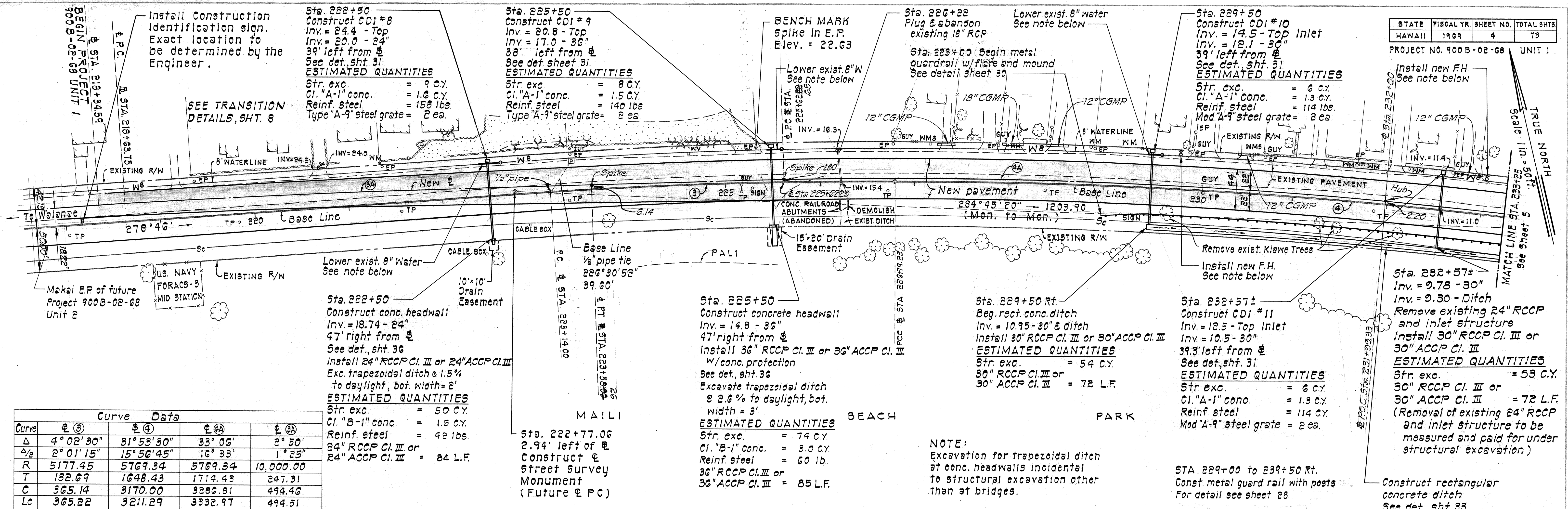


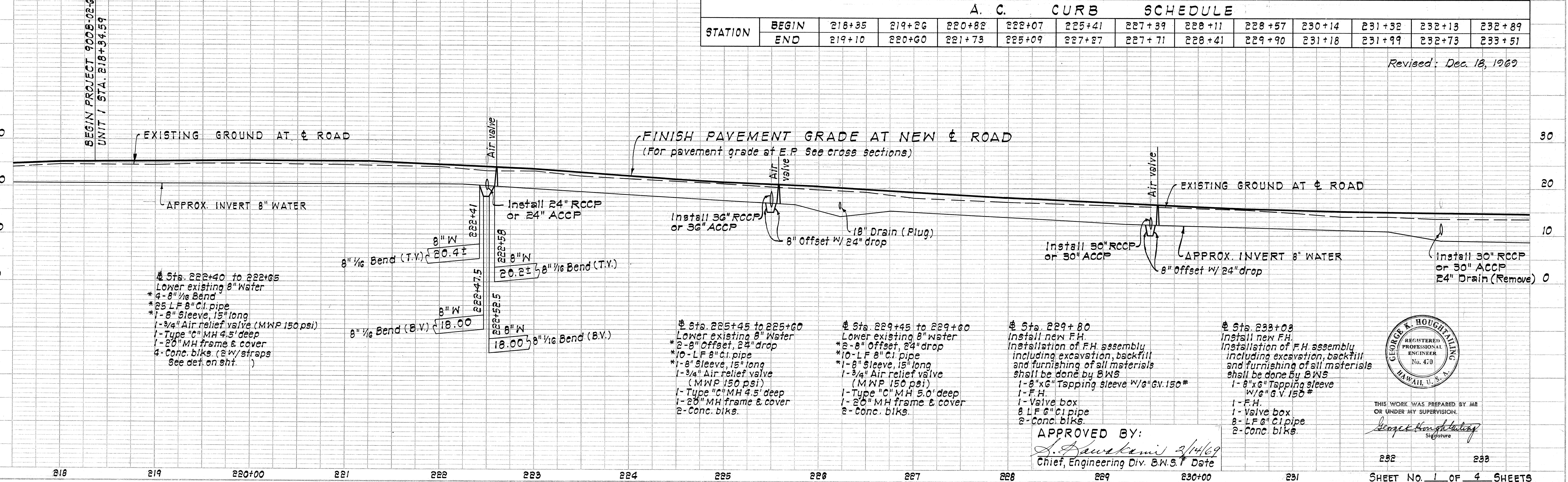
PLAN
SURVEYED BY DATE
PLOTTED BY DATE
NOTE BOOK NO. 1
RT. OF WAY CHECKED BY DATE

PROFILE
SURVEYED BY DATE
PLOTTED BY DATE
NOTE BOOK NO. 1
STRUCTURE (NOTATION) DATE

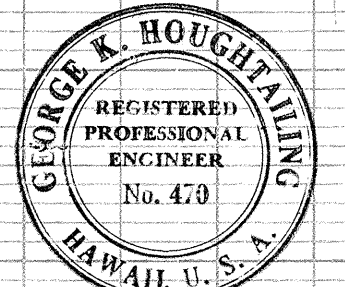


Curve Data				
Curve	③	④	⑤A	⑥A
Δ	4° 02' 30"	31° 53' 30"	33° 06'	2° 50'
Δ/2	2° 01' 15"	15° 56' 45"	16° 33'	1° 25'
R	5177.45	5769.34	5769.34	10,000.00
T	182.69	1648.43	1714.43	247.31
C	365.14	3170.00	3286.81	494.46
Lc	365.22	3211.29	3332.97	494.51

A. C. CURB SCHEDULE													
STATION	BEGIN	218+35	219+26	220+82	222+07	225+41	227+39	228+11	228+57	230+14	231+32	232+13	232+89
	END	219+10	220+00	221+73	225+09	227+27	227+71	228+41	229+90	231+18	231+99	232+73	233+51



APPROVED BY:
S. Lawrence 2/14/69
Chief, Engineering Div. B.N.S. Date



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George K. Houghaling
Signature

PLAN
SURVEYED
ALLOTTED
NOTE BOOK
NO.

Sta. 234+24
Remove existing 24"
culvert and headwalls
Construct CD1 #12
Top = 12.0 (Inlet)
Inv. = 9.44 - 30" (39.4' Left
from #) See detail Sht. 31
Install 30" RCCP Cl. III or
30" ACCP Cl. III
ESTIMATED QUANTITIES
Str. exc. = 70 C.Y.
Cl. "A-1" conc. = 1.9 C.Y.
Reinf. steel = 135 lb.
Mod. "A-9" steel grate = 2 ea.
30" RCCP Cl. III or = 72 LF
30" ACCP Cl. III

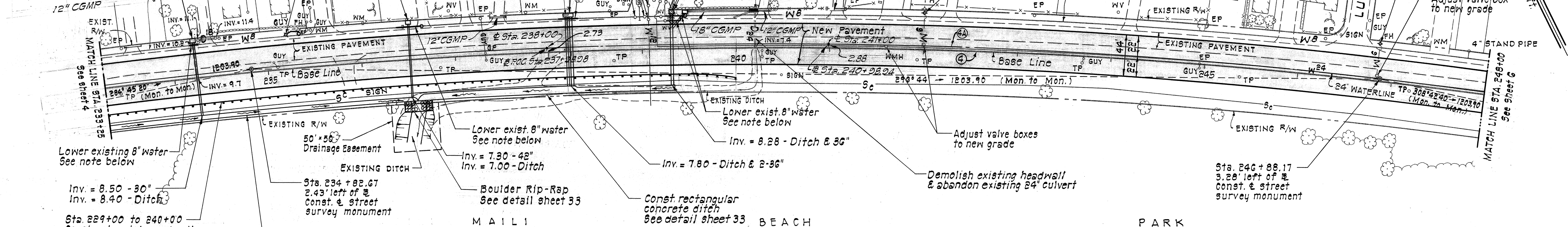
Sta. 236+50
Construct CD1 #13
Top = 11.3 (Inlet)
Inv. = 7.93 - 42"
39.5' left from #
See detail sht. 31
Install 42" RCCP Cl. III
ESTIMATED QUANTITIES
Str. exc. = 105 C.Y.
Cl. "A-1" conc. = 1.9 C.Y.
Reinf. steel = 135 lb.
Mod. "A-9" steel grate = 2 ea.
42" RCCP Cl. III = 82 LF

Sta. 238+20
Remove existing 24"
culvert and headwalls
Construct CD1 #14
Top = 11.50 (Inlet)
Inv. = 8.50 - 36" (39.7' Left
from #) See detail Sheet 31
Install 2-36" RCCP Cl. IV or
2-36" ACCP Cl. IV
ESTIMATED QUANTITIES
Str. exc. = 148 C.Y.
Cl. "A-1" conc. = 1.7 C.Y.
Reinf. steel = 158 lb.
Mod. "A-9" st. fr. & grate = 4 ea.
36" RCCP Cl. IV or = 144 LF
36" ACCP Cl. IV

Sta. 239+32
Construct CD1 #15
Top = 12.85
Inv. = 9.00 - 36" (39.8' Left
from #) See detail Sheet 31
Install 36" RCCP Cl. III or
36" ACCP Cl. III w/ conc.
protection - See det. sht. 36
ESTIMATED QUANTITIES
Str. Exc. = 57 C.Y.
Cl. "A-1" conc. = 1.4 C.Y.
Reinf. steel = 128 lb.
Type "A-9" steel grate = 2 ea.
36" RCCP Cl. III or = 71 LF
36" ACCP Cl. III
Cl. "B-1" Conc. = 23 C.Y.

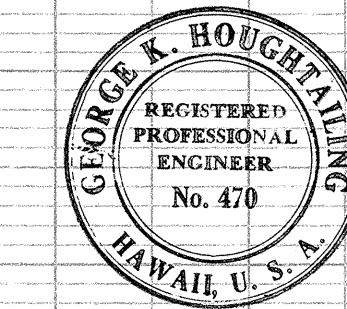
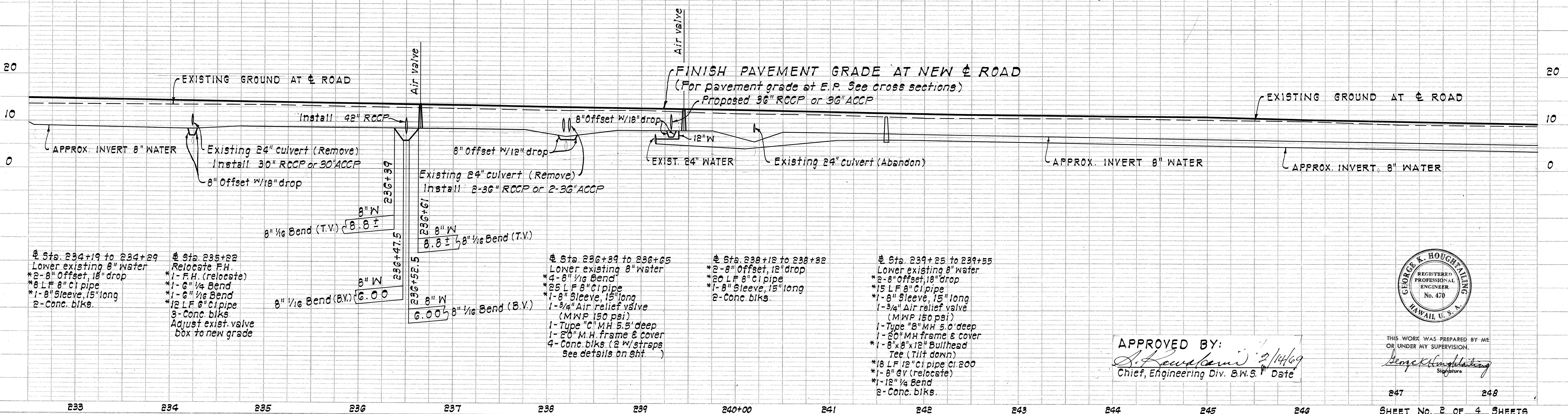
STATE	FISCAL YR.	SHEET NO.	TOTAL SHTS.
HAWAII	1969	5	73

PROJECT NO. 900 B-02-68 UNIT 1



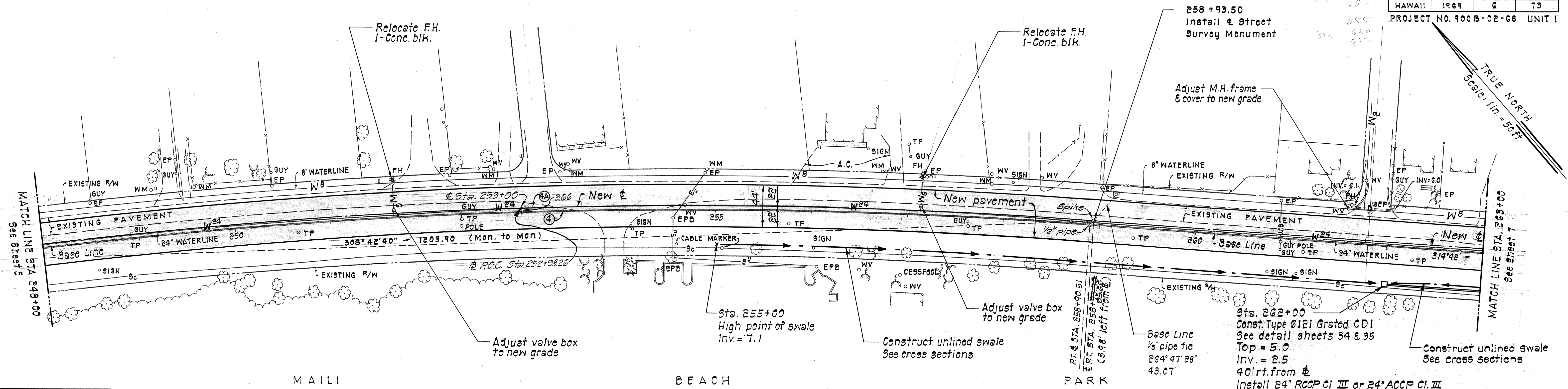
Curve	Δ	Data
Δ	31° 53' 30"	33° 06'
Δ/2	15° 56' 45"	16° 33'
R	5769.34	5769.34
T	1648.43	1714.43
C	3170.00	3286.81
Lc	3211.29	3332.97

A. C. CURB SCHEDULE																		
STATION	BEGIN	232+89	233+67	234+44	235+72	236+74	237+20	237+56	239+29	240+35	241+16	241+81	242+37	244+27	245+28	245+94	246+74	247+58
	END	233+51	234+30	235+54	236+60	237+08	237+40	238+88	240+21	241+02	241+55	242+21	244+11	245+12	245+74	246+35	247+34	249+30



APPROVED BY:
S. K. Houghtaling
Chief, Engineering Div. B.W.S. Date 2/14/69

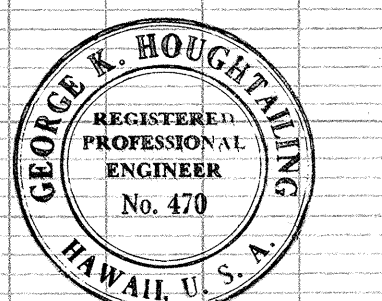
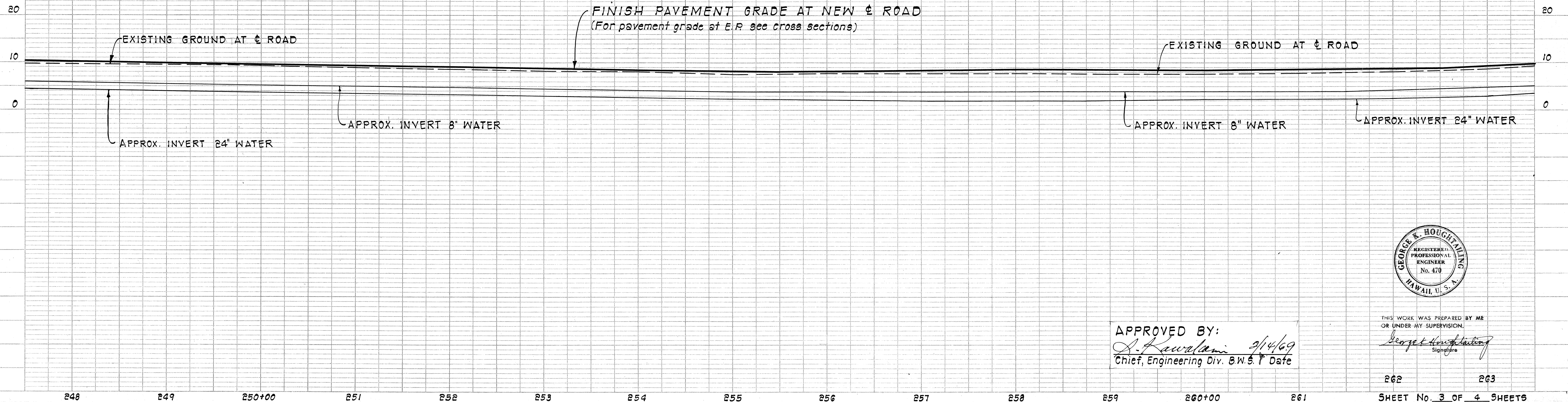
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Signature



Curve Data		
Curve	Δ (°)	Δ (°)
Δ	31°53'30"	33°06'
Δ/2	15°56'45"	16°33'
R	5769.34	5769.34
T	1648.43	1714.43
C	3170.00	3286.81
Lc	3211.29	3332.97

Sta. 262+00
Const. Type G121 Grated CD1
See detail sheets 34 & 35
Top = 5.0
Inv. = 2.5
40' rt. from Δ
Install 24" RCCP Cl. III or 24" ACCP Cl. III
ESTIMATED QUANTITIES
Str. Exc. = 210 C.Y.
Cl. "A-1" conc. = 1.4 C.Y.
Reinf. steel = 99 lb.
Type G121 steel frame and grate = 1 ea.
24" RCCP Cl. III or 24" ACCP Cl. III = 250 L.F.

A. C. CURB SCHEDULE										
STATION	BEGIN	END	247+58	249+01	252+14	252+89	253+38	256+96	258+38	259+00
			249+30	251+86	252+73	253+10	256+94	258+22	258+74	261+03
										262+92



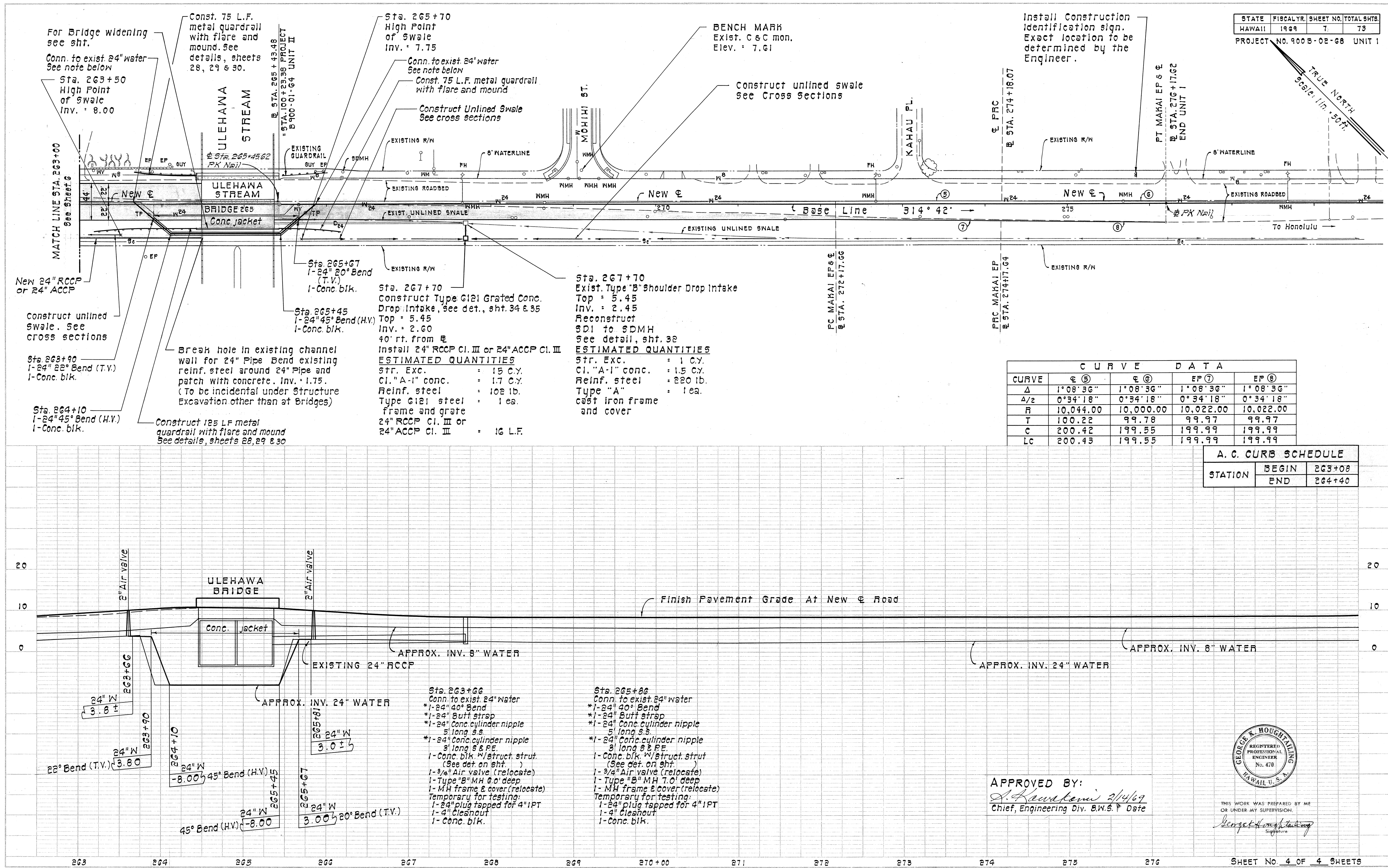
APPROVED BY:
S. Kawahara 2/14/69
Chief, Engineering Div. B.W.S. Date

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George K. Houghtaling
Signature

PLAN
NOTED
FLIGHT
ALIGNED
CHECKED
NO.

PROFILE
NOTED
GRADES
CHECKED
NO.

11-5



STATE	FISCAL YR.	SHEET NO.	TOTAL SHTS.
HAWAII	1969	7	79

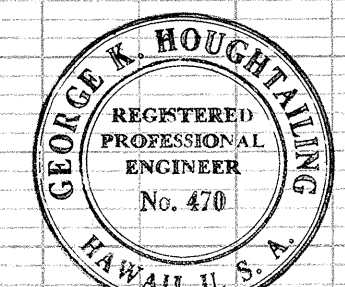
PROJECT NO. 900 B-02-68 UNIT 1

Install Construction Identification sign. Exact location to be determined by the Engineer.

CURVE DATA				
CURVE	PC	PT	PI	EA
Δ	1°08'36"	1°08'36"	1°08'36"	1°08'36"
A/2	0°34'18"	0°34'18"	0°34'18"	0°34'18"
R	10,044.00	10,000.00	10,022.00	10,022.00
T	100.22	99.78	99.97	99.97
C	200.42	199.55	199.99	199.99
LC	200.43	199.55	199.99	199.99

A.C. CURB SCHEDULE		
STATION	BEGIN	END
	263+00	264+40

APPROVED BY:
S. Kawakami 2/14/69
Chief, Engineering Div. B.W.S. Date



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George K. Houghtaling
Signature