

CONSTRUCTION PLANS FOR
EKWOK AIRPORT
RUNWAY EXTENSION AND RESURFACING

PROJECT D11512

1983

A.I.P. NO. 83-1-3-02-0088-01-83

SPONSORED BY THE STATE OF ALASKA

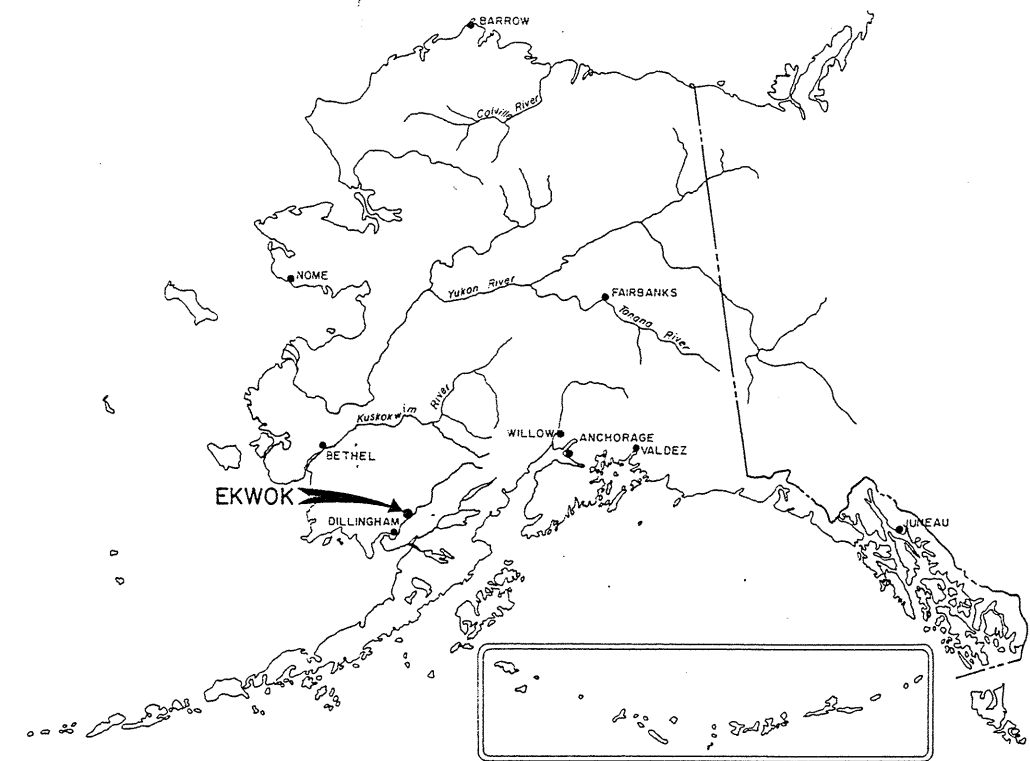
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION and PUBLIC FACILITIES
AVIATION DESIGN & CONSTRUCTION CENTRAL REGION

AS-BUILT

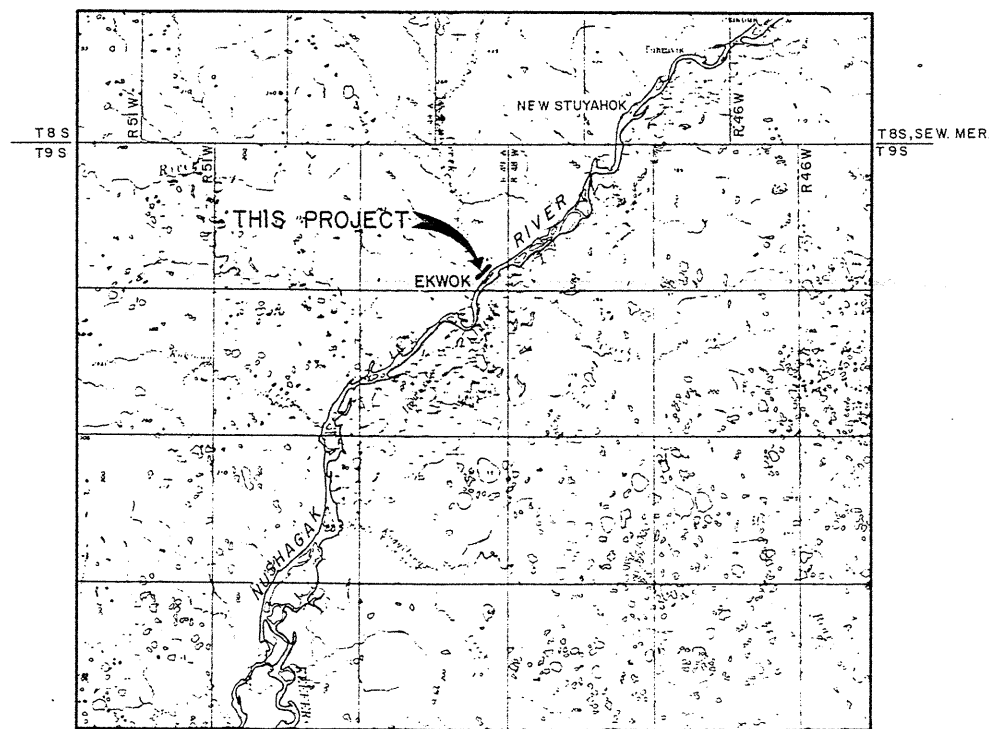
APPROVED Tommy Gene Heinrich DATE 5-3-85
TOMMY GENE HEINRICH, P.E. CHIEF OF CONSTRUCTION

APPROVED William A. Allison DATE 5-5-83
WILLIAM A. ALLISON, P.E. CHIEF ENGINEER

APPROVED Richard S. Armstrong DATE 5-5-83
RICHARD S. ARMSTRONG, P.E. DIRECTOR



LOCATION MAP
NO SCALE



VICINITY MAP
SCALE: 1"=4 MILES

ESTIMATED QUANTITIES

No.	ITEM	QUANTITY	UNIT
100	MOBILIZATION AND DEMOBILIZATION	ONE JOB	LUMP SUM
125	ENGINEER'S VEHICLE	1 EACH	LUMP SUM
130	ENGINEER'S FIELD OFFICE WITH LABORATORY	ONE JOB	LUMP SUM
140	EQUIPMENT STORAGE BUILDING	ONE JOB	LUMP SUM
△ 200a	CLEARING	30	ACRES
330a	UNCLASSIFIED EXCAVATION	25,690	CU. YD.
330d	BORROW EMBANKMENT	22,792	CU. YD.
△ 400	CORRUGATED METAL PIPE	140	LIN. FOOT
411	CULVERT THAW WIRE	ONE JOB	LUMP SUM
540	AGGREGATE SURFACE COURSE (CRUSHED)	7,693	CU. YD.
710	RUNWAY SAFETY AREA BOUNDARY MARKERS	4	EACH
720	WINDCONE (UNLIGHTED)	2	EACH
721	SEGMENTED CIRCLE	1	EACH
730b	REFLECTIVE MARKERS - TYPE II	56	EACH
900	SEEDING	12.09	ACRES
△ 210	HAND CLEARING	4.8	ACRES

DUMPSITE ROAD SUPPLEMENTAL AGREEMENT NO.1 (NON-A.I.P.)

150a	EQUIPMENT RENTAL TRUCK	66.5	HOURS
150b	EQUIPMENT RENTAL TRUCK	66.5	HOURS
150c	EQUIPMENT RENTAL TRUCK	45.5	HOURS
150d	EQUIPMENT RENTAL LOADER	74.5	HOURS
150e	EQUIPMENT RENTAL D-6 DOZER	77.5	HOURS
150f	EQUIPMENT RENTAL 14-G GRADER	12.5	HOURS
155a	LABOR PERSONNEL	60.0	HOURS
155b	SURVEYOR	4	HOURS
400	24" CMP	0	LIN. FT.

INDEX

SHEET TITLE	SHEET No.
TITLE SHEET	1
LOCATION AND VICINITY MAPS, ESTIMATED QUANTITIES AND INDEX	2
PROJECT LAYOUT PLAN	3
TYPICAL SECTIONS, RETROREFLECTIVE MARKERS AND TAXIWAY AND APRON GRADING PLAN	4
PLAN AND PROFILE STA 10+00 TO STA 30+00	5
PLAN AND PROFILE STA 31+00 TO STA 42+00	6
DITCH PLAN AND CULVERT DETAILS	7
EQUIPMENT STORAGE BUILDING PAD AND DETAILS	8
WINDCONE, SEGMENTED CIRCLE AND RUNWAY BOUNDARY MARKER DETAILS	9
RUNWAY CROSS-SECTIONS	10-14 (DELETED)
APRON CROSS-SECTIONS	15 (DELETED)

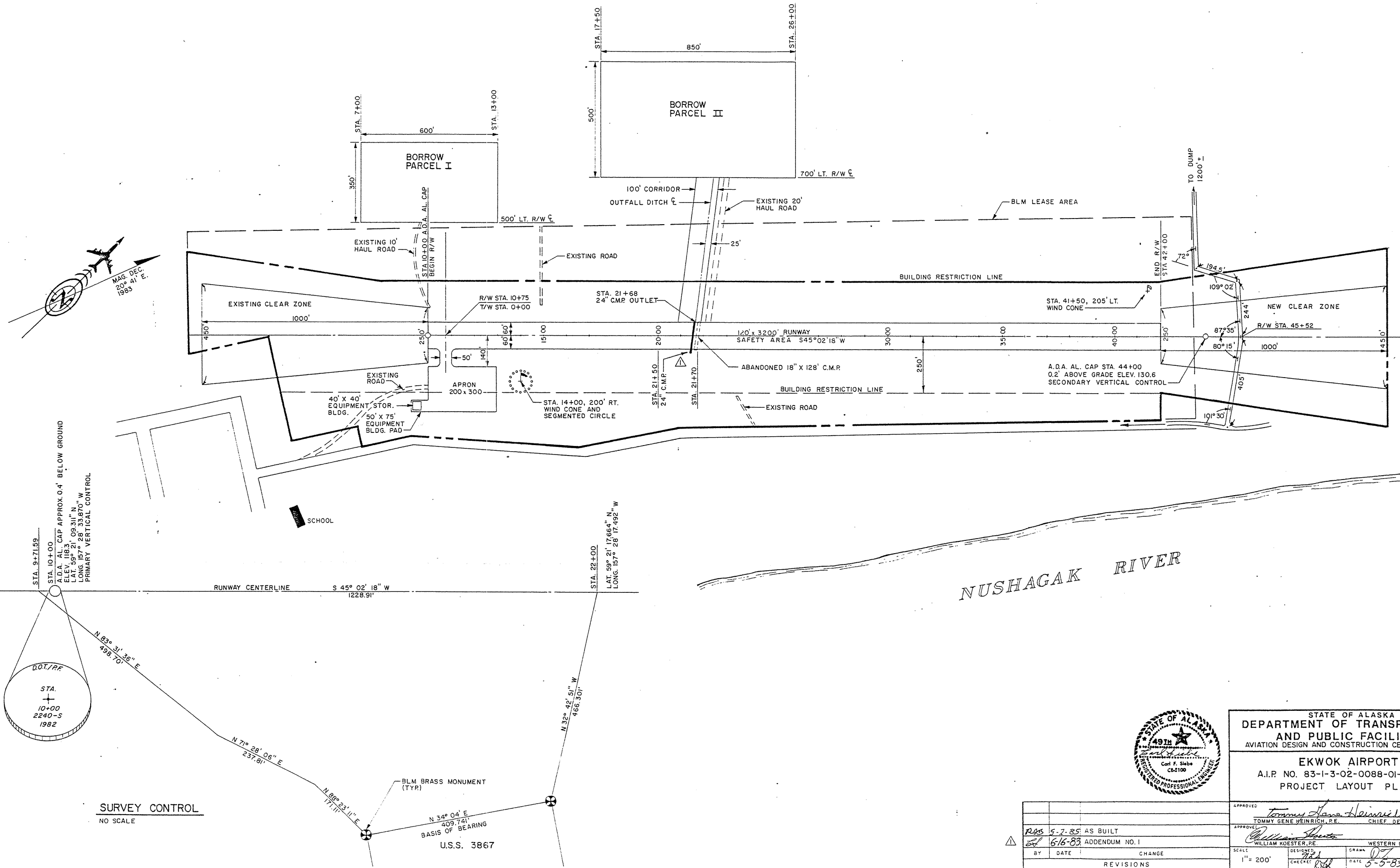
NOTE:

CHANGE ORDER NO.1 EXECUTED TO REDUCE PRICE FOR:
ITEM 140 EQUIPMENT STORAGE BUILDING
ITEM 540 AGGREGATE SURFACE COURSE
DUE TO NON-CONFORMANCE WITH THE
PROJECT SPECIFICATIONS.



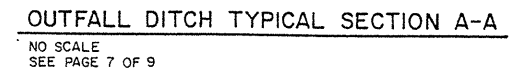
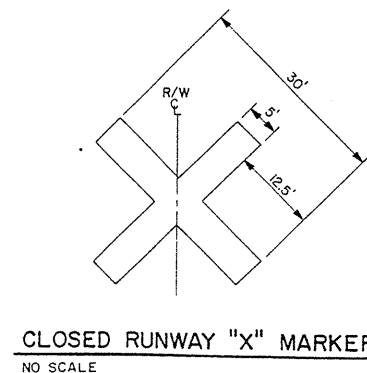
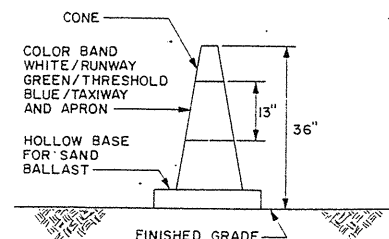
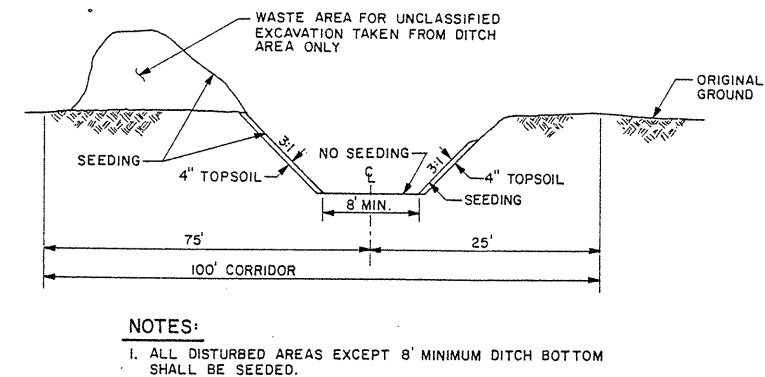
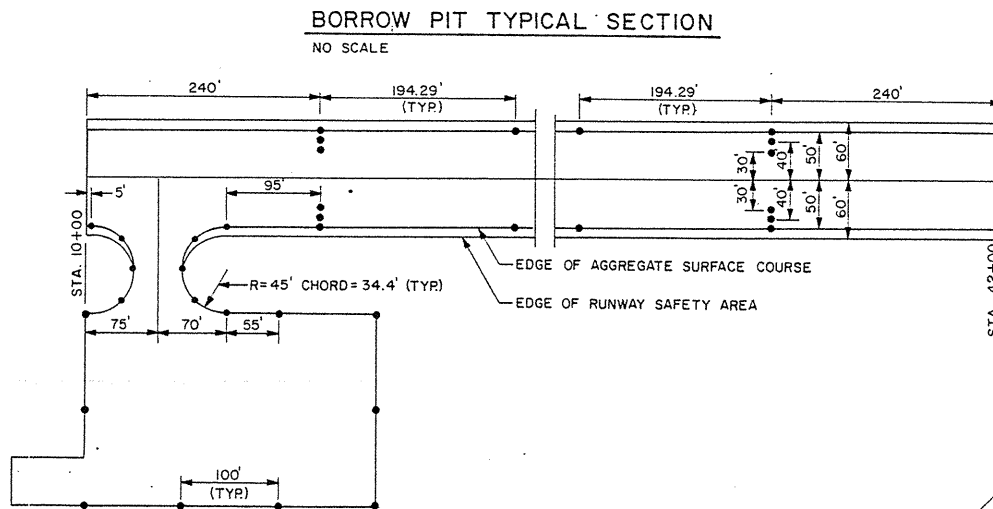
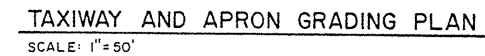
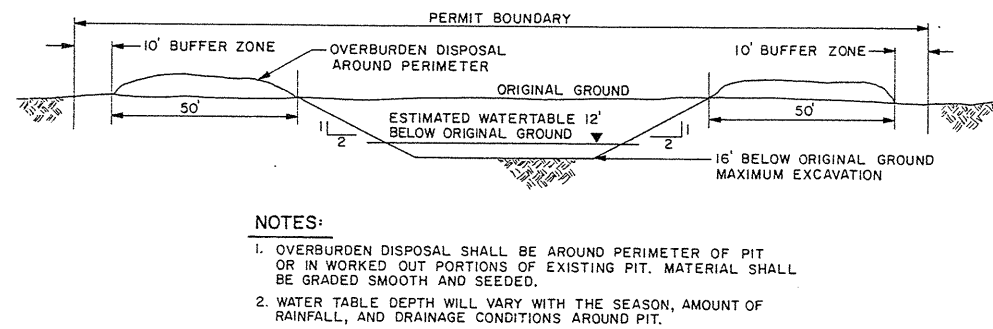
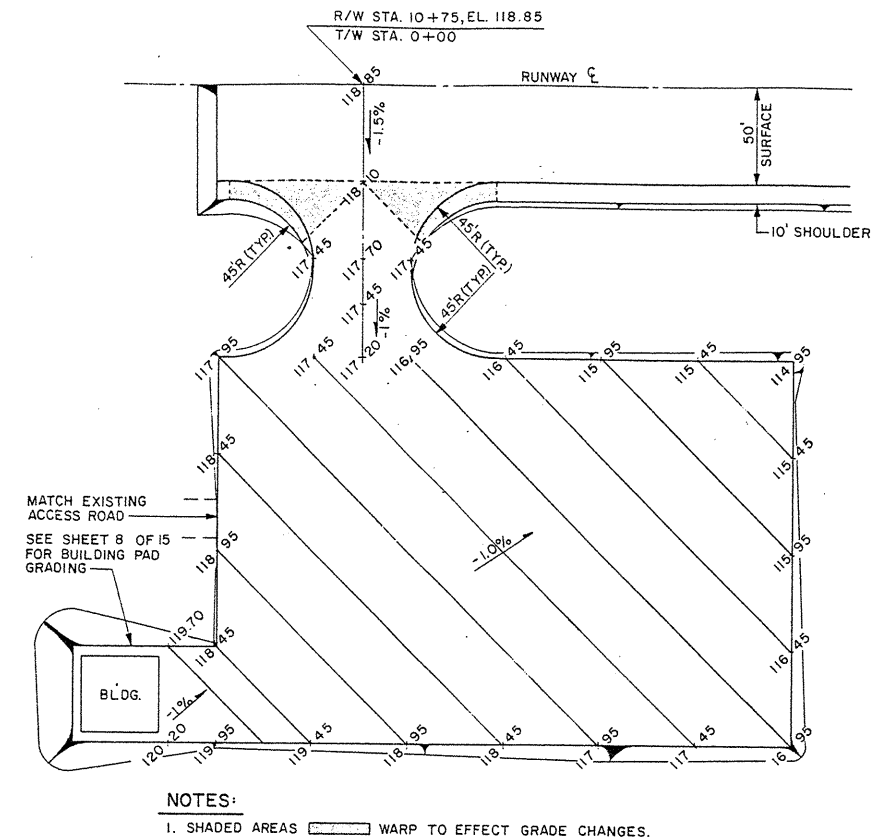
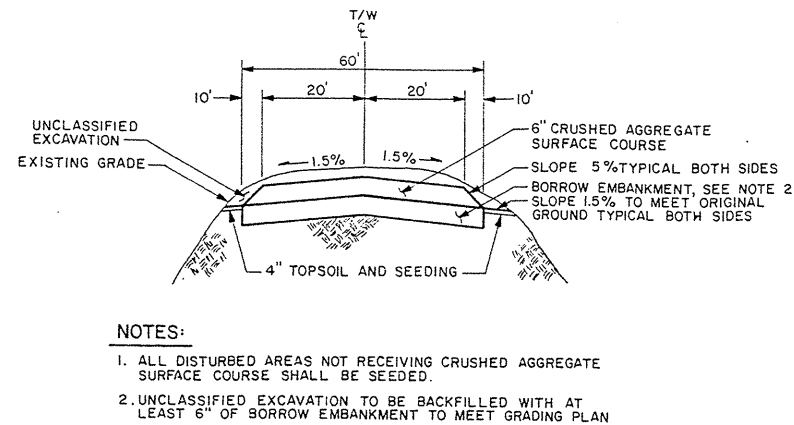
STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES AVIATION DESIGN AND CONSTRUCTION CENTRAL REGION			
EKWOK AIRPORT A.I.P. NO. 83-1-3-02-0088-01-83, D11512 LOCATION AND VICINITY MAPS, ESTIMATED QUANTITIES AND INDEX			
APPROVED	Tommy Gene Heinrich, P.E. CHIEF DESIGN ENGINEER		
APPROVED	William Koester, P.E. WESTERN DISTRICT DESIGN ENGINEER		
SCALE	DESIGNED	DRAWN	SHEET 2 OF 15
AS SHOWN	CHECKED	DATE	


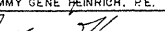
BY	DATE	CHANGE	REVISIONS
RSB	5-2-85	AS-BUILTS	
RSB	6-16-83	ADDENDUM NO.1	

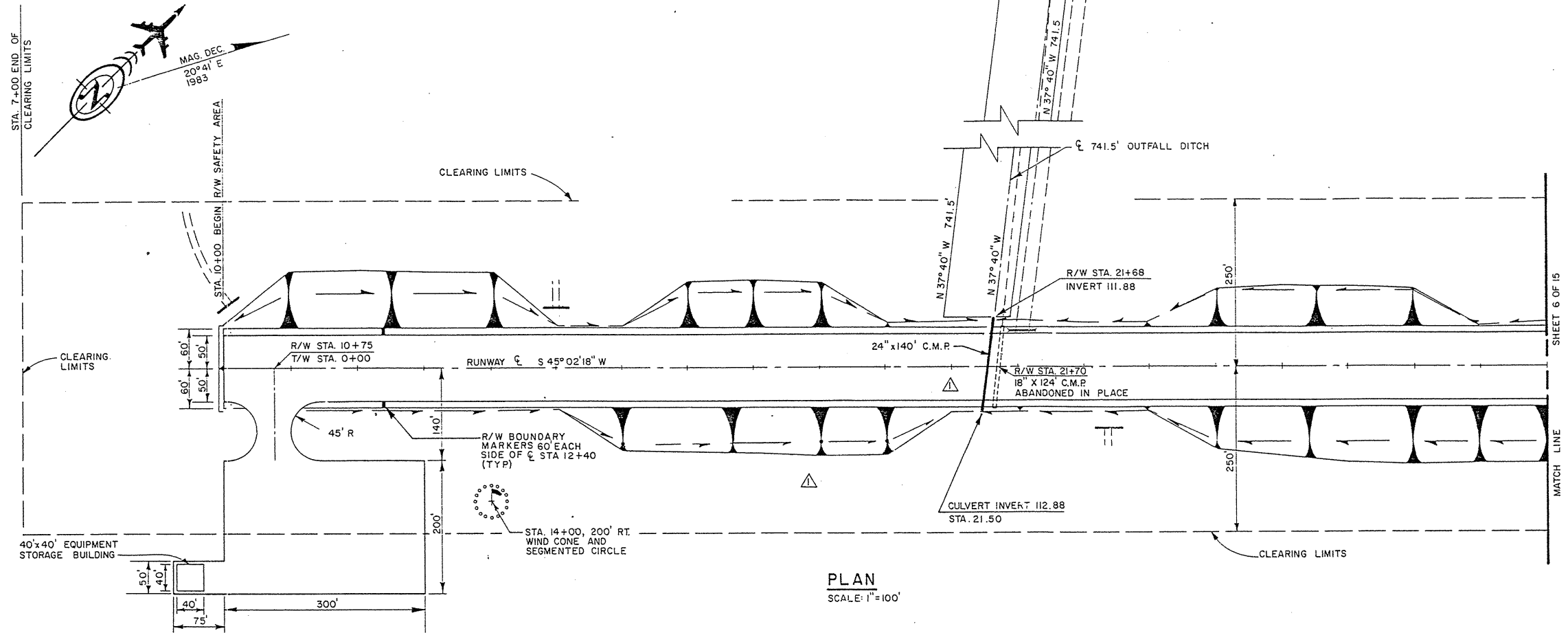


STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES AVIATION DESIGN AND CONSTRUCTION CENTRAL REGION	
EKWOK AIRPORT A.I.R. NO. 83-1-3-02-0088-01-83, D11512 PROJECT LAYOUT PLAN	
APPROVED <i>Tommy Gene Heinrich</i> TOMMY GENE HEINRICH, P.E. CHIEF DESIGN ENGINEER	APPROVED <i>William Koester</i> WILLIAM KOESTER, P.E. WESTERN DISTRICT ENGINEER
DESIGNED <i>W.K.</i> CHECKED <i>W.K.</i>	DRAWN <i>W.K.</i> DATE 5-5-83
SHEET 3 OF 15	

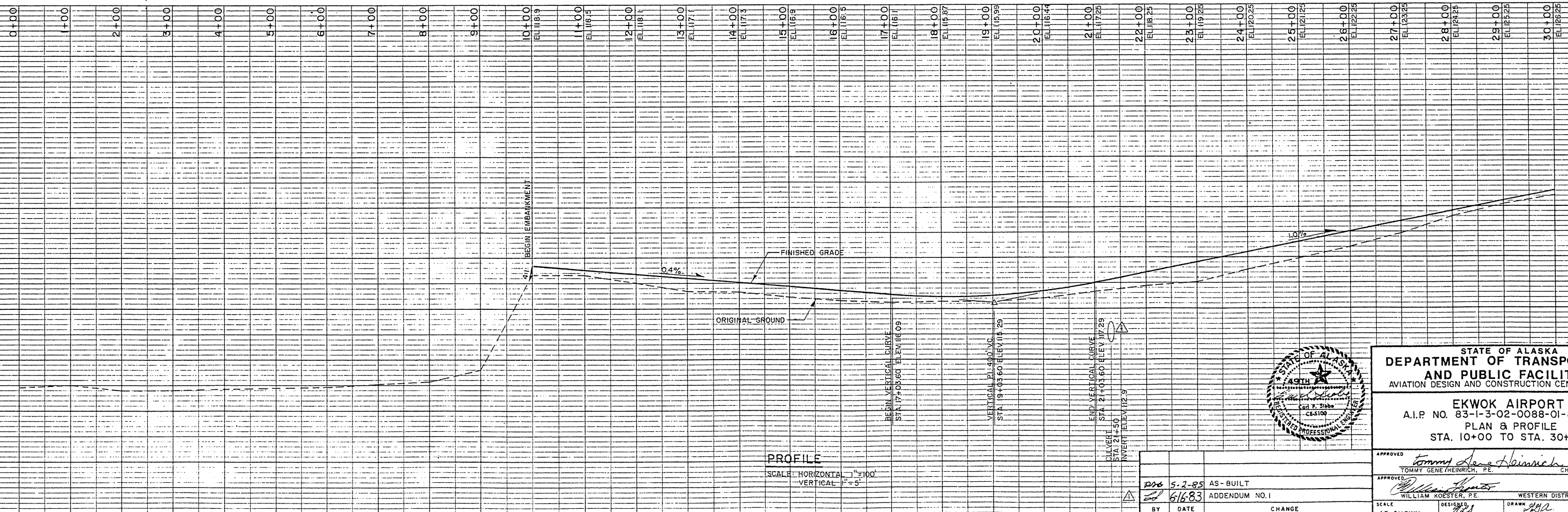
BY	DATE	CHANGE
W.K.	5-7-85	AS BUILT
W.K.	6-16-83	ADDENDUM NO. 1
REVISIONS		



STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES AVIATION DESIGN & CONSTRUCTION CENTRAL REGION			
EKWOK AIRPORT A.I.P. NO. 83-1-3-02-0088-01-83, D11512 TYPICAL SECTIONS, RETROREFLECTIVE MARKER AND TAXIWAY AND APRON GRADING PLAN			
APPROVED  TOMMY GENE HEINRICH, P.E.	CHIEF DESIGN ENGINEER		
APPROVED  WILLIAM KOESTER, P.E.	WESTERN DISTRICT DESIGN ENGINEER		
SCALE AS SHOWN	DESIGNED CHECKED <i>WJ</i>	DRAWN DATE 5-5-83	SHEET 4 OF 15

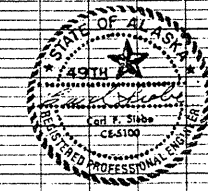


PLAN
SCALE: 1"=100'



PROFILE

SCALE: HORIZONTAL 1"=100'
VERTICAL 1"=5'



STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
AVIATION DESIGN AND CONSTRUCTION CENTRAL REGION

EKWOK AIRPORT
A.I.P. NO. 83-1-3-02-0088-01-83, D11512
PLAN & PROFILE
STA. 10+00 TO STA. 30+00

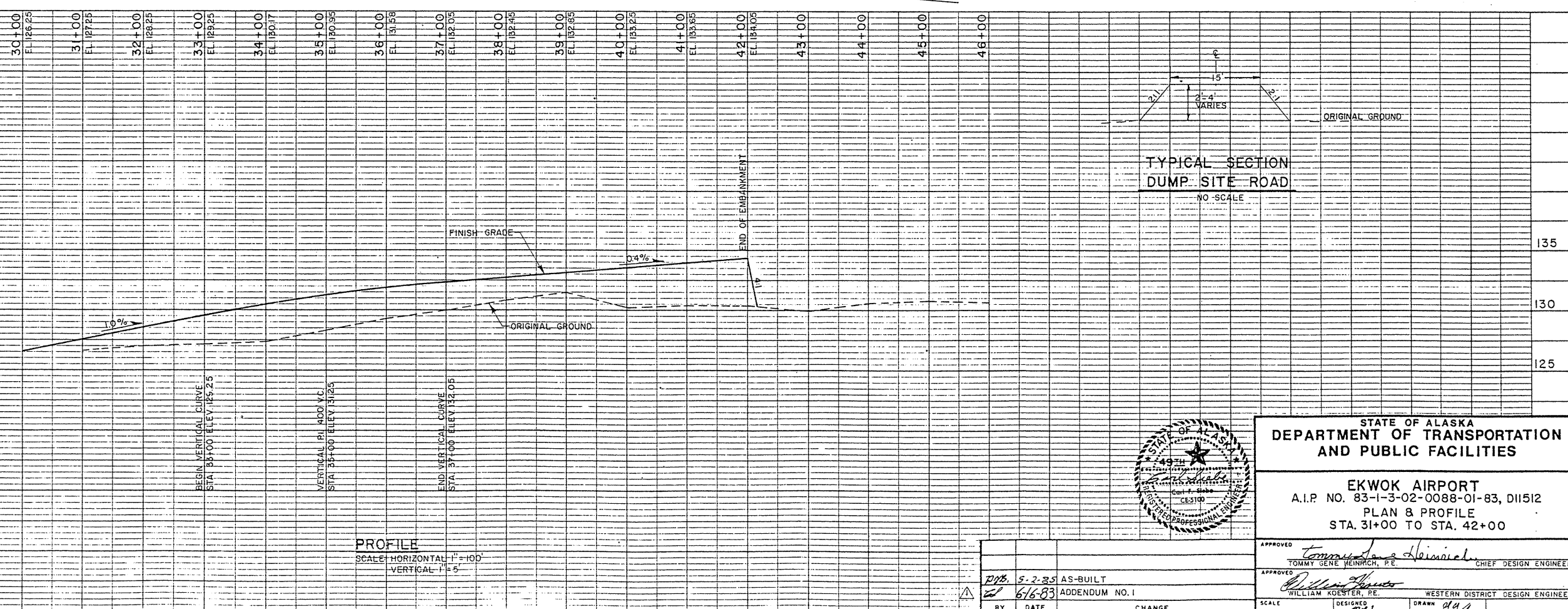
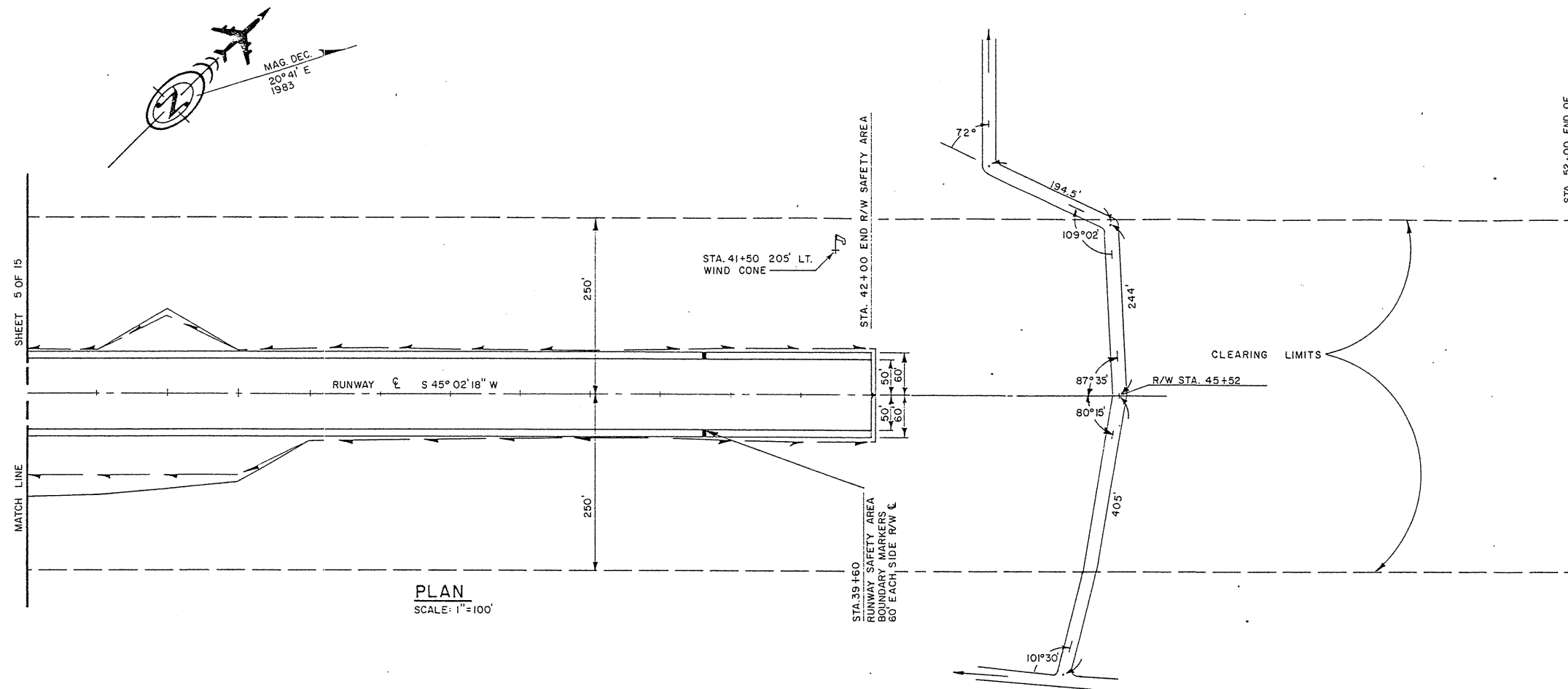
APPROVED: *Tommy Gene Heinrich*
TOMMY GENE HEINRICH, P.E. CHIEF DESIGN ENGINEER

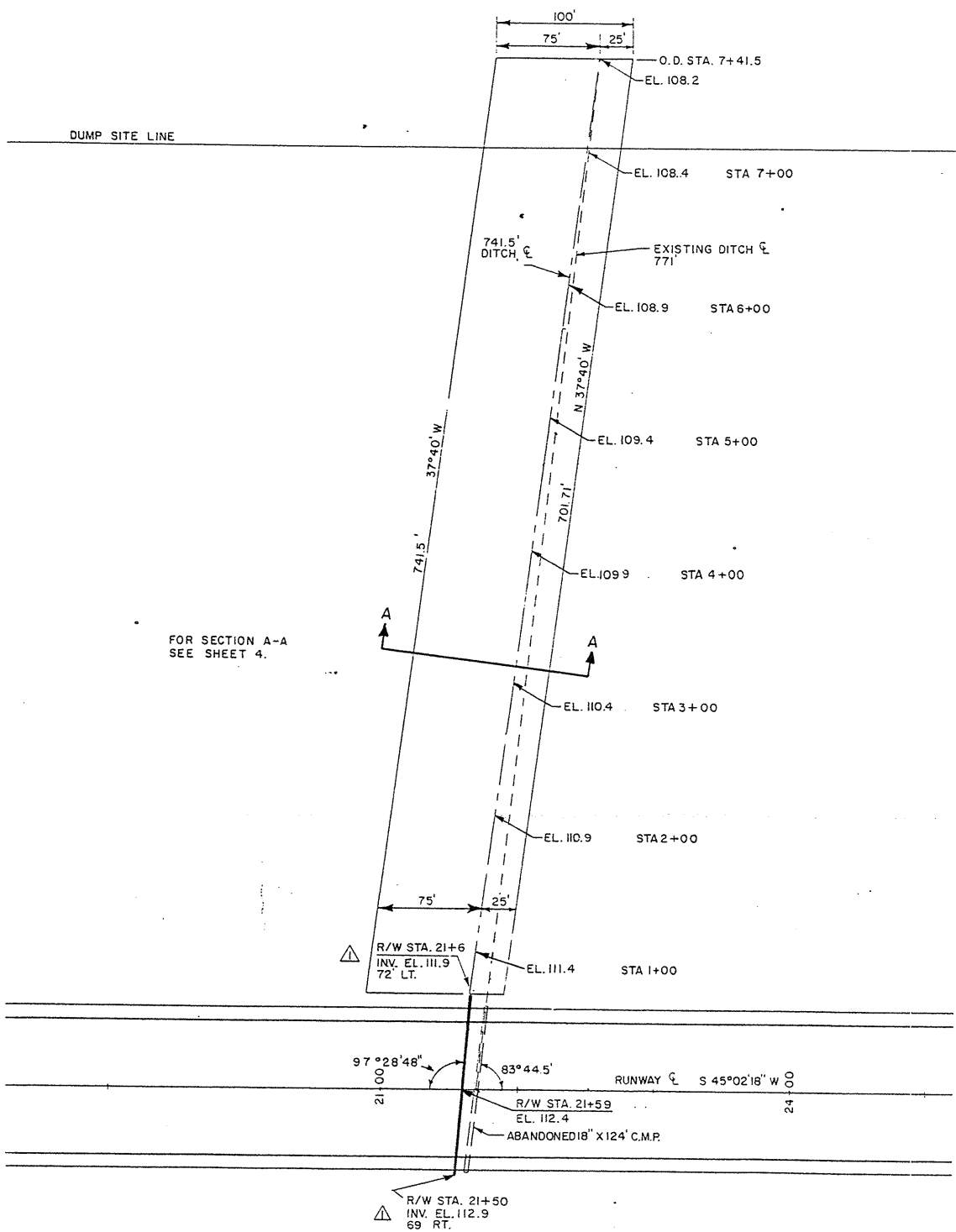
APPROVED: *William Koester*
WILLIAM KOESTER, P.E. WESTERN DISTRICT DESIGN ENGINEER

SCALE: AS SHOWN
DESIGNED: *W.K.*
CHECKED: *W.K.*
DATE: 5-5-85
DRAWN: *W.K.*
DATE: 5-5-85
SHEET 5 OF 15

BY	DATE	CHANGE
DDG	5-2-85	AS-BUILT
6/6/83		ADDENDUM NO. 1
		REVISIONS

AS-BUILT 4-85 SHEET 5 OF 9

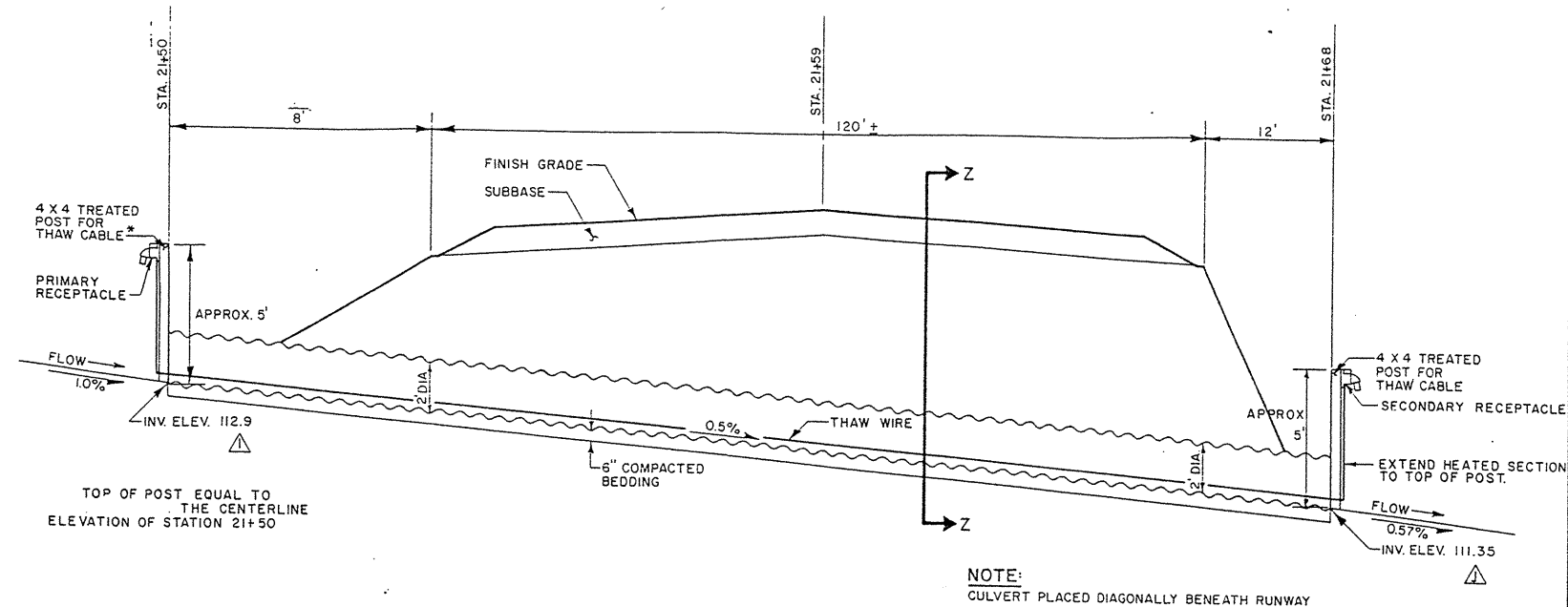




OUTFALL DITCH AND CULVERT DETAIL

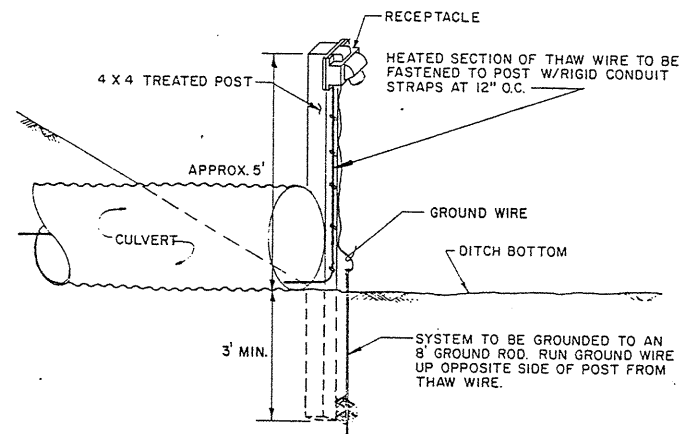
NO SCALE

NOTE
OUTFALL DITCH IS ABBREVIATED "O.D." ON PLAN VIEW.



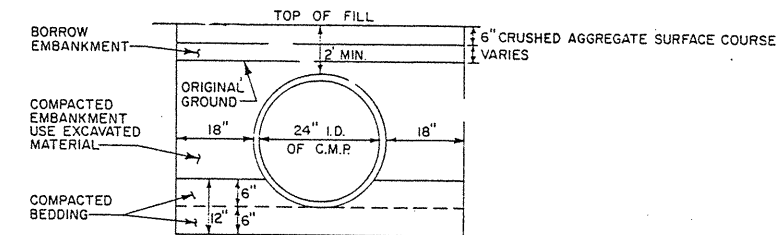
24" CULVERT INSTALLATION SECTION

NO SCALE



GROUNDING AND FASTENING DETAIL

NO SCALE



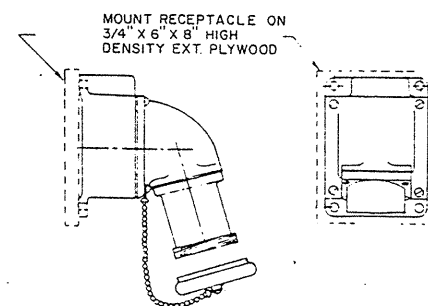
SECTION Z-Z

TYPICAL CULVERT INSTALLATION

NO SCALE

NOTES

1. COMPACTION WITHIN THE WORK LIMITS OUTLINED SHALL BE PROVIDED BY HAND TAMPERS.
2. BEDDING SHALL CONSIST OF MATERIAL MEETING THE REQUIREMENTS OF ITEM 330d, BORROW EMBANKMENT.



RECEPTACLE DETAIL

NO SCALE



STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
AVIATION DESIGN AND CONSTRUCTION CENTRAL REGION

EKWOK AIRPORT
A.I.P. No. 83-1-3-02-0088-01-83
D11512
DITCH PLAN AND
CULVERT DETAILS

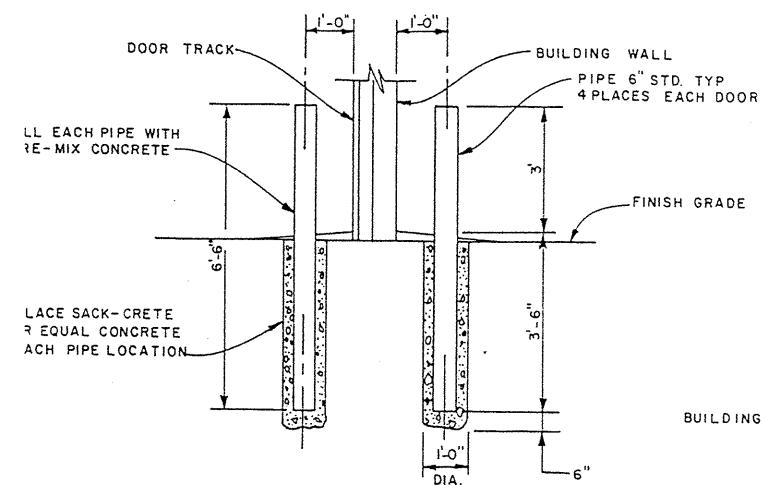
APPROVED *Tommy Gene Heinrich*
TOMMY GENE HEINRICH, P.E. CHIEF DESIGN ENGINEER

APPROVED *William Koester*
WILLIAM KOESTER, P.E. WESTERN DISTRICT ENGINEER

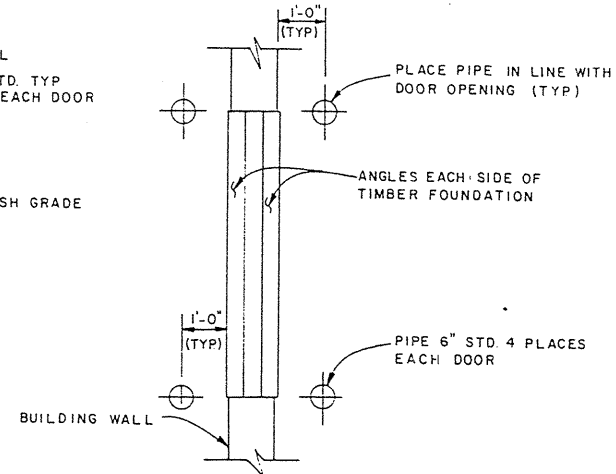
SCALE NO SCALE
DESIGNED *WKS* DRAWN *WKS*
CHECKED *WKS* DATE *5-5-83*

AS-BUILT 4-85 SHEET 7 OF 9

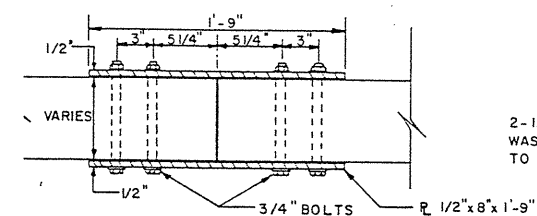
BY	DATE	CHANGE
WKS	5-2-85	AS-BUILT
WKS	6-16-83	ADDENDUM NO. 1
REVISIONS		



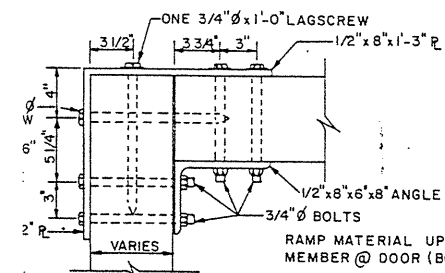
DOOR PROTECTION POSTS DETAIL
NO SCALE



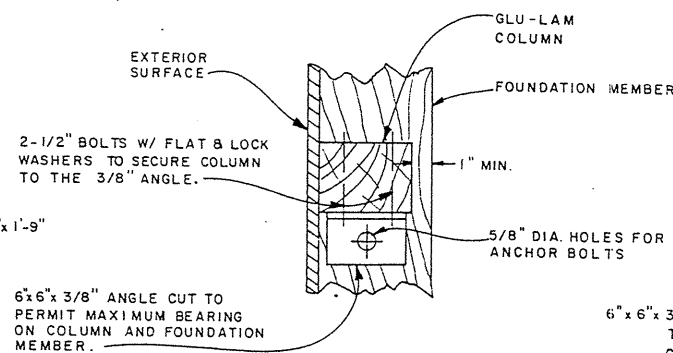
DETAIL 'B'
NO SCALE



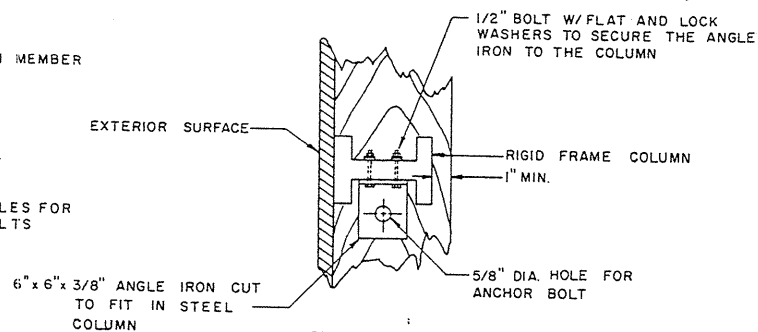
TOP VIEW
FOUNDATION CONNECTOR
NO SCALE



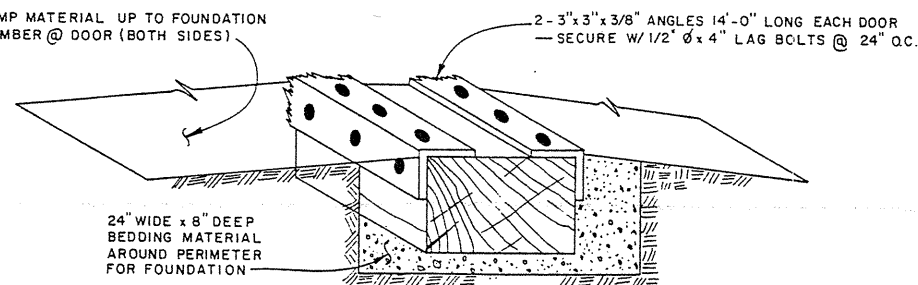
TOP VIEW
CORNER CONNECTOR
NO SCALE



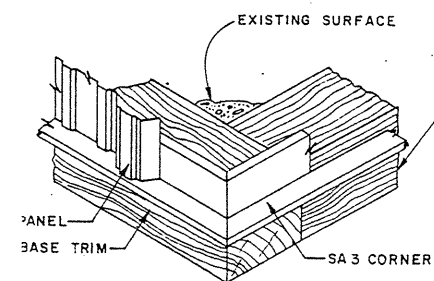
TOP VIEW
GLU-LAM COL.
NO SCALE



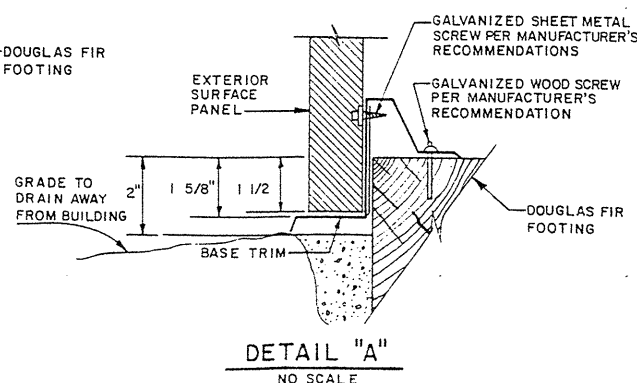
TOP VIEW
STEEL COLUMN
NO SCALE



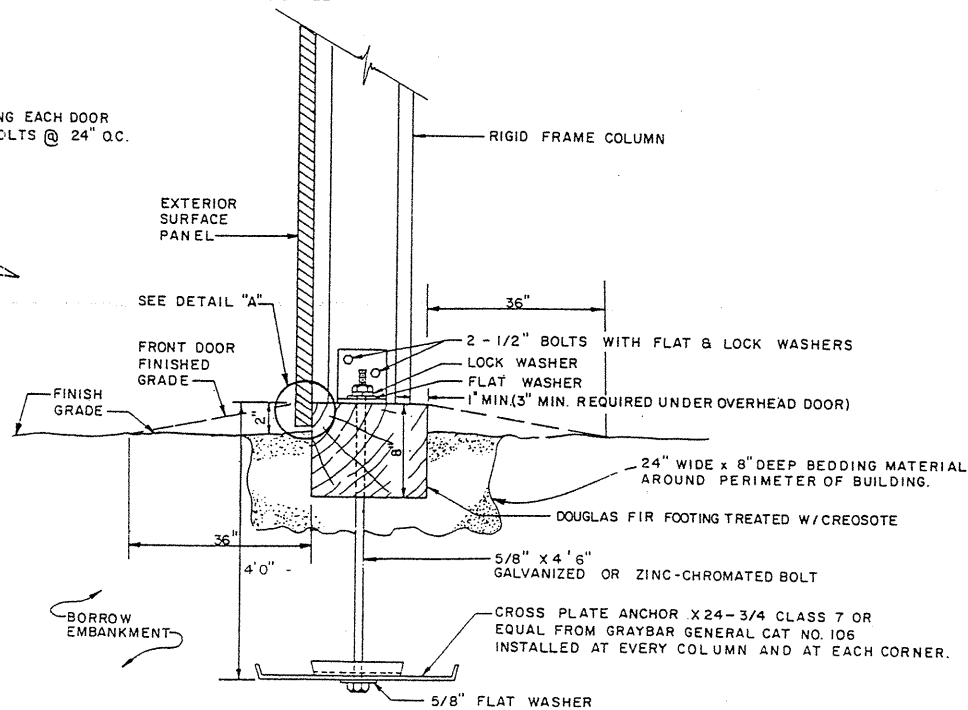
FOUNDATION MEMBER @ DOOR



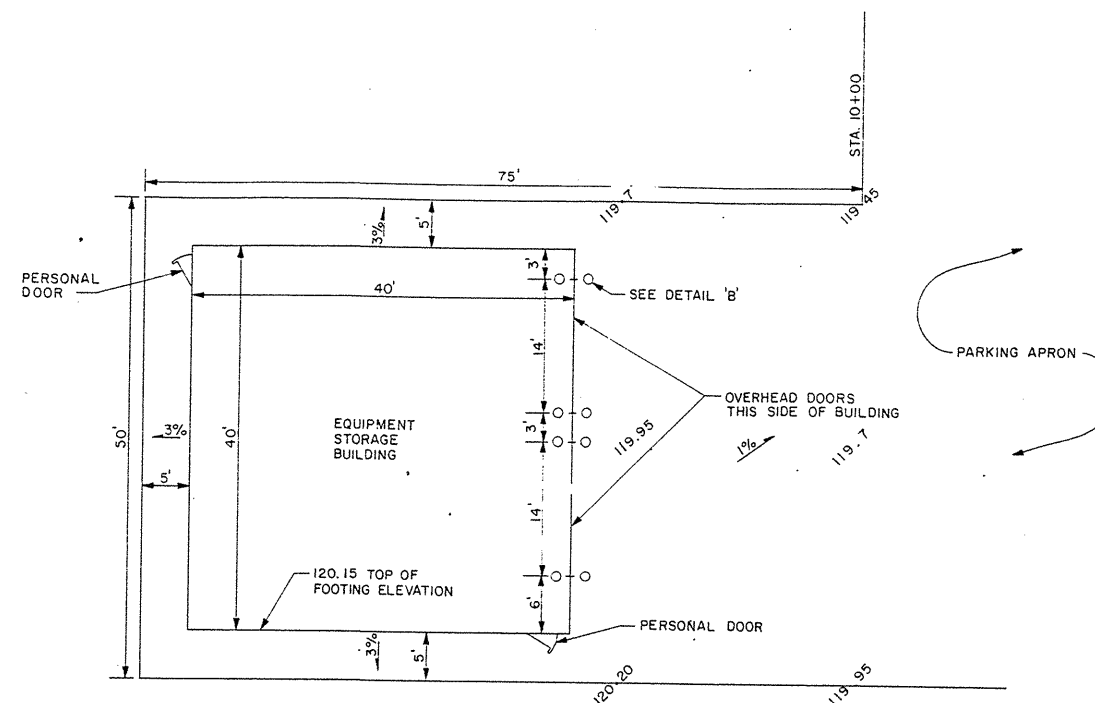
BUILDING CORNER DETAIL
NO SCALE



DETAIL 'A'
NO SCALE



END VIEW
EQUIPMENT STORAGE BUILDING
FOOTING AND ANCHOR DETAILS
(NO SCALE)



EQUIPMENT STORAGE BUILDING PAD DETAIL
NO SCALE

NOTES:

- ANCHOR & BASE TRIM HOLES TO BE DRILLED IN THE FIELD AND APPROVED BY THE PROJECT ENGINEER.
- DOUGLAS FIR FOOTING SHALL BE 8" IN DEPTH. WIDTH WILL VARY IN ACCORDANCE WITH THE TYPE AND THICKNESS OF COLUMN OF BUILDING SUPPLIED.
- EXTERIOR WALL SHALL BE PLACED ON THE OUTSIDE OF THE FOOTING AS SHOWN IN DETAIL 'A'.
- INTERIOR OF WALL SHALL BE RECESSED MIN. 1" FROM INSIDE EDGE OF FOOTING, EXCEPT AT OVERHEAD DOOR WHERE INTERIOR WALL SHALL BE RECESSED MIN. 3" FROM INSIDE EDGE OF FOOTING.
- TOP OF THE FOOTING SHALL BE 2" ABOVE FINISH GRADE EXCEPT AT THE OPENING FOR THE OVERHEAD DOOR WHERE FINISH GRADE SHALL BE RAMPED UP EVEN WITH TOP OF FOOTING.
- BEDDING MATERIAL AROUND FOOTING SHALL BE 1" MINUS MATERIAL SCREENED FROM THE BORROW EMBANKMENT.



STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
AVIATION DESIGN AND CONSTRUCTION CENTRAL REGION

EKWOK AIRPORT
A.I.P. NO. 83-1-3-02-0088-01-83, D11512
EQUIPMENT STORAGE BUILDING
PAD AND DETAILS

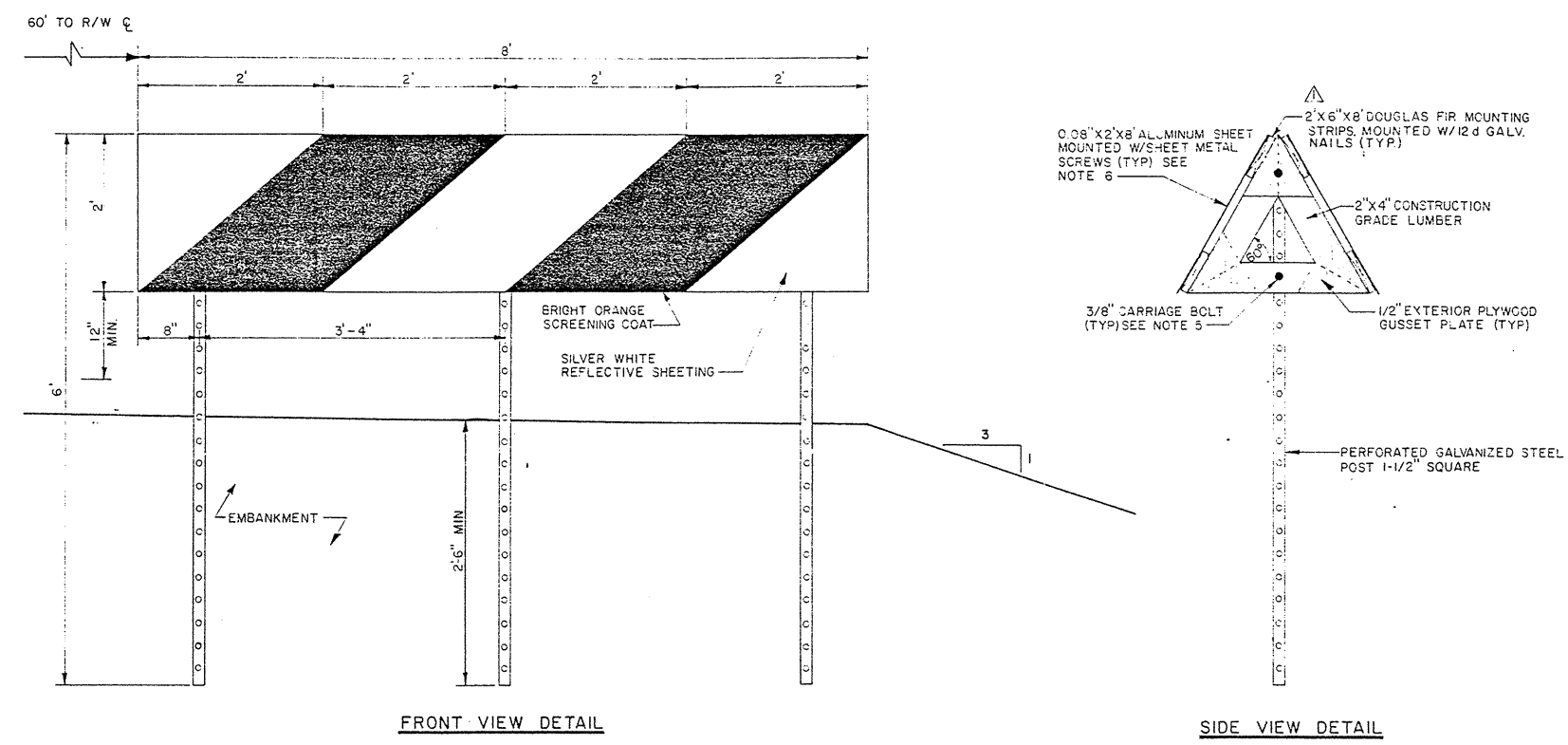
APPROVED: *Tommy Gene Heinrich*
TOMMY GENE HEINRICH, P.E. CHIEF DESIGN ENGINEER

APPROVED: *William Koester*
WILLIAM KOESTER, P.E. WESTERN DISTRICT DESIGN ENGINEER

BY	DATE	CHANGE
AS-BUILT	5-2-85	AS-BUILT
REVISIONS		

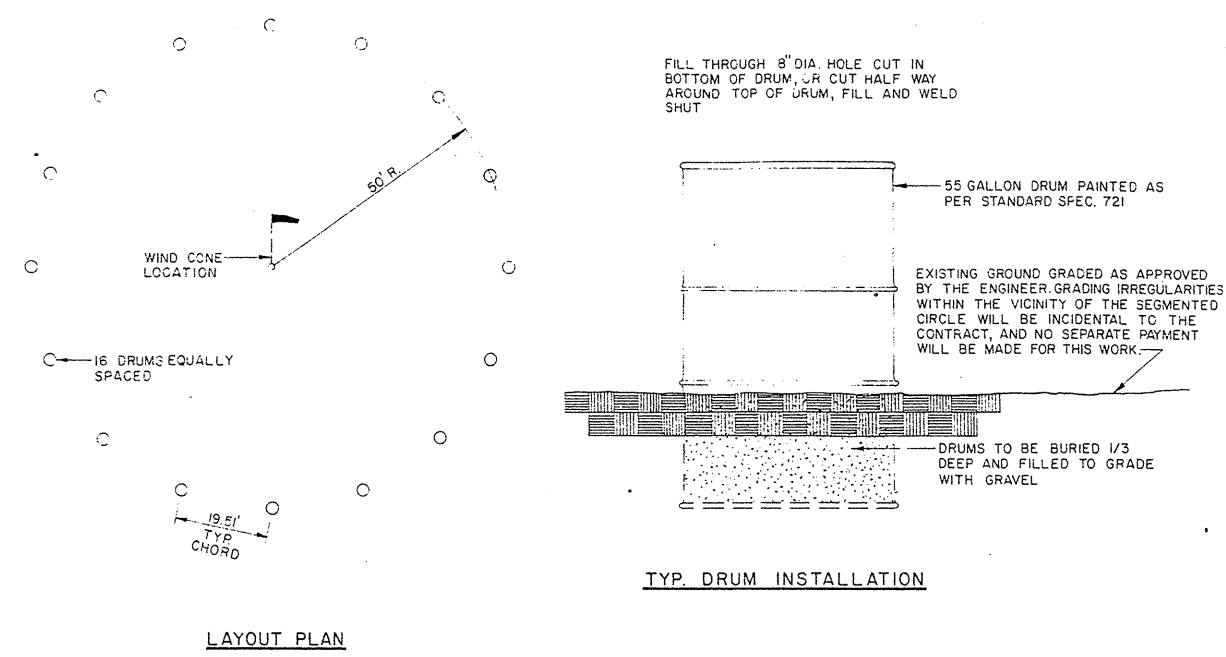
SCALE: AS SHOWN
DESIGNED: *Ball*
DRAWN: *Ball*
DATE: 5-5-83
SHEET 8 OF 15

AS-BUILT 4-85 SHEET 8 OF 9



FRONT VIEW DETAIL

SIDE VIEW DETAIL



LAYOUT PLAN

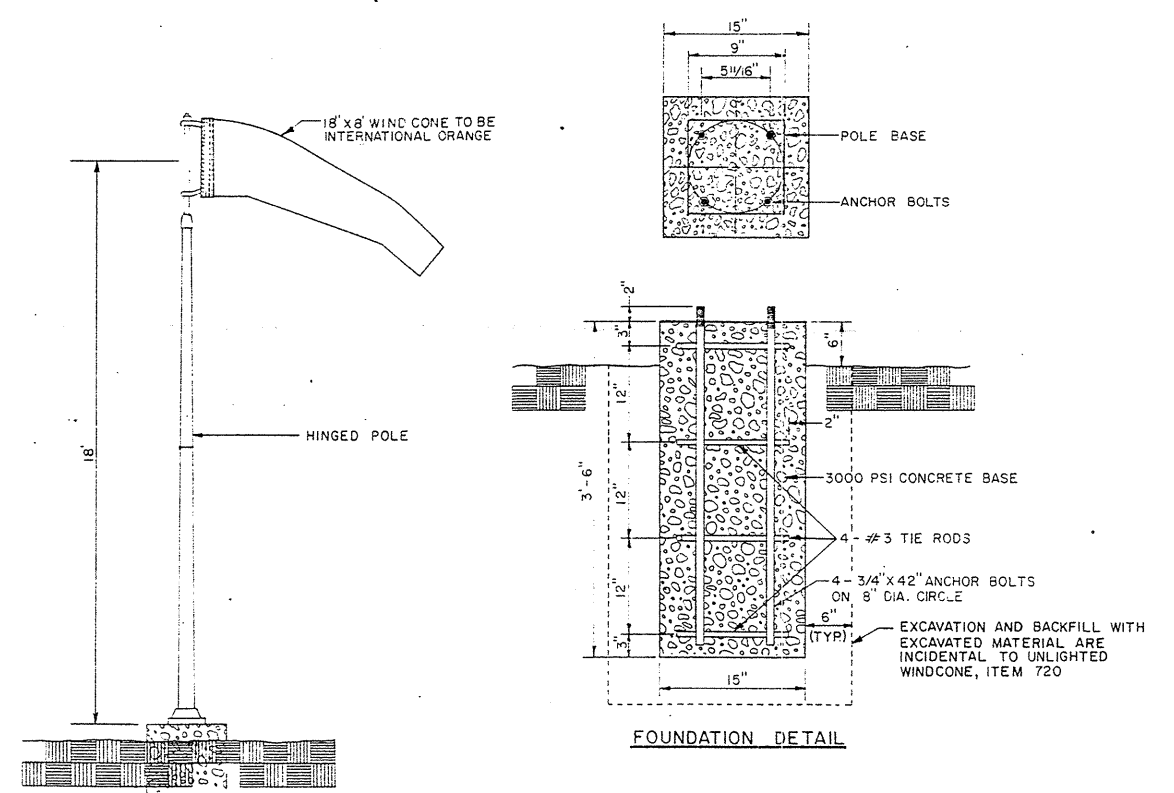
TYP. DRUM INSTALLATION

SEGMENTED CIRCLE DETAIL

TYPICAL RUNWAY SAFETY AREA BOUNDARY MARKER

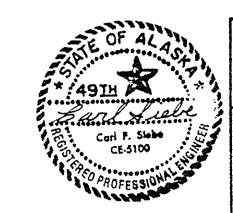
NOTES FOR RUNWAY BOUNDARY MARKER

- 1.- DIRECT BOUNDARY MARKER STRIPES DOWNWARD AND TOWARD THE RUNWAY CENTERLINE WHEN OBSERVED FROM AN APPROACH TO THE RUNWAY
- 2.- LOCATE RUNWAY BOUNDARY MARKERS 60' LEFT AND RIGHT OF RUNWAY CENTERLINE 240' IN FROM EACH END.
- 3.- MISCELLANEOUS GRADING FOR INSTALLATION OF RUNWAY BOUNDARY MARKERS AS PER DETAIL IS INCIDENTAL TO THE CONTRACT AND NO SEPARATE PAYMENT WILL BE MADE FOR THIS WORK.
- 4.- FASTEN GUSSET PLATES TO 2"x4" FRAME WITH EXTERIOR CEMENT AND GALVANIZED NAILS.
- 5.- FASTEN MOUNTING FRAMES TO STEEL POSTS WITH TWO 3/8"x5" GALVANIZED CARRIAGE BOLTS.
- 6.- PREPUNCH ALUMINUM SHEETS ON 12" CENTERS 3" FROM TOP AND BOTTOM. FASTEN TO MOUNTING STRIPS WITH 1"x#8 PAN HEAD ZINC COATED SHEET METAL SCREWS.



WIND CONE DETAILS

FOUNDATION DETAIL



STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES AVIATION DESIGN & CONSTRUCTION CENTRAL REGION	
EKWOK AIRPORT A.I.P. NO. 83-1-3-02-0088-01-83, D11512 WIND CONE, SEGMENTED CIRCLE, & RUNWAY BOUNDARY MARKER DETAILS	
APPROVED <i>Tommy Gene Heinrich</i> TOMMY GENE HEINRICH, P.E. CHIEF DESIGN ENGINEER	APPROVED <i>William Kuester</i> WILLIAM KUESTER, P.E. WESTERN DISTRICT DESIGN ENGINEER
BY <i>W.M.</i> DATE 5-1-85	AS-BUILT NO SCALE DESIGNED CHECKED DATE 5-5-85
SHEET 9 OF 15	