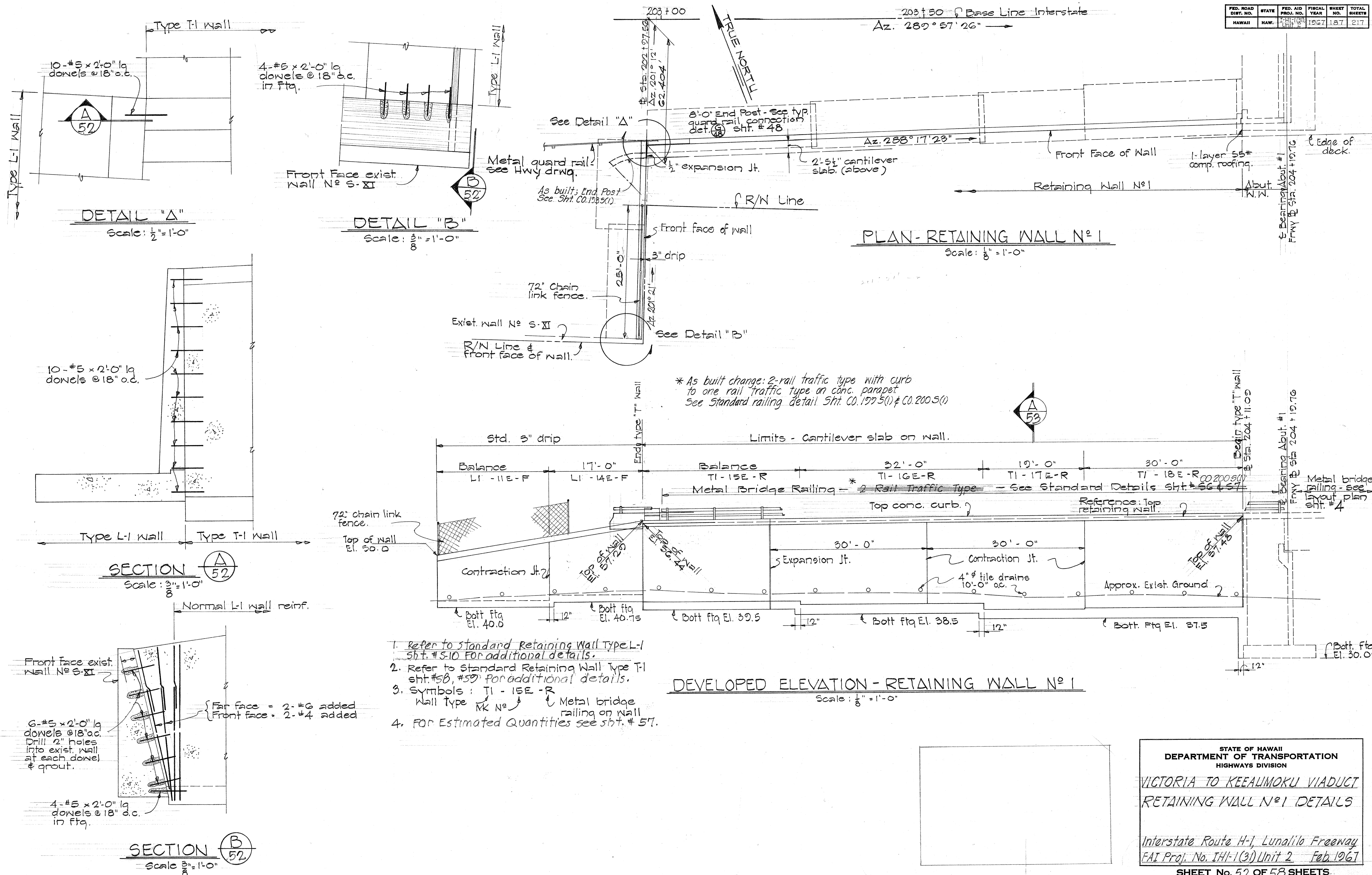


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(31) Unit 2	1967	187	217



ORIGINAL PLAN	SURVEY PLOTTED BY <u>SY</u>	DATE <u>4 JAN 67</u>
NOTE BOOK	DRAWN BY _____	" _____
	TRACED BY _____	" _____
	DESIGNED BY <u>LS</u>	" _____
	QUANTITIES BY <u>SY</u> ✓	" _____
No. _____	CHECKED BY <u>SK</u>	" _____

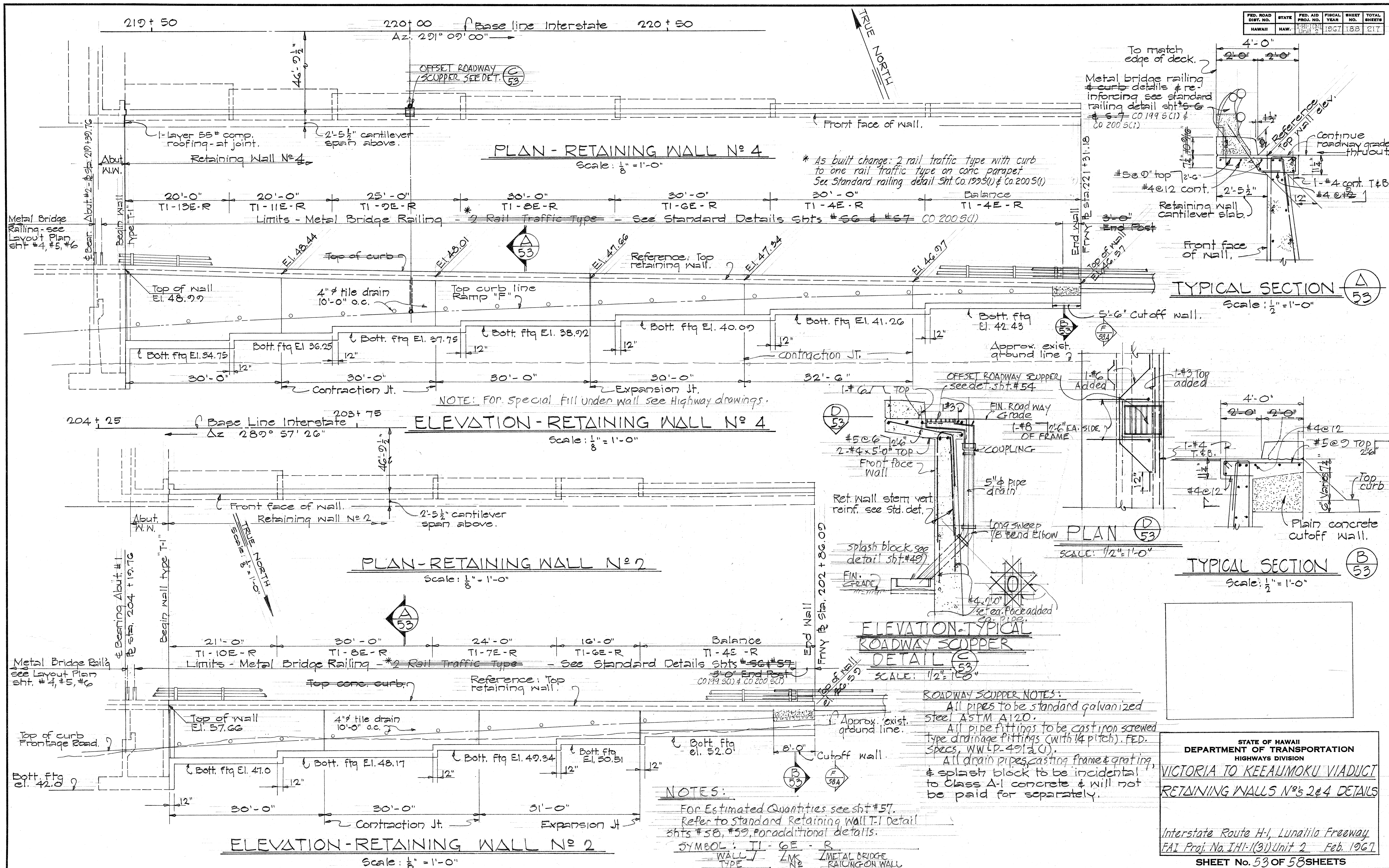
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

VICTORIA TO KEEAUMOKU VIADUCT
RETAINING WALL NO. 1 DETAILS

Interstate Route H-1, Lunalilo Freeway
FAI Proj. No. IH-1(3) Unit 2 Feb. 1967

SHEET No. 52 OF 58 SHEETS.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOT SHE
HAWAII	HAW.	I-HI-1(31) Unit 2	1967	188	21



ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
	DRAWN BY <u>SY</u>	<u>JAN. 27</u>
NOTE BOOK	DESIGNED BY	"
	QUANTITIES BY <u>LC</u>	"
	CHECKED BY <u>PK</u>	"
No. _____		"

BOILED ON NO. 10001 CLEARBAIN

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

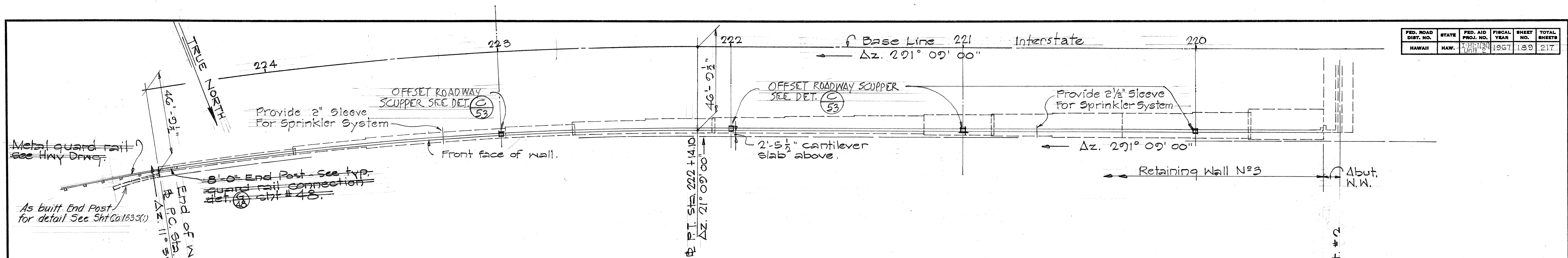
VICTORIA TO KEEAUMOKU VIADUCT
RETAINING WALLS N^os 2 & 4 DETAILS

Interstate Route H-1, Lunalilo Freeway
FAI Proj. No. IHI-1(31) Unit 2 Feb. 1967

SHEET No. 53 OF 58 SHEETS

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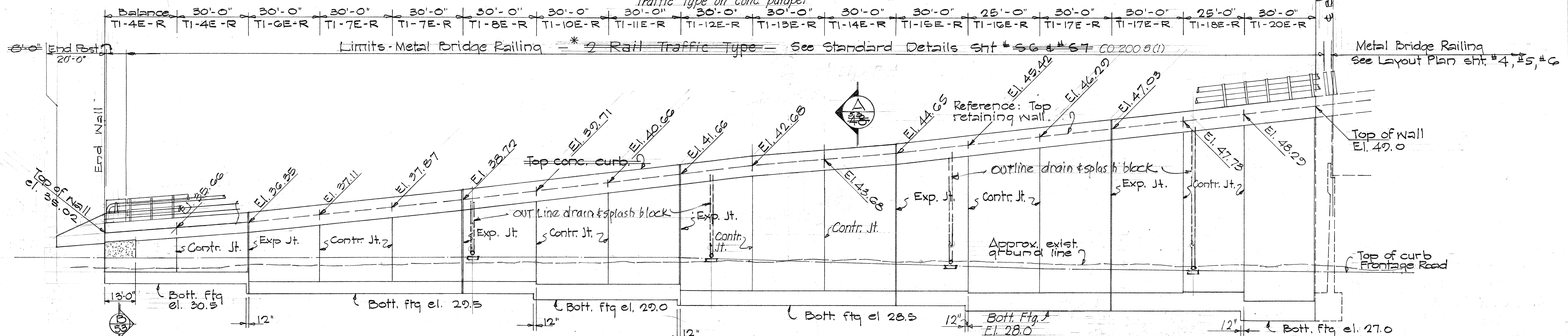
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	1-181(3) Unit 2	1967	189	217



PLAN - RETAINING WALL N°3

Scale: 1" = 20'

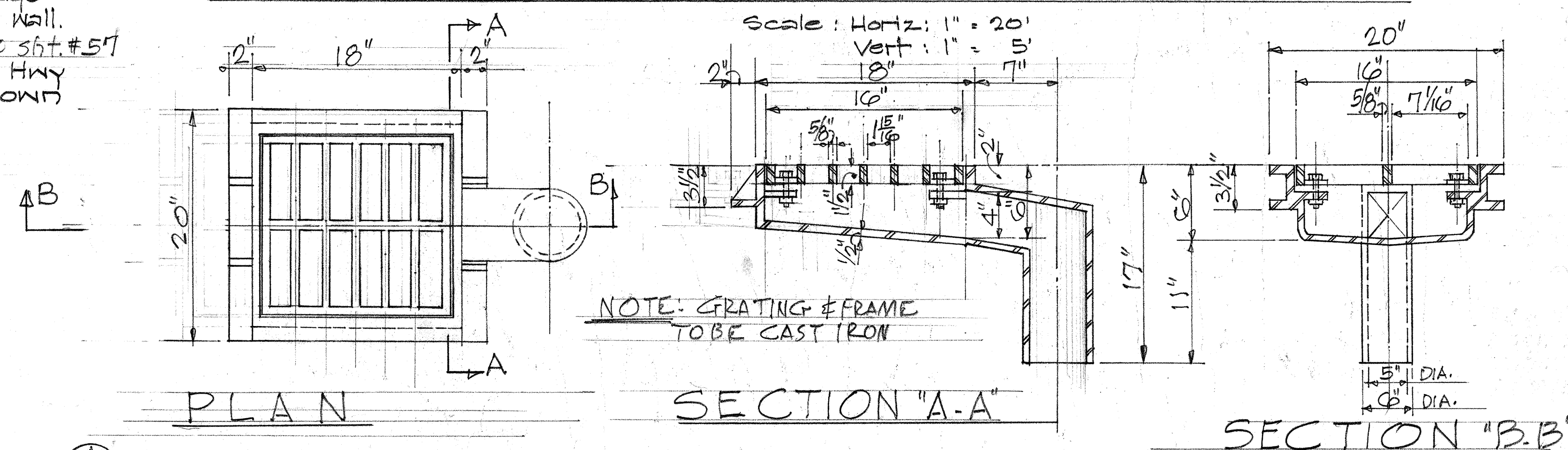
* As built change: 2 rail traffic type with curb to one rail traffic type on conc. parapet



- Note:
1. Refer to Standard Retaining Wall T-1 sht. #58, #59 for additional details.
 2. Symbols: TI-15E-R Wall type MK N° Metal bridge railing on wall.
 3. For Estimated Quantities, see sht. #57
 4. Top of retaining wall to follow Hwy grading plan. Elevations shown should be verified in field.

DEVELOPED ELEVATION - RETAINING WALL N°3

Scale: Horiz: 1" = 20'
Vert: 1" = 5'



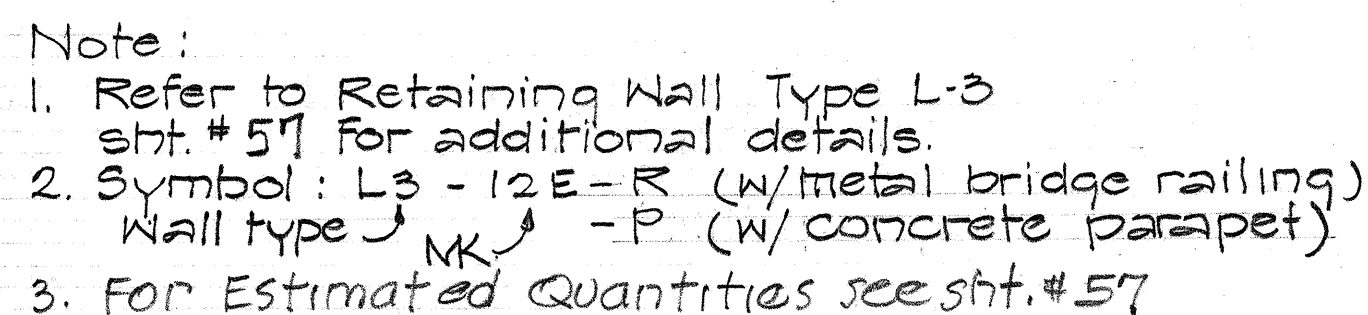
DETAIL - OFFSET ROADWAY SCUPPER WITH BOLTED GRATE

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

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
VICTORIA TO KEEAUMOKU VIADUCT
RETAINING WALL N°3 DETAILS
Interstate Route H-1, Lunalilo Freeway
FAI Proj. No. JH1-1(3) Unit 2 Feb. 1967
SHEET No. 54 OF 58 SHEETS

1189

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
	DRAWN BY	4 JAN '67
NOTE BOOK	TRACED BY	4
	DESIGNED BY	4
	QUANTITIES BY	4
No.	CHECKED BY	4



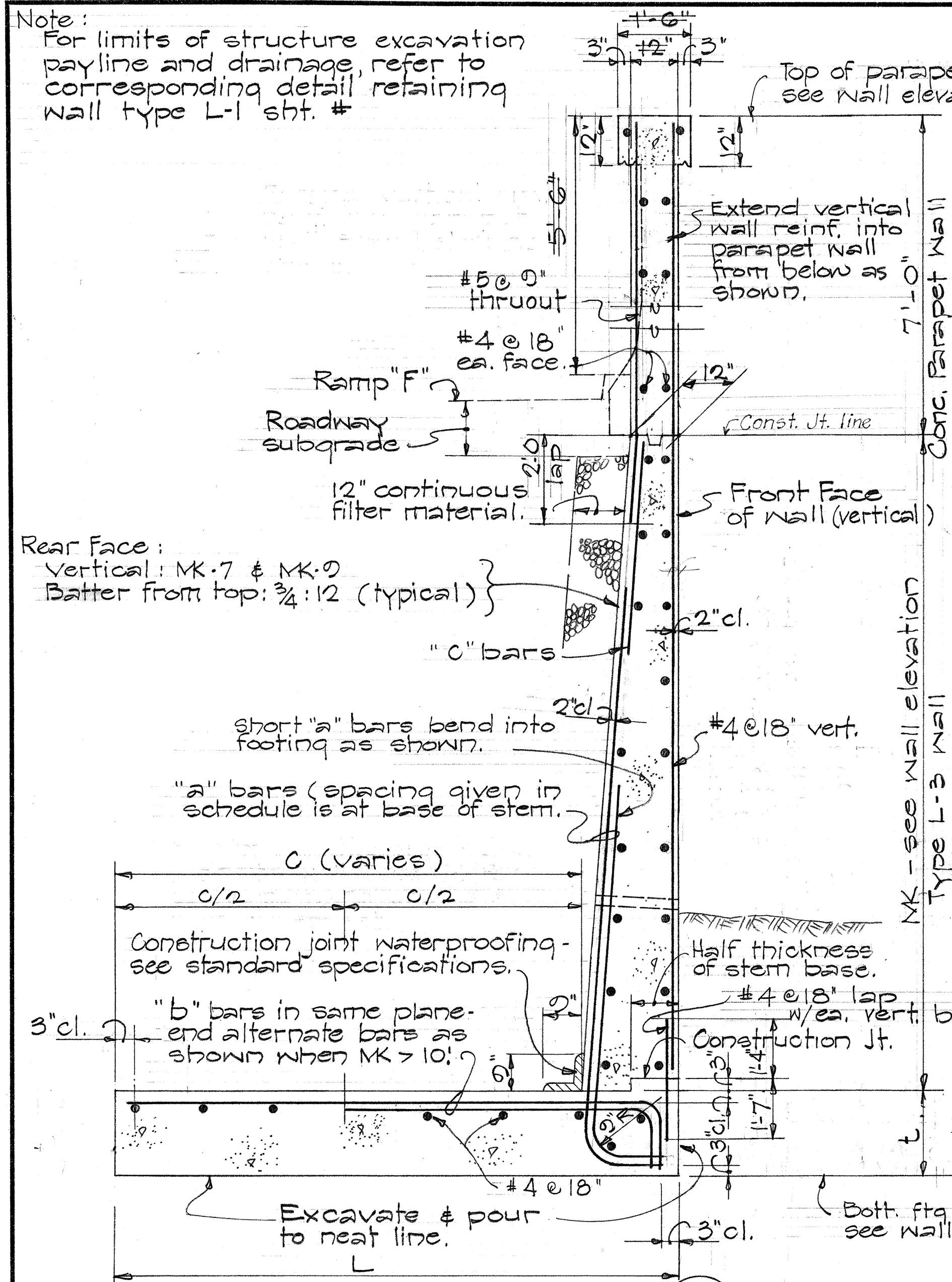
Scale : Horiz: 1" = 20'
Vert. : 1" = 5'

Interstate Route H-1, Lunalilo Freeway
FAI Proj. No. IH1-1(31) Unit 2 Feb. 1967

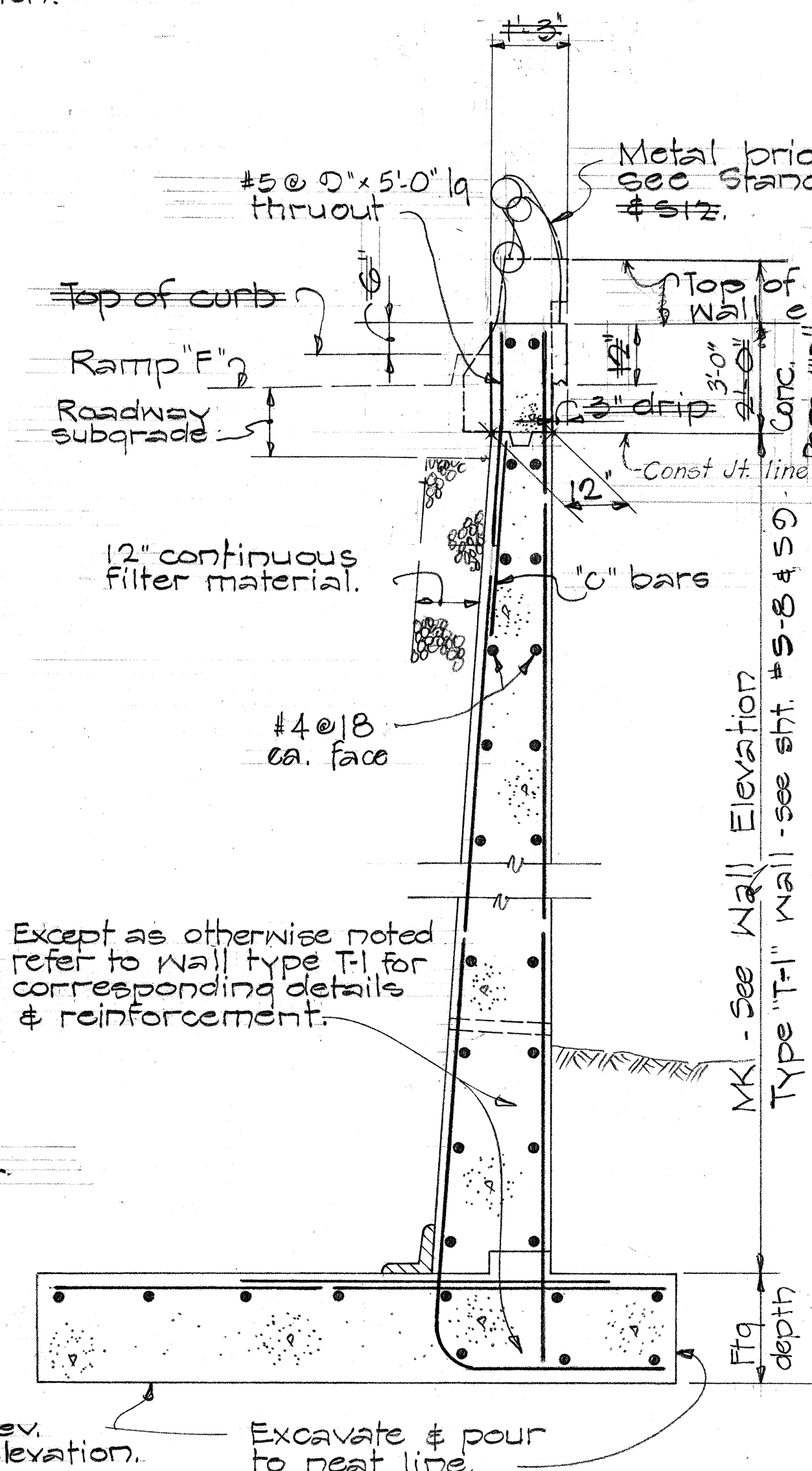
SHEET No. 56 OF 58 SHEETS

Note:
For limits of structure excavation
payline and drainage, refer to
corresponding detail retaining
wall type L-1 sht. #

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	1967	1967	217	217



TYPICAL SECTION (A) 57
TYPE "L-3" WALL



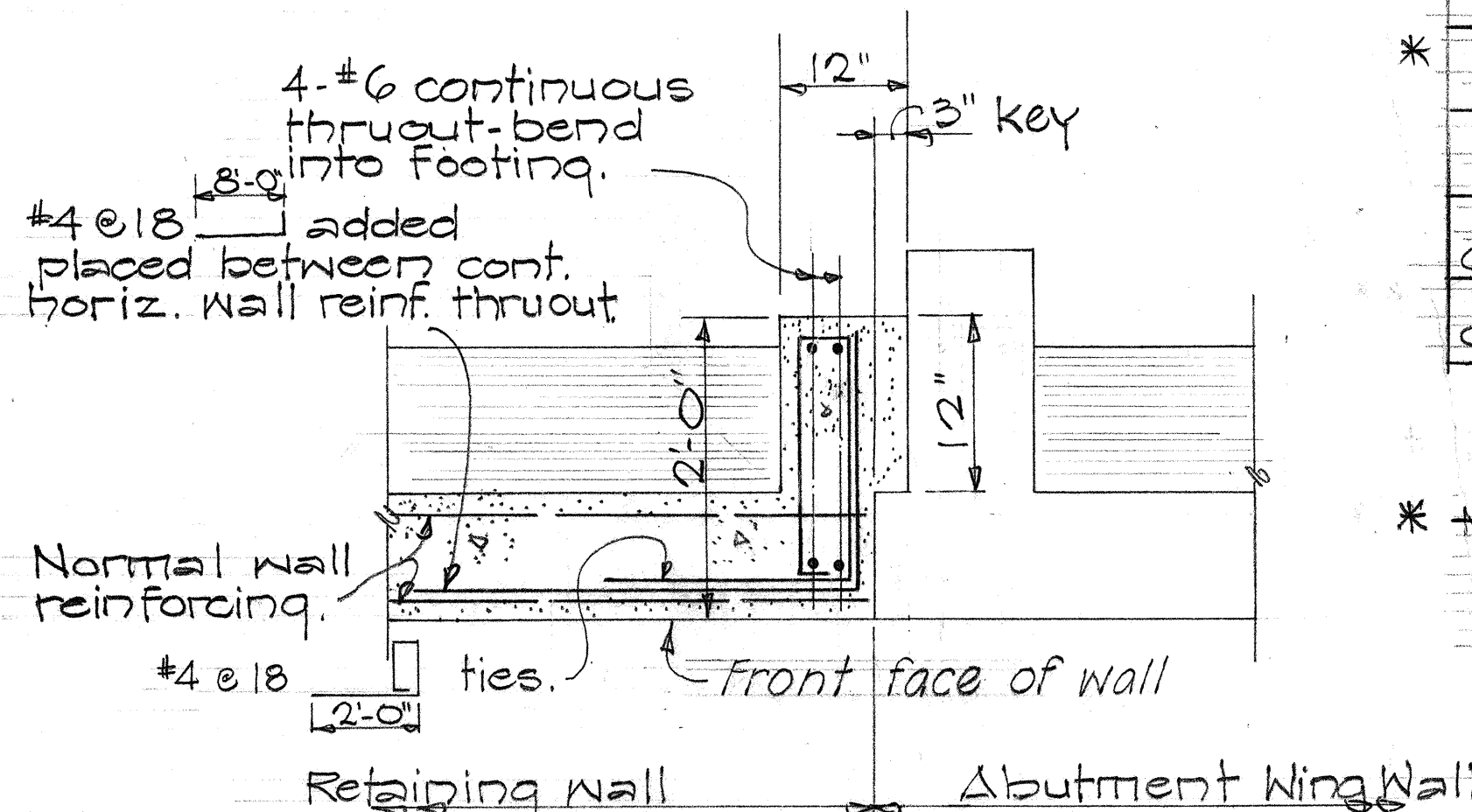
TYPICAL SECTION (B) 57
TYPE "T-1" WALL

RETAINING WALL No 5

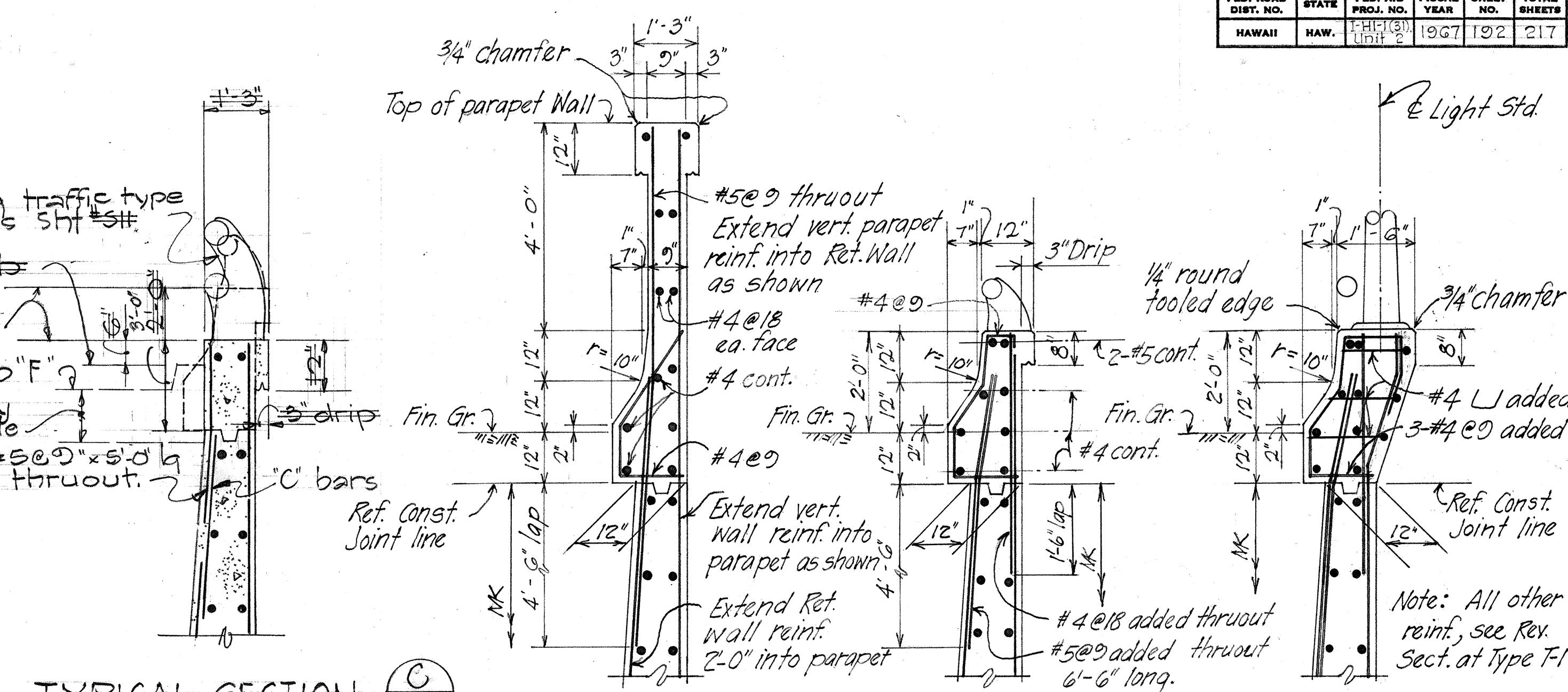
No Scale

Note:
For vertical wall reinforcing steel arrangements
refer to corresponding detail wall "L-1" sht. #5-10

TYPE "L-3" WALL SCHEDULE OF DIMENSIONS AND REINFORCING STEEL							
Maximum "MK"	8E	11E	12E	14E	16E	17E	20E
L	4.25'	5.0'	7.0'	10.25'	11.75'	13.25'	17.0'
t	14"	14"	18"	24"	27"	30"	33"
"a"	#5 @ 8"	#6 @ 6"	#7 @ 6"	#7 @ 7"	#8 @ 5 1/2"	#8 @ 6"	#9 @ 6"
"b"	#5 @ 8"	#6 @ 6"	#7 @ 6"	#7 @ 7"	#8 @ 5 1/2"	#8 @ 6"	#9 @ 6"
"c"		#4	#4	#4	#5	#5	#5



RETAINING WALL CONNECTION DETAIL



TYPICAL SECTION (C) 57
AT TYPE "L-3" WALL
No Scale

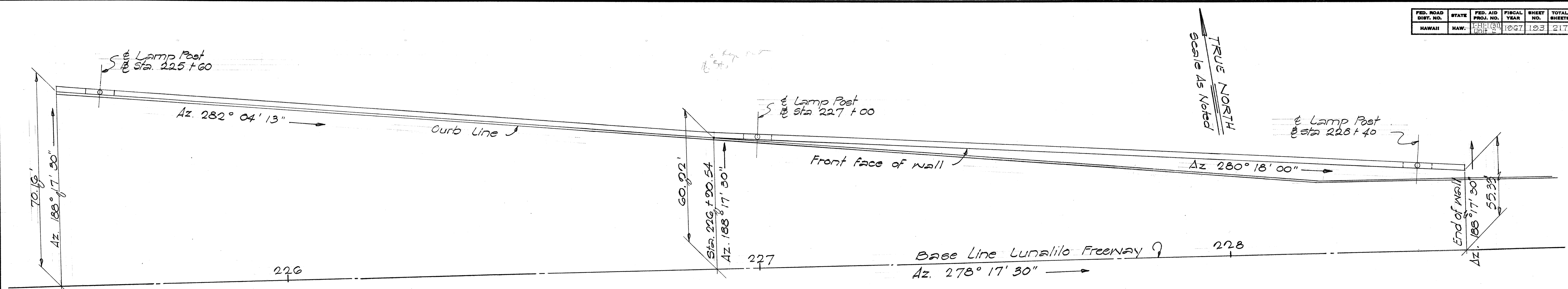
AT TYPE "L-3" WALL AT TYPE "T-1" AT LIGHT STD.
REVISED TYP. SECTION FOR RET. WALL #5

RETAINING WALL ESTIMATED QUANTITIES							
ITEM.	LOCATION	RETAINING WALL No 1	RETAINING WALL No 2	RETAINING WALL No 3	RETAINING WALL No 4	RETAINING WALL No 5	RETAINING WALL No 6
CONCRETE		221.0 cy	76.0 cy	535.0 cy	121.0 cy	1,535.0 cy	93.0 cy
REINFORCING STEEL		22,652.0 #	6,687.0 #	55,266.0 #	10,397.0 #	157,350.0 #	407.0 #
STRUCTURAL EXCAVATION		200.0 cy	69.0 cy	659.0 cy	90.0 cy	1,775.0 cy	50.0 cy
* METAL BRIDGE RAILING		118.0 L.F.	122.0 L.F.	503.0 L.F.	182.0 L.F.	552.0 L.F.	—
FILTER MATERIAL		74.0 cy	23.0 cy	162.0 cy	30.0 cy	313.0 cy	—
3'-0" HIGH CHAIN LINK FENCE		—	—	—	—	—	300.0 L.F.
6'-0" HIGH CHAIN LINK FENCE		25.0 L.F.	—	—	—	—	—
							25.0 L.F.

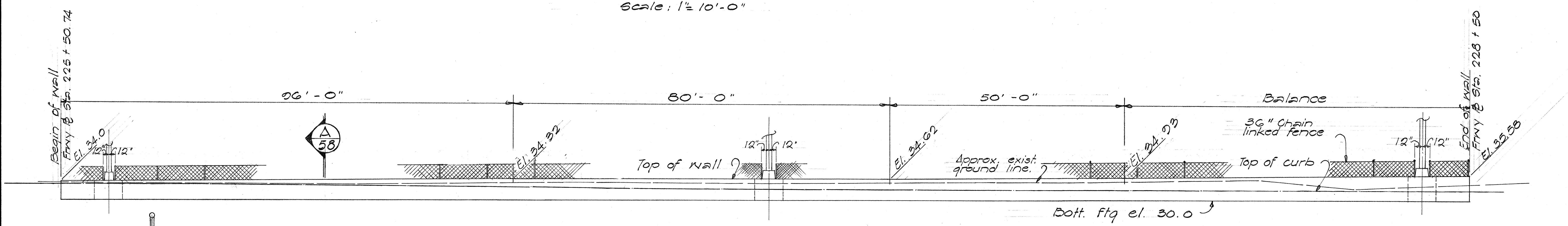
* Metal Bridge Railing - 2 Rail Traffic Type.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
VICTORIA TO KEEAUMOKU VIADUCT
RETAINING WALLS
SECTIONS & DETAILS
Interstate Route H-1, Lunalilo Freeway
FAI Proj. No. IHI-1(3) Unit 2 Feb. 1967
SHEET No. 57 OF 58 SHEETS

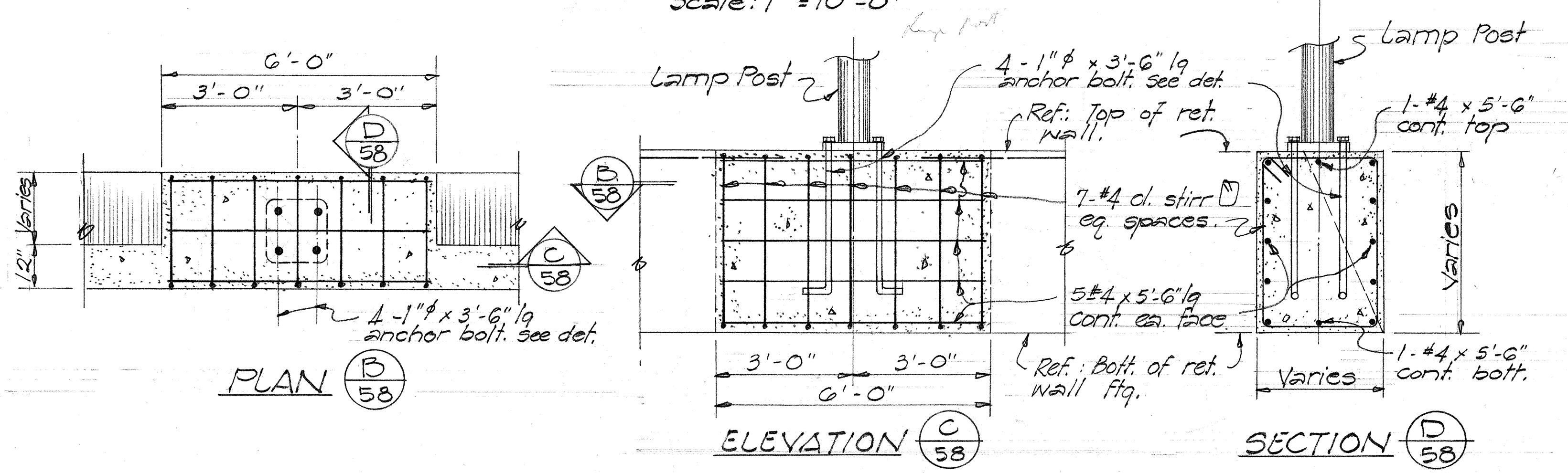
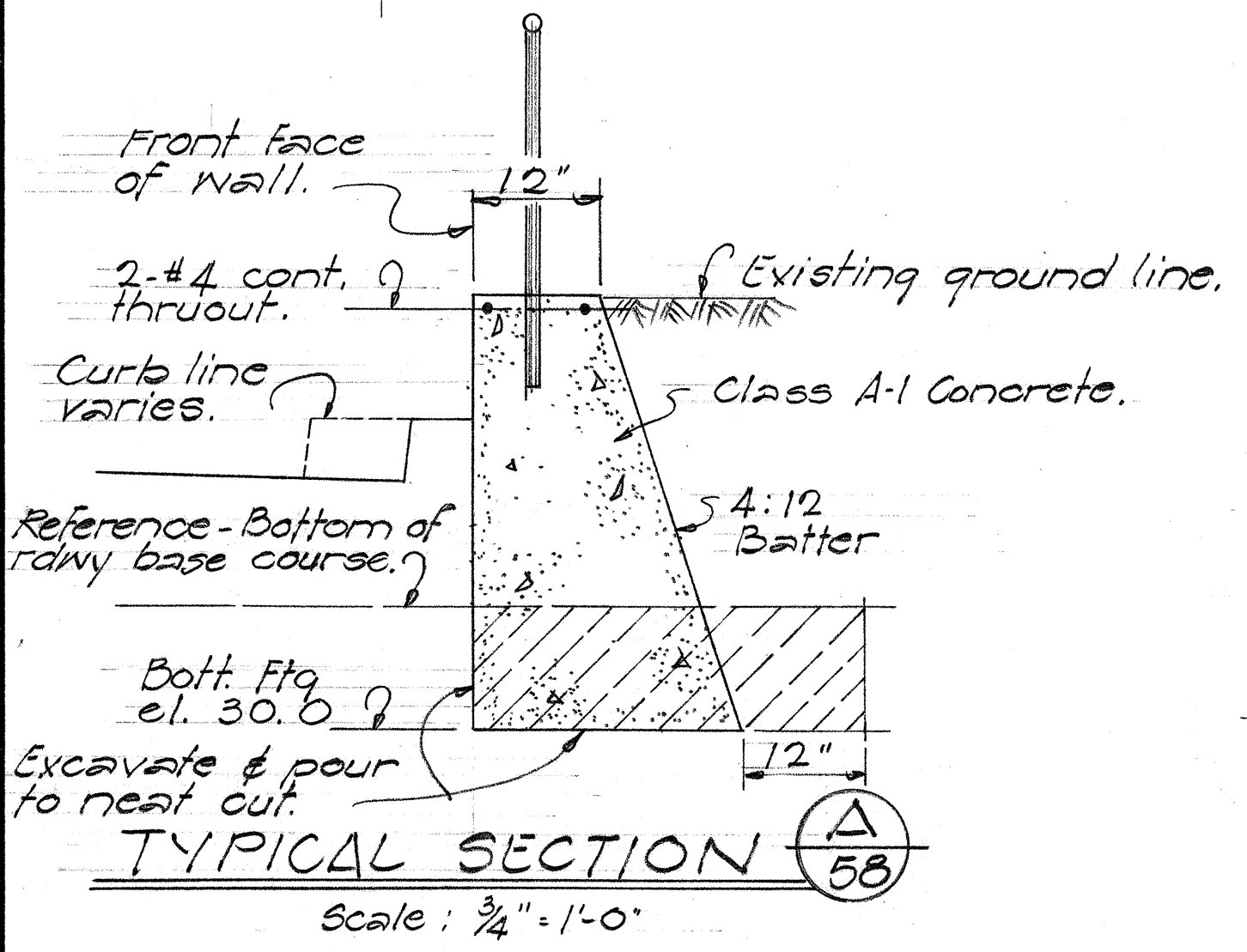
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	141-1(31)	1967	193	217



PLAN - RETAINING WALL N° 6
Scale: 1" = 10'-0"



ELEVATION - RETAINING WALL N° 6
Scale: 1" = 10'-0"

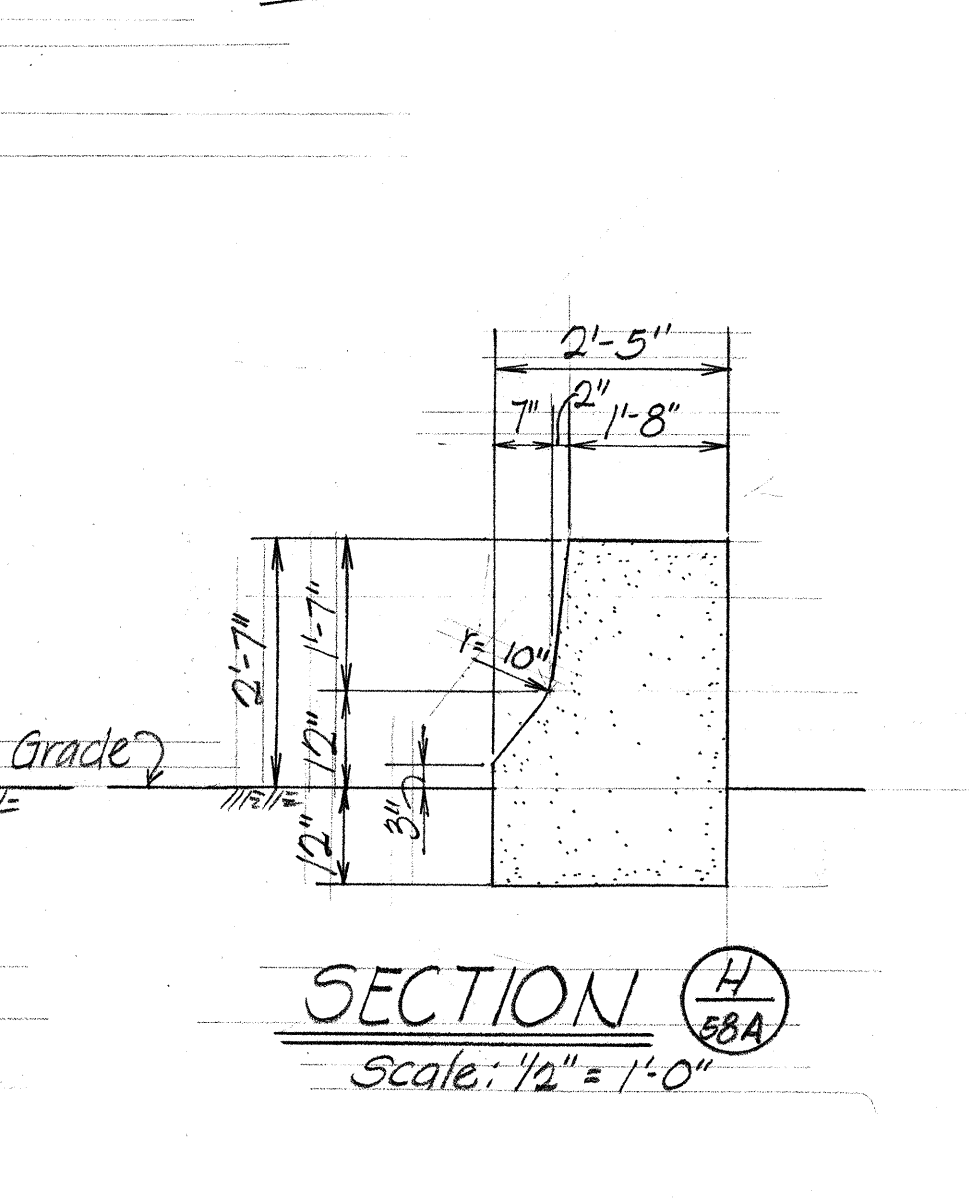
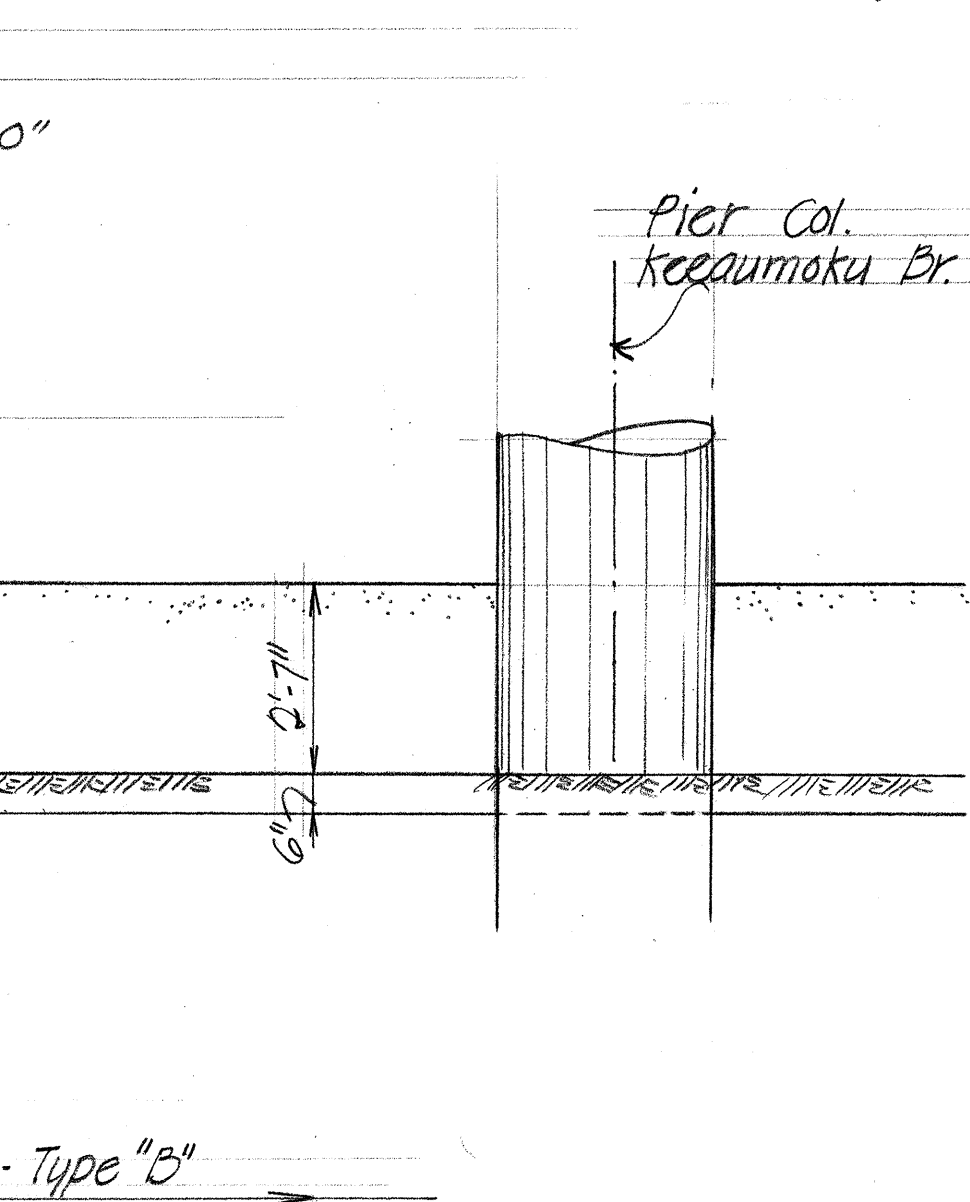
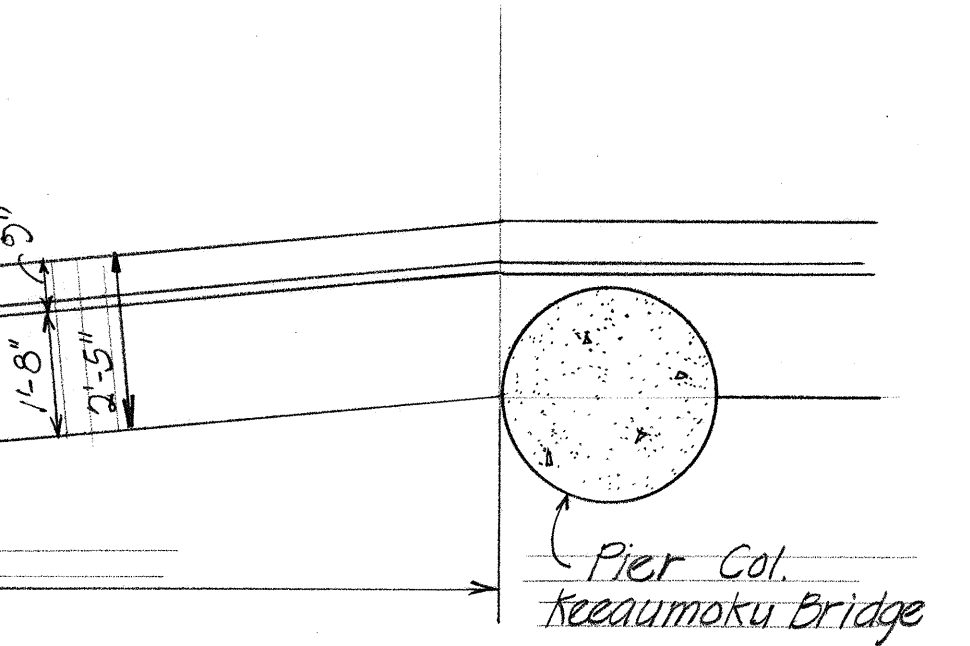
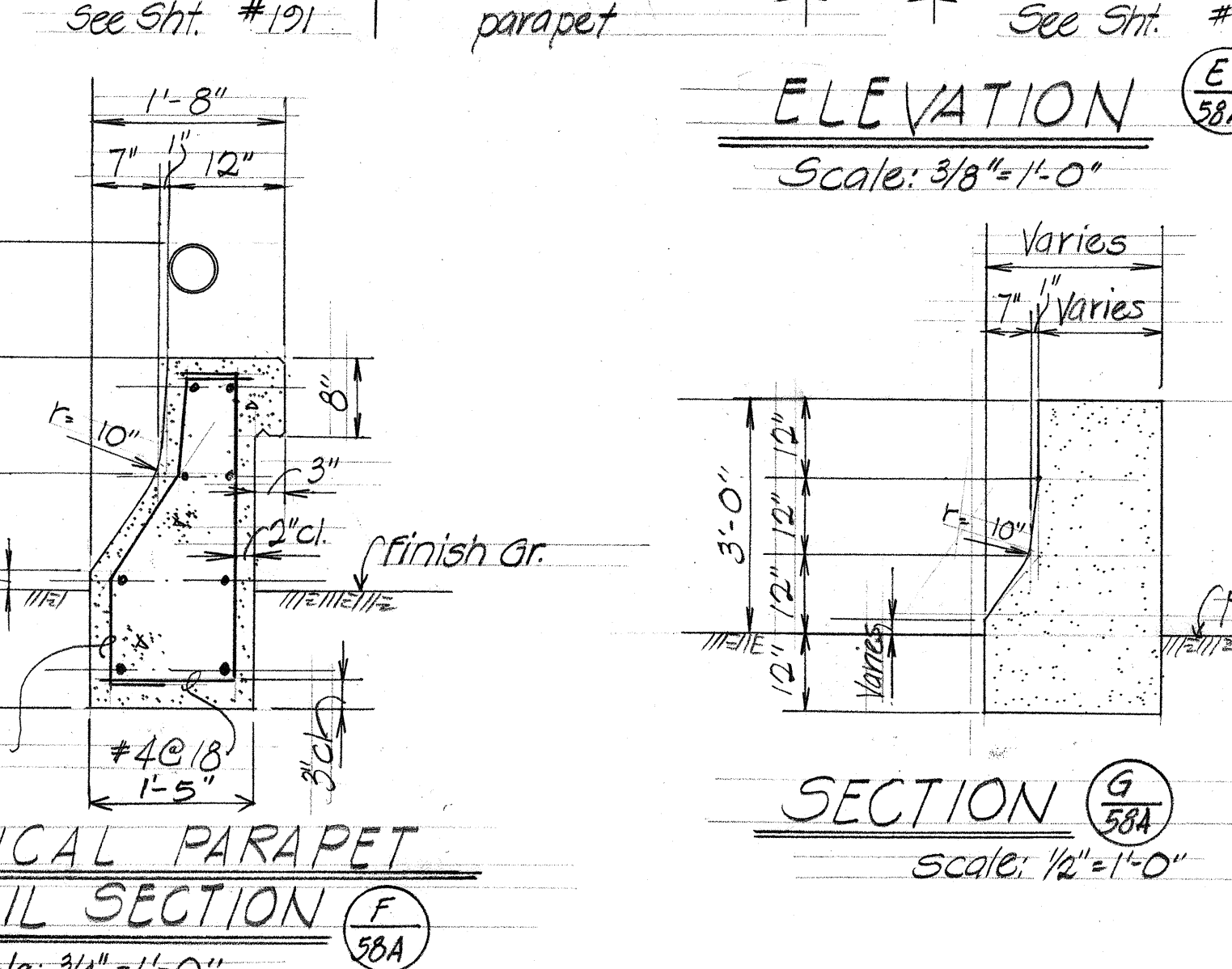
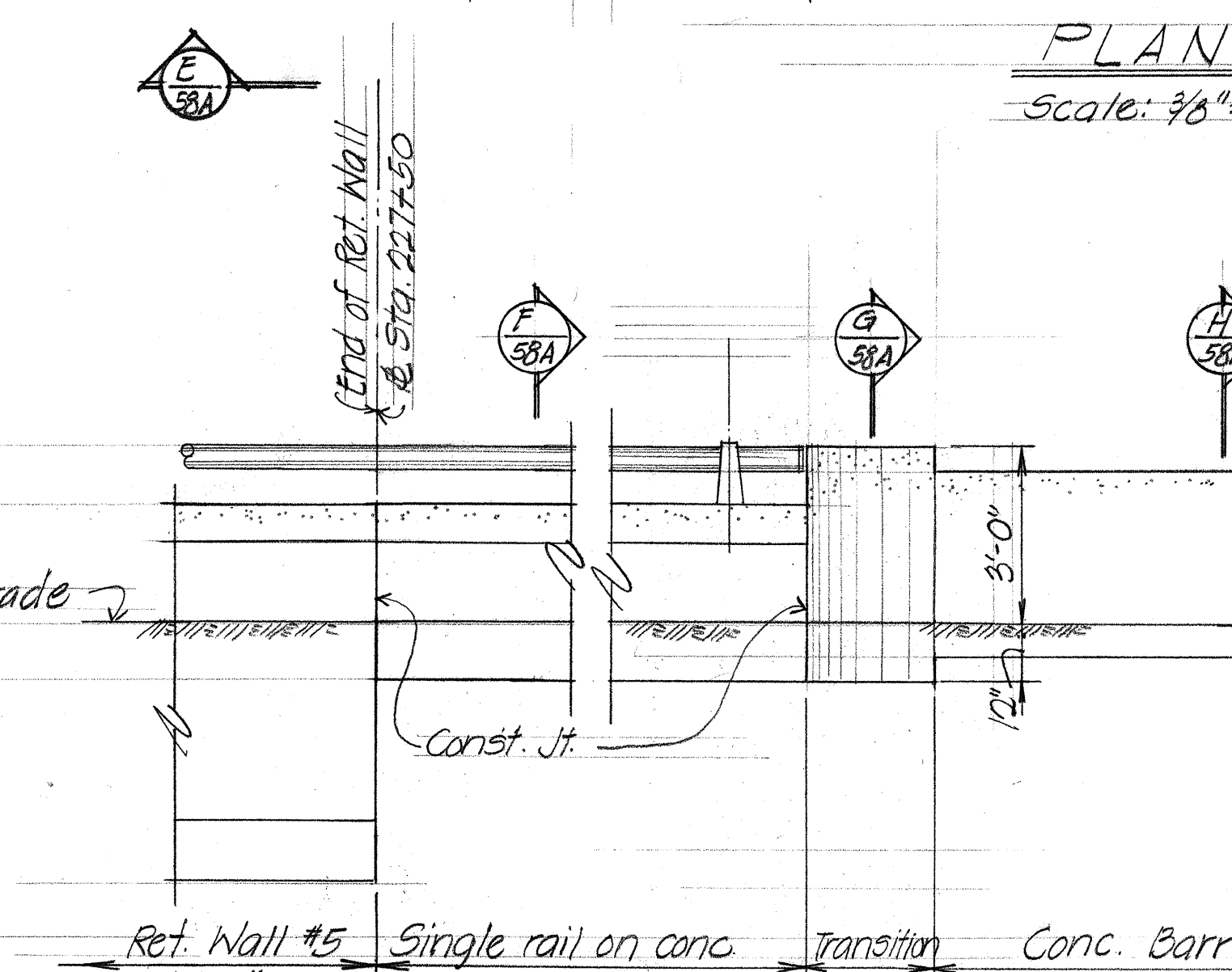
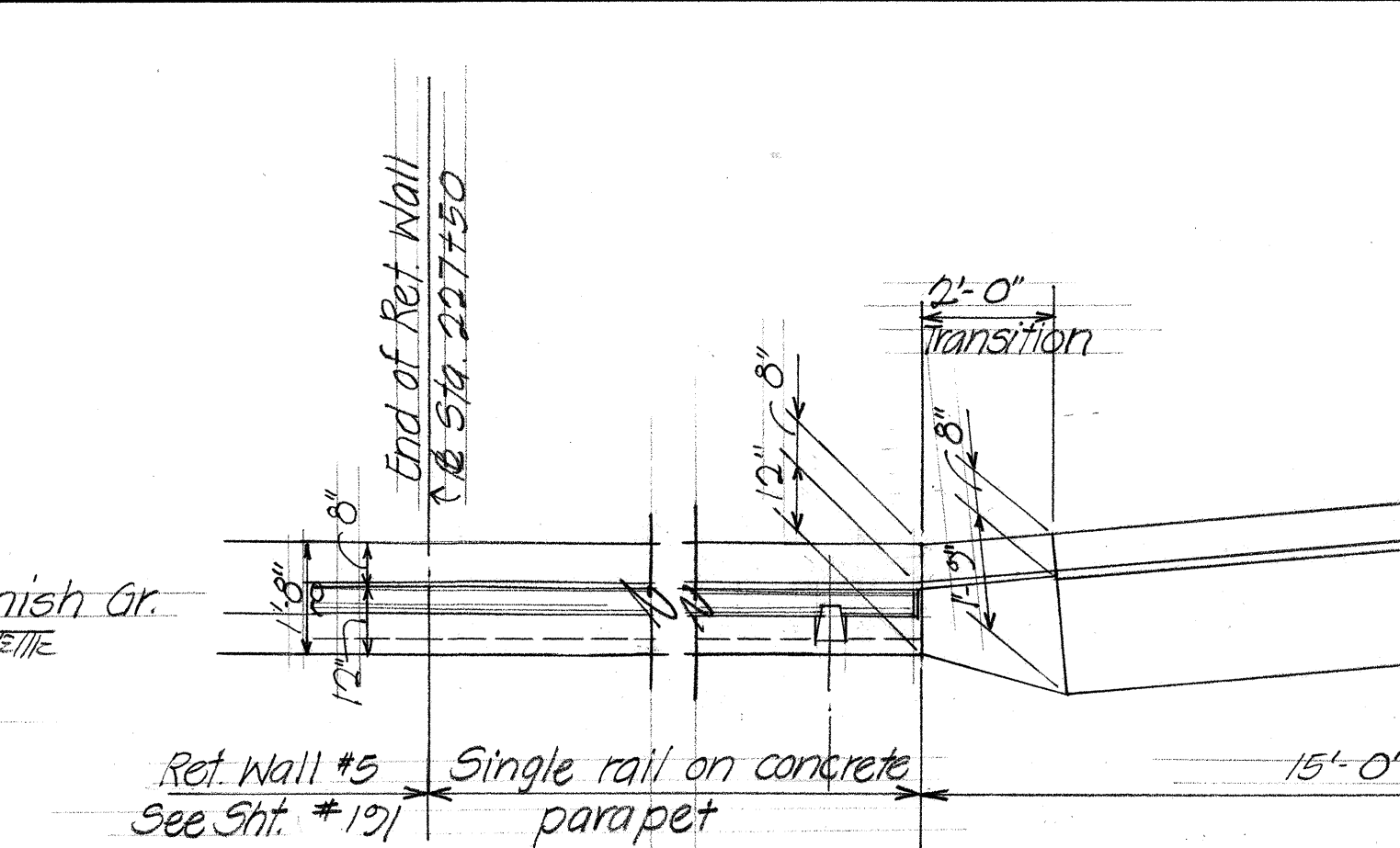
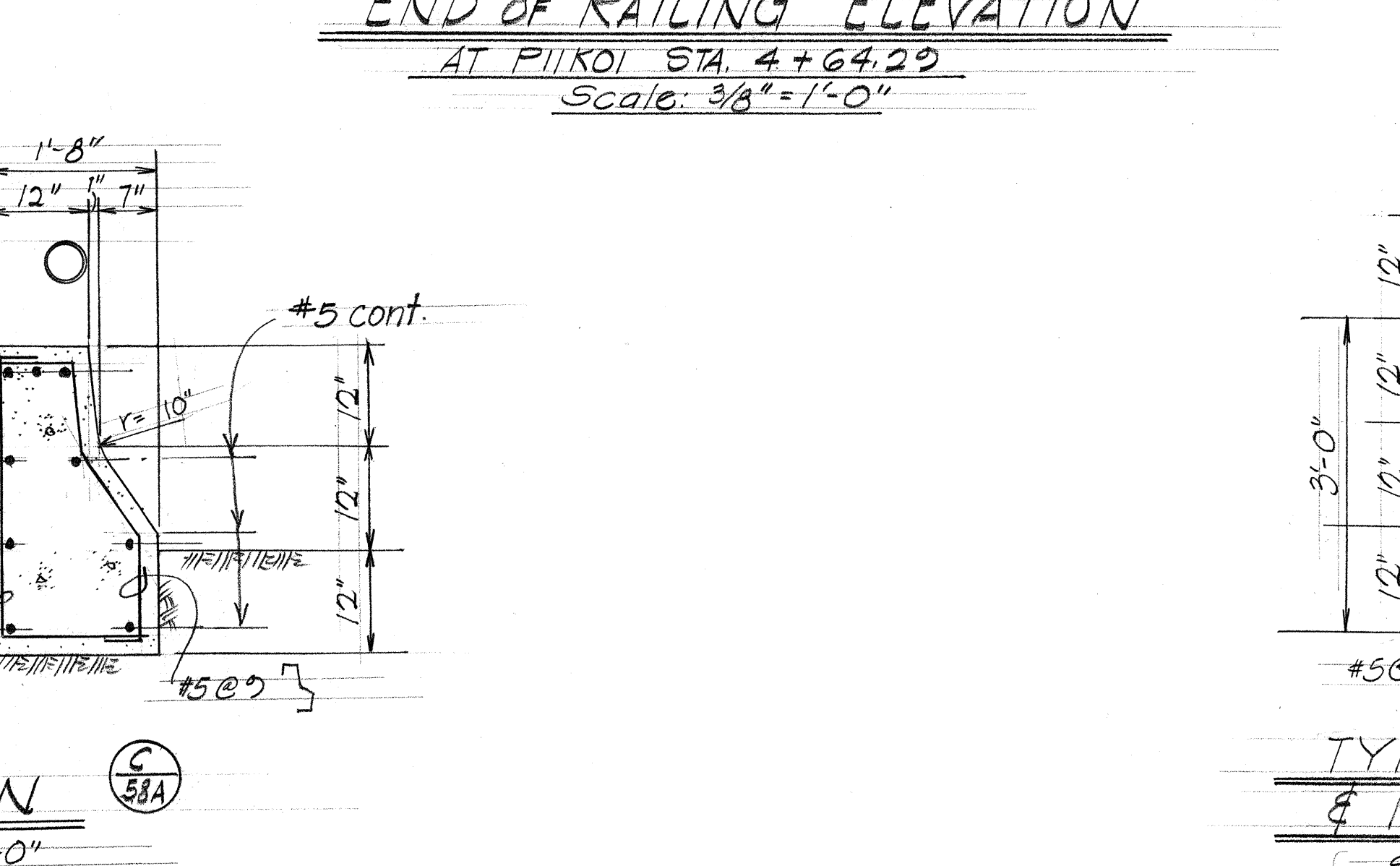
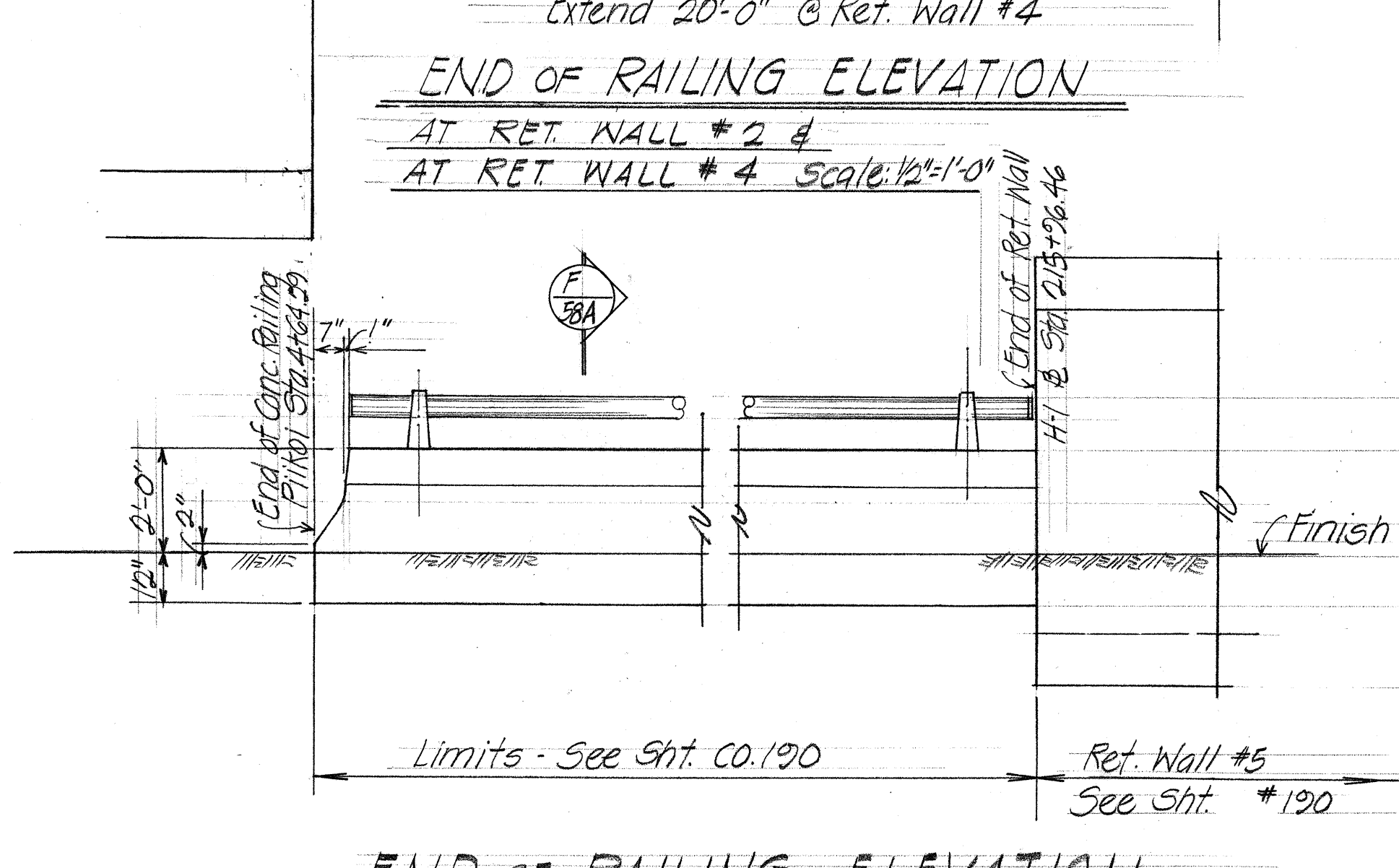
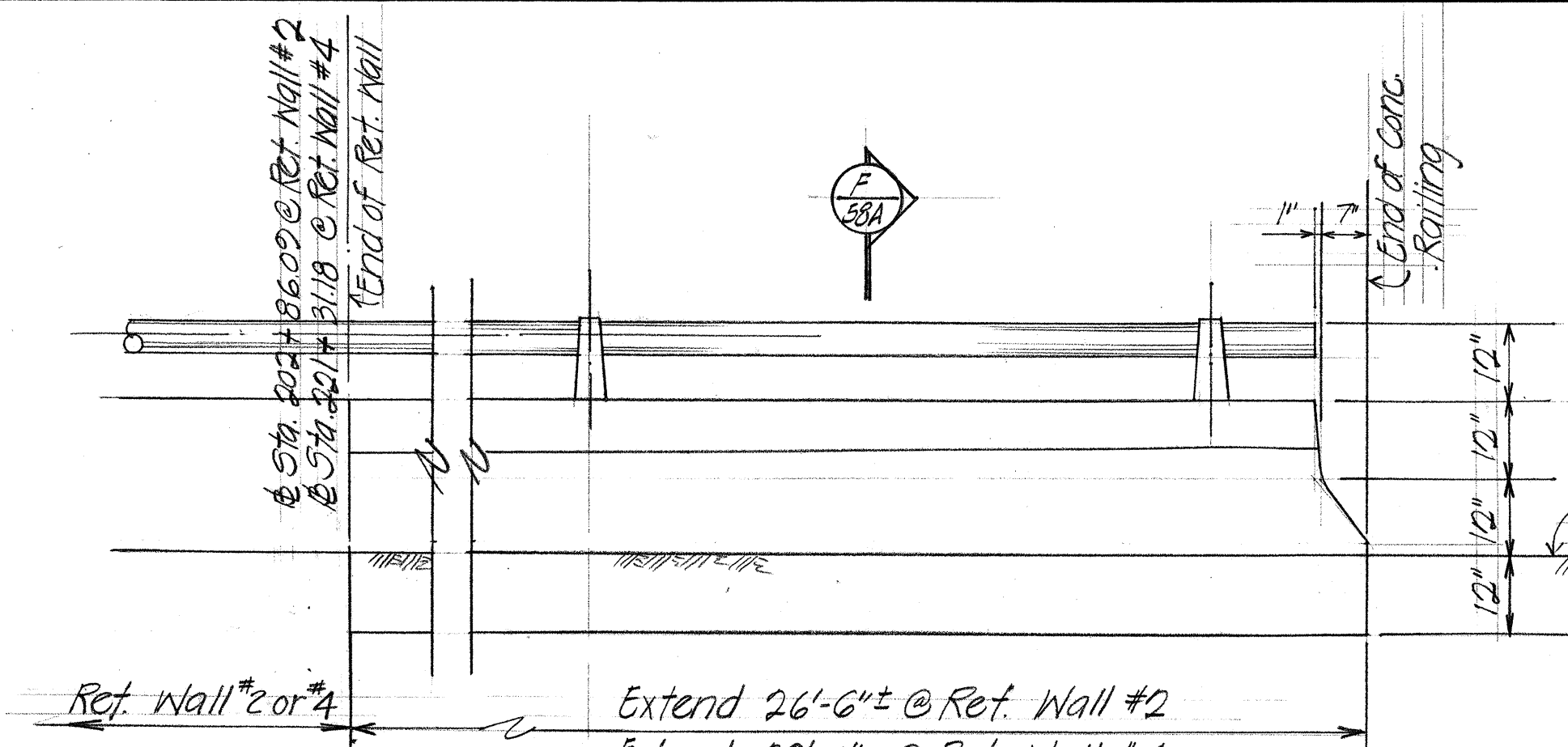
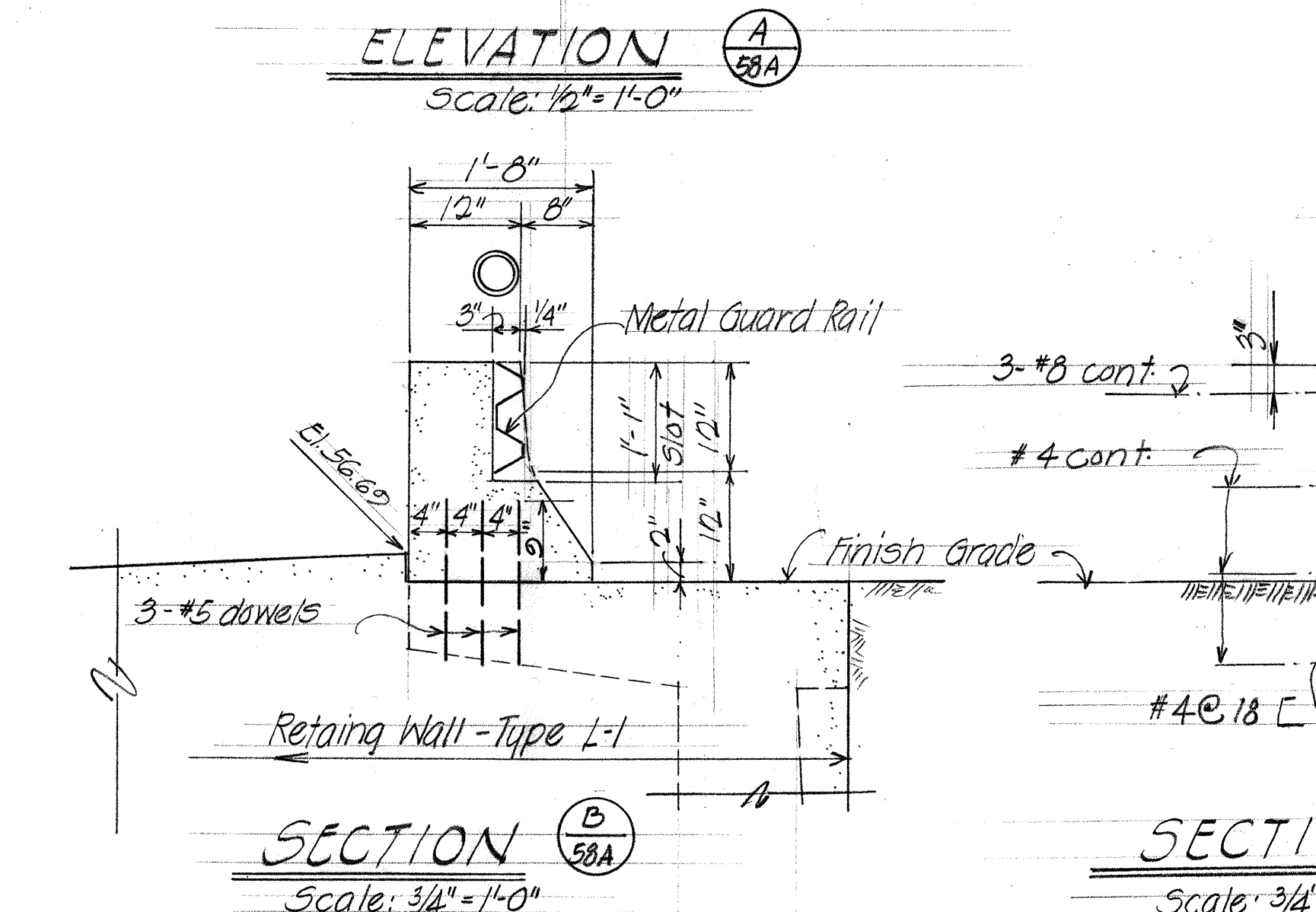
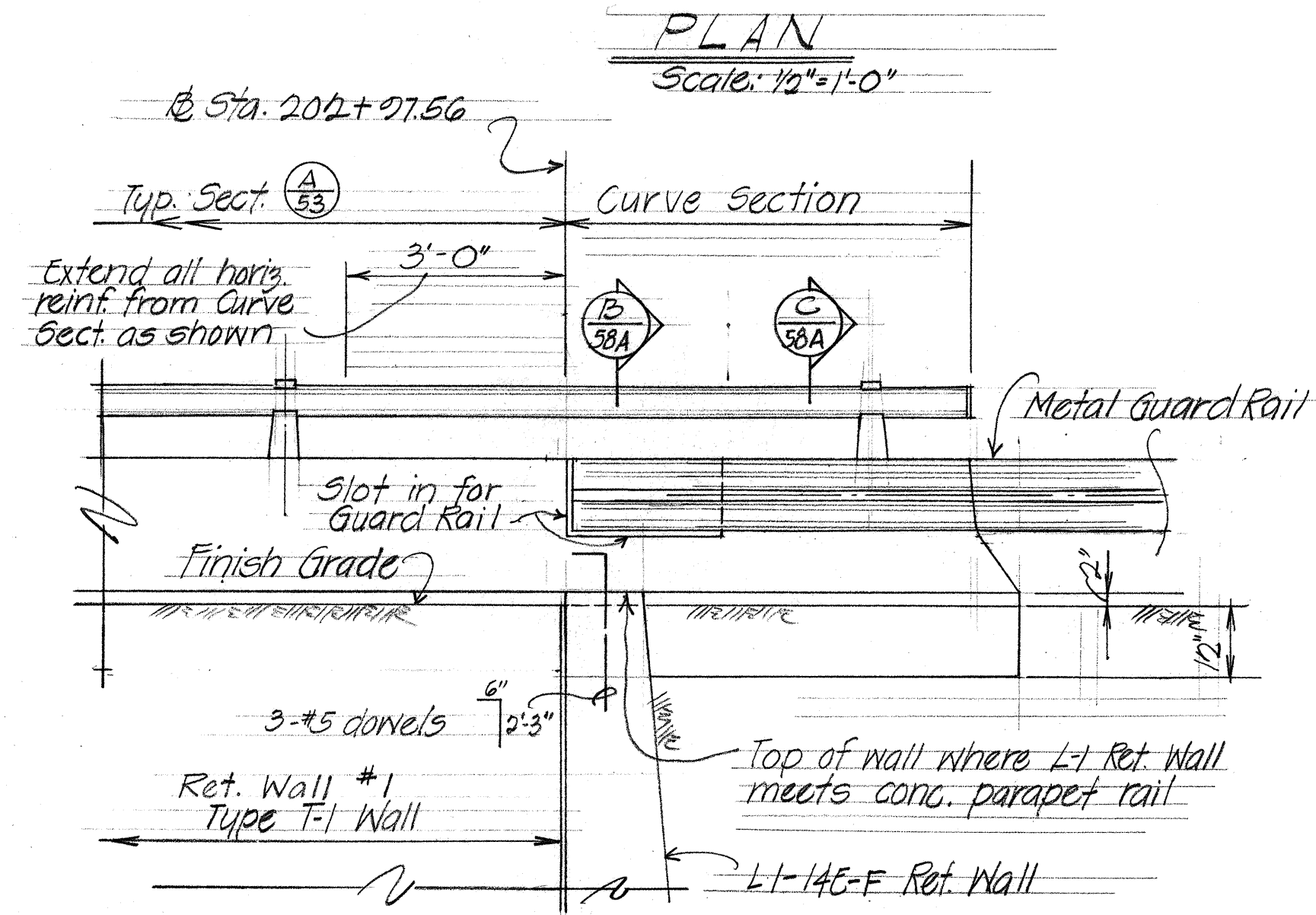
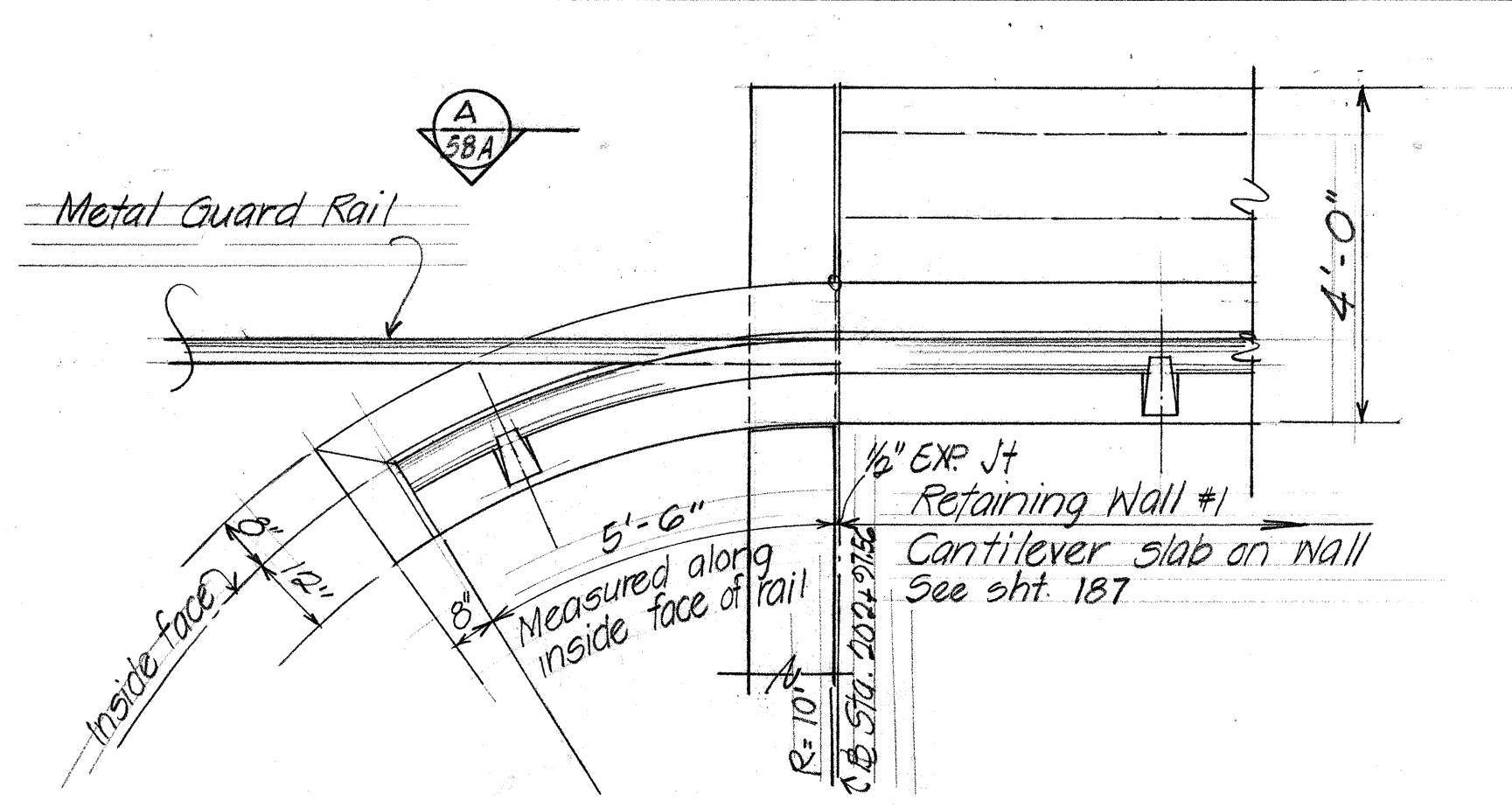


TYPICAL LIGHTING FIXTURE BASE DETAILS ~ RETAINING WALL N° 6
Scale: 1/2" = 1'-0"

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
VICTORIA TO KEEAUMOKU VIADUCT
RETAINING WALL N° 6 DETAILS

Interstate Route H-1, Lunalilo Freeway
F&I Proj. N° 141-1(31) Unit 2 Feb. 1967
SHEET No. 58 OF 58 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	FH-1(31) Unit 2	1967	192	217



GUARD RAIL CONNECTION DETAIL AT RETAINING WALL NO 1

THIS SHEET PREPARED
DURING "AS-BUILT" POSTING.
THIS SHEET IS A SUPPLEMENT
TO THE CONTRACT PLANS.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
VICTORIA TO KEEAUMOKU VIADUCT
RETAINING WALL DETAILS
Interstate Route H-1 Lunalilo Freeway
FAI Proj. No. IH-1(31) Unit 2

SHEET No. 58A OF 58 SHEETS

C O I G S S (1)