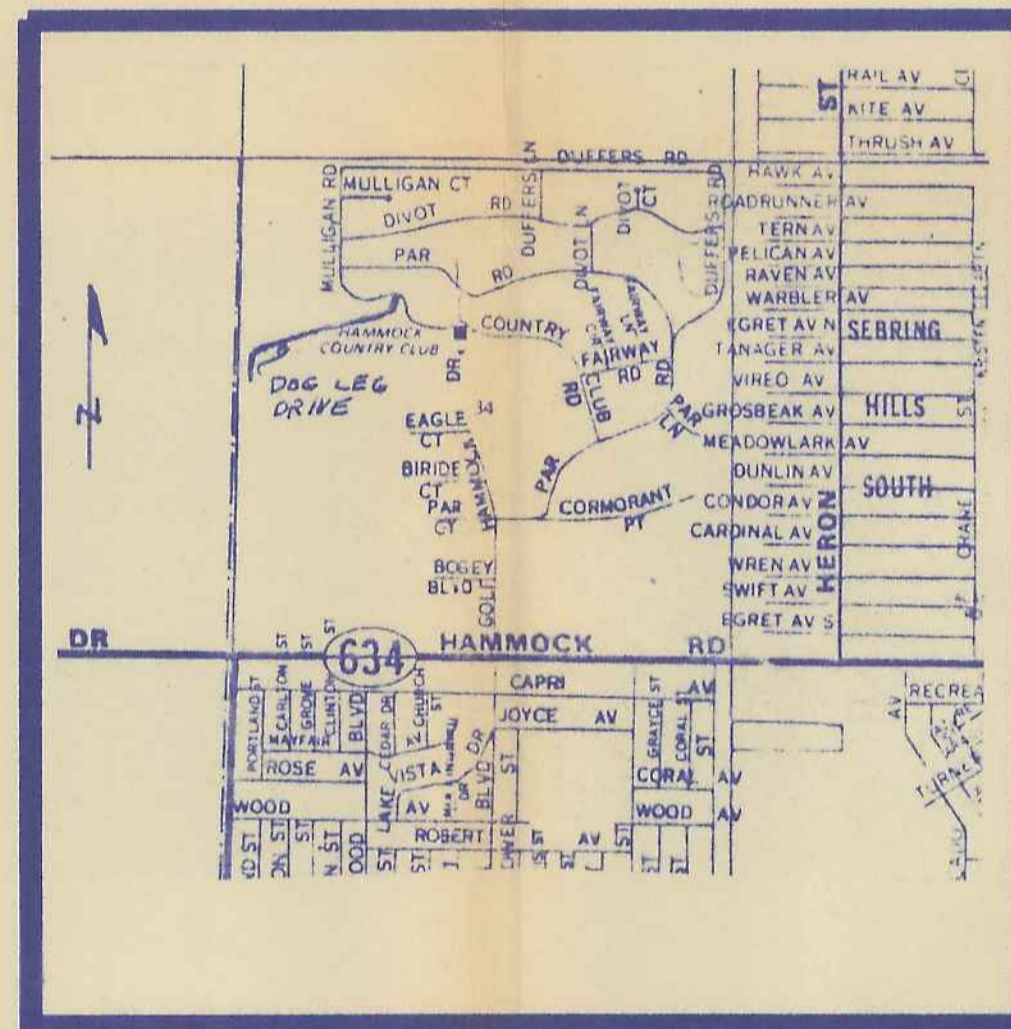


GOLF HAMMOCK UNIT 4-B

SECTION 34, TOWNSHIP 34 SOUTH, RANGE 28 EAST
HIGHLANDS COUNTY, FLORIDA



LOCATION MAP
SCALE 1" = 2000'

TABLE OF CONTENTS

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- SHEET 1A SPECIAL DETAILS
- SHEET 2 SITE PLAN
- SHEET 3 PAVEMENT AND DRAINAGE PLAN
- SHEET 4 ROAD PROFILES

SURVEYOR
 N. DALE THOMAS LAND SURVEYING, INC.
 3803 KENILWORTH BLVD.
 SEBRING, FLORIDA 33870
 (813) 385-6668

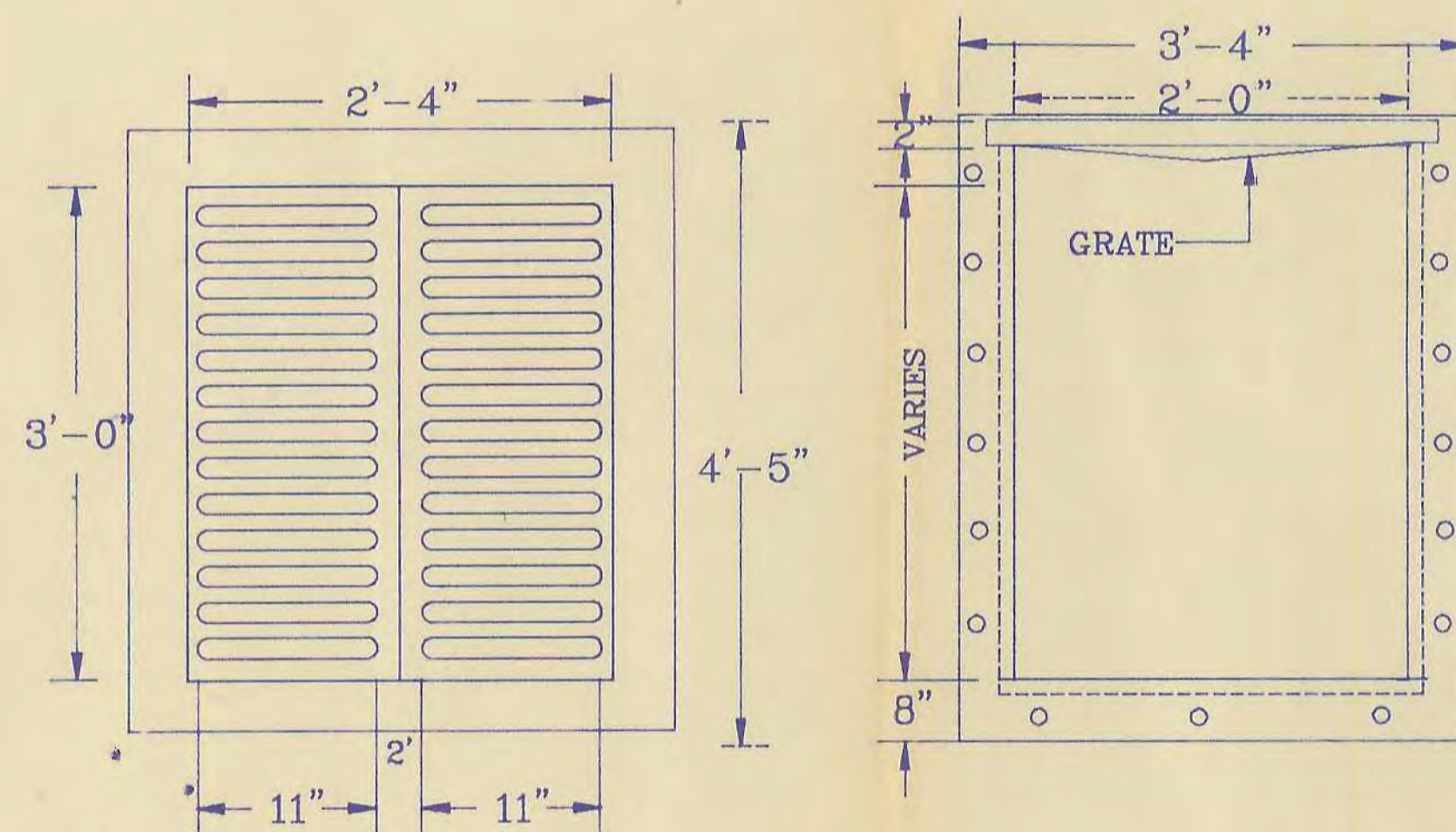
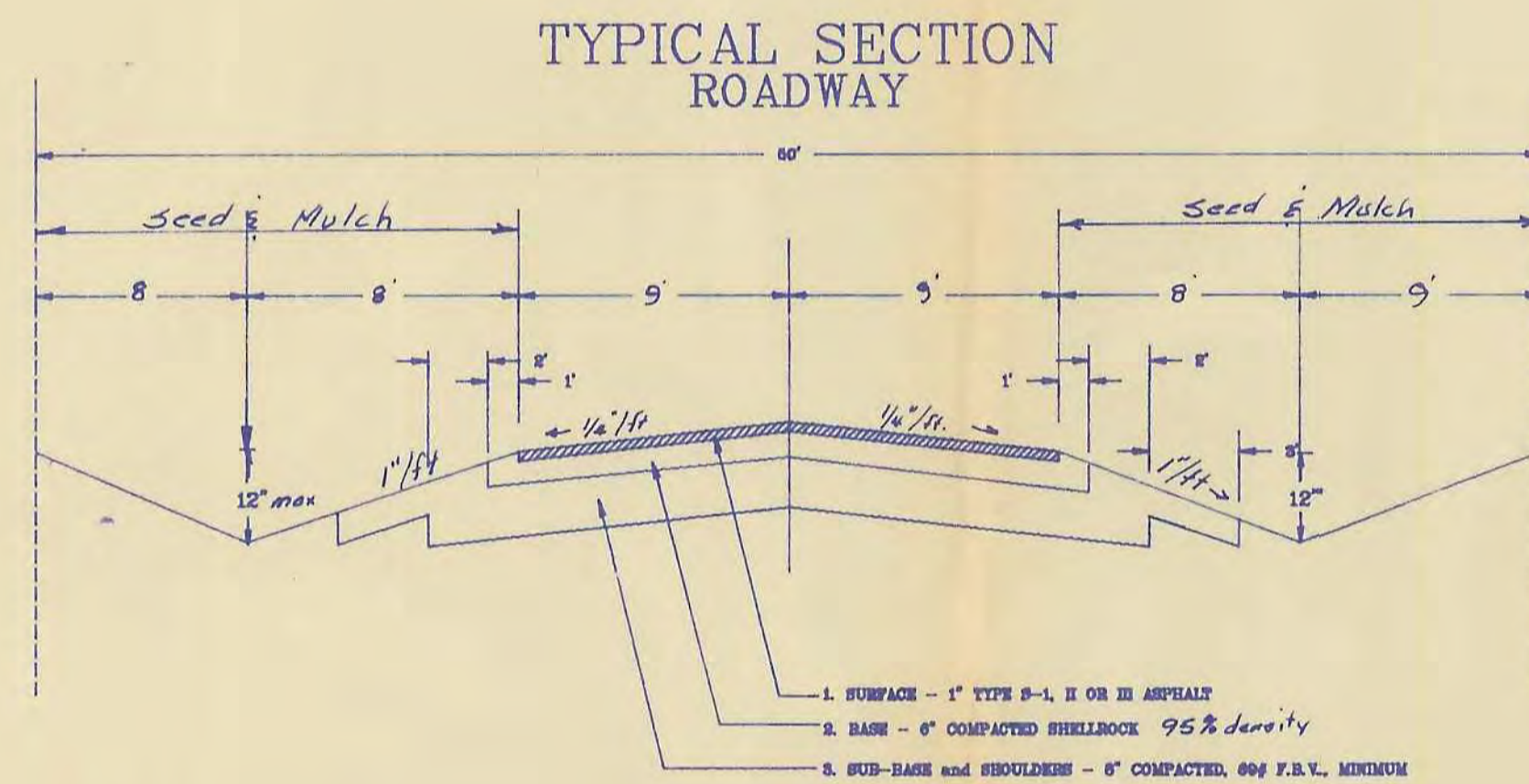
ENGINEER
 TED G. KAIPAINEN
 1310 SHAMROCK DRIVE
 SEBRING, FLORIDA 33870
 (813)385-2758

Need ① Benchmark Location
② Surveying Agreement
③ Security Agreement
 OFFICE COPY
Approved by [Signature]
10-14-96
 AUG 28 1996
 HIGHLANDS COUNTY FLORIDA

Revised 8/29/96

GENERAL INFORMATION

DEVELOPMENT NAME	TOTAL ACREAGE
GOLF HAMMOCK UNIT 4-B HAMMOCK ROAD SEBRING, FL 33870	15.63 AC.
DEVELOPMENT OWNER	MINIMUM LOT AREA
THOMAS WOHL 4002 PAR ROAD SEBRING, FL 33870 813-382-3739	10,000 s.f.
ENGINEER	NUMBER OF LOTS
TED G. KAIKAINEN 1310 SHAMROCK DRIVE SEBRING, FLORIDA 33870 (813)385-2758	28
TESTING LAB	ZONING TYPE
ARDAMAN AND ASSOC. 1987 S. HOLLAND PARKWAY 1987 S. HOLLAND PARKWAY BARTOW, FLORIDA 33830 (813)533-3893	R-2
	WATER SYSTEM
	WELLS ON EACH LOT
	SANITARY SYSTEM
	SEPTIC TANKS
	LENGTH OF STREETS
	2442.88 FEET



CATCH BASIN

GENERAL NOTES

- THE ENTIRE SITE IS ABOVE THE 100 YEAR FLOOD PLANE AND IS THEREFORE NOT IN A FLOOD HAZARD AREA.
- ALL LOTS ARE BUILDABLE AREA.
- THERE ARE NO EXISTING BUILDINGS, CULVERTS, EASEMENTS, BOUNDRIES OF INCORPORATED AREAS, LAKES, STREETS, WATER COURSES OR WATER MAINS EXCEPT AS SHOWN OR NOTED.
- ALL LOTS MEET THE MINIMUM SQUARE FOOTAGE AND ROAD FRONTAGE ALLOWED BY CURRENT ZONING CLASSIFICATION.
- ALL AREAS DISTURBED BY THIS CONSTRUCTION WILL BE SEEDED AND MULCHED OR SODDED.
- THE SEEDING FORMULA WILL BE AS FOLLOWS:
30# OF TEMPORARY SEED
100# OF PERMANENT SEED
400# OF 8-8-8 FERTILIZER
PER ACRE
- ALL ELEVATION REFER TO MEAN SEA LEVEL.
- ANY UNDERGROUND UTILITIES SHLL BE INSTALLED PRIOR TO PLACEMENT OF BASE MATERIAL.
- REAR LOT LINE RETENTION AS WELL AS RETENTION PONDS WILL BE PROVIDED BY THIS PLAN.
- ALL SWALES AND DITCHES COMPLETE WITH EROSION CONTROLS, ARE TO BE CONSTRUCTED AS PART OF THIS PLAN.
- ALL TEST RESULTS FROM THE TESTING LAB SHALL BE SENT DIRECTLY THE OFFICE OF THE COUNTY ENGINEER, 4344 GEORGE BLVD., SEBRING, FLORIDA 33870.
- 100% RETENTION ON SITE.
- SEASONAL HIGH WATER TABLE -136.00
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INSURE THAT ALL ALL SURFACE WATER IS CONTROLLED DURING CONSTRUCTION SO THAT THERE IS NO ADVERSE RUN-OFF ONTO ADJACENT PROPERTIES.

GENERAL SPECIFICATION

CLEARING AND GRUBBING

SELECTED CLEARING AND GRUBBING AS NECESSARY TO INSTALL IMPROVEMENTS.

BACKFILLING

EXCAVATION AND DEPRESSIONS MUST BE PROPERLY BACKFILLED AND COPACTED IN ACCORDANCE WITH GOOD ENGINEERING PRACTICE.

DISPOSAL OF WASTE MATERIAL

- CUMBO AND OTHER PLASTIC CLAYS SHALL BE REMOVED WITHIN THE AREA ONE FOOT BELOW THE SUBGRADE AND EXTENDING HORIZONTALLY TO THE DITCH SLOPE, AND DISPOSED OF BY THE DEVELOPER.
- MUCK AND PEAT SHALL BE COMPLETELY REMOVED WITHIN THE AREA BETWEEN POINTS FIVE (5) FEET OUTSIDE THE EDGES OF PAVEMENT AND SPREAD UNIFORMLY TWO (2) INCHES LOOSE , ON SHOULDER AND FRONT SLOPES, OR DISPOSED OF BY THE DEVELOPER.
- TRASH, BRUSH, TREES, ETC. MAY BE BURNED WITHIN THE RIGHT-OF-WAY LIMITS PROVIDED NO LOCAL, COUNTY, STATE OR FEDERAL LAW IS VIOLATED.

GRADING

THE FILL SECTIONS SHALL BE CONSTRUCTED IN TWELVE (12") INCH MAXIMUM LIFTS TO PROVIDE 90% DENSITY (AASHTO T-190)

SUBBASE

WIDTH: THE SUBBASE SHALL BE FOUR (4') FEET WIDER THAN THE BASE COURSE (2' FEET EACH SIDE) AND IN CASE OF CURB AND GUTTER SHALL EXTEND TO THE BACK SIDE OF THE CURB.

STABILIZED SUBBASE

THE SUBBASE SHALL HAVE A BEARING VALUE OF SIXTY (60) P.S.I. 96% DENSITY (FLORIDA BEARING VALUE METHOD AND AASHTO T-190). SUBBASE THICKNESS SHALL BE AS FOLLOWS:

- PARKING LOTS AND PRIVATE ROADS - NONE REQUIRED
- LOCAL ROADS - 8" COMPACTED SUBBASE
- COLLECTOR ROADS - 10" COMPACTED SUBBASE
- ARTERIAL ROADS - 12" COMPACTED SUBBASE

CARE OF SUBBASE

TRUCKS WILL BE ALLOWED ON FINISHED SUBBASE TO DUMP BASE COURSE MATERIAL, BUT THE DEVELOPER WILL BE REQUIRED TO LEVEL OUT ANY RUTS. IN THE EVENT THAT THE TRUCKS CAUSE EXCESSIVE DAMAGE TO THE SUBBASE, THE COUNTY ENGINEER MAY REQUIRE DUMPING, SPREADING AND HAULING ON TOP OF THE BASE COURSE.

BASE

ALL BASE MATERIAL SHALL BE D.O.T. APPROVED SHELL ROCK OR EQUIVALENT, SUITABLE TO THE COUNTY ENGINEER, AND WILL BE COMPACTED ON A STABILIZED SUBBASE OF 60 P.S.I.(F.B.V.), 96% DENSITY, AND THE THICKNESS SPECIFIED BELOW.

- PARKING LOTS, CAMPGROUNDS, RV PARKS, P.U.D.'S, AND MOBILE HOME PARK ROADS - 4"
- LOCAL ROADS - 6"
- COLLECTOR ROADS - 8"
- ARTERIAL ROADS - 10"

THE WIDTH SHALL BE TWO (2') FEET WIDER (1' ON EACH SIDE) THAN THE FINISHED SURFACE, OR TO THE BACK OF THE CURB.

A PRIME COAT SHALL BE APPLIED TO THE TOP OF THE BASE COURSE AT A RATE OF 0.15 GALLONS PER SQUARE YARD COVERED WITH CLEAN SAND AT A RATE OF 0.15 CUBIC FEET PER SQUARE YARD AND THAN TRAFFIC ROLLED.

SURFACE

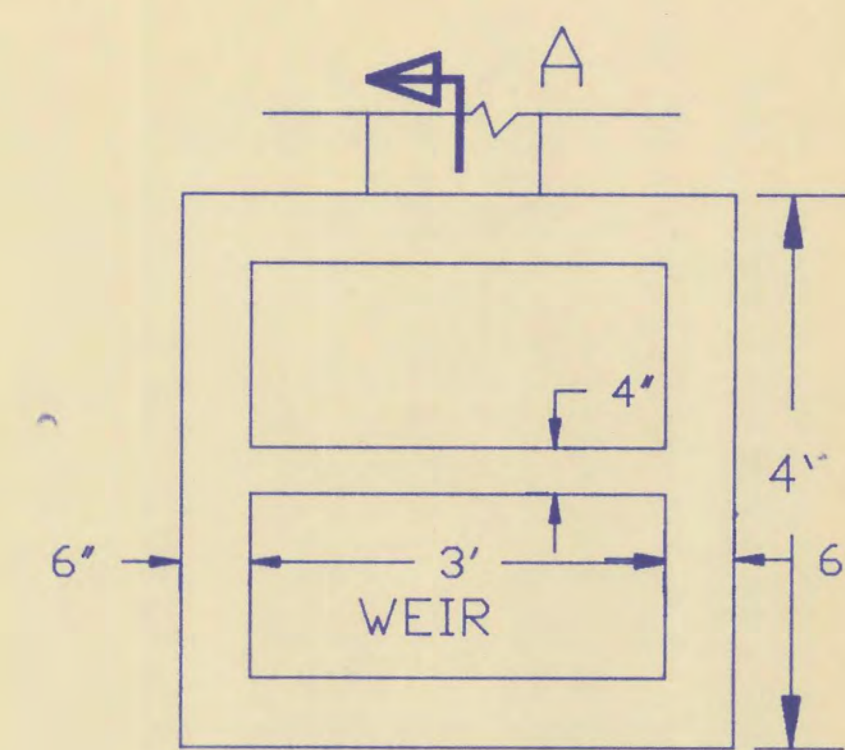
THE SURFACE COURSE SHALL BE ONE (1") TYPE S-1, TYPE II OR TYPE III ASPHALTIC CONCRETE EIGHTEEN (18") WIDE WITH MINIMUM TURNING RADI OF 35'.

TED G. KAIKAINEN ENGINEERING
1310 SHAMROCK DRIVE
SEBRING, FLORIDA 33870
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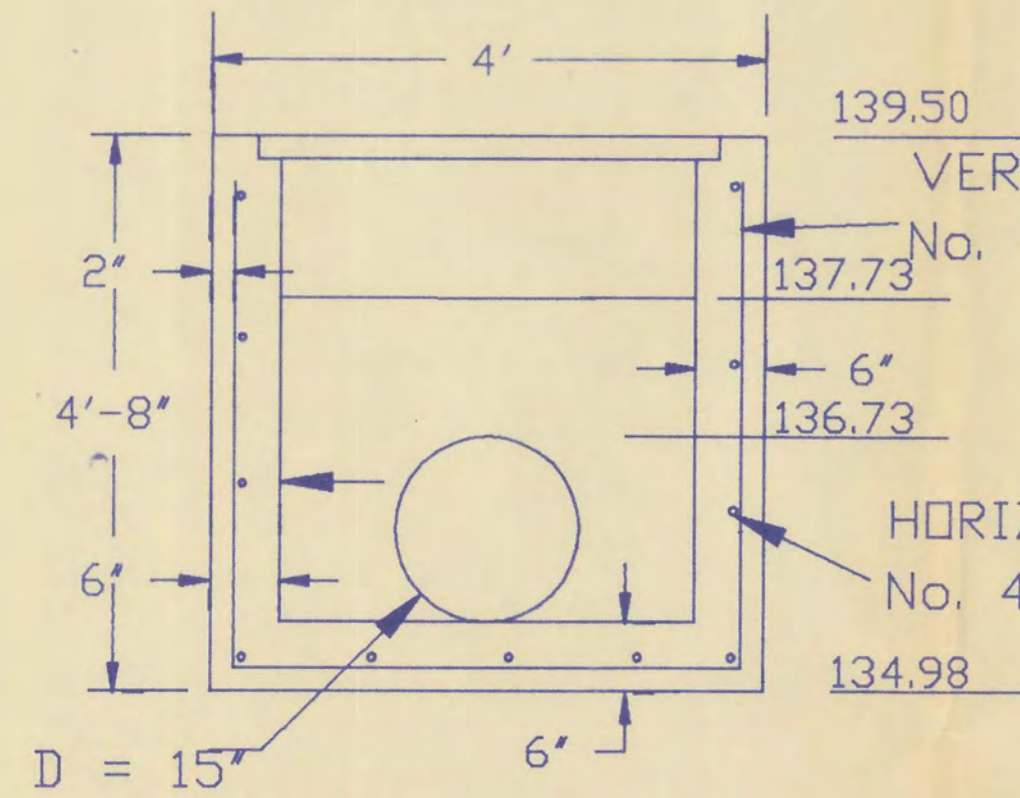
GOLF HAMMOCK UNIT 4-B

Signature: *Ted G. Kaikainen* Date: 7/7/86

1/4

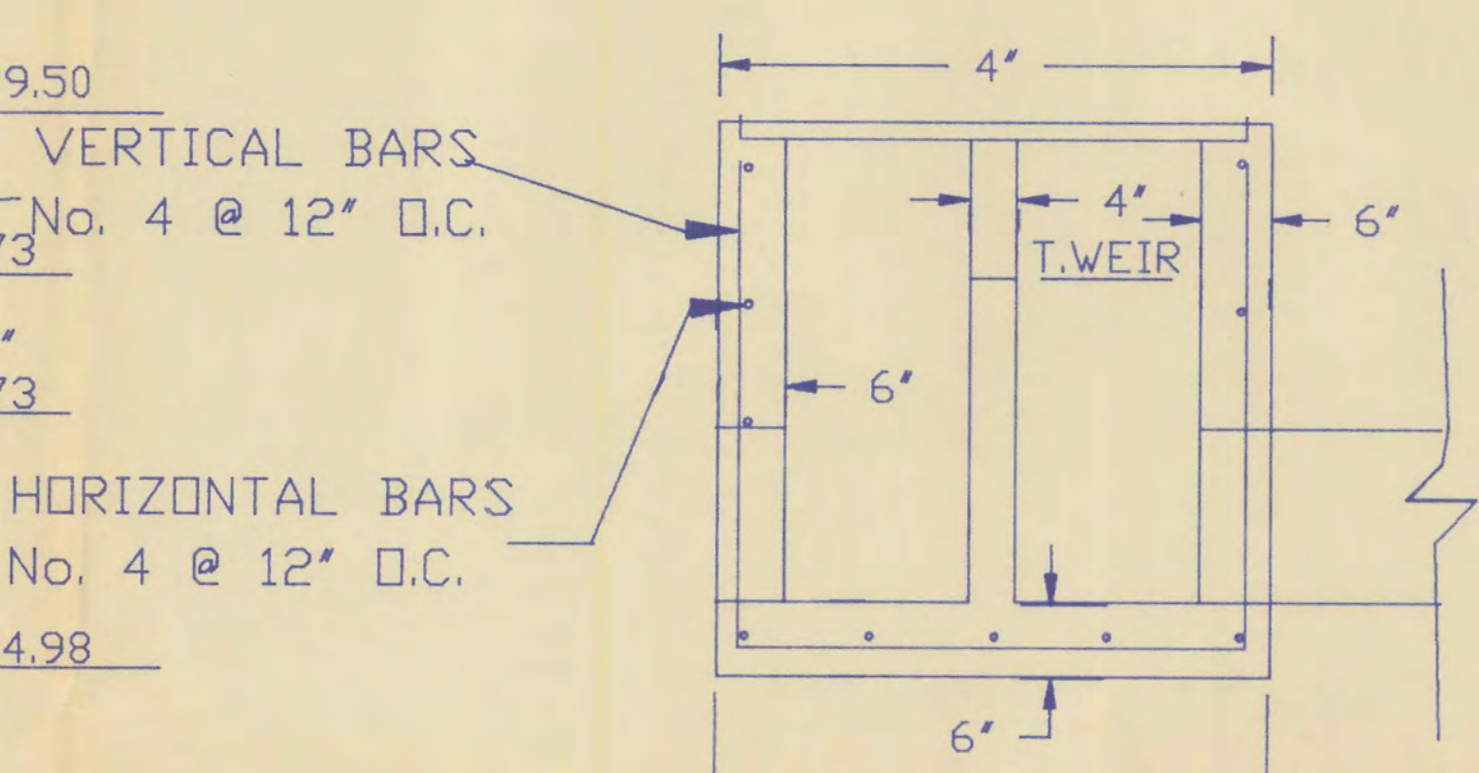


PLAN VIEW



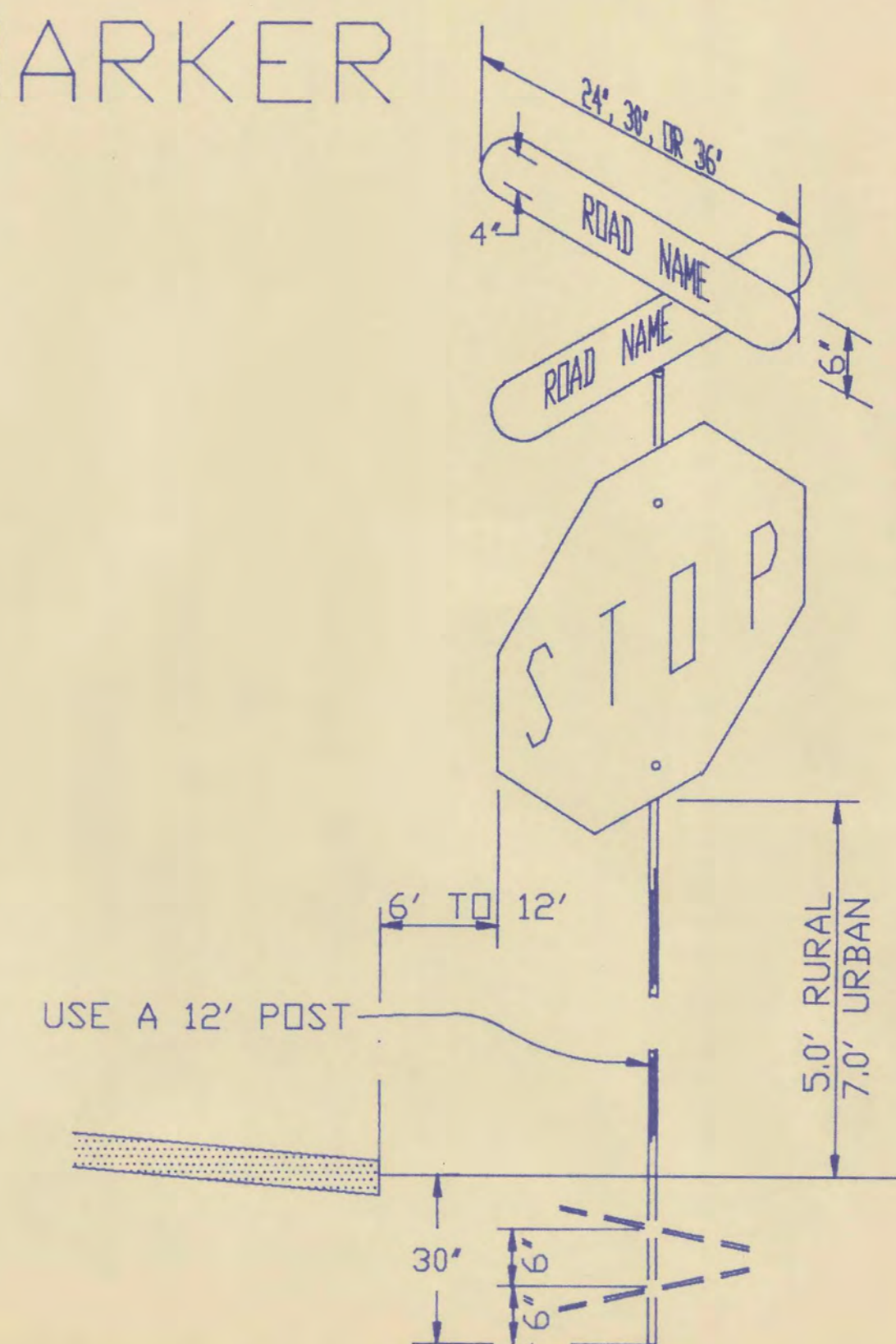
ELEVATION

WEIR DETAILS



SECTION A-A

SIGN AND ROAD MARKER



ROAD SIGNS

ALUMINUM PLATES - MINIMUM THICKNESS .080 INCHES, DIE CUT ALCOA ALLOY 6061-T6 OR EQUAL. WHITE LETTERS WITH GREEN REFLECTORIZED BACKGROUND.

STOP SIGN

ALUMINUM PLATES - MINIMUM THICKNESS .080 INCHES, DIE CUT ALCOA ALLOY 6061-T6 OR EQUAL. WHITE LETTERS WITH RED REFLECTORIZED BACKGROUND. STANDARD SIZE 1' 30"

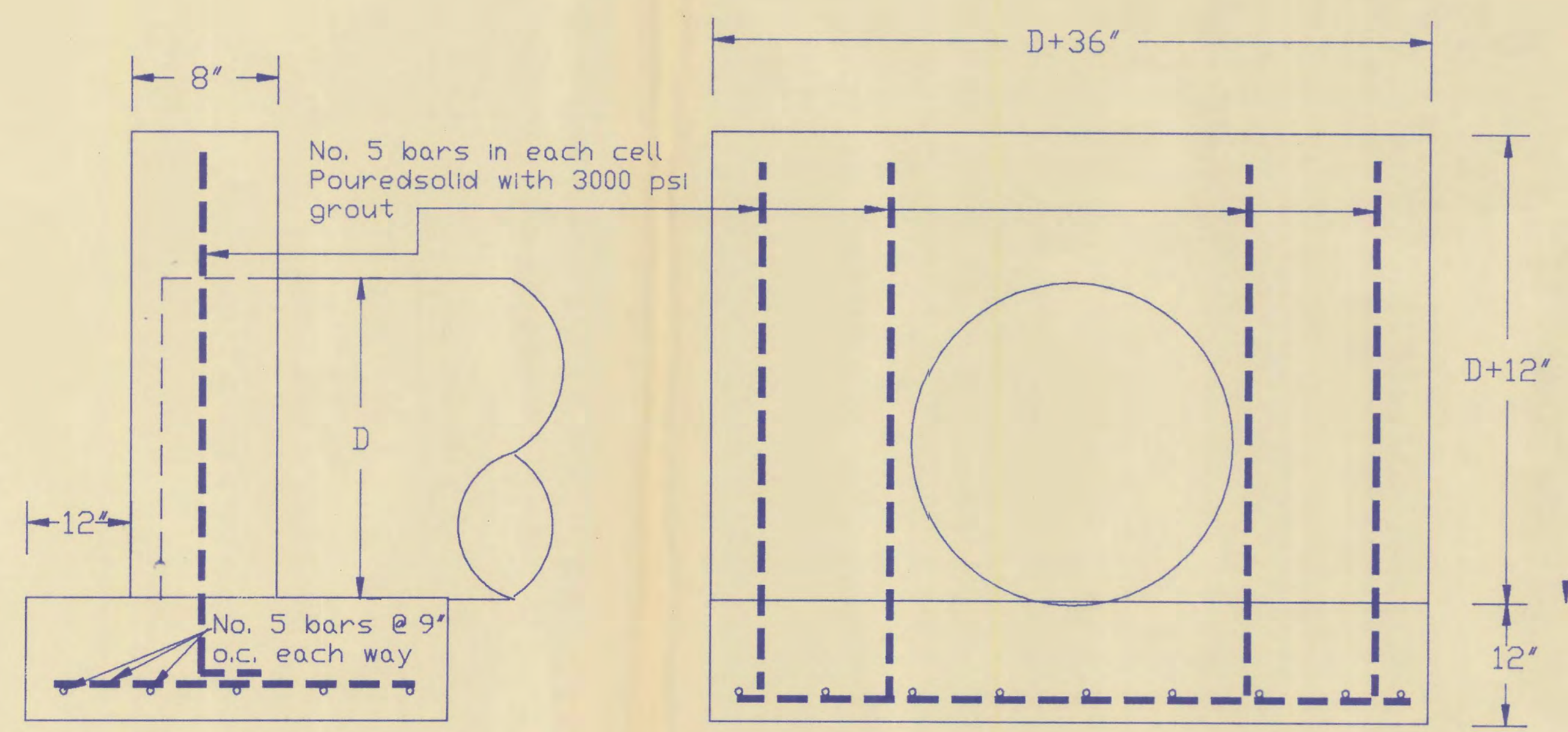
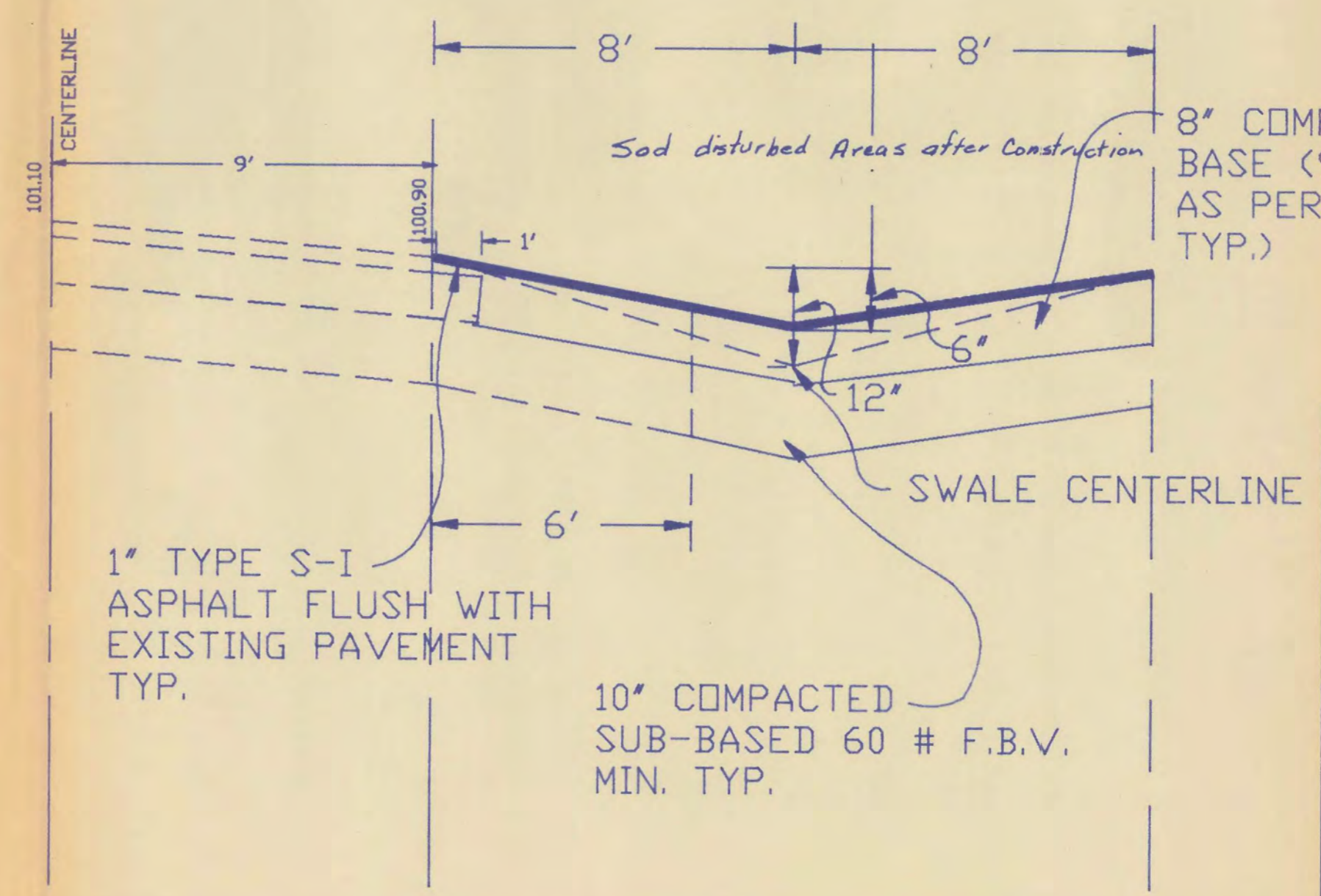
BASE DETAIL

CROSSPIN - (2) 3/8" X 12" THROUGH PIPE PERPENDICULAR TO EACH OTHER, REQUIRED.

NOTES:

1. PAVEMENT MARKINGS AS PER CURRENT FLORIDA DEPARTMENT OF TRANSPORTATION SPECIFICATIONS.
2. ALL CONSTRUCTION TO CONFORM WITH THE REQUIREMENTS OF CURRENT HIGHLANDS COUNTY LAND DEVELOPMENT REGULATIONS.
3. ALL DISTURBED AREA IS TO BE SODDED A DISTANCE OF FIVE (5) FEET OUT FROM THE EDGE OF PAVEMENT AND THE BALANCE OF THE DISTURBED AREA IS TO BE SEEDED AND MULCHED AS PER CURRENT HIGHLANDS COUNTY REGULATIONS.
4. A 12" SHELLROCK BASE MAY BE SUBSTITUTED IN LIEU OF THE 8" BASE AND 10" STABILIZED SUB-BASE. THIS 12" SHELLROCK BASE MUST BE PLACED AND COMPACTED IN TWO LAYERS.

DRIVEWAY PROFILE

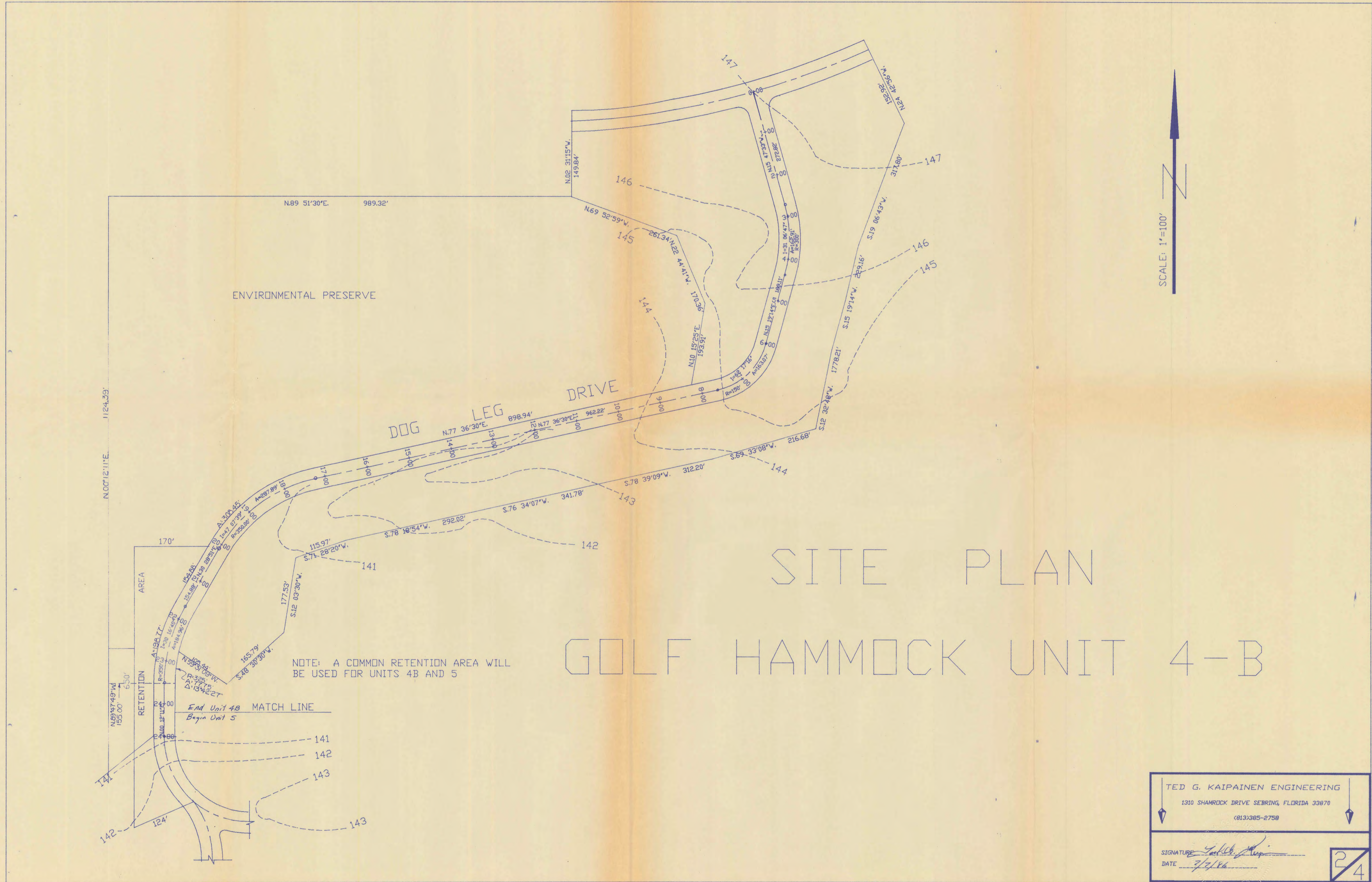


HEADWALL DETAIL

TED G. KAIPAINEN ENGINEERING
 1310 SHAMROCK DRIVE SEBRING, FLORIDA 33870
 (813)385-2758

SIGNATURE _____
 DATE 7/7/86

1A/4



ENVIRONMENTAL PRESERVE

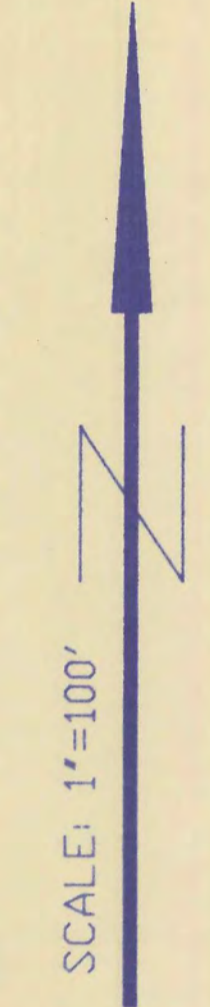
DOG LEG DRIVE

SITE PLAN

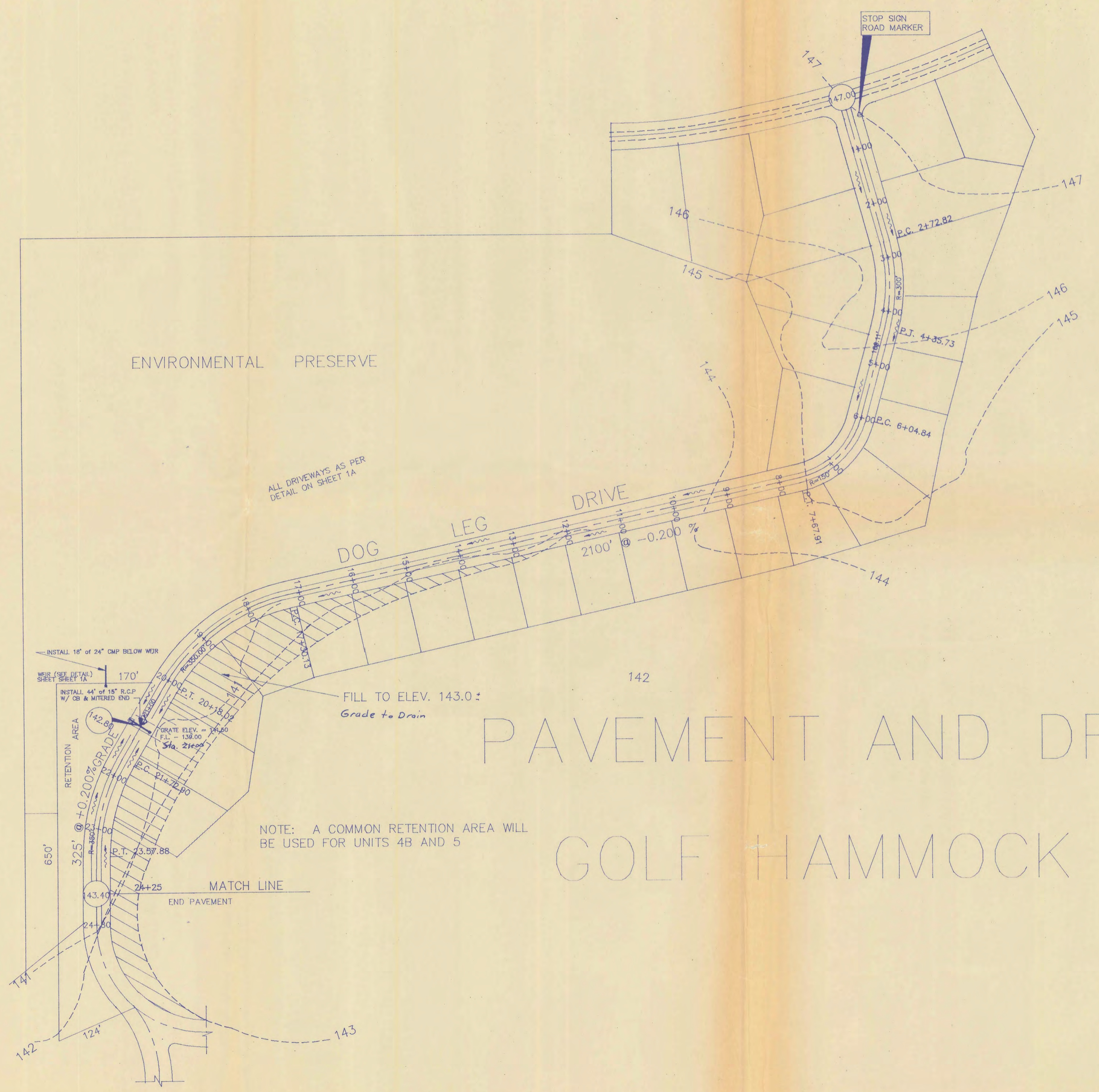
GOLF HAMMOCK UNIT 4-B

NOTE: A COMMON RETENTION AREA WILL BE USED FOR UNITS 4B AND 5

End Unit 4B
Begin Unit 5



TED G. KAIPAINEN ENGINEERING	
1310 SHAMROCK DRIVE SEBRING, FLORIDA 33870	
(813)385-2758	
SIGNATURE <i>Ted G. Kaipainen</i>	24
DATE 7/7/86	



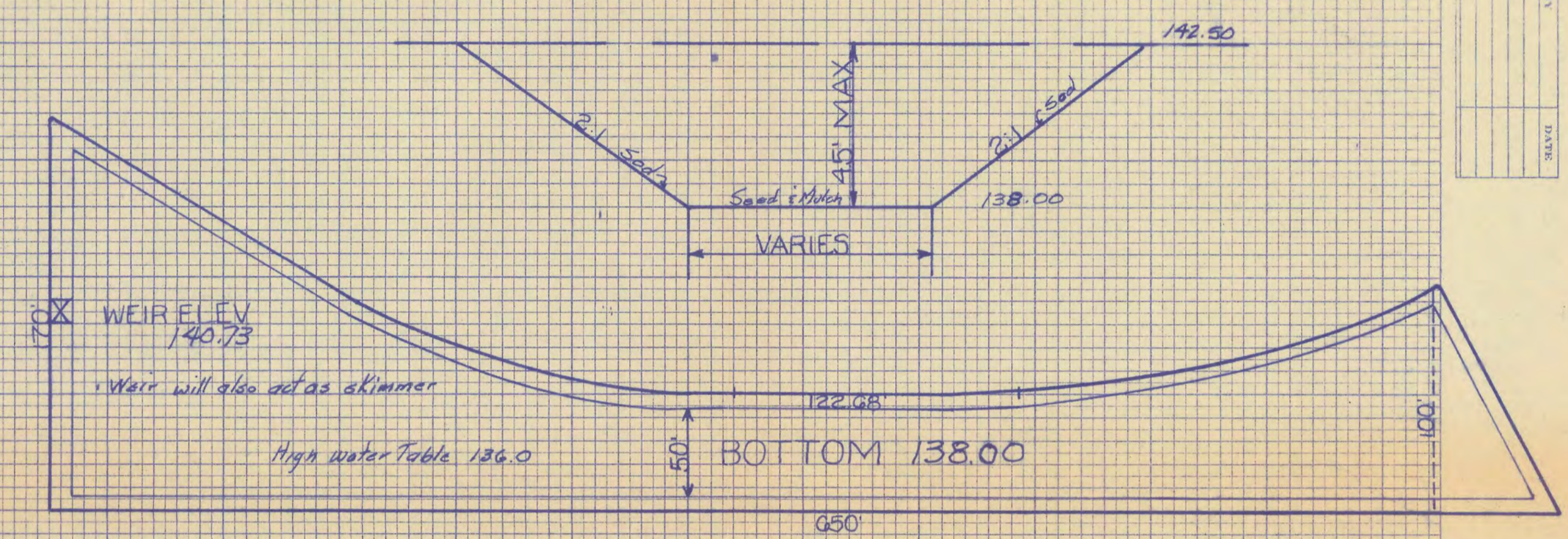
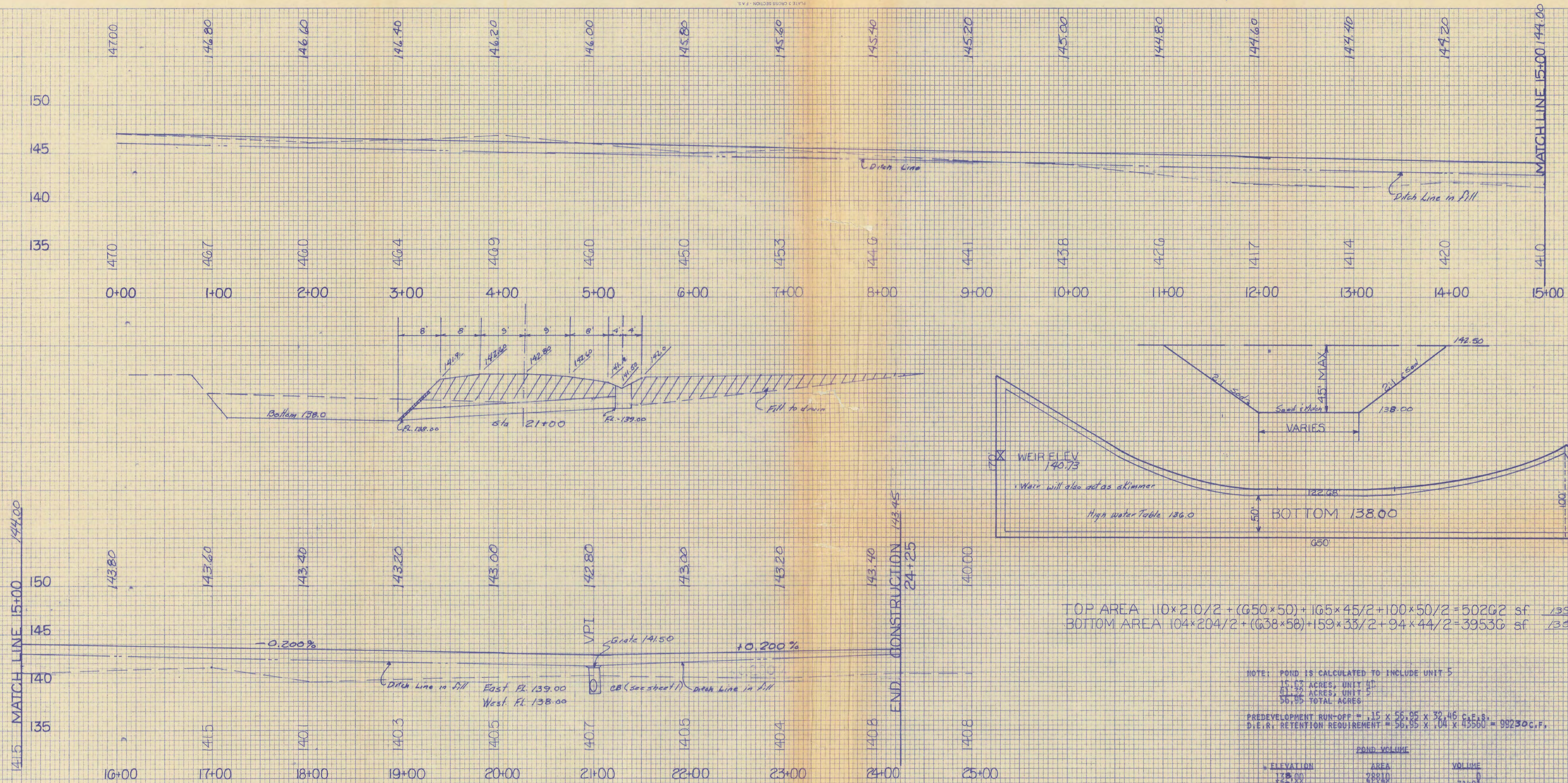
PAVEMENT AND DRAINAGE PLAN

GOLF HAMMOCK UNIT 4-B

SCALE: 1" = 100'

	KAIPIAINEN ENGINEERING 1310 SHAMROCK DRIVE SEBRING, FLORIDA 33870 (813) 385-3790
	Signature: <i>[Signature]</i> Date: 8/28/86

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TOP AREA $110 \times 210/2 + (650 \times 50) + 100 \times 45/2 + 100 \times 50/2 = 50202$ sf
 BOTTOM AREA $104 \times 204/2 + (638 \times 58) + 159 \times 33/2 + 94 \times 44/2 = 39536$ sf

NOTE: POND IS CALCULATED TO INCLUDE UNIT 5
 15.57 ACRES, UNIT #1
 41.50 ACRES, UNIT #2
 56.95 TOTAL ACRES
 PREDEVELOPMENT RUN-OFF = $.15 \times 56.95 \times 43560 = 37416$ C.F.S.
 D.I.E.R. RETENTION REQUIREMENT = $56.95 \times .04 \times 43560 = 99230$ C.F.

ELEVATION	AREA	VOLUME
138.00	28810	3110
139.00	61360	28210
140.00	20170	68940
140.73 WEIR ELEV.	7015	12669
141.00	11850	11810
142.00	2420	11014
142.50	5200	18304

DER TREATMENT
 $0.4 \times 56.95 \times 43560 = 99230$ C.F.
 Perc Rate $15/12 \times 28810 = 36.012$ C.F.
 $99230/36.012 = 2.75$ 45 min bleed down time

PROFILE OF DOG LEG DRIVE

TIME	VOLUME IN	PERCENT	ELEVATION	WEIR DWT	VOLUME RET.
30	80370	8795	140.10	0	0
45	187280	1963	141.00	257	106162
60	180780	21280	141.50	1250	122050
75	181320	45380	141.50	2850	122085
90	205710	45677	142.00	5050	111175
105	218120	52772	142.25	76150	85158

MAXIMUM AT 40 MINUTES: 122083 C.F.
 WEIR OUTFLOW:
 138.00 = 0
 139.00 = 0
 140.00 = 0
 140.73 = 1.53
 142.00 = 14.46

(013) 385-2758
TED G. KAIPAINEN
 PROFESSIONAL ENGINEER
 1310 SHAMROCK DRIVE, SEBRING, FLORIDA, 33670

REVISION	DATE
OWNER	DRAWN BY: FACE
ENGINEER	DATE: 8/11/68

DESIGNED BY	
CHECKED BY	
APPROVED BY	
DATE	

DESIGNED BY	
CHECKED BY	
APPROVED BY	
DATE	