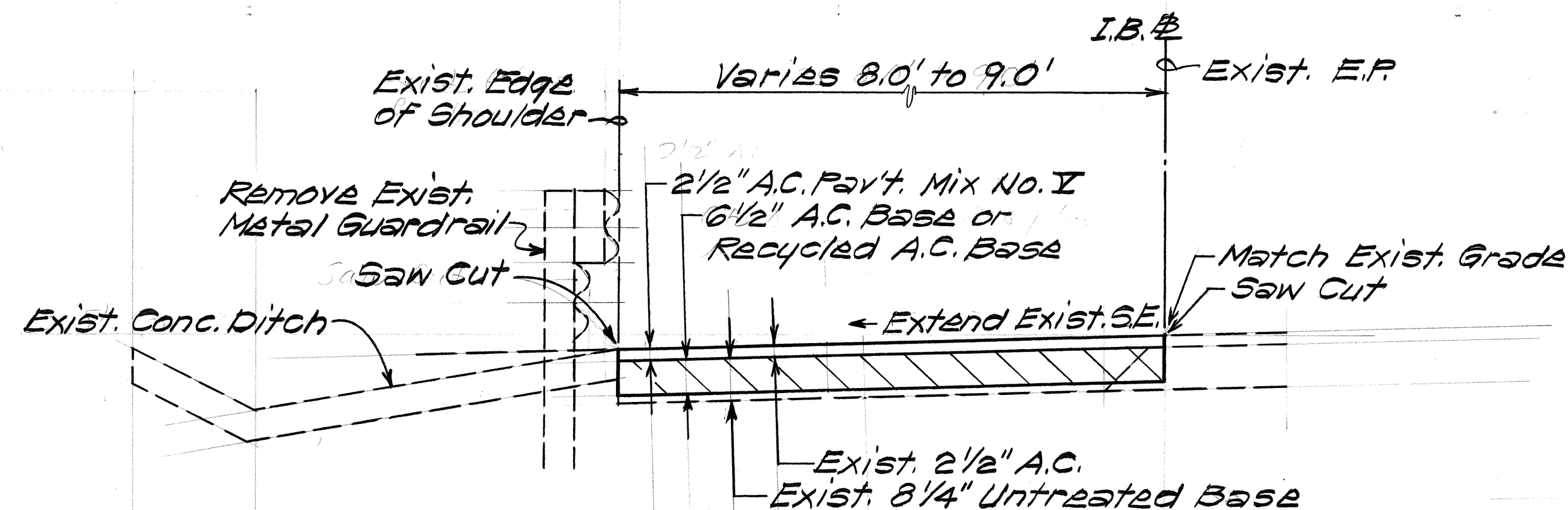
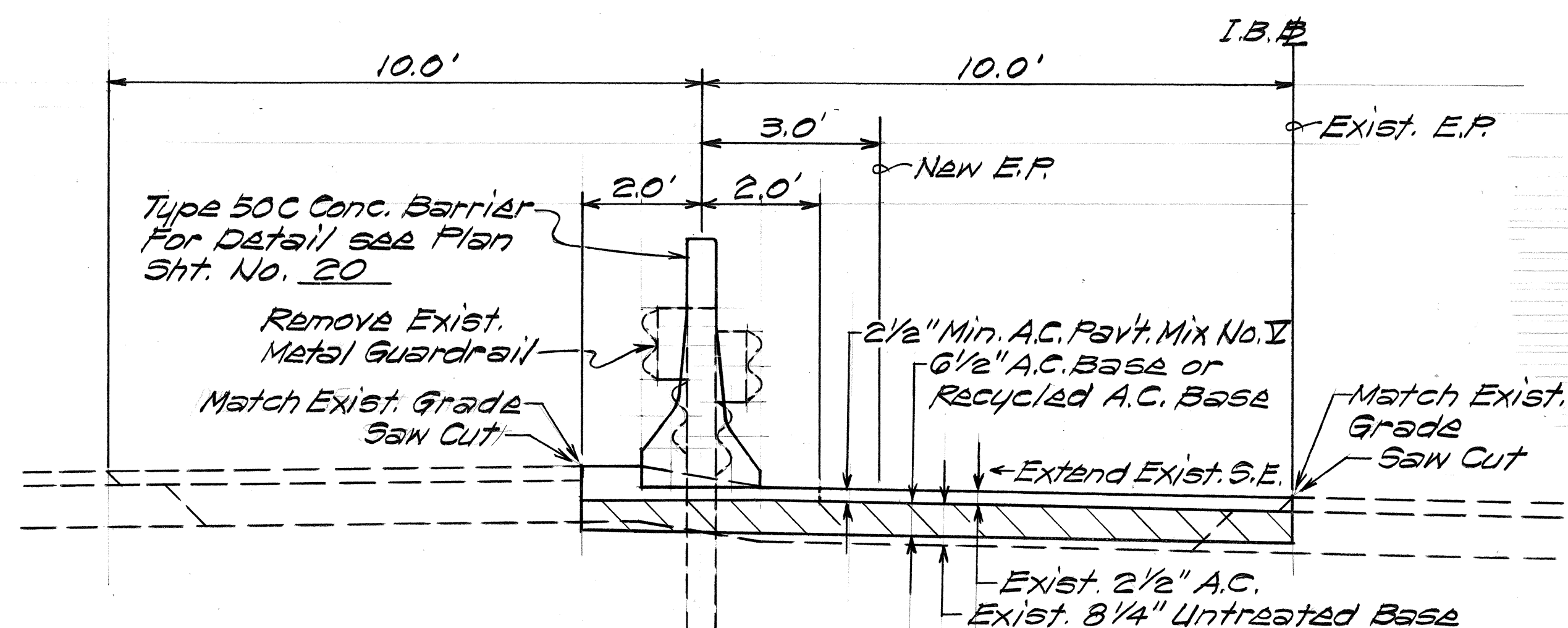


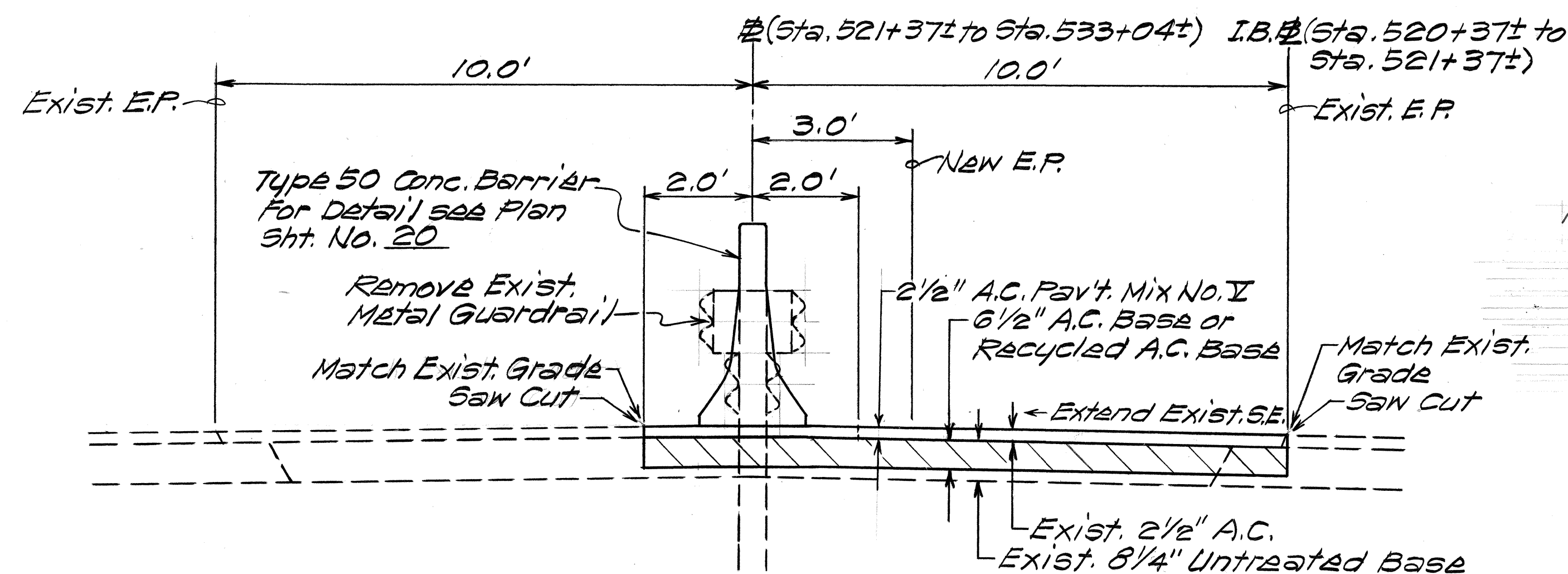
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IR-HI-1(193)	1986	3	62



MEDIAN A.C. SHOULDER
H-2 I.B. # Sta. 482+60± to H-1 I.B. # Sta. 518+87±
Scale: 1/2"=1'-0"



MEDIAN A.C. SHOULDER
I.B. # Sta. 518+87± to I.B. # Sta. 520+37±
Scale: 1/2"=1'-0"



NOTE: Shoulder work on I.B. side only at Structure No. 1 ~ Width Varies.

MEDIAN A.C. SHOULDER
I.B. # Sta. 520+37± to # Sta. 533+04±
Scale: 1/2"=1'-0"

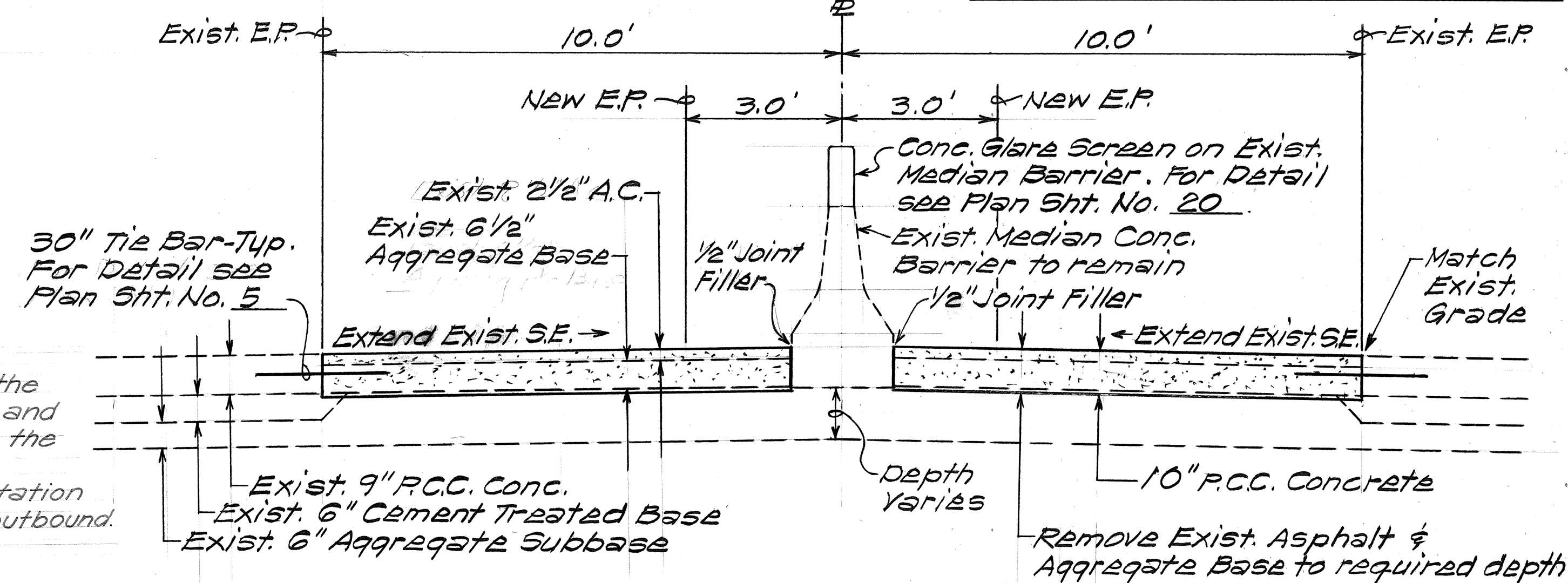
NOTE:
Delete the CTB from the median PCC shoulder and travelway and increase the PCC thickness to 14.5 inches between H-1 station 149+64± and 150+50± outbound.

NOTE:
Delete 6-inches of cement treated base from the median PCC shoulder widening areas Exist. E.P. and increase the PCC thickness to 10-inches as listed below:

OUTBOUND:
H-1 Sta. 99+00± to 102+44±
H-1 Sta. 123+74± to 144+84±

INBOUND:
H-1 Sta. 62+97± to 72+22±
H-1 Sta. 75+13± to 97+00±
H-1 Sta. 123+74± to 144+84±
H-1 Sta. 149+64± to 162+67±
H-1 Sta. 168+70± to 175+20±

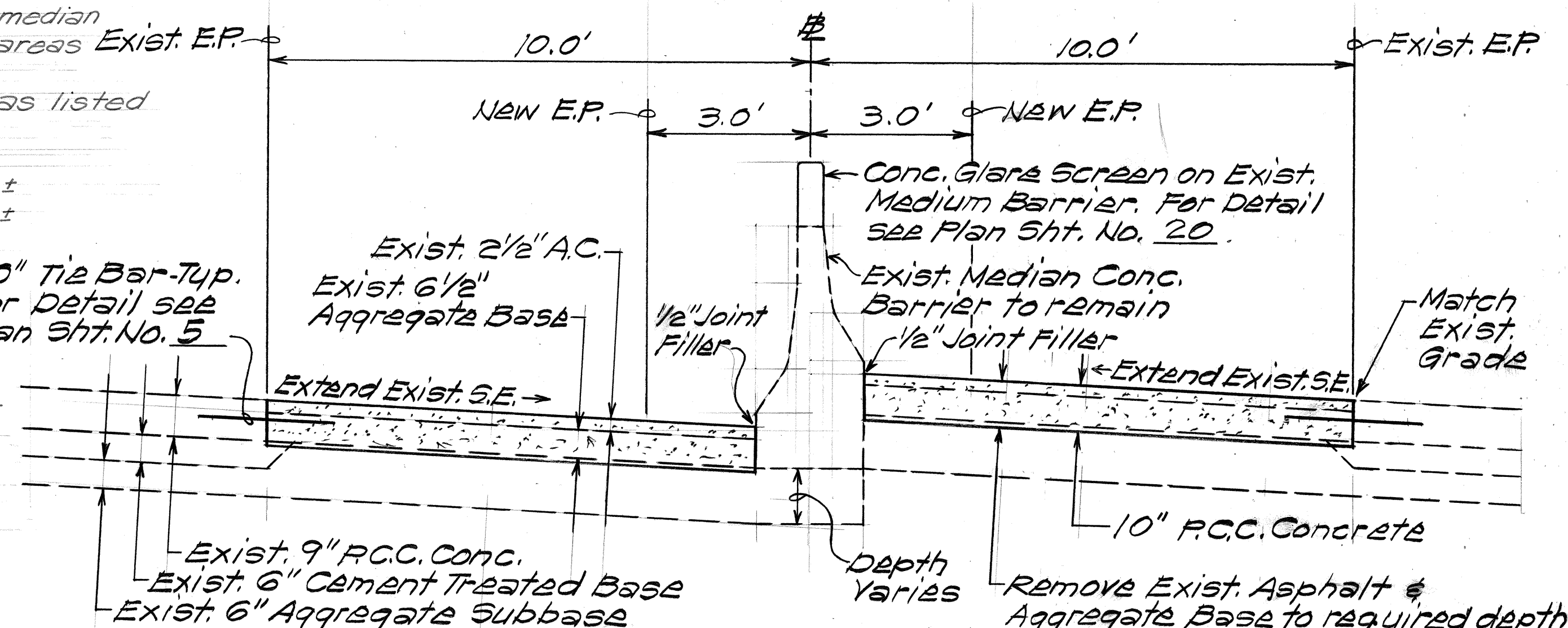
NOTE:
Use curing compound material in lieu of MC-30 liquid asphalt as curing seal for cement treated base.



NOTE: Shoulder work width varies at Kaonohi St. Overpass. New PCC Pavement to be longitudinally grooved.

MEDIAN PCC SHOULDERS ~ TANGENT SECTION

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



NOTE: Shoulder work width varies at Kaunohi St. Overpass & at Kaahumanu St. Overpass. New PCC Pavement to be longitudinally grooved.

MEDIAN PCC SHOULDERS ~ CURVE SECTION

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

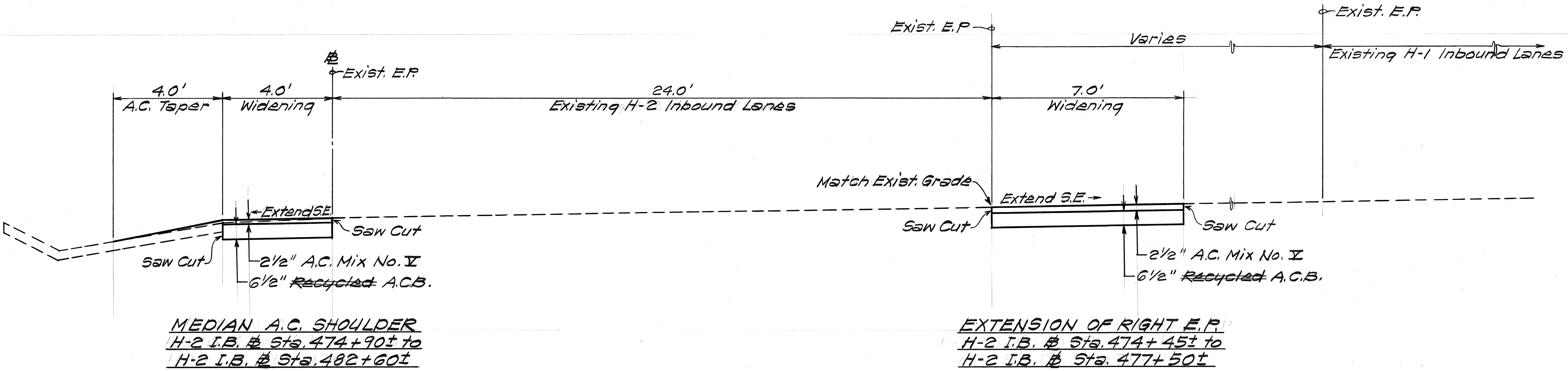
MEDIAN P.C.C. SHOULDER WORK SCHEDULE			
# STA TO # STA.	TANGENT SECTION L.F.	CURVE SECTION L.F.	
(I.B. only) 62+97± - 72+22±	925		
(I.B. only) 75+13± - 97+00±			2190
97+00± - 100+25±		325	
100+25± - 102+44±	219		
123+74± - 144+84±	2110		
149+64± - 154+00±	440		
154+00± - 162+70±		870	
168+70± - 175+20±		650	
TOTAL	2769	(I.B. only) 925	(I.B. only) 2190

9/3/86 Revised Median A.C. Shoulder Limits, Median P.C.C. Pav't. Structure & Median P.C.C. Shoulder Work Schedule

DATE REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
TYPICAL SECTIONS & SCHEDULE
MEDIAN SHOULDER
INTERSTATE ROUTE H-1
ADDITIONAL LANES
FAI, Proj. No. IR-HI-1(193)
Scale: As Shown Date: July, 1985
SHEET NO. 1 OF 7 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IR-HI-1(193)	1986	CO 35-1	62



TYPICAL SECTION
H-2~H-1 MERGE
Scale: 1/2" = 1'-0"

NOTE: Extension of Right E.P. shall be completed prior to construction of Median A.C. Shoulder H-2 @ Sta. 474+90± to H-2 @ Sta. 482+60±. All material excavated shall be replaced with new pavement within the same day.

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

9/3/86	Additional work on H-2 I.B. Ramp
DATE	REVISION

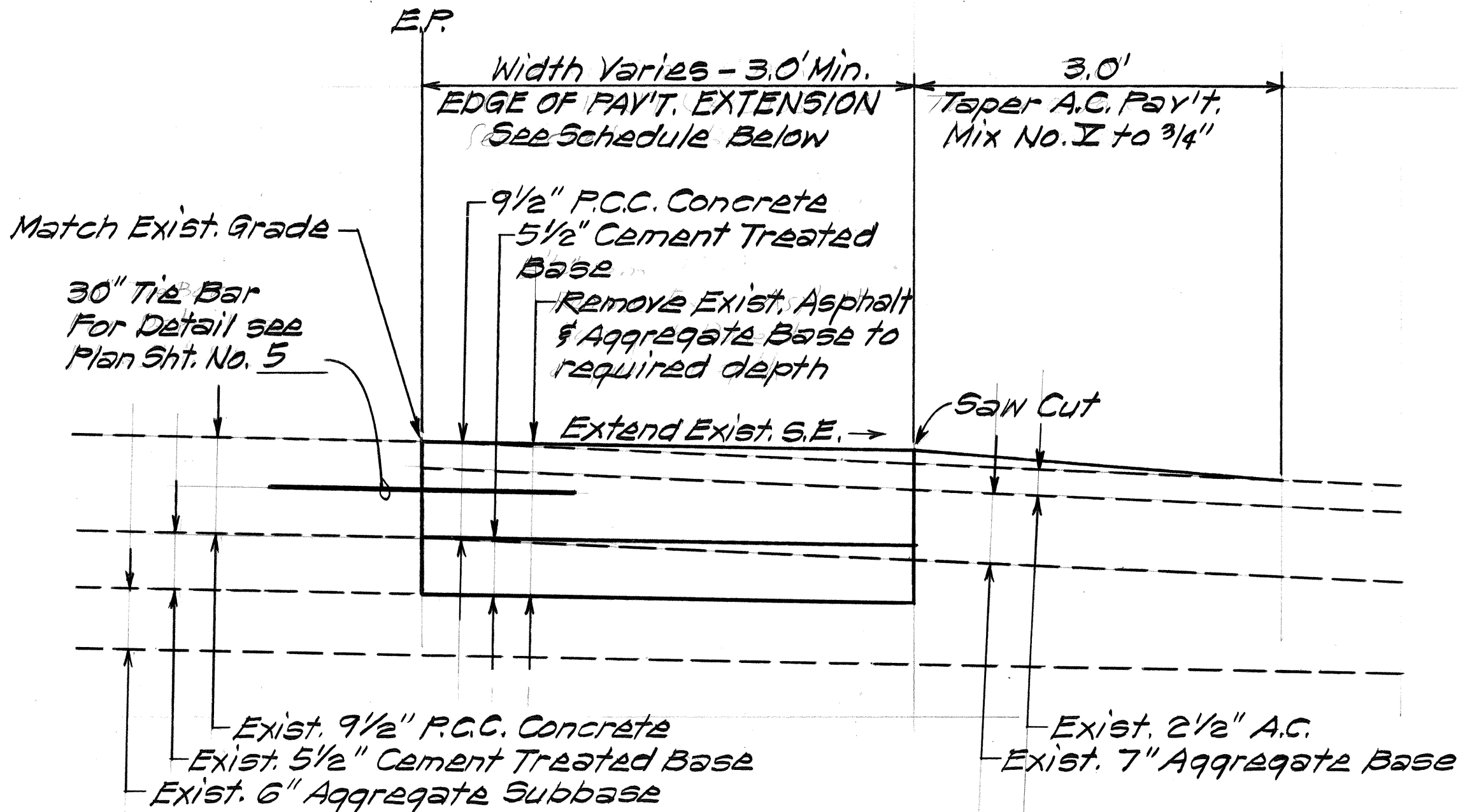
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TYPICAL SECTION
H-2~H-1 MERGE

INTERSTATE ROUTE H-1
ADDITIONAL LANES
F.A.I. Proj. No. IR-HI-1(193)

Scale: As Shown Date: June, 1986
SHEET NO. 1A OF 7 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IR-HI-1 (193)	1986	4	62



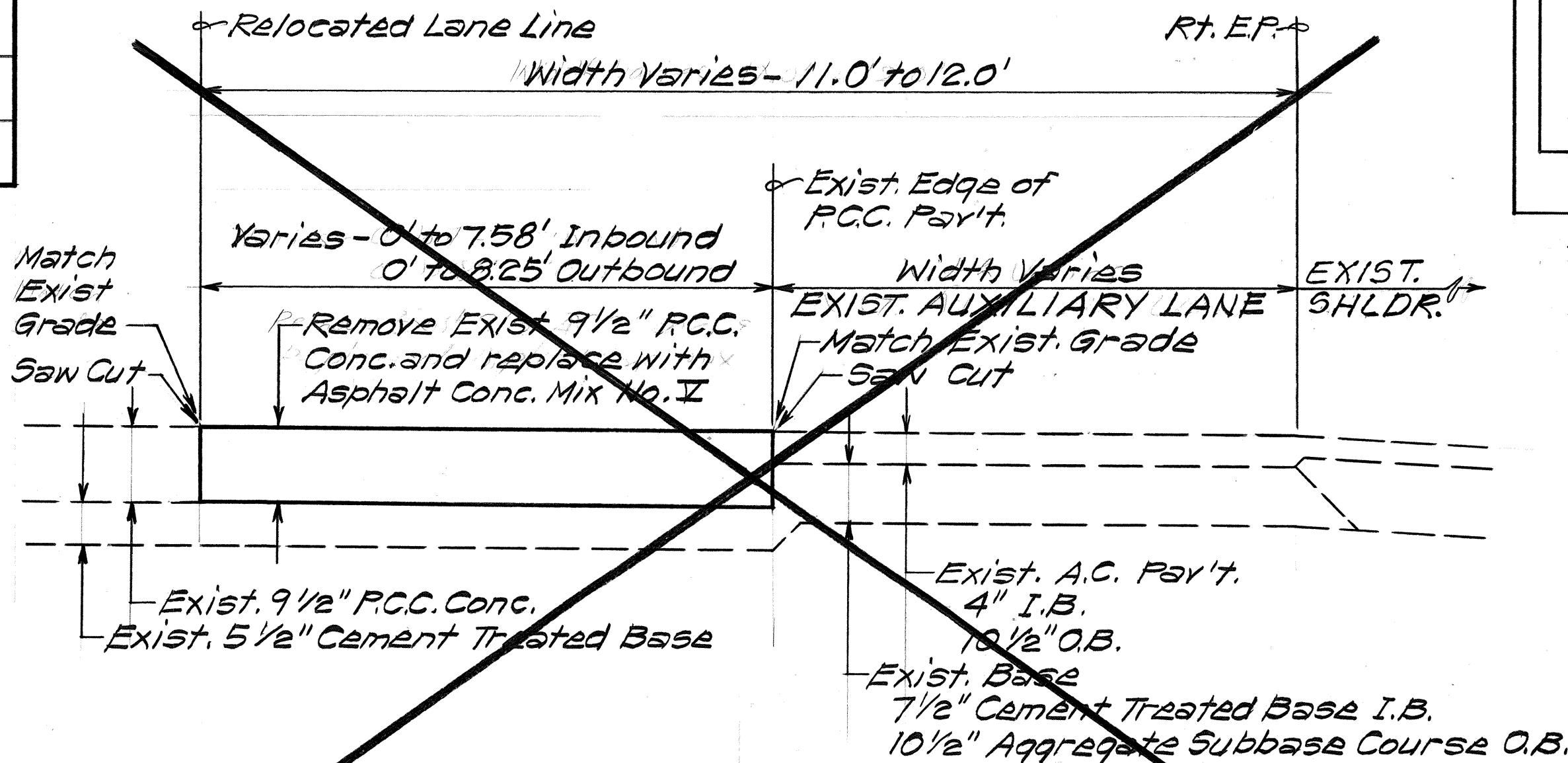
NOTE: New P.C.C. Pavement to be longitudinally grooved.

**TYPICAL SECTION
EXTENDING OUTSIDE E.P. WITH P.C.C. PAV'T.**

Scale: 1" = 1'-0"

SCHEDULE FOR OUTSIDE E.P. EXTENSION	
LIMITS~# STA. TO # STA.	WIDTH
I.B. 168+90± - 171+00±	3'
" 171+00± - 172+92.20	Varies 3' to 6'-8"
" 172+92.20 - 174+90±	Varies 3'-8" to 3'
" 174+90± - 175+46±	3'
O.B. 170+70± - 172+60±	3'
" 172+60± - 173+03.58	Varies 3' to 6'
" 173+03.58 - 177+30±	3'

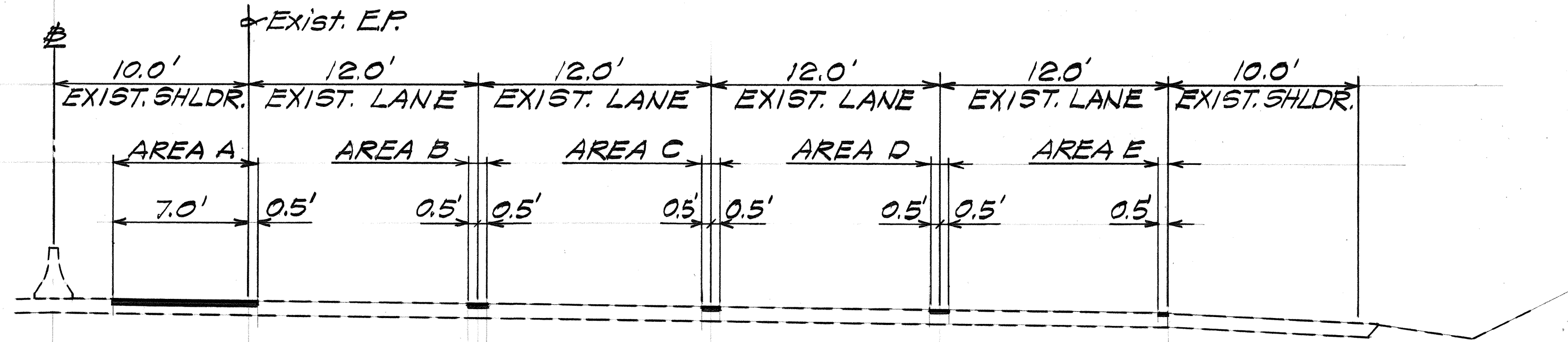
Triangular P.C.C. Taper Ends, # Sta. 172+89.20 to # Sta. 172+92.20 I.B. and # Sta. 173+00.58 to # Sta. 173+03.58 O.B., shall be saw cut perpendicular to the existing Edge of Pavement and removed prior to placement of new P.C.C. Pavement Extension.



**TYPICAL SECTION
REPLACEMENT OF P.C.C. PAV'T. IN OUTSIDE LANE**

I.B. & O.B. # Sta. 97+00± to # Sta. 102+44±

Scale: 3/4" = 1'-0"



NOTE: AREAS A, B, C, D & E to be grooved. See Schedule Below.
Existing Raised Pavement Markers to be removed prior to grooving.

**TYPICAL SECTION
GROOVING OF EXIST. P.C.C. PAV'T.**
Not to Scale

SCHEDULE FOR GROOVING EXIST. P.C.C. PAVEMENT						
LIMITS~# STA. TO # STA.	GROOVING WIDTH IN FEET					TOTAL AREA (S.Y.)
	AREA A	AREA B	AREA C	AREA D	AREA E	
I.B. 3+79± - 62+67±	7.5	1	1	1	0	6867
" 75+10± - 102+44±	0.5	1	1	1	0	1063
" 111+04± - 123+74±	7.5	1	1	1	0	1481
" 123+74± - 144+84±	0.5	1	1	1	0	821
" 149+64± - 162+70±	0.5	1	1	1	0	508
" 168+70± - 175+46±	0.5	1	1	1	0.5	300
O.B. 111+04± - 123+74±	7.5	1	1	1	0	1481
" 123+74± - 144+84±	0.5	1	1	1	0	821
" 149+64± - 170+70±	0.5	1	1	1	0	819
" 170+70± - 177+30±	0.5	1	1	1	0.5	293
I.B. 63+17± - 72+22±	0.5	1	1	1	0	352
I.B. 72+22± - 75+10±	7.5	1	1	1	0	336
TOTAL						15,142

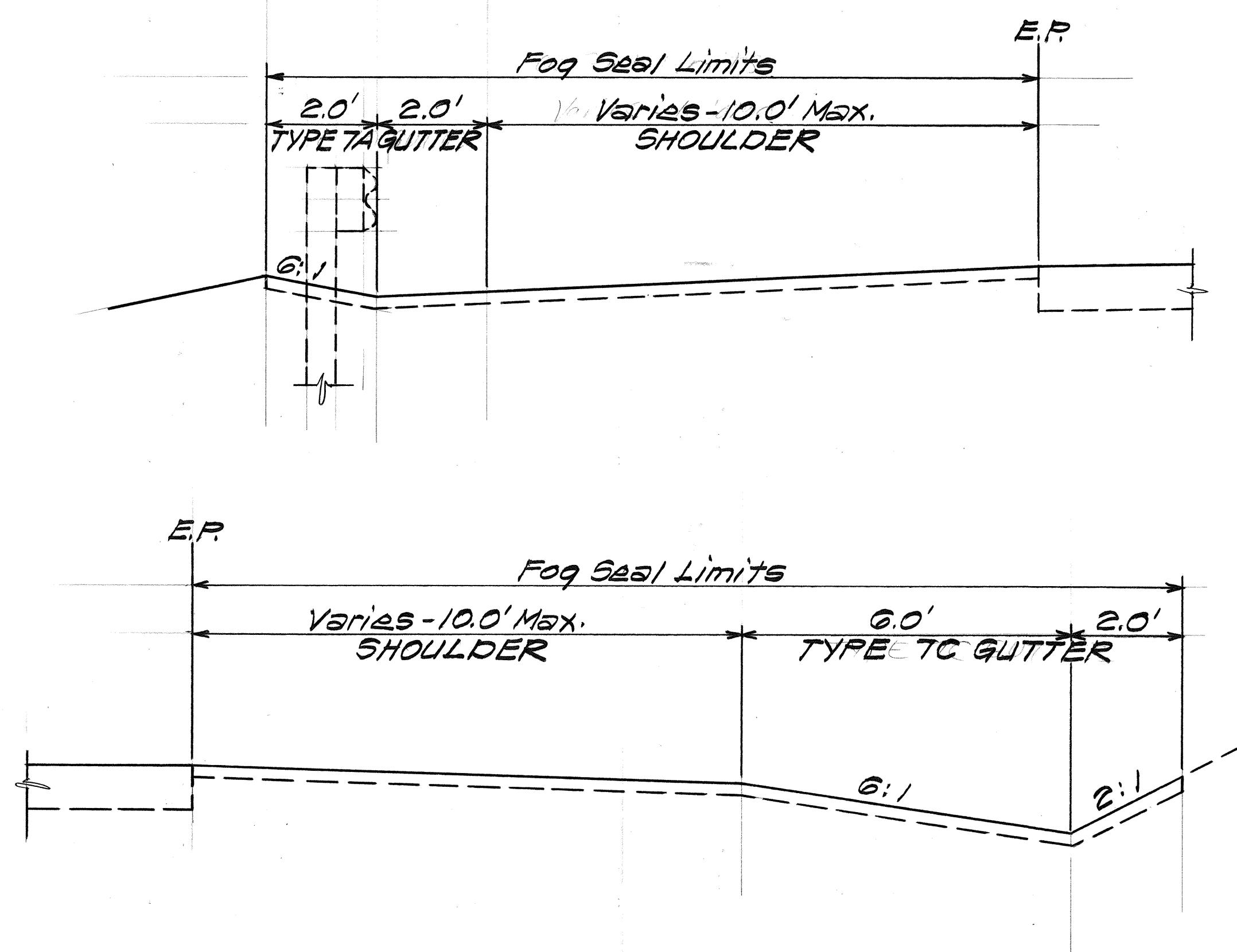
DATE	
SURVEY PLOTTED BY	
ORIGINAL PLAN	
DESIGNED BY	
NOTED BY	
CHECKED BY	
NO.	

9/3/86	Deleted Typical Section - Replacement of P.C.C. Pav't. in Outside Lane. Revised Schedule for Grooving Exist. P.C.C. Pav't.
DATE	REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TYPICAL SECTIONS & SCHEDULES
PCC PAVEMENT~EXTENSION,
REPLACEMENT & GROOVING
INTERSTATE ROUTE H-1
ADDITIONAL LANES
F.A.I. Proj. No. IR-HI-1(193)
Scale: As Shown Date: Aug., 1985
SHEET No. 2 OF 7 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IR-H-1 (193)	1986	5	62

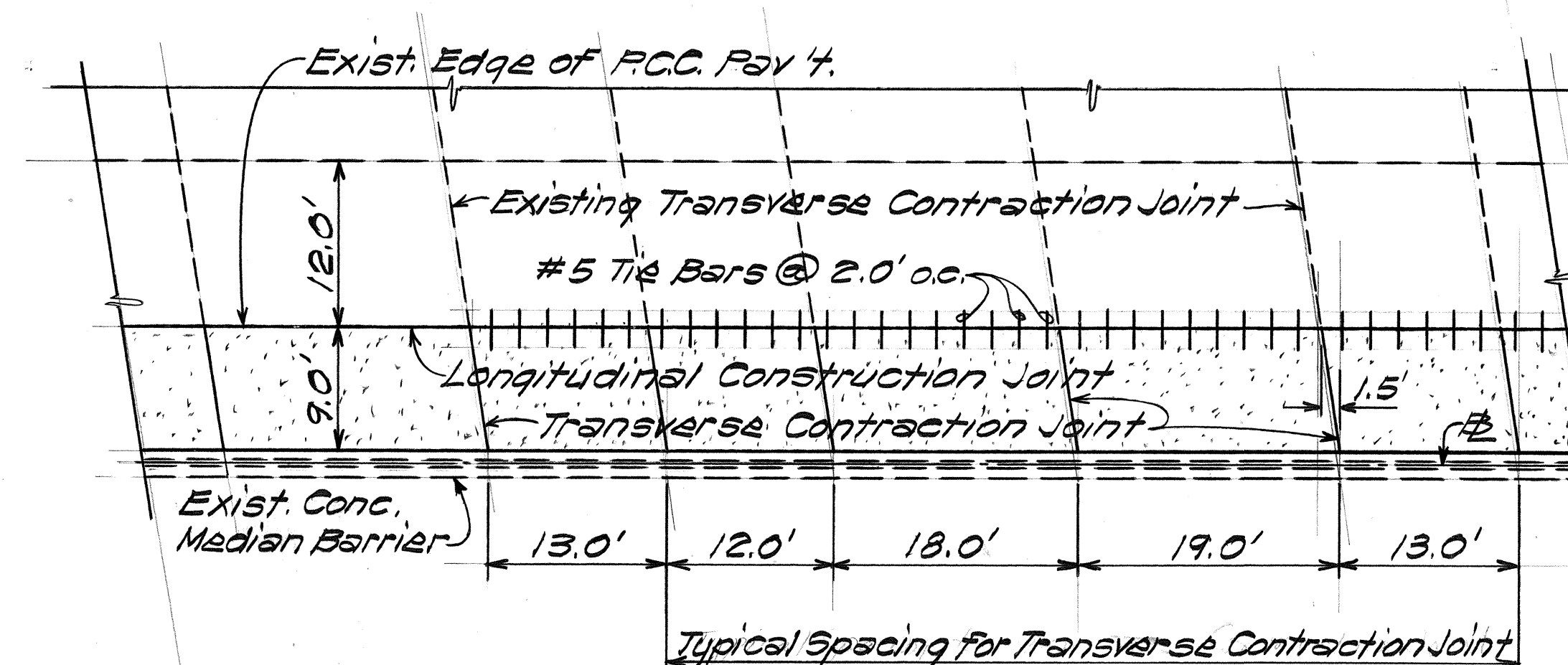


FOG SEAL TREATMENT
OF A.C. SHOULDERS & GUTTERS DETAILS

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

FOG SEAL TREATMENT OF A.C. SHOULDERS & GUTTERS SCHEDULE				
LIMITS ~ # STA. TO # STA.	SHLDR. WIDTH (Lin. Ft.)	GUTTER TYPE	LENGTH x WIDTH (Ft. x Ft.)	AREA (Sq. Ft.)
I.B. 76+00±-91+00±	10	7A	1500 x 14.1	21,150
" 91+00±-101+00±	10	7C	1000 x 18.3	18,300
" 101+00±-102+44±	10	7A	144 x 14.1	2,030
" 124+00±-144+84±	10	7C	2084 x 18.3	38,137
" 149+64±-162+70±	10	7C	1306 x 18.3	23,900
" 168+70±-175+46±	*Varies	7C	-	9,317
" 175+46±-183+50±	6	7A	804 x 10.1	8,120
" 185+00±-189+00±	6	7A	400 x 10.1	4,040
O.B. 124+00±-144+84±	10	7C	2084 x 18.3	38,137
" 149+64±-151+00±	10	7A	136 x 14.1	1,918
" 151+00±-163+00±	10	7C	1200 x 18.3	21,960
" 163+00±-170+70±	10	7A	770 x 14.1	10,857
" 170+70±-173+04±	Varies 7 to 5	7C	234 x 14.3	3,346
" 173+04±-177+50±	5	7C	446 x 13.3	5,932
" 177+50±-187+50±	Varies 8 to 6	7A	1000 x 11.1	1,110
TOTAL				208,244

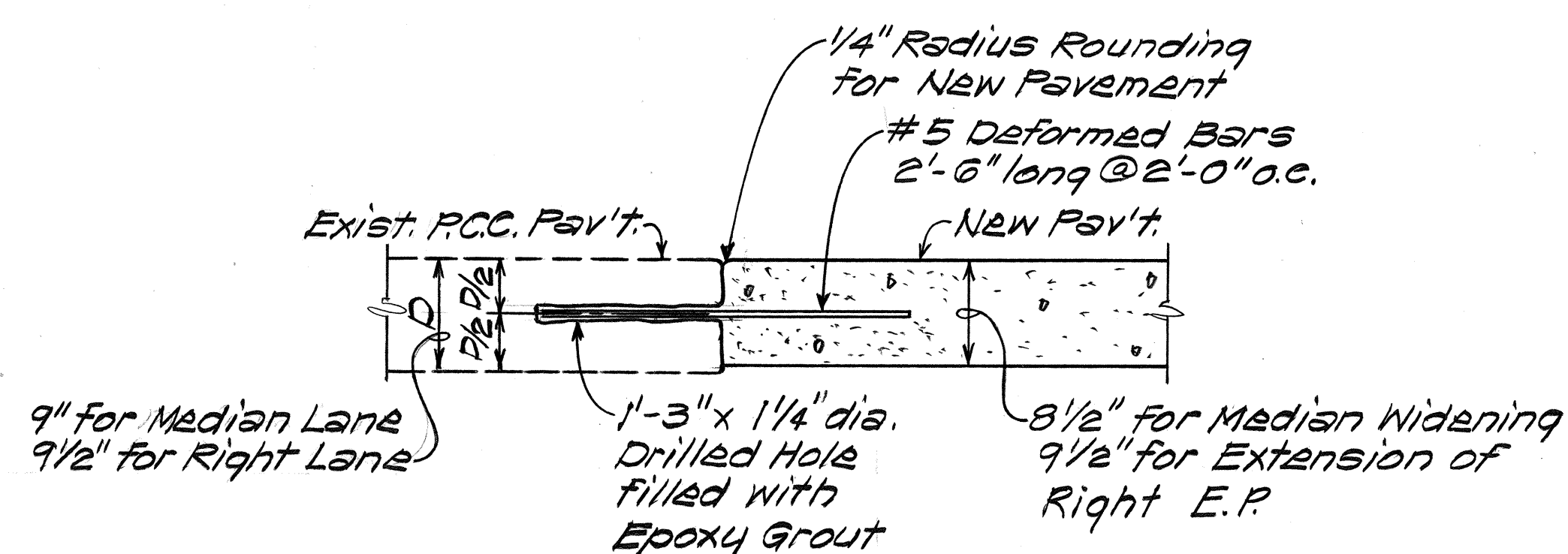
* See Schedule for Right E.P. Extension on Plan Sht. No. 4



NOTE: All work symmetrical about #.

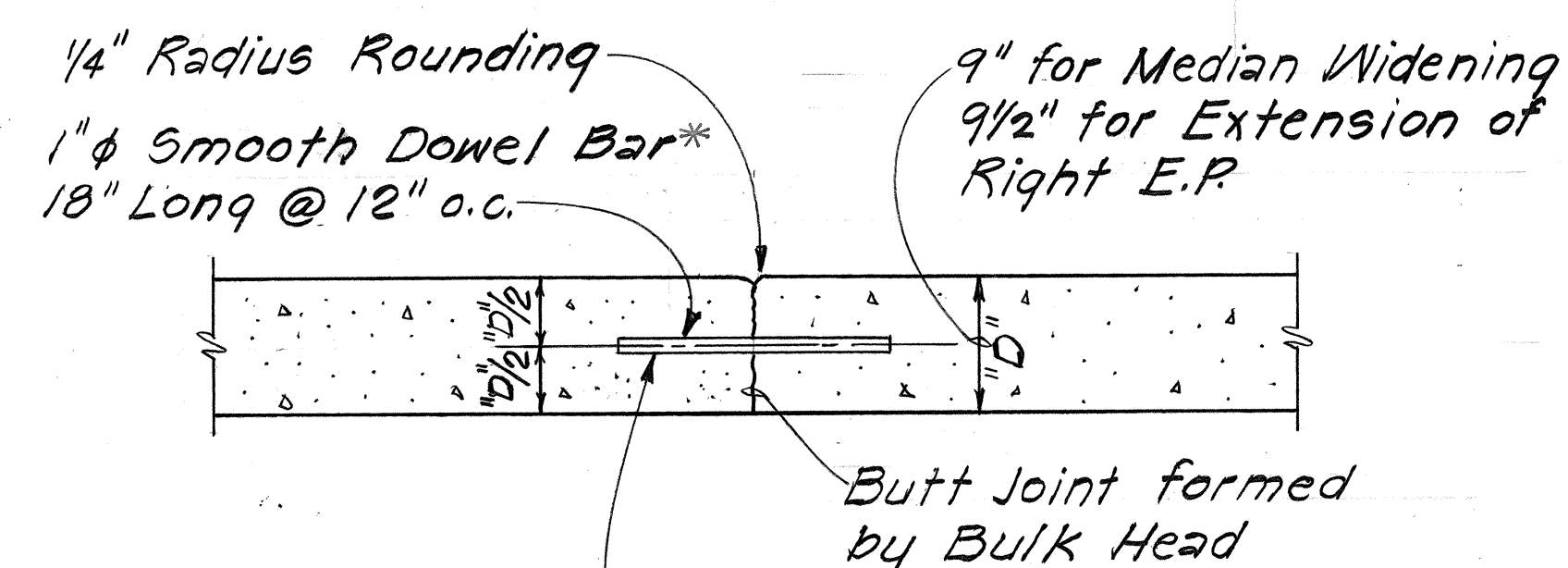
TYPICAL JOINT LOCATION AND LAYOUT PLAN

Scale: 1"=10'



LONGITUDINAL CONSTRUCTION JOINT

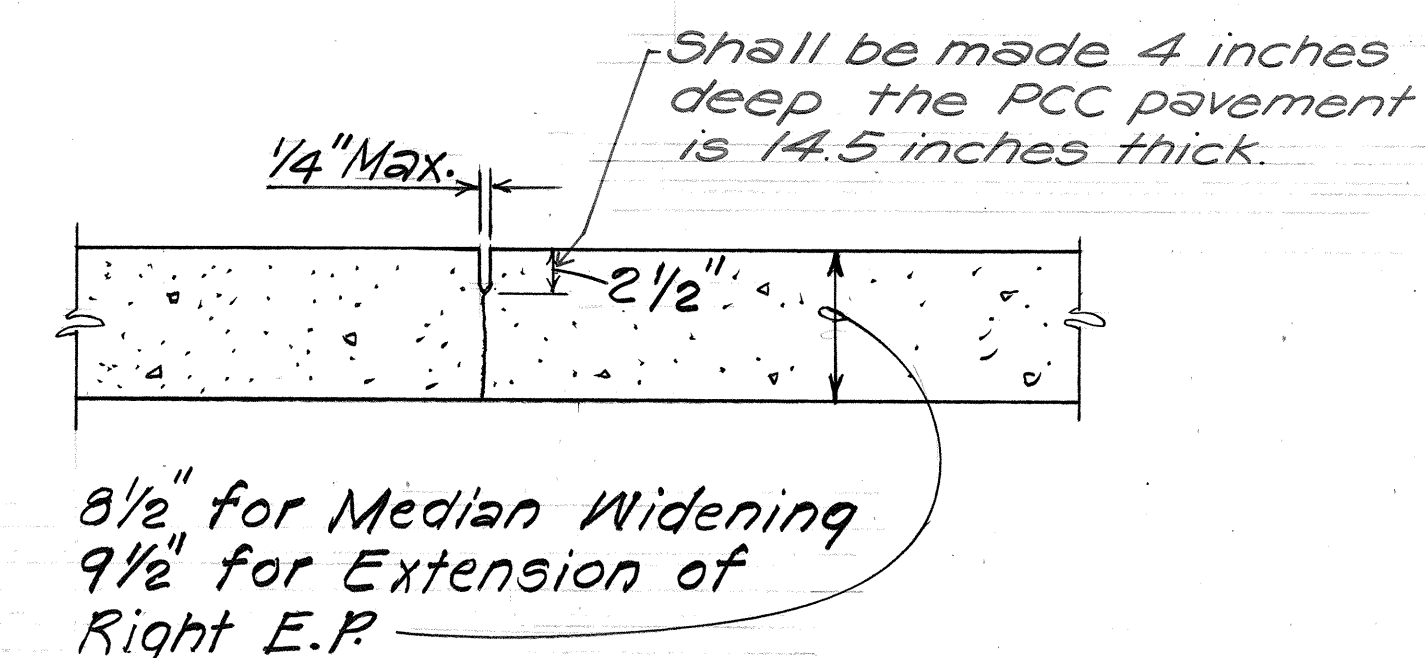
Scale: 1"=1'-0"



Dowels shall be positioned in place parallel to the pavement surface prior to paving and the ends of the Dowels shall not deviate more than 0.02' from the parallel.

TRANSVERSE CONSTRUCTION JOINT

Scale: 1"=1'-0"



TRANSEVERSE CONTRACTION JOINT

SAWED JOINT

Scale: 1"=1'-0"

*NOTE:
A30-81A 1-inch smooth
dowel bars used in lieu
of ASTM-015 1-inch smooth
dowel bars.

STATE OF HAWAII

DEPARTMENT OF TRANSPORTATION

HIGHWAYS DIVISION

DETAILS & SCHEDULE

FOG SEAL &

PCC PAVEMENT JOINTS

INTERSTATE ROUTE H-1

ADDITIONAL LANES

F.A.I. Proj. No. IR-H-1 (193)

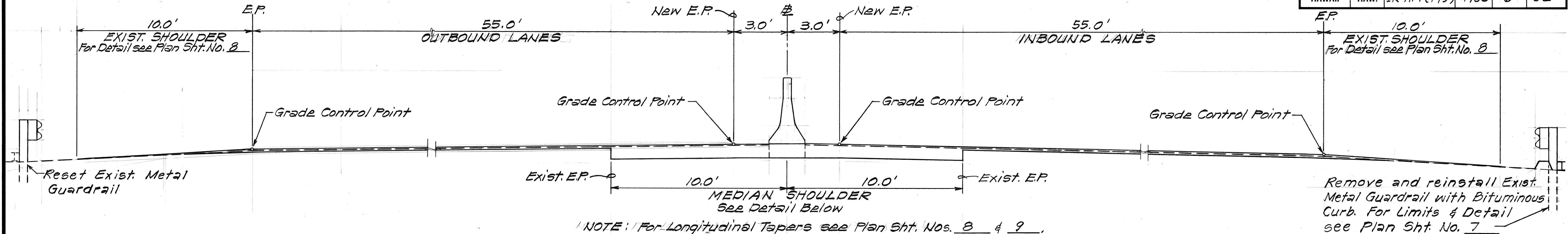
Scale: As Shown

Date: Sept. 1985

SHEET No. 3 OF 7 SHEETS

DATE	
SURVEY PLOTTED BY	
ORIGINAL PLAN	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
NO.	

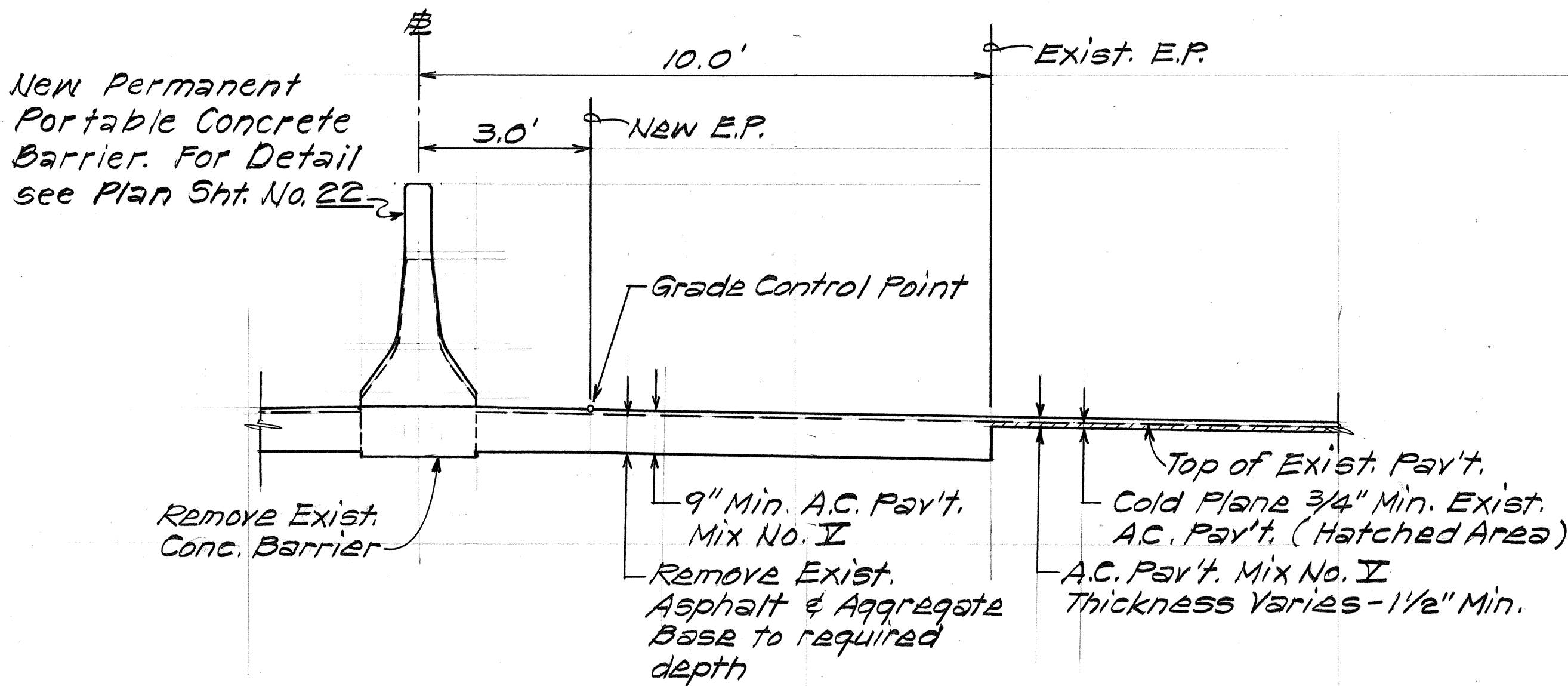
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IR-HI-1(193)	1986	6	62



ELEVATIONS FOR GRADE CONTROL POINTS ~ SETTLEMENT AREA I				
OUTBOUND		# STATION	INBOUND	
LT. E.P.	RT. E.P.		LT. E.P.	RT. E.P.
64.07 (64.07)	64.83 (64.83)	102+50	64.83 (64.72)	64.07 (63.94)
62.75 (62.60)	63.62 (63.59)	103+00	63.62 (63.55)	62.75 (62.48)
61.17 (61.27)	62.16 (62.16)	103+50	62.16 (62.07)	61.17 (61.18)
59.40 (59.12)	60.70 (60.34)	104+00	60.70 (60.23)	59.40 (59.36)
57.80 (57.64)	59.23 (58.81)	104+50	59.23 (58.54)	57.83 (57.51)
56.37 (56.11)	57.77 (57.11)	105+00	57.77 (56.90)	56.25 (55.99)
55.08 (54.89)	56.31 (55.99)	105+50	56.31 (55.65)	54.94 (54.88)
53.83 (53.72)	54.85 (54.56)	106+00	54.85 (54.28)	53.70 (53.67)
52.44 (52.30)	53.30 (53.30)	106+50	53.30 (53.29)	52.44 (52.50)
51.09 (51.06)	51.92 (51.83)	107+00	51.92 (51.66)	51.09 (51.07)
49.63 (49.73)	50.46 (50.40)	107+50	50.46 (50.20)	49.63 (49.56)
48.17 (48.37)	49.00 (48.91)	108+00	49.00 (48.87)	48.17 (48.08)
47.00 (46.89)	47.83 (47.72)	108+50	47.83 (47.67)	47.00 (46.84)
45.86 (45.88)	46.69 (46.60)	109+00	46.69 (46.61)	45.86 (45.66)
44.92 (44.99)	45.75 (45.69)	109+50	45.75 (45.65)	44.92 (44.86)
44.11 (43.99)	44.94 (44.83)	110+00	44.94 (44.76)	44.11 (44.11)
43.52 (43.42)	44.35 (44.22)	110+50	44.35 (44.19)	43.52 (43.52)
43.26 (43.26)	44.04 (44.02)	111+00	44.04 (44.06)	43.26 (43.18)

64.07 - New Finish Elevation
(64.07) - Exist. Elevation

TYPICAL SECTION ~ SETTLEMENT AREAS I & II
 # Sta. 102+69 ± to # Sta. 110+79 ±
 # Sta. 145+09 ± to # Sta. 149+39 ±
 Scale: 3/8" = 1'-0"



NOTE: All work symmetrical about Baseline.
MEDIAN SHOULDER DETAIL
 Scale: 1/2" = 1'-0"

ELEVATIONS FOR GRADE CONTROL POINTS ~ SETTLEMENT AREA II				
OUTBOUND		# STATION	INBOUND	
LT. E.P.	RT. E.P.		LT. E.P.	RT. E.P.
104.60 (104.55)	105.46 (105.42)	145+00	105.46 (105.36)	104.60 (104.58)
104.32 (104.34)	105.15 (105.00)	145+50	105.15 (105.14)	104.26 (104.43)
103.98 (104.09)	104.81 (104.33)	146+00	104.81 (104.36)	103.70 (103.60)
103.63 (103.50)	104.46 (103.61)	146+50	104.46 (103.43)	103.12 (102.72)
103.28 (103.22)	104.11 (103.27)	147+00	104.11 (103.17)	102.80 (102.55)
103.06 (103.07)	103.89 (103.12)	147+50	103.89 (103.05)	102.79 (102.48)
102.93 (102.77)	103.76 (102.93)	148+00	103.76 (102.72)	102.71 (102.40)
102.80 (102.66)	103.63 (103.30)	148+50	103.63 (103.22)	102.63 (102.67)
102.67 (102.63)	103.50 (103.52)	149+00	103.50 (103.44)	102.55 (102.64)
102.40 (102.38)	103.30 (103.28)	149+50	103.30 (103.24)	102.34 (102.31)

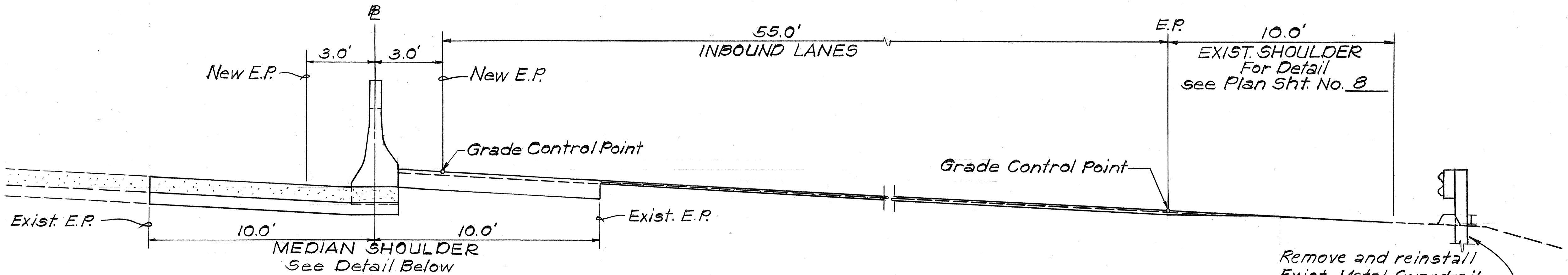
104.60 - New Finish Elevation
(104.55) - Exist. Elevation

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TYPICAL SECTIONS & SCHEDULES
SETTLEMENT AREAS I & II

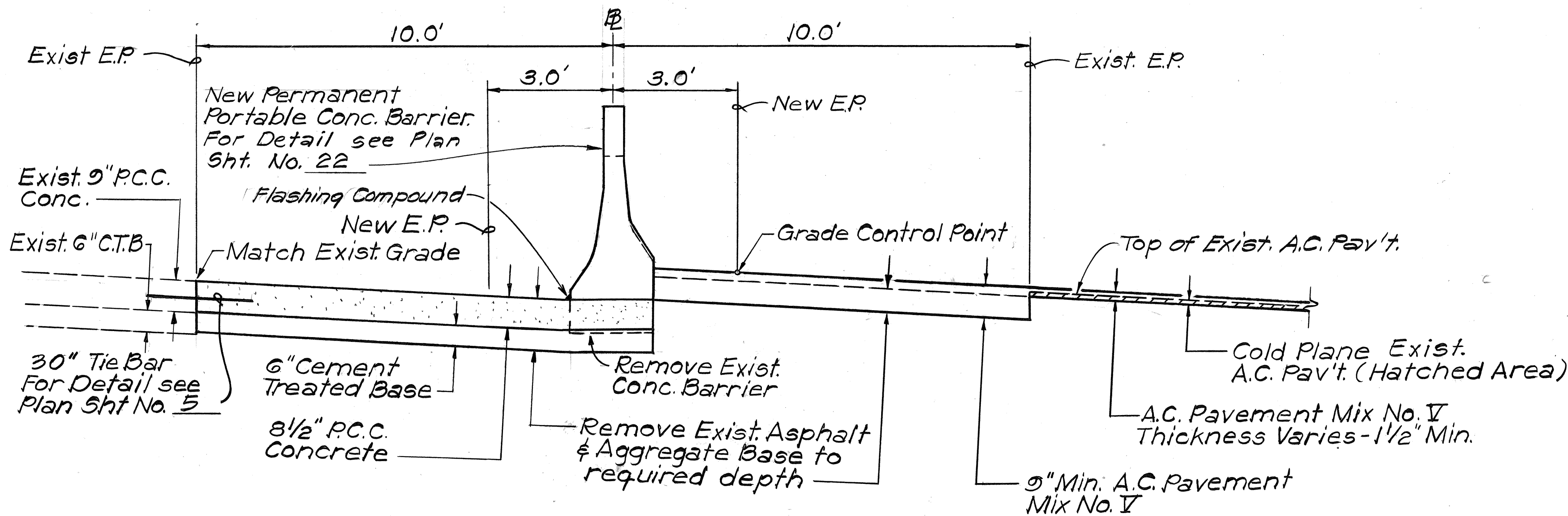
INTERSTATE ROUTE H-1
ADDITIONAL LANES
F.A.I. Proj. No. IR-HI-1(193)
Scale: As Shown Date: July, 1985

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IR-HI-1(193)	1986	7	62



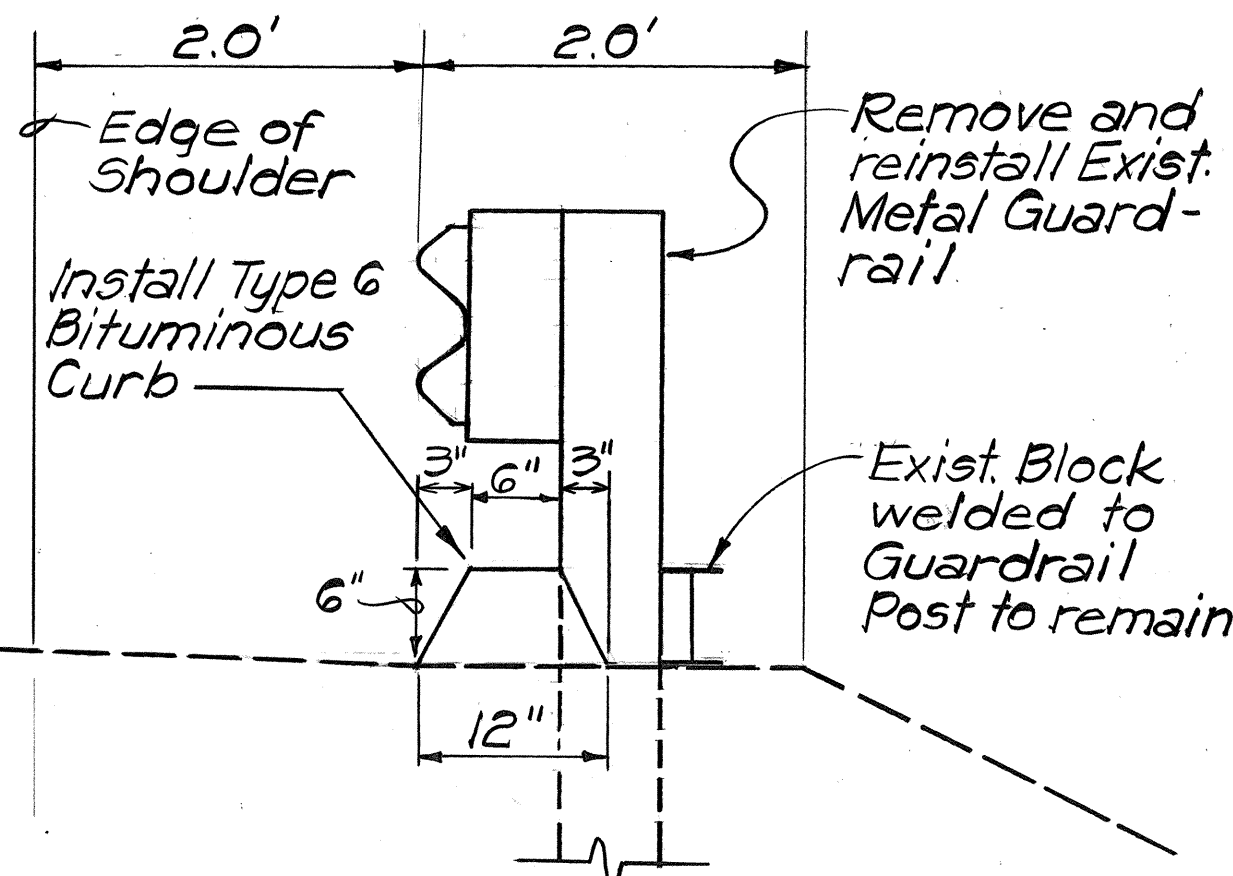
TYPICAL SECTION ~ SETTLEMENT AREA III

Sta. 162+95± to Sta. 168+45±
Scale: 3/8" = 1'-0"



MEDIAN SHOULDER DETAIL

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



GUARDRAIL WITH BITUMINOUS CURB DETAIL

1.B. STA. 102+00± to STA. 110+50±
1.B. STA. 145+00± to STA. 149+20±
1.B. STA. 163+50± to STA. 168+70±
Scale: 1" = 1'-0"

ELEVATIONS FOR GRADE CONTROL POINTS- SETTLEMENT AREA III

STATION	INBOUND	
	LT.E.P.	RT.E.P.
163+00	96.86 (96.67)	93.89 (93.77)
163+50	96.87 (96.69)	93.90 (93.82)
164+00	96.90 (96.80)	93.75 (93.79)
164+50	96.91 (96.85)	93.73 (93.54)
165+00	97.10 (96.90)	94.00 (93.82)
165+50	97.43 (97.36)	94.46 (94.40)
166+00	97.95 (97.75)	94.98 (94.92)
166+50	98.81 (98.73)	95.78 (95.70)
167+00	99.66 (99.53)	96.50 (96.32)
167+50	100.68 (100.32)	97.37 (97.12)
168+00	101.75 (101.67)	98.35 (98.35)
168+50	102.50 (102.44)	99.30 (99.29)

96.86 - New Finish Elevation
(96.67) - Exist. Elevation

NOTES ~ SETTLEMENT AREA III

- For Longitudinal Tapers see Plan Sht. Nos. 8 & 9.
- New P.C.C. Pavement to be grooved.
- Thermal Crack Sealing shall be done within the limits of Settlement Area III prior to resurfacing and as specified in Section 415 of the Special Provisions. Longitudinal Joints between P.C.C. Slabs, and between P.C.C. Slabs and the Asphalt Concrete shall be sealed. All Transverse Joints in the P.C.C. Slabs to be resurfaced shall be sealed. The exact limits shall be determined in the field by the Engineer.
- Cold Plane exist. Asphalt Concrete Pavement to top of existing P.C.C. Pavement or as directed by the Engineer.
- 1/2" Joint Filler shall be placed between all vertical surfaces of the existing Median Drop Intakes and the new P.C.C. Pavement.

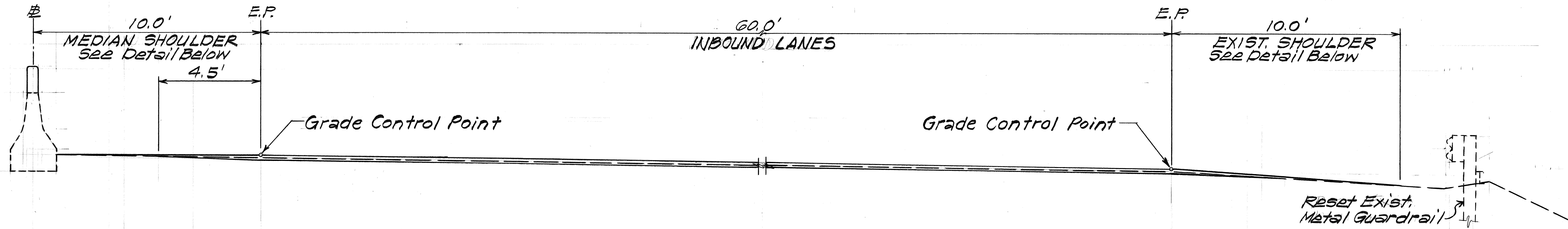
1/7/86	Revised Typical Section.
DATE	REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TYPICAL SECTIONS & SCHEDULE
SETTLEMENT AREA III
INTERSTATE ROUTE H-1
ADDITIONAL LANES
F.A.I. Proj. No. IR-HI-1(193)
Scale: As Shown Date: July, 1985
SHEET No. 5 OF 7 SHEETS

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

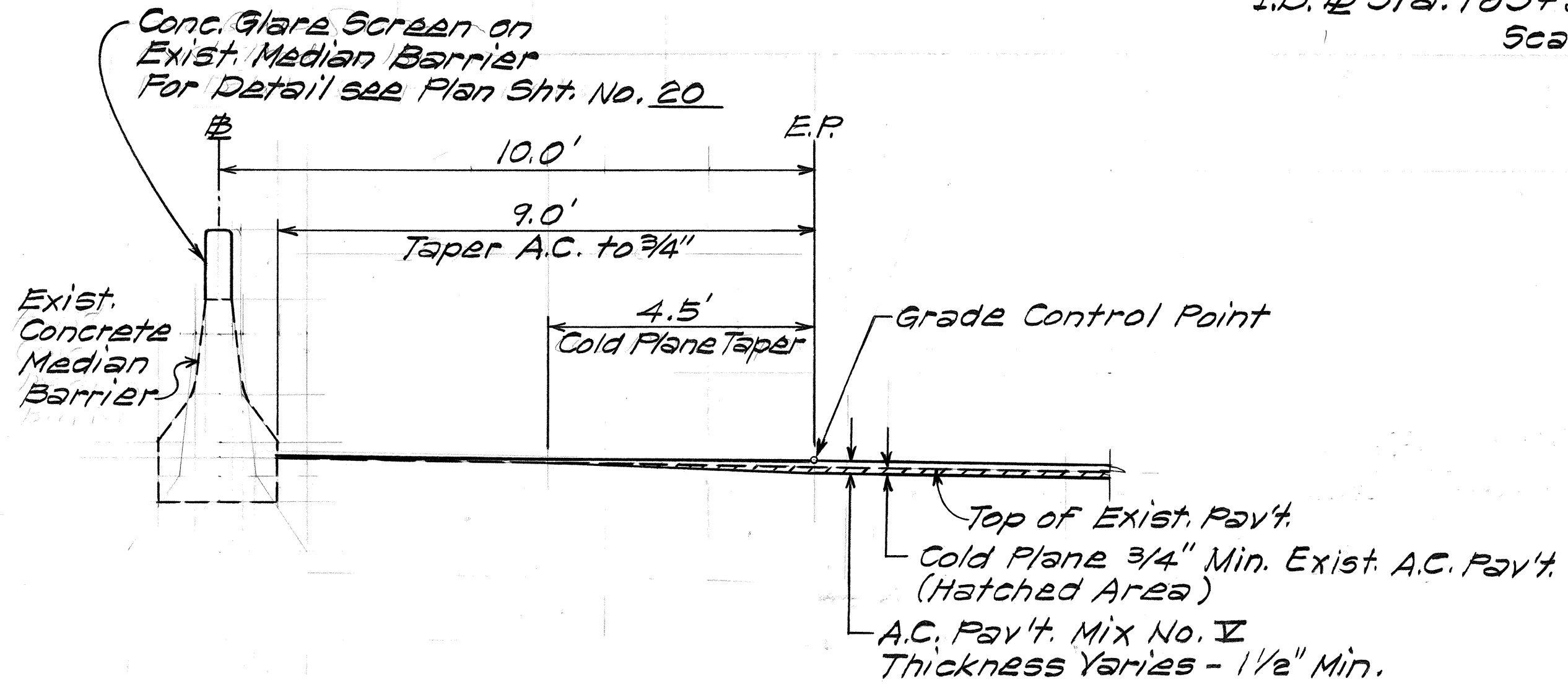
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IR-HI-1(193)	1986	8	62



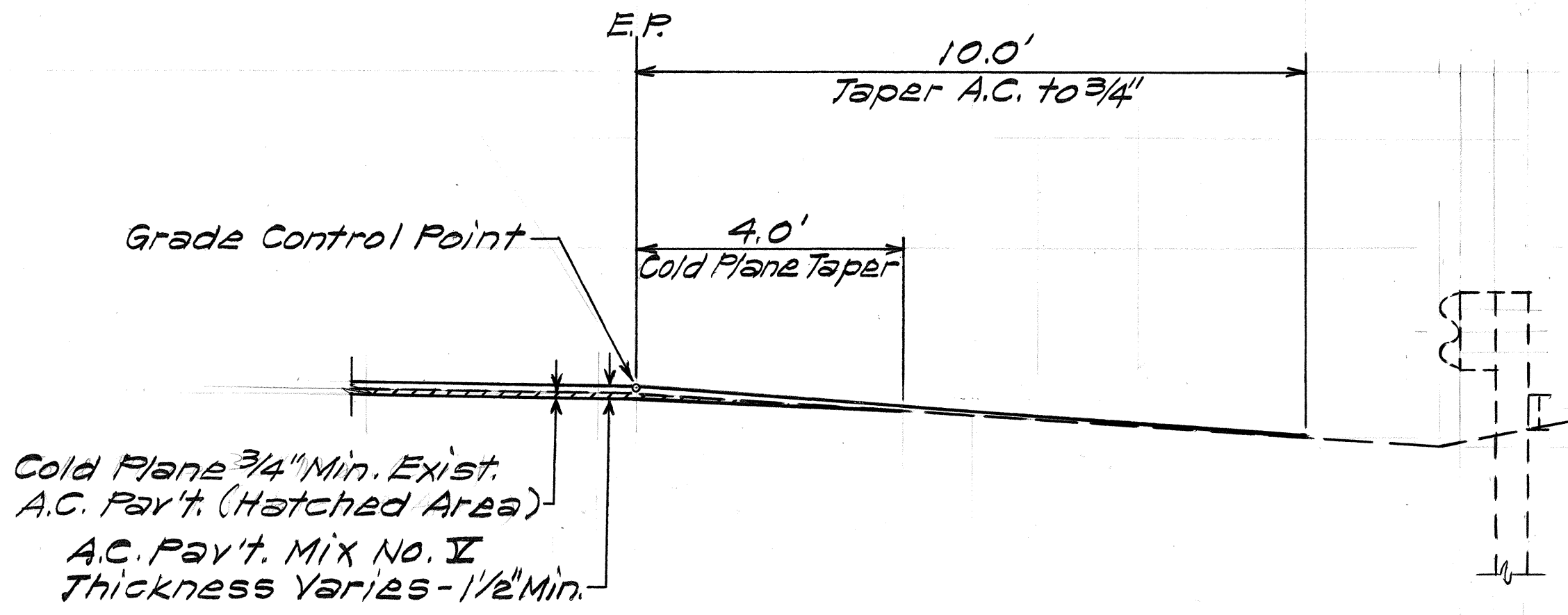
TYPICAL SECTION ~ SETTLEMENT AREA IV
 I.B. Sta. 183+75± to Sta. 184+75±
 Scale: 3/8" = 1'-0"

# STATION	INBOUND	
	LT. E.P.	RT. E.P.
183 + 50	82.40 (82.40)	81.53 (81.53)
184 + 00	81.18 (81.10)	80.20 (79.99)
184 + 50	79.84 (79.91)	78.86 (78.77)
185 + 00	78.51 (78.51)	77.53 (77.53)

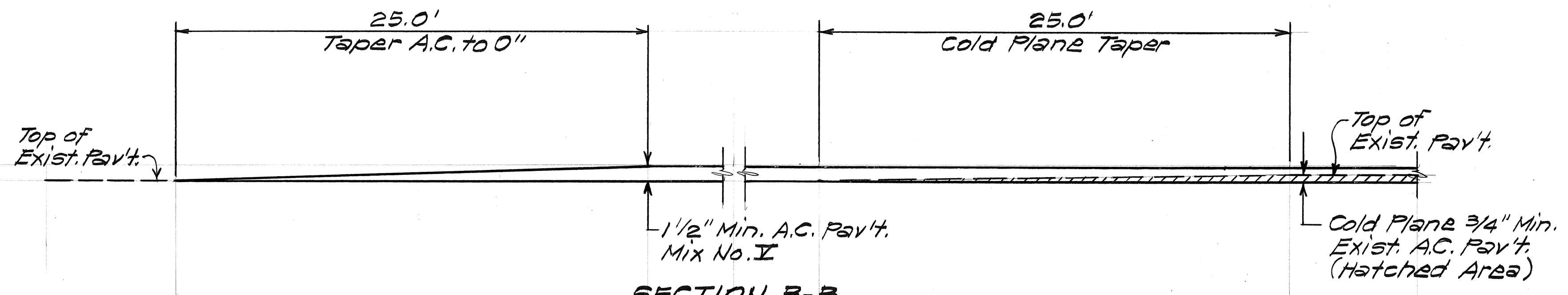
82.40 - New Finish Elevation
 (82.40) - Exist. Elevation



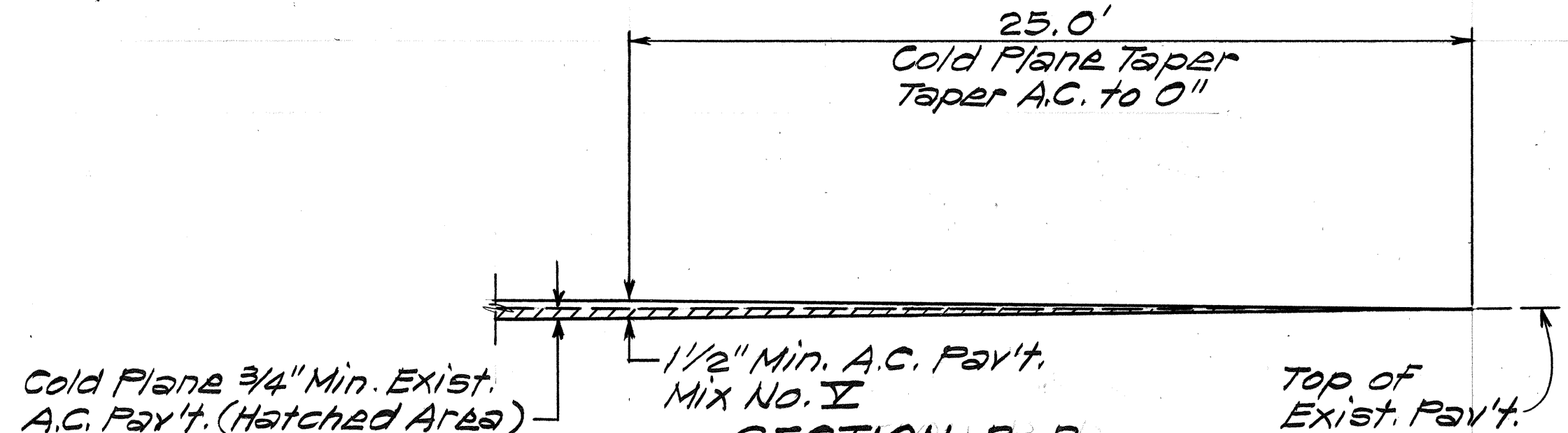
MEDIAN SHOULDER DETAIL
 Scale: 1/2" = 1'-0"



TYPICAL SHOULDER DETAIL
 Scale: 1/2" = 1'-0"



SECTION B-B LONGITUDINAL TAPER ~ TYPE 1
 I.B. & O.B. Sta. 102+44± to Sta. 102+69± 15±
 I.B. & O.B. Sta. 144+84± to Sta. 145+09±
 I.B. Sta. 149+39± to Sta. 149+64±
 I.B. Sta. 183+50± to Sta. 183+75±
 Not to Scale

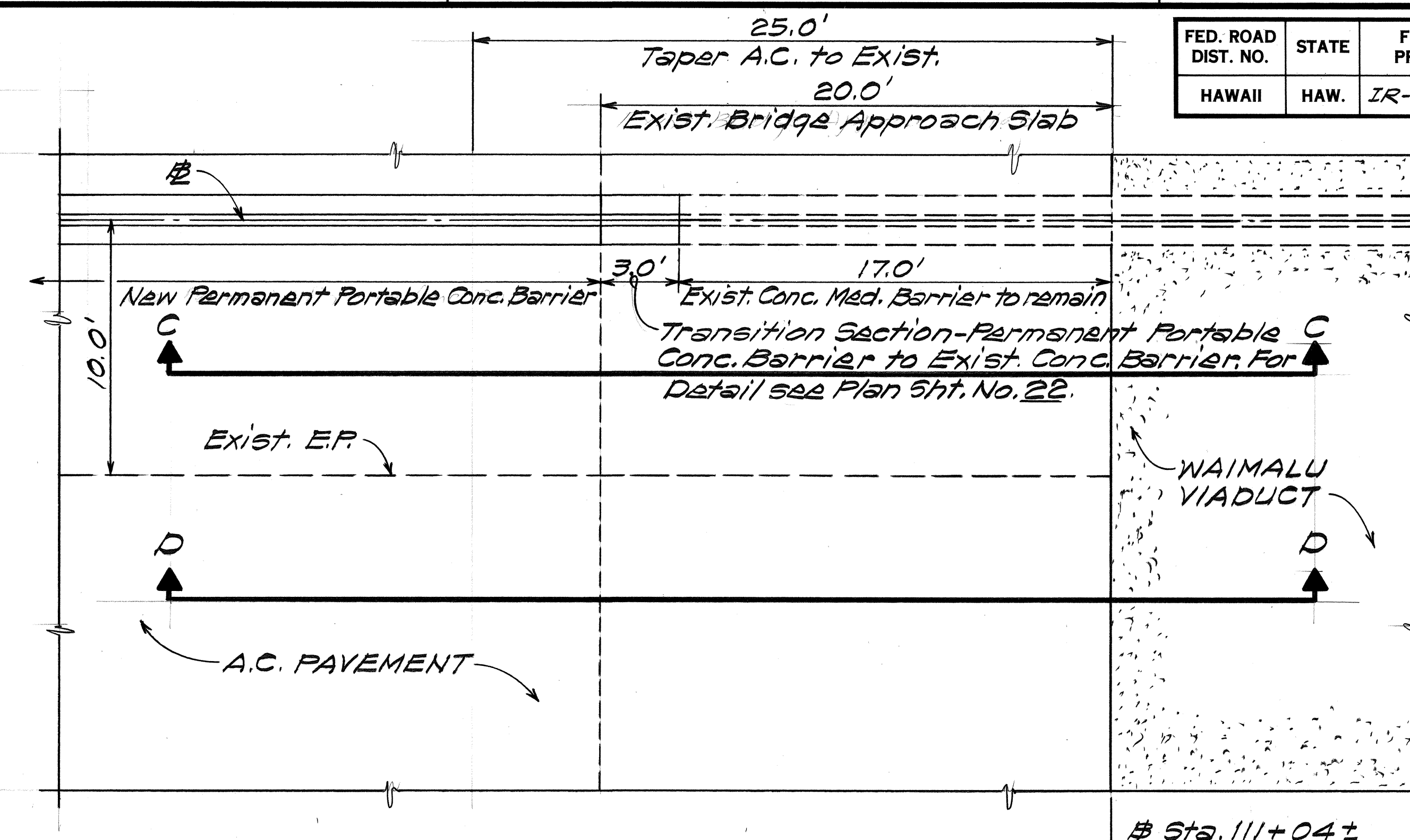
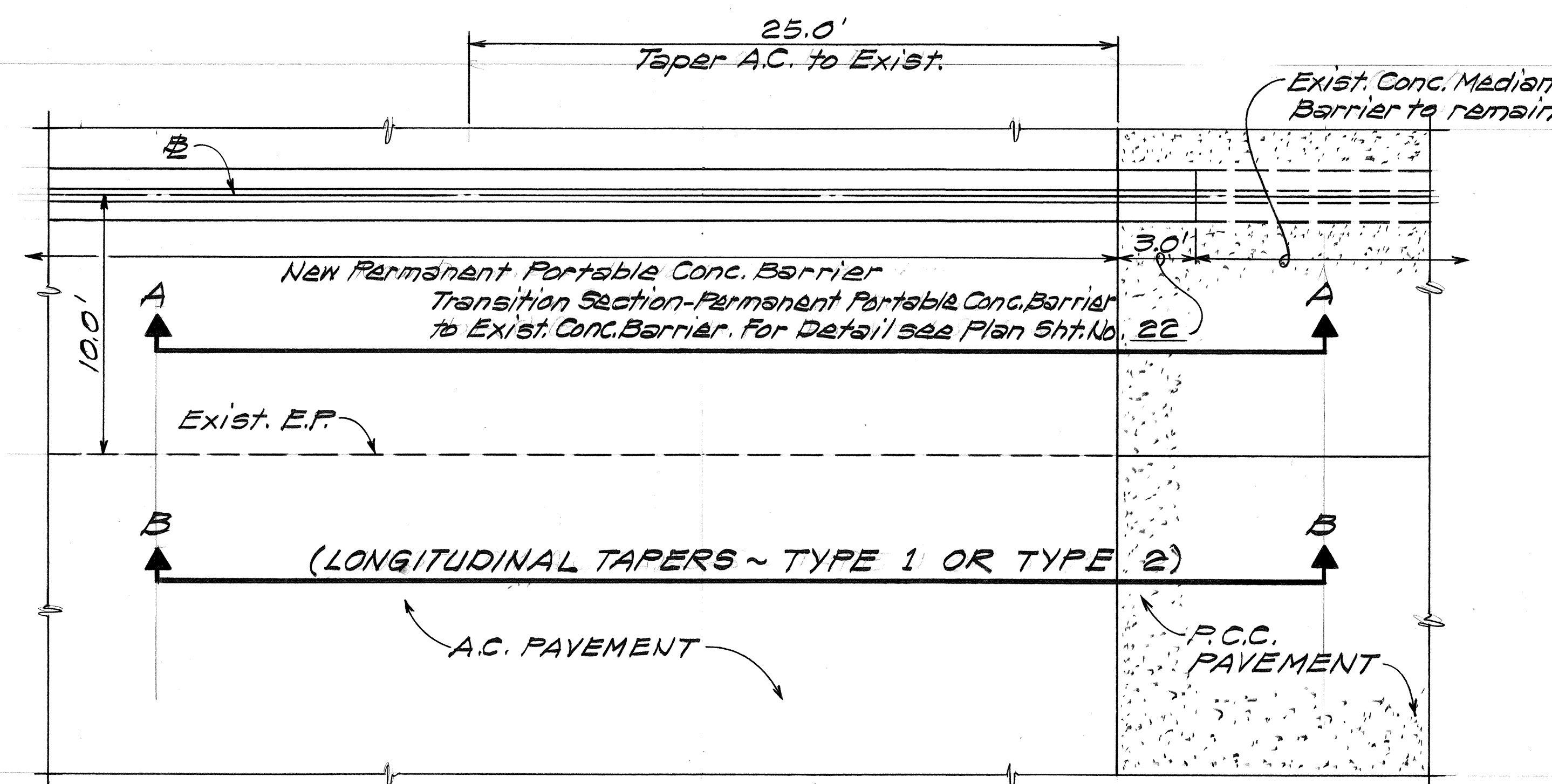


SECTION B-B LONGITUDINAL TAPER ~ TYPE 2
 O.B. Sta. 149+39± to Sta. 149+64±
 I.B. Sta. 162+70± to Sta. 162+95±
 I.B. Sta. 168+45± to Sta. 168+70±
 I.B. Sta. 184+75± to Sta. 185+00±
 Not to Scale

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION
TYPICAL SECTIONS & SCHEDULE FOR SETTLEMENT AREA IV & LONGITUDINAL TAPER DETAILS INTERSTATE ROUTE H-1 ADDITIONAL LANES
 F.A.I. Proj. No. IR-HI-1(193)
 Scale: As Shown Date: July, 1985
 SHEET NO. 6 OF 7 SHEETS

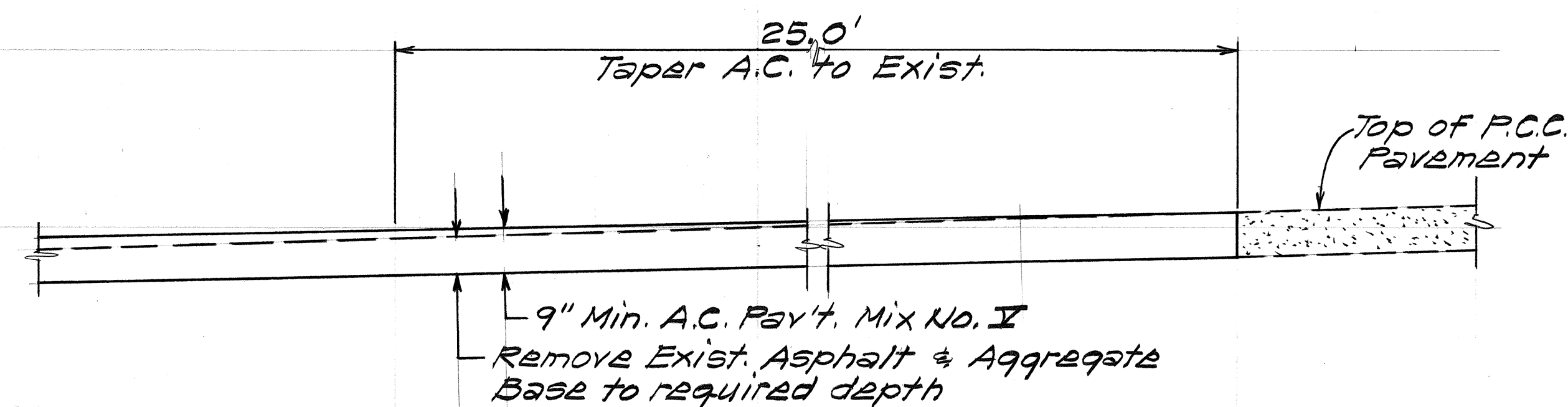
SURVEY PLOTTED BY	DATE
DRAWN BY	
DESIGNED BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
No.	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IR-HI-1(193)	1986	9	62



PARTIAL PLAN ~ LONGITUDINAL TAPER

I.B. & O.B. Sta. 102+44± to Sta. 102+69±
 I.B. & O.B. Sta. 144+84± to Sta. 145+09±
 I.B. & O.B. Sta. 149+35± to Sta. 149+60±
 I.B. Sta. 162+70± to Sta. 162+95±
 I.B. Sta. 168+45± to Sta. 168+70±
 Not to Scale



SECTION A-A

Not to Scale

SECTION B-B

For Details see Plan Sht. No. 8

LONGITUDINAL TAPER ~ TYPE 1

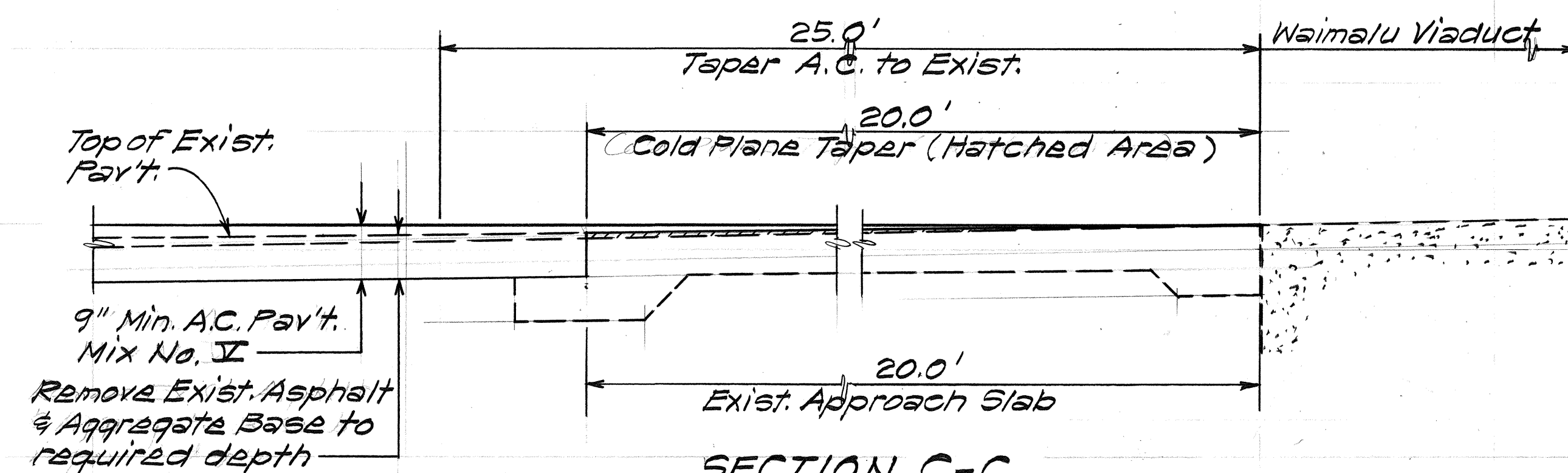
I.B. & O.B. Sta. 102+44± to Sta. 102+69±
 I.B. & O.B. Sta. 144+84± to Sta. 145+09±
 I.B. Sta. 149+39± to Sta. 149+64±

LONGITUDINAL TAPER ~ TYPE 2

O.B. Sta. 149+39± to Sta. 149+64±
 I.B. Sta. 162+70± to Sta. 162+95±
 I.B. Sta. 168+45± to Sta. 168+70±

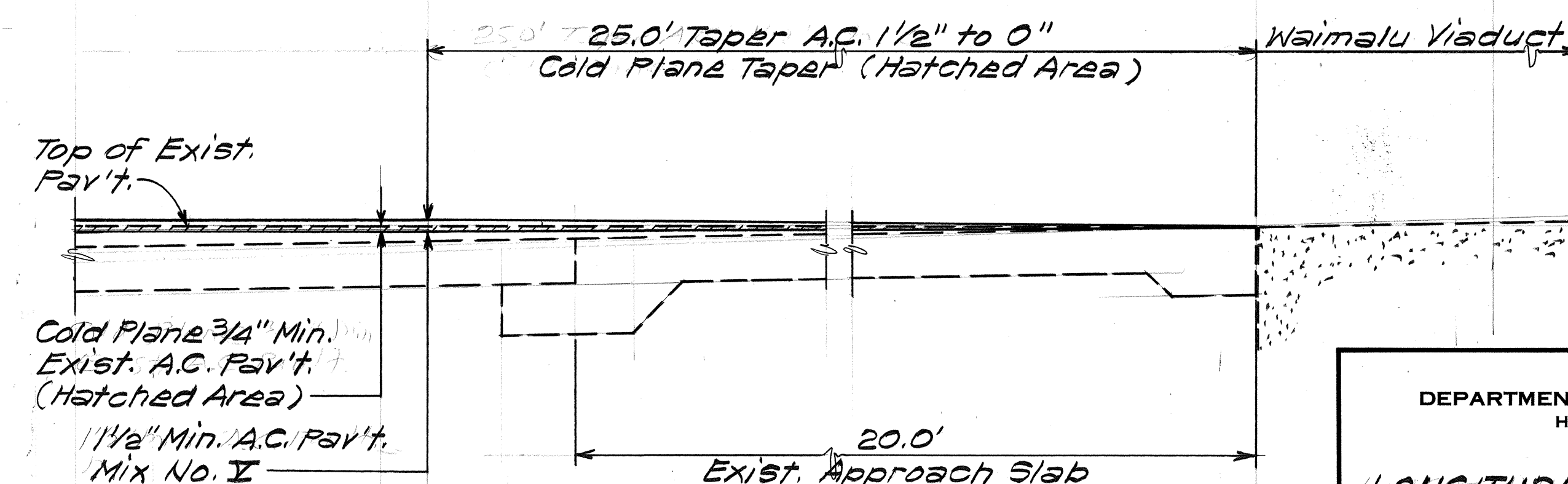
PARTIAL PLAN ~ LONGITUDINAL TAPER

I.B. & O.B. Sta. 110+79± to Sta. 111+04±
 Not to Scale



SECTION C-C

Not to Scale



SECTION D-D

Not to Scale

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

LONGITUDINAL TAPER DETAILS

**INTERSTATE ROUTE H-1
 ADDITIONAL LANES**
 F.A.I. Proj. No. IR-HI-1(193)
 Not to Scale Date: July, 1985

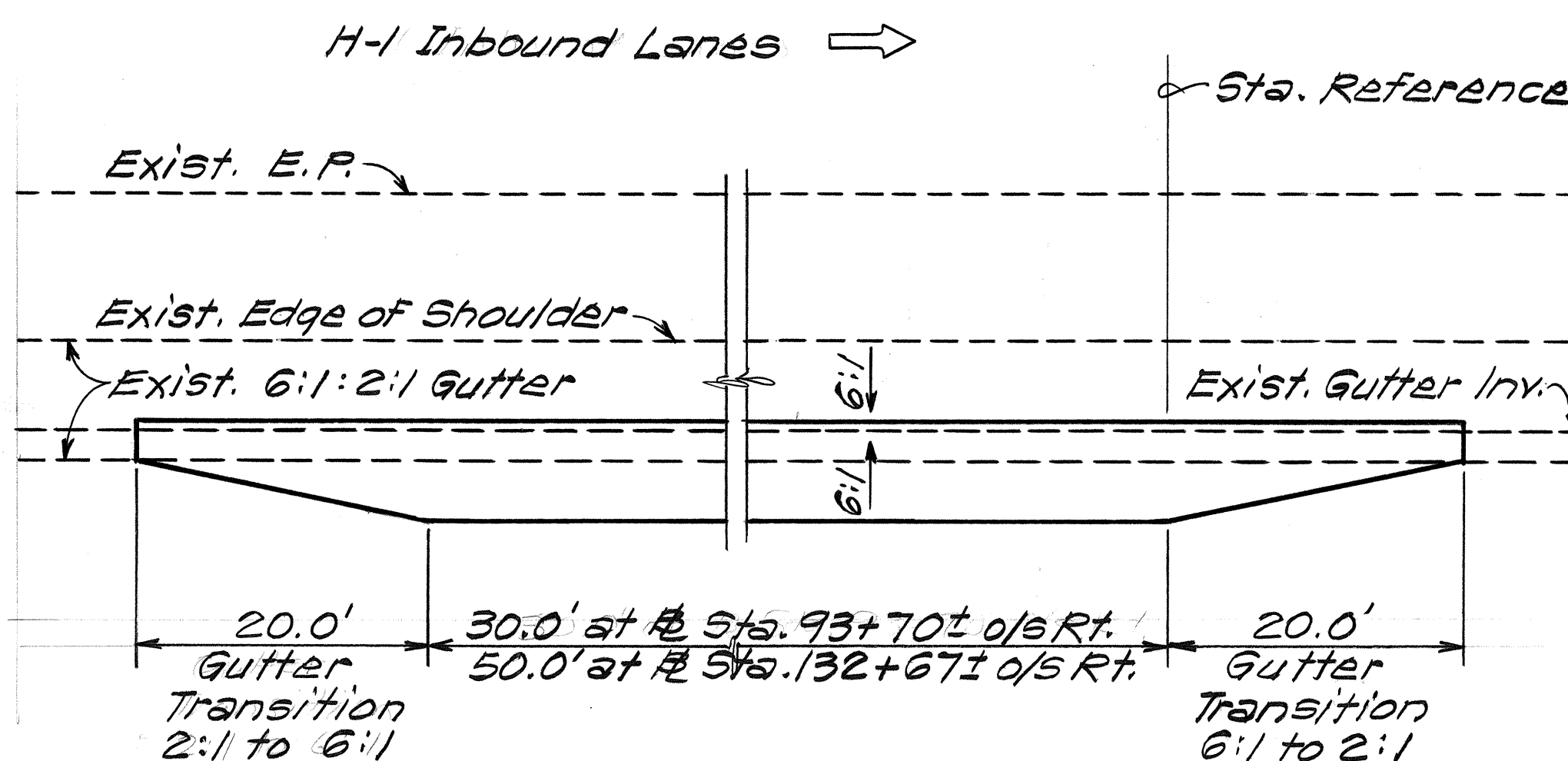
SHEET No. 7 OF 7 SHEETS

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

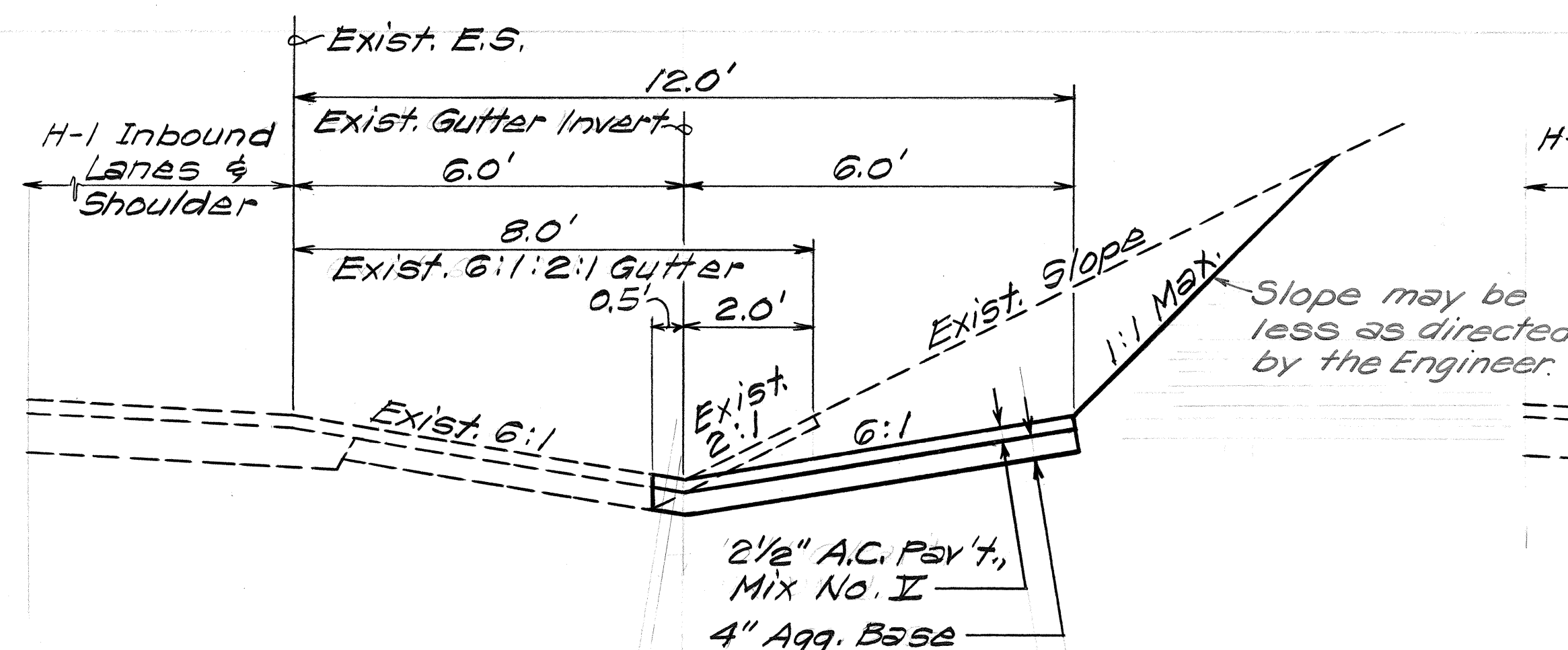
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IR-HI-1 (1993)	1988	C.O.95-1	62

NOTES:

- The limits and locations of the Bituminous Gutter Modifications and Shoulder Modification as shown on the plans are approximate. The exact limits will be determined in the field by the Engineer.
- The new gutter for the Shoulder Modification, @ Sta. 171+25± to @ Sta. 173+25± o/s Rt, shall be paved to drain.
- At the four locations where the Bituminous Gutter Modifications are to be constructed, the Contractor shall install new highway lighting conduit and 2 cables, 18 inches below grade, as directed by the Engineer. This work shall be paid on a lump sum basis, complete in place.
 - 2" PVC Conduit, Schedule 40 - 725 ± L.F
 - #2 Cable - 1,490 ± L.F
- The Contractor shall keep the highway lighting system operational during all hours of darkness.
- The Contractor shall cut and plug a portion of the existing sprinkler system at Bituminous Gutter Modification, @ Sta. 170+63± o/s Rt, as directed by the Engineer. This work shall be paid on a lump sum basis.



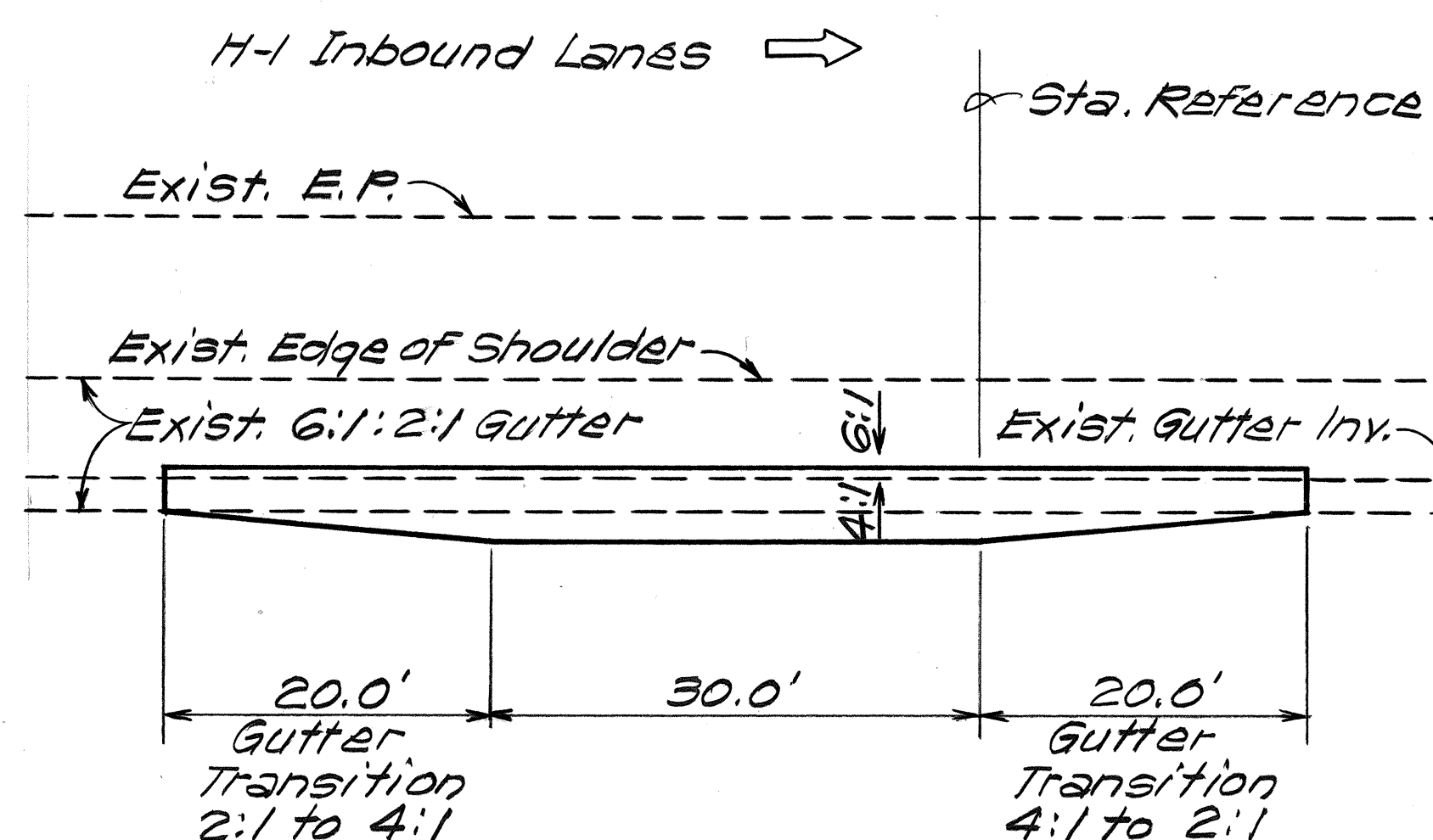
PLAN
Scale: 1"=10'



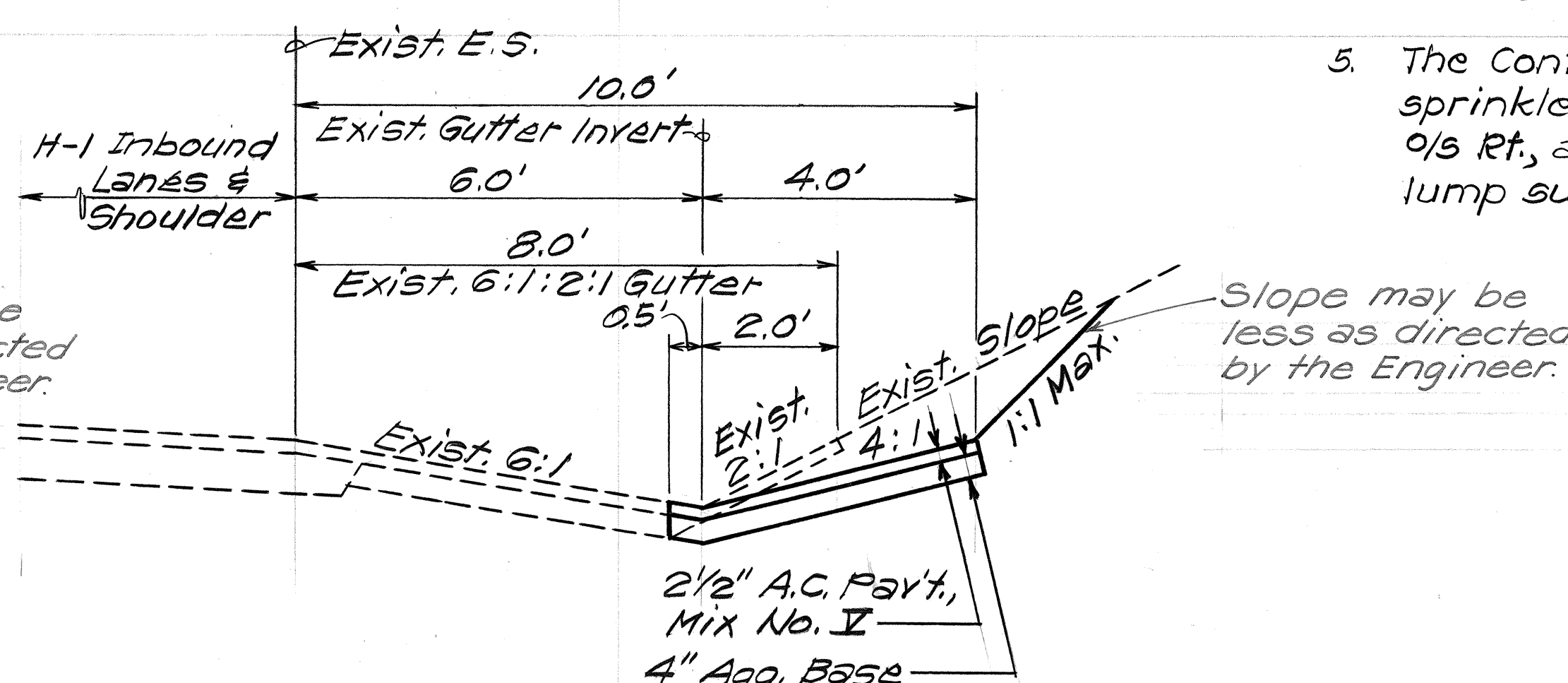
TYPICAL SECTION
Scale: 1/2"=1'-0"

BITUMINOUS GUTTER MODIFICATION

@ STA. 93+70± o/s RT.
@ STA. 132+67± o/s RT.



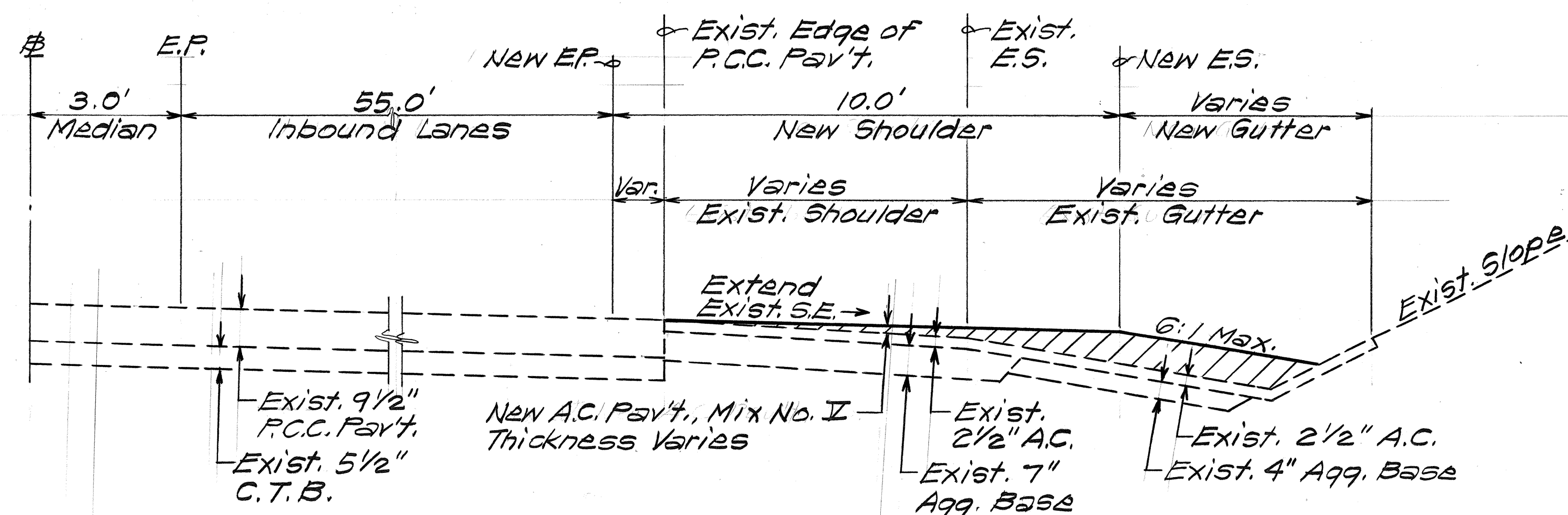
PLAN
Scale: 1"=10'



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

BITUMINOUS GUTTER MODIFICATION

@ STA. 158+52± o/s Rt.
@ STA. 170+63± o/s Rt.



TYPICAL SECTION ~ SHOULDER MODIFICATION

@ STA. 171+25± TO @ STA. 173+25± o/s RT.
Scale: 1/2"=1'-0"

10/5/87	Added Typical Sections and Notes for Inbound Shoulder Lane
DATE	REVISION

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
TYPICAL SECTIONS AND NOTES	
INTERSTATE ROUTE H-1 ADDITIONAL LANES FAI PROJ. NO. IR-HI-1 (1993)	
Scale: As Shown Date: Oct. 1987	
SHEET No.	OF SHEETS

C.O.95-1