Response Marine, Inc.

Drawing List

Delivered	Design	Dwg	Description	Date
	24' Cathedral			
	576	-1	Outboard Views	
		-2	Inboard Profile & End Views	
		-2-1	Keel Layout	7/20/18
		-2-2	Girder Layout	7/20/18
		-2-3	Bottom Layout	7/20/18
		-2-4	Bow Parts	7/20/18
		-2-5	Topside Stringer	7/20/18
		-2-6	Topside Plate Layout	7/20/18
		-2-7A	Hull Joint Details- Bottom	7/20/18
		-2-7B	Hull Joint Details- Bow	7/20/18
		-2-8	Cockpit Deck	7/20/18
		-2-9	Side Decks	7/20/18
		-2-10	Sheer Widths	7/20/18
		-2-11	Transom	7/20/18
		-2-12	False Transom & Engine Deck	7/20/18
		-2-13	Transom Locker	7/20/18
		-3-1	Fuel Tank	7/20/18
		-5-1	Lifting Eyes	7/20/18
		-B-1	Bending Flange- B-1	7/20/18
		-F-R	Frame Dimensions	7/20/18
		-F1	Frame 1	7/20/18
		-F2	Frame 2	7/20/18
		-F3	Frame 3, WTBHD	7/20/18
		-F4	Frame 4	7/20/18
		-F5	Frame 5	7/20/18
		-F6	Frame 6	7/20/18
		-F7	Frame 7	7/20/18

Also Included:

- Extrusion List (pdf)
- Parts List (pdf & xls)
- Weight Estimate w/ Hydrostatics Table (xls)
- 3D dxf (by dropbox link)

Response Marine, Inc.

NC Cut Parts
Design #576, 24' Cathedral
File: RMIDes\[redacted]\576 24' Cathedral

Revised: 7/20/18
Print Date: 7/20/18

3/16" Parts 5052

Part #	Pieces	Description	Bend
DB-AP	1	Deck Body, OB F1 to F3, Port	
DB-AS	1	Deck Body, OB F1 to F3, Stbd	
DB-BP	1	Deck Body, F3 to FTran, Port	
DB-BS	1	Deck Body, F3 to FTran, Stbd	
DM-P	1	Deck Margin, F3-FTran, Port	
DM-S	1	Deck Margin, F3-FTran, Stbd	
FT-1	1	Fuel Tank Body	Y, 3/8" R on Marks
FT-2	1	Fuel Tank Transverse Baffle (WT)	
FT-3	1	Fuel Tank Long'lBaffle	
FT-4	2	Fuel Tank Ends	
FT-5	1	Fuel Tank Top	
SD-P	1	Side Decks, Port	Y, 3/8" R on Marks
SD-S	1	Side Decks, Stbd	Y, 3/8" R on Marks
TR-DT	1	Transom Deck Tray	Y, 3/8" R on Marks
TR-DT2	2	Transom Deck Tray Fwd Corner	
TR-WL-P	1	Transom Topsides Wing Liner, Port	Y, 3/8" R on Marks
TR-WL-S	1	Transom Topsides Wing Liner, Stbd	Y, 3/8" R on Marks
	19	Total Pieces (3/16", 5052)	

3/16" Parts 5086 Marine

Part #	Pieces	Description	Bend
ALB	1	Anchor Locker Bottom	
BL3-GP	1	Bottom Girder (Tran to fwd of F2), Port	Y, Flange B1
BL3-GS	1	Bottom Girder (Tran to fwd of F2), Stbd	Y, Flange B1
BOW-A	1	Bow Flat, (Chine/Bottom to Bow Slant)	
BOW-B	1	Bow Slant, (Bow Flat to Bow Face)	
BOW-C	1	Bow Face, (above Bow Slant)	
BS-1P	1	Bow Stiffener #1, Port	Y, Flange B1
BS-1S	1	Bow Stiffener #1, Stbd	Y, Flange B1
BS-2P	1	Bow Stiffener #2, Port	Y, Flange B1
BS-2S	1	Bow Stiffener #2, Stbd	Y, Flange B1
BS-3P	1	Bow Stiffener #3, Port	Y, Flange B1
BS-3S	1	Bow Stiffener #3, Stbd	Y, Flange B1
F1	1	Frame 1, BHD	
F2	1	Frame 2	Y, Flange B1
F2-P	1	Frame 2, Upper, Port	Y, Flange B1
F2-S	1	Frame 2, Upper, Stbd	Y, Flange B1
F3	1	Frame 3, WTBHD	Y, Flange B1

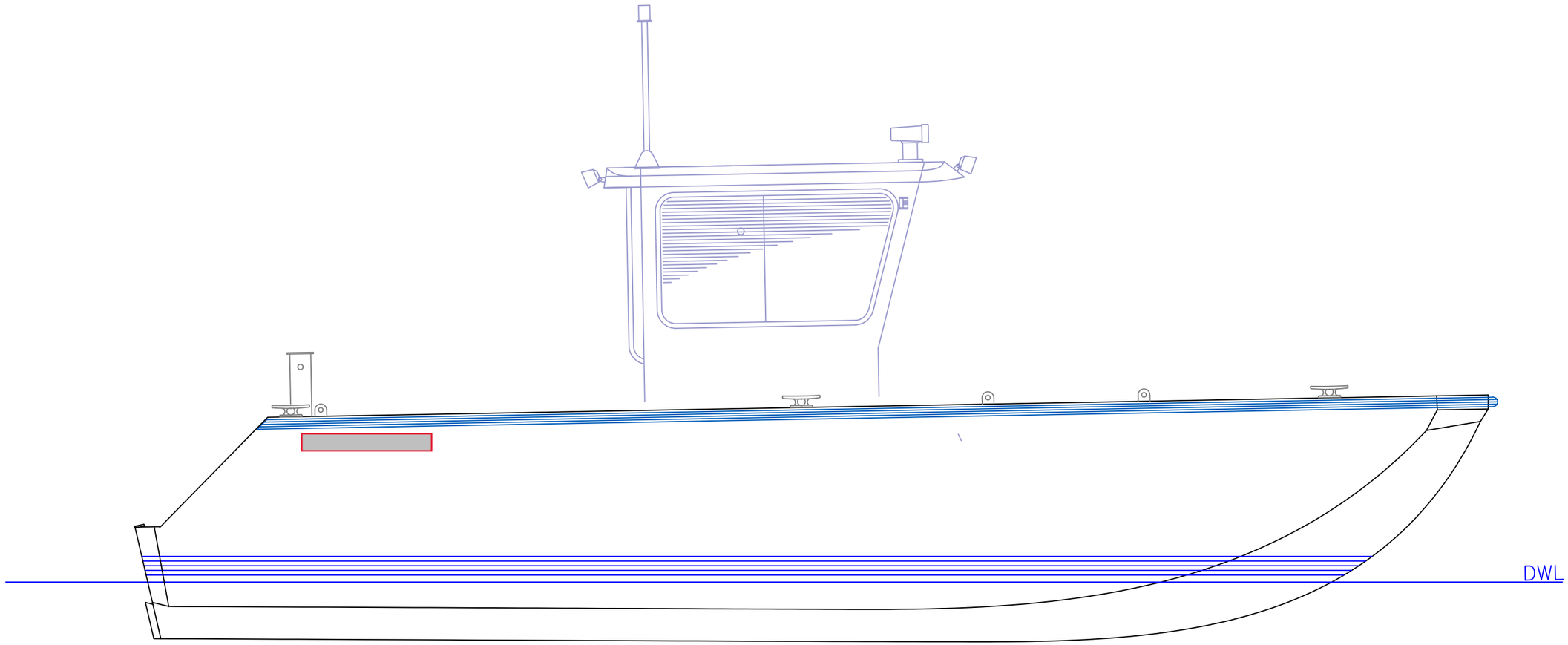
F3-P	1	Frame 3, Upper, Port	Y, Flange B1
F3-S	1	Frame 3, Upper, Stbd	Y, Flange B1
F4	1	Frame 4	Y, Flange B1
F4-P	1	Frame 4, Upper Port	Y, Flange B1
F4-S	1	Frame 4, Upper Stbd	Y, Flange B1
F5	1	Frame 5	Y, Flange B1
F5-P	1	Frame 5, Upper Port	Y, Flange B1
F5-S	1	Frame 5, Upper Stbd	Y, Flange B1
F6	1	Frame 6	Y, Flange B1
F6-P	1	Frame 6, Upper, Port	Y, Flange B1
F6-S	1	Frame 6, Upper, Stbd	Y, Flange B1
F7	1	Frame 7	Y, Flange B1
FD	1	Foredeck	
FTRAN	1	False Transom	Y, 1/2" R on Marks
SDC-P	1	Side Deck Coaming, Port (just aft F1)	
SDC-S	1	Side Deck Coaming, Stbd (just aft F1)	
TB	1	Transom Bulkhead	
TD	1	Transom Deck (Upper @ Stowage Compartment)	
TK-P	1	Transom Knee at ~15" off CL, Port	Y, Flange B1
TK-S	1	Transom Knee at ~15" off CL, Stbd	Y, Flange B1
TR-D	1	Transom Engine Deck	
TR-WC-P	1	Transom Topsides Wing Cap, Port	
TR-WC-S	1	Transom Topsides Wing Cap, Stbd	
TSL-1A-P	1	Topsides Stringer #1, Chine to F1, Port	
TSL-1A-S	1	Topsides Stringer #1, Chine to F1, Stbd	
TSL-1B-P	1	Topsides Stringer #1 (Shelf F1-Tran Bhd), Port	Y, Flange B1
TSL-1B-S	1	Topsides Stringer #1 (Shelf F1-Tran Bhd), Stbd	Y, Flange B1
TSL-1C-P	1	Topsides Stringer #1, Tran Bhd to FTran, Port	
TSL-1C-S	1	Topsides Stringer #1, Tran Bhd to FTran, Stbd	
TS-P	1	Topsides	
TS-S	1	Topsides	
	48	Total Pieces (3/16", 5086)	

1/4" Parts, 5086 Marine

Part #	Pieces	Description
BL-1P	1	Bottom Longitudinal #1, Port
BL-1S	1	Bottom Longitudinal #1, Stbd
BL-2P	1	Bottom Longitudinal #2, Port
BL-2S	1	Bottom Longitudinal #2, Stbd
BOT-P	1	Bottom Plate, Port
BOT-S	1	Bottom Plate, Stbd
C-P	1	Chine, Port
C-S	1	Chine, Stbd
TR-LL	1	Engine Bracket Transom Lip Liner
TR-S-1	1	Transom, Horizontal Stiffener, Btwn Girders
	10	Total Pieces (1/4")

3/8" Parts, 5086 Marine

Part #	Pieces	Description	
KA	1	Keel, Fwd	
KB	1	Keel, Deck Return	
KC	1	Keel, Mid	
KD	1	Keel, Aft	
TR	1	Transom	Y, 3/4" R on Marks
TR-L	1	Transom Lip	
	6	Total Pieces (3/8")	
	83	Total Cut Parts	



OB Profile on DWL

RC–24x8.5' Cathedral

SCALE	DES/DWN	DATE
1/2" = 1'	WAL	5/23/18

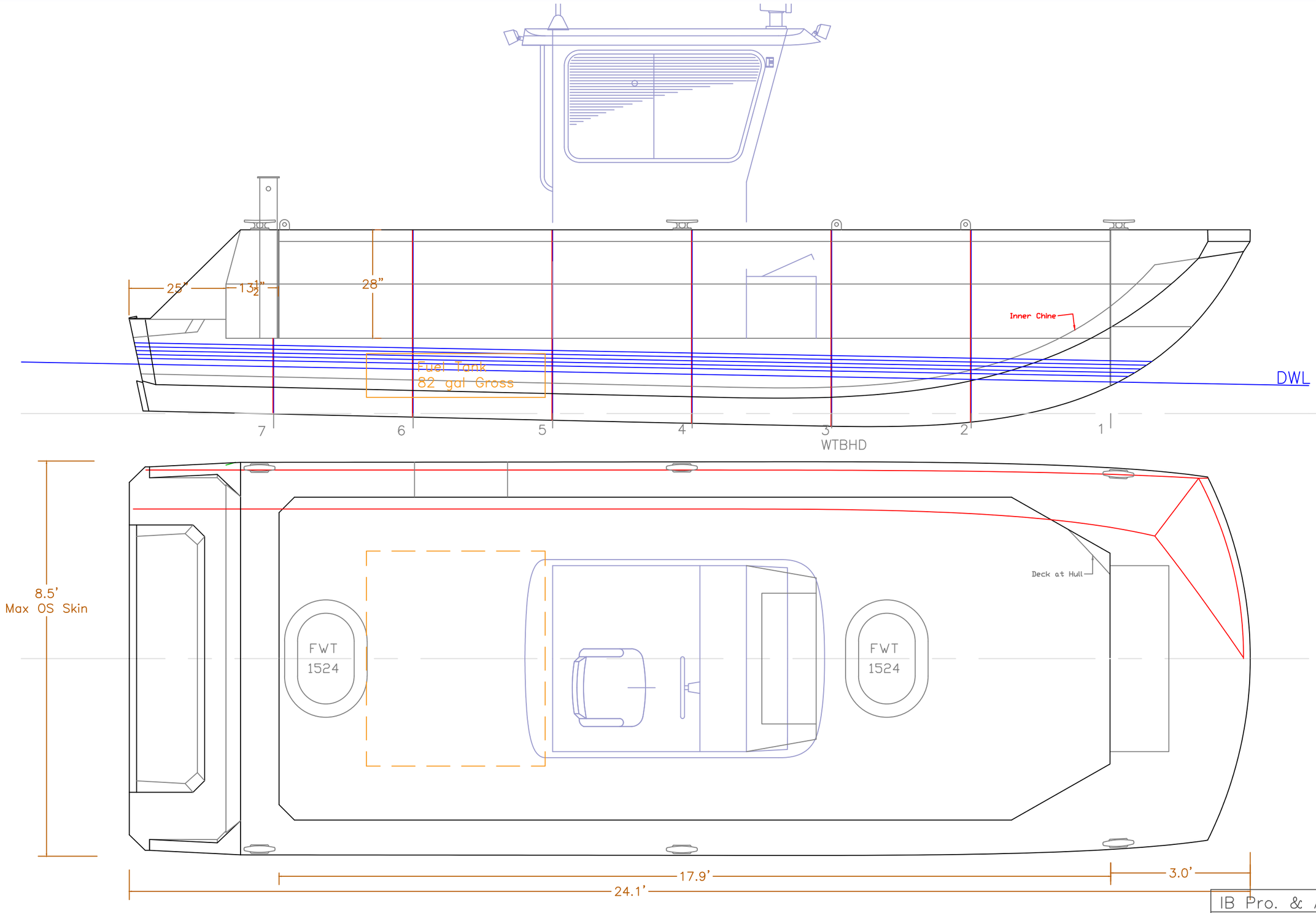
Response Marine, Inc.

Newburyport, MA, www.responsemarine.com

REV 7/20/18

DWG NO. 576–1, R1

REV.	DESCRIPTION
R1, 7/20/18.	Minor Transom Changes



REV.	DESCRIPTION
R1, 7/20/18.	Minor Transom Changes

IB Pro. & Arrang.

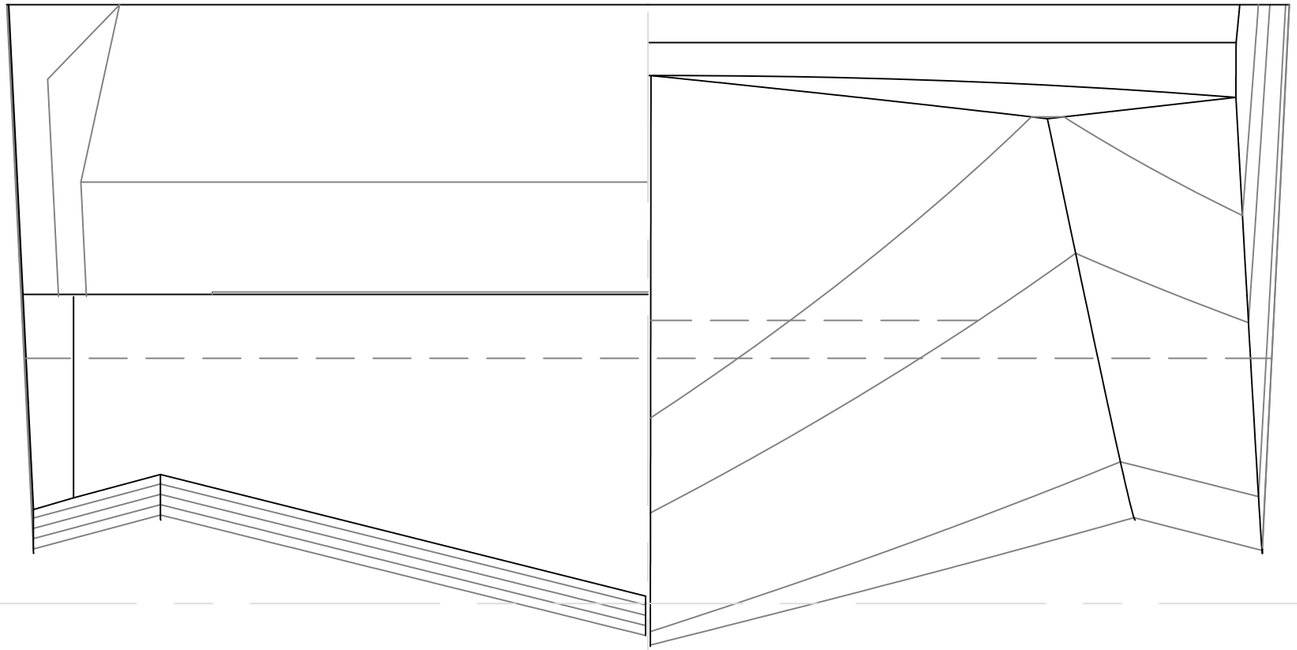
RC–24x8.5’ Cathedral

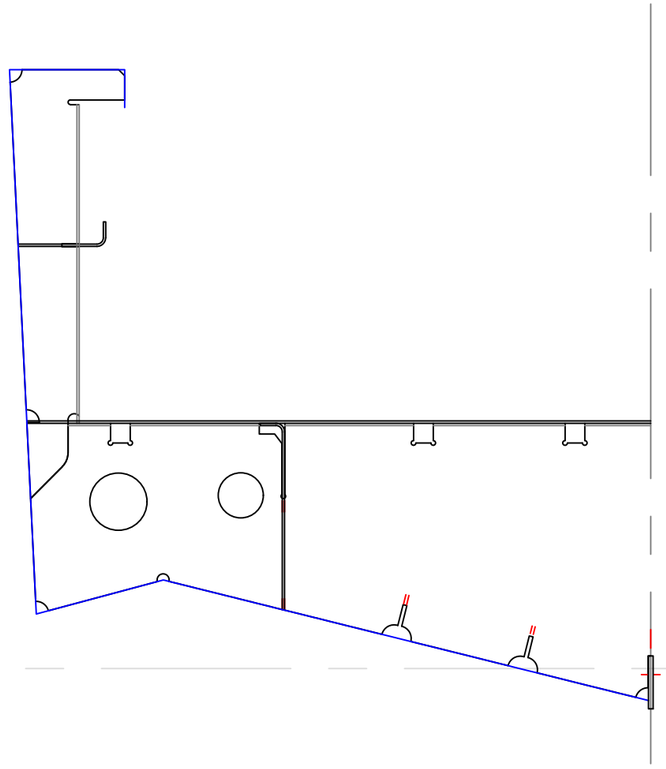
SCALE	DES/DWN	DATE
1/2” = 1’	WAL	5/23/18

Response Marine, Inc.
Newburyport, MA, www.responsemarine.com

REV 7/20/18

DWG NO. 576–2, R1





REV.	DESCRIPTION
R1, 7/20/18.	Minor Transom Changes

Body Plan & Typ. Frame

RC–24x8.5' Cathedral

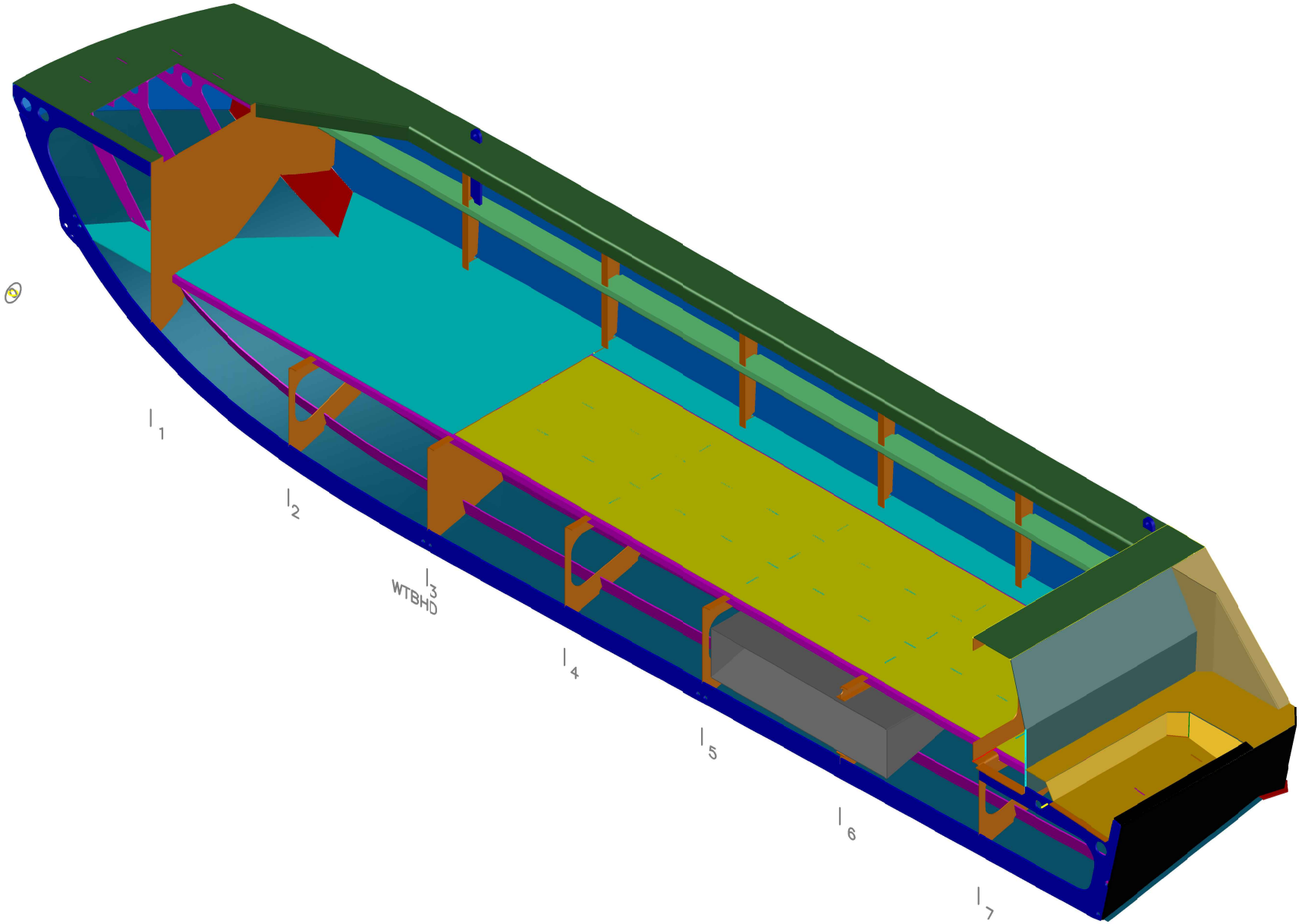
SCALE	DES/DWN	DATE
1" = 1'	WAL	5/23/18

Response Marine, Inc.

Newburyport, MA, www.responsemarine.com

REV 7/20/18

DWG NO. 576–3, R1



REV.	DESCRIPTION

3D Shaded #1

RC–24x8.5' Cathedral

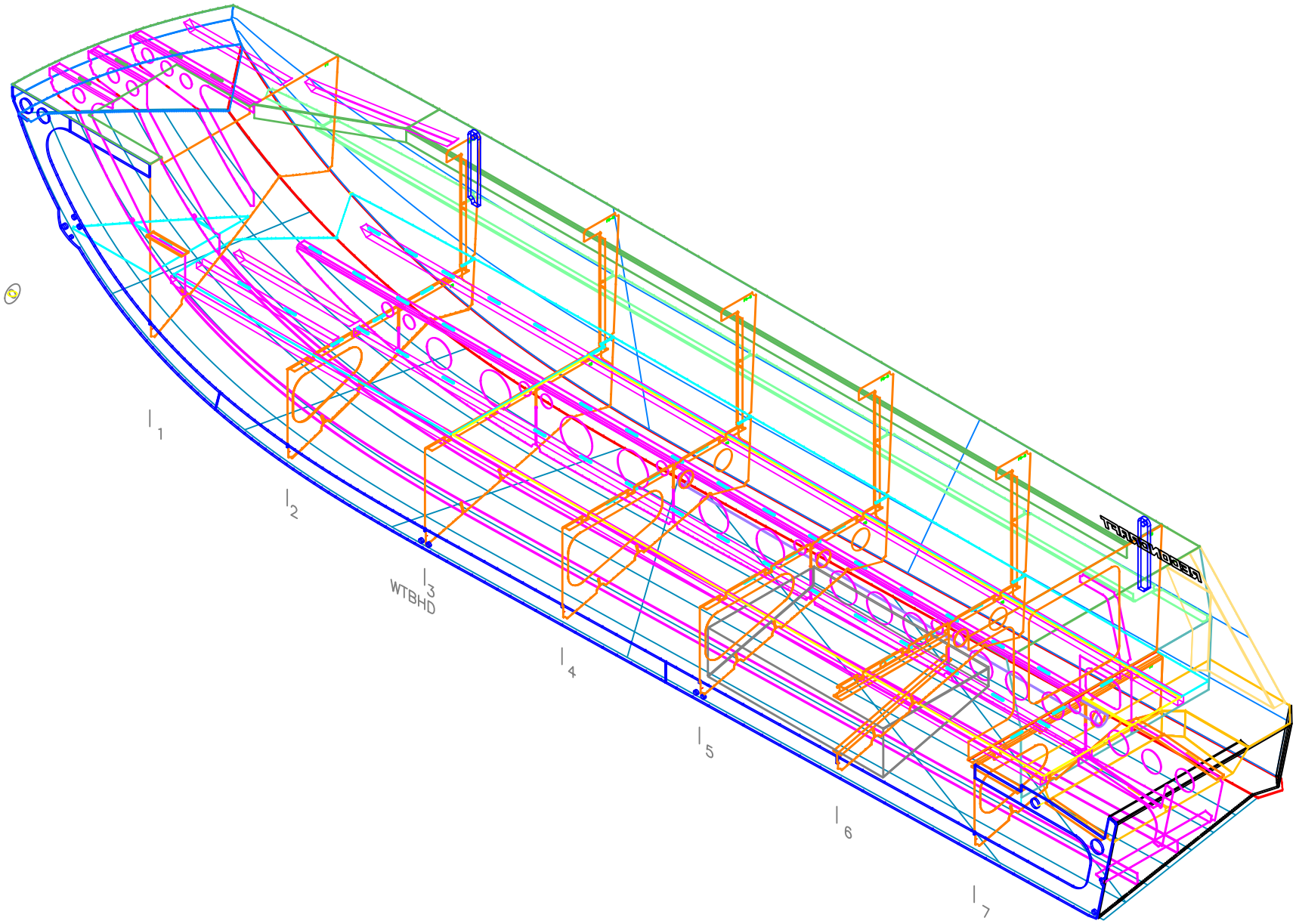
SCALE	DES/DWN	DATE
NONE	WAL	7/20/18

Response Marine, Inc.

Newburyport, MA, www.responsemarine.com

REV

DWG NO. 576–3d–1s



REV.	DESCRIPTION

3D Skeleton #1

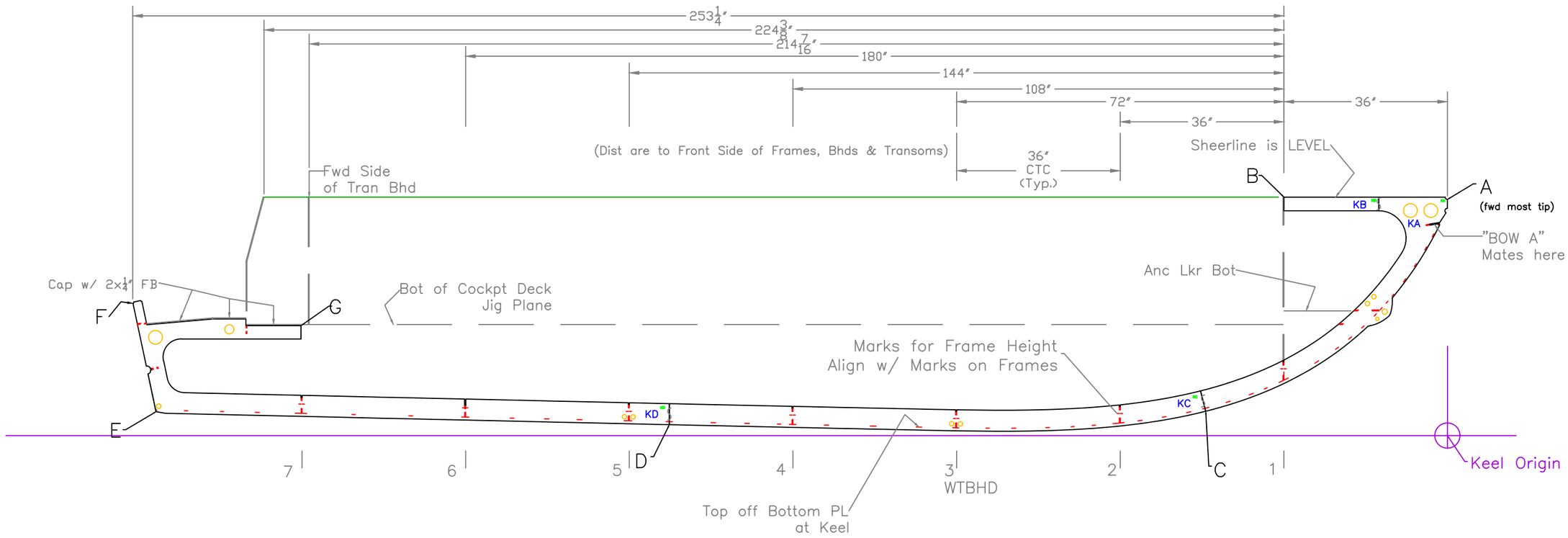
RC–24x8.5' Cathedral

SCALE	DES/DWN	DATE
NONE	WAL	7/20/18

REV

Response Marine, Inc.
Newburyport, MA. www.responsemarine.com

DWG NO. 576–3d–1



KEEL POINTS
#576, 24' Cathedral
Response Marine, Inc. 7/19/18

	Inches- sixteenths		ALIGNED (Inches-sixteenths)					
	Horizontal	Vertical	A	B	C	D	E	F
A to Origin	0	51 15/16						
B to Origin								
C to Origin								
D to Origin								
E to Origin								
F to Origin								
G to Origin								

Drawings & NC Parts Files are provided to ReconCraft for construction of the initial boat only.
Use of drawings & files for purposes other than constructing this boat is prohibited
without the pre-payment of additional fees to Response Marine, Inc.

REV.	DESCRIPTION

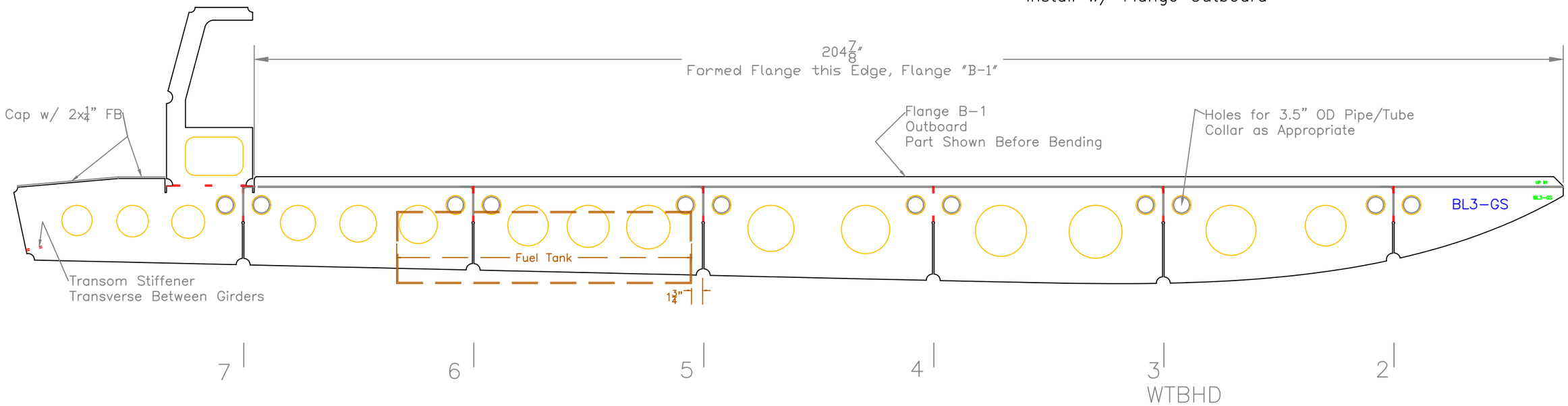
KEEL LAYOUT
24'x8.5' Cathedral

SCALE	DES/DWN	DATE
1/2" = 1'	WAL	7/20/18

Response Marine, Inc.
Newburyport, MA, www.responsemarine.com

SHEET
DWG NO. 576-2-1

Starboard Girder Shown
Install w/ Flange Outboard



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REV.	DESCRIPTION

GIRDER LAYOUT

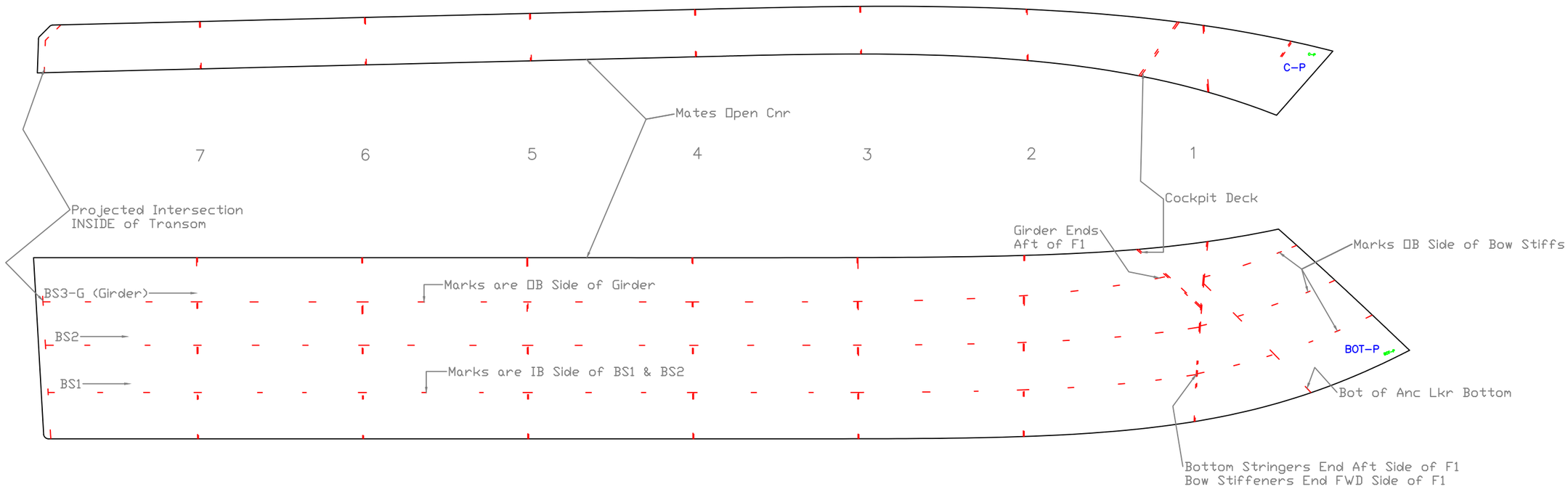
24'x8.5' Cathedral

SCALE	DES/DWN	DATE
3/4" = 1'	WAL	7/20/18

Response Marine, Inc.
Newburyport, MA, www.responsemarine.com

SHEET

DWG NO. 576-2-2



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REV.	DESCRIPTION

BOTTOM LAYOUT

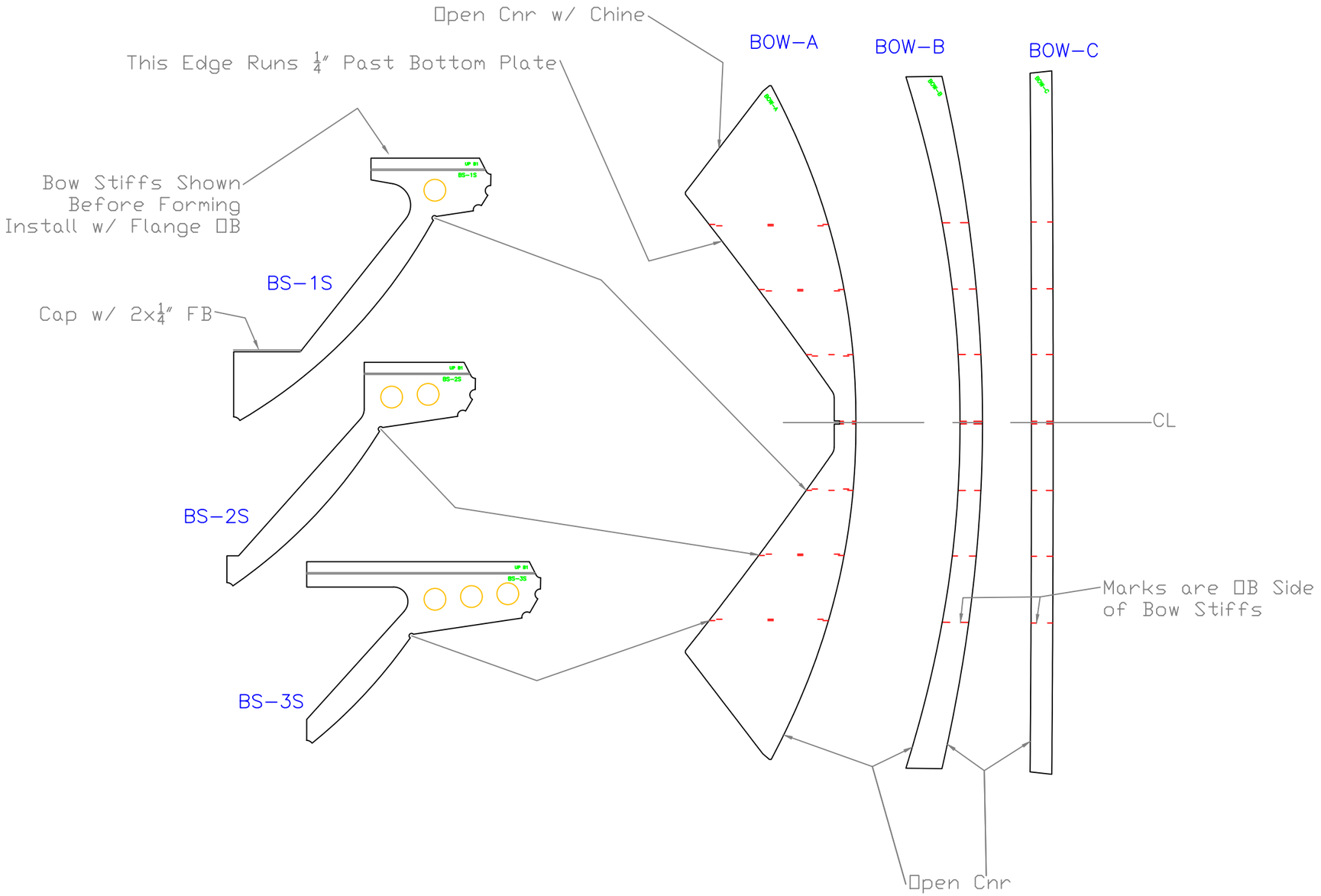
24'x8.5' Cathedral

SCALE	DES/DWN	DATE
1/2" = 1'	WAL	7/20/18

Response Marine, Inc.
Newburyport, MA, www.responsemarine.com

SHEET

DWG NO. 576-2-3



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REV.	DESCRIPTION

BOW PARTS

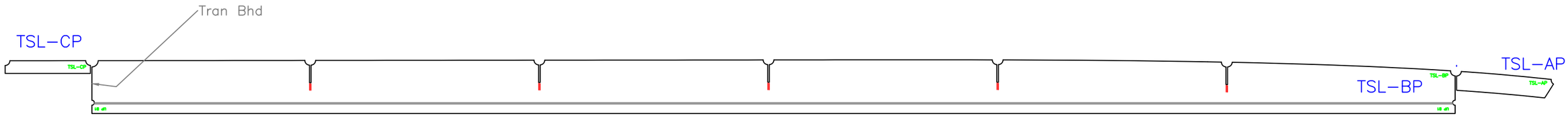
24'x8.5' Cathedral

SCALE	DES/DWN	DATE
3/4" = 1'	WAL	7/20/18

Response Marine, Inc.
Newburyport, MA, www.responsemarine.com

SHEET

DWG NO. 576-2-4



TSL-B is Shelf Stringer
Install from INSIDE w/ Flanges UP,
Parts shown before Forming

7 6 5 4 3 2 1

3
WTBHD

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REV.	DESCRIPTION

TOPSIDE STRINGERS

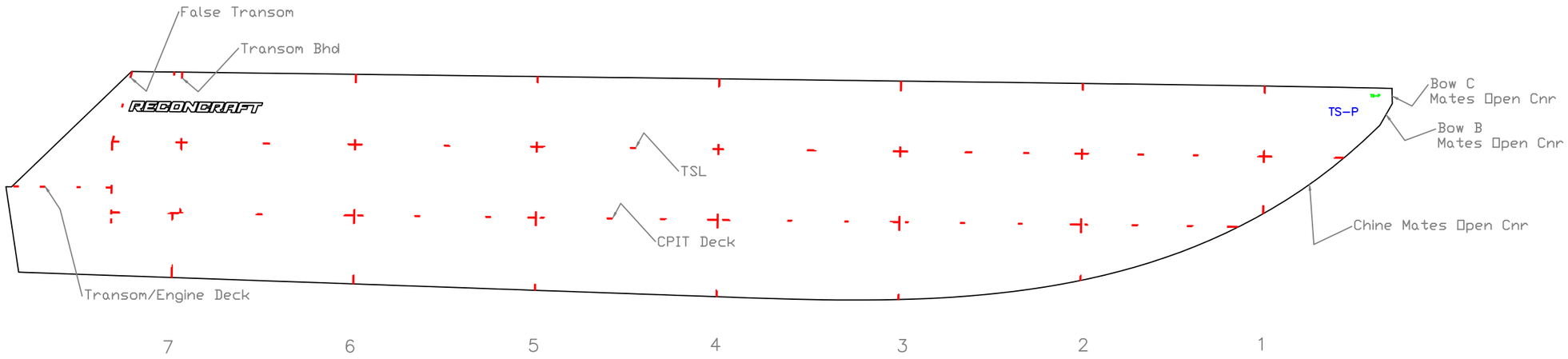
24'x8.5' Cathedral

SCALE	DES/DWN	DATE
3/4" = 1'	WAL	7/20/18

Response Marine, Inc.
Newburyport, MA, www.responsemarine.com

SHEET

DWG NO. 576-2-5



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REV.	DESCRIPTION

TOPSIDE PLATE LAYOUT

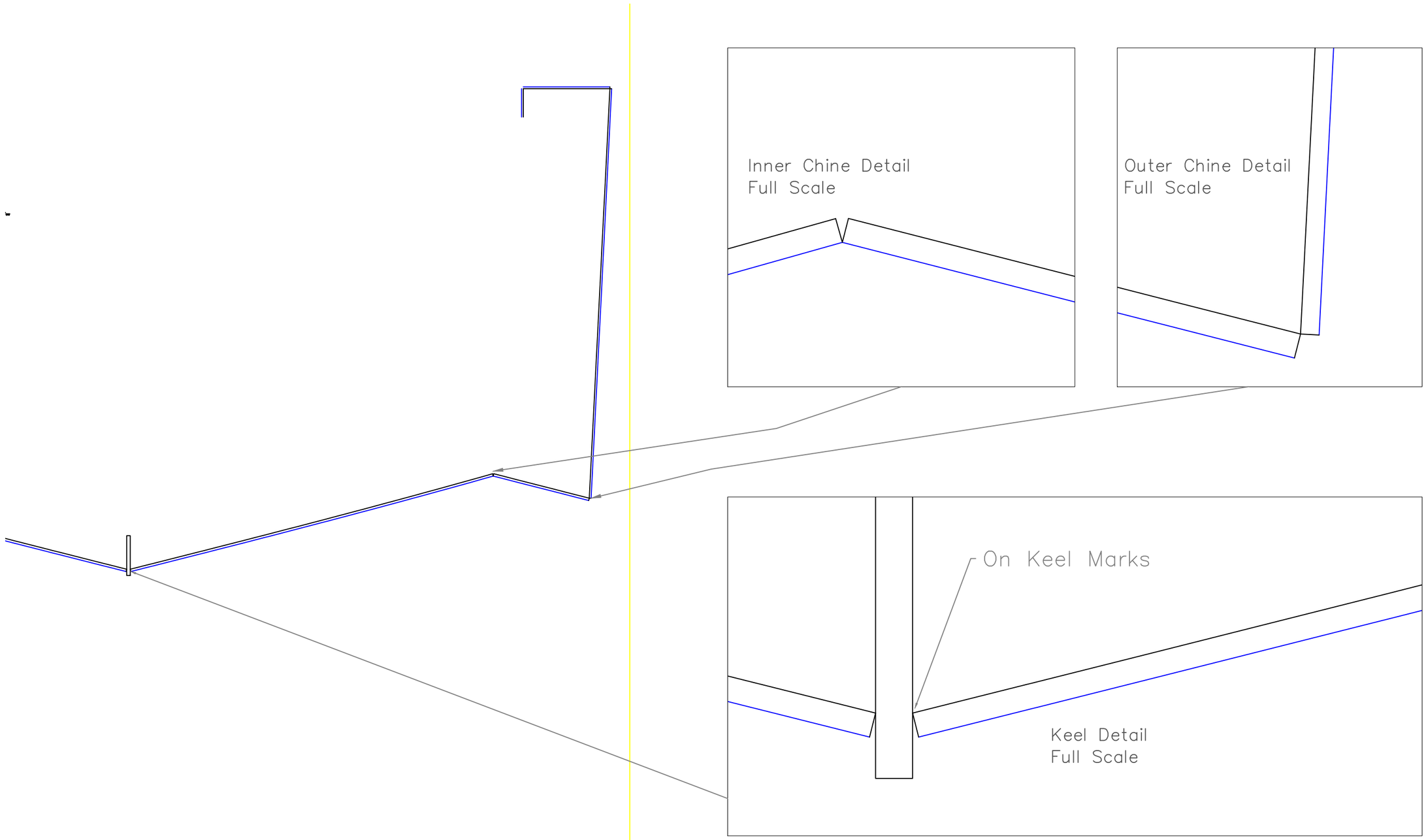
24'x8.5' Cathedral

SCALE	DES/DWN	DATE
1/2" = 1'	WAL	7/20/18

Response Marine, Inc.
Newburyport, MA, www.responsemarine.com

SHEET

DWG NO. 576-2-6



REV.	DESCRIPTION

Hull Joint Details– Bottom

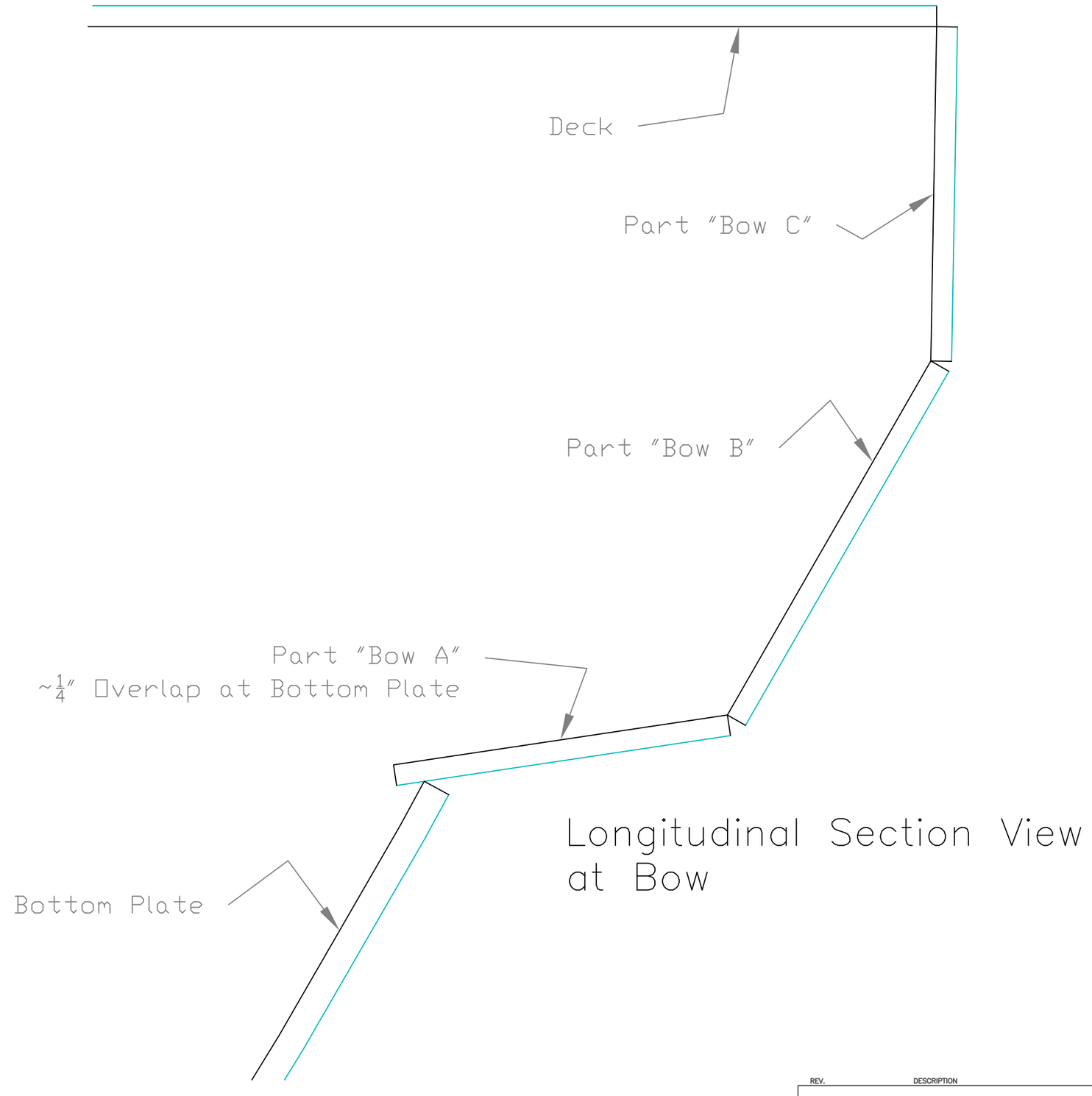
24'x8.5' Cathedral

SCALE	DES/DWN	DATE
noted	WAL	7/20/18

Response Marine, Inc.
Newburyport, MA, www.responsemarine.com

SHEET

DWG NO. 576–2–7A



Longitudinal Section View at Bow

REV.	DESCRIPTION

Hull Joint Details–Bow

24'x8.5' Cathedral

SCALE	DES/DWN	DATE
FULL	WAL	7/20/18

Response Marine, Inc.
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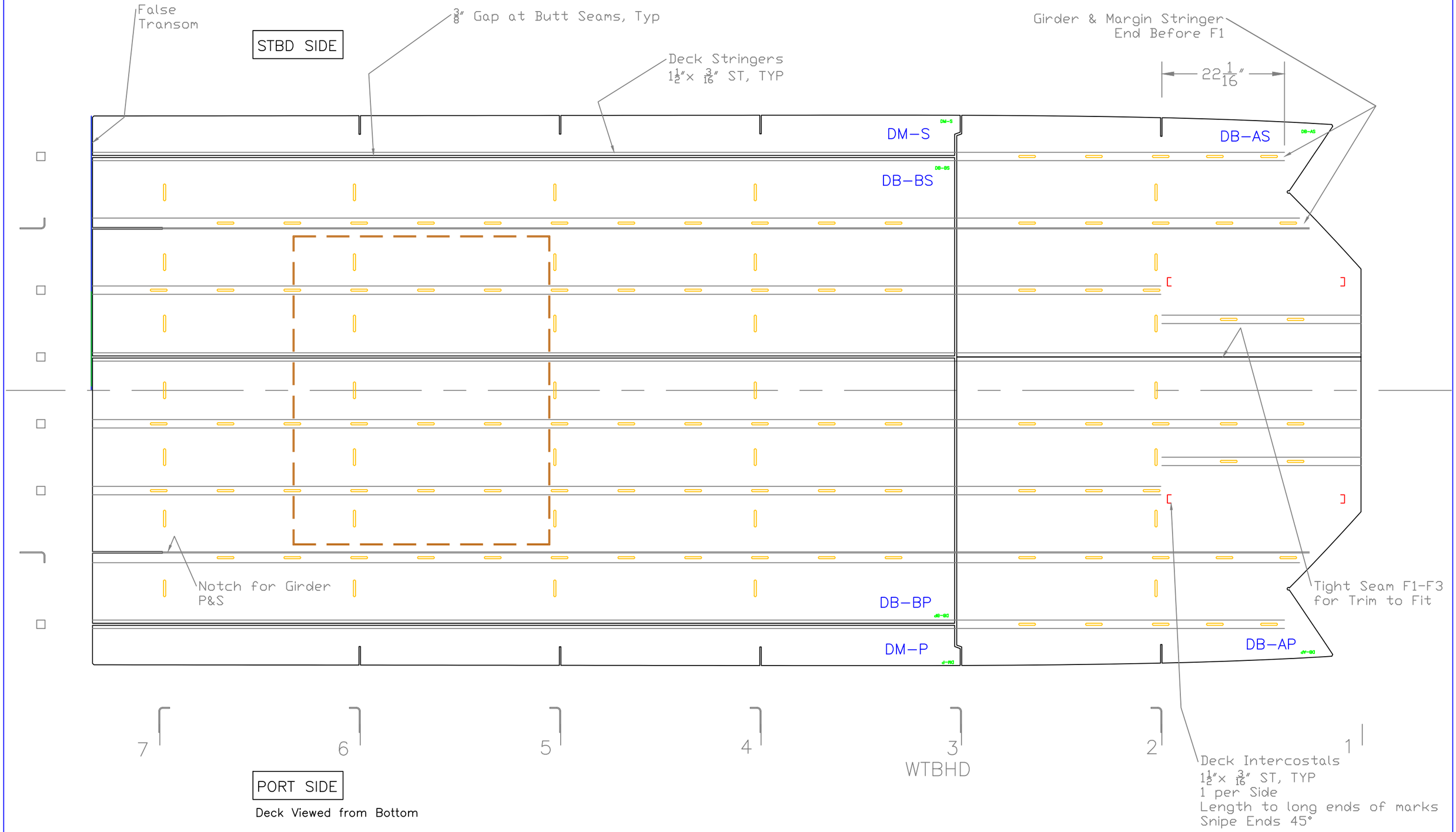
SHEET

DWG NO. 576–2–7B



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REV. | DESCRIPTION

COCKPIT DECK

24'x8.5' Cathedral

SCALE	DES/DWN	DATE
3/4" = 1'	WAL	7/20/18

SHEET

Response Marine, Inc.
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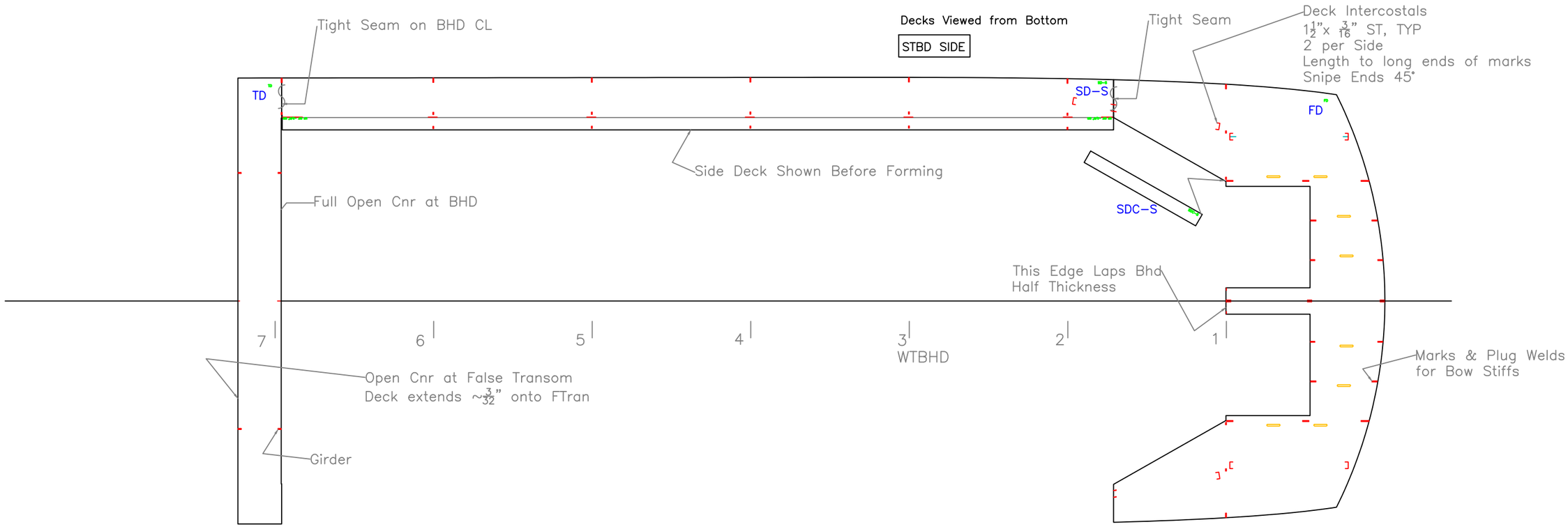
DWG NO. 576-2-8



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REV.	DESCRIPTION

SIDE DECKS

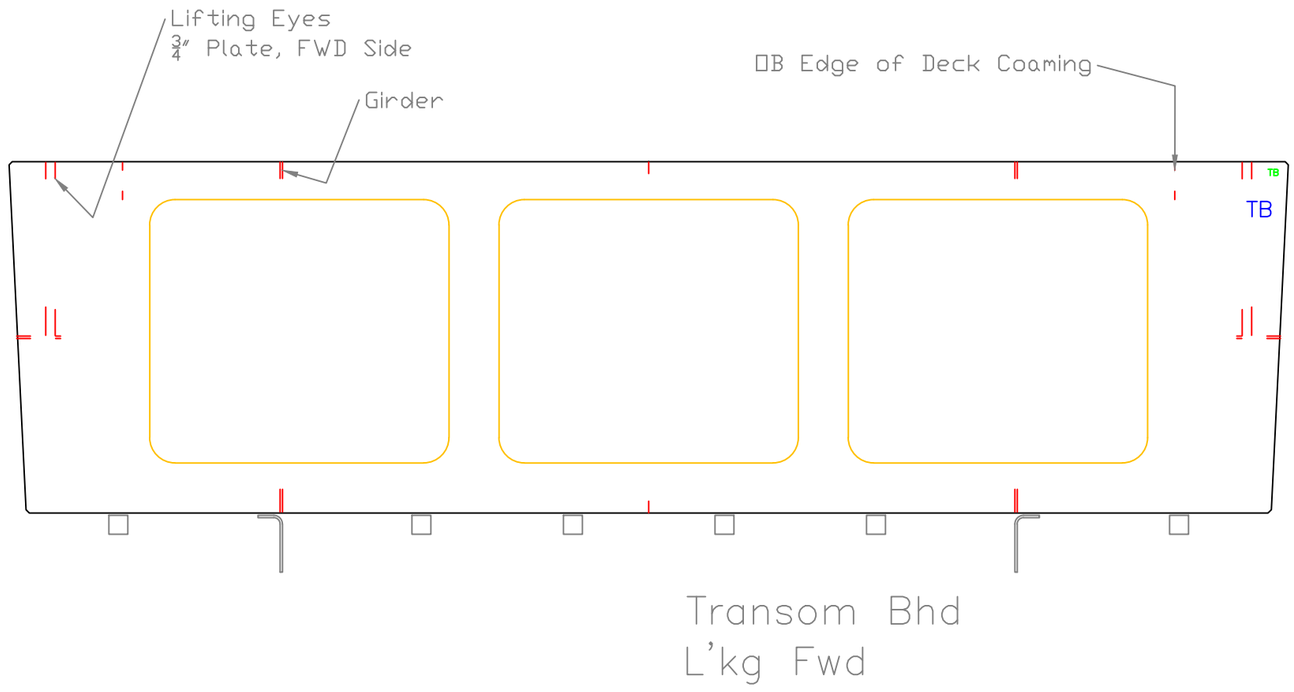
24'x8.5' Cathedral

SCALE	DES/DWN	DATE
1/2" = 1'	WAL	7/20/18

Response Marine, Inc.
Newburyport, MA, www.responsemarine.com

SHEET

DWG NO. 576-2-9



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REV.	DESCRIPTION

TRANSOM LOCKER

24'x8.5' Cathedral

SCALE	DES/DWN	DATE
1" = 1'	WAL	7/20/18

Response Marine, Inc.
Newburyport, MA, www.responsemarine.com

SHEET

DWG NO. 576–2–13

APPLIES TO:

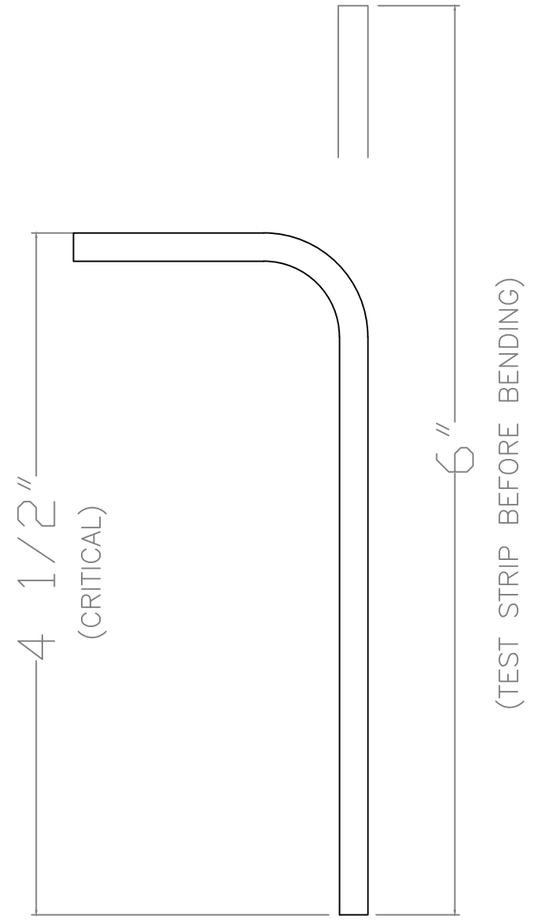
BS-1P	Bow Stiffener #1, Port
BS-2P	Bow Stiffener #2, Port
BS-3P	Bow Stiffener #3, Port
BS-1S	Bow Stiffener #1, Stbd
BS-2S	Bow Stiffener #2, Stbd
BS-3S	Bow Stiffener #3, Stbd
BL3-GP	Bottom Girder (Tran to fwd of F2), Port
BL3-GS	Bottom Girder (Tran to fwd of F2), Stbd
F2	Frame 2
F2-P	Frame 2, Upper, Port
F2-S	Frame 2, Upper, Stbd
F3	Frame 3, WTBHD
F3-P	Frame 3, Upper, Port
F3-S	Frame 3, Upper, Stbd
F4	Frame 4
F4-P	Frame 4, Upper Port
F4-S	Frame 4, Upper Stbd
F5	Frame 5
F5-P	Frame 5, Upper Port
F5-S	Frame 5, Upper Stbd
F6	Frame 6
F6-P	Frame 6, Upper, Port
F6-S	Frame 6, Upper, Stbd
F7	Frame 7
TK-P	Transom Knee at ~15" off CL, Port
TK-S	Transom Knee at ~15" off CL, Stbd
TSL-1B-P	Topsides Stringer #1 (Shelf F1-Tran Bhd), Port
TSL-1B-S	Topsides Stringer #1 (Shelf F1-Tran Bhd), Stbd

(1) Each, Total Qty= 28

STANDARD FLANGE BENDING: 3/16" 5086/83 H116 Stock

1) Confirm results for dimensions and cracking with test strips before bending frames.
2) Expected Die Radius is ½"
3) Flanges are designed for outside major flange length of 1½" less than flat stock length as shown.
4) Expected Back Gauge setting is 1.68", but confirm and adjust, based on test strip.

Parts to be flanged per this same set–up are listed at left.



BENDING FLANGE– B–1

24'x8.5' Cathedral

SCALE	DES/DWN	DATE
FULL	WAL	7/20/18

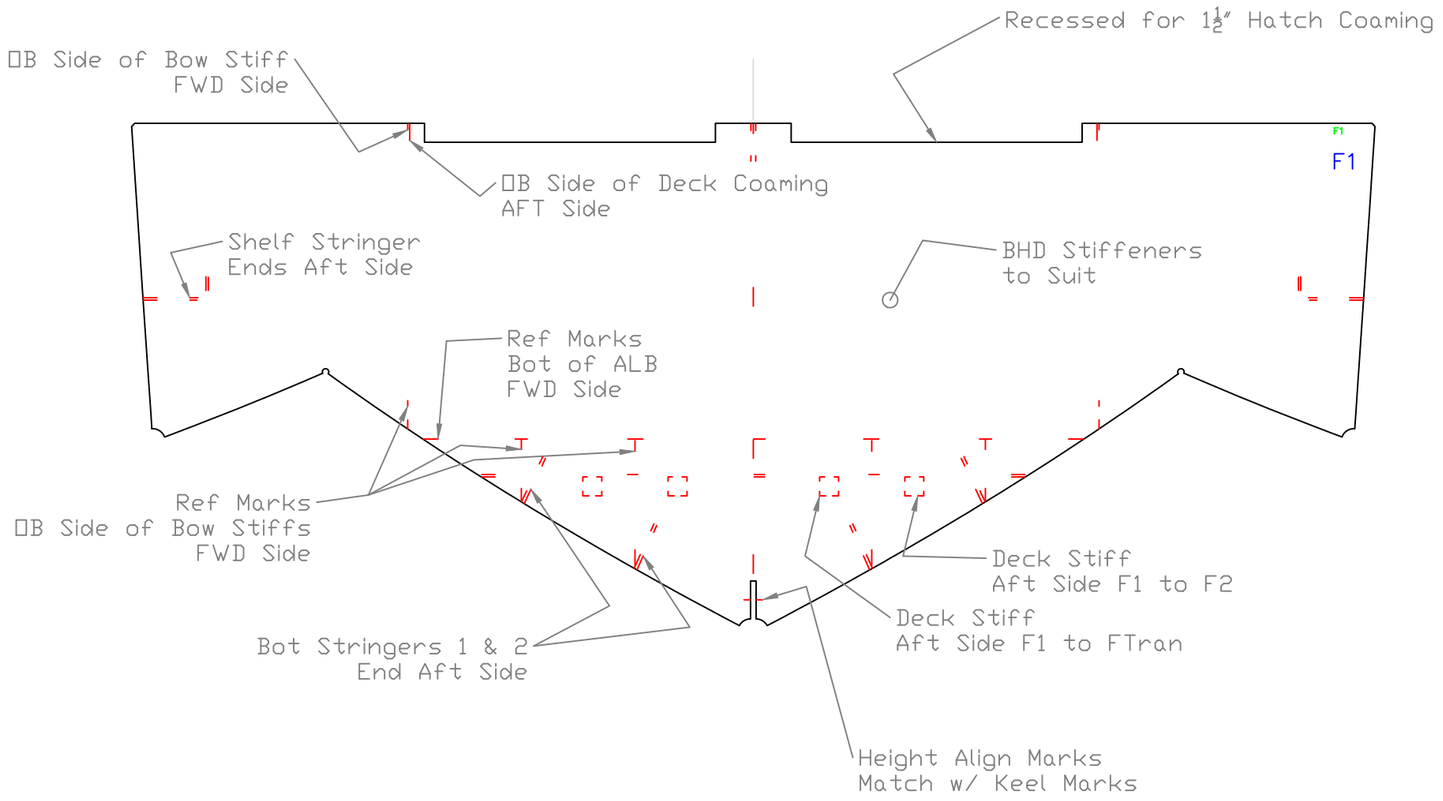
REV.	DESCRIPTION

Response Marine, Inc.
Newburyport, MA, www.responsemarine.com

SHEET

DWG NO. 576–B–1

Lk'g FWD
Install Marks AFT



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REV.	DESCRIPTION

FRAME 1

24'x8.5' Cathedral

SCALE	DES/DWN	DATE
1" = 1'	WAL	7/20/18

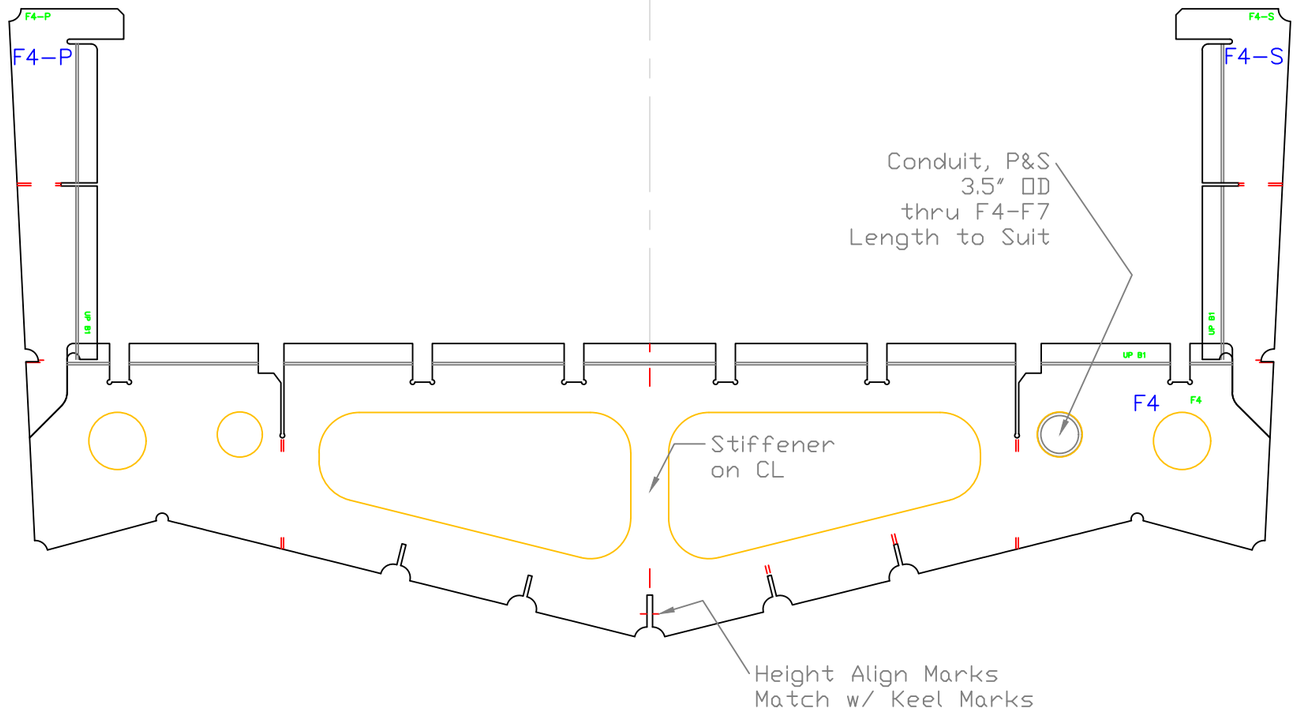
Response Marine, Inc.
Newburyport, MA, www.responsemarine.com

SHEET

DWG NO. 576-F1

Lk'g FWD
Install Flanges & Marks AFT

Parts Shown before Bending



Drawings & NC Parts Files are provided to ReconCraft for construction of the initial boat only. Use of drawings & files for purposes other than constructing this boat is prohibited without the pre–payment of additional fees to Response Marine, Inc.

REV.	DESCRIPTION

FRAME 4

24'x8.5' Cathedral

SCALE	DES/DWN	DATE
1" = 1'	WAL	7/20/18

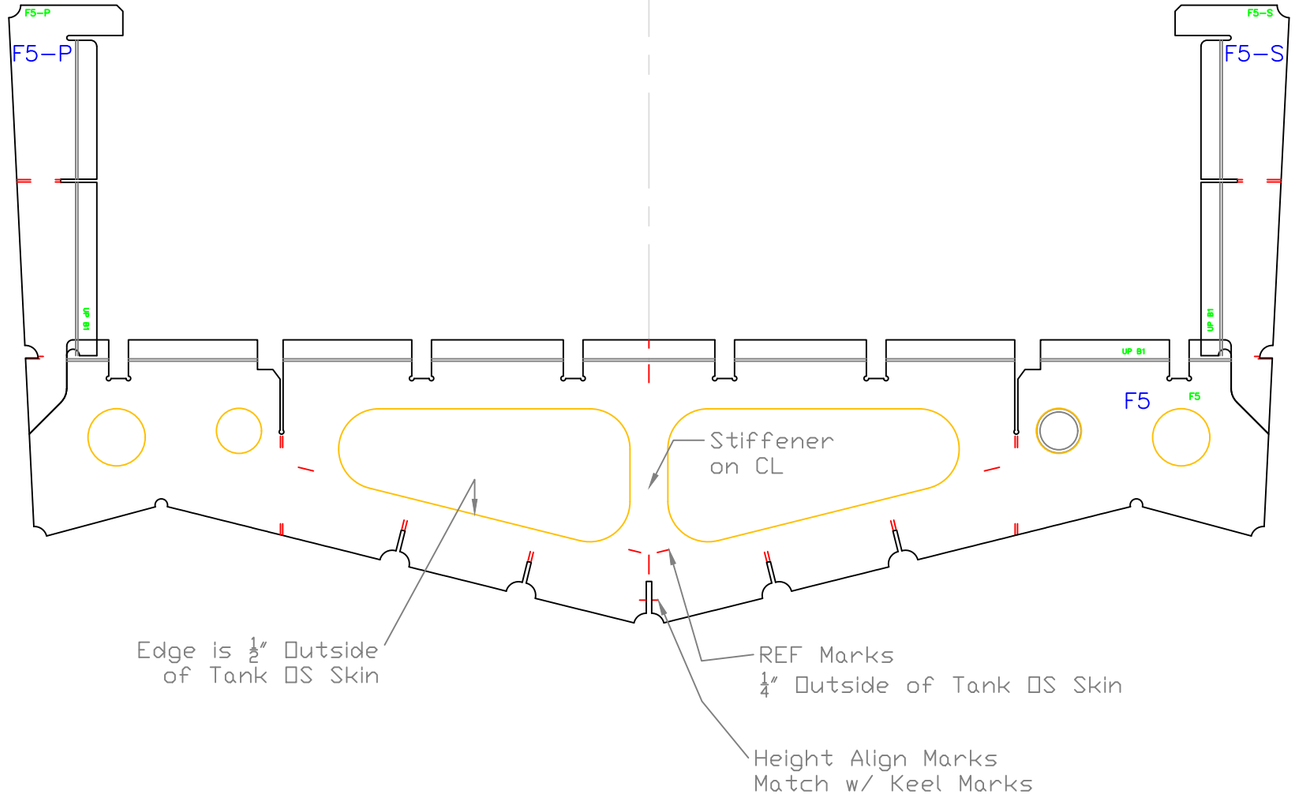
Response Marine, Inc.
Newburyport, MA, www.responsemarine.com

SHEET

DWG NO. 576–F4

Lk'g FWD
Install Flanges & Marks AFT

Parts Shown before Bending



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Use of drawings & files for purposes other than constructing this boat is prohibited
without the pre–payment of additional fees to Response Marine, Inc.

REV.	DESCRIPTION

FRAME 5

24'x8.5' Cathedral

SCALE	DES/DWN	DATE
1" = 1'	WAL	7/20/18

SHEET

Response Marine, Inc.
Newburyport, MA, www.responsemarine.com

DWG NO. 576–F5