

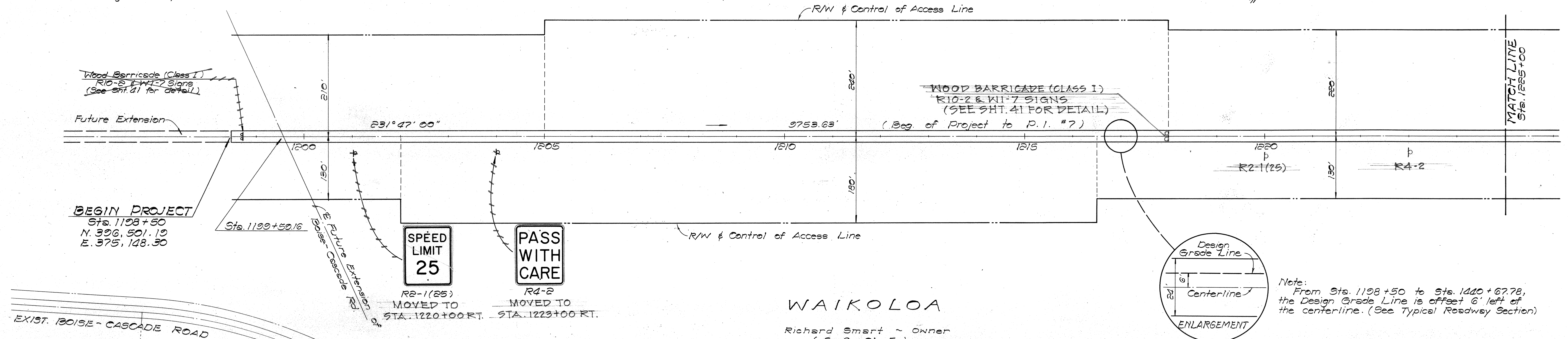
GENERAL NOTES

1. Azimuths and coordinates are referred to the Hawaii State Plane Coordinate System Zone.
2. Bench Marks are referred to Mean Sea Level Datum.
3. The finished grade along the design grade line is 0.646 feet (7.75 inches) above the 4" Imported Borrow Coral Material. (See detail, Sht. 2)
4. The coordinates for the existing street monuments "N" and "O" and the azimuths between these street monuments are based upon information received from a boundary survey of this area conducted by R.M. Towill Corporation in 1968. This boundary survey was performed to a minimum accuracy of one part in 5000 or better and based on Triangulation Station "Puako Old" (Design note only - see sheet 14).
5. Provide Class "A" finish in recovery zone.
6. For sign placement behind guardrails, see sheet no. DT-100, Misc. Sign Details, of the Standard Details. For signs not located behind guardrail, clearance between the edge of pavement and the nearest sign post shall be thirty (30) feet or as stated by the Engineer.
7. Sheets 18 through 28 are to be used to determine grading limits only.
8. Provide CRM inlet and outlet aprons for drainage structures 17B to 20F, inclusive.
9. Wherever 36" CMP culverts are specified on the plans, the contractor shall have the option of furnishing and installing a 24" x 1/2" CMP or 6' x 8' Structural Plate Pipe Culvert (Refer to sheet 34 for the culvert options).
10. At all culvert locations, no ash overburden or coral borrow shall be permitted as embankment material up to the Storm Water Elevation (S.W.E.) as shown on the plans. Refer to Section 206 of the Standard Specifications for culvert backfill.

STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	128C-0171	1971	4	62

TRUE NORTH
Scale: 1" = 100'

PLAN	DATE	BY	NO.
SURVEYED			
PLOTTED			
ALIGNED CHECKED			
BY OF WIT CHECKED			

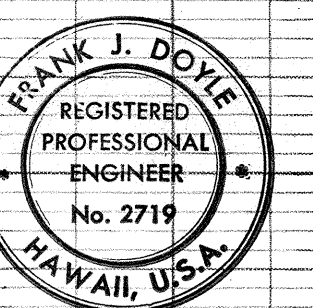
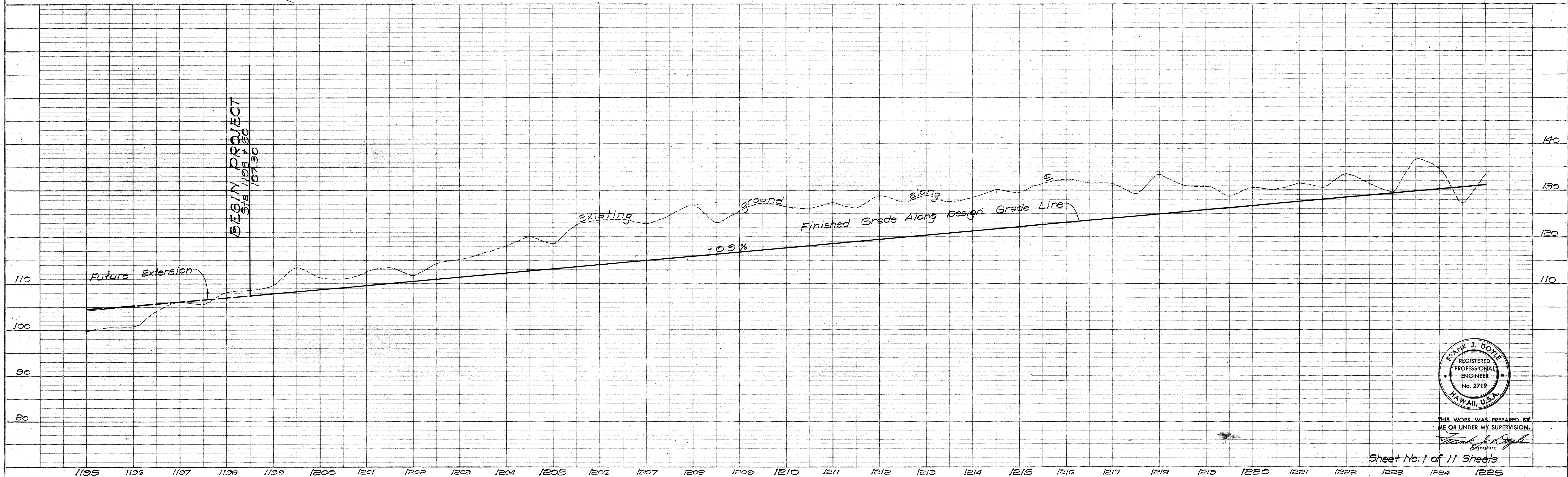


Note: From Sta. 1198+50 to Sta. 1240+67.78, the Design Grade Line is offset 6' left of the centerline. (See Typical Roadway Section)

WAIKOLOA

Richard Smart - Owner
(6-8-01-5)

PROFILE	DATE	BY	NO.
SURVEYED			
PLOTTED			
ALIGNED CHECKED			
BY OF WIT CHECKED			

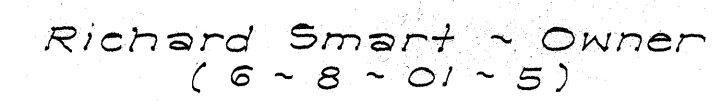


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Signature

Sheet No. 1 of 11 Sheets

GUARD RAIL SCHEDULE									
Sta. Limits	Side	Length (L.F.)	Terminal Flare (Type)		Sta. Limits	Side	Length (L.F.)	Terminal Flare (Type)	
			Approach	Tail				Approach	Tail
1253+00 - 1257+75	Lt.	475	E	B	1290+25 - 1295+00	Rt.	475	B	E
1290+00 - 1296+50	Lt.	650	E	B	1377+50 - 1382+00	Rt.	450	B	E
1334+00 - 1337+50	Lt.	350	E	C	1412+50 - 1417+00	Rt.	450	B	E
1377+00 - 1384+75	Lt.	775	E	B	1425+75 - 1428+50	Rt.	275	B	E
1412+50 - 1417+50	Lt.	500	E	B	1456+25 - 1463+25	Rt.	700	B	E
1425+00 - 1430+00	Lt.	500	E	C	1500+50 - 1502+50	Rt.	200	B	E
1453+25 - 1463+00	Lt.	975	E	C	1514+25 - 1517+75	Rt.	350	B	E
1499+50 - 1503+00	Lt.	350	F	B					
1511+00 - 1517+75	Lt.	675	E	B					
1253+50 - 1258+00	Rt.	450	B	E					



Signal Properties Inc. - Owner
(6-8-01-6)



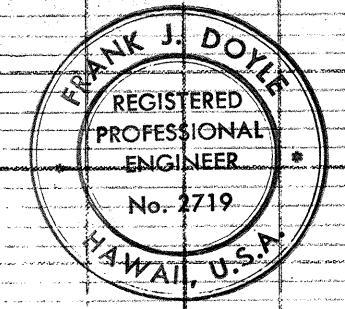
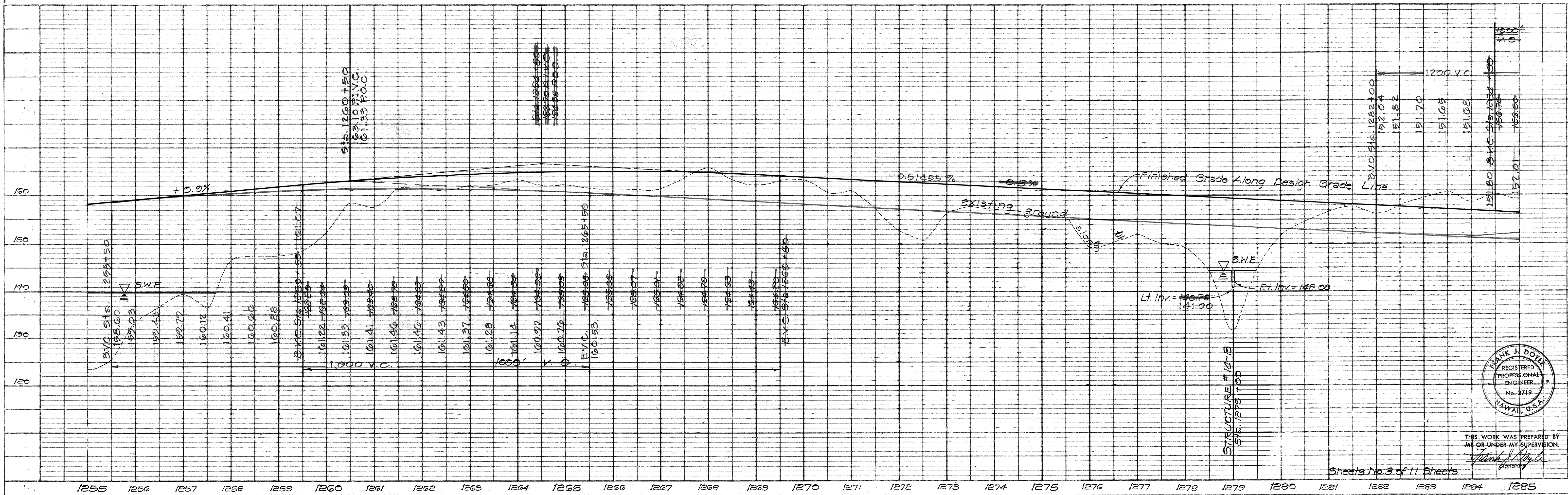
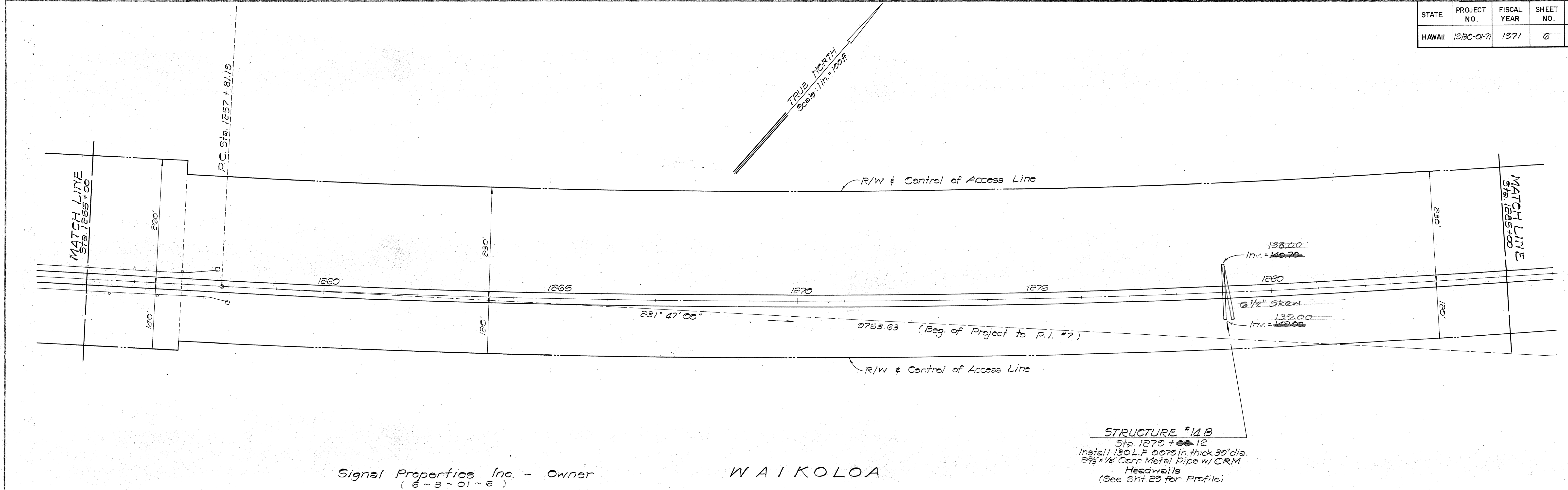
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Sheet No. 2 of 11 Sheets

STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	193C-01-71	1971	6	62

DATE	BY	DATE	BY

DATE	BY	DATE	BY



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Frank J. Doyle
Engineer

PLAN	DATE	BY
REVISIONS		
NO.		
DATE		
BY		
REVISIONS		
NO.		
DATE		
BY		

PROFILE	DATE	BY
REVISIONS		
NO.		
DATE		
BY		
REVISIONS		
NO.		
DATE		
BY		

STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	1980-01-71	1971	7	62

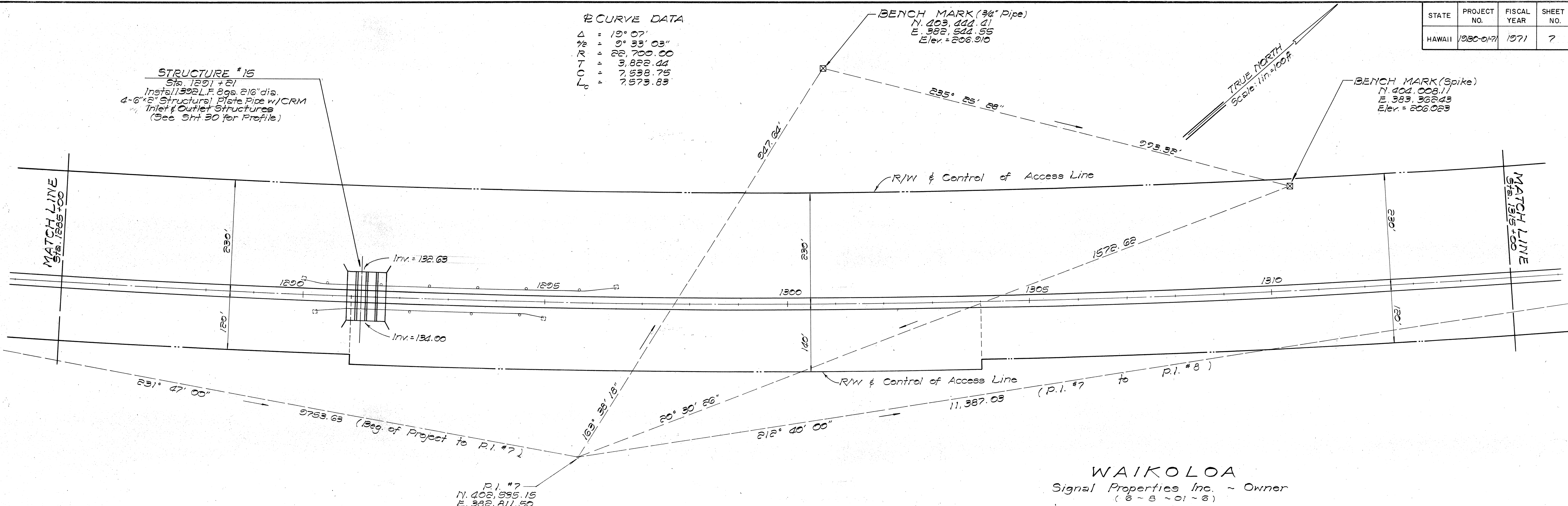
CURVE DATA	
Δ	19° 07'
R	91.93 03"
L	3,700.00
P.T.	9,822.44
P.C.	7,938.75
B.P.	7,979.89

STRUCTURE #15
Sta. 1291 + 81
Instal 1992 L.F. 89, 216' dia.
4-6" x 8" Structure Plate Pipe w/CRM
Inlet & Outlet Structures
(See Sht 30 for Profile)

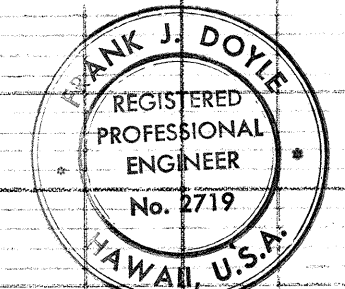
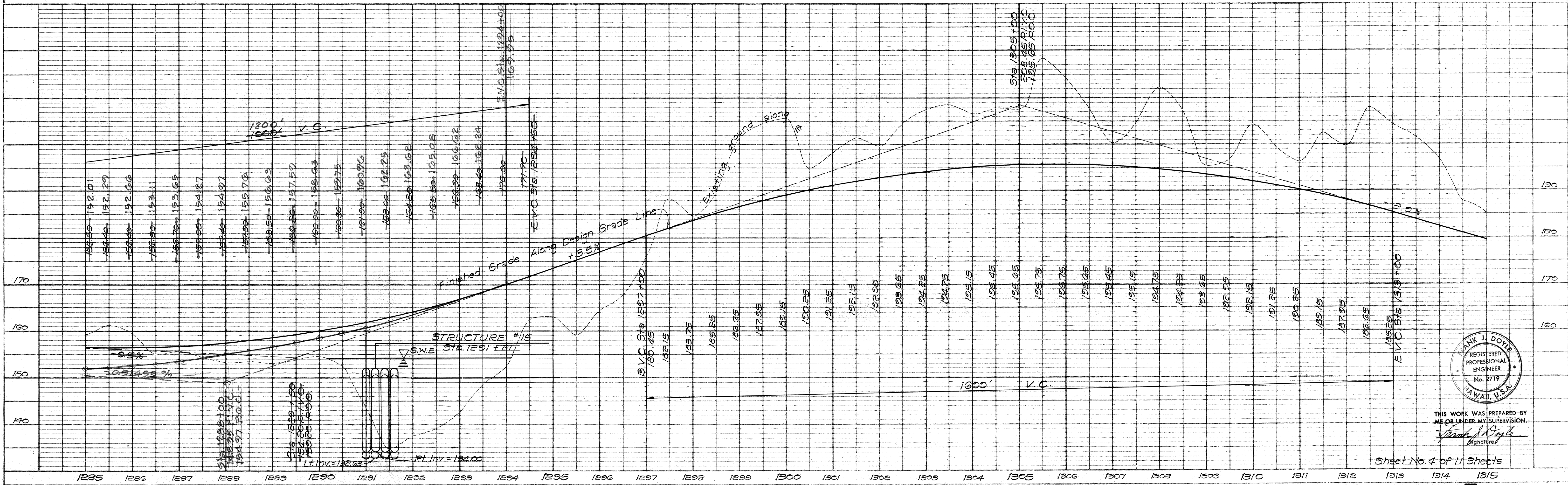
BENCH MARK (3/4" Pipe)
N. 403, 144.41
E. 382, 544.55
Elev. = 206.910

BENCH MARK (Spike)
N. 404, 003.11
E. 383, 362.43
Elev. = 206.023

TRUE NORTH
Scale 1 in. = 100 ft.



WAIKOLOA
Signal Properties Inc. - Owner
(6-8-01-6)



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Frank J. Doyle
Signature

Sheet No. 4 of 11 Sheets

STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	980-01-71	1971	8	62

PLAN	DATE	BY
SURVEYED PLOTTED ALIGNED ON GRID RT. OF WAY CHECKED NO.		

PROFILE	DATE	BY
SURVEYED PLOTTED GRADES CHECKED B.M.'S NOTED STRUCTURE NOTATIONS OK'D NO.		

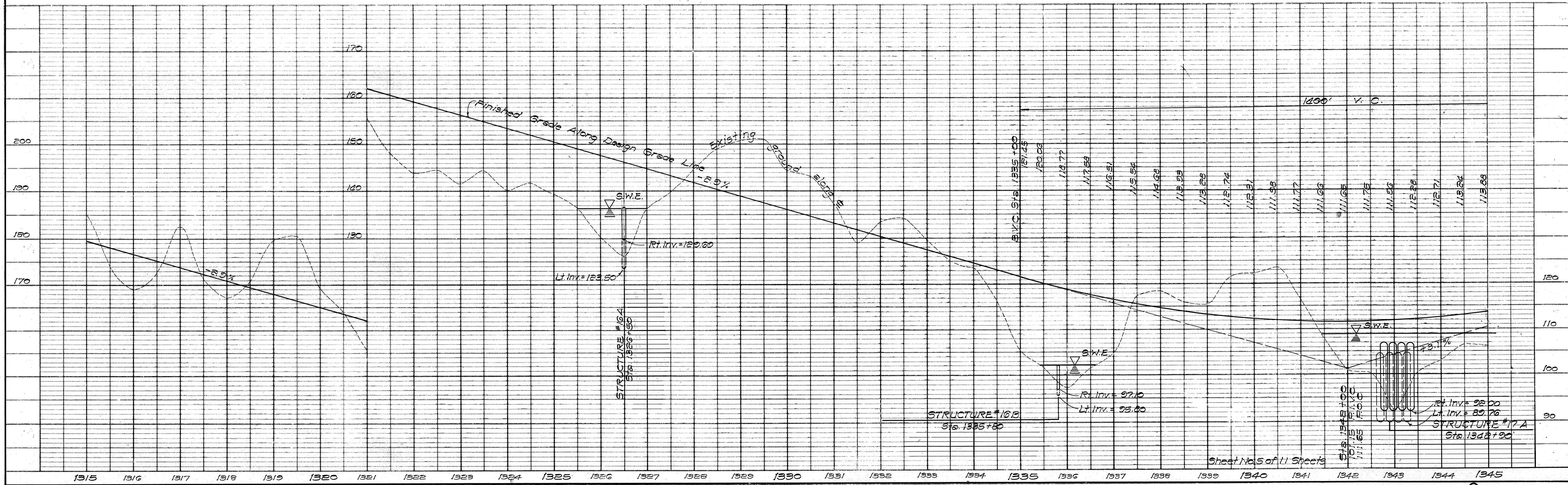
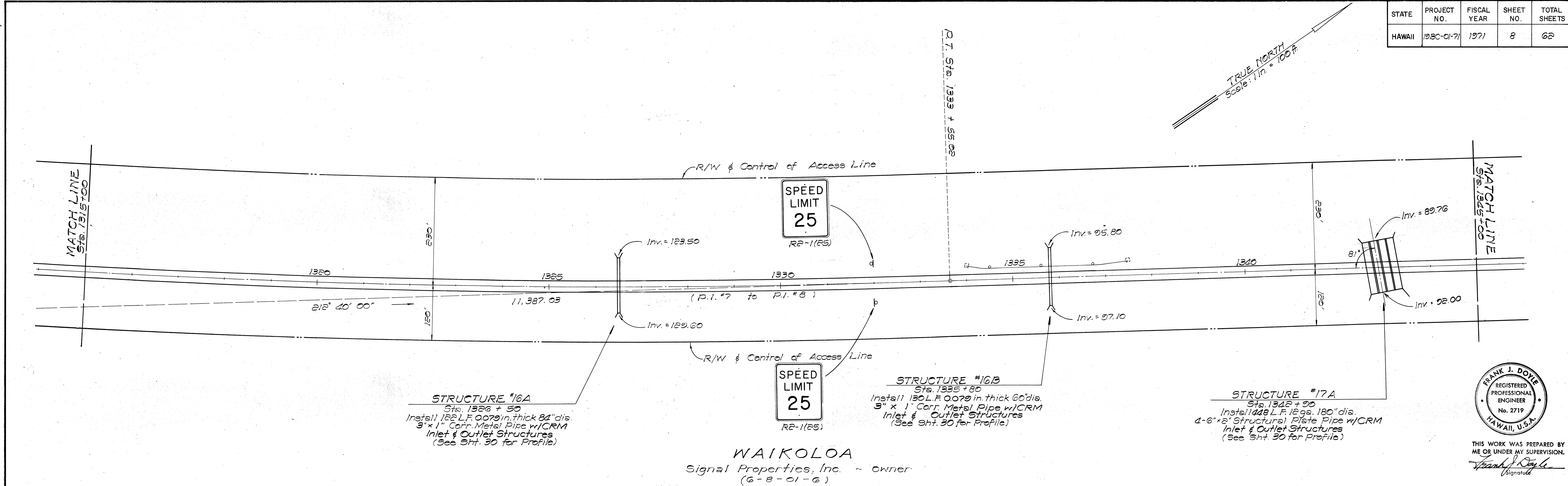
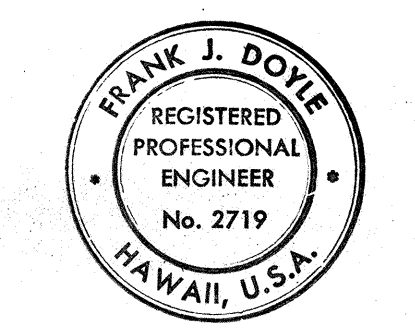


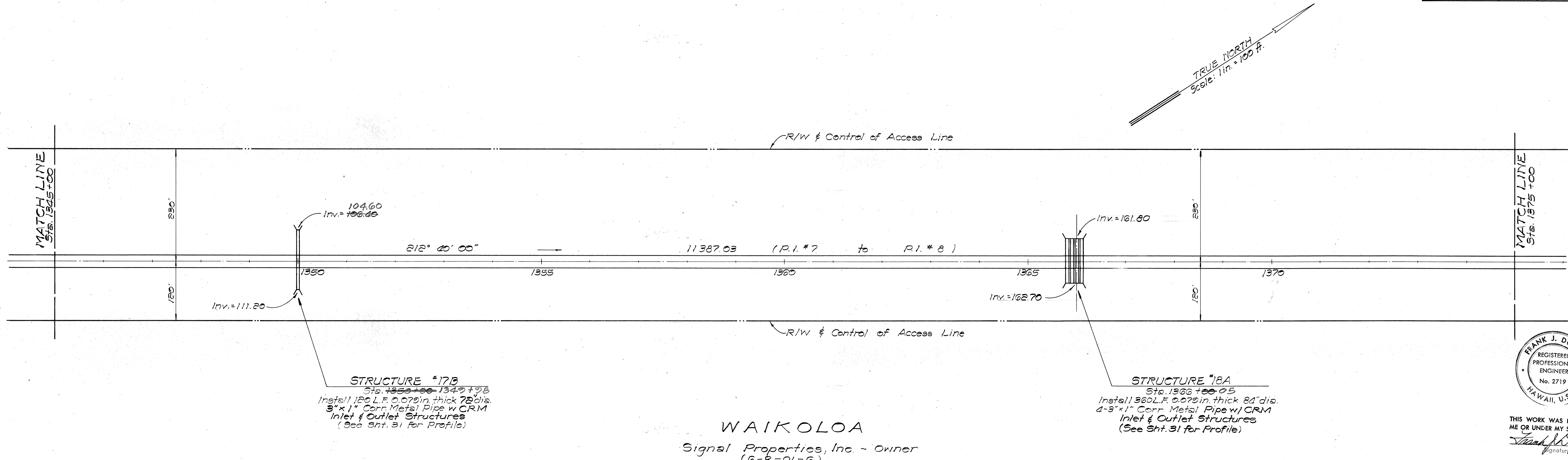
PLATE 1-PLAN PROFILE R.P.R. STANDARD
THE FREDERICK POST CO., CHICAGO



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Frank J. Doyle
Signature

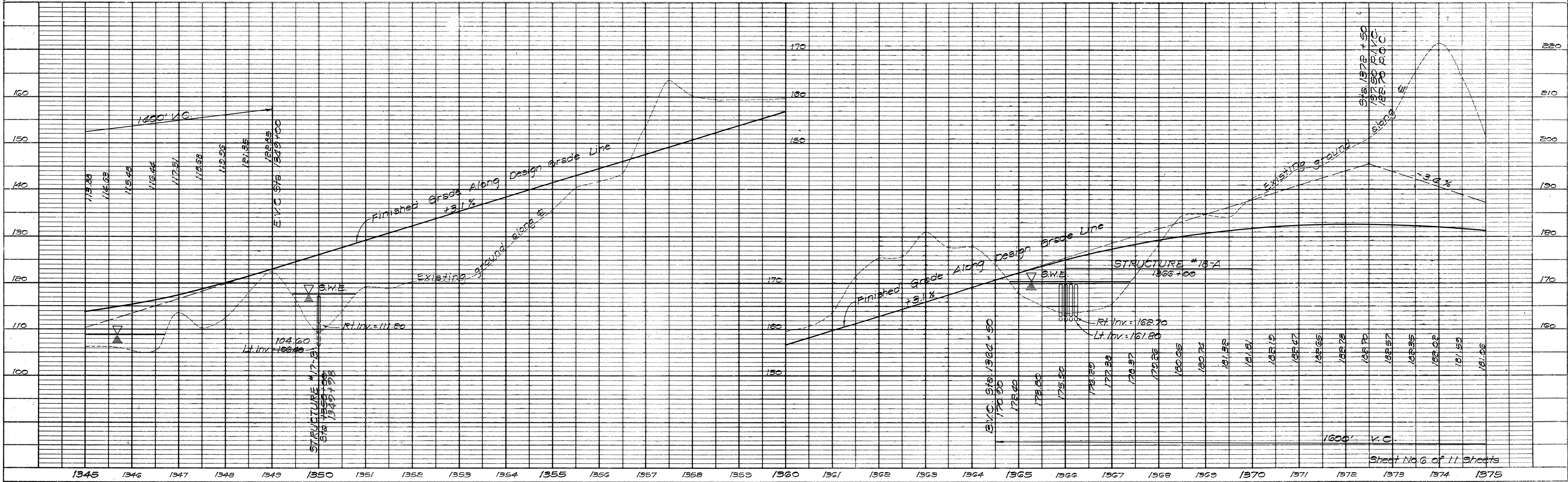
STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	198C-01-71	1971	9	62

PLAN	DATE
SURVEYED	
PLOTTED	
NOTE BOOK	
NO.	



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Frank J. Doyle

PROFILE	DATE
SURVEYED	
PLOTTED	
NOTE BOOK	
NO.	



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

PROFILE	SURVEYED	DATE
NOTE BOOK	GRADES CHECKED	BY
NO.	STRUCTURE RATINGS CRD.	

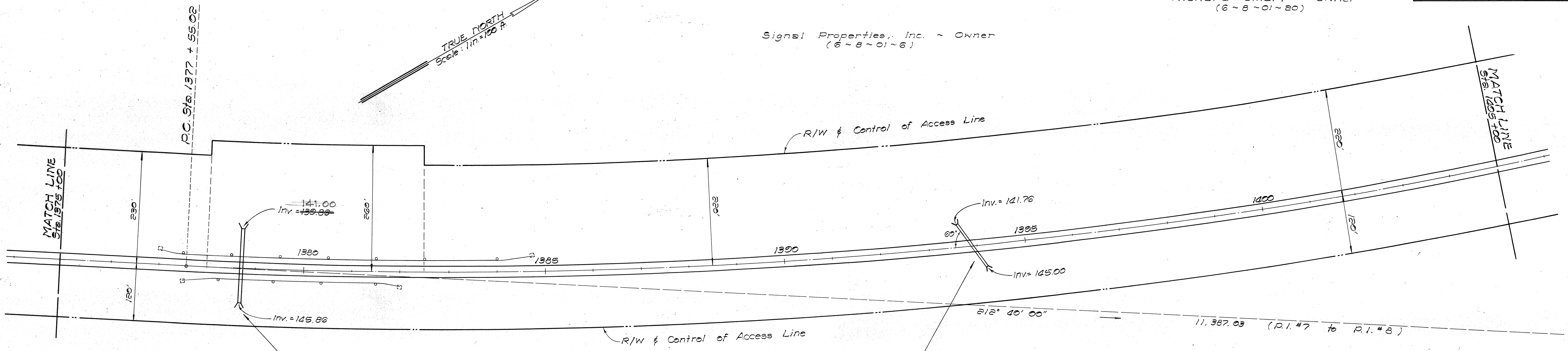
STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	1980-01-71	1971	10	62

WAIKOLOA

TRUE NORTH
Scale 1 in. = 100 ft.

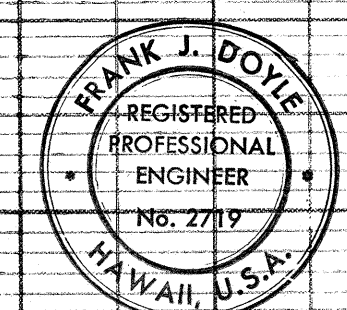
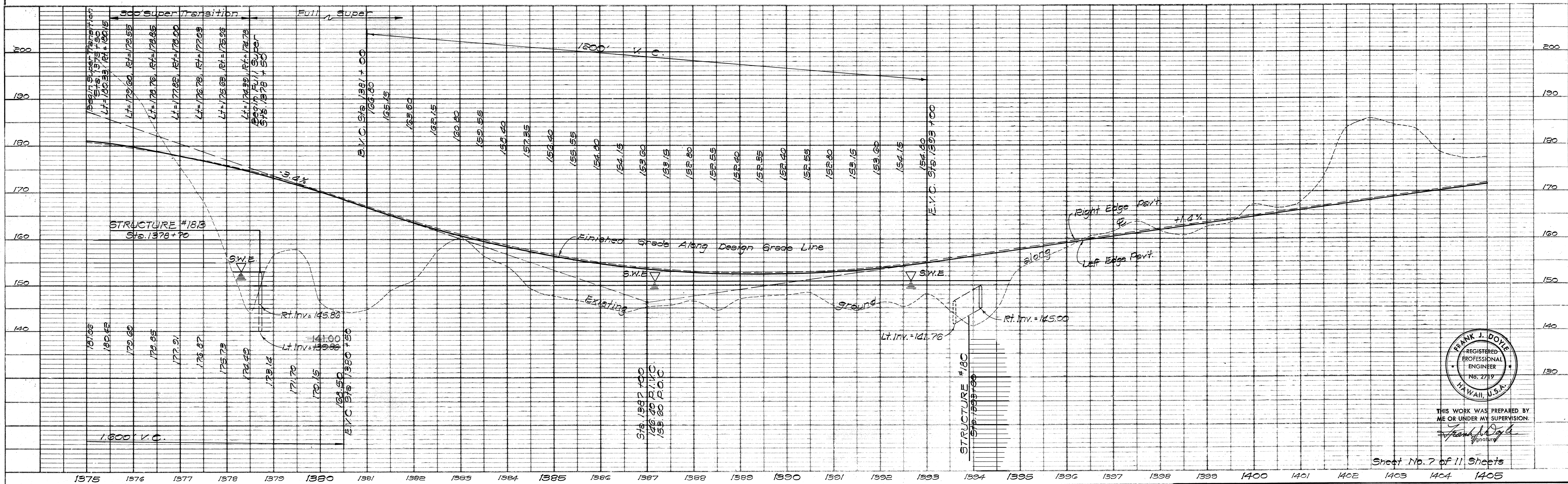
Signal Properties, Inc. ~ Owner
(6-8-01-6)

Richard Smart ~ Owner
(6-8-01-20)



STRUCTURE #18B
Sta. 1378+70
Instal 108 L.F. 0.079 in. thick,
53 L.F. 0.109 in. thick, 84" dia.
3" x 1" Corr. Metal Pipe w/CRM
Inlet & Outlet Structures
(See Sht. 31 for Profile)

STRUCTURE #18C
Sta. 1393+00
Instal 108 L.F. 0.079 in. thick 60" dia.
3" x 1" Corr. Metal Pipe w/CRM
Inlet & Outlet Structures
(See Sht. 31 for Profile)



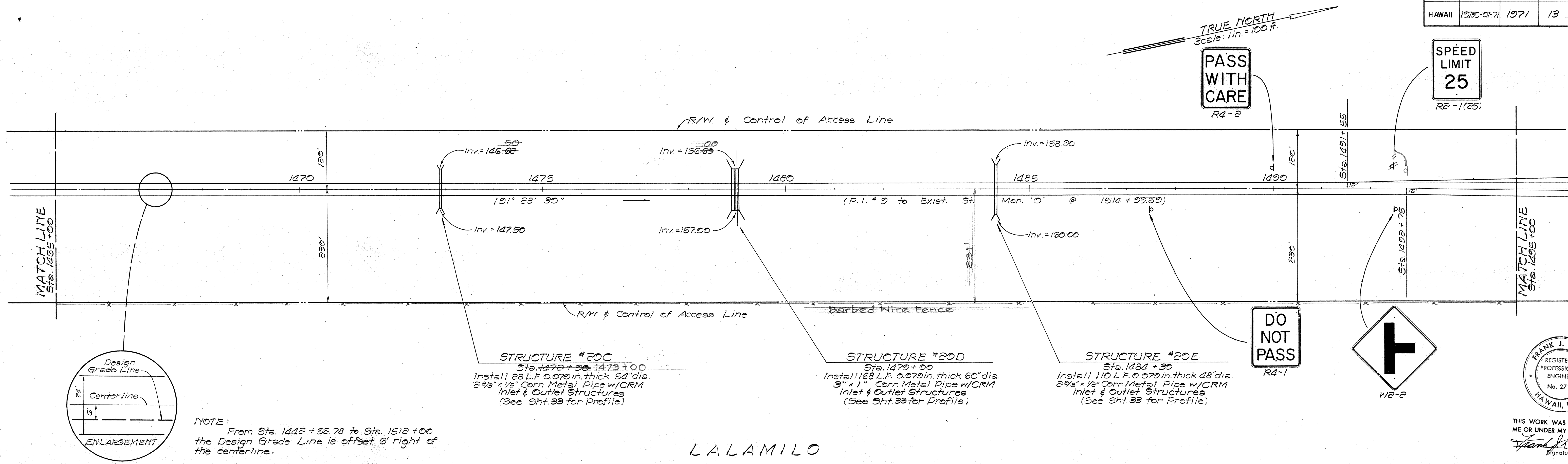
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Frank J. Doyle

Sheet No. 7 of 11 Sheets

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

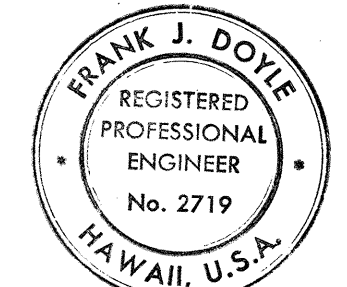
PROFILE	DATE
SURVEYED	BY
NOTE BOOK	NO.
GRADES CHECKED	
STRUCTURE NOTED	

STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	1213C-01-71	1971	13	62

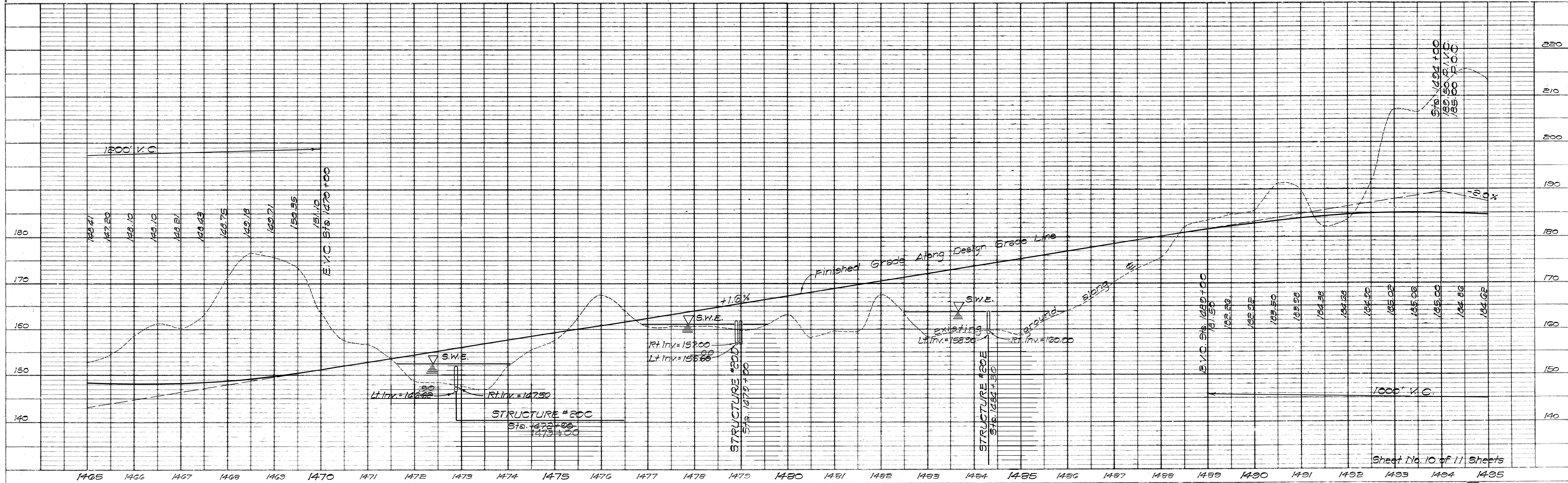


NOTE: From Sta. 1442+00.78 to Sta. 1512+00 the Design Grade Line is offset 6' right of the centerline.

LALAMILO
 State of Hawaii ~ Owner
 Palekoki Ranch, Inc. ~ Lessee
 (G ~ G ~ 01-2)



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Frank J. Doyle
 Signature



Sheet No. 10 of 11 Sheets

