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1

GENERAL NOTES

1. THIS DRAWING WAS DEVELOPED FOR THE ACCOMPLISHMENT OF HABITABILITY IMPROVEMENT, BASED ON THE SHIPCHECK OF USS DONALD COOK (DDG 75). AN APPLICABILITY SHIPCHECK IS REQUIRED PRIOR TO ITS USE ON OTHER SHIPS OF THIS CLASS.

2. THIS DRAWING IS BASED UPON THE REQUIREMENTS OF NAVSEA S9AA0-AB-GOS-010/GSO, GENERAL SPECIFICATION FOR OVERHAUL OF SURFACE SHIPS (GSO), WHOSE PROVISIONS SHALL PREVAIL IN AREAS WHERE THIS DRAWING IS SILENT.

3. EXCEPT WHERE OTHERWISE NOTED OR APPROVED BY NAVSEA, THE EFFECTIVE DATE OF REFERENCED SPECIFICATIONS AND DRAWINGS SHALL BE 1 NOVEMBER 2011. LATER SPECIFICATION REVISIONS MAY BE USED PROVIDED THAT THEY MEET THE INTENT AND INTERFACE REQUIREMENTS OF THE SPECIFICATION INVOKED FOR THE SPECIFIC AVAILABILITY. FOR MILITARY AND GOVERNMENT SPECIFICATIONS AND STANDARDS, THE SOURCE FOR OBTAINING COPIES AND FOR DETERMINING REVISION STATUS DATES IS THE ASSIST DATABASE POSTED AT [HTTP://ASSIST.DAPS.DLA.MIL/QUICKSEARCH/](http://assist.daps.dla.mil/quicksearch/). FOR ANY COMMERCIAL SPEC OR STANDARD THE WEB SITE OF THE ISSUING ORGANIZATION SUCH AS [WWW.ASME.ORG](http://www.asme.org) OR [WWW.ASTM.ORG](http://www.astm.org) IS THE SOURCE. SELECTED DRAWINGS ARE POSTED ON [HTTPS://WWW.SPEAR.NAVY.MIL/HABITABILITY](https://www.spear.navy.mil/habitability) OR [WWW.HABITABILITY.NET](http://www.habitability.net).

4. ENGINEERING DATA NOT REQUIRED.

5. THE PURPOSE OF THIS DRAWING IS THE HABITABILITY IMPROVEMENT OF CPO & CREW LIVING SPACES IN SUPPORT OF REFERENCE 1.

6. AN ASTERISK (*) APPEARING OPPOSITE A REFERENCE SIGNIFIES A REQUIRED REFERENCE. REQUIRED REFERENCES ARE THOSE REFERENCES NECESSARY TO SUPPORT THE DEVELOPMENT OF ESTIMATES, MATERIAL ORDERING, AND THE ACCOMPLISHMENT OF INDUSTRIAL WORK INCLUDING TESTING.

7. UNLESS OTHERWISE INDICATED ALL DIMENSIONS ARE INCHES. THE NUMBER AND LETTER IN PARENTHESIS () UNDER A VIEW DENOTES THE ORIGIN FROM WHICH IT WAS TAKEN. UNLESS OTHERWISE INDICATED THE UNIT OF ISSUE IS EACH.

8. THE PRIMARY MATERIAL IS CALLED OUT ON THE BODY OF THE DRAWING WITH THE HABITABILITY IMPROVEMENT PROGRAM FIND NUMBER. THE QUANTITY FOR EACH COMPARTMENT SHEET IS RECORDED IN SEPARATE COLUMNS OF THE "LIST OF MATERIAL". THE CUMULATIVE REQUIRED QUANTITY (REQD.QTY) MAY INCLUDE OVERAGES. MISCELLANEOUS MATERIAL TO BE USED "AS NEEDED", IS ALSO ESTIMATED IN THE "LIST OF MATERIAL". AS NEEDED QUANTITIES AND OVERAGES ARE BASED ON HISTORICAL FEEDBACK FROM INSTALLING ACTIVITIES.

9. UNLESS OTHERWISE INDICATED, INSTALLING ACTIVITY IS RESPONSIBLE FOR ALL MISCELLANEOUS MATERIAL NOT INDICATED IN THE LIST OF MATERIAL SUCH AS FASTENERS, SEALERS, AND LAGGING ETC. GFM IS AS INDICATED IN THE SOURCE (SCE) COLUMN OF THE LIST OF MATERIAL. THE POINT OF CONTACT FOR ALL GFM IS BALDEV GILL, (757) 433-3872 EXT. 1856, E-MAIL [BALDEV.GILL@NAVY.MIL](mailto:baldev.gill@navy.mil). INSTALLERS MAY REQUEST TRUE SCALE PLOTS (1/2 SIZE OR FULL SIZE) FROM HABITABILITY_SUPPORT@DELPHINUS.COM.

REV

ZONE

DESCRIPTION

BY

DATE

APPROVED

-

ALL

INITIAL ISSUE

JWG

08/06

DVD

A

SHEETS 1, 1A, 2, 3, 10, 11, AND 12 ISSUED FOR PROJECT BENL-S6222. HAB DWG. NO. 09-DDG 75-10

MT DVD

04/08

DVD

B

SHEETS 1, 1A, 1B, 2, 3, 6 AND 6A ISSUED FOR PROJECT BENL-S1066. HAB DWG. NO. 09-DDG 75-10

THC

03/10

DVD

C

SHEETS 1, 1A, 2, 3, 5 AND 5A ISSUED FOR PROJECT BENL-S3345. HAB DWG. NO. 09-DDG 75-10

DVD

11/11

THC

Revb

4

DDG 75

HABITABILITY IMPROVEMENT (DDG 75) ELECTRICAL CPO & CREW LIVING SPACES MODIFICATIONS

53711-331-8241265

3

STD

VENTILATION STANDARD MANUFACTURING DETAILS

53711-807-7277999

2

DDG 75

VENTILATION-MANUFACTURING DETAILS CPO & CREW LIVING & SANITARY SPACES

53711-512-8241270

1

DDG 75

HABITABILITY IMPROVEMENT (DDG 75) ARRANGEMENT CPO & CREW LIVING SPACES MODIFICATIONS

53711-640-8241262

NO

HULL

TITLE

IDENT

REV

ALTERATION NUMBER

WT GP

WT (LBS)

I R XI OR XR

VCG REF BL

LCG REF MP

F OR A

TCG REF CL

P S OR O

BY

WEIGHT CONTROL DATA

LEVERS IN FEET TO THE NEAREST TENTH OF A FOOT. USE SEPARATE LINES FOR EACH WT GRP S/A,REV,WT,INSTL,WT,RMV I=INSTALL R=REMOVE XI=LOAD ITEM INSTALLED XR=LOAD ITEM REMOVED F=FWD A=AFT P=PORT S=STBD O=CL

CONTRACT: N40025-06-D-6007 CAGE NO.: 08100 DELPHINUS ENGINEERING, INC. VIRGINIA BEACH, VA. 23455

PREPARED JWGW DATE 08/06

CHECKED DVD DATE 08/06

ENGINEER TAK DATE 08/06

APPROVED TAK DATE 08/06

AUTHORITY: SHIPBOARD HABITABILITY IMPROVEMENT PROGRAM

DDG 75 - DELPHINUS ENG., INC. 07/06

SHIP REV SHIPCK BY DT

SHIP APPLICABILITY

MID-ATLANTIC REGIONAL MAINTENANCE CENTER

DEPARTMENT OF THE NAVY NAVAL SEA SYSTEMS COMMAND WASHINGTON, D.C. 20362

HABITABILITY IMPROVEMENT (DDG 75) VENTILATION CPO & CREW LIVING SPACES MODIFICATIONS

ACCEPTED FOR NAVSEA

HAIB IVEINI CPIO CREWI LTITI SP IMOID

SIZE CAGE CODE WTGRP NAVSEA DWG NO. REV

F 537111512 8241263 C

SCALE: NONE

SHEET 1 OF 6

NA

NA

A

-

12

NA

NA

A

-

11

NA

NA

A

-

10

NA

NA

NA

-

9

NA

NA

NA

-

8

NA

NA

NA

-

7

NA

B

NA

-

6A

NA

B

NA

-

6

C

NA

NA

-

5A

VENTILATION-CREW LIVING COMPLEX #1 (2-78-01-L) REMOVAL

C

NA

NA

-

5

VENTILATION-CREW LIVING COMPLEX #1 (2-78-01-L) INSTALLATION

NA

NA

NA

-

4

C

B

A

-

3

VENTILATION-ASSEMBLY & INSTALLATION DETAILS

C

B

A

-

2

VENTILATION-INSTALLATION NOTES

NA

B

NA

-

1B

C

B

A

-

1A

VENTILATION-LIST OF MATERIAL

C

B

A

-

1

REVISIONS, TABLE OF CONTENTS, REFERENCES & GENERAL NOTES

REV

REV

REV

REV

SH

TITLE

C

B

A

-

DWG

REVISION STATUS AND TABLE OF CONTENTS

8

7

6

5

4

3

2

1

8

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6

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4

3

2

1

USS DONALD COOK (DDG 75)

8		7		6		5		4		3		2		1			
F		LIST OF MATERIAL (QUANTITY FOR ONE SHIP)														F	
E																E	
D																D	
C																C	
B																B	
A																A	

COMP QTY														
2-78-01-L SHEET 5	FIND NO	QTY REQD	DESCRIPTION	MTL SPEC	MTL REQD	NSN OR MFRG PART NO.	SCE	UNIT WT	REMARKS					
7	0001	7	DAMPER, VOLUME CONTROL, 6" X 6" DT	-	ALUMINUM	-	GFM	0.6	IAW 807-7277999					
4	0002	4	DAMPER, VOLUME CONTROL, 9" X 9" DT	-	ALUMINUM	-	GFM	0.9	IAW 807-7277999					
31	0004	40 FT	DUCT, SPIRAL WOUND, 4" DIA	ASTM B209	0.025 ALUM	-	GFM	0.3	IAW 807-7277999					
14	0005	20 FT	DUCT, SPIRAL WOUND, 5" DIA	ASTM B209	0.025 ALUM	-	GFM	0.4	IAW 807-7277999					
10	0006	15 FT	DUCT, SPIRAL WOUND, 6" DIA	ASTM B209	0.025 ALUM	-	GFM	0.5	IAW 807-7277999					
4	0034	4	ELBOW, 30 DEG, 4" DIA.	ASTM B209	0.050 ALUM	-	GFM	0.2	IAW 807-7277999, DETAIL 6					
5	0044	7	ELBOW, 45 DEG, 4" DIA.	ASTM B209	0.050 ALUM	-	GFM	0.3	IAW 807-7277999, DETAIL 5					
1	0045	3	ELBOW, 45 DEG, 5" DIA.	ASTM B209	0.050 ALUM	-	GFM	0.5	IAW 807-7277999, DETAIL 5					
1	0046	3	ELBOW, 45 DEG, 6" DIA	ASTM B209	0.050 ALUM	-	GFM	0.7	IAW 807-7277999, DETAIL 5					
1	0080	1	SWITCH, THERMOSTAT, (2PD)	-	VARIOUS	3B-5930-00-726-4371	GFM	1.5	DETROIT SWITCH INC., MODEL 22100 OR EQUAL					
1	0094	2	ELBOW, 90 DEG, 4" DIA	ASTM B209	0.050 ALUM	-	GFM	0.7	IAW 807-7277999, DETAIL 5					
1	0096	2	ELBOW, 90 DEG, 6" DIA	ASTM B209	0.050 ALUM	-	GFM	1.5	IAW 807-7277999, DETAIL 5					
4	0144	5	ELBOW, 45 DEG, 4" DIA. FEMALE ENDS	ASTM B209	0.050 ALUM	-	GFM	0.3	IAW 807-7277999, DETAIL 6					
381	0182	4 HD	WASHER, FLAT, 1/4"	SAE STANDARD	STL, ZINC PLD	9B-5310-00-809-4058	GFM	-	SIMILAR TO MS27183-10					
108	0183	2 HD	SCREW, CAP, HEX HEAD, GRADE 5, 3/8"-16 UNC 1-1/4" LONG	SAE STANDARD	STL, ZINC PLD	9B-5305-00-068-0511	GFM	-	SIMILAR TO MS90725-62					
108	0184	2 HD	NUT, HEX, GRADE 5, 3/8"-16 UNC-2B	SAE STANDARD	STL, ZINC PLD	9B-5310-00-732-0558	GFM	-	SIMILAR TO MS51967-8					
216	0186	3 HD	WASHER, FLAT, 3/8"	SAE STANDARD	STL, ZINC PLD	9B-5310-00-080-6004	GFM	-	SIMILAR TO MS27183-14					
1	0264	1	LATERAL, REDUCING, 5" X 4" X 4"	ASTM B209	0.050 ALUM	-	GFM	1.3	IAW 807-7277999					
1	0267	1	LATERAL, REDUCING, 6" X 4" X 4"	ASTM B209	0.050 ALUM	-	GFM	1.4	IAW 807-7277999, DETAIL 12					
1	0270	1	LATERAL, REDUCING, 6" X 5" X 4"	ASTM B209	0.050 ALUM	-	GFM	1.5	IAW 807-7277999, DETAIL 12					
6	0448	6	SQUARE TO RND, 10" X 4" TO 4" DIA, L=9" WITH FEMALE ON RND END	ASTM B209	0.050 ALUM	-	GFM	1.2	IAW 807-7277999, DETAIL 18					
4	0455	4	SQUARE TO ROUND 14" X 4" TO 5" DIA, L=12"	ASTM B209	0.050 ALUM	-	GFM	1.9	IAW 807-7277999, DETAIL 18					
1	0472	1	OFFSET, 5" DIA, Z=3"	ASTM B209	0.050 ALUM	-	GFM	1.1	IAW 807-7277999, DETAIL 17					
1	0478	1	OFFSET, 6" DIA, Z=3"	ASTM B209	0.050 ALUM	-	GFM	1.5	IAW 807-7277999, DETAIL 17					
1	0480	1	OFFSET 6" DIA, Z=4"	ASTM B209	0.050 ALUM	-	GFM	1.6	IAW 807-7277999, DETAIL 17					
7	0554	7	DAMPER, VOLUME, 4" DIA	-	0.050 ALUM	-	GFM	1.6	IAW 807-7277999, DETAIL 20					
4	0555	4	DAMPER, VOLUME, 5" DIA	-	0.050 ALUM	-	GFM	2.6	IAW 807-7277999, DETAIL 20					
6	0562	6	DIFFUSER, CEILING, 6" X 6" CORE STYLE 20	-	ALUMINUM	-	GFM	1.3	IAW 807-7277999, DETAIL 23					
1	0563	1	DIFFUSER, CEILING, 6" X 6" CORE STYLE 30	-	ALUMINUM	-	GFM	1.3	IAW 807-7277999, DETAIL 23					
4	0572	4	DIFFUSER, CEILING, 9" X 9" CORE STYLE 20	-	ALUMINUM	-	GFM	3.0	IAW 807-7277999, DETAIL 23					
2	0584	2	COUPLING, 4" DIA.	ASTM B209	0.050 ALUM	-	GFM	0.2	IAW 807-7277999, DETAIL 16					
1	0585	1	COUPLING, 5" DIA.	ASTM B209	0.050 ALUM	-	GFM	0.3	IAW 807-7277999, DETAIL 16					
1	0586	1	COUPLING, 6" DIA.	ASTM B209	0.050 ALUM	-	GFM	0.3	IAW 807-7277999, DETAIL 16					
42.4 FT	0604	22	INSULATION, DUCT, 4" ID X 1" THICK X 36" LONG	-	-	-	IAF	-	PER NAVSEA STD ITEM 009-11 & TO MATCH SHIP					
17.4 FT	0605	9	INSULATION, DUCT, 5" ID X 1" THICK X 36" LONG	-	-	-	IAF	-	PER NAVSEA STD ITEM 009-11 & TO MATCH SHIP					
17.1 FT	0606	9	INSULATION, DUCT, 6" ID X 1" THICK X 36" LONG	-	-	-	IAF	-	PER NAVSEA STD ITEM 009-11 & TO MATCH SHIP					
5	0615	5 GL	ADHESIVE, LAGGING PASTE, VAPOR SEAL	-	-	-	IAF	-	PER NAVSEA STD ITEM 009-11					
317 FT	0618P	8 RO	TAPE, SEAM SEALANT, 50 FT ROLL SELF-ADHESIVE/PRESSURE SENSITIVE	-	-	-	IAF	-	HARDCAST CO PRODUCT AP-1602 OR EQUAL (BWI (757)826-3570)					
4.8 SF	0620	1 SH	GASKET, CLOTH INSERTED RUBBER, 1/8" THICK 36" X 36" SHEET	HH-P-151	RUBBER	9B-5330-01-126-1340	IAF	-	USED FOR DUCT FLG TO DUCT FLG					
191	0621	2 HD	SCREW, MACHINE, TRUSS HEAD WITH HEX NUT 1/4"-20 UNC-2A X 3/4" L	-	STL, ZINC PLD	-	GFM	-						
2347	0622	29 HD	RIVET, 3/16" DIA. DOME HEAD 0.062 TO 0.250 GRIP RANGE	-	AL W/STL MDRL	-	GFM	-	AVEX RIVET 01661-00613 AS MADE BY ADVEL CHERRY TEXTRON OR EQUAL					
150 FT	0623	1B	FLAT BAR, 1-1/4" X 3/16" X 10' LONG	ASTM A36	STEEL	-	GFM	0.8	PRIMED					
9.17 FT	0624	1 RO	INSULATION, 1" THICK X 36" WIDE, 100 FT ROLL	-	-	-	IAF	-	PER NAVSEA STD ITEM 009-11 & TO MATCH SHIP					
1.11	0625	2 GL	ADHESIVE FOR INSULATION TO METAL	-	-	-	IAF	-	PER NAVSEA STD ITEM 009-11 & TO MATCH SHIP					
34 BD	0626	3 BX	INSULATION BOARD, 1" THK X 24" X 36"	-	-	-	IAF	-	20 BOARDS PER BOX, PER NAVSEA STD ITEM 009-11 & TO MATCH SHIP					
96 FT	0627	1 RO	LAGGING, CLOTH, TYPE 1, CLASS 3, 20" WIDE, 50 YARD ROLL	MIL-C-20079 TY I CL 3	-	-	IAF	-						
1.5	0629	2 SH	GASKET, 1/8" THICK, 36" X 36" SHEET, GRADE 40, CLASS 2A OR 2B	A-A-55759	SILICONE RBR	9B-9320-01-153-8863	IAF	-	USED FOR HEATER FLG TO DUCT FLG.					
5	0641	10 FT	DUCT, RECTANGULAR, 9" X 6"	ASTM B209	0.040 ALUM	-	GFM	1.4	IAW 807-7277999					
4	0645	5 FT	DUCT, RECTANGULAR 10" X 7"	ASTM B209	0.040 ALUM	-	GFM	1.6	IAW 807-7277999					
4	0646	5 FT	DUCT, RECTANGULAR 10" X 8"	ASTM B209	0.040 ALUM	-	GFM	1.7	IAW 807-7277999					
4	0660	5 FT	DUCT, RECTANGULAR 15" X 8"	ASTM B209	0.050 ALUM	-	GFM	2.7	IAW 807-7277999					
19	0677	21	HANGER EAR, 1-1/4" X 3/16", 4" THROUGH 6" ROUND DUCT	ASTM B209	ALUMINUM	-	GFM	0.1	IAW 807-7277999, DETAIL 30					
249	0681	5 HD	RIVET, 3/16" DIA., DOME HEAD 0.187-0.437 GRIP RANGE	-	AL W/STL MDRL	9B-5320-00-005-1051	GFM	-	AVEX RIVET 01661-00619 BY ADVEL CHERRY TEXTRON OR EQUAL					
33.17	0682	45 FT	FLAT BAR, 1-1/2" X 3/16"	ASTM B221	AL 5456-H111	9B-9530-00-542-2591	GFM	0.096						
1	0684	1	TAP, 45 DEG, 4" DIA. MALE END	ASTM B209	ALUMINUM	-	GFM	0.4	IAW 807-7277999, DETAIL 7					
1	0695	1	TAP, 45 DEG 5" DIA, FEMALE END	ASTM B209	ALUMINUM	-	GFM	0.5	IAW 807-7277999, DETAIL 7					
305 FT	0696	1 SL	THREAD, SEWING, TYPE III, CLASS 4	MIL-C-20079 TY III CL4	-	-	IAF	-	575 YARDS PER SPOOL					
3.63	0698	5 GL	VAPOR BARRIER	MIL-PRF-19565C(1)	WATER BASE	-	IAF	-	PER NAVSEA STD ITEM 009-11					
7	1000	7	DIFFUSER, BOX, 10" X 4" WITH SPOUT, FOR 6" X 6" D.T.	ASTM B209	0.050 ALUM	-	GFM	1.6	IAW 807-7277999, DETAIL 25					
4	1001	4	DIFFUSER, BOX, 14" X 4" WITH SPOUT, FOR 9" X 9" D.T.	ASTM B209	0.050 ALUM	-	GFM	2.7	IAW 807-7277999, DETAIL 26					
1	2001	1	VENT, CUSTOM DETAIL	-	-	-	GFM	REF	IAW 512-8241270					
1	2002	1	VENT, CUSTOM DETAIL	-	-	-	GFM	REF	IAW 512-8241270					
1	2003	1	VENT, CUSTOM DETAIL	-	-	-	GFM	REF	IAW 512-8241270					
1	2004	1	VENT, CUSTOM DETAIL	-	-	-	GFM	REF	IAW 512-8241270					
1	2005	1	VENT, CUSTOM DETAIL	-	-	-	GFM	REF	IAW 512-8241270					
1	2006	1	VENT, CUSTOM DETAIL	-	-	-	GFM	REF	IAW 512-8241270					
1	2007	1	VENT, CUSTOM DETAIL	-	-	-	GFM	REF	IAW 512-8241270					
1	2008	1	VENT, CUSTOM DETAIL	-	-	-	GFM	REF	IAW 512-8241270					
1	2009	1	VENT, CUSTOM DETAIL	-	-	-	GFM	REF	IAW 512-8241270					
1	2010	1	VENT, CUSTOM DETAIL	-	-	-	GFM	REF	IAW 512-8241270					
1	2011	1	VENT, CUSTOM DETAIL	-	-	-	GFM	REF	IAW 512-8241270					
1	2012	1	VENT, CUSTOM DETAIL	-	-	-	GFM	REF	IAW 512-8241270					
1	2013	1	VENT, CUSTOM DETAIL	-	-	-	GFM	REF	IAW 512-8241270					
1	2014	1	VENT, CUSTOM DETAIL	-	-	-	GFM	REF	IAW 512-8241270					
1	2015	1	VENT, CUSTOM DETAIL	-	-	-	GFM	REF	IAW 512-8241270					
1	2016	1	VENT, CUSTOM DETAIL	-	-	-	GFM	REF	IAW 512-8241270					
1	2017	1	VENT, CUSTOM DETAIL	-	-	-	GFM	REF	IAW 512-8241270					
1	2018	1	VENT, CUSTOM DETAIL	-	-	-	GFM	REF	IAW 512-8241270					
1	2019	1	VENT, CUSTOM DETAIL	-	-	-	GFM	REF	IAW 512-8241270					
1	2020	1	VENT, CUSTOM DETAIL	-	-	-	GFM	REF	IAW 512-8241270					
1	2021	1	VENT, CUSTOM DETAIL	-	-	-	GFM	REF	IAW 512-8241270					
1	2022	1	VENT, CUSTOM DETAIL	-	-	-	GFM	REF	IAW 512-8241270					
402 FT	A441	3 RO	TAPE, 2" WIDE, TYPE II, CLASS I	MIL-C-20079 TY II CL 1	-	9B-8315-00-267-1632	IAF	-	50 YD/RO					

HABITABILITY NUMBER: 09-DDG 75-10

SIZE	CAGE CODE	WT GRP	NAVSEA DRAWING NO.	REV
F	53711	512	8241263	C
SCALE: NONE		SHEET 1A		



VENTILATION INSTALLATION NOTES

1. THE VENTILATION SYSTEMS DEPICTED HEREIN ARE DEVELOPED TO SUIT REFERENCE 1. DEVIATIONS FROM THIS DRAWING SHALL BE APPROVED BY THE SUPERVISOR.
2. THIS DRAWING IS BASED UPON THE REQUIREMENTS OF THE GSO, WHOSE PROVISIONS SHALL PREVAIL IN AREAS WHERE THIS DRAWING IS SILENT. WHERE A CONFLICT EXISTS BETWEEN THIS DRAWING AND THE GSO, THIS DRAWING SHALL TAKE PRECEDENCE.
3. ALL DUCTWORK, FITTINGS AND FLANGE MATERIAL SHALL BE IN ACCORDANCE WITH MANUFACTURING DRAWINGS INVOKED IN THE LIST OF MATERIAL.
4. NA
5. DIMENSIONS GIVEN FOR DUCTS AND FITTINGS ARE INSIDE DIMENSIONS UNLESS OTHERWISE NOTED. WHEN ONE DIMENSION IS GIVEN, IT IS UNDERSTOOD THAT THE DUCT IS CIRCULAR IN SECTION. WHEN TWO DIMENSIONS ARE GIVEN, IT IS UNDERSTOOD THAT THE DUCT IS RECTANGULAR IN SECTION. FLAT OVAL DUCTS ARE DESIGNATED BY THE LETTERS FO. THE FIRST DIMENSION GIVEN IS THE VISIBLE SIDE OF THE DUCT.
6. ALL SPIRAL WOUND DUCT HAS FEMALE ENDS. ALL FITTINGS AND COUPLINGS HAVE MALE ENDS UNLESS OTHERWISE NOTED.
7. THE LETTERS "A" AND "X" DENOTE THE DUCT LOCATION FROM THE UNDERSIDE OF THE DECK OVER. "A" DENOTES THE DISTANCE FROM THE UNDERSIDE OF THE DECK OVER TO THE TOP (INSIDE) OF RECTANGULAR DUCTS. "X" DENOTES THE DISTANCE FROM THE UNDERSIDE OF THE DECK OVER TO THE CENTERLINE OF CIRCULAR AND FLAT OVAL DUCTS. "Y" DIMENSION IS THE DISTANCE FROM THE TOP OF THE DECK UNDER TO THE CENTERLINE OF ROUND AND FLAT OVAL DUCTS AND THE BOTTOM (INSIDE) FOR RECTANGULAR DUCTS.
8. TRANSFORMATIONS ARE TO BE CONSIDERED SYMMETRICAL UNLESS OTHERWISE NOTED.
9. FITTINGS MARKED WITH AN ASTERISK (*) INDICATE A CHANGE IN LEVEL.
10. "Z" DIMENSION INDICATES AMOUNT OF OFFSET OF THE FITTING. SEE REFERENCE 2 & 3.
11. **FN** ALL NUMBERS IN CIRCLE REFER TO DRAWING HABITABILITY IMPROVEMENT PROGRAM FIND NUMBERS.
12. ALL ABBREVIATIONS ARE IN ACCORDANCE WITH ASME Y14.38 OR [HTTPS://WWW.SPEAR.NAVY.MIL/HABITABILITY](https://www.spear.navy.mil/habitability) OR [WWW.HABITABILITY.NET](http://www.habitability.net).
13. ALL NON-WORKING STEEL PARTS, SUCH AS NUTS, BOLTS, ETC, SHALL BE GALVANIZED OR ZINC PLATED TO COMMERCIAL STANDARDS.
14. CLEAN ALL EXISTING FILTERS, DUCTWORK, EQUIPMENT, ETC., PRIOR TO INSTALLATION OF NEW VENTILATION AND A/C SYSTEMS.
15. ALL DIMENSIONS ARE INCHES UNLESS OTHERWISE INDICATED. DIMENSIONS OVER 72" ARE INDICATED SUCH AS 6'-1".
16. ALL EXISTING BELL MOUTH SCREENS SHALL BE REMOVED, CLEANED AND REINSTALLED. THE INSIDE OF ALL DUCTWORK SERVING THE COMPARTMENTS DEPICTED SHALL BE CLEANED.
17. RETENTION AND REMOVAL OF EXISTING DUCTWORK SHALL BE ACCOMPLISHED AS FOLLOWS:

EXISTING DUCTWORK ON THIS SIDE
OF ARROW TO BE RETAINED.

EXST

+

NEW

EXISTING DUCTWORK ON THIS SIDE
OF ARROW TO BE REMOVED.
18. RIVETED JOINTS FOR SPIRAL DUCT CONNECTION AND ROUND FITTINGS SHALL HAVE 2" LAP WITH 3/16" RIVETS EQUALLY SPACED AS FOLLOWS: 3 RIVETS FOR 3" THRU 5" DIA, 4 RIVETS FOR 6" THRU 8" DIA AND 5 RIVETS FOR 9" THRU 12" DIA. RIVETED JOINTS FOR RECTANGULAR DUCT CONNECTION AND RECTANGULAR FITTINGS SHALL HAVE 1" LAP WITH 3/16" RIVETS SPACED ON NOT MORE THAN 2" CENTERS.
19. ALL RIVETED JOINTS SHALL BE MADE AIRTIGHT BY APPLYING HARDCAST TAPE NO. AP-1602 OR EQUAL, IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. TAPE HAS A WHITE FABRIC BACKING RECOMMENDED FOR BEING PAINTED. AVAILABLE FROM BWI DISTRIBUTION (757)826-3570.

REMOVAL NOTES

R-1 ALL MATERIAL MARKED ////////// ON THE REMOVAL VIEW SHALL BE REMOVED AND TURNED OVER TO THE NEAREST PROPERTY ADMINISTRATOR, OR OTHERWISE DISPOSED OF AS INDICATED IN CONTRACT TERMS.

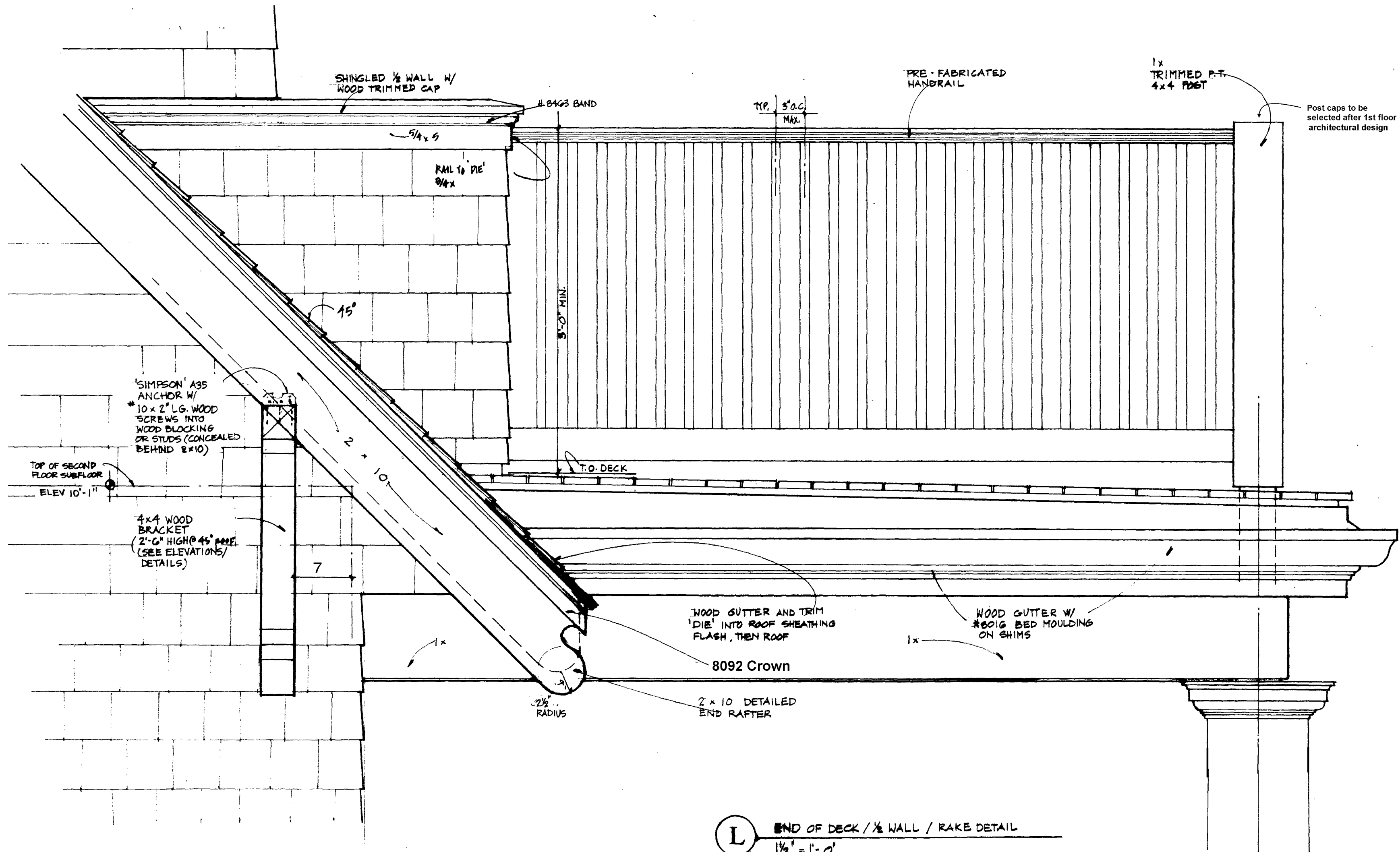
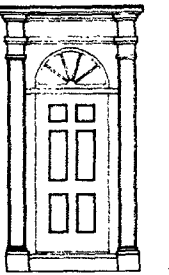
TEST NOTES

T-1 TESTING AND BALANCING ARE NOT REQUIRED.

HABITABILITY NUMBER: 09-DDG 75-10

SIZE	CAGE CODE	WT GRP	NAVSEA DRAWING NO.	REV
F	53711	512	8241263	C
SCALE: NONE		SHEET 2		

USS DONALD COOK (DDG 75)

[illegible]

job no. :

drawn :

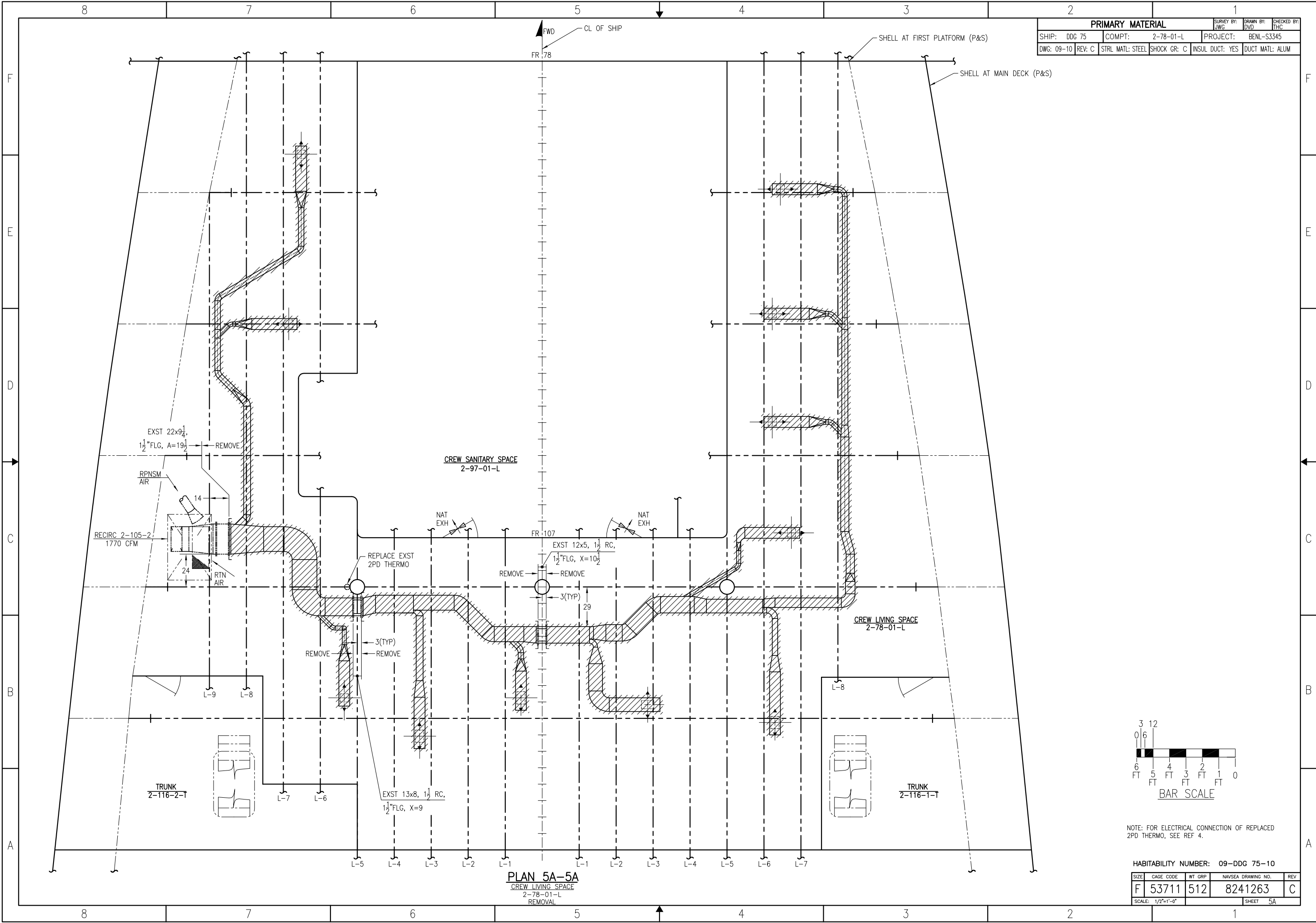
checked :

scale : AS NOTED

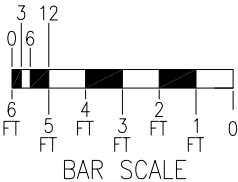
date : 7.5.10

WALL SECTION AND EXTERIOR DETAILS

11/23/2011 6:43:32 AM, Habitability Improvement Program, (757)460-4449



PRIMARY MATERIAL					
SHIP: DDG 75		COMPT: 2-78-01-L		PROJECT: BENL-S3345	
DWG: 09-10	REV: C	STRL MATL: STEEL	SHOCK GR: C	INSUL DUCT: YES	DUCT MATL: ALUM



NOTE: FOR ELECTRICAL CONNECTION OF REPLACED 2PD THERMO, SEE REF 4.

HABITABILITY NUMBER: 09-DDG 75-10

SIZE	CAGE CODE	WT GRP	NAVSEA DRAWING NO.	REV
F	53711	512	8241263	C
SCALE: 1/2"=1'-0"		SHEET 5A		

USS DONALD COOK (DDG 75)