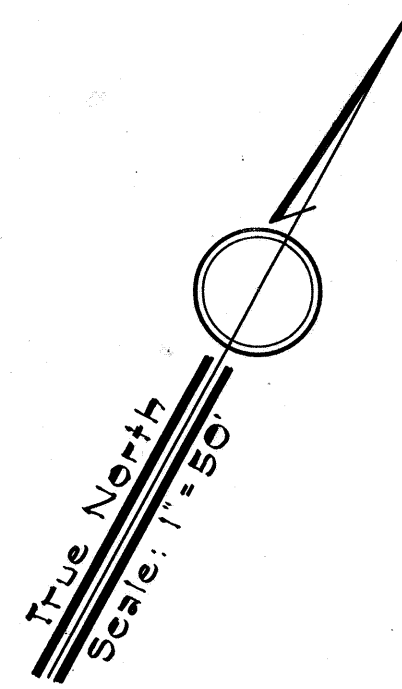


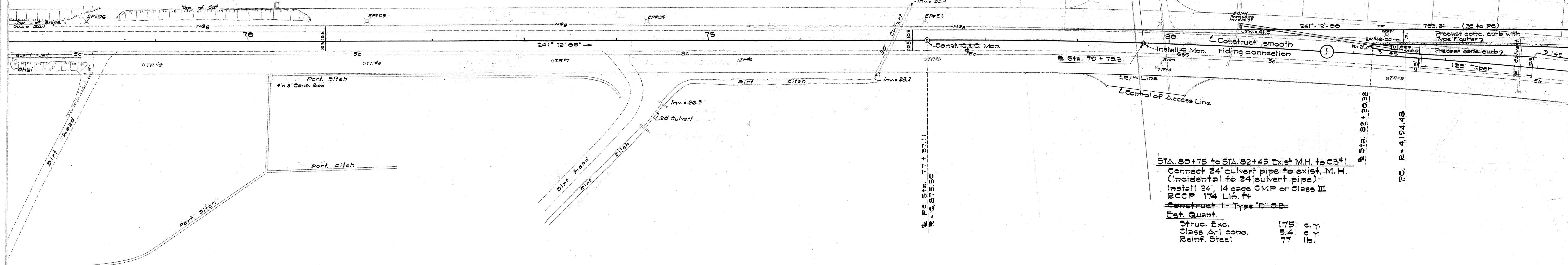
①	
Δ	17' 30' 00"
Δ	8' 45' 00"
Δ	6' 875.50
Δ	1,058.24
Δ	2,021.85
Δ	2,100.00



GENERAL NOTES:

1. Transition from one type curb to another type curb, or from curb to curb and gutter, or from curb and gutter to curb shall be made in a distance of 20 ft.
2. Transition Sections of curbs at Bridges will be paid for as Cast-in-Place concrete curb or Curb and Gutter of the type adjacent to the Transition.
3. Curbs specified as Type 'A' shall be of Standard Type 'A' Curb, but without recesses.
4. Unless otherwise shown, speed change lanes shall be 12 ft. wide and of standard taper.
5. Transition from Bridge curb to Highway curbs shall be made over a distance of 20 ft. at the locations shown on the plans.
6. See sheet 32 for detail of new CRM wall.

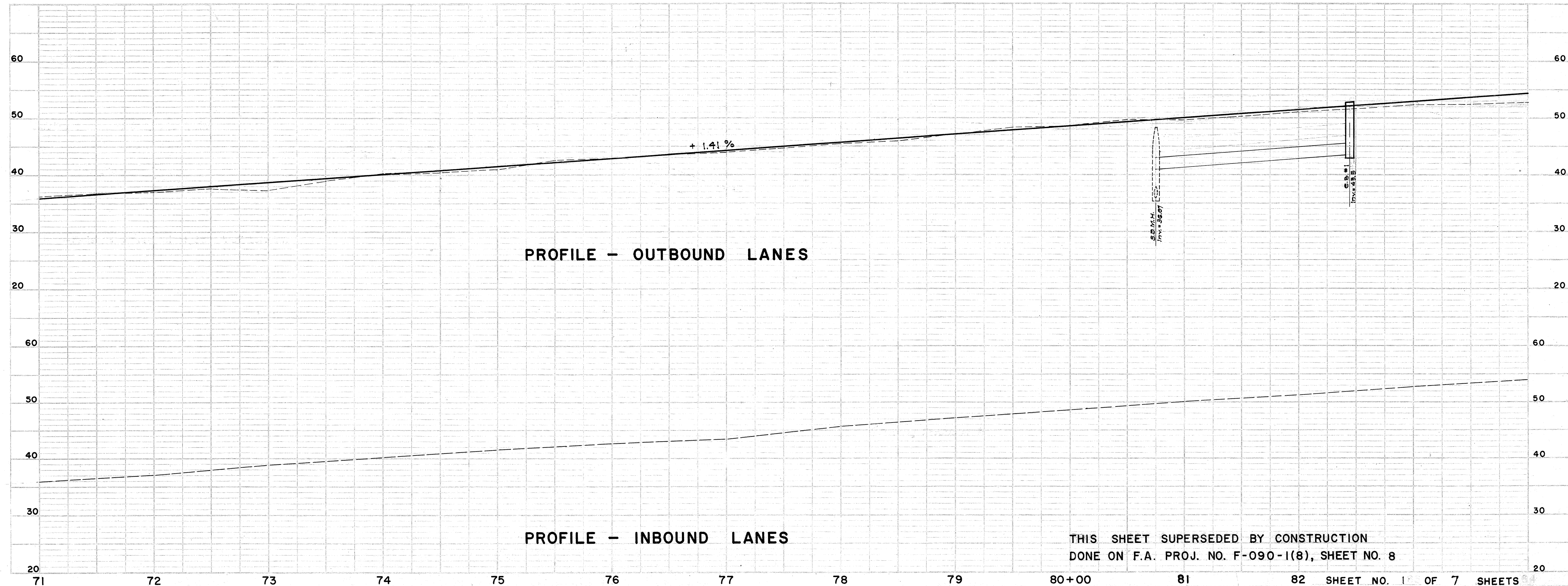
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
100-100	HAW.	F-090-1(7)	1962	4	127



STA. 80+75 to STA. 82+45 Exist. M.H. to CB#1
 Connect 24" culvert pipe to exist. M.H.
 (Incidental to 24" culvert pipe)
 Install 24" 14 gage CMP or Class III
 BCCP 174 Lin. Ft.
 Construct Type D CB
 Est. Quant.
 Struct. Exc. 175 c.Y.
 Class III cons. 54 c.Y.
 Reinf. Steel 77 lb.

POINTS OF ACCESS		
STATIONS	WIDTH OF ACCESS	
± STA.	LEFT	RIGHT
STA. 86+05		75.00
STA. 87+35	07.00	
STA. 88+15		40.00
STA. 89+55	111.58	
STA. 93+60	44.00	
STA. 94+00	20.00	170 ±
STA. 94+55		53.53
STA. 95+85		50.01
STA. 96+10 to 102+50	640.00	
STA. 99+80		37.37
STA. 105+10	24.46	
STA. 106+80 to 137+60		3080.00
STA. 107+80	31.00	
STA. 112+20	40.00	
STA. 113+50	40.00	
STA. 114+50	44.00	
STA. 116+28	20.00	
STA. 116+60	40.00	
STA. 118+20	50.00	
STA. 119+25	40.00	
STA. 121+00	20.00	
STA. 123+80	40.00	
STA. 130+60	60.00	
± STA.		
STA. 137+46	44.00	
STA. 139+60		116.37
STA. 144+15	32.22	
STA. 149+60	60.00	
STA. 149+60		116.46
STA. 154+60	47.71	
STA. 156+20		50.00 *

* Temporary Access



THIS SHEET SUPERSEDED BY CONSTRUCTION
 DONE ON F.A. PROJ. NO. F-090-1(8), SHEET NO. 8

PROFILE - INBOUND LANES

PROFILE - OUTBOUND LANES

CURVE DATA

①	②	③	④
Δ = 17° 30' 00"	Δ = 21° 10' 00"	Δ = 34° 00' 00"	Δ = 45° 00' 00"
Δ/2 = 8° 45' 00"	Δ/2 = 10° 40' 35"	Δ/2 = 17° 00' 00"	Δ/2 = 22° 30' 00"
TA = 6,875.50	TA = 1,156.60	TA = 3,000.00	TA = 5,000.00
T = 1,058.24	T = 33.85	T = 119.62	T = 120.74
CA = 2,901.85	CA = 67.67	CA = 232.05	CA = 241.41
LA = 2,100.00	LA = 67.68	LA = 232.11	LA = 241.44

⑤	⑥	⑦
Δ = 26° 36' 00"	Δ = 10° 58' 00"	Δ = 3° 16' 30"
Δ/2 = 13° 18' 00"	Δ/2 = 5° 29' 00"	Δ/2 = 1° 38' 15"
TA = 3,500.00	TA = 4,194.48	TA = 2,394.45
T = 63.61	T = 401.42	T = 194.23
CA = 125.16	CA = 792.19	CA = 387.10
LA = 125.84	LA = 800.40	LA = 387.61

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
SAVANA	HAW.	F-090-1(7)	1962	5	127

STA. 22+25 CB*2 to MH#1
Install 24" 14 Gage CMP or class III RCCP, 8 Lin. Ft.
Construct 1 Type 'D' C.B.
Est. Quant.
Struc. Exc. 20 c.y.
Class 'A-1' conc. 43 c.y.
Reinf. Steel 77 c.y.

STA. 22+25 to STA. 27+25 MH#1 to CD#1
Install 24" 14 Gage CMP or class III RCCP, 500 Lin. Ft.
Construct 1 Type 'D' SDMH, 4 Lin. Ft.
Est. Quant.
Struc. Exc. 250 c.y.
Class 'B-1' conc. 07 c.y.
Reinf. Steel 30 lb.

STA. 27+25 CD#1 to CB*3
Install 24" 14 Gage CMP or class III RCCP, 6 Lin. Ft.
Construct 1 Grated Conc. Drop Intake. See sht. for Details
Construct 1 Type 'D' C.B.
Est. Quant.
Struc. Exc. 22 c.y.
Class 'A-1' conc. 06 c.y.
Reinf. Steel 77 lb.

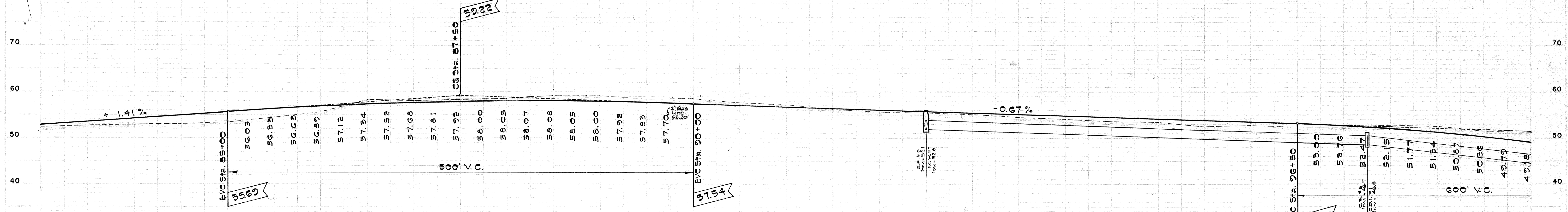
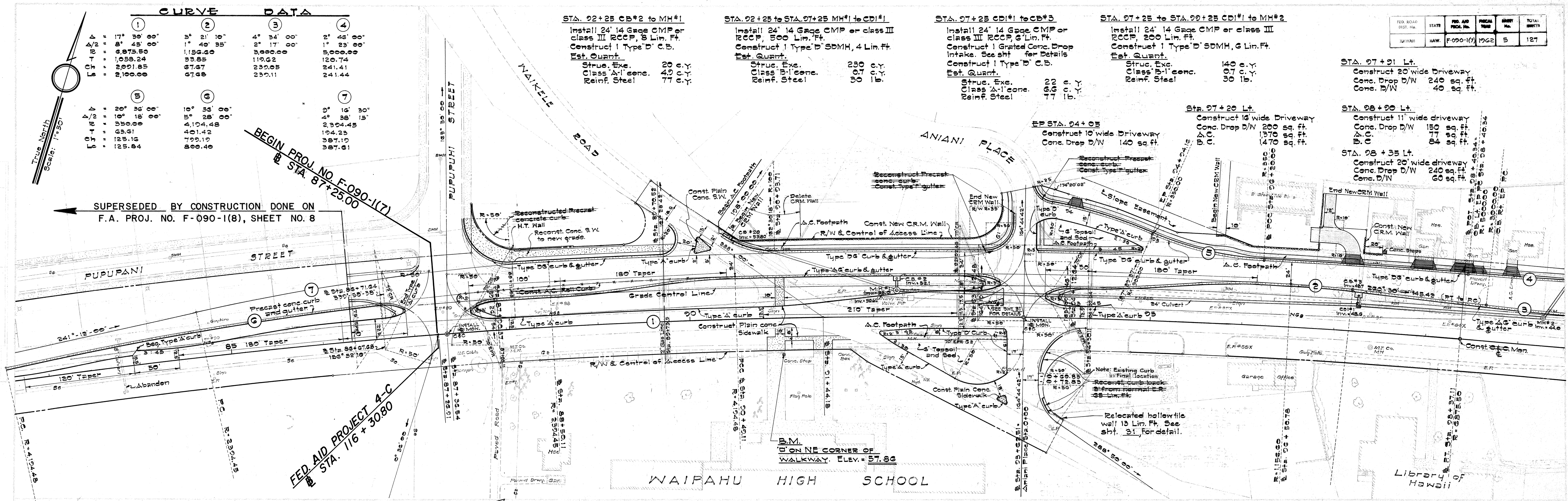
STA. 27+25 to STA. 29+25 CD#1 to MH#2
Install 24" 14 Gage CMP or class III RCCP, 200 Lin. Ft.
Construct 1 Type 'D' SDMH, 6 Lin. Ft.
Est. Quant.
Struc. Exc. 140 c.y.
Class 'B-1' conc. 07 c.y.
Reinf. Steel 30 lb.

STA. 27+21 Lt.
Construct 20' wide Driveway
Conc. Drop D/W 240 sq. ft.
Conc. D/W 40 sq. ft.

Sta. 27+20 Lt.
Construct 10' wide Driveway
Conc. Drop D/W 200 sq. ft.
A.C. 1370 sq. ft.
D.C. 1470 sq. ft.

STA. 28+20 Lt.
Construct 11' wide driveway
Conc. Drop D/W 150 sq. ft.
A.C. 17 sq. ft.
B.C. 84 sq. ft.

STA. 28+35 Lt.
Construct 20' wide driveway
Conc. Drop D/W 240 sq. ft.
Conc. D/W 60 sq. ft.



STA. 99+25 to STA. 99+50
 MH#2 to CB#4
 Install 24" 14 Gage CMP or
 Cl. III RCP 48 Lin. Ft.
 Const. 1 Type D6 C.B.
 Est. Quant.
 Struct. Exc. 36 c.y. 319
 C.B. conc. 48 c.y. 0.7
 Reinf. Steel 27 lb. 28.1

STA. 99+50 to STA. 102+50
 CB#4 to CB#5
 Install 24" 14 Gage CMP or
 Cl. III RCP 205 Lin. Ft.
 (Pipe to be parallel with
 Lt. OB. EP)
 Const. 1 Type D6 C.B.
 Est. Quant.
 Struct. Exc. 180 c.y.
 Cl. A-I conc. 40 c.y.
 Reinf. Steel 27 lb.

STA. 102+50 CB#5 to
 DRAINAGE CANAL
 Install 24" 14 Gage CMP or
 Cl. III RCP 26 Lin. Ft.
 Est. Quant.
 Struct. Exc. 10 c.y.

STA. 106+25 to STA. 107+40 Lt.
 STA. 108+00 to STA. 110+50 Lt.
 Excavate drainage
 ditch. See sht. 33
 for Typical Section.
 Est. Quant.
 Ditch Exc. 30 c.y.
 Construct 72' Standard
 chain link fence. 35 Lin. Ft.
 (See sht. 103 for exact
 location.)

STA. 107+40 CD1#2 to CB#6
 Install 24" 14 Gage CMP or Cl. III
 RCP 62 Lin. Ft.
 Construct 1 Grated concrete
 Drop Intake. See sht. 33
 for Details.
 Est. Quant.
 Struct. Exc. 40 c.y.
 Cl. B-I conc. 1.7 c.y.

STA. 107+50 to STA. 107+45 CB#6 to CB#7
 Install 24" 14 Gage CMP or Cl. III
 RCP 195 Lin. Ft.
 Construct 1 Type C C.B.
 Est. Quant.
 Struct. Exc. 165 c.y.
 Cl. A-I conc. 60 c.y.
 Reinf. Steel 108 lb.

STA. 107+45 CB#7 to MH#3
 Install 24" 14 Gage CMP or Cl. III
 RCP 46 Lin. Ft.
 Construct 1 Type D C.B.
 Est. Quant.
 Struct. Exc. 48 c.y.
 Cl. A-I conc. 54 c.y.
 Reinf. Steel 77 c.y.

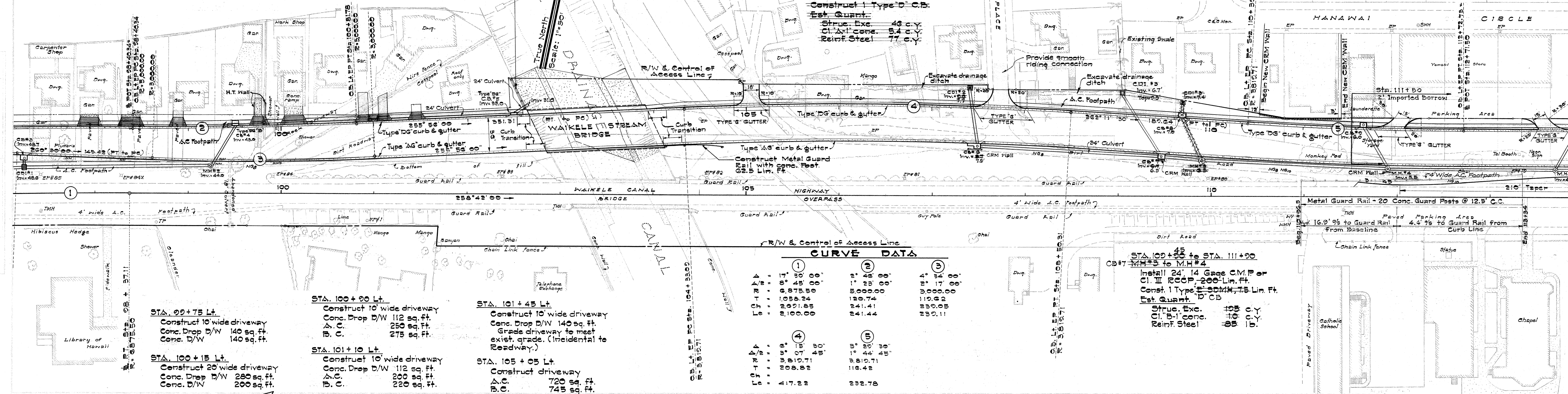
STA. 107+50 CD1#3 to CB#8#7
 Install 24" 14 Gage CMP or
 Cl. III RCP 10 Lin. Ft.
 Construct 1 Grated
 concrete Drop
 Intake. See sht. 33
 for Details.
 Est. Quant.
 Struct. Exc. 10 c.y.
 Cl. B-I conc. 1.7 c.y.

STA. 107+50 to STA. 107+20
 CB#8 to MH#5
 Install 24" 14 Gage CMP or
 Cl. III RCP 50 Lin. Ft.
 Construct 1 Type D C.B.
 Est. Quant.
 Struct. Exc. 48 c.y.
 Cl. A-I conc. 54 c.y.
 Reinf. Steel 77 lb.

STA. 111+55 to 111+20
 CB#9 to M.H.#4
 Install 24" 14 Gage CMP or
 Cl. III RCP 50 Lin. Ft.
 Construct 1 Type D C.B.
 Est. Quant.
 Struct. Exc. 48 c.y.
 Cl. A-I conc. 54 c.y.
 Reinf. Steel 77 lb.

STA. 111+00 to STA. 115+70 MH#4 to MH#5
 Install 24" 14 Gage CMP or Cl. III
 RCP 176 Lin. Ft.
 Construct 1 Type E SDMH, 8 Lin. Ft.
 Est. Quant.
 Struct. Exc. 172 c.y.
 Cl. B-I conc. 12 c.y.
 Reinf. Steel 92 lb.

FEED ROAD	STATE	FEED. AID	FEED. PROJ. NO.	FEED. YEAR	SHEET	TOTAL
RAWAII	HAWAII	F020101	1962	6	127	



R/W & Control of Access Line

CURVE DATA

	(1)	(2)	(3)	(4)	(5)
Δ	17° 30' 00"	3° 48' 00"	4° 34' 00"	3° 20' 30"	3° 20' 30"
Δ/2	8° 45' 00"	1° 54' 00"	2° 17' 00"	1° 40' 15"	1° 40' 15"
R	6,875.50	5,000.00	3,000.00	3,810.71	3,810.71
T	1,059.24	120.74	110.92	3,810.71	3,810.71
Ch	2,091.85	241.41	239.05	417.22	232.78
Lc	2,100.00	241.44	239.11		

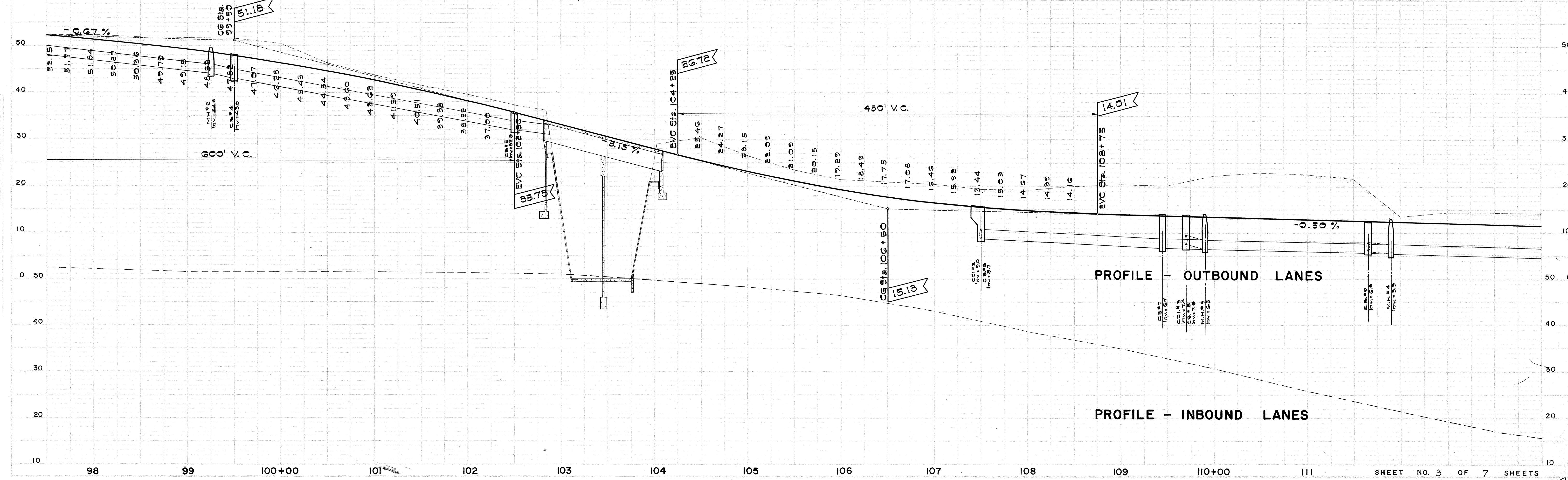
STA. 99+75 Lt.
 Construct 10' wide driveway
 Conc. Drop D/W 112 sq. ft.
 A.C. 250 sq. ft.
 B.C. 275 sq. ft.

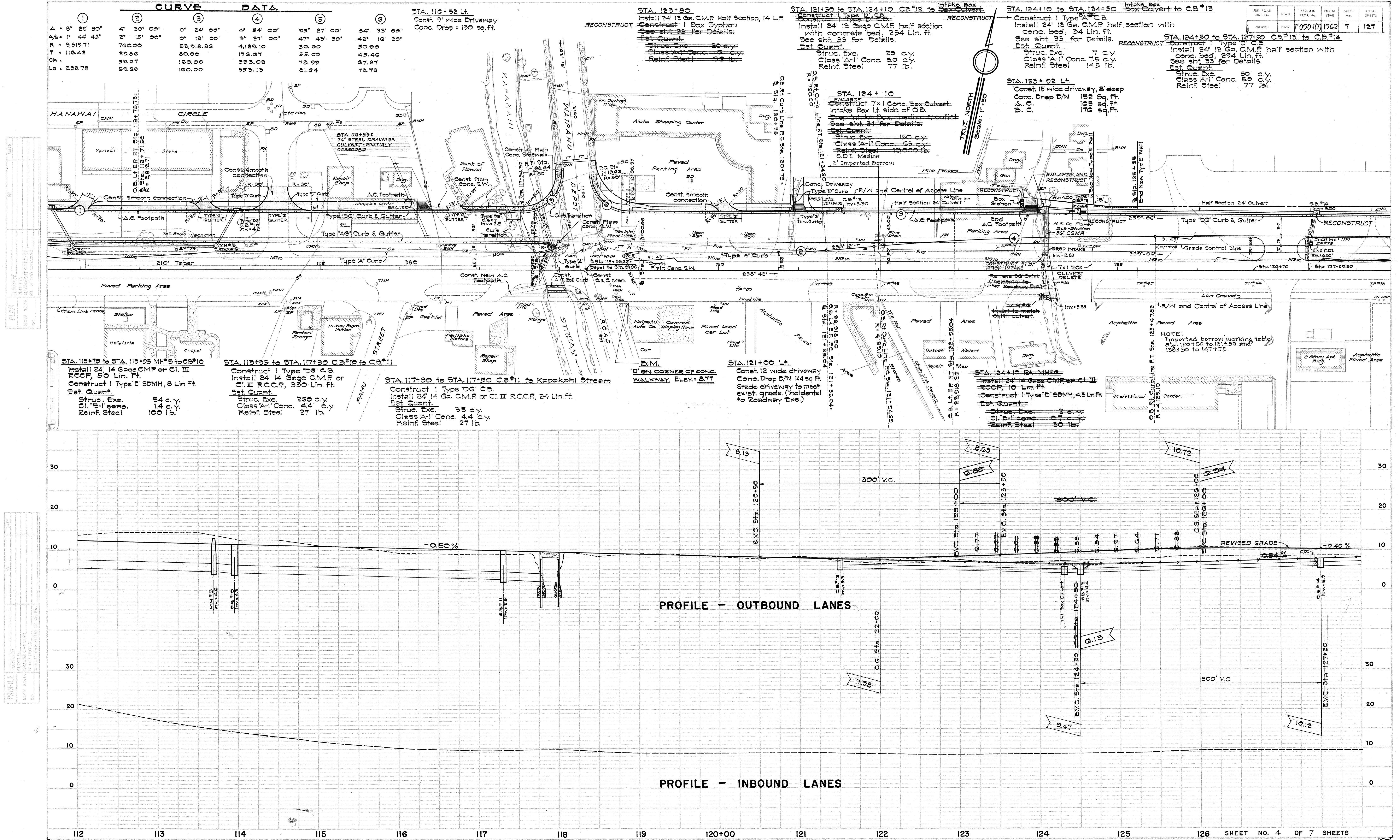
STA. 100+00 Lt.
 Construct 10' wide driveway
 Conc. Drop D/W 112 sq. ft.
 A.C. 250 sq. ft.
 B.C. 275 sq. ft.

STA. 101+10 Lt.
 Construct 10' wide driveway
 Conc. Drop D/W 112 sq. ft.
 A.C. 200 sq. ft.
 B.C. 220 sq. ft.

STA. 101+45 Lt.
 Construct 10' wide driveway
 Conc. Drop D/W 140 sq. ft.
 Grade driveway to meet
 exist. grade. (Incidental to
 Roadway.)

STA. 105+05 Lt.
 Construct driveway
 A.C. 720 sq. ft.
 B.C. 745 sq. ft.





FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F070-107	1962	8	127

①	②
Δ = 30° 53' 00"	28° 20' 00"
Δ/2 = 15° 26' 30"	14° 10' 00"
R = 2,864.70	2,804.63
T = 792.68	708.43
CH = 1,327.95	1,373.81
LC = 1,544.67	1,387.91

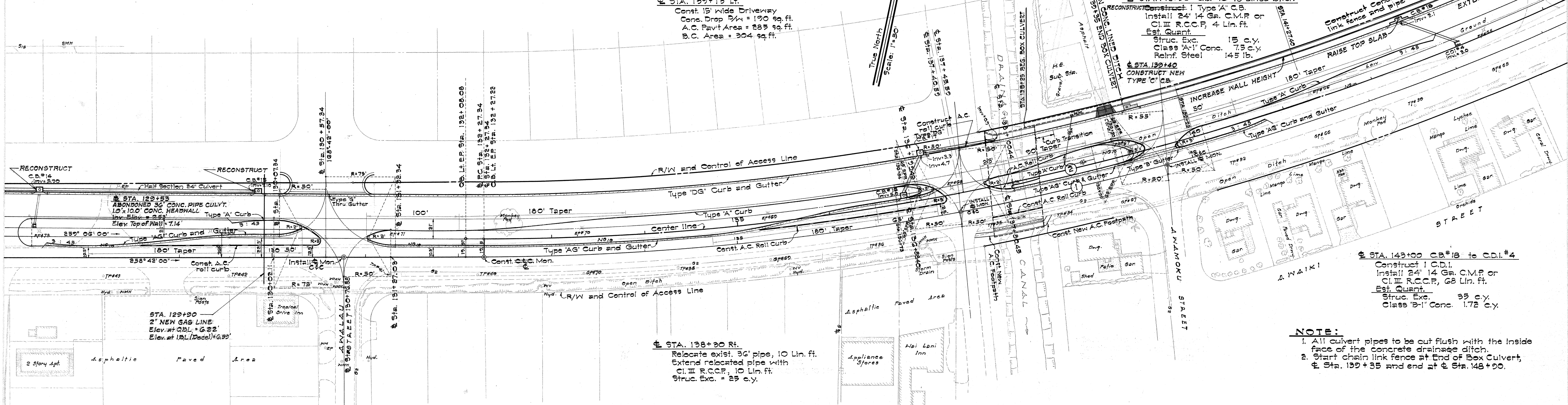
± STA. 127+50 to ± STA. 129+85 CB#14 to CB#15
Construct 1 Type 'D' C.B.
Install 24" 12 Ga. C.M.P. half section with
conc. bed, 232 Lin. ft.
See Sht. 33 for Details
Est. Quant.
Struc. Exc. 20 c.y.
Class 'A-1' Conc. 5.0 c.y.
Reinf. Steel 77 lb.

± STA. 126+85 CB#16 to CB#17
Construct 1 Type 'D' C.B.
Install 24" 14 Ga. C.M.P. or
Cl. III R.C.C.P., 46 Lin. ft.
Est. Quant.
Struc. Exc. 23 c.y.
Class 'A-1' Conc. 4.9 c.y.
Reinf. Steel 77 lb.

± STA. 137+10 to ± STA. 139+90 CB#17 to Drainage Canal
Construct 1 Type 'D' C.B.
Install 24" 14 Ga. C.M.P. or Cl. III R.C.C.P., 80 Lin. ft.
Est. Quant.
Struc. Exc. 45 c.y.
Class 'A-1' Conc. 5 c.y.
Reinf. Steel 77 lb.

± STA. 138+25 to ± STA. 139+35 Lt.
Construct 8x4 Box Culvert
See Sht. 32 for Details
Est. Quant.
Struc. Exc. 243 c.y.
Class 'A-1' Conc. 64 c.y.
Reinf. Steel 3,300 lb.

± STA. 139+35 to ± STA. 148+90 Lt.
Construct Conc. Lined Ditch
See Sht. 32 for Details
Est. Quant.
Struc. Exc. 1,367 c.y.
Class 'A-1' Conc. 330 c.y.
Reinf. Steel 33,000 lb.



- NOTE:**
- All culvert pipes to be cut flush with the inside face of the concrete drainage ditch.
 - Start chain link fence at end of Box Culvert, ± Sta. 139+35 and end at ± Sta. 148+90.

