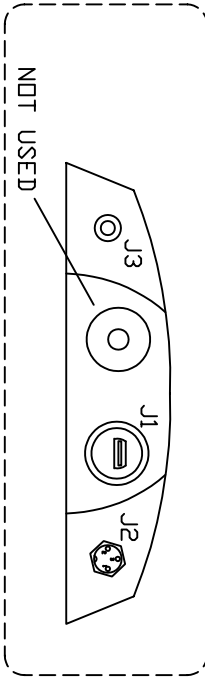


NOTES:

- 1) IF AFF CIRCUIT BREAKER IS NOT PREVIOUSLY INSTALLED, LOCATE CIRCUIT BREAKER ITEM 14 IN FORWARD CB PANEL LOWER RAIL AND LABEL AS SHOWN. PLACARD TO HAVE .13 HIGH TEXT IN CONTRASTING COLOR TO THE BACKGROUND. PLACARD SHALL NOT BE EASILY DISFIGURED OR OBSCURED. EXISTING AFF CIRCUIT BREAKER MAY BE UTILIZED IF ALREADY INSTALLED.
- 2) PICK UP EXISTING GROUND STUD (DO NOT EXCEED 3 TERMINATION) OR BUILDUP GROUND STUD PER AC 43.13 SECTION 3, PARA. 452 OR MIL-W-5088 SECTION 3.12. ENSURE THAT SYSTEM TYPE (I.E. AC, DC, STATIC) ARE NOT MIXED.
- 3) INSTALL SHIELD TERMINATION (ITEM 8) PER THE CONNECTIVITY SPECIFICATION ROPS-100-70. GROUND SHIELD DRAIN (ITEM 8) PER NOTE 2. SHIELD DRAIN SHOULD BE KEPT AS SHORT AS PRACTICAL AND SHALL NOT EXCEED 6 INCHES. USE ITEM 8 WITH ITEM 6 CABLE AND ITEM 10 CABLE.
- 4) EXISTING EQUIPMENT.
- 5) ROUTE ATU WIRES PER THE FOLLOWING GUIDANCE:
 - 1) ROUTE WIRES PER SHEET 5.
 - 2) THESE WIRES IF ROUTED NEAR FUEL OR HYDRAULIC LINES MUST BE POSITIVELY SEPARATED BY 6 INCHES OR BY TWO LOOP CLAMPS PER AC 43.13-18 SECTION 11-126.
 - 3) USE ITEMS 13 TO SECURE AND PROTECT WIRES.
 - 4) GENERAL ROUTING GUIDANCE:
 - PICK UP EXISTING WIRE RUNS BY OPENING EXISTING CABLE CLAMPS.
 - NYLON TIES ALONE MAY NOT BE USED FOR PRIMARY SUPPORT.
 - NEW WIRE RUNS SHOULD BE SUPPORTED WITH MS21919WDG(SIZE) LOOP CLAMPS.
 - THE DISTANCE BETWEEN SUPPORTS SHOULD NOT EXCEED 21 INCHES.
 - BEND RADIUS OF WIRE OR HARNESS MUST BE GREATER THAN 10 TIMES THE WIRE OR HARNESS DIAMETER.
 - INSPECT AND VERIFY THAT THE WIRE HARNESS MAY NOT BE MANUALLY DEFLECTED INTO A STRUCTURE WITH A BEND RADIUS LESS THAN .125".
 - 5) STAGGER ALL SPLICES TO REDUCE BUILD UP OF HARNESS DIAMETER.
- 6) LABEL SHIP SIDE CONNECTOR AS SHOWN.
- 7) INSTALL ANTENNA ON UPPER PORTION OF CABIN CENTER LINE MAINTAINING 24 INCHES OF SEPARATION FROM OTHER ANTENNAS PER AC 43-13-2A SECTION 3C. THE ANTENNA SHALL BE PROPERLY BOUNDED TO THE AIRCRAFT GROUND PLANE (.2.5 mill. shm) TO AID IN ELIMINATING UNWANTED INTERFERENCE. SURFACE PREPARATION SHOULD INCLUDE THE USE OF ALDINE 1001 OR SIMILAR. EXTERNAL ANTENNA OPTIONAL AT INSTALLERS DISCRETION, DO NOT INSTALL ITEMS 12, 15, 19 AND 20 IF EXTERNAL OPTION NOT UTILIZED.
- 8) ADC TRANSFER FUNCTION: .50 VDC = 0 LBS, 5.00 VDC = 11,023 LBS (5000kg).
- 9) THIS CONNECTOR MAY BE PROVIDED IN AFF SPIDERTRACKS KIT. IF UTILIZED CUT CABLE TO 6 INCHES AND SPLICE IN (PER NOT 17) ITEM 5 WIRES AND DISCARD CIGARETTE LIGHTER PORTION.
- 10) STAGGER THESE SPLICES TO AVOID DIAMETER BUILDUP. COVER ALL 3 SPLICES WITH ITEM 18 SHRINK SLEEVE. EXTENDING 1 INCH BEYOND SPLICE AREA. LOCATE SPLICE AREA WITHIN 12 INCHES OF ITEM 4 (AFF)
- 11) CUSTOMER FURNISHED SWITCH.
- 12) ALL WIRE IS ITEM 5 UNLESS OTHERWISE NOTED.
- 13) PRIOR TO INSTALLATION, LABEL ITEM 4 RECEPTACLES AS SHOWN IN DETAIL B. OBSCURE ITEM 4 GREEN LEDS (3 PLACES) (ON TOP OF UNIT) WITH A SELF-ADHESIVE PLACARD TO PRECLUDE GLARE ON WINDSCREEN. NOTE: FIRMWARE 2.8.4.2 OR LATER IS REQUIRED.
- 14) INSTALL ITEM 4 BY MATCH DRILLING THE .120 DIA. HOLES (4 PLACES) IN THE ITEM 4 MOUNT PLATE ONTO THE STRUCTURE LOCATED PER SHEET 5. UTILIZE AN 4-40 OR M5 FASTENERS.

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- 15) OPTIONAL: MS26574-1
- 16) INSTALL PER MANUAL 606-E1-100 AT THE LOCATION SHOWN ON SH5. FIRMWARE: 606-S1-004-MOD1]
- 17) CREATE LAP SPLICES BY OVERLAYING .5" OF EXPOSED CONDUCTORS. SOLDER THIS OVERLAY USING KESTER 60S-571 SNGO SOLDER OR EQUIVALENT WITH AN IRON TEMP OF 700-800°F. COVER THIS SOLDER SPLICE (AND COMPONENT) WITH MIL-T-81786/4 OR EQUIVALENT SHRINK SLEEVE. VERIFY THAT LAP JOINT IS NOT PITTED OR GRAY AFTER SOLDERING. OPTIONALLY INSTALL ITEM 3 ENV. SPLICES.

CUSTOMER CONFIGURATION	SAMPLE
AIRCRAFT N NUMBER(S)	N7115S (UH-1H)
AFF	SPIDERTRACKS
LOAD CELL	MSI
DELIVERY	BUCKET/TANK

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DRAWN BY	DATE	
M. REYNOLDS	09/18/15	
CHECKED BY	DATE	
D. BARKTON	09/18/15	
DECIMAL ANGULARS		
TOLERANCES X = .06	42°	
EXCEPT AS NOTED		
NOTED: .004 = .03		
ENGINEERING CHANGE ORDER		
ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED	SIZE	B
	SCALE	NTS
	SHEET	1 OF 5

Olympic Aero Services, Inc.
3245 75th Ave SE, Olympia WA 98501

ADDITIONAL TELEMETRY UNIT (ATU) WIRE DIAGRAM

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PARTS LIST				
ITEM	DESCRIPTION	QTY-3	PART NUMBER	VENDOR/SPECIFICATION
1	CONNECTOR-PLUG	2	MS3476L12-10S	OPTIONAL: PT06A12-10S-SR (1A NOT RQD)
1A	BACKSHELL	2	M85049/52-1-12N	
2	CONNECTOR-PLUG	1	MS3476L14-19S	OPTIONAL: PT06A14-19S-SR (2A NOT RQD)
2A	BACKSHELL	1	M85049/52-1-14N	
3	ENVIRONMENTAL SPLICE	3	D-436-37	M81824/1-2
4	AFT-SPIDER 8	1	600058 (int) or (ext)	SPIDER TRACKS LIMITED
5	WIRE-SINGLE CONDUCTOR-XX AWG	AR	M22759/16-XX	XX INDICATES WIRE AWG. SEE FACE OF DIAGRAM
6	CAN 24 - CAN BUS WIRE	AR	CAN24TST120	
7	RESERVED			
8	SHIELD TERMINATION	6	S02-04-R	RAYCHEM (MEETS M83519/2)
9	RESERVED			
10	WIRE-SHIELDED 2 COND.	AR	M27500-22TET14	
11	ADDITIONAL TELEMETRY UNIT	1	606-E2-200-4	OLYMPIC AERO SERVICES INC.
12	IRIDIUM/GPS ANTENNA	1	S67-1575-109	SENSOR SYSTEMS
13	NYLON TIE	AR	TYH, TYV, TY-X, TYZ SERIES	THOMAS AND BETTS
14	CIRCUIT BREAKER 1A	1	MS3320-1	
15	COAXIAL CABLE	AR	RG-178	RG-142 OPTIONAL
16	CONNECTOR-3 CONTACTS	1	99 3400 00 03	BINDER USA
17	CONNECTOR-USB MINI B	1	PX0441	BULGIN (LENGTH AS REQUIRED)
18	SHRINK SLEEVE	AR	RNF-100-1/4-BK-S1K	TYCO ELECTRONICS
19	TNC COAXIAL CONNECTOR (RG178 CABLE)	1	PE4448	PASTERNAK
20	SMA COAXIAL CONNECTOR (RG178 CABLE)	1	PE4861	PASTERNAK
21	GENERAL PURPOSE DIODE	5	IN4007 OR EQUIV.	

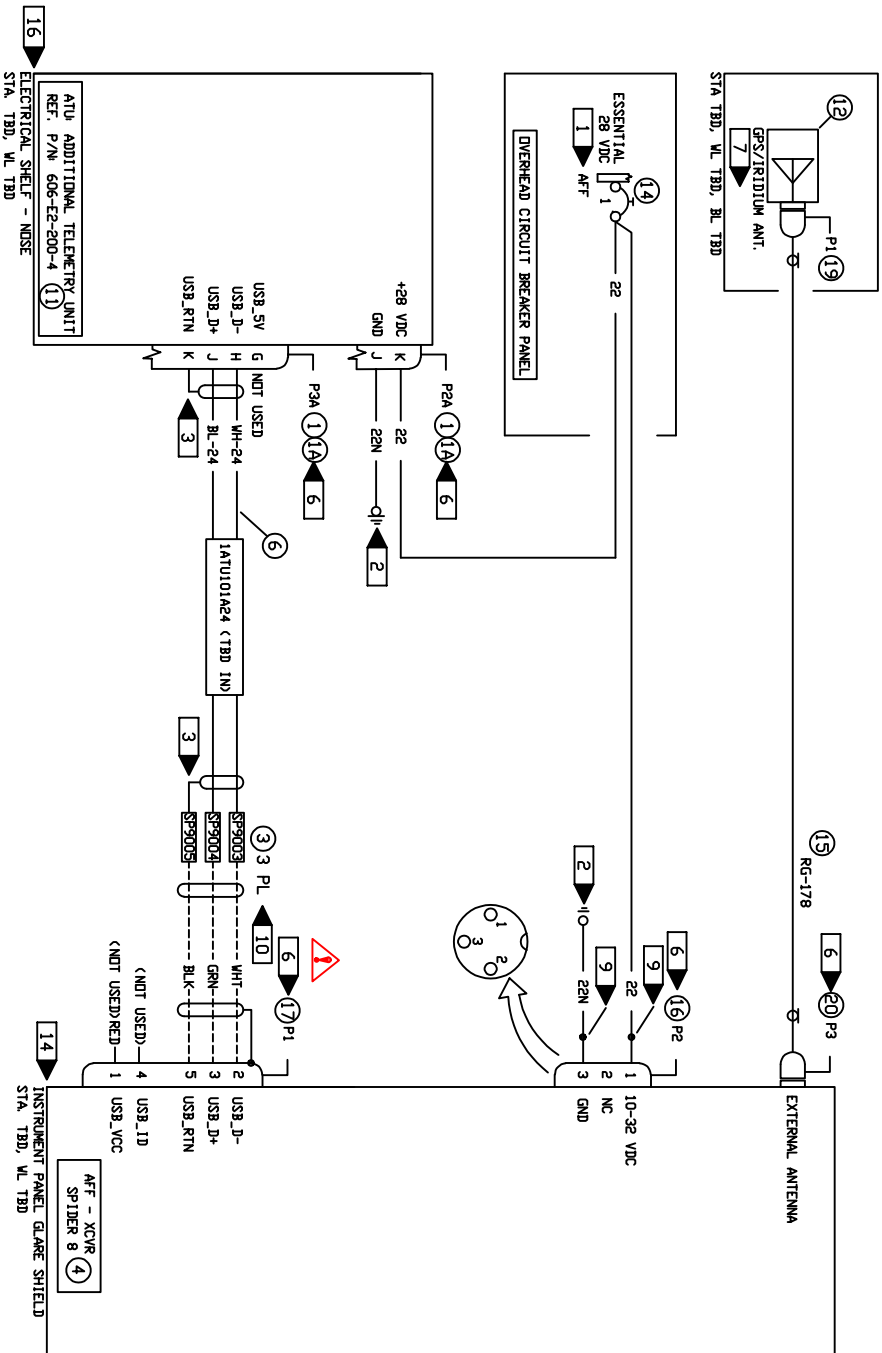
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DRAWN BY M. REYNOLDS CHECKED BY D. BARKTON	DATE 09/18/13 DATE 09/18/13	DRAWING NO. ECO-606-W1-003-E-112321 SIZE B	COMPANY Olympic Aero Services, Inc. ADDRESS 3245 75th Ave SE, Olympia WA 98501	REV. IR SHEET 2 OF 5
TOLERANCES X = .06 Y = .03 Z = .03 UNLESS OTHERWISE NOTED	DECIMAL ANGLES 42°	ADDITIONAL TELEMETRY UNIT (ATU) WIRE DIAGRAM		

ENGINEERING CHANGE ORDER

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
IR	SEE SHEET 1	4 FEB 2022	M. RENOLDS

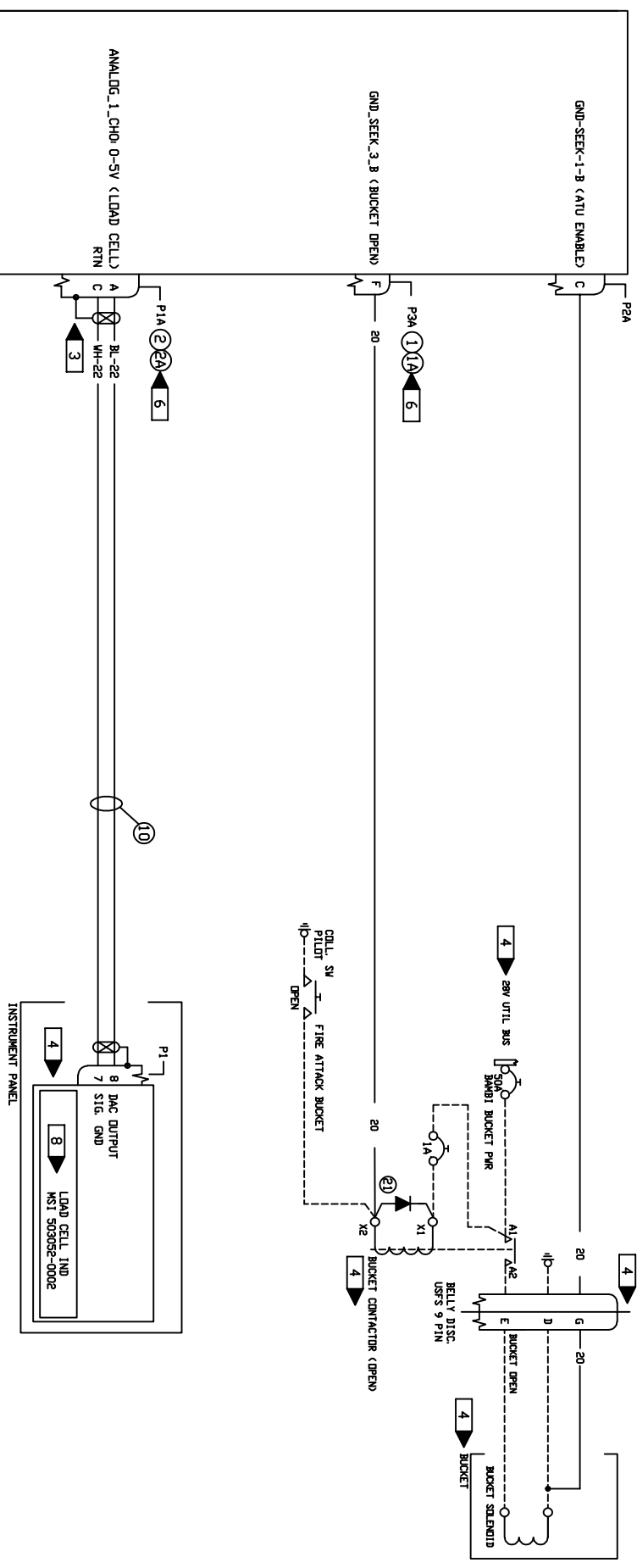


DO NOT USE THE USB CONNECTOR PROVIDED IN THE SPIDERTRACKS KIT--THE SYSTEM WILL NOT FUNCTION CORRECTLY. USE ITEM 17

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CHECKED BY D. BARKTON	DATE 09/18/18	
DECIMAL ANGULARS		ADDITIONAL TELEMETRY UNIT (ATU) WIRE DIAGRAM
TOLERANCES: X = .06 XX = .03 EXCEPT AS NOTED: .004 = .008	42°	
ENGINEERING CHANGE ORDER		REV. IR
ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED	SIZE B	SCALE NTS
		SHEET 3 OF 5

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
IR	SEE SHEET 1	4 FEB 2022	M. RENOLDS

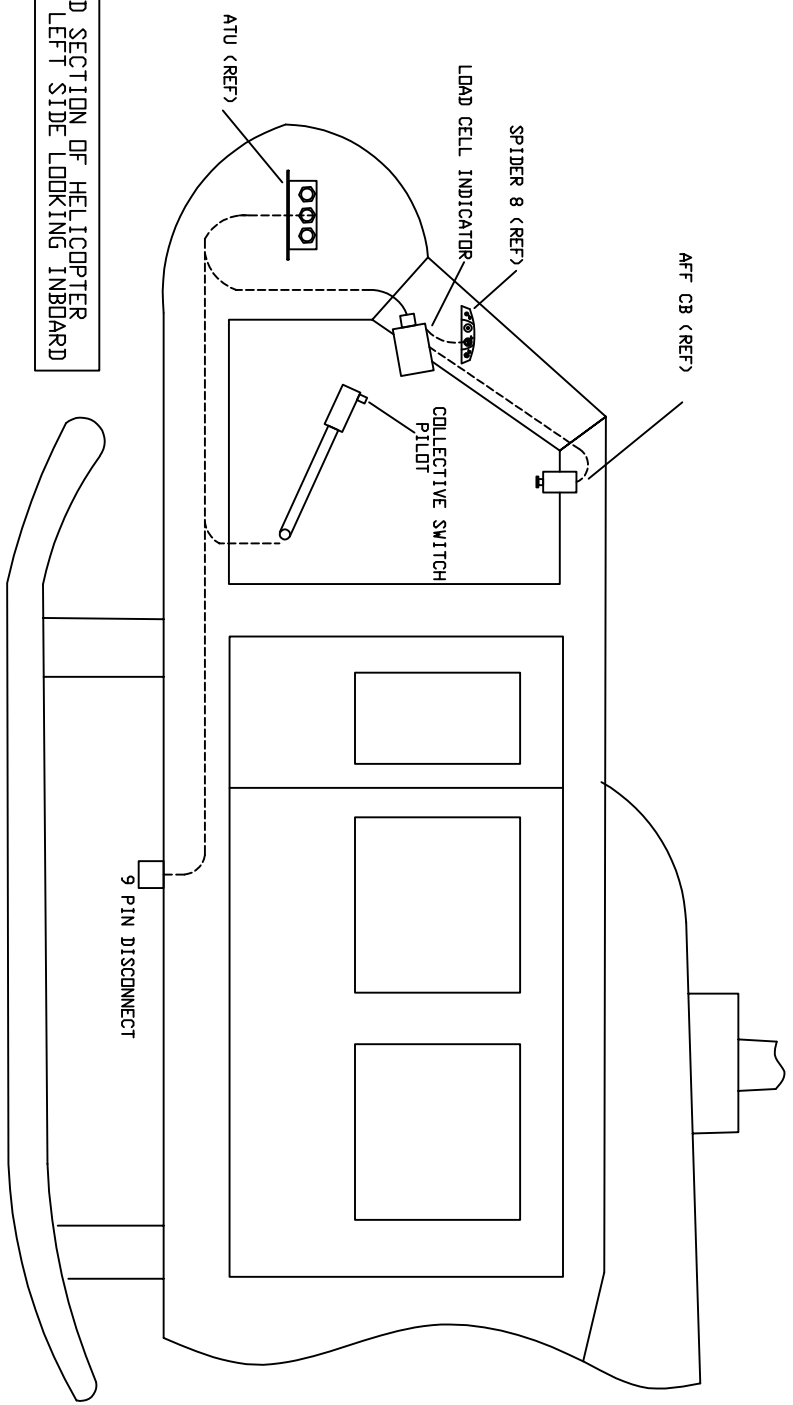


ATU ADDITIONAL TELEMETRY UNIT
 REF. P/N 606-E2-200-4 (1) REF
 ELECTRICAL SHELF - NOISE
 STA. TBD, WL TBD

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DRAWN BY M. RENOLDS	DATE 09/18/13	Olympic Aero Services, Inc. 3245 75th Ave SE, Olympia WA 98501
CHECKED BY D. BARKTON	DATE 09/18/13	
DECIMAL ANGULAR TOLERANCES: X = .06 42° EXCEPT AS NOTED: .XXX = .03 .XXX = .008		ADDITIONAL TELEMETRY UNIT (ATU) WIRE DIAGRAM
ENGINEERING CHANGE ORDER ECO-606-W1-003-E-112321		
ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED	SIZE B	SCALE NTS
		SHEET 4 OF 5

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
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FORWARD SECTION OF HELICOPTER
VIEW FROM LEFT SIDE LOOKING INBOARD

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ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED		ENGINEERING CHANGE ORDER		OLYMPIC AERO SERVICES, Inc. 3245 75th Ave SE, Olympia WA 98501	SCALE NTS	SHEET 5 OF 5	REV. IR