONCRETE RETAINING WALL #11
PLAN & ELEVATION

Scale: AS SHOWN
Date: JANUARY, 1965

SHEET No. 6 OF 10 SHEETS

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

FED. ROAD DIST. NO.	STATE	FED. AID YEAR	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	1966	UNIT 2	46	203



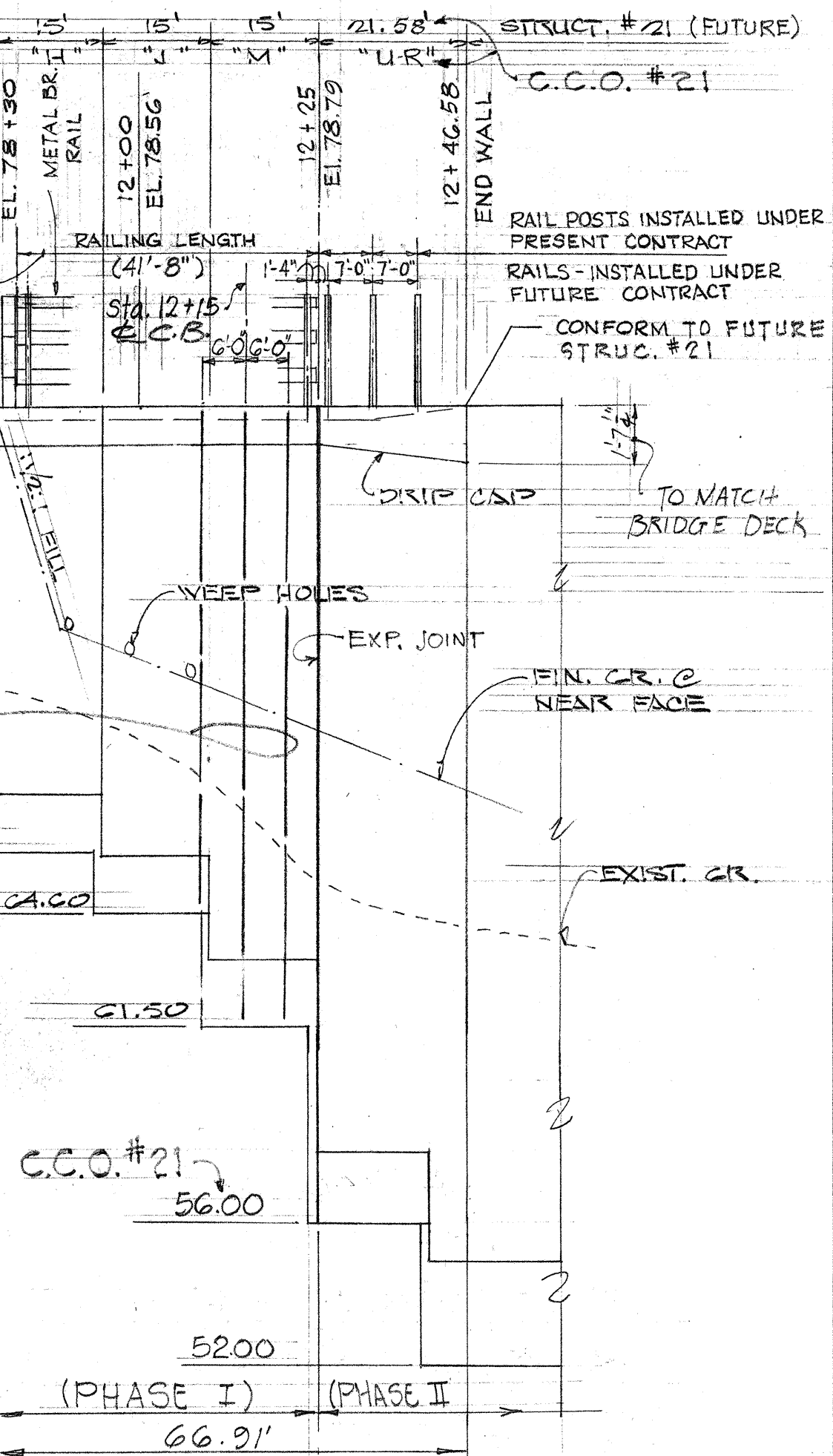
NOTE:
RAILING ON WALL TO BE
METAL BRIDGE RAILING THREE
RAIL COMBINATION TYPE. SEE
STD. DETAIL SHT. NO. 203

SEE SHT. #67 FOR SPECIAL
FRONT FACE REINF. DETAIL

4" DRIP PROTECTION SEE SHT. #49

ESTIMATED QUANTITIES		
	Wall #12	Wall #13
Concrete - Class A-1	Lump Sum (\$26.0 cy)	(82.0 cy)
Reinforcing Steel	Lump Sum (\$1,317.0 lbs)	(7,123.0 lbs)
Structural Excavation	1,525.0 c.y.	140.0 c.y.
Filter Material	21.0 c.y.	17.0 c.y.
Railing (Metal)	0	42.0 L.F.

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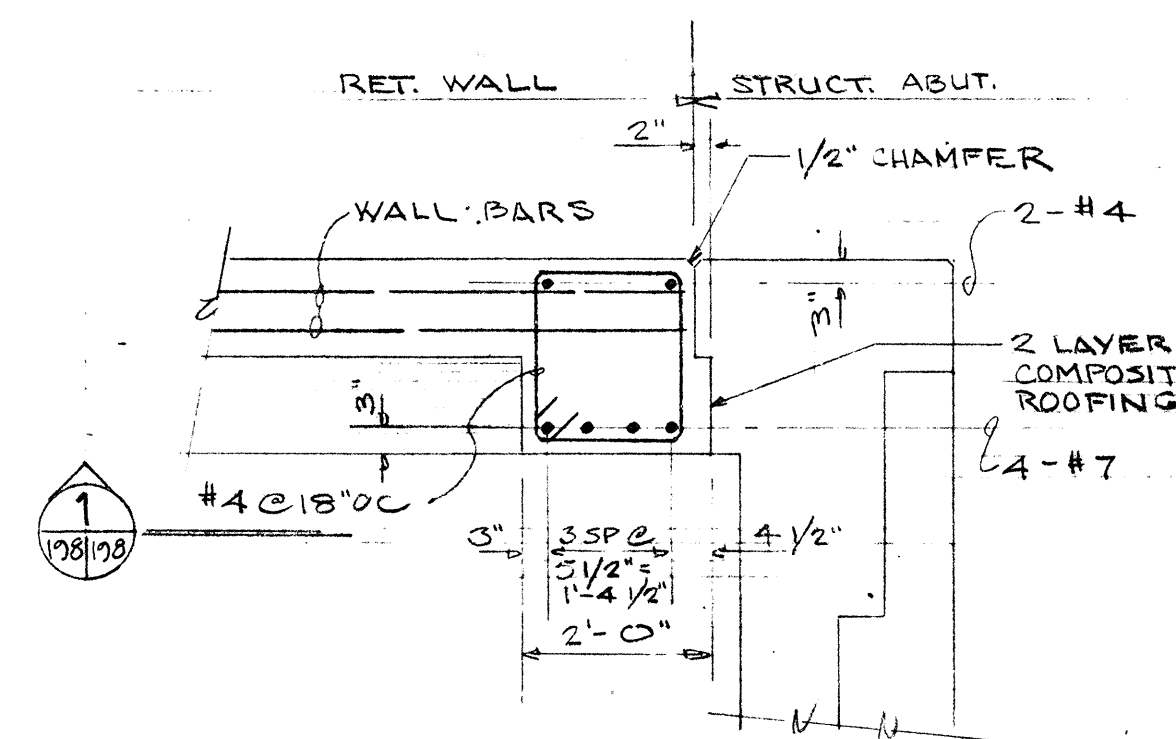


ELEVATION - CONC. RETAINING WALL #13
(T TYPE) Scale: Horiz. 1" = 20', Vert. 1" = 4'

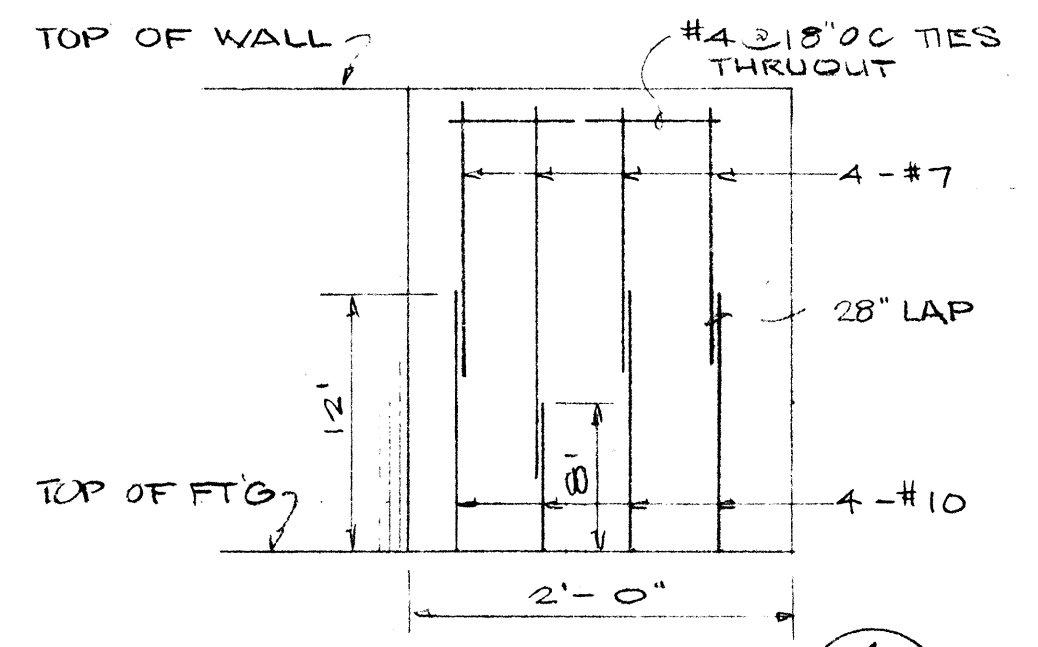
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
RETAINING WALLS
REINFORCED CONCRETE RETAINING WALLS
NO. 12 AND 13
PLAN & ELEVATION
SCALE: AS SHOWN
PROJ. NO. I-H-1(6) UNIT 2
DATE: JANUARY, 1965
SHEET No. 7 OF 10 SHEETS

SURVEY PLOTTED BY	DATE
DESIGNED BY	
TRACED BY	
NOTE BOOK	
QUANTITIES BY	
CHECKED BY	

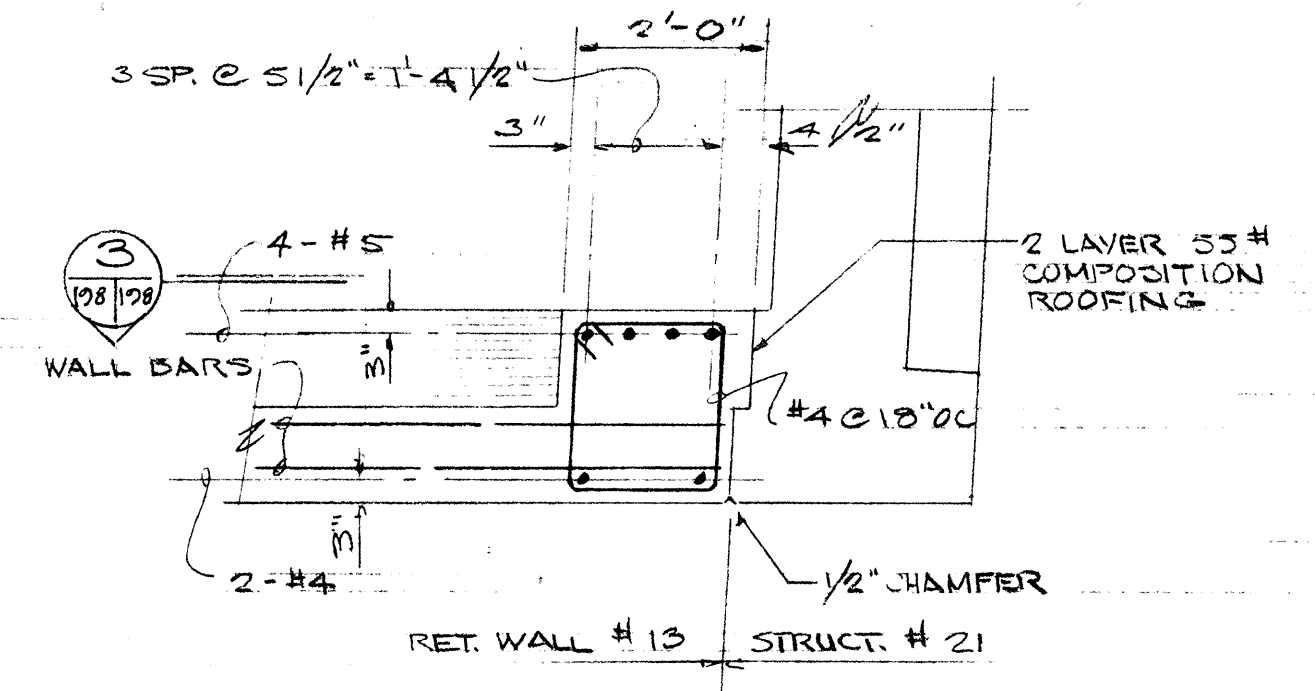
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H-1(6) UNIT 2	1966	47	203



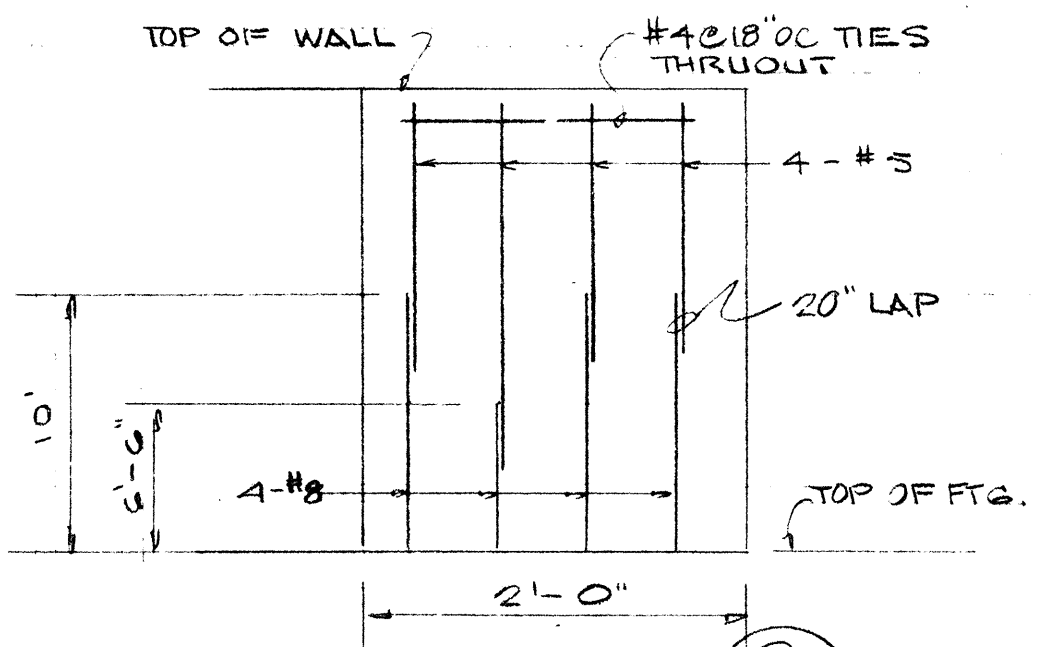
DETAIL A
SCALE: 1/2" = 1'-0"
100/108



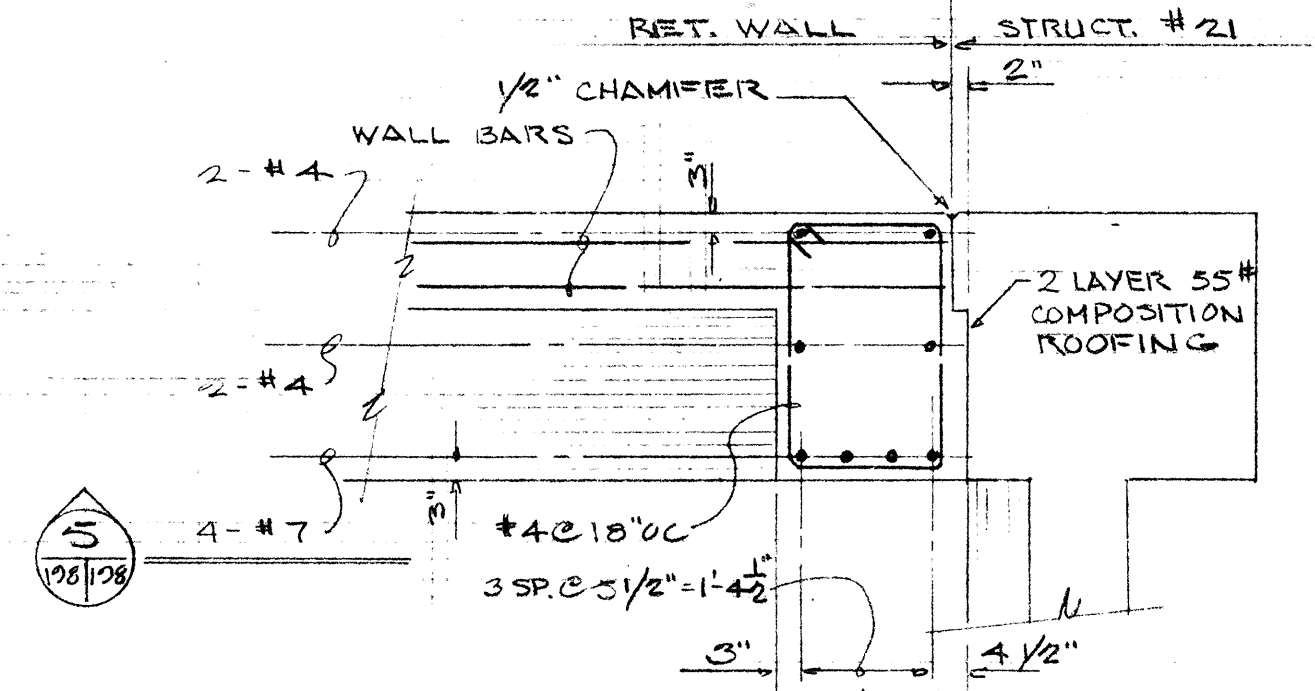
SECTION 1
NO SCALE
108/108



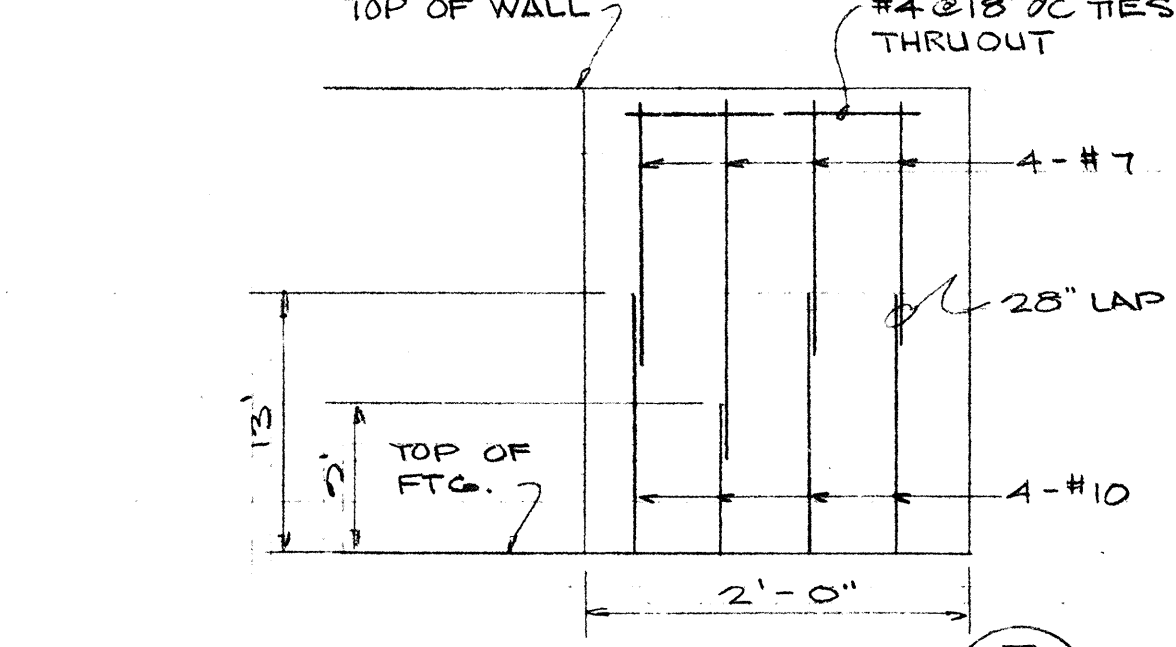
DETAIL B
SCALE: 1/2" = 1'-0"
188/108



SECTION 3
NO SCALE
108/108

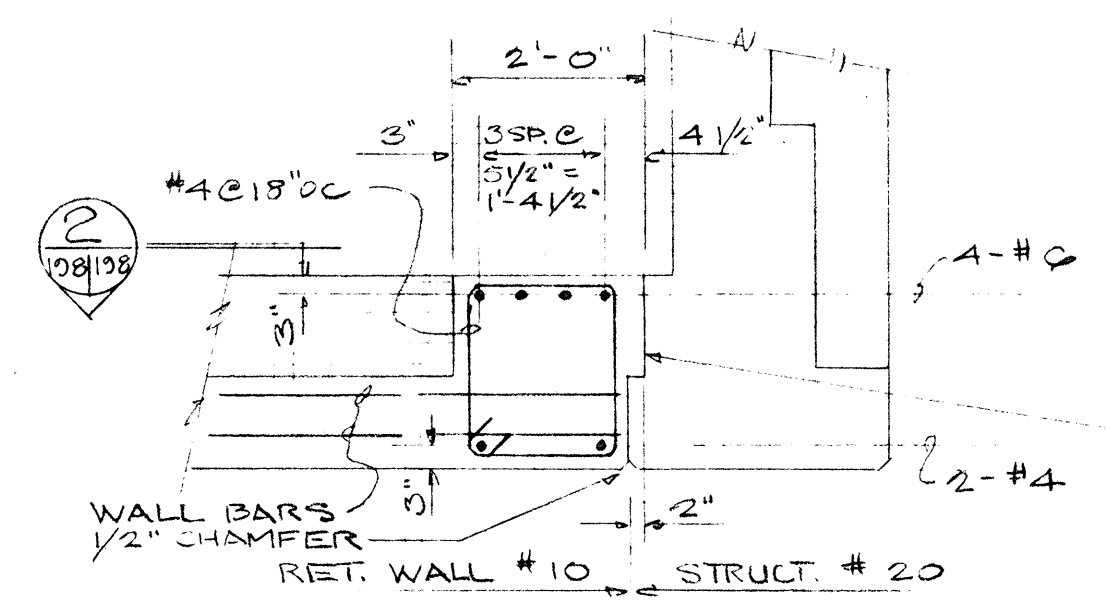


DETAIL C
SCALE: 1/2" = 1'-0"
103/108

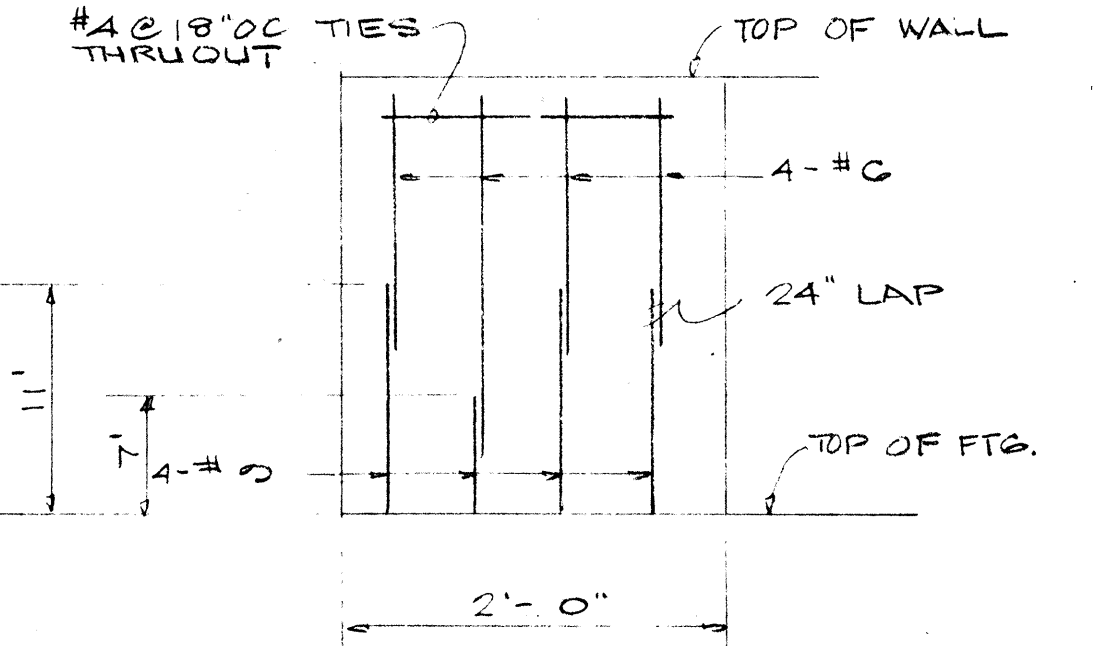


SECTION 5
NO SCALE
108/108

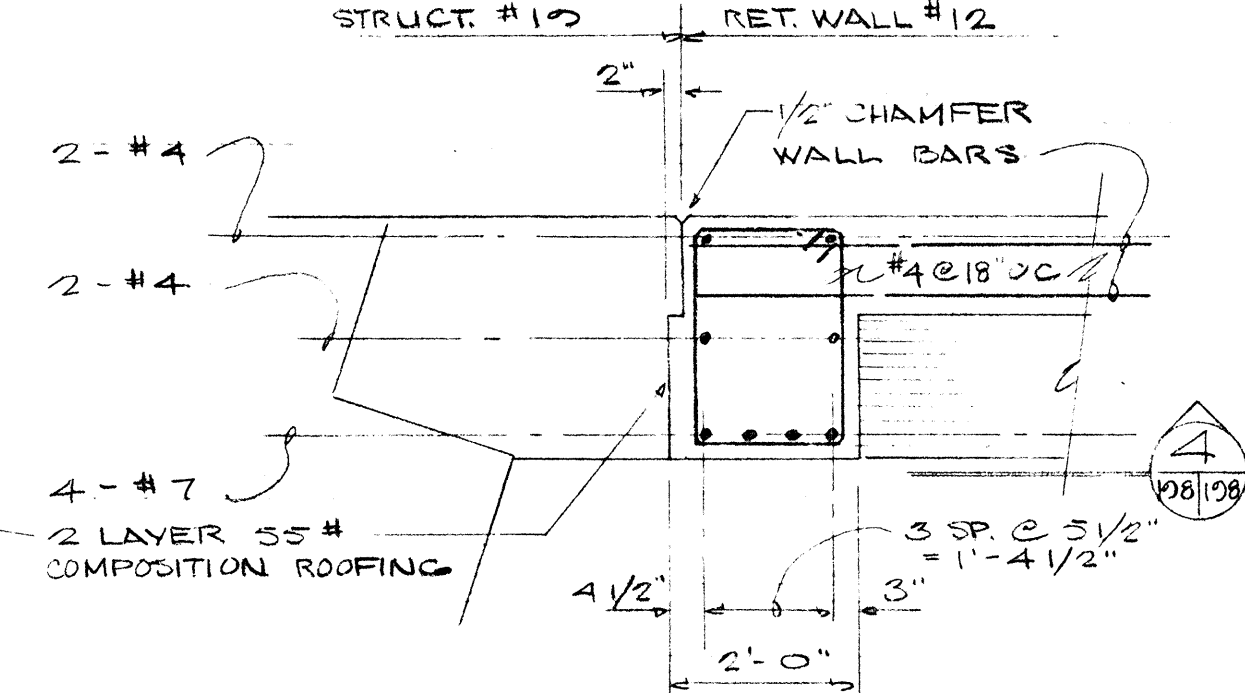
NOTE:
REINFORCING IN THE FOOTINGS OF THESE SECTIONS TO BE ARRANGED NORMAL AND AS SHOWN ON THE STANDARD RETAINING WALL DETAILS UNLESS NOTED OTHERWISE.



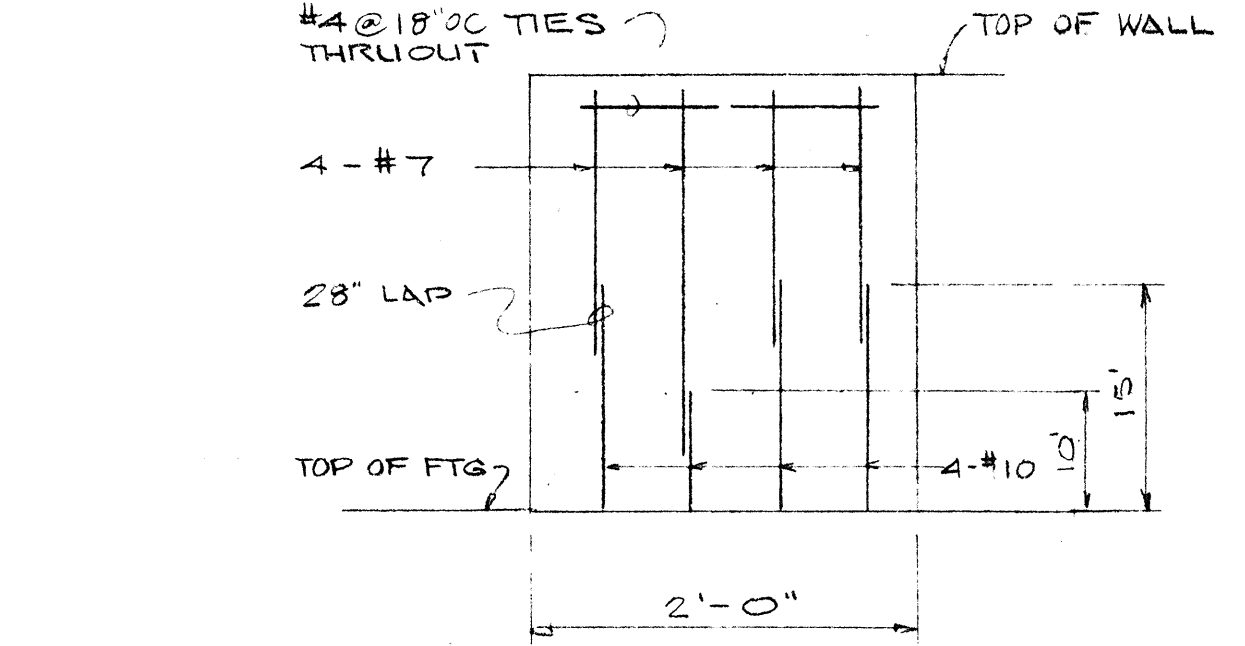
DETAIL D
SCALE: 1/2" = 1'-0"
100/108



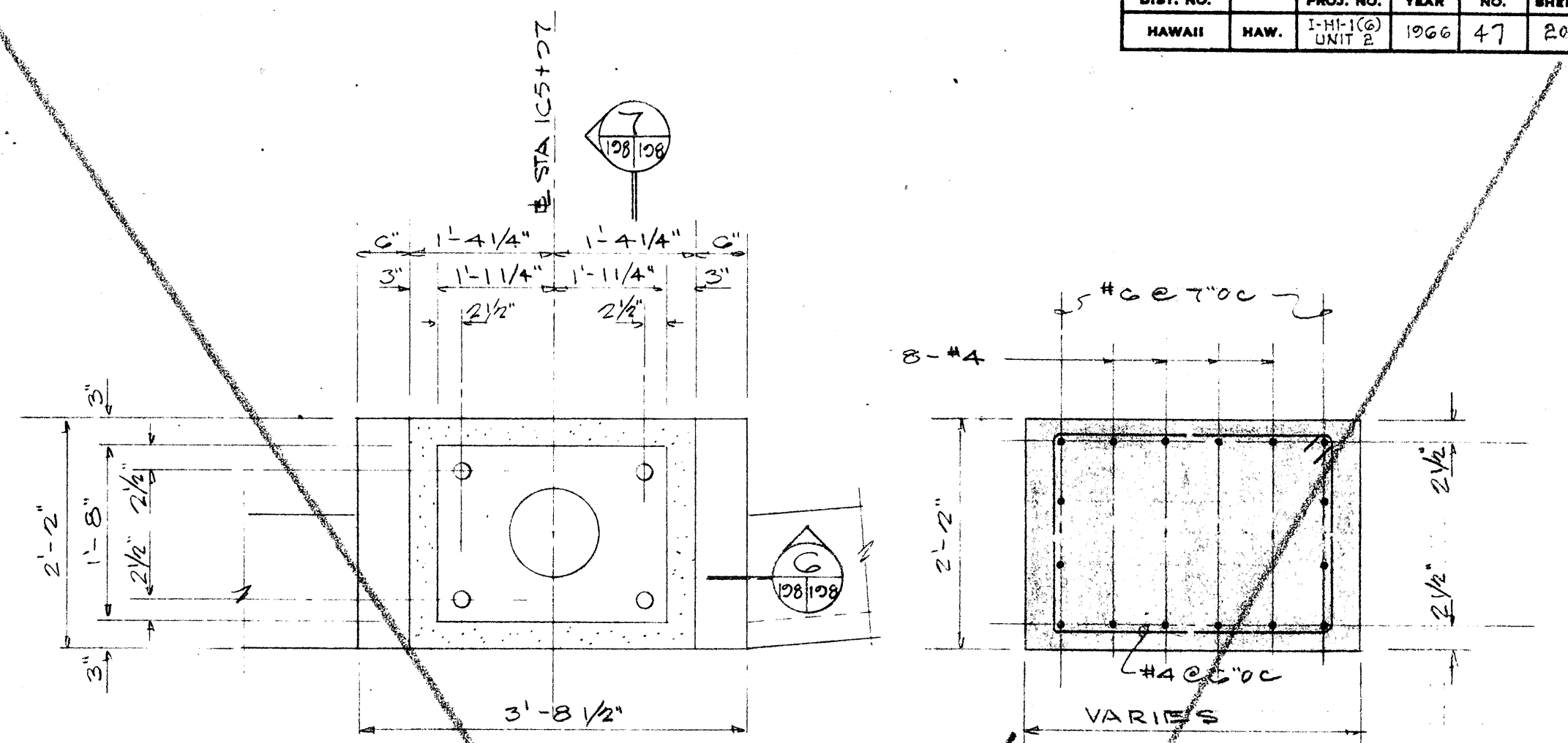
SECTION 2
NO SCALE
108/108



DETAIL E
SCALE: 1/2" = 1'-0"
101/108

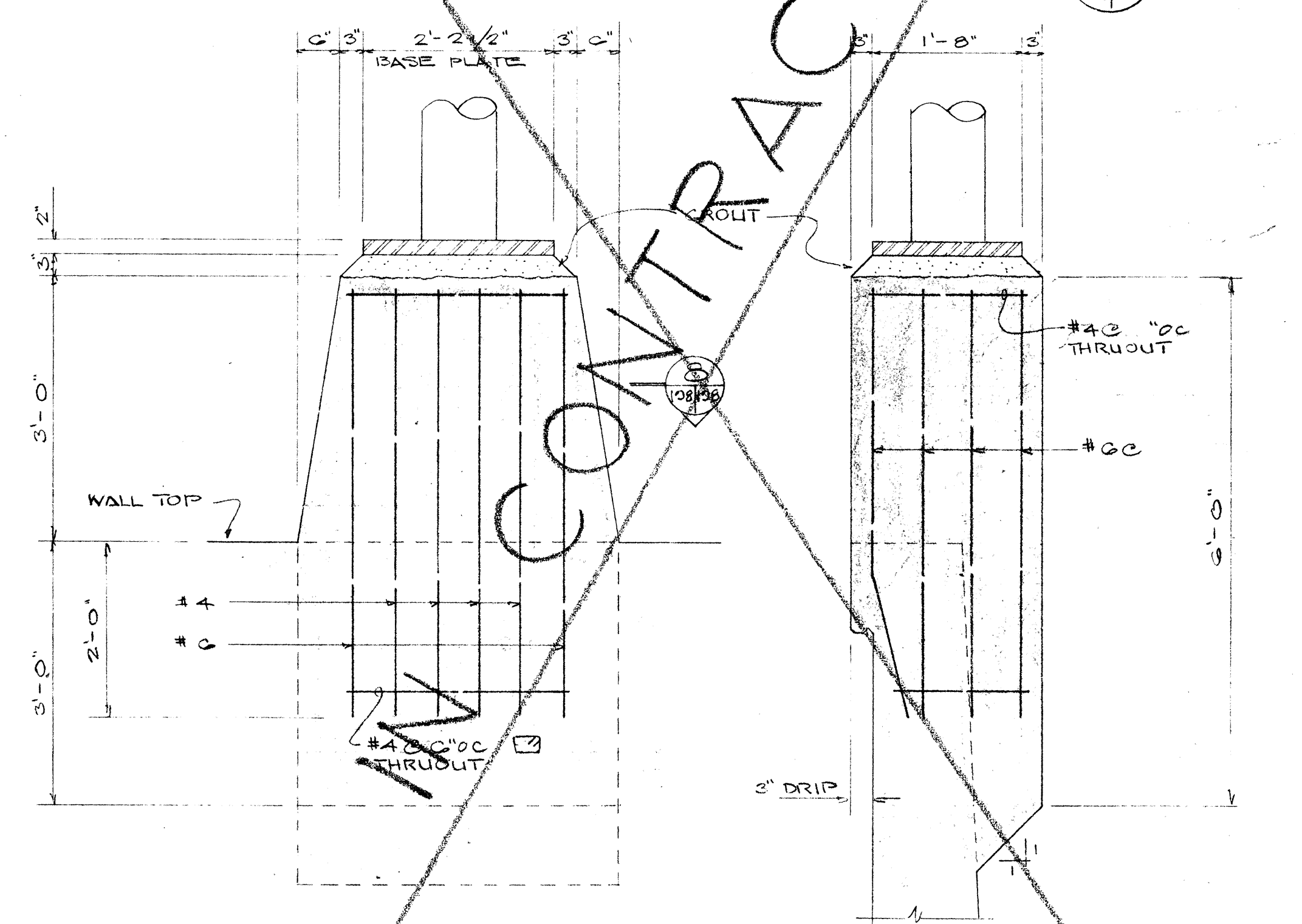


SECTION 4
NO SCALE
108/108



PLAN

SECTION 8
108/108



SECTION 6
108/108

SECTION 7
108/108

BASE FOR SIGN E-5

DETAIL G
SCALE: 3/4" = 1'-0"
103/108

NOT

WILSON, OKAGAKI, OKA, INC.
PARTNERS, INC.
ARCHITECTS & ENGINEERS

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

RETAINING WALL
CONNECTION DETAILS
TO ABUTMENT

SCALE: AS SHOWN
PROJ. NO. I-H-1(6) UNIT 2
DATE: JANUARY, 1965
SHEET No. 8 OF 10 SHEETS

ORIGINAL PLAN	DATE
DESIGNED BY	DATE
QUANTITIES BY	DATE
CHECKED BY	DATE

