

BEECHCRAFT 90,
99, 100 & 200

BEECH 90

Accessories Required For Smokejumping:

Primary Floor Anchor: MEDC-617- Anchor cable for Beech 90, 99, 100,
& 200 & Nomad N24A Series Aircraft
STC Strength: 2,000 pounds
STC #: SA566NW

Other Accessories: MEDC-643- Handrail & Wind Deflector for Beech
90, 99, 100, & 200 Series Aircraft
MEDC-644 Floor Panels for Beechcraft 90, 99,
100 & 200 Series Aircraft

Jump Step & Attachment: Jump step not used on Beech 90

Note: There is no secondary anchor design for the Beech 90.

BEECH 99A

Accessories Required For Smokejumping:

Primary Floor Anchor: MEDC-617- Anchor cable for Beech 90, 99, 100,
& 200 & Nomad N24A Series Aircraft
STC Strength: 2,000 pounds
STC #: SA566NW

Secondary Anchor: MTDC-809- Horizontal Anchor Track for Beech
99A
STC Strength: 750 pounds
STC #: SA4047NM

Other Accessories: MEDC-643- Handrail & Wind Deflector for Beech
90, 99, 100, & 200 Series Aircraft
MEDC-644 Floor Panels for Beechcraft 90, 99,
100 & 200 Series Aircraft

Jump Step & Attachment: MEDC-759- Stepbasket (universal), Smokejumper
Aircraft
MEDC-794- Universal Step Strut

MEDC-785 Jump Step Attachment Points, Beech
99

Note: The Beech 99 requires a door brace
between the aft air stair door and the
forward jump door. Contact MTDC for
information about this accessory.

KING AIR 200

Accessories Required For Smokejumping:

Primary Floor Anchor: MEDC-617- Anchor cable for Beech 90, 99, 100,
& 200 & Nomad N24A Series Aircraft
STC Strength: 2,000 pounds
STC #: SA566NW

Secondary Anchor: Pending

Other Accessories: MEDC-643- Handrail & Wind Deflector for Beech
90, 99, 100, & 200 Series Aircraft
MEDC-644 Floor Panels for Beechcraft 90, 99,
100 & 200 Series Aircraft

Jump Step & Attachment: MEDC-759- Stepbasket (universal), Smokejumper
Aircraft
MEDC-794- Universal Step Strut

Note: Contact MTDC for information about
step attachment configuration for the King
Air 200.

United States of America
Department of Transportation — Federal Aviation Administration
Supplemental Type Certificate

Number SA566NW

This certificate, issued to U. S. Forest Service

certifies that the change in the type design for the following product with the limitations and conditions

*therefor as specified hereon meets the airworthiness requirements of Part * of the **

Regulations.

Original Product — Type Certificate Number: *See attached Master Eligibility List (MEL)
No. SA566NW for list of approved aircraft
Make: models and applicable airworthiness regula-
Model: tions.

Description of Type Design Change: Installation of a Parachute Deployment Static Line Attachment System in accordance with U.S. Forest Service Specification and Installation Instructions; and Drawing MEDC-617, Sheets 1 and 2.

NOTE: The static line and anchors are attached to the Beech (Aeroquip) R.H. Seat track.

Limitations and Conditions: The approval of this change in type design applies basically to the above model aircraft only. This approval should not be extended to other aircraft of this model on which other previously approved modifications are incorporated unless it is determined that the interrelationship between this change and any of those other previously approved modifications will introduce no adverse effect upon the airworthiness of that aircraft. A copy of this Certificate, Addendum No. SA566NW, and MEL No. SA566NW shall be maintained as part of the permanent records for the modified aircraft.

This certificate and the supporting data which is the basis for approval shall remain in effect until surrendered, suspended, revoked, or a termination date is otherwise established by the Administrator of the Federal Aviation Administration.

Date of application: January 25, 1978

Date issued:

Date of issuance: March 27, 1978

Date amended: July 14, 1982



By direction of the Administrator

Mark E. Baldwin
Mark E. Baldwin, (Signature) Chief,
Denver-Aircraft Certification Field Office
Northwest Mountain Region, Aurora, Colorado
(Title)

Any alteration of this certificate is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 3 years, or both.

This certificate may be transferred in accordance with FAR 21.47.



DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION
NORTHWEST MOUNTAIN REGION
Denver Aircraft Certification Field Office
10455 East 25th Avenue - Suite 307
Aurora, Colorado 80010
(303) 340-5302 or 5569

July 14, 1982

USDA Forest Service
Equipment Development Center
Building 1, Fort Missoula
Missoula, Montana 59801

Gentlemen:

Project No. A687RM-S

We have satisfactorily completed our evaluation of the amendment to Supplemental Type Certificate (STC) SA566NW. The STC has been amended to increase the maximum allowable load on the static line anchor cable to 2420 pounds. Also, Item II on the Master Eligibility Listing (MEL) was amended to include the Beech Model Series 100 aircraft. The specification and installation instructions have also been amended to increase the load to 2420 pounds and include a statement concerning the slack in the cable assembly.

A copy of the amended certificate, MEL, and installation instructions are enclosed. Please return your previously issued STC to this office for cancellation.

As recipient of this approval, except as provided in Federal Aviation Regulations (FAR) Part 21.3(d), you are required to report any failure, malfunction, or defect in any product or part manufactured by you that you have determined has resulted or could result in any of the occurrences listed in FAR Part 21.3(c). The report should be communicated initially by telephone and subsequently in writing to the Chief, Denver Aircraft Certification Field Office, ANM-170D, at the telephone number and address indicated above. This first contact shall take place within 24 hours after it has been determined that the failure required to be reported has occurred. Federal Aviation Administration Form 8330-2 (Malfunction or Defect Report) or any other appropriate format is acceptable in transmitting the required details.

If you plan to manufacture or sell parts for installation on type certificated aircraft, please review FAR Part 21.303 which is applicable to replacement and modification parts. Applications for Parts Manufacturer Approval

may be made in letter form, listing the following information: (1) part name, (2) part number, (3) STC number, (4) model or type certificated product on which the part will be installed, and (5) a statement certifying that a fabrication inspection system has been established in accordance with FAR Part 21.303(h). This application should be mailed to the address indicated above.

Sincerely,

Mark E. Baldwin, Sr.

Mark E. Baldwin
Chief, Denver Aircraft
Certification Field Office

3 Enclosures

United States of America
Department of Transportation—Federal Aviation Administration
Supplemental Type Certificate
(Continuation Sheet) July 14, 1982

Number SA566NW

SUPPLEMENTAL TYPE CERTIFICATE ADDENDUM NO. SA566NW

The conditions and limitation of Type Certificate Data Sheet Nos 3A20, A14CE and A24CE apply except where superseded by the following:

This Supplemental Type Certificate Data Sheet, which is part of STC SA566NW, prescribes the conditions and limitations under which the product for which the STC was issued meets the airworthiness requirements of the Federal Aviation Regulations:

SUPPLEMENTAL TYPE CERTIFICATE HOLDER: United States Forest Service

I. BEECH MODEL SERIES 90, 99, 100 AND 200 AS MODIFIED BY STC SA566NW

Airframe: No change

Engines: No change

Performance: No change

Limitations: No change

Placards: The following PLACARDS must be located near the Cargo Door that reads:

- (1) THE MAXIMUM ALLOWABLE LOAD ON THE STATIC LINE ATTACH CABLE IS 2420 POUNDS IN A TYPICAL PARACHUTE DEPLOYMENT CONFIGURATION
- (2) THE CABLE STOP MUST BE ADJUSTED ALONG THE LENGTH OF THE CABLE SO THAT THE PARACHUTE DEPLOYMENT BAG CANNOT TRAIL AFT OF THE HORIZONTAL STABILIZER

NOTE: A determination was made that Supplemental Type Certificate SA566NW does not effect aircraft performance; therefore, no Airplane Flight Manual Supplement change was deemed necessary.

-END-

Any alteration of this certificate is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 3 years, or both.

SPECIFICATION AND INSTALLATION INSTRUCTION
FOR SMOKEJUMPER STATIC LINE ANCHOR CABLE FOR
BEECHCRAFT MODELS 90, 99, 100, AND 200 SERIES AIRCRAFT

Part	Load
Static Line Anchor Cable	2420# <u>1/</u>

1/ Load applied in a typical parachute deployment configuration with static line routed through the carabiner on the rear anchor.

Parts are fabricated as illustrated in drawing MEDC-617 sheets 1 and 2. All welding is by the arc process. Assembled anchor units are installed in the aircraft right hand seat track with the one using Part 24, side brace, placed opposite the door used for jumper deployment. Cable length between anchors shall be of adequate length to allow all jumpers to attach their deployment static line without having to move aft in the cabin. This will facilitate emergency evacuation. The cable assembly shall be installed with 4 inches of slack measured in extreme spread. Part #18 the cable stop must be adjusted along the length of the cable so the parachute deployment bag cannot trail aft of the horizontal stabilizer.

All assemblies fabricated from steel are to be painted with zinc chromate P-27 or equivalent corrosion protecting prior to installation in the aircraft.

Amended July 14, 1982

FAA APPROVED

MASTER ELIGIBILITY LISTING NUMBER SA566NW
 FOR
 PARACHUTE DEPLOYMENT STATIC LINE ATTACHMENT SYSTEM
 U.S. FOREST SERVICE

DATE: March 27, 1978

EM	AIRCRAFT MAKE	AIRCRAFT MODEL	ORIGINAL TYPE CERTIFICATE NUMBER	CERTIFICATION BASIS FOR ALTERATION	FAA SEALED DRAWING/DRAWING LIST		AFM SUPPLEMENT NUMBER/DATE	MEL AMENDMENT DATE
					NUMBER	REV.		
	Beech	65-90, 65-A90, 65-A90-1, 65-A90-2, 65-A90-3, 65-A90-4, B90, C90, E90	3A20 (Rev.32)	CAR 3 eff. May 15, 1956 w/Amendments (See T.C. 3A20 page 24 for details)	U.S. Forest Service Dwg. No. MEDC-617 (Sheets 1 & 2)			
I	Beech	99, 99A, A99, A99A, B99, 100, A100, A100A, A100C, B100	A14CE	Part 23, dated 2/11/65 w/Amendments (See T.C. A14CE, page 15 for details)				July 14, 1982
II	Beech	200, A200, 200T	A24CE	Part 23, dated 2/1/65 w/Amendments (See T.C. A24CE, Page 6 for details)				
V	Beech	H18, E18S, C-45G, C-45H	A-765	CAR 03, 11-13-45 CAR 3, 11-1-49 as amended by 3-14	U.S. Forest Service Dwg. No. MEDC-617, Sheets 1 and 2			April 12, 1979



DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION
NORTHWEST MOUNTAIN REGION
Denver Aircraft Certification Field Office
10455 East 25th Avenue - Suite 307
Aurora, Colorado 80010
(303) 340-5302 or 5569

July 29, 1982

USDA Forest Service
Equipment Development Center
Building 1, Fort Missoula
Missoula, Montana 59801

Gentlemen:

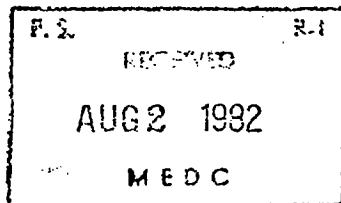
Project No. A687RM-S

We have satisfactorily completed our review of your drawing, MEDC-617, revision D, sheets 1 and 2.

Sheet 1 has been revised since the issuance of the amendment to Supplemental Type Certificate (STC) SA566NW, dated July 14. This revision added the length of the anchor cable and changed Note 3 to increase the cable assembly slack from 4 to 6 inches. This change on the drawing necessitates an amendment to the Specification and Installation Instruction.

Enclosed is a Federal Aviation Administration approved copy of the Specification and Installation Instruction, dated July 29, 1982, and drawing MEDC-617. Please return your previously issued STC to this office for cancellation.

Sincerely,



Woodford R. Boyce
Acting Manager, Denver Aircraft
Certification Field Office

2 Enclosures

SPECIFICATION AND INSTALLATION INSTRUCTION
FOR SMOKEJUMPER STATIC LINE ANCHOR CABLE FOR
BEECHCRAFT MODELS 90, 99, 100 AND 200 SERIES AIRCRAFT

Part	Load
Static Line Anchor Cable	2420# <u>1/</u>

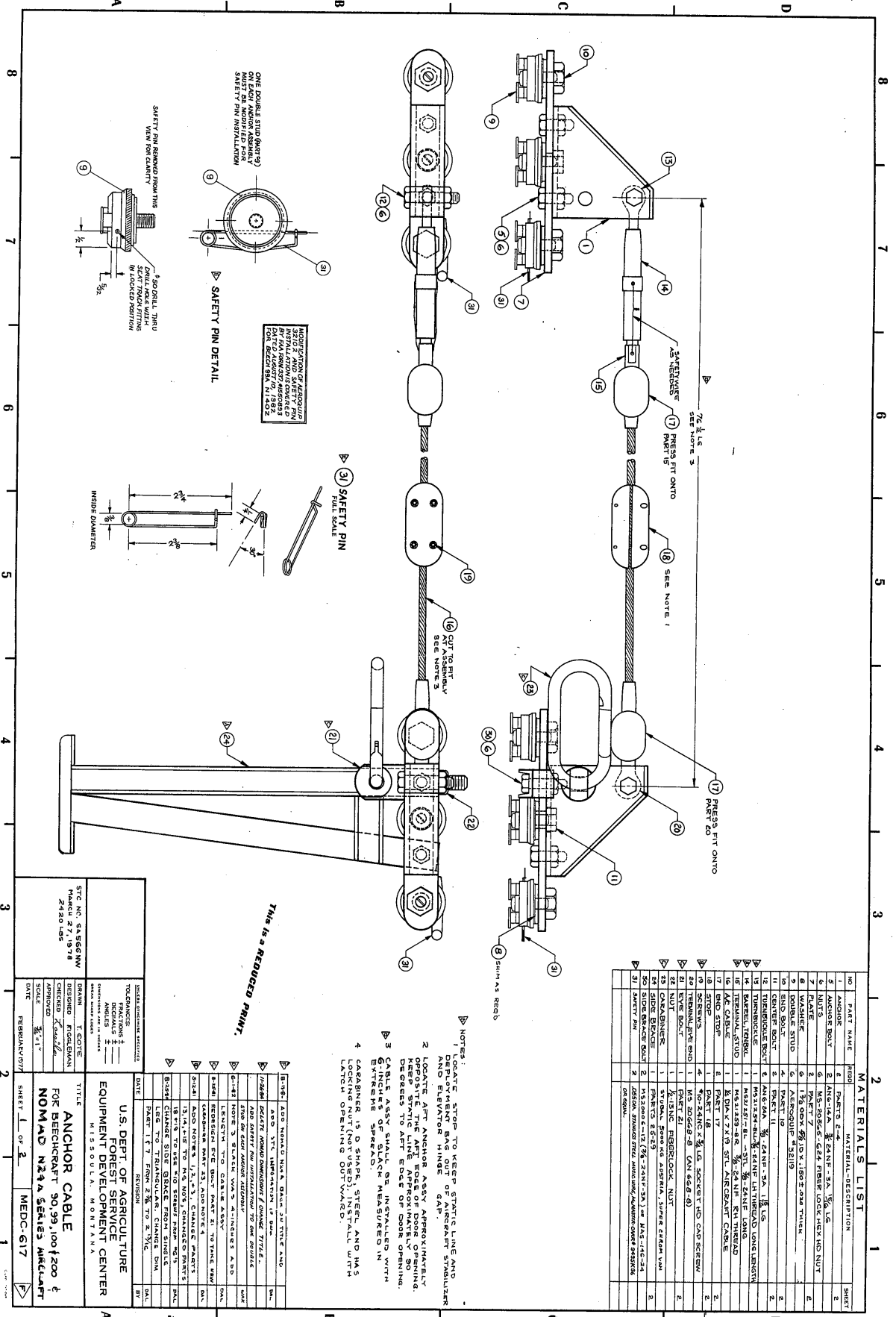
1/ Load applied in a typical parachute deployment configuration with static line routed through the carabiner on the rear anchor.

Parts are fabricated as illustrated in drawing MEDC-617 sheets 1 and 2. All welding is by the arc process. Assembled anchor units are installed in the aircraft right hand seat track with the one using Part 24, side brace, placed opposite the door used for jumper deployment. Cable length between anchors shall be 76 1/2 inches. The cable assembly shall be installed with 6 inches of slack measured in extreme spread. Part #18, the cable stop, must be adjusted along the length of the cable so the parachute deployment bag cannot trail aft of the horizontal stabilizer.

All assemblies fabricated from steel are to be painted with zinc chromate P-27 or equivalent corrosion protection prior to installation in the aircraft.

Amended July 14, 1982

Amended July 29, 1982



MATERIALS LIST

NO	PART NAME	QTY	MATERIAL-DESCRIPTION	SHEET
1	ANCHOR BOLT	2	ANCHOR BOLT 3/4" DIA. X 1 1/2" LG.	2
2	NUTS	4	MS-3026C-634 HEAVY LOCK WASH HD NUT	2
3	PLATE	2	PLATE 7/8" X 1 1/2" X 1/8" THICK	2
4	DRONE STUD	2	DRONE STUD 3/8" DIA. X 1 1/2" LG.	2
5	END BOLT	2	END BOLT 3/8" DIA. X 1 1/2" LG.	2
6	TURNBUCKLE BOLT	2	TURNBUCKLE BOLT 3/8" DIA. X 1 1/2" LG.	2
7	BARREL NUT	1	BARREL NUT 3/8" DIA. X 1 1/2" LG.	2
8	TERMINAL STUD	1	TERMINAL STUD 3/8" DIA. X 1 1/2" LG.	2
9	WIRE CABLE	1	WIRE CABLE 3/8" DIA. X 1 1/2" LG.	2
10	SCREWS	4	MS-3026C-634 HEAVY LOCK WASH HD CAP SCREW	2
11	TURNBUCKLE END	1	TURNBUCKLE END 3/8" DIA. X 1 1/2" LG.	2
12	WIRE CABLE	1	WIRE CABLE 3/8" DIA. X 1 1/2" LG.	2
13	SCREWS	4	MS-3026C-634 HEAVY LOCK WASH HD CAP SCREW	2
14	TURNBUCKLE END	1	TURNBUCKLE END 3/8" DIA. X 1 1/2" LG.	2
15	WIRE CABLE	1	WIRE CABLE 3/8" DIA. X 1 1/2" LG.	2
16	SCREWS	4	MS-3026C-634 HEAVY LOCK WASH HD CAP SCREW	2
17	TURNBUCKLE END	1	TURNBUCKLE END 3/8" DIA. X 1 1/2" LG.	2
18	WIRE CABLE	1	WIRE CABLE 3/8" DIA. X 1 1/2" LG.	2
19	SCREWS	4	MS-3026C-634 HEAVY LOCK WASH HD CAP SCREW	2
20	TURNBUCKLE END	1	TURNBUCKLE END 3/8" DIA. X 1 1/2" LG.	2
21	WIRE CABLE	1	WIRE CABLE 3/8" DIA. X 1 1/2" LG.	2
22	SCREWS	4	MS-3026C-634 HEAVY LOCK WASH HD CAP SCREW	2
23	TURNBUCKLE END	1	TURNBUCKLE END 3/8" DIA. X 1 1/2" LG.	2
24	WIRE CABLE	1	WIRE CABLE 3/8" DIA. X 1 1/2" LG.	2
25	SCREWS	4	MS-3026C-634 HEAVY LOCK WASH HD CAP SCREW	2
26	TURNBUCKLE END	1	TURNBUCKLE END 3/8" DIA. X 1 1/2" LG.	2
27	WIRE CABLE	1	WIRE CABLE 3/8" DIA. X 1 1/2" LG.	2
28	SCREWS	4	MS-3026C-634 HEAVY LOCK WASH HD CAP SCREW	2
29	TURNBUCKLE END	1	TURNBUCKLE END 3/8" DIA. X 1 1/2" LG.	2
30	WIRE CABLE	1	WIRE CABLE 3/8" DIA. X 1 1/2" LG.	2
31	SAFETY PIN	2	SAFETY PIN 3/8" DIA. X 1 1/2" LG.	2

- NOTES:**
1. WIRE CABLE TO BE KEPT STRAIGHT LINE AND DERIVED FROM SAME MANUFACTURER AND ELEVATOR HIDE GAP.
 2. LOCATE AFT ANCHOR ASSEMBLY APPROXIMATELY OPPOSITE THE AFT EDGE OF DOOR OPENING. DEGREE TO AFT EDGE OF DOOR OPENING.
 3. CABLE ASSEMBLY SHALL BE INSTALLED WITH 6-INCHES OF SLACK MEASURED IN CENTER SPREAD.
 4. CARABINER IS D SHAPED, STEEL AND HAS 5 LATCH OPENING OUTWARD.

This is a REDUCED PRINT.

NO	REVISION	DATE	BY	CHK
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TOLERANCES UNLESS OTHERWISE SPECIFIED:

ANGLES ± .1°

DIMENSIONS ± .005"

FINISHES: ALL SURFACES TO BE POLISHED TO A 150 GRIT FINISH.

WELDING: ALL WELDS TO BE MADE TO MIL-SPEC 16183.

PAINT: ALL SURFACES TO BE PAINTED WITH AN ANTI-RUST PAINT.

DATE: 11/1/57

REVISION: 1

BY: [Signature]

CHK: [Signature]

TITLE: **ANCHOR CABLE FOR BECHCRAFT 90,99,100,1200 & NOMAD N3A SERIES AIRCRAFT**

U.S. DEPT. OF AGRICULTURE
FOREST SERVICE
EQUIPMENT DEVELOPMENT CENTER
MISSOULA, MONTANA

DRAWN: T. GOTT
DESIGNED: PRODDMAN
CHECKED: [Signature]
APPROVED: [Signature]
DATE: 11/1/57

STC NO. SA 5866W
MARCH 27, 1978
2450 105

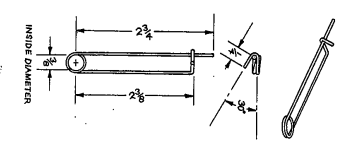
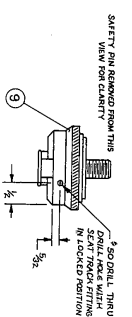
REWORK/REV: 2

SHEET 1 OF 2

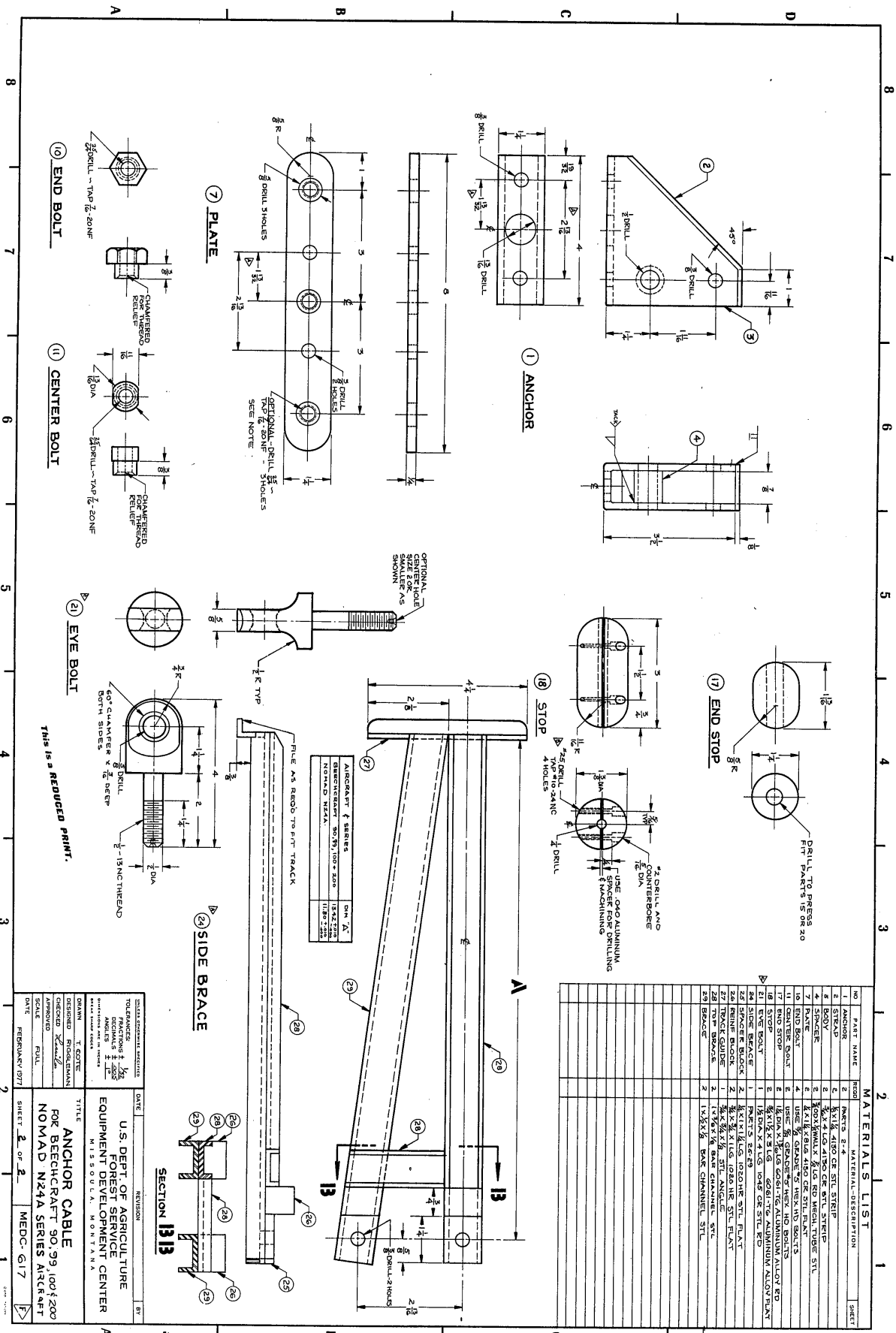
MECC-617

REVISIONS/CHANGES:

REV. 2 AND SAFETY PIN
BY: [Signature]
DATE: AUGUST 10, 1952



8 7 6 5 4 3 2 1

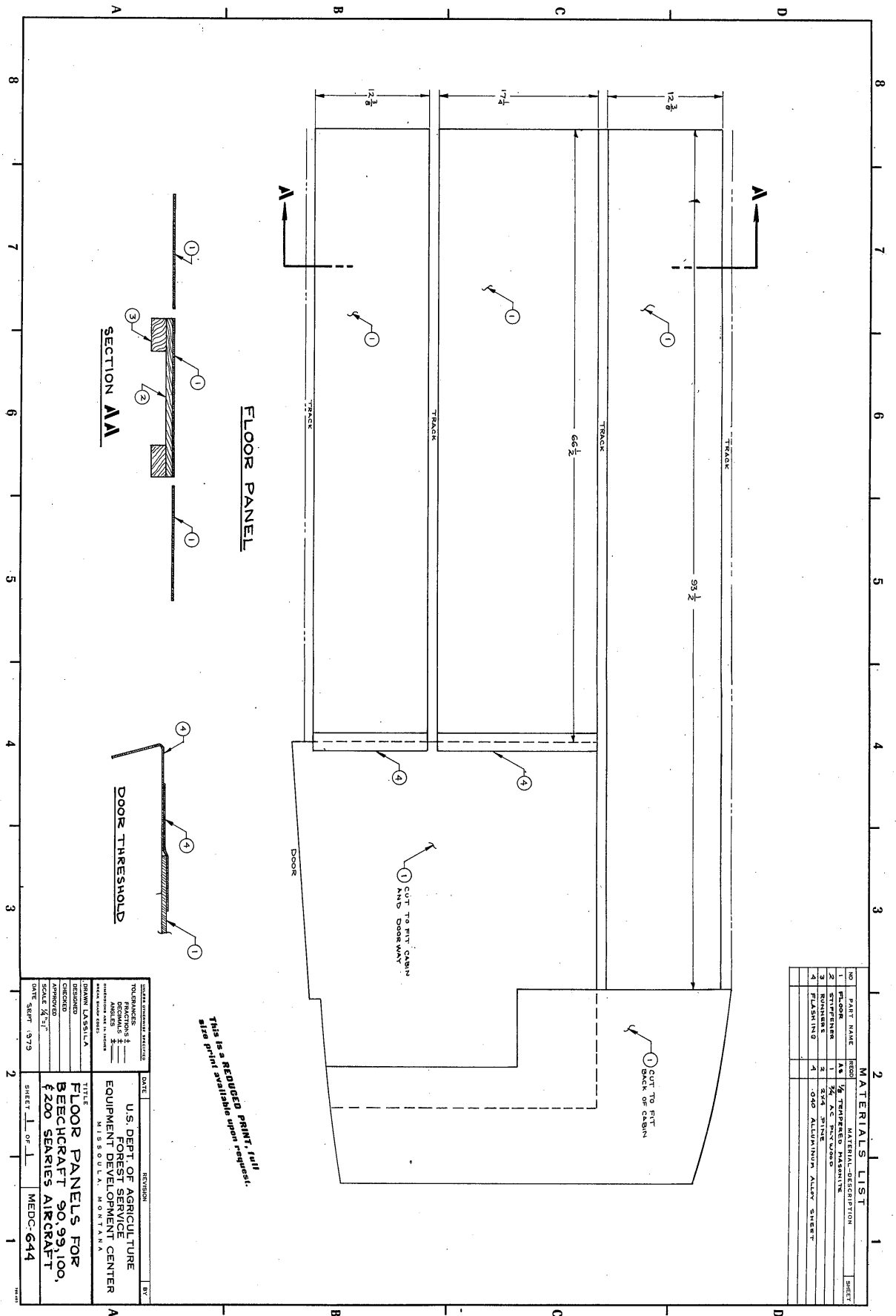


MATERIALS LIST		NO	PART NAME	RECD	MATERIAL-DESCRIPTION	SHEET
1	ANCHOR	2	ANCHOR			
2	END STOP	2	END STOP			
3	SIDE BRACE	2	SIDE BRACE			
4	EYE BOLT	2	EYE BOLT			
5	END BOLT	2	END BOLT			
6	CENTER BOLT	2	CENTER BOLT			
7	PLATE	2	PLATE			
8	STOP	2	STOP			
9	SIDE BRACE	2	SIDE BRACE			
10	EYE BOLT	2	EYE BOLT			
11	END BOLT	2	END BOLT			
12	CENTER BOLT	2	CENTER BOLT			
13	PLATE	2	PLATE			
14	STOP	2	STOP			
15	SIDE BRACE	2	SIDE BRACE			
16	EYE BOLT	2	EYE BOLT			
17	END BOLT	2	END BOLT			
18	CENTER BOLT	2	CENTER BOLT			
19	PLATE	2	PLATE			
20	STOP	2	STOP			
21	SIDE BRACE	2	SIDE BRACE			

U.S. DEPT. OF AGRICULTURE
 FOREST SERVICE
 EQUIPMENT DEVELOPMENT CENTER
 MISSOURI, MONTANA

TITLE
 ANCHOR CABLE
 FOR BECHCRAFT 90, 99, 100 & 200
 NOMAD NZ4A SERIES ARCH AFT

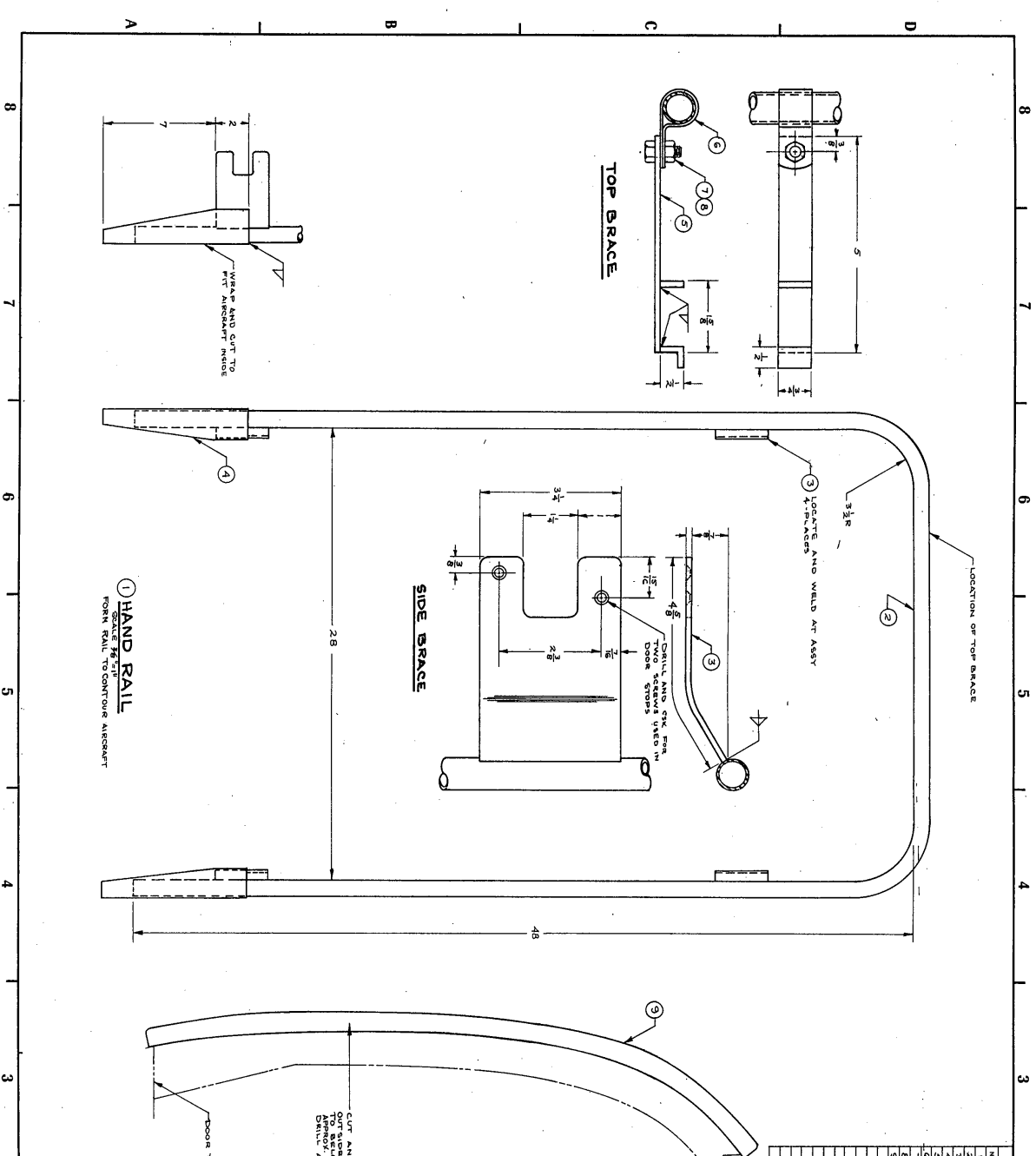
DRAWN BY T. GOTTIE
 CHECKED BY J. H. HANSEN
 APPROVED BY [Signature]
 SCALE FULL
 DATE FEBRUARY 1977
 SHEET 2 OF 2
 MEDC-617



2 MATERIALS LIST 1

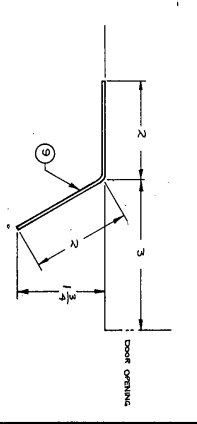
NO	PART NAME	QTY	MATERIAL-DESCRIPTION	SHEET
1	FLOOR	AS	1/2 TEMPERED HARDWOOD	
2	ENTRANCE	2	1/2" X 1/2" X 1/2" ALUMINUM WOOD	
3	DOOR	1	040 ALUMINUM ALLOY SHEET	
4	FLASHING	4	040 ALUMINUM ALLOY SHEET	

DESIGNED BY	DATE	REVISION	BY
CHECKED BY			
APPROVED BY			
SCALE	TITLE		
DATE	U.S. DEPT. OF AGRICULTURE		
	FOREST SERVICE		
	EQUIPMENT LEVEL OF DESIGN		
	MATERIALS SECTION		
	FLOOR PANELS FOR		
	BEECHCRAFT 90, 99, 100,		
	200 SERIES AIRCRAFT		
	MEDC-644		



2 MATERIALS LIST

NO	PART NAME	REQD	MATERIAL-DESCRIPTION	SHEET
1	HAND RAIL	1	FACTS 2-18 (30) GAL. STAINLESS STEEL	
2	SIDE BRACE	4	1/8" X 2 1/2" X 48" GAL. STAINLESS STEEL	
3	TOP BRACE	2	1/8" X 2 1/2" X 48" GAL. STAINLESS STEEL	
4	ENDS	2	1/8" X 2 1/2" X 48" GAL. STAINLESS STEEL	
5	DOOR STOP	2	2088 GALV. INVARVONITE CUSHIONED FOR 3/4" ID	
6	WUT	2	4320 GALV. INVARVONITE FOR 3/4" ID	
7	WIND DEFLECTOR	1	4320 GALV. INVARVONITE FOR 3/4" ID	



CUT AND FOAM WIND DEFLECTOR TO CUT SIDE OF AIRCRAFT FROM RAIN GUTTER APPROX. 2 INCHES FORWARD OF OPENING. ALSO USE AS THRESHOLD.

⑨ WIND DEFLECTOR

This is a REduced PRINT, full size print available upon request.

DESIGNED BY	DATE	REVISION	BY
DRANK LASKINA			
CHECKED			
APPROVED			
DATE SECT 1979			

TOLERANCES:
FRACTIONS ± .005
DECIMALS ± .005
ANGLES ± .5°

DESIGNED BY: DRANK LASKINA
TITLE: HANDRAIL & WIND DEFLECTOR FOR BEECHCRAFT 90, 99, 100, & 200 SERIES AIRCRAFT
SCALE: 3/8" = 1"
DATE SECT: 1979
SHEET: 1 OF 1
MEDC-643

U.S. DEPT. OF AGRICULTURE
FOREST SERVICE
EQUIPMENT DEVELOPMENT CENTER
MISSOULA, MONTANA

Department of Transportation — Federal Aviation Administration
Supplemental Type Certificate

Number SA4047NM

This certificate, issued to USDA Forest Service
Missoula Technology and Development Center

certifies that the change in the type design for the following product with the limitations and conditions therefor as specified hereon meets the airworthiness requirements of Part 23 of the Federal Aviation Regulations.

Original Product — Type Certificate Number: A14CE
Make: Beech
Model: 99A

Description of Type Design Change:
Installation of horizontal anchor track and tether system for cargo spotter.

Limitations and Conditions:

1. This approval should not be extended to other aircraft of this model on which other previously approved modifications are incorporated unless it is determined that the interrelationship between this change and any other previously approved modification will introduce no adverse effect upon the airworthiness of the aircraft.

This certificate and the supporting data which is the basis for approval shall remain in effect until surrendered, suspended, revoked, or a termination date is otherwise established by the Administrator of the Federal Aviation Administration.

Date of application: October 31, 1988

Date reissued:

Date of issuance: April 25, 1989

Date amended:



By direction of the Administrator

Michael H. Borfitz

MICHAEL H. BORFITZ, *(Signature)* Supervisor
Denver Aircraft Certification Field Office
Northwest Mountain Region, Aurora, Colorado
(Title)

Any alteration of this certificate is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 3 years, or both.

This certificate may be transferred in accordance with FAR 21.47.



U.S. Department
of Transportation
Federal Aviation
Administration

NORTHWEST MOUNTAIN REGION
Denver Aircraft Certification Field Office
10455 East 25th Avenue, Suite 307
Aurora, Colorado 80010
(303)370-5575

April 25, 1989

USDA Forest Service
Missoula Technology and Development Center
Building No. 1, Ft. Missoula
Missoula, Montana 59801

Project No. ANM-100D-0188

Gentlemen:

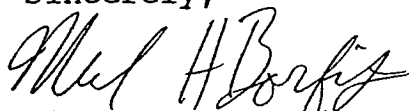
We have completed our evaluation of your Supplemental Type Certificate (STC) project and find that you have satisfactorily demonstrated compliance with the applicable certification regulations. Accordingly, we have enclosed STC No. SA4047NM dated April 25, 1989, for the installation of a horizontal anchor track and tether system for cargo spotter in a Beech Model 99A.

This STC is official FAA approval of your installation and may be used to authorize identical installations on other aircraft of the same model, subject to the limitations noted on the certificate. It may be transferred or otherwise made available to another party by means of a licensee arrangement in accordance with Federal Aviation Regulations (FAR) 21.47. You are requested to advise your local office within 30 days after the transfer when you transfer or grant licensee rights to the STC in order that we may take the necessary recording or reissuance action.

As recipient of this approval, except as provided by FAR 21.3(d), you are required to report any failure, malfunction, or defect in any product or part manufactured by you that you have determined has resulted or could result in any of the occurrences listed in FAR 21.3(c). The report should be communicated initially by telephone to the Supervisor, Denver Aircraft Certification Field Office, telephone number (303) 340-5575, within 24 hours after it has been determined that the failure has occurred. In addition, written notification to the Supervisor at the above address is required. FAA Form 8010-4, Malfunction or Defect Report, or any other appropriate format is acceptable in transmitting the required details.

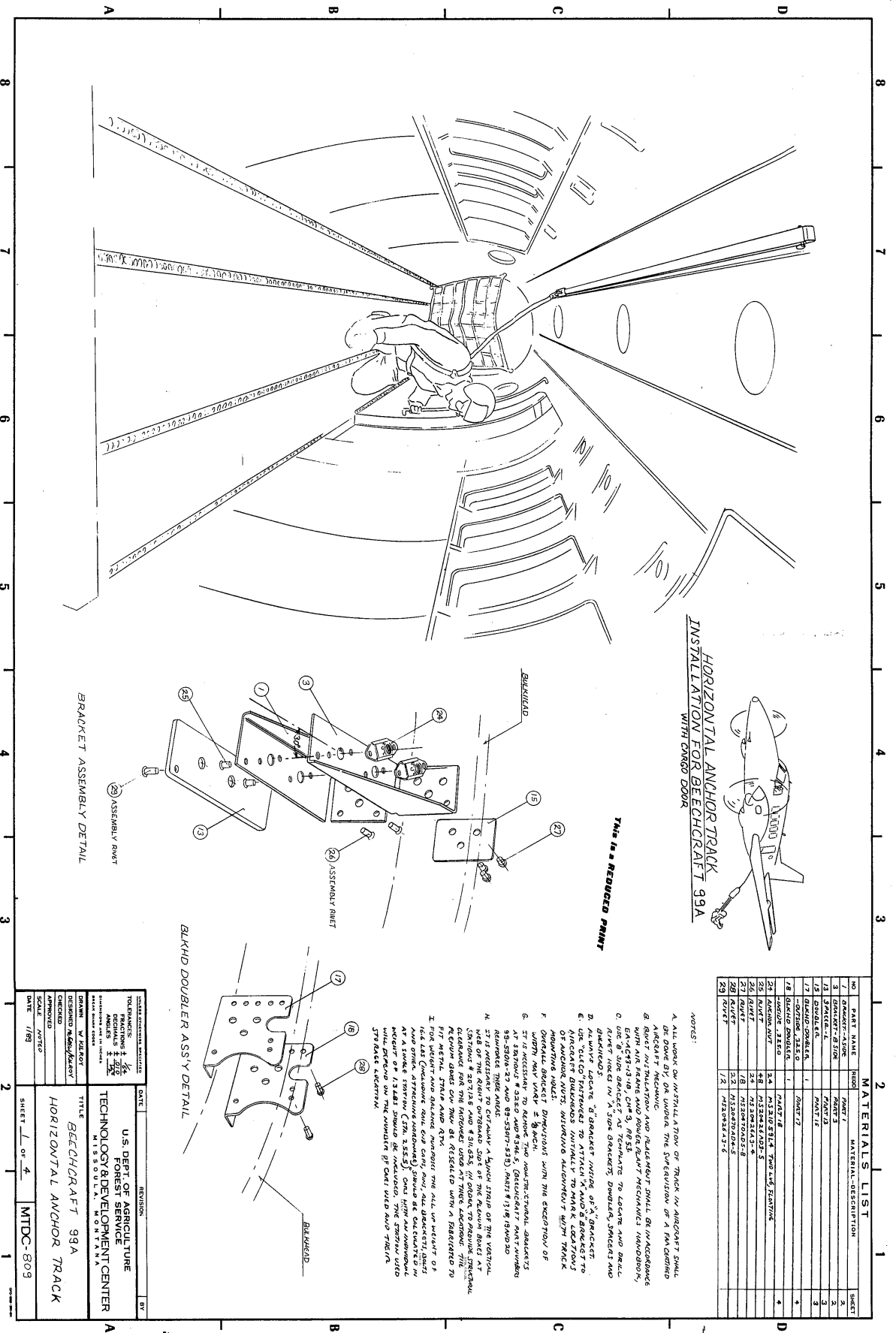
If you plan to manufacture replacement or modification parts for sale in conformance with approved data listed on the Certificate, you are required to comply with FAR Part 21.303. A Parts Manufacturer Approval (PMA) may be issued under the provisions of FAR 21.303(d) when you submit a statement certifying that you have established a fabrication inspection system as required by FAR 21.303(h). The identification requirements for parts produced under a PMA are in FAR 45.15. Your statement may be in letter form, with a reference to the STC number, and should be mailed to the address indicated above.

Sincerely,



Michael H. Borfitz
Supervisor, Denver Aircraft Certification
Field Office

Enclosure



**HORIZONTAL ANCHOR TRACK
INSTALLATION FOR BEECHCRAFT 99A
WITH CONGO DOOR**



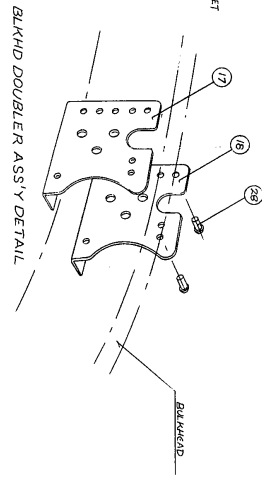
This is a REDUCED PRINT

2 MATERIALS LIST

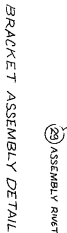
NO.	PART NAME	QTY	MATERIAL-DESCRIPTION	SHEET
1	BRACKET-ASSY	1	BRACKET-ASSY	2
2	BRACKET-ASSY	1	BRACKET-ASSY	2
3	BRACKET-ASSY	1	BRACKET-ASSY	2
4	BRACKET-ASSY	1	BRACKET-ASSY	2
5	BRACKET-ASSY	1	BRACKET-ASSY	2
6	BRACKET-ASSY	1	BRACKET-ASSY	2
7	BRACKET-ASSY	1	BRACKET-ASSY	2
8	BRACKET-ASSY	1	BRACKET-ASSY	2
9	BRACKET-ASSY	1	BRACKET-ASSY	2
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14	BRACKET-ASSY	1	BRACKET-ASSY	2
15	BRACKET-ASSY	1	BRACKET-ASSY	2
16	BRACKET-ASSY	1	BRACKET-ASSY	2
17	BRACKET-ASSY	1	BRACKET-ASSY	2
18	BRACKET-ASSY	1	BRACKET-ASSY	2
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21	BRACKET-ASSY	1	BRACKET-ASSY	2
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23	BRACKET-ASSY	1	BRACKET-ASSY	2
24	BRACKET-ASSY	1	BRACKET-ASSY	2
25	BRACKET-ASSY	1	BRACKET-ASSY	2
26	BRACKET-ASSY	1	BRACKET-ASSY	2
27	BRACKET-ASSY	1	BRACKET-ASSY	2
28	BRACKET-ASSY	1	BRACKET-ASSY	2
29	BRACKET-ASSY	1	BRACKET-ASSY	2

NOTES:

1. ALL WORK ON INSTALLATION OF TRACK IN AIRCRAFT SHALL BE DONE BY OR UNDER THE SUPERVISION OF A TRAINED AIRCRAFT MECHANIC AND INSUREMENT SHALL BE MAINTAINED WITH ALL PARTS AND POWERPLANT REPAIRS HANDLED BY EA-413-13-18, CH 3, PG 51.
2. USE 8.000 BRACKET AS TEMPLATE TO LOCATE AND DRILL HOLES IN A 3.000 BRACKET, DRILLING STRIPS AND BRACKET.
3. ALWAYS LOCATE 8 BRACKET INSIDE OF A BRACKET.
4. USE "CLECO" INSTRUMENT TO ATTACH 8 AND 8 BRACKET TO AIRCRAFT STRUCTURE TO PREVENT TRACK FROM MOVING IN HORIZONTAL DIRECTION.
5. DRILL ALL BRACKET DIMENSIONS WITH THE EXCEPTION OF WIDTH AND VARY ± 0.000 IN.
6. AT SPOUSE # 3256 AND #345, DRILL CENTER POINT NUMBER 89-5801-27 AND 89-5801-333, PART # 119, 18 AND 20.
7. DRILL CENTER POINT NUMBER 89-5801-27 AND 89-5801-333, PART # 119, 18 AND 20.
8. STIFFNESS OF TRACK IS ASSURED BY THE LOCATION OF THE TRACK AT SPOUSE # 3256 AND #345 IN ORDER TO PREVENT TRACK CLEARANCE FOR THE BRACKET USED AT THIS LOCATION. THE TRACK MUST BE LOCATED WITH A BRACKET TO THE RIGHT OF THE BRACKET TO BE INSTALLED TO THE LEFT OF THE BRACKET TO BE INSTALLED.
9. THE WEIGHT AND BALANCE POINTS THE ALL IN WEIGHT OF THE TRACK AND BRACKET SHALL BE 1.5 LBS. (1.5 LBS. AT A POINT 1.5 IN FROM THE CENTER OF THE TRACK) AND WILL BE 1.5 LBS. (1.5 LBS. AT A POINT 1.5 IN FROM THE CENTER OF THE TRACK) AND WILL BE 1.5 LBS. (1.5 LBS. AT A POINT 1.5 IN FROM THE CENTER OF THE TRACK).
10. THE WEIGHT AND BALANCE POINTS THE ALL IN WEIGHT OF THE TRACK AND BRACKET SHALL BE 1.5 LBS. (1.5 LBS. AT A POINT 1.5 IN FROM THE CENTER OF THE TRACK) AND WILL BE 1.5 LBS. (1.5 LBS. AT A POINT 1.5 IN FROM THE CENTER OF THE TRACK).



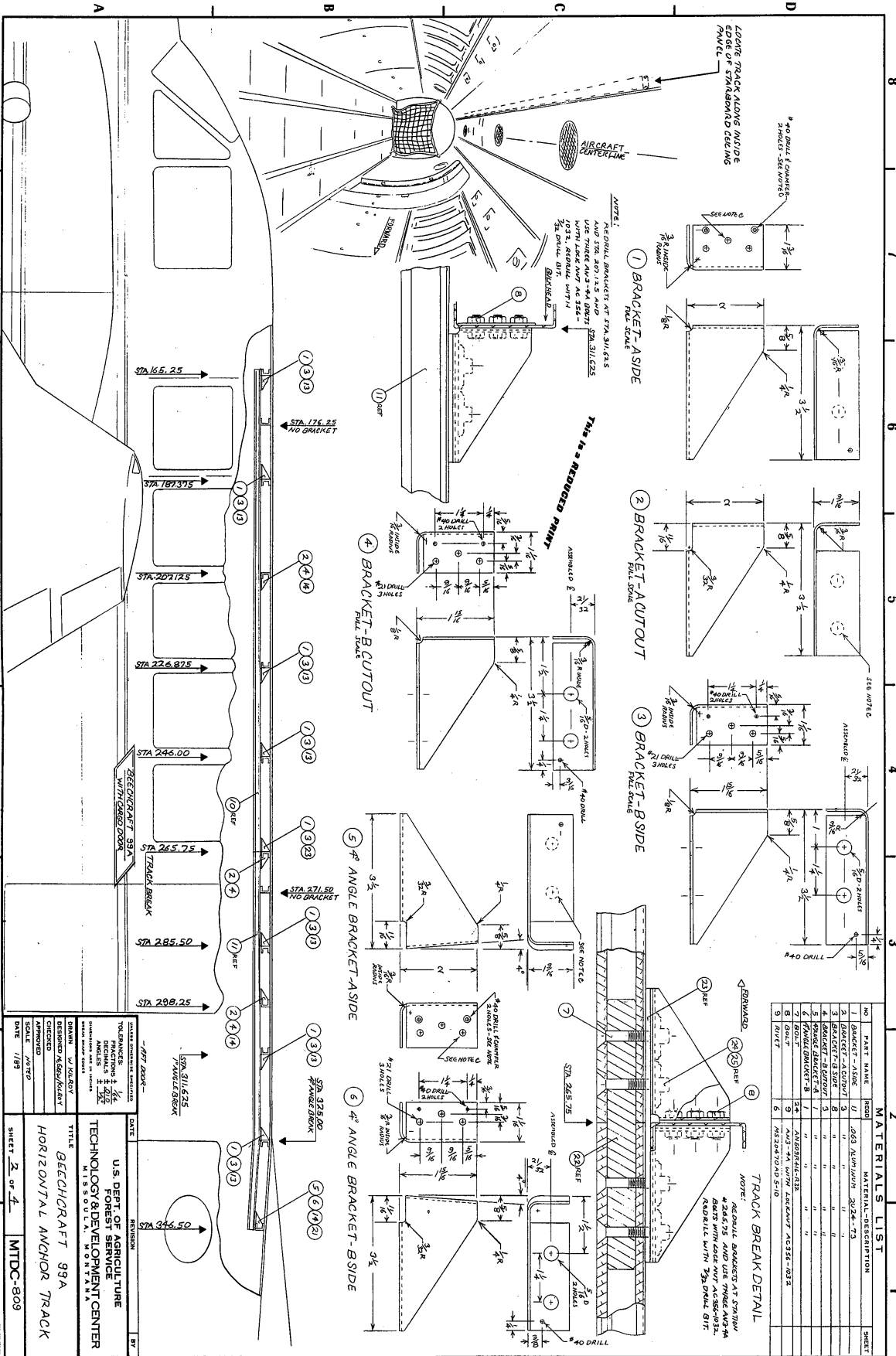
BLKHID DOUBLER ASS'Y DETAIL



BRACKET ASSEMBLY DETAIL

NO.	REVISION	DATE	BY
1			
2			

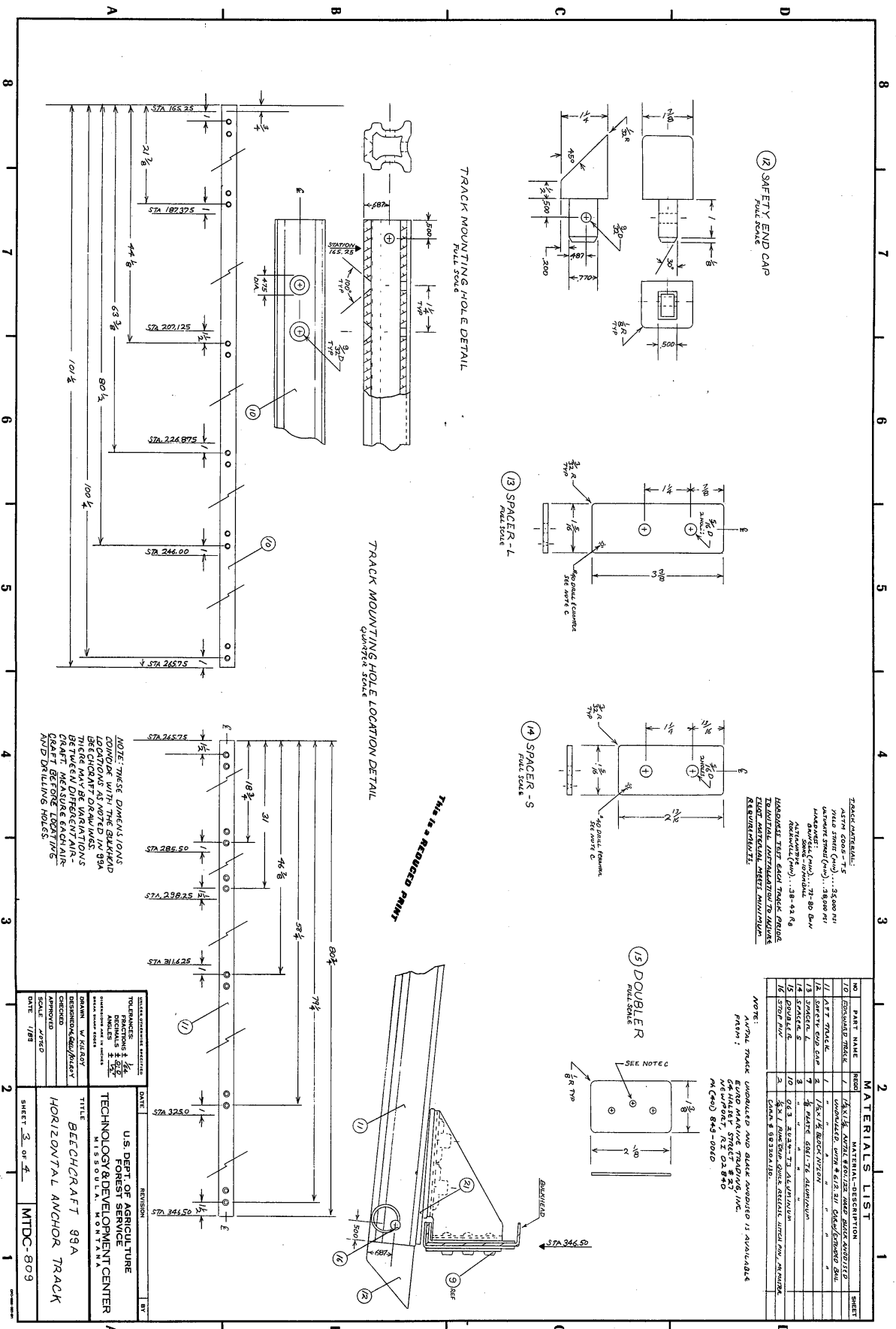
U.S. DEPT. OF AGRICULTURE
 TECHNOLOGY DEVELOPMENT CENTER
 RESEARCH AND DEVELOPMENT CENTER
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2 MATERIALS LIST

NO	PART NAME	REQD	MATERIAL DESCRIPTION	SHEET
1	BRACKET - ASIDE	11	6061 ALUMINUM 2024-T3	1
2	BRACKET - B-SIDE	8	"	1
3	BRACKET - A-OUTLET	3	"	1
4	ANGLE BRACKET - A	1	"	1
5	ANGLE BRACKET - B	1	"	1
6	TRUCK BREAK	1	ASSIGNATIONS	1
7	DRILL	5	4140 WITH ANGLE CUT AC35-032	1
8	WELD	6	MS20270-510	1

DESIGNED BY	W. J. WILSON
CHECKED BY	R. G. KELLEY
APPROVED BY	
DATE	1/83
PROJECT NO.	
REVISION	
BY	
DATE	
TITLE	BEECHCRAFT 99A
	HORIZONTAL ANCHOR TRACK
	MISSOULA, MONTANA
	TECHNOLOGY & DEVELOPMENT CENTER
	FOREST SERVICE
	U.S. DEPT. OF AGRICULTURE
	DESIGNED BY
	W. J. WILSON
	DATE
	1/83
	MTDC-809
	SHEET 2 OF 4



(12) SAFETY END CAP
FULL SCALE

(13) SPACER - L
FULL SCALE

(14) SPACER - S
FULL SCALE

(15) DOUBLER
FULL SCALE

TRACK CENTERLINE:
 5000 FT
 1/2 MILE (5000 FT) ... 35000 FT
 DISTANCE FROM (MILE) ... 18000 FT
 TRACK WIDTH (MILE) ... 71-80 FT
 TRACK WIDTH (MILE) ... 71-80 FT
 TRACK WIDTH (MILE) ... 71-80 FT
 TRACK WIDTH (MILE) ... 71-80 FT

NO.	PART NAME	QUANTITY	DESCRIPTION
10	SAFETY END CAP	1	SAFETY END CAP
11	SPACER - L	1	SPACER - L
12	SPACER - S	1	SPACER - S
13	DOUBLER	1	DOUBLER
14	ANCHOR	1	ANCHOR
15	TRACK	1	TRACK
16	TRACK	1	TRACK

NOTE: TRACK MOUNTING AND SPACER ARE AVAILABLE FROM:
 END MARKING TRAINING, INC.
 54 HALEY STREET #20
 NEWPORT, RI 02840
 M (401) 842-0900

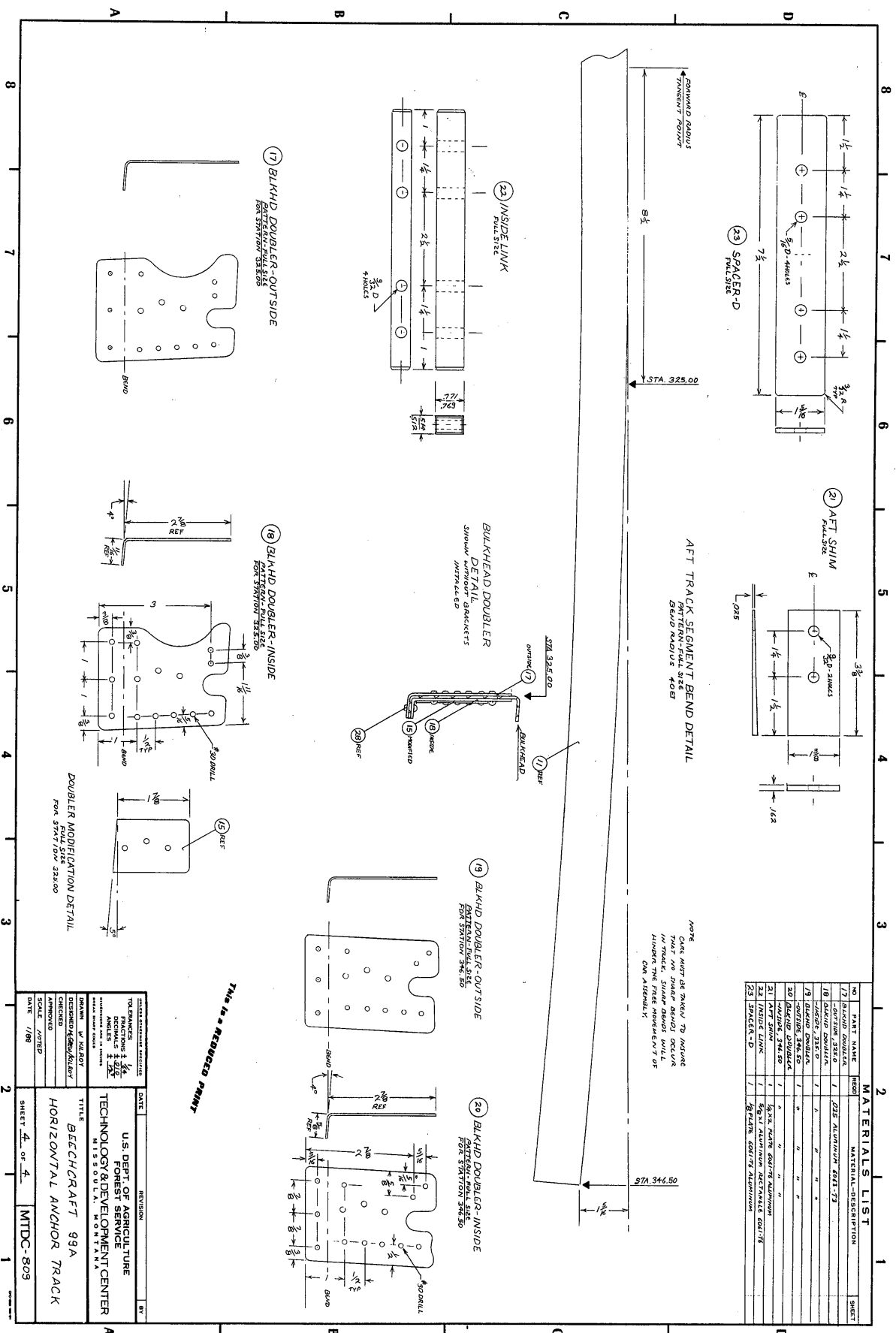
NOTE: THESE DIMENSIONS CONFORM WITH THE BENCHMARK BECHCRAFT OR DIMENSIONS. THERE MAY BE VARIATIONS BETWEEN DIMENSIONS BE TWEEN DIFFERENT PARTS BEFORE LOCATING AND DRILLING HOLES.

NO.	DATE	REVISION	BY
1	1/78		

U.S. DEPT. OF AGRICULTURE
 FOREST SERVICE
 TECHNOLOGY & DEVELOPMENT CENTER
 MISSOURI, KENTUCKY

TITLE: BECHCRAFT 89A
 HORIZONTAL ANCHOR TRACK

SHEET 3 OF 4 MTDG-809



MATERIALS LIST

NO	PART NAME	REQD	MATERIAL-DESCRIPTION	SHEET
17	INSIDE LINK	1	0.05 ALUMINUM 6061-T3	
18	INSIDE DOUBLER	1	"	
19	OUTSIDE DOUBLER	1	"	
20	OUTSIDE DOUBLER	1	"	
21	AFT SHIM	1	0.05 ALUMINUM 6061-T3	
22	SPACER-D	1	0.05 ALUMINUM 6061-T3	
23	INSIDE LINK	1	0.05 ALUMINUM 6061-T3	

DESIGN REVISIONS

NO	DATE	REVISION
1		

DESIGNER: W. K. ROY
CHECKED: J. J. ROY
DATE: 1/88

TITLE: BECHCRAFT 99A HORIZONTAL ANCHOR TRACK

PROJECT: MISSOURI, MONTANA

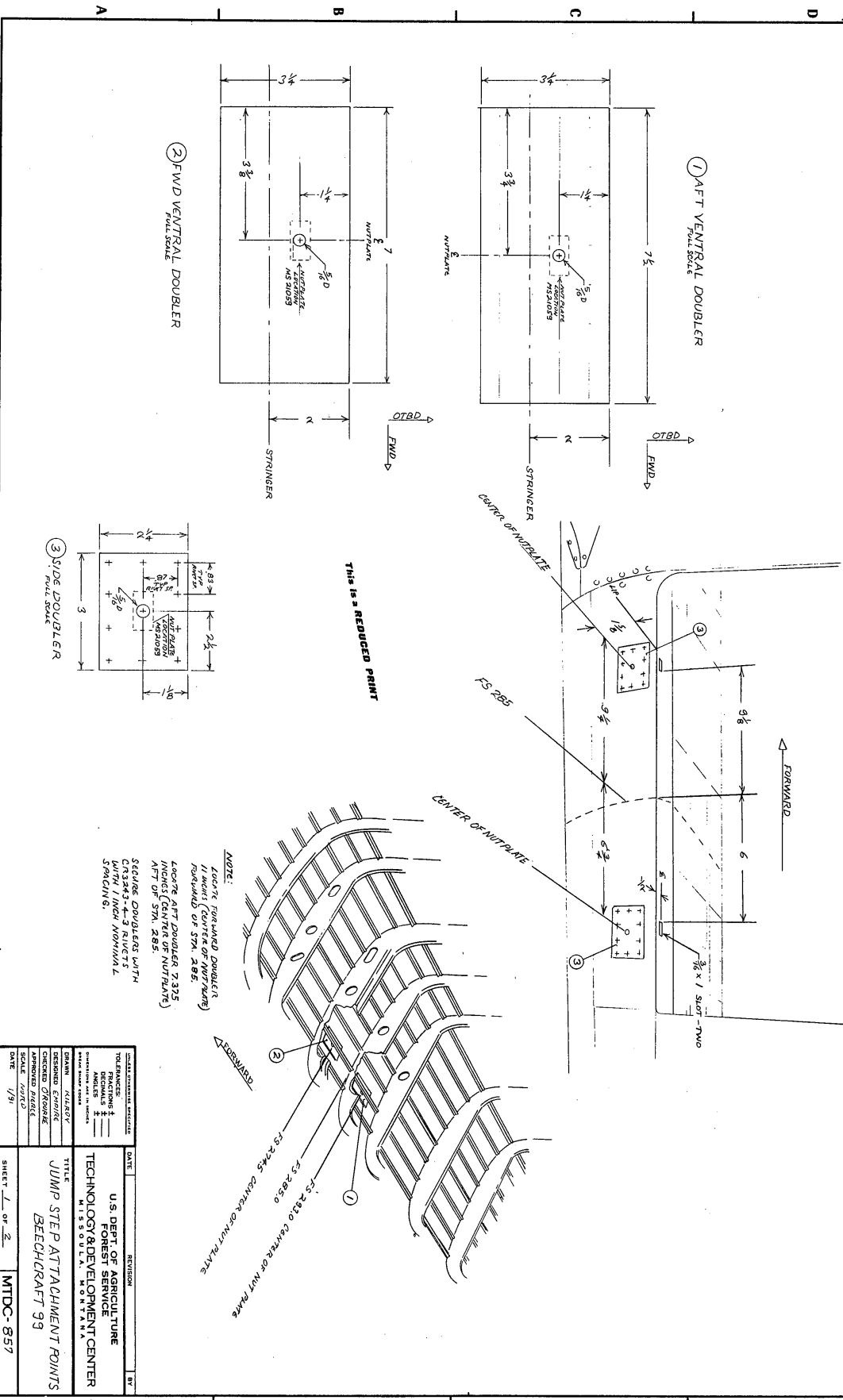
U.S. DEPT. OF AGRICULTURE FOREST SERVICE TECHNOLOGY & DEVELOPMENT CENTER MISSOURI, MONTANA

MTDC-805

This is a reduced print

NO.	PART NAME	QTY	MATERIAL DESCRIPTION	SHEET
1	AFT VENTRAL DOUBLER	1	603 ALUMINUM 2024-T3	
2	FWD VENTRAL DOUBLER	1	"	
3	SIDE DOUBLER	2	"	

2 MATERIALS LIST



THIS IS A REDUCED PRINT

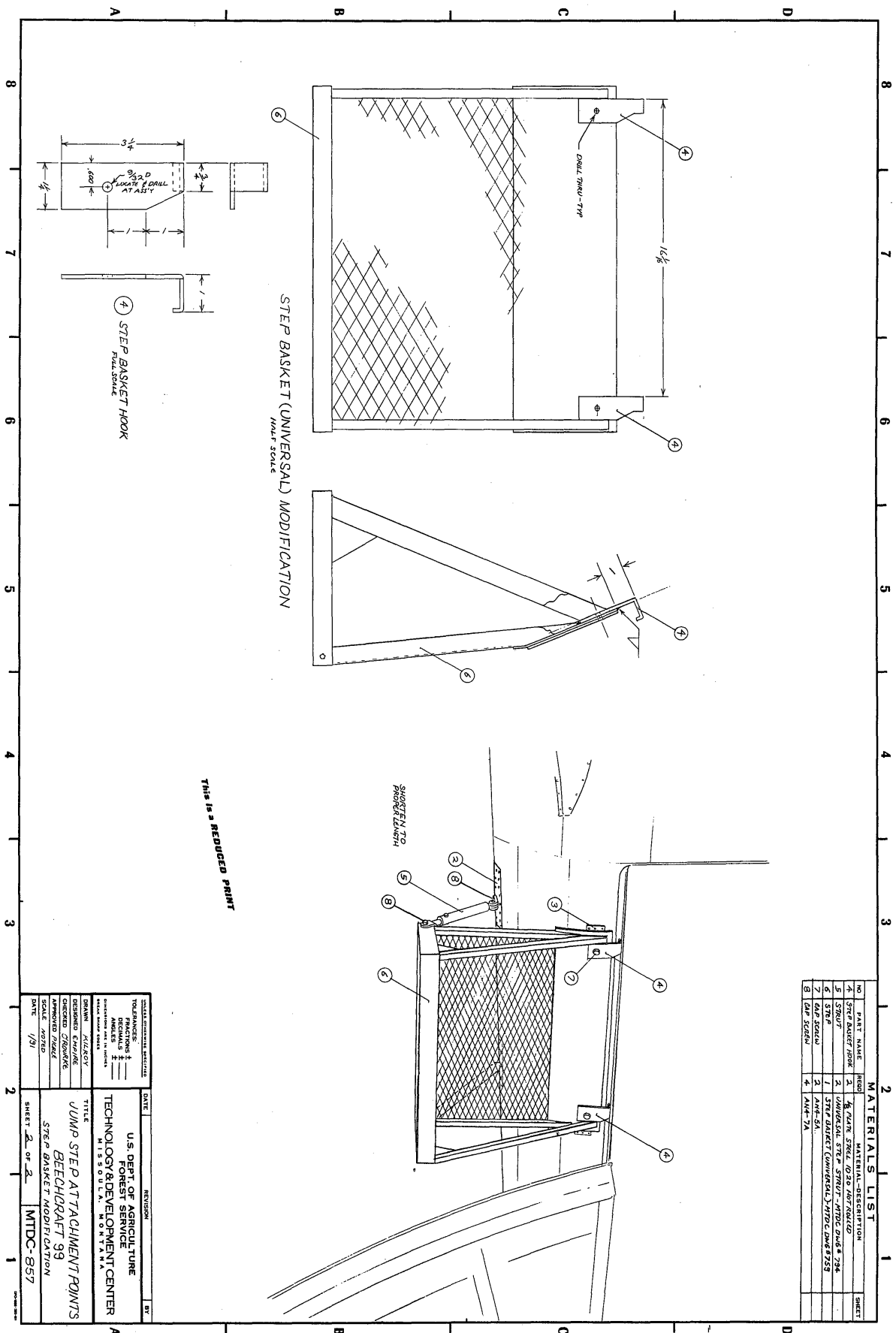
NOTE:
 LOCATE FOR WIND DOUBLER
 1/4 INCH (CENTER OF WINDING)
 FORWARD OF STN. 285.
 LOCATE AFT DOUBLER 7.325
 INCHES (CENTER OF NUT PLATE)
 AFT OF STN. 285.
 SECURE DOUBLERS WITH
 CR3343-4-3 RIVETS
 WITH 1/4 INCH NOMINAL
 SPACING.

NO.	REVISION	DATE
1		
2		

DESIGNED BY: J. B. BEECHER
 CHECKED BY: J. B. BEECHER
 APPROVED BY: J. B. BEECHER
 DATE: 1/31

TITLE: JUMP STEP ATTACHMENT POINTS
 BEECHER 99

SHEET 1 OF 2 MTDC-857



2 MATERIALS LIST 1

NO.	PART NAME	QTY	MATERIAL-DESCRIPTION
1	STEP BASKET BODY	1	PLAIN STEEL 1020 (ASTM A102)
2	SCREEN	1	PLAIN STEEL 1020 (ASTM A102)
3	STEP BASKET (UNIVERSAL) TYPE 848239	1	
4	ATT. HOOK	1	
5	ATT. SCREW	4	

THIS IS A REDUCED PRINT

TOTAL APPROVED SHEETS: 2 THIS SHEET IS: 2 SHEET NO. OF TOTAL: 2 DATE: 1/31		REVISION: _____ BY: _____ DATE: _____	
DRAWN: MILANOY CHECKED: CHAMBERLAIN APPROVED: WATKINS DATE: 1/31		TITLE: JUMP STEP ATTACHMENT POINTS BEECHDQALTT 99 STEP BASKET MODIFICATION	
U.S. DEPT. OF AGRICULTURE FOREST SERVICE TECHNOLOGY & DEVELOPMENT CENTER MISSOULA, MONTANA		PROJECT NO.: _____ DRAWING NO.: _____ SHEET NO. OF TOTAL: 2 DATE: 1/31	