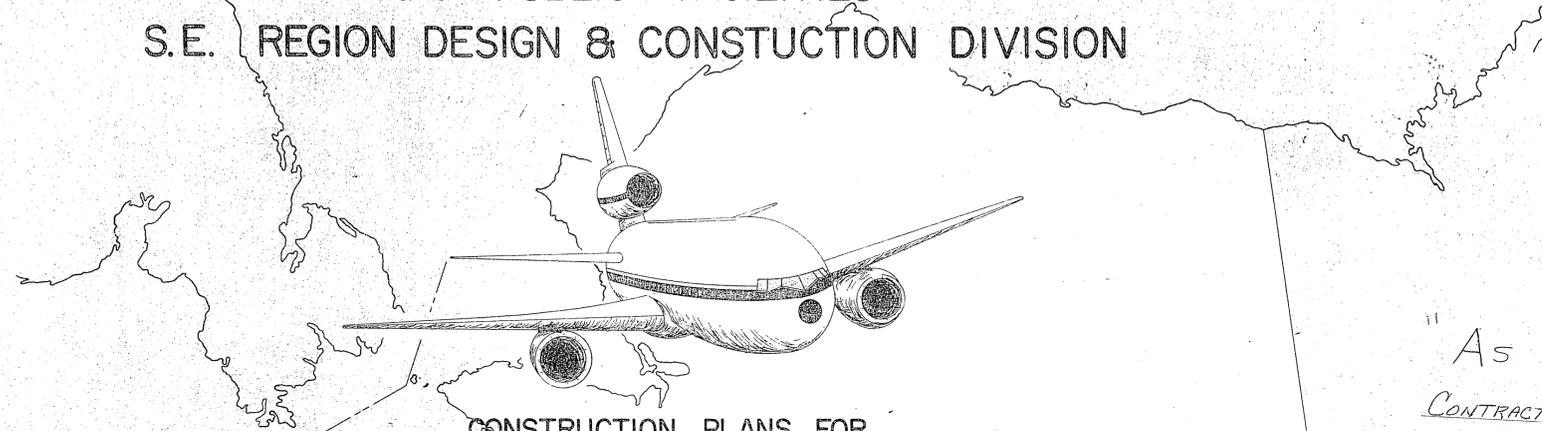


STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
and PUBLIC FACILITIES
S.E. REGION DESIGN & CONSTRUCTION DIVISION



CONSTRUCTION PLANS FOR

KETCHIKAN AIRPORT

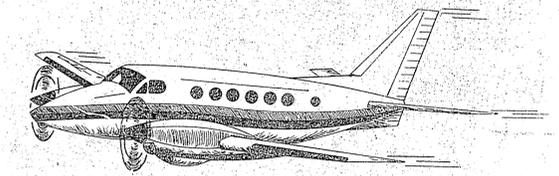
RUNWAY & TAXIWAY OVERLAY

AIRPORT IMPROVEMENT PROGRAM
3-02-0144-01
STATE NO. D-20602

SPONSORED BY
THE STATE OF ALASKA
1984

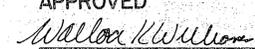
"As BUILTS"

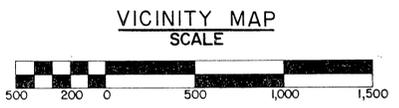
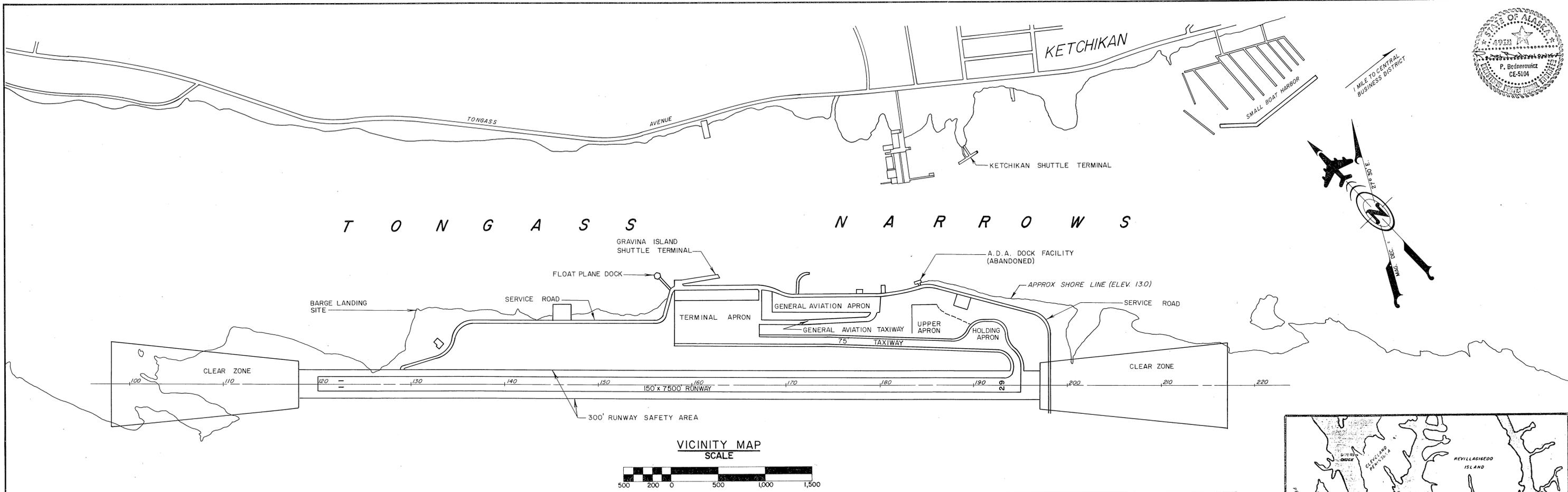
CONTRACTOR: ASSOCIATED SAND & GRAVEL CO., INC.
PROJECT ENGINEER: D.F. ROBBINS
CONSTRUCTION BEGAN: JUNE 12, 1985
CONSTRUCTION COMPLETE: OCTOBER 1, 1985



APPROVED

DONALD D. DIECKMEYER, DIRECTOR, S.E. REGION DESIGN & CONSTRUCTION
DATE 5/29/84

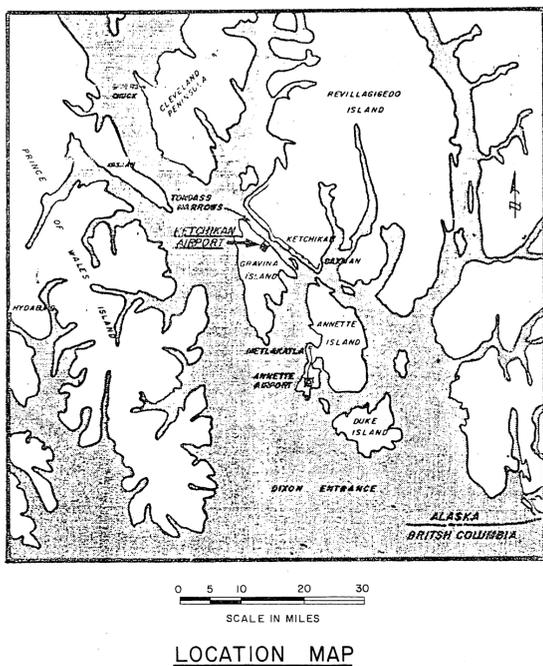
APPROVED

WALLACE K. WILLIAMS, DESIGN CHIEF, S.E. REGION DESIGN
DATE 5/30/84



ESTIMATED QUANTITIES			
NO.	ITEM	UNIT	QUANTITY
100	MOBILIZATION & DEMOBILIZATION	L.S.	ALL REQ'D
125	ENGINEER'S VEHICLE	I	1
130	ENGINEER'S FIELD OFFICE WITH LABORATORY	L.S.	ALL REQ'D
330	UNCLASSIFIED EXCAVATION	L.S.	ALL REQ'D
552	NON-WOVEN GEOTEXTILE FABRIC, PAVING	S.Y.	32,852 31,000
600a	BITUMINOUS PRIME COAT, CUTBACK	TON	7.29 29
610	BITUMINOUS TACK COAT	TON	58.16 133
660a	BITUMINOUS SURFACE COURSE	TON	30,423.92 15,010
660c	ASPHALT CEMENT, AC-5	TON	1,661.89 930
670a	POROUS FRICTION COURSE <i>(Deleted by CO #2)</i>	TON	9,900
670b	ASPHALT CEMENT, AC-20-DN <i>(Deleted by CO #2)</i>	TON	644
700	RUNWAY & TAXIWAY MARKING	L.S.	ALL REQ'D
800	PORTLAND CEMENT CONCRETE	L.S.	ALL REQ'D
280	Runway Grooving <i>(CO #2)</i>	S.Y.	151,898
333a	Preparation For Prime <i>(CO #5)</i>	L.S.	
330b	Additional Apron Grading <i>(CO #5)</i>	L.S.	
330c	Shoulder Repair <i>(CO #5)</i>	L.S.	
660e	Grade Slope Paving <i>(Supp. Apr. #1)</i>	L.S.	
660f	Laser Control <i>(CO #3)</i>	L.S.	
109(i)	DPE & WAC Alignment <i>(CO #6)</i>	L.S.	

INDEX	
SHEET TITLE	SHEET NO.
TITLE SHEET	1
LOCATION, VICINITY MAPS, INDEX & ESTIMATED QUANTITIES	2
SITE PLAN	3
RUNWAY & TAXIWAY TYPICAL SECTIONS	4
HARDSTAND DETAILS	5
RUNWAY CLOSURE PLAN	6
AIRPORT MARKING PLAN	7

BASIS OF ESTIMATE		
ITEM NO.	ITEM	ESTIMATING FACTOR
600a	BITUMINOUS PRIME COAT, MC-30	0.30 gal./sy. at 256 gal./ton
610	BITUMINOUS TACK COAT, CSS-1	0.10 gal./sy. at 241 gal./ton
660a	BITUMINOUS SURFACE COURSE (B.S.C.)	116 lb./sy./in depth
660c	ASPHALT CEMENT, AC-5	6% of ITEM 660a, 0.22 gal./sy. for ITEM 552 at 235 gal./ton
670a	POROUS FRICTION COURSE	116 lb./sy./in depth
670b	ASPHALT CEMENT, AC-20-DN	6.5% of ITEM 670a



STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
S.E. REGION, DIVISION OF AVIATION DESIGN & CONSTRUCTION

KETCHIKAN AIRPORT
A.I.P. 3-02-0144-01
LOCATION, VICINITY MAPS,
INDEX & ESTIMATED QUANTITIES

APPROVED BY: *Walter Williams* 5/23/84
WILLIAMS, K. WILLIAMS, P.E. CHIEF OF DESIGN

APPROVED BY: *Tracy W. Moore* 5-30-84
WILLIAM, BALMGARTNER, P.E. DESIGN CHIEF GROUP B

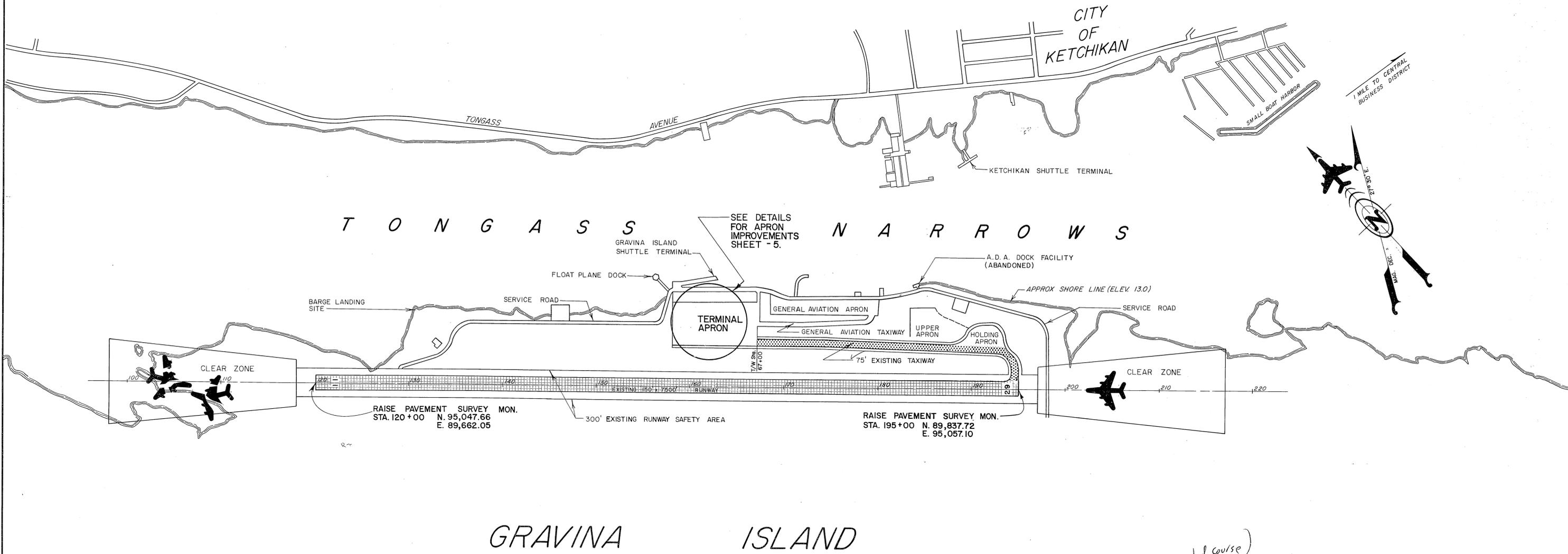
SCALE: AS - SHOWN
DESIGNED: *M.P.C.*
CHECKED: DATE: SHEET 2 OF 7

BY	DATE	CHANGE

REVISIONS



REVILLAGIGEDO ISLAND



SEE DETAILS FOR APRON IMPROVEMENTS SHEET - 5.

GRAVINA ISLAND

NOTE:
SURVEY MONUMENTS AT STA. 120+00, STA. 195+00 SHALL BE PROTECTED AND RAISED AS NECESSARY. THE COST OF ADJUSTING THE MONUMENT SHALL BE INCIDENTAL TO THIS CONTRACT. (SEE DETAIL, SHEET - 5.)

- LEGEND**
- (I) 1/2" LEVELING COURSE & 1" PFC. OVERLAY AND NEW RUNWAY MARKING
 - (II) 1/2" LEVELING COURSE & 1" PFC. OVERLAY AND NEW TAXIWAY MARKING
- Handwritten notes:* "Grooving" and "1/4" finished course" are written near the legend items.



BY	DATE	CHANGE
REVISIONS		

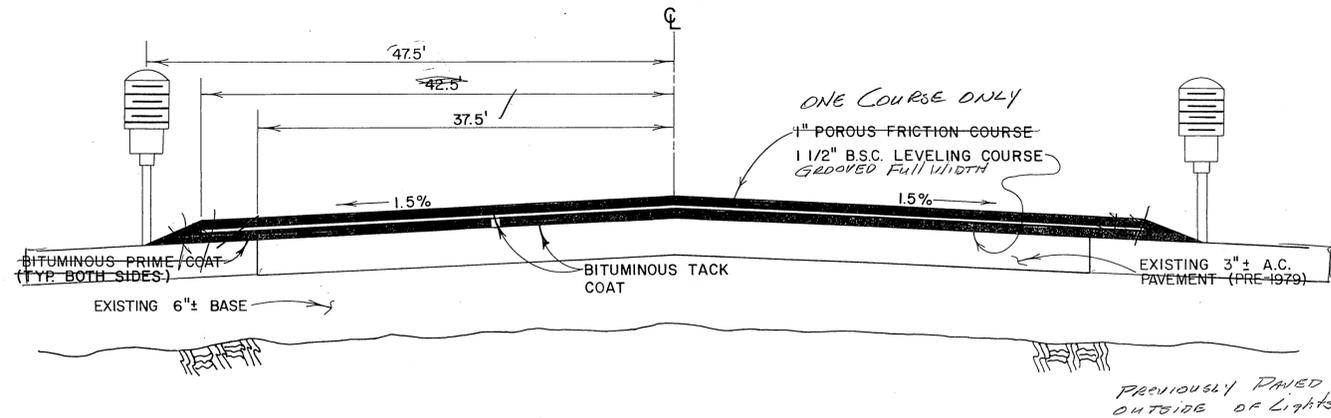
**STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
S.E. REGION, DIVISION OF AVIATION DESIGN & CONSTRUCTION**

**KETCHIKAN AIRPORT
A.I.P. 3-02-0144-01
SITE PLAN**

APPROVED BY: *Wallace K. Williams* 5/30/84
WALLACE K. WILLIAMS, P.E. CHIEF OF DESIGN

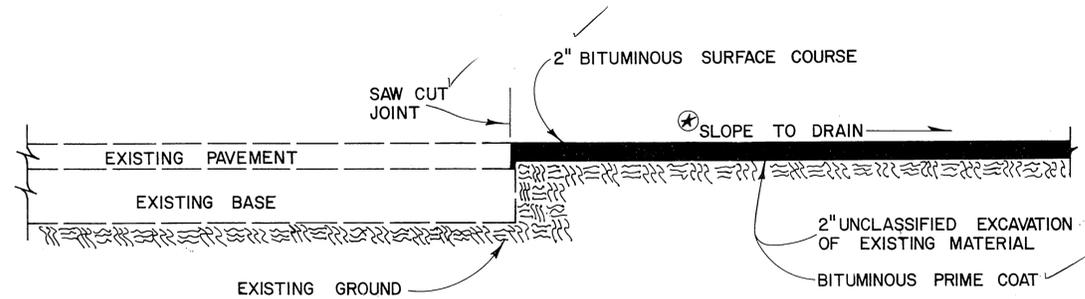
APPROVED BY: *Tracy W. Moore* for 5-30-84
WILLIAM C. BAUMGARTNER, P.E. DESIGN CHIEF GROUP "B"

SCALE: 1" = 500'
DESIGNED: *W.C.B.* DRAWN: *W.C.B.* CHECKED: DATE: SHEET 3 OF 7



TAXIWAY TYPICAL SECTION

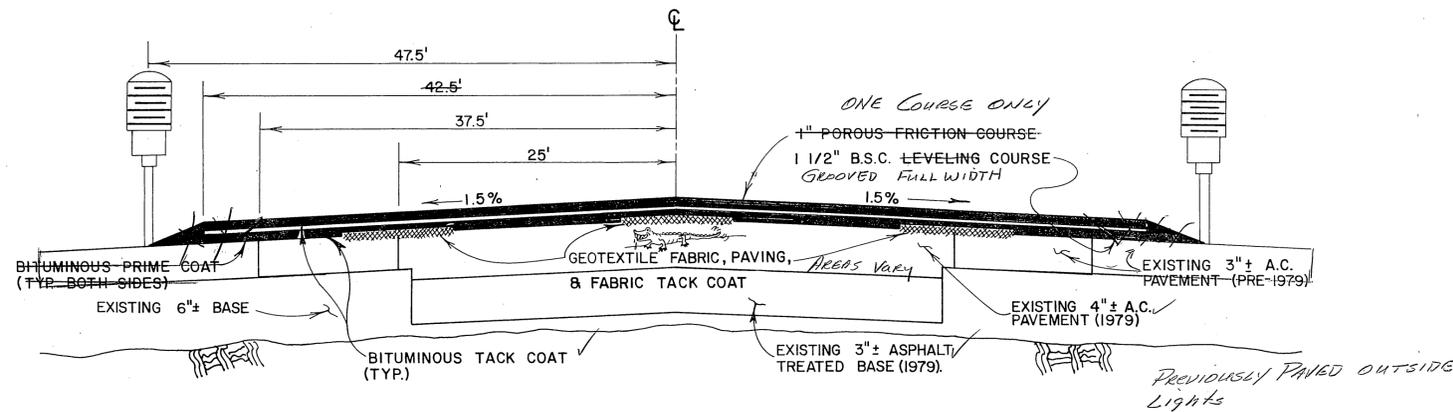
NOT TO SCALE
T/W STA. 67+00 TO 81+50
T/W STA. 94+00 TO RUNWAY



TYPICAL SECTION APRON EXPANSION

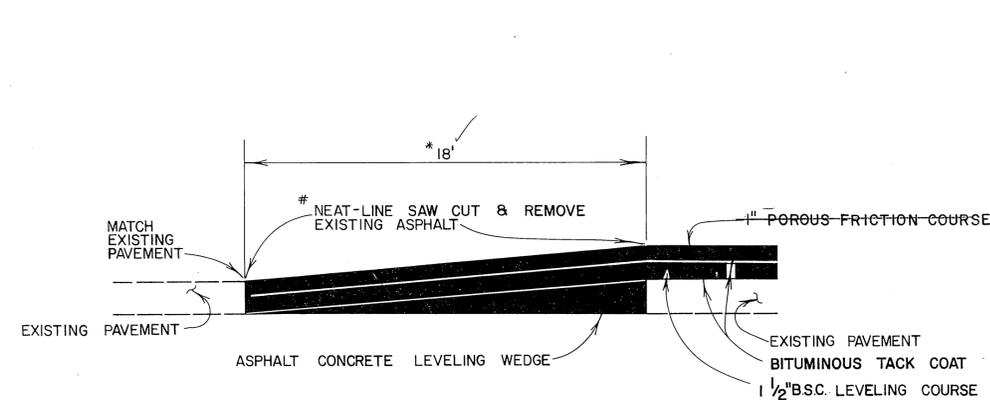
NOT TO SCALE

THE ENGINEER SHALL ESTABLISH GRADE CONTROL TO PROVIDE ADEQUATE DRAINAGE



TAXIWAY TYPICAL SECTION

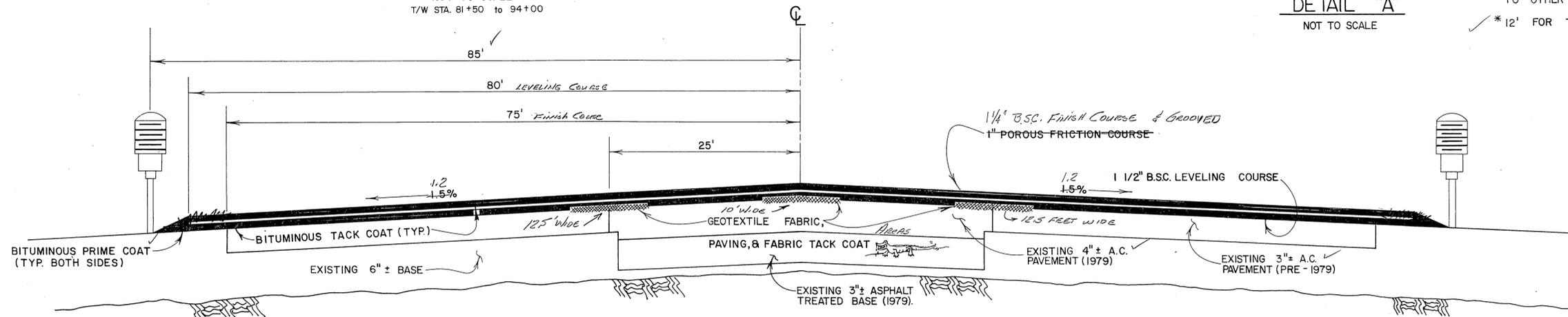
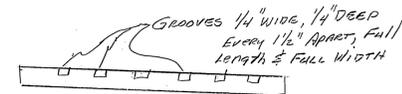
NOT TO SCALE
T/W STA. 81+50 TO 94+00



PAVEMENT TRANSITION TAXIWAY TO APRON DETAIL "A"

NOT TO SCALE

REMOVAL OF THE EXISTING PAVEMENT SHALL BE CONSIDERED INCIDENTAL TO OTHER ITEMS OF WORK.
* 12' FOR TAXIWAY TO HOLDING APRON



RUNWAY TYPICAL SECTION

NOT TO SCALE



ADDITIONAL GEOTEXTILE FABRIC, PAVING & FABRIC TACK COAT SHALL BE APPLIED IN ALLIGATORING OR DISTRESSED AREAS, AS DETERMINED BY THE ENGINEER.

GENERAL NOTES

- The contractor shall be responsible for checking the cross slope of the runway so that the cross slope shall be at 1.5%.
- Fabric widths along joints shall be 10ft.
- The can cover to the threshold lights shall be adjusted flush with the pavement. The costs for adjusting threshold lights shall be incidental.
- B.S.C. = Bituminous Surface Course

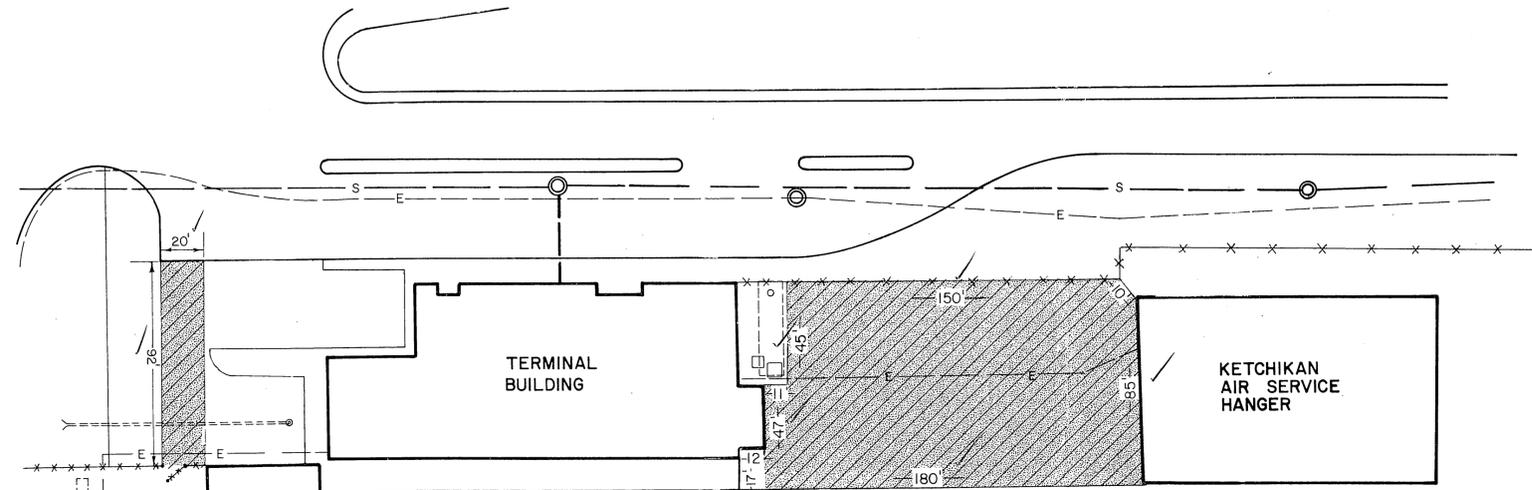
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
S.E. REGION, DIVISION OF AVIATION DESIGN & CONSTRUCTION

KETCHIKAN AIRPORT
A.I.P. 3-02-0144-01
TYPICAL SECTIONS

APPROVED BY:	Wallace K. Williams 5/30/84 WALLACE K. WILLIAMS PE CHIEF OF DESIGN
APPROVED BY:	Tracy W. Moore for 5-30-84 WILLIAM G. BAUMGARTNER PE DESIGN CHIEF GROUP "B"
SCALE:	NO SCALE
CHECKED:	DATE: <u> </u>
DRAWN:	<u> </u>
DESIGNED:	<u> </u>
DATE:	<u> </u>

BY	DATE	CHANGE

REVISIONS



PLAN
HARDSTAND ADDITION
APRON PAVING ADDITION
NOT TO SCALE

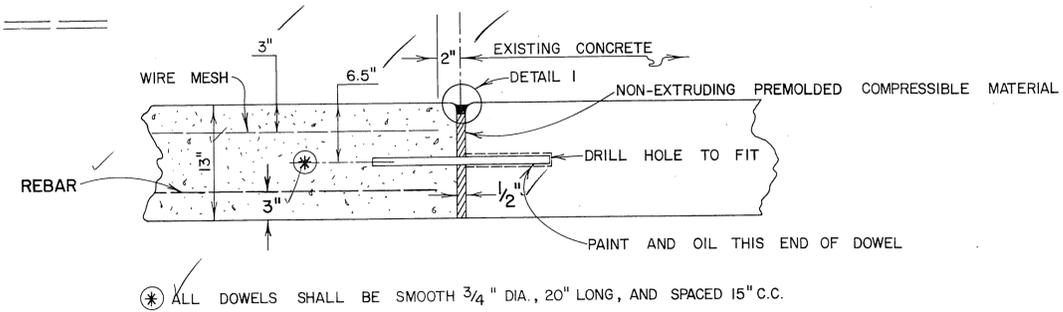
LEGEND



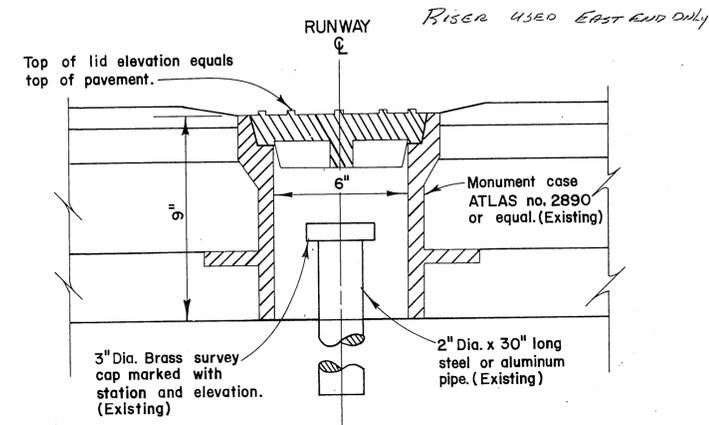
NEW CONCRETE SLAB



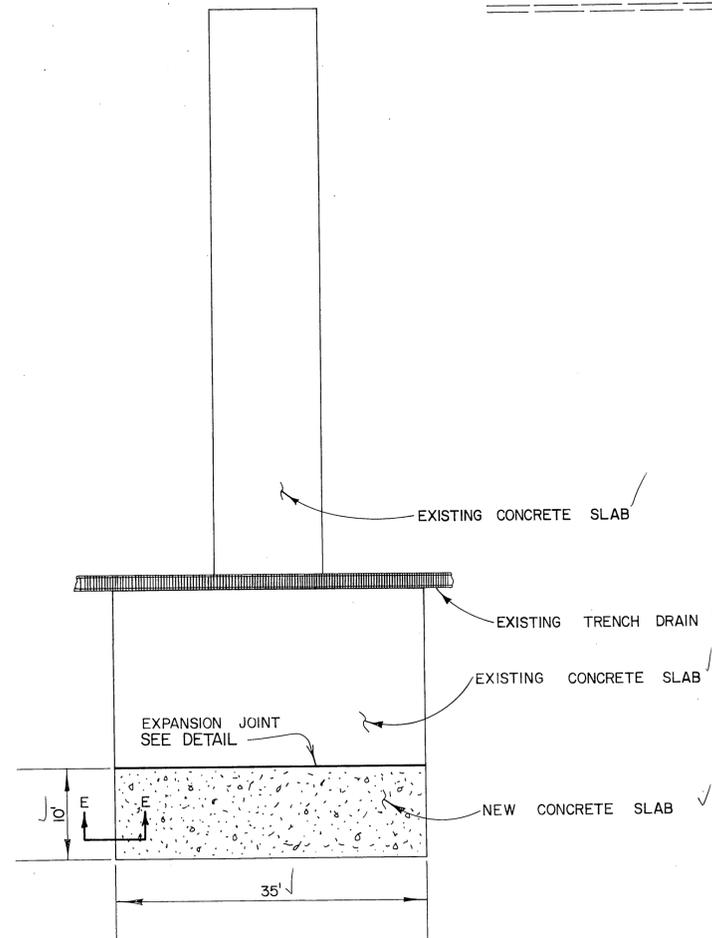
APRON & ACCESS ROAD PAVING
(DIMENSIONS SHOWN ARE APPROX. ONLY)



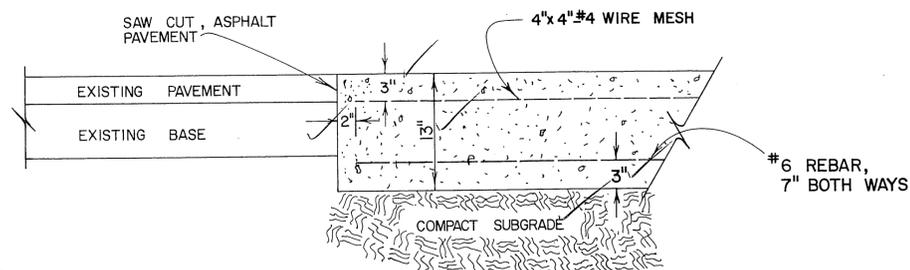
EXPANSION JOINT
NOT TO SCALE



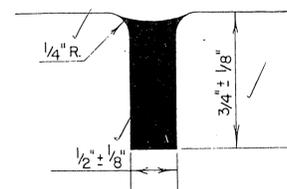
SURVEY MONUMENT DETAIL
1" = 3"



PLAN - HARDSTAND ADDITION
NOT TO SCALE



SECTION E-E
NOT TO SCALE



*DETAIL I
NOT TO SCALE

*SEE SPECIAL PROVISION 800.10.

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
S.E. REGION, DIVISION OF AVIATION DESIGN & CONSTRUCTION

KETCHIKAN AIRPORT
A.I.P. 3-02-0144-01
DETAILS

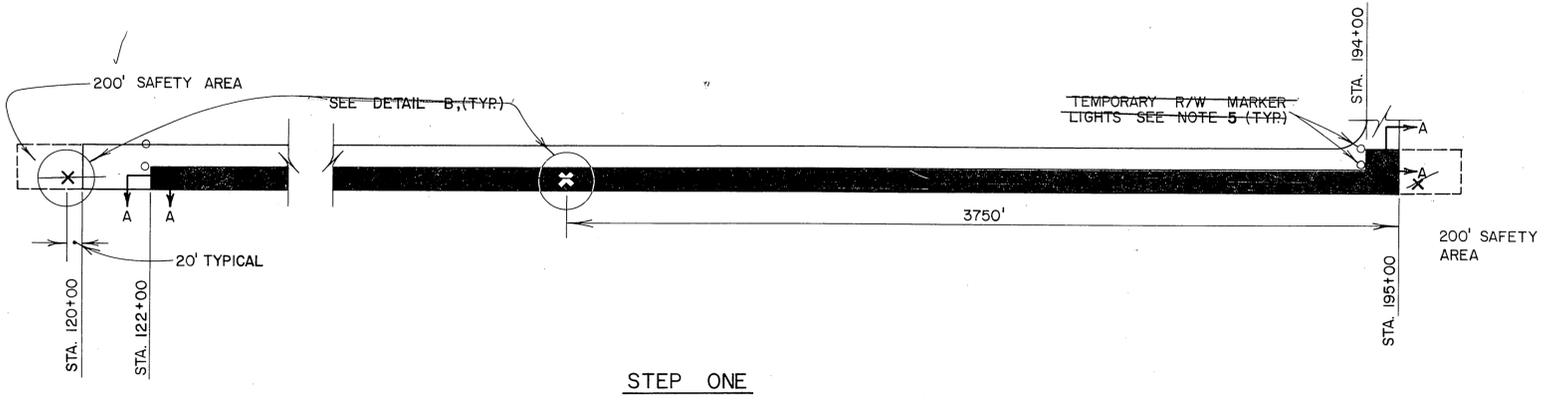
APPROVED BY:	<i>Wallace K. Williams</i> 5/30/84 WALLACE K. WILLIAMS P.E. CHIEF OF DESIGN		
APPROVED BY:	<i>Tracy W. Moore</i> for 5-30-84 WILLIAM C. BAUMGARTNER P.E. DESIGN CHIEF GROUP "B"		
BY	DATE	CHANGE	REVISIONS
SCALE:	AS SHOWN	DESIGNED:	CHECKED:
		DATE:	
			SHEET 5 OF 7



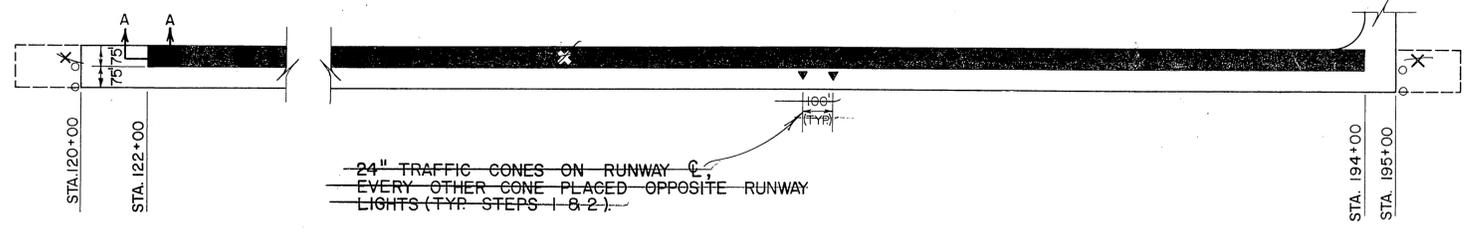
NOTES

1. ~~RUNWAY NUMBERS SHALL BE REMOVED IMMEDIATELY UPON CLOSURE. ALL OTHER MARKINGS SHALL BE RETAINED AS LONG AS POSSIBLE.~~
2. ~~THE 24" TRAFFIC CONES SHALL BE CENTERED ON THE RUNWAY & TAXIWAY EXCEPT WHEN THIS LOCATION INTERFERES WITH THE WORK.~~
3. ~~THE "X" MARKING (DETAIL B) SHALL BE MADE OF A SUITABLE MATERIAL TO RESIST RAIN, AND JET BLAST DAMAGE. PAINT SHALL NOT BE ALLOWED ON NEW A.C. PAVEMENT OR FOG SEAL.~~
4. THE CONTRACTOR SHALL LIMIT ALL VEHICLE OPERATIONS ON THE RUNWAY TO ONLY THAT SIDE OF CENTERLINE BEING WORKED ON. DURING WORK ON THE NORTHERN MOST 200' OF RUNWAY, VEHICLE OPERATIONS SHALL BE RESTRICTED TO THE GRAVEL SHOULDERS, OUTSIDE OF THE RUNWAY LIGHTS.
5. ~~TEMPORARY RUNWAY END LIGHTS SHALL BE PLACED AS SPECIFIED IN SPECIAL PROVISIONS.~~ *All Lights were kept Active*
6. THE TEMPORARY RAMP SHALL BE PLACED TO ALLOW AIRCRAFT ACCESS ON THE NEWLY PLACED OVERLAY PRIOR TO OPENING THE SECTION FOR TRAFFIC. MATERIAL SHALL BE MEASURED FOR PAYMENT UNDER SECTION 660
7. THE TEMPORARY RAMP SHALL BE REMOVED PRIOR TO PLACEMENT OF THE ADJOINING OVERLAY. THE REMOVAL IS INCIDENTAL.

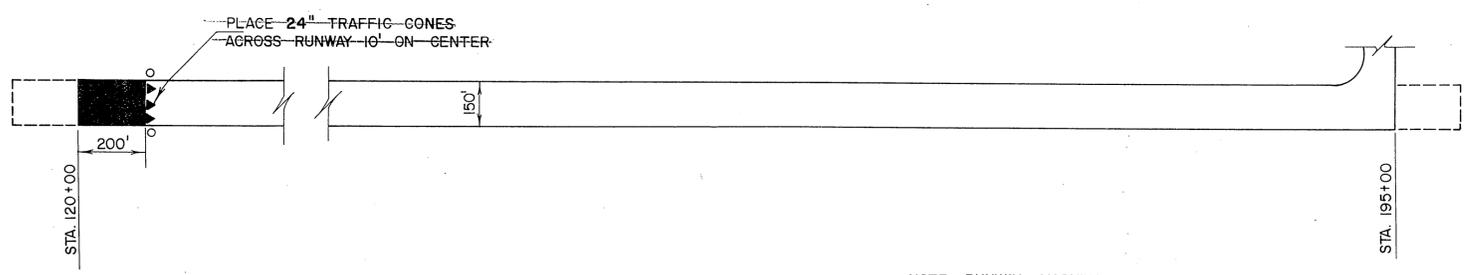
Runway was closed to all aircraft over 12,500 lbs. during actual work hours and open full width, full length during the days and when the contractor was not working.



STEP ONE

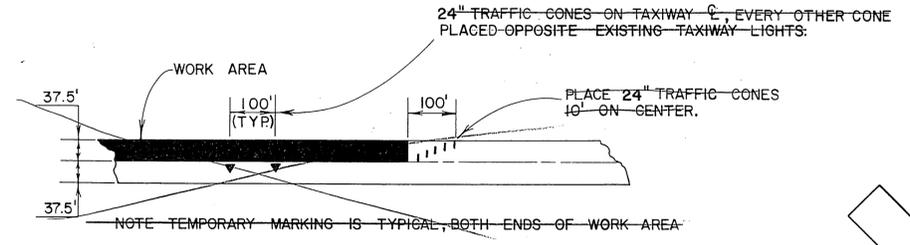


STEP TWO

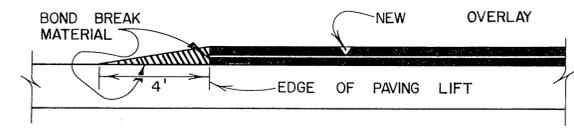


STEP THREE

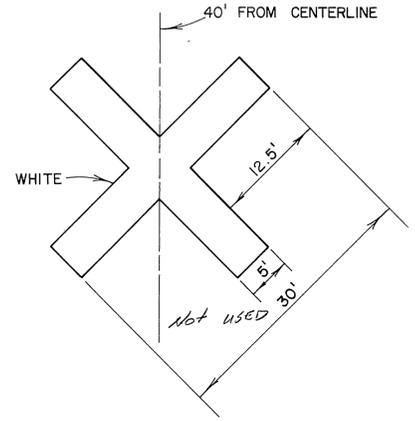
RUNWAY CLOSURE
NOT TO SCALE



TAXIWAY CLOSURE
NOT TO SCALE



SECTION A-A TEMPORARY RAMP
FOR HEAVY AIRCRAFT ACCESS ON TO OVERLAY
NOT TO SCALE



DETAIL "B"
1" = 10'

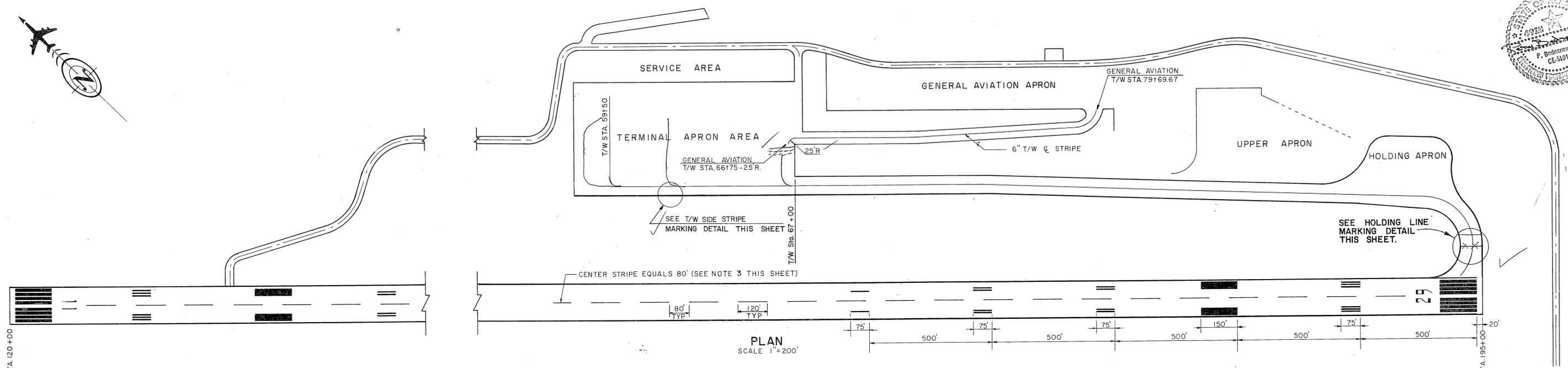
BY	DATE	CHANGE
REVISIONS		

**STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
S.E. REGION, DIVISION OF AVIATION DESIGN & CONSTRUCTION**

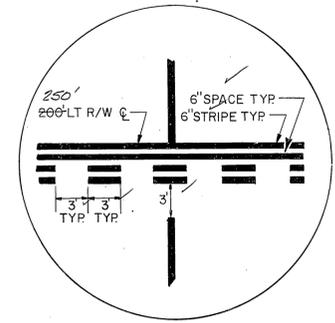
**KETCHIKAN AIRPORT
A.I.P. 3-02-0144-01
RUNWAY CLOSURE**

APPROVED BY:	<i>Wallace K. Williams</i> 5/30/84 WALLACE K. WILLIAMS, P.E. CHIEF OF DESIGN
APPROVED BY:	<i>Tracy W. Moore</i> 5-30-84 for WILLIAM U. BAUMGARTNER, P.E. DESIGN CHIEF GROUP "B"
SCALE:	AS SHOWN
DESIGNED:	DATE: <i>MRC</i>
CHECKED:	DATE:
DRAWN:	DATE:

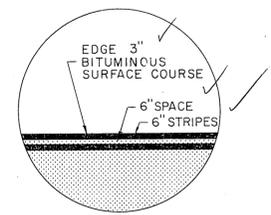
SHEET 6 OF 13



PLAN
SCALE 1" = 200'

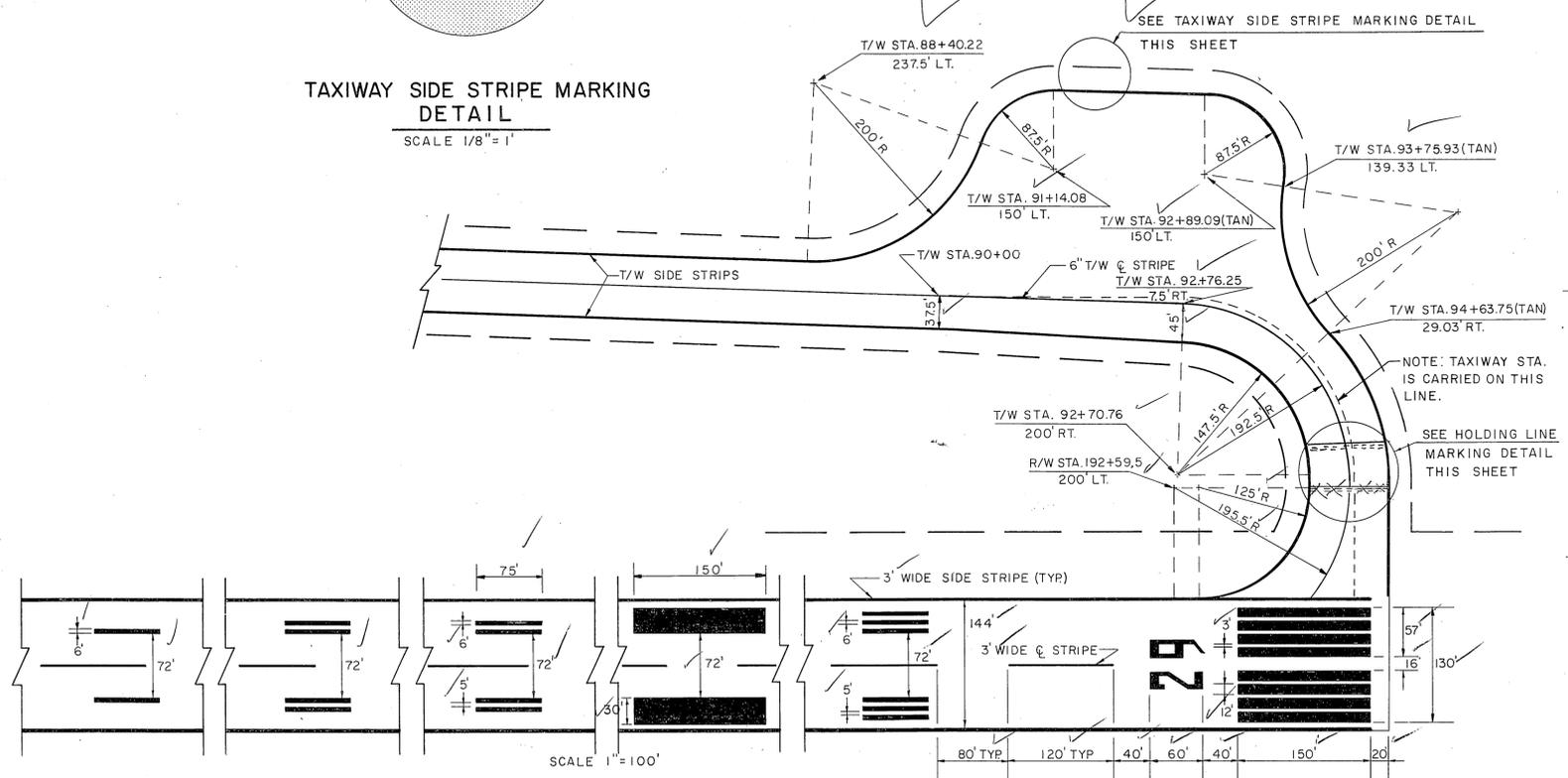


HOLDING LINE MARKING
DETAIL
SCALE 1/8" = 1'

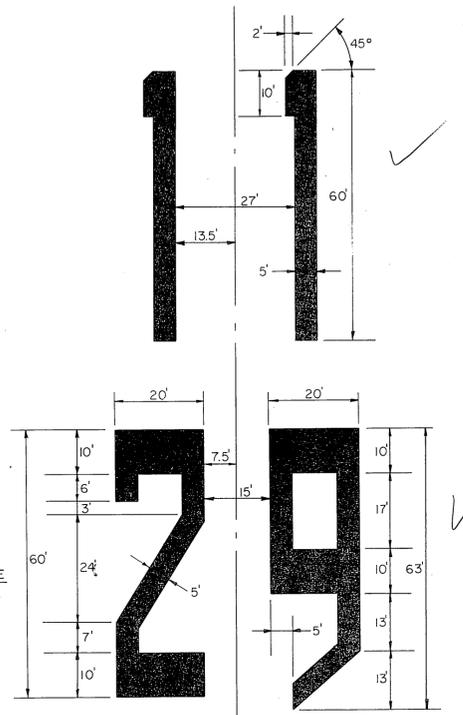


TAXIWAY SIDE STRIPE MARKING
DETAIL
SCALE 1/8" = 1'

- NOTE**
1. ALL RUNWAY MARKINGS SHALL BE WHITE.
 2. ALL TAXIWAY MARKINGS SHALL BE YELLOW.
 3. THE R/W C STRIPPING SHALL BE PAINTED FROM BOTH ENDS TOWARD THE CENTER.



NOTE: ALL RUNWAY DIMENSIONS AND MARKINGS ARE TYPICAL OF BOTH ENDS OF THE RUNWAY



NUMERAL DETAILS
SCALE 1" = 20'

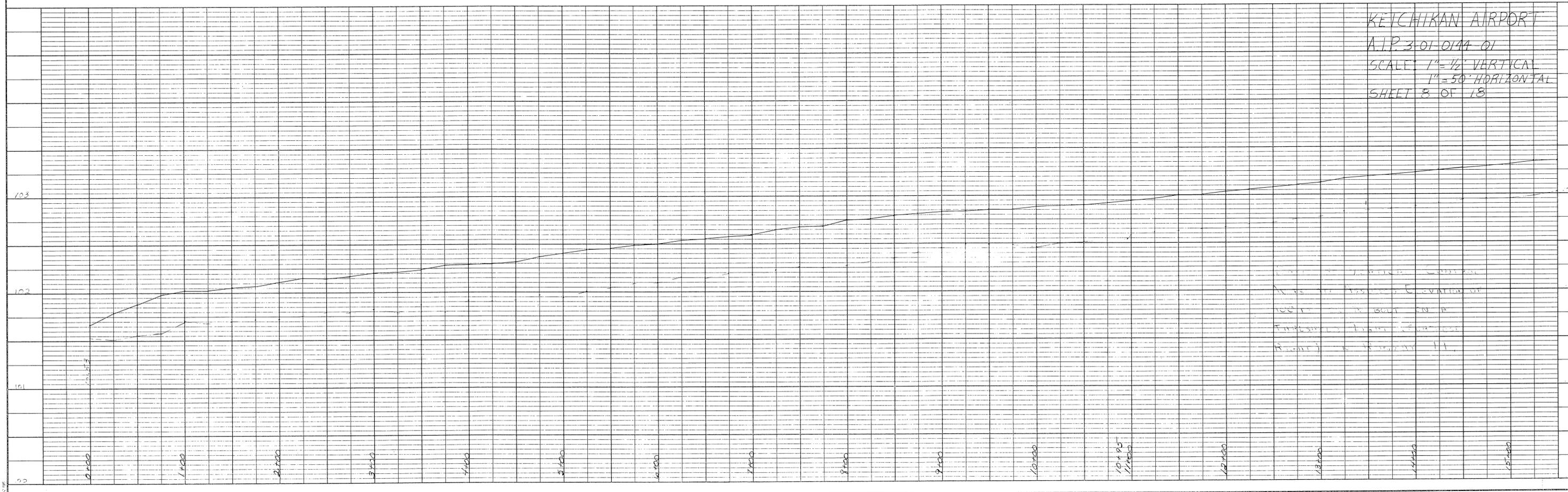
STATE OF ALASKA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF AVIATION

KETCHIKAN AIRPORT
A.I.P. 3-02-0144-01
AIRPORT MARKING PLAN

APPROVED	<i>Wallace K. Williams</i> 5/30/84 WALLACE K. WILLIAMS, P.E. CHIEF OF DESIGN	
DESIGNED	<i>Tracy W. Moore</i> 5-30-84 FR WILLIAM & BAUMGARTNER, P.E. DESIGN CHIEF GROUP "R"	
BY	DATE	CHANGE
AS SHOWN	CHECKED	REVISIONS
	DATE 5/11/73	SHEET 7 OF 7

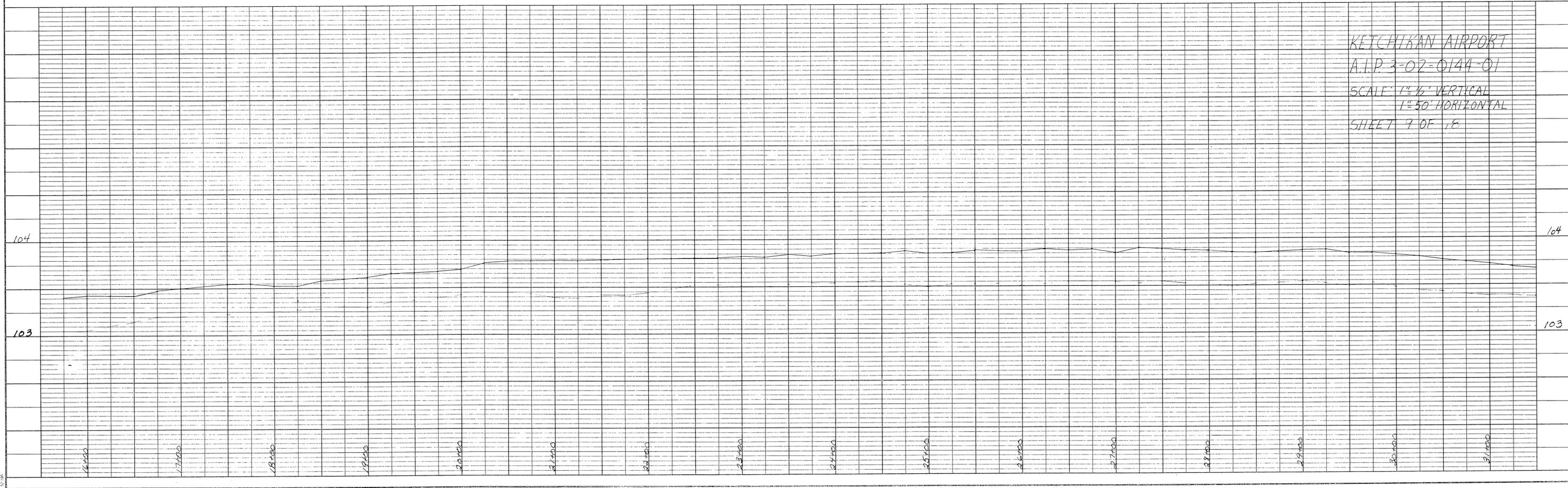
PLAN	SURVEYED	BY	DATE
	NOTE BOOK NO.		
	ALIGNED CHECKED		
	RT. OF WAY CHECKED		

PROFILE	GRADES	BY	DATE
	NOTE BOOK NO.		
	GRADES CHECKED		
	B. M.'S NOTED		
	STRUCTURE NOTATIONS CHECKED		



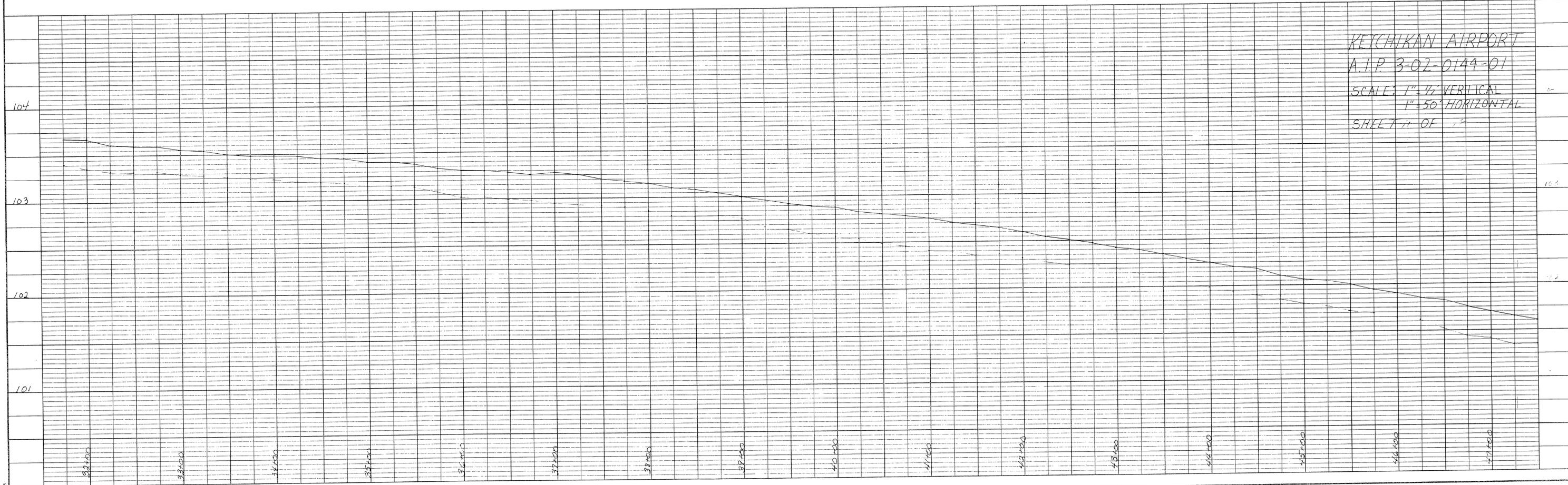
PLAN	SURVEYED	BY	DATE
	PLOTTED		
NOTE BOOK NO.	ALIGNMENT CHECKED		
	RT. OF WAY CHECKED		

PROFILE	GRADES CHECKED	BY	DATE
	STRUCTURE NOTATIONS CHECKED		
NOTE BOOK NO.	B. M. S. NOTED		



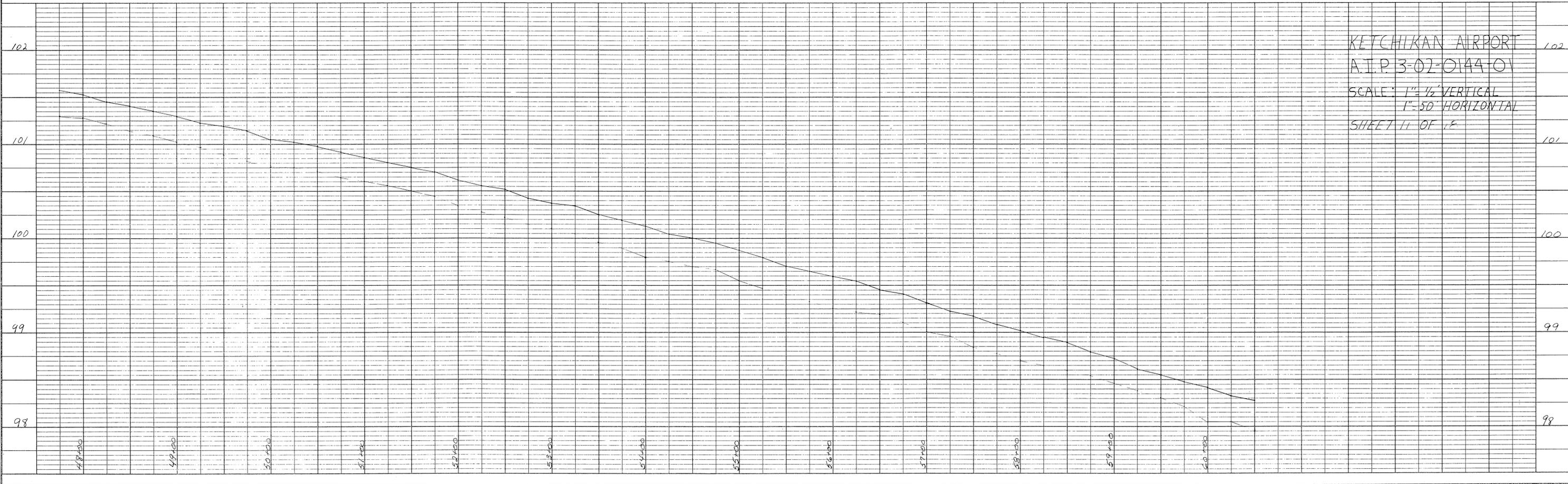
PLAN	DATE	BY
	NO.	NO.
SURVEYED		
NOTE BOOK		
ALIGNMENT CHECKED		
RT. OF WAY CHECKED		

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



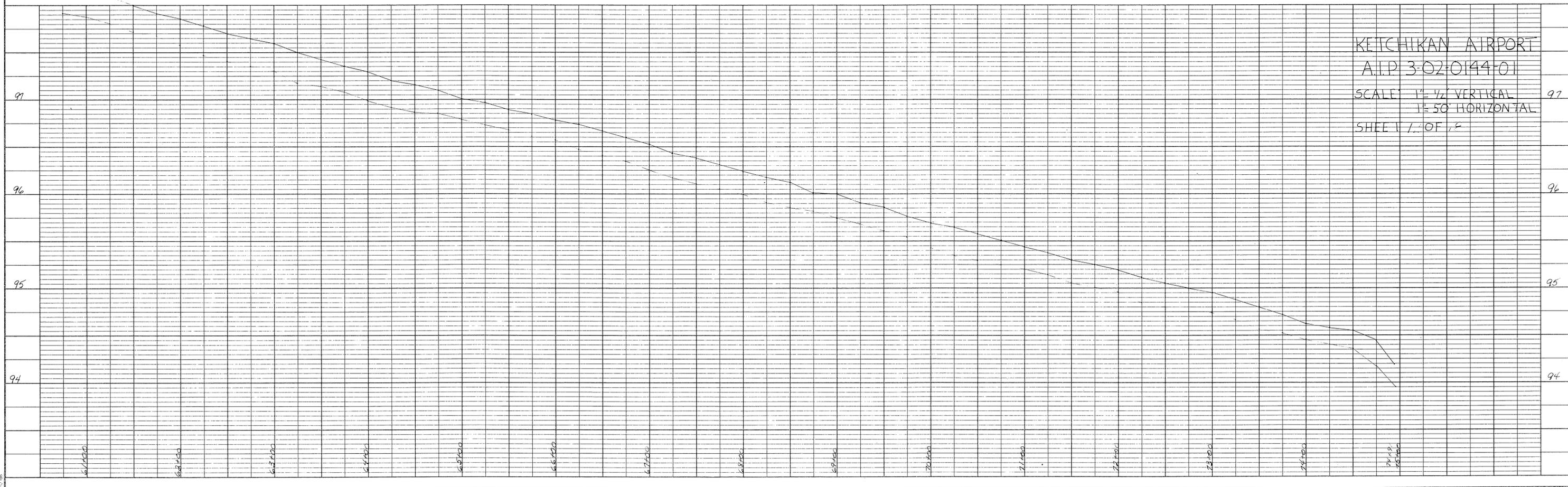
PLAN	SURVEYED	DATE
	BY	
NOTE BOOK NO.	GRADES CHECKED	
	ALIGNMENT CHECKED	
	RT. OF WAY CHECKED	

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



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

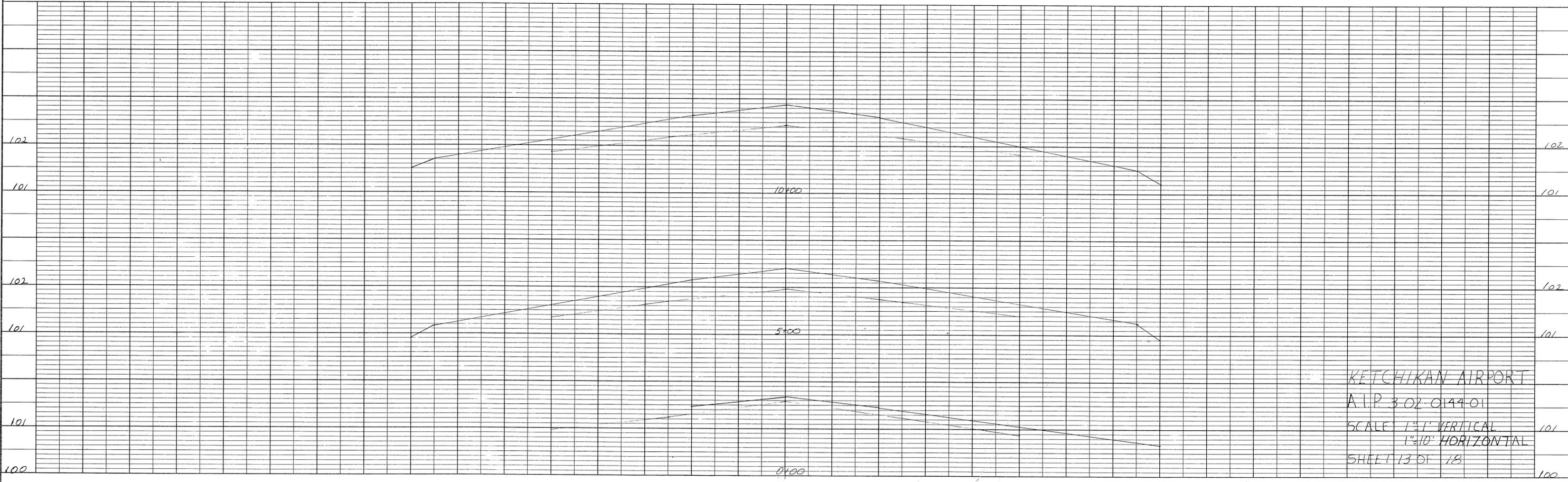
PROFILE	SURVEYED	BY	DATE
	PLOTTED		
NOTE BOOK NO.	GRADES CHECKED		
	STRUCTURE NOTATIONS CHECKED		



KETCHIKAN AIRPORT
 A.I.P. 3-02-0144-01
 SCALE: 1" = 1/2' VERTICAL
 1" = 50' HORIZONTAL
 SHEET 1 OF 18

PLAN	SURVEYED	BY	DATE
	NOTE BOOK NO.	PLOTTED	
	ALIGNMENT CHECKED		
	BY		
	NO. OF WAYS CHECKED		

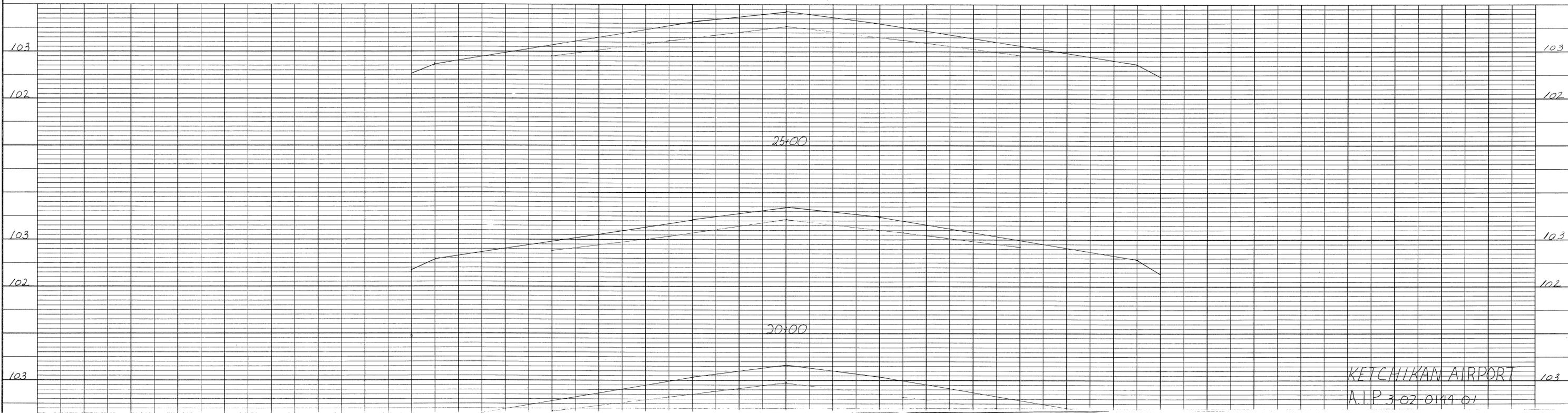
PROFILE	SURVEYED	BY	DATE
	NOTE BOOK NO.	PLOTTED	
	STRUCTURE NOTATIONS CHECKED		
	BY		



KETCHIKAN AIRPORT
 A.P. 3 02 0144 01
 SCALE 1"=1' VERTICAL
 1"=10' HORIZONTAL
 SHEET 13 OF 18

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

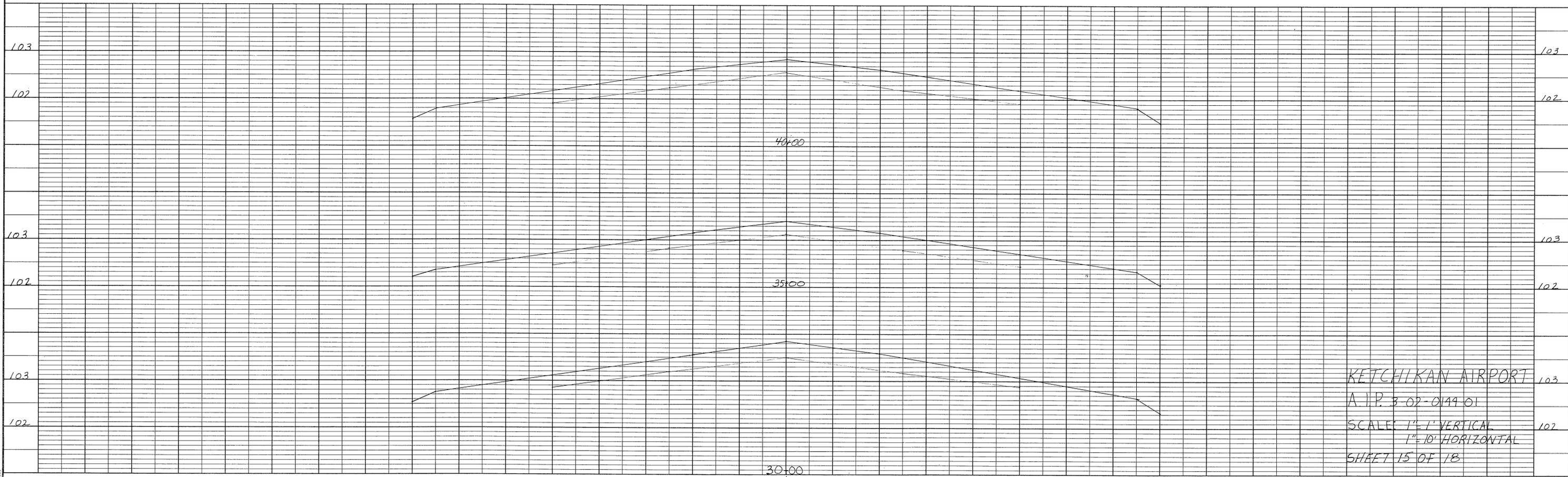
PROFILE	SURVEYED	BY	DATE
	NOTE BOOK NO.	GRADES CHECKED	
		STRUCTURE NOTATIONS CHECKED	



KETCHIKAN AIRPORT
A.I.P. 3-02-0199-01

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

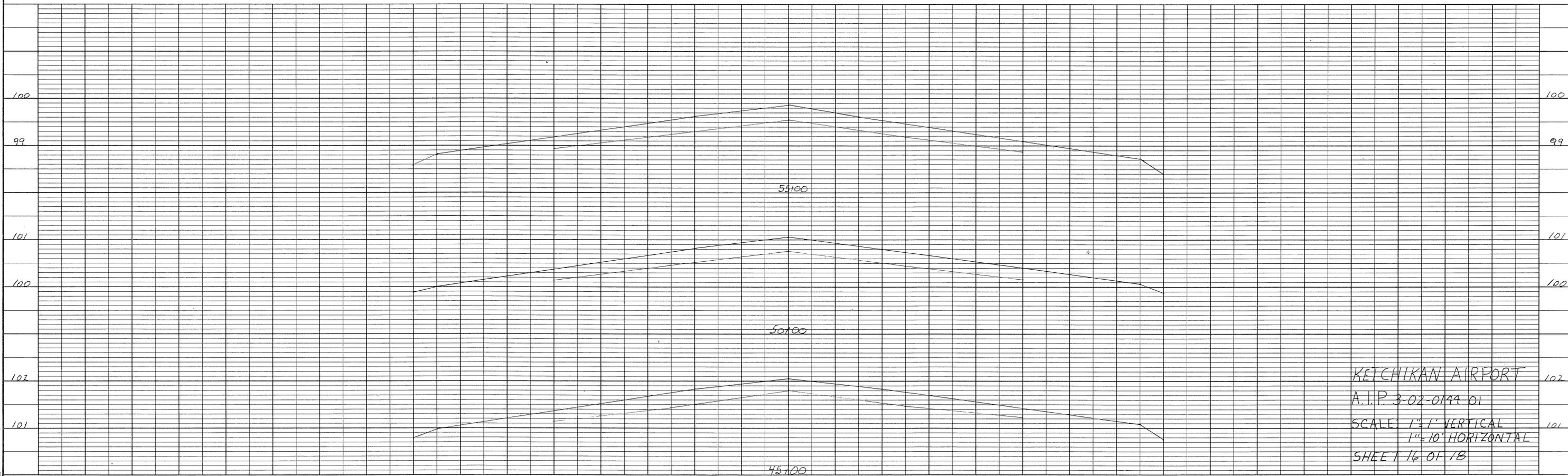
PROFILE	SURVEYED	BY	DATE
	PLOTTED		
NOTE BOOK NO.	GRADES CHECKED		
	STRUCTURE NOTATIONS CH'GD		



KETCHIKAN AIRPORT
 A.I.P. 3 02-0149 01
 SCALE 1" = 1' VERTICAL
 1" = 10' HORIZONTAL
 SHEET 15 OF 18

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

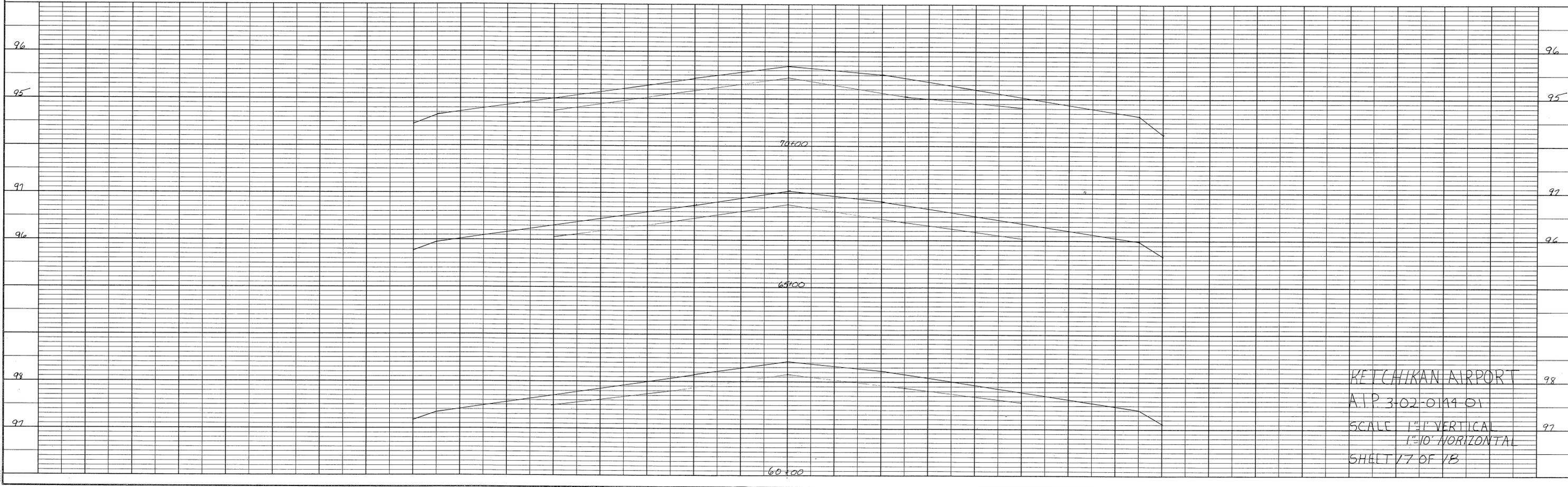
PROFILE	SURVEYED	BY	DATE
	PLOTTED		
NOTE BOOK NO.	GRADES	CHECKED	
	STRUCTURE	NOTATION	CHECKED



KEICHIKAN AIRPORT
 A.I.P. 3-02-0199 01
 SCALE 1" = 1' VERTICAL
 1" = 10' HORIZONTAL
 SHEET 16 OF 18

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

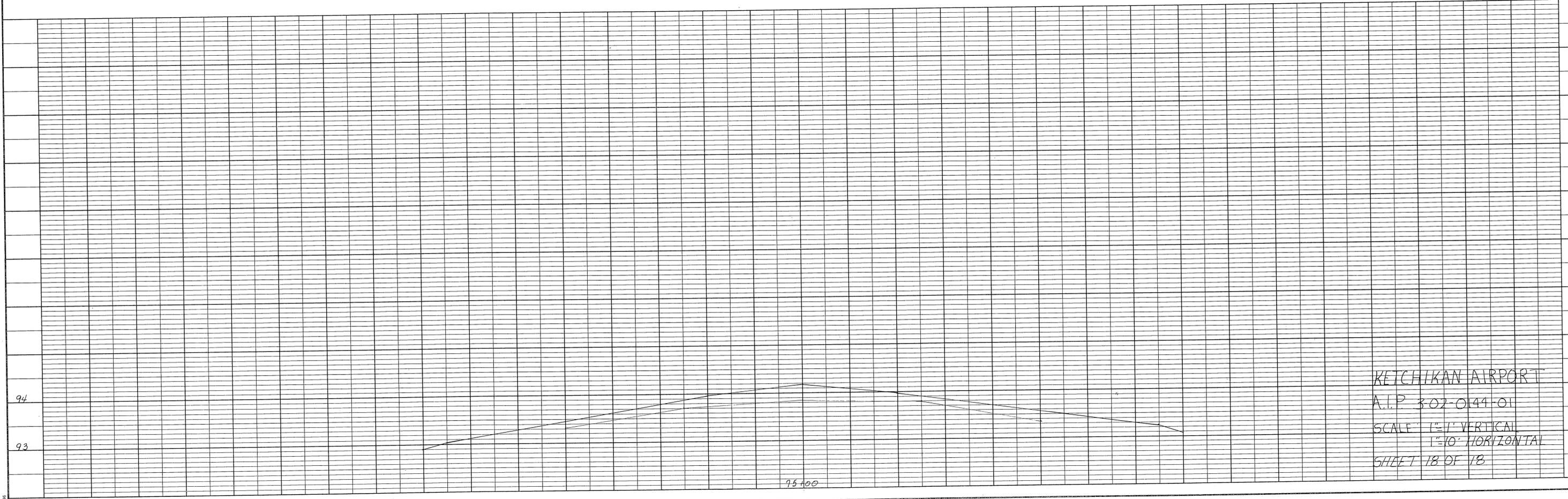
PROFILE	SURVEYED	DATE
	PLOTTED	BY
NOTE BOOK NO.	GRADES CHECKED	
	STRUCTURE NOTATIONS CHKD	



KETCHIKAN AIRPORT
 A.P. 3-02-0114-01
 SCALE 1"=1' VERTICAL
 1"=10' HORIZONTAL
 SHEET 77 OF 18

PLAN	SURVEYED	DATE
	PLOTTED	BY
	ALIGNMENT CHECKED	
	RT. OF WAY CHECKED	
NO.		

PROFILE	SURVEYED	DATE
	PLOTTED	BY
	GRADES NOTED	
	STRUCTURE NOTATIONS CHECKED	
NO.		



KETCHIKAN AIRPORT 94
 A.I.P. 302-0144-01
 SCALE 1"=10' VERTICAL 93
 1"=10' HORIZONTAL
 SHEET 18 OF 18