

C&W DIVING SERVICES, INC.

BAE SAN FRANCISCO DRY DOCK 2 UT READINGS

INSPECTION REPORT

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C&W Diving Services, Inc.
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August 3, 2016

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1. General Information

Project: BAE Systems San Francisco Dry dock No. 2

Location: Pier 70, San Francisco, California. 94107 in the San Francisco Bay

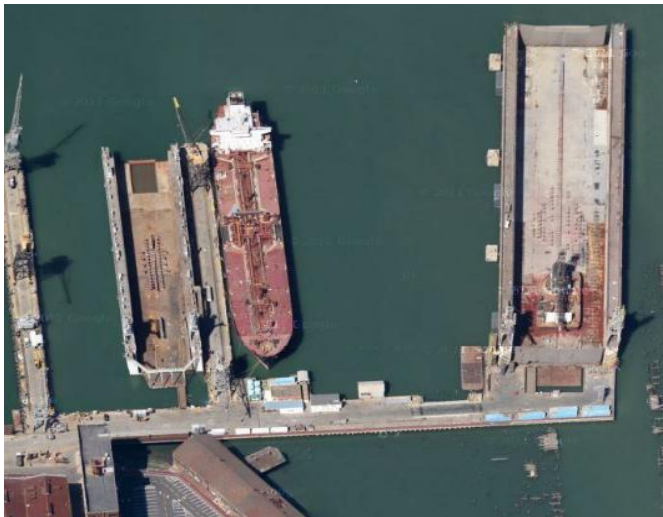
Customer: BAE Systems San Francisco Ship Repair

Date of Report: August 3, 2016 (revised from January 15, 2016)

Type: Level 2 Inspection, UT thickness readings

Date of Inspection: January 6-14, March 16-18, July 13-16, 2016

BAE SYSTEMS



BAE Systems San Francisco Ship Repair Dry dock No.2 is located at Pier 70, San Francisco, California. 94107 in San Francisco Bay.

Dry dock No. 2 is 800' long x 186' wide x 69' tall.

C&W carried out ultrasonic thickness readings on the pontoon bottom (center tanks only), the topside pontoon deck, the west side exterior/interior wing walls, the east side exterior/interior wing walls, the safety deck west/east, and the wing wall deck west/east.



2. Equipment Used for the Inspection

2.1. Diving System. All equipment is certified and in compliance with ADCI (Association of Diving Contractors International) Standards. (Check One)

<input type="checkbox"/>	Shallow Air System	Qty.	<input type="checkbox"/>	Deep Air System	Qty.
	Sufficient Air Compressor	1		Sufficient Air Compressor	2
	HP Backup Air Supply	1		HP Backup Air Supply	1
	Volume Tank	1		Volume Tank	2
	2-Diver Air Manifold	1		Air Manifold	1
	Communication System	2		Communication System	2
				Decompression Chambers	1
				Oxygen Supply for Treatment	2
<input type="checkbox"/>	Surface Mixed-Gas System	Qty.	<input type="checkbox"/>	Surface Mixed-Gas cont..	
	Sufficient Air Compressor	1		Bottom-Mix Gas Supply	2
	HP Backup Air Supply	1		Decompression Gas Supply	2
	Volume Tank	1		Diver Stage/Bell	1
	Air Manifold	1			
	Communication System	2			
	Decompression Chambers	2			
	Oxygen Supply for Treatment	2			

2.2. Work Platform

<input type="checkbox"/>	From Dive Van	<input type="checkbox"/>	From Dive Trailer
<input type="checkbox"/>	From Pier	<input checked="" type="checkbox"/>	From Barge
<input checked="" type="checkbox"/>	From Vessel	<input type="checkbox"/>	(Other)

2.3. Ingress/Egress

<input checked="" type="checkbox"/>	Secured ladder	<input type="checkbox"/>	Ladder welded to vessel/barge
<input type="checkbox"/>	Dive Stage/Bell	<input type="checkbox"/>	Walk-in entry
<input type="checkbox"/>	Walk-in entry from vessel	<input type="checkbox"/>	Tri-Pod with retrieval line

2.4. Inspection Equipment

<input type="checkbox"/>	Underwater Video and Light	<input checked="" type="checkbox"/>	Non-Destructive Testing Equipment
<input type="checkbox"/>	Robot Operated Vehicle		Cygnus 1 Multiple Echo U/W Ultrasonic thickness gauge (spec sheet attached)
<input type="checkbox"/>	Underwater Still Photography	<input type="checkbox"/>	Destructive Testing Equipment
		<input type="checkbox"/>	Topside Camcorder

2.5. Inspection Type

<input type="checkbox"/>	Level 1 Inspection:	Visual inspection in which no marine growth is removed
<input checked="" type="checkbox"/>	Level 2 Inspection:	Visual inspection in which some marine growth is removed
<input type="checkbox"/>	Level 3 Inspection:	Non-Destructive and/or Destructive Testing is conducted.

3. Summary of Inspection

3.1. General Description of Survey

C&W Diving Services, Inc. (C&W) mobilized a 6-man team (and follow-up 2-man teams) to carry out UT readings on BAE's San Francisco Dry dock No. 2 at the locations listed below in table 1.

BAE Systems San Francisco Ship Repair provided C&W with the original ("built") thickness of the steel. Appendices 1-10 report the thickness readings ascertained during our January 6-14, Mar 16-18, and July 13-16, 2016 inspections. A comparison of the current thickness to its original thickness are also included.

Appendix. No.	Location	Side
1	Pontoon Deck	Bottom Center Tanks
2	Pontoon Deck	Topside
3	Wing Wall Exterior	East
4	Wing Wall Exterior	West
5	Wing Wall Interior	East
6	Wing Wall Interior	West
7	Wing Wall Deck	East
8	Wing Wall Deck	West
9	Safety Deck	East
10	Safety Deck	West

Table 1: BAE Dry dock 2 UT thickness reading locations and quantities

3.2. Pontoon Deck – Bottom Center Tanks

3.2.1. The Pontoon Deck Bottom Center Tank inspection was carried out by a 2-man team using a Cygnus 1 ultrasonic thickness gauge. Technicians entered center tanks from topside. Reading were taken at centerline, 5 and 9 feet east and west of centerline (5 readings per belt). Belts were located 6 inches north of frames (or "sliders") and between frames. Two additional belts of reading were taken 6 inches from north and south bulkheads for a total of 161 belts.



Figure 1: Technician holding the Cygnus 1 UT gauge probe against bottom steel after superficial rust and mud was removed with chipping hammer.

3.2.2. See Appendix 1 for thickness readings and comparisons.

3.3. Pontoon Deck – Topside

3.3.1. Readings on the pontoon deck were taken on a 5'x5' grid pattern outside of the doubler plates that run in varying widths along the center of the pontoon deck (Figure 2).

3.3.2. See Appendix 2 for thickness readings and comparisons.

3.4. Wing Wall Exterior/Interior – West and East

3.4.1. A barge and tug were utilized by C&W and a 40' man lift was lashed to the deck (Figure 3). This allowed access to the outside wing walls along sides, east and west, to obtain readings on a 5'x5' grid from the bottom edge to 48' and 40' belts with shots at 10' increments above the 48' mark.

3.4.2. Readings were also taken on the vertical insides of the wing walls on 40' belts with shots every 10'. These readings were taken utilizing a man lift inside the dock.

3.4.3. See Appendices 3, 4, 5 and 6 for thickness readings and comparisons.



Figure 2: UT Reading on the Pontoon Deck topside.

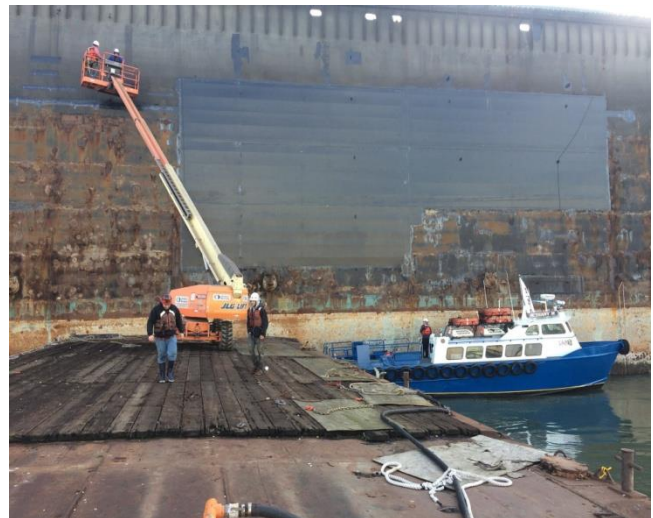


Figure 3: Man lift secured to barge while M/V Wanda S pushed it on location.

3.5 Wing Wall Deck – West and East

- 3.5.1** The top deck of the wing walls were also surveyed utilizing 40' belts with 3 shots taken per belt on both the east and west wing walls.
- 3.5.2** See Appendices 7 and 8 for thickness readings and comparisons.

3.6 Safety Deck – West and East

- 3.6.1** The “safety deck” below the wing wall deck was also surveyed utilizing 40' belts with 3 shots taken per belt on both the east and west wing walls.
- 3.6.2** See Appendices 9 and 10 for thickness readings.

Appendix 1: Pontoon Deck-Bottom (Center Tanks)

Updated UTs taken on the floor of center tanks July 2016

Bow	Feet	0	5	10	15	20	25	30	35	40	45	50
West	Belt	1	2	3	4	5	6	7	8	9	10	11
	10	0.480	0.460	0.490	0.495	0.490	0.465	0.480	0.485	0.445	0.480	0.465
	5	0.495	0.495	0.485	0.495	0.440	0.420	0.470	0.460	0.460	0.470	0.235
	0	0.485	0.480	0.480	0.495	0.450	0.490	0.480	0.475	0.490	0.495	0.495
East	5	0.485	0.490	0.495	0.495	0.445	0.475	0.465	0.485	0.460	0.500	0.480
	10	0.500	0.490	0.495	0.480	0.495	0.475	0.500	0.500	0.495	0.500	0.480
	Feet	0	5	10	15	20	25	30	35	40	45	50
Bow	Belt	1	2	3	4	5	6	7	8	9	10	11

< South

Appendix 1: Pontoon Deck-Bottom (Center Tanks)

Bow	Feet	55	60	65	70	75	80	85	90	95	100	105
West	Belt	12	13	14	15	16	17	18	19	20	21	22
	10	0.430	0.465	0.480	0.410	0.480	0.445	0.465	0.455	0.465	0.470	0.470
	5	0.485	0.385	0.485	0.460	0.495	0.420	0.460	0.444	0.485	0.480	0.495
	0	0.475	0.490	0.475	0.480	0.440	0.485	0.475	0.495	0.485	0.505	0.495
East	5	0.480	0.490	0.380	0.500	0.440	0.490	0.480	0.470	0.440	0.450	0.425
	10	0.235	0.285	0.295	0.480	0.460	0.265	0.495	0.475	0.445	0.445	0.465
	Feet	55	60	65	70	75	80	85	90	95	100	105
Bow	Belt	12	13	14	15	16	17	18	19	20	21	22

< South

Appendix 1: Pontoon Deck-Bottom (Center Tanks)

Bow	Feet	110	115	120	125	130	135	140	145	150	155	160
West	Belt	23	24	25	26	27	28	29	30	31	32	33
	10	0.485	0.470	0.480	0.480	0.495	0.455	0.485	0.450	0.470	0.480	0.495
	5	0.460	0.460	0.500	0.480	0.445	0.470	0.450	0.465	0.470	0.435	0.405
	0	0.455	0.450	0.440	0.495	0.485	0.495	0.485	0.485	0.435	0.440	0.506
East	5	0.470	0.450	0.445	0.450	0.495	0.480	0.455	0.475	0.485	0.475	0.465
	10	0.470	0.500	0.490	0.460	0.485	0.480	0.500	0.480	0.465	0.475	0.265
	Feet	110	115	120	125	130	135	140	145	150	155	160
Bow	Belt	23	24	25	26	27	28	29	30	31	32	33

< South

Appendix 1: Pontoon Deck-Bottom (Center Tanks)

Bow	Feet	165	170	175	180	185	190	195	200	205	210	215
West	Belt	34	35	36	37	38	39	40	41	42	43	44
	10	0.500	0.475	0.500	0.495	0.470	0.475	0.415	0.485	0.450	0.460	0.700
	5	0.425	0.485	0.480	0.485	0.495	0.455	0.485	0.465	0.475	0.460	0.445
	0	0.500	0.490	0.495	0.500	0.505	0.470	0.495	0.500	0.515	0.515	0.510
East	5	0.475	0.480	0.450	0.480	0.485	0.485	0.495	0.480	0.480	0.495	0.490
	10	0.485	0.490	0.480	0.440	0.485	0.480	0.445	0.485	0.470	0.485	0.445
	Feet	165	170	175	180	185	190	195	200	205	210	215
Bow	Belt	34	35	36	37	38	39	40	41	42	43	44

< South

Appendix 1: Pontoon Deck-Bottom (Center Tanks)

Bow	Feet	220	225	230	235	240	245	250	255	260	265	270
West	Belt	45	46	47	48	49	50	51	52	53	54	55
	10	0.480	0.460	0.460	0.465	0.505	0.500	0.505	0.520	0.485	0.490	0.535
	5	0.475	0.465	0.480	0.480	0.510	0.495	0.535	0.460	0.480	0.490	0.515
	0	0.480	0.455	0.495	0.500	0.520	0.500	0.490	0.500	0.495	0.490	0.520
East	5	0.500	0.495	0.465	0.465	0.495	0.500	0.500	0.495	0.490	0.520	0.435
	10	0.485	0.480	0.480	0.475	0.495	0.480	0.495	0.490	0.485	0.470	0.475
	Feet	220	225	230	235	240	245	250	255	260	265	270
Bow	Belt	45	46	47	48	49	50	51	52	53	54	55

< South

Appendix 1: Pontoon Deck-Bottom (Center Tanks)

Bow	Feet	275	280	285	290	295	300	305	310	315	320	325
West	Belt	56	57	58	59	60	61	62	63	64	65	66
	10	0.485	0.480	0.495	0.495	0.500	0.495	0.480	0.495	0.485	0.450	0.500
	5	0.520	0.500	0.480	0.480	0.510	0.495	0.500	0.485	0.480	0.460	0.495
	0	0.460	0.500	0.500	0.500	0.495	0.505	0.485	0.500	0.495	0.445	0.495
East	5	0.455	0.485	0.470	0.495	0.495	0.505	0.505	0.500	0.500	0.480	0.495
	10	0.490	0.480	0.475	0.475	0.510	0.470	0.485	0.505	0.480	0.475	0.465
	Feet	275	280	285	290	295	300	305	310	315	320	325
Bow	Belt	56	57	58	59	60	61	62	63	64	65	66

< South

Appendix 1: Pontoon Deck-Bottom (Center Tanks)

Bow	Feet	330	335	340	345	350	355	360	365	370	375	380
West	Belt	67	68	69	70	71	72	73	74	75	76	77
	10	0.475	0.500	0.495	0.495	0.500	0.480	0.490	0.480	0.480	0.505	0.470
	5	0.500	0.500	0.475	0.500	0.485	0.495	0.455	0.500	0.495	0.500	0.490
	0	0.495	0.500	0.500	0.485	0.505	0.495	0.520	0.515	0.490	0.500	0.510
East	5	0.510	0.495	0.510	0.465	0.505	0.485	0.505	0.505	0.490	0.510	0.505
	10	0.480	0.480	0.480	0.490	0.495	0.500	0.480	0.465	0.485	0.490	0.470
	Feet	330	335	340	345	350	355	360	365	370	375	380
Bow	Belt	67	68	69	70	71	72	73	74	75	76	77

< South

Appendix 1: Pontoon Deck-Bottom (Center Tanks)

Bow	Feet	385	390	395	400	405	410	415	420	425	430	435
West	Belt	78	79	80	81	82	83	84	85	86	87	88
	10	0.480	0.475	0.475	0.410	0.460	0.465	0.480	0.465	0.475	0.455	0.475
	5	0.505	0.485	0.500	0.475	0.455	0.440	0.460	0.440	0.500	0.445	0.465
	0	0.515	0.510	0.495	0.475	0.480	0.405	0.480	0.430	0.450	0.440	0.485
East	5	0.490	0.495	0.460	0.435	0.480	0.405	0.410	0.460	0.510	0.460	0.460
	10	0.485	0.500	0.510	0.410	0.455	0.490	0.450	0.435	0.445	0.450	0.435
	Feet	385	390	395	400	405	410	415	420	425	430	435
Bow	Belt	78	79	80	81	82	83	84	85	86	87	88

< South

Appendix 1: Pontoon Deck-Bottom (Center Tanks)

Bow	Feet	440	445	450	455	460	465	470	475	480	485	490
West	Belt	89	90	91	92	93	94	95	96	97	98	99
	10	0.430	0.460	0.470	0.450	0.495	0.475	0.530	0.455	0.465	0.450	0.495
	5	0.470	0.470	0.475	0.485	0.495	0.475	0.500	0.500	0.480	0.490	0.470
	0	0.510	0.495	0.515	0.490	0.460	0.475	0.485	0.470	0.475	0.465	0.455
East	5	0.485	0.470	0.475	0.460	0.450	0.500	0.480	0.465	0.480	0.485	0.475
	10	0.445	0.485	0.485	0.460	0.465	0.480	0.465	0.460	0.505	0.475	0.500
	Feet	440	445	450	455	460	465	470	475	480	485	490
Bow	Belt	89	90	91	92	93	94	95	96	97	98	99

< South

Appendix 1: Pontoon Deck-Bottom (Center Tanks)

Bow	Feet	495	500	505	510	515	520	525	530	535	540	545
West	Belt	100	101	102	103	104	105	106	107	108	109	110
	10	0.445	0.440	0.455	0.460	0.460	0.455	0.455	0.460	0.455	0.440	0.475
	5	0.460	0.495	0.475	0.440	0.460	0.450	0.460	0.465	0.445	0.425	0.435
	0	0.465	0.470	0.485	0.480	0.460	0.450	0.455	0.465	0.455	0.455	0.485
East	5	0.485	0.475	0.465	0.495	0.485	0.420	0.425	0.480	0.435	0.475	0.480
	10	0.485	0.460	0.480	0.475	0.460	0.475	0.410	0.430	0.460	0.455	0.505
	Feet	495	500	505	510	515	520	525	530	535	540	545
Bow	Belt	100	101	102	103	104	105	106	107	108	109	110

< South

Appendix 1: Pontoon Deck-Bottom (Center Tanks)

Bow	Feet	550	555	560	565	570	575	580	585	590	595	600
West	Belt	111	112	113	114	115	116	117	118	119	120	121
	10	0.465	0.445	0.470	0.460	0.460	0.455	0.445	0.435	0.475	0.435	0.485
	5	0.495	0.415	0.435	0.500	0.460	0.430	0.440	0.465	0.430	0.455	0.485
	0	0.445	0.520	0.485	0.415	0.455	0.475	0.460	0.445	0.470	0.460	0.485
East	5	0.445	0.470	0.490	0.500	0.480	0.465	0.475	0.450	0.440	0.440	0.475
	10	0.480	0.450	0.510	0.515	0.465	0.450	0.465	0.465	0.445	0.445	0.465
	Feet	550	555	560	565	570	575	580	585	590	595	600
Bow	Belt	111	112	113	114	115	116	117	118	119	120	121

< South

Appendix 1: Pontoon Deck-Bottom (Center Tanks)

Bow	Feet	605	610	615	620	625	630	635	640	645	650	655
West	Belt	122	123	124	125	126	127	128	129	130	131	132
	10	0.485	0.460	0.485	0.460	0.485	0.475	0.470	0.490	0.490	0.470	0.500
	5	0.485	0.485	0.460	0.475	0.470	0.475	0.460	0.485	0.495	0.485	0.495
	0	0.485	0.480	0.485	0.465	0.420	0.490	0.485	0.490	0.495	0.490	0.480
East	5	0.480	0.500	0.520	0.495	0.500	0.490	0.500	0.500	0.465	0.480	0.490
	10	0.460	0.495	0.500	0.495	0.505	0.495	0.490	0.500	0.500	0.490	0.500
	Feet	605	610	615	620	625	630	635	640	645	650	655
Bow	Belt	122	123	124	125	126	127	128	129	130	131	132

< South

Appendix 1: Pontoon Deck-Bottom (Center Tanks)

Bow	Feet	660	665	670	675	680	685	690	695	700	705	710
West	Belt	133	134	135	136	137	138	139	140	141	142	143
	10	0.495	0.495	0.485	0.465	0.460	0.460	0.475	0.465	0.475	0.490	0.490
	5	0.520	0.495	0.505	0.480	0.460	0.475	0.465	0.485	0.500	0.495	0.485
	0	0.505	0.460	0.460	0.505	0.505	0.490	0.495	0.490	0.490	0.475	0.490
East	5	0.495	0.485	0.475	0.465	0.460	0.475	0.490	0.505	0.505	0.490	0.435
	10	0.465	0.485	0.450	0.485	0.465	0.475	0.480	0.470	0.505	0.465	0.480
	Feet	660	665	670	675	680	685	690	695	700	705	710
Bow	Belt	133	134	135	136	137	138	139	140	141	142	143

< South

Appendix 1: Pontoon Deck-Bottom (Center Tanks)

Bow	Feet	715	720	725	730	735	740	745	750	755	760	765
West	Belt	144	145	146	147	148	149	150	151	152	153	154
	10	0.465	0.480	0.435	0.465	0.455	0.460	0.285	0.480	0.480	0.470	0.480
	5	0.460	0.480	0.475	0.480	0.280	0.235	0.495	0.470	0.480	0.500	0.500
	0	0.455	0.475	0.495	0.485	0.450	0.250	0.490	0.500	0.410	0.510	0.480
East	5	0.485	0.475	0.485	0.470	0.450	0.500	0.490	0.485	0.450	0.500	0.480
	10	0.470	0.485	0.490	0.485	0.495	0.495	0.495	0.475	0.480	0.480	0.510
	Feet	715	720	725	730	735	740	745	750	755	760	765
Bow	Belt	144	145	146	147	148	149	150	151	152	153	154

< South

Appendix 1: Pontoon Deck-Bottom (Center Tanks)

Bow	Feet	770	775	780	785	790	795	800	Feet	Bow
West	Belt	155	156	157	158	159	160	161	Belt	West
	10	0.485	0.500	0.490	0.480	0.495	0.490	0.460	10	
	5	0.500	0.485	0.500	0.505	0.495	0.485	0.500	5	
	0	0.500	0.485	0.515	0.495	0.505	0.500	0.480	0	
East	5	0.490	0.480	0.490	0.500	0.505	0.505	0.485	5	East
	10	0.500	0.470	0.500	0.505	0.495	0.435	0.490	10	
	Feet	770	775	780	785	790	795	800	Feet	
Bow	Belt	155	156	157	158	159	160	161	Belt	Bow

< South North >

Updated UTs taken on the floor of center tanks July 2016
(Same data as preceding table, but with % difference from nominal thickness)

	Feet	0				5				10				15			
	Belt	Built	1	Diff	%	Built	2	Diff	%	Built	3	Diff	%	Built	4	Diff	%
West Side	25	0.438		-0.438	-100%	0.438		-0.438	-100%	0.438		-0.438	-100%	0.438		-0.438	-100%
	20	0.438		-0.438	-100%	0.438		-0.438	-100%	0.438		-0.438	-100%	0.438		-0.438	-100%
	15	0.500		-0.500	-100%	0.500		-0.500	-100%	0.500		-0.500	-100%	0.500		-0.500	-100%
	10	0.500	0.480	-0.020	-4%	0.500	0.460	-0.040	-8%	0.500	0.490	-0.010	-2%	0.500	0.495	-0.005	-1%
	5	0.500	0.495	-0.005	-1%	0.500	0.495	-0.005	-1%	0.500	0.485	-0.015	-3%	0.500	0.495	-0.005	-1%
CL	0	0.500	0.485	-0.015	-3%	0.500	0.480	-0.020	-4%	0.500	0.480	-0.020	-4%	0.500	0.495	-0.005	-1%
East Side	5	0.500	0.485	-0.015	-3%	0.500	0.490	-0.010	-2%	0.500	0.495	-0.005	-1%	0.500	0.495	-0.005	-1%
	10	0.500	0.500	0.000	0%	0.500	0.490	-0.010	-2%	0.500	0.495	-0.005	-1%	0.500	0.480	-0.020	-4%
	15	0.500		-0.500	-100%	0.500		-0.500	-100%	0.500		-0.500	-100%	0.500		-0.500	-100%
	20	0.438		-0.438	-100%	0.438		-0.438	-100%	0.438		-0.438	-100%	0.438		-0.438	-100%
	25	0.438		-0.438	-100%	0.438		-0.438	-100%	0.438		-0.438	-100%	0.438		-0.438	-100%

<South

North>

	Feet	20				25				30				35			
	Belt	Built	5	Diff	%	Built	6	Diff	%	Built	7	Diff	%	Built	8	Diff	%
West Side	25	0.438		-0.438	-100%	0.438		-0.438	-100%	0.438		-0.438	-100%	0.438		-0.438	-100%
	20	0.438		-0.438	-100%	0.438		-0.438	-100%	0.438		-0.438	-100%	0.438		-0.438	-100%
	15	0.500		-0.500	-100%	0.500		-0.500	-100%	0.500		-0.500	-100%	0.500		-0.500	-100%
	10	0.500	0.490	-0.010	-2%	0.500	0.465	-0.035	-7%	0.500	0.480	-0.020	-4%	0.500	0.485	-0.015	-3%
	5	0.500	0.440	-0.060	-12%	0.500	0.420	-0.080	-16%	0.500	0.470	-0.030	-6%	0.500	0.460	-0.040	-8%
CL	0	0.500	0.450	-0.050	-10%	0.500	0.490	-0.010	-2%	0.500	0.480	-0.020	-4%	0.500	0.475	-0.025	-5%
East Side	5	0.500	0.445	-0.055	-11%	0.500	0.475	-0.025	-5%	0.500	0.465	-0.035	-7%	0.500	0.485	-0.015	-3%
	10	0.500	0.495	-0.005	-1%	0.500	0.475	-0.025	-5%	0.500	0.500	0.000	0%	0.500	0.500	0.000	0%
	15	0.500		-0.500	-100%	0.500		-0.500	-100%	0.500		-0.500	-100%	0.500		-0.500	-100%
	20	0.438		-0.438	-100%	0.438		-0.438	-100%	0.438		-0.438	-100%	0.438		-0.438	-100%
	25	0.438		-0.438	-100%	0.438		-0.438	-100%	0.438		-0.438	-100%	0.438		-0.438	-100%

< 15%
 15% to 25%
 25% to 50%
 > 50%

There is only one real reading >50% loss, at Belt 11. The rest are just locations where no measurements were taken

Appendix 1 Comparison: Pontoon Deck Bottom (Center Tanks)

	Feet		40				45				50				55					
	Belt	Built	9	Diff	%		Built	10	Diff	%		Built	11	Diff	%		Built	12	Diff	%
West Side	25	0.438		-0.438	-100%		0.438		-0.438	-100%		0.438		-0.438	-100%		0.438		-0.438	-100%
	20	0.438		-0.438	-100%		0.438		-0.438	-100%		0.438		-0.438	-100%		0.438		-0.438	-100%
	15	0.500		-0.500	-100%		0.500		-0.500	-100%		0.500		-0.500	-100%		0.500		-0.500	-100%
	10	0.500	0.445	-0.055	-11%		0.500	0.480	-0.020	-4%		0.500	0.465	-0.035	-7%		0.500	0.430	-0.070	-14%
	5	0.500	0.460	-0.040	-8%		0.500	0.470	-0.030	-6%		0.500	0.235	-0.265	-53%		0.500	0.485	-0.015	-3%
CL	0	0.500	0.490	-0.010	-2%		0.500	0.495	-0.005	-1%		0.500	0.495	-0.005	-1%		0.500	0.475	-0.025	-5%
East Side	5	0.500	0.460	-0.040	-8%		0.500	0.500	0.000	0%		0.500	0.480	-0.020	-4%		0.500	0.480	-0.020	-4%
	10	0.500	0.495	-0.005	-1%		0.500	0.500	0.000	0%		0.500	0.480	-0.020	-4%		0.500	0.235	-0.265	-53%
	15	0.500		-0.500	-100%		0.500		-0.500	-100%		0.500		-0.500	-100%		0.500		-0.500	-100%
	20	0.438		-0.438	-100%		0.438		-0.438	-100%		0.438		-0.438	-100%		0.438		-0.438	-100%
	25	0.438		-0.438	-100%		0.438		-0.438	-100%		0.438		-0.438	-100%		0.438		-0.438	-100%

<South

North>

	Feet		60				65				70				75					
	Belt	Built	13	Diff	%		Built	14	Diff	%		Built	15	Diff	%		Built	16	Diff	%
West Side	25	0.438		-0.438	-100%		0.438		-0.438	-100%		0.438		-0.438	-100%		0.438		-0.438	-100%
	20	0.438		-0.438	-100%		0.438		-0.438	-100%		0.438		-0.438	-100%		0.438		-0.438	-100%
	15	0.500		-0.500	-100%		0.500		-0.500	-100%		0.500		-0.500	-100%		0.500		-0.500	-100%
	10	0.500	0.465	-0.035	-7%		0.500	0.480	-0.020	-4%		0.500	0.410	-0.090	-18%		0.500	0.480	-0.020	-4%
	5	0.500	0.385	-0.115	-23%		0.500	0.485	-0.015	-3%		0.500	0.460	-0.040	-8%		0.500	0.495	-0.005	-1%
CL	0	0.500	0.490	-0.010	-2%		0.500	0.475	-0.025	-5%		0.500	0.480	-0.020	-4%		0.500	0.440	-0.060	-12%
East Side	5	0.500	0.490	-0.010	-2%		0.500	0.380	-0.120	-24%		0.500	0.500	0.000	0%		0.500	0.440	-0.060	-12%
	10	0.500	0.285	-0.215	-43%		0.500	0.295	-0.205	-41%		0.500	0.480	-0.020	-4%		0.500	0.460	-0.040	-8%
	15	0.500		-0.500	-100%		0.500		-0.500	-100%		0.500		-0.500	-100%		0.500		-0.500	-100%
	20	0.438		-0.438	-100%		0.438		-0.438	-100%		0.438		-0.438	-100%		0.438		-0.438	-100%
	25	0.438		-0.438	-100%		0.438		-0.438	-100%		0.438		-0.438	-100%		0.438		-0.438	-100%

< 15%
 15% to 25%
 25% to 50%
 > 50%

Appendix 1 Comparison: Pontoon Deck Bottom (Center Tanks)

	Feet	80				85				90				95			
	Belt	Built	17	Diff	%	Built	18	Diff	%	Built	19	Diff	%	Built	20	Diff	%
West Side	25	0.438		-0.438	-100%	0.438		-0.438	-100%	0.438		-0.438	-100%	0.438		-0.438	-100%
	20	0.438		-0.438	-100%	0.438		-0.438	-100%	0.438		-0.438	-100%	0.438		-0.438	-100%
	15	0.500		-0.500	-100%	0.500		-0.500	-100%	0.500		-0.500	-100%	0.500		-0.500	-100%
	10	0.500	0.445	-0.055	-11%	0.500	0.465	-0.035	-7%	0.500	0.455	-0.045	-9%	0.500	0.465	-0.035	-7%
	5	0.500	0.420	-0.080	-16%	0.500	0.460	-0.040	-8%	0.500	0.444	-0.056	-11%	0.500	0.485	-0.015	-3%
CL	0	0.500	0.485	-0.015	-3%	0.500	0.475	-0.025	-5%	0.500	0.495	-0.005	-1%	0.500	0.485	-0.015	-3%
East Side	5	0.500	0.490	-0.010	-2%	0.500	0.480	-0.020	-4%	0.500	0.470	-0.030	-6%	0.500	0.440	-0.060	-12%
	10	0.500	0.265	-0.235	-47%	0.500	0.495	-0.005	-1%	0.500	0.475	-0.025	-5%	0.500	0.445	-0.055	-11%
	15	0.500		-0.500	-100%	0.500		-0.500	-100%	0.500		-0.500	-100%	0.500		-0.500	-100%
	20	0.438		-0.438	-100%	0.438		-0.438	-100%	0.438		-0.438	-100%	0.438		-0.438	-100%
	25	0.438		-0.438	-100%	0.438		-0.438	-100%	0.438		-0.438	-100%	0.438		-0.438	-100%

<South

North>

	Feet	100				105				110				115			
	Belt	Built	21	Diff	%	Built	22	Diff	%	Built	23	Diff	%	Built	24	Diff	%
West Side	25	0.438		-0.438	-100%	0.438		-0.438	-100%	0.438		-0.438	-100%	0.438		-0.438	-100%
	20	0.438		-0.438	-100%	0.438		-0.438	-100%	0.438		-0.438	-100%	0.438		-0.438	-100%
	15	0.500		-0.500	-100%	0.500		-0.500	-100%	0.500		-0.500	-100%	0.500		-0.500	-100%
	10	0.500	0.470	-0.030	-6%	0.500	0.470	-0.030	-6%	0.500	0.485	-0.015	-3%	0.500	0.470	-0.030	-6%
	5	0.500	0.480	-0.020	-4%	0.500	0.495	-0.005	-1%	0.500	0.460	-0.040	-8%	0.500	0.460	-0.040	-8%
CL	0	0.500	0.505	0.005	1%	0.500	0.495	-0.005	-1%	0.500	0.455	-0.045	-9%	0.500	0.450	-0.050	-10%
East Side	5	0.500	0.450	-0.050	-10%	0.500	0.425	-0.075	-15%	0.500	0.470	-0.030	-6%	0.500	0.450	-0.050	-10%
	10	0.500	0.445	-0.055	-11%	0.500	0.465	-0.035	-7%	0.500	0.470	-0.030	-6%	0.500	0.500	0.000	0%
	15	0.500		-0.500	-100%	0.500		-0.500	-100%	0.500		-0.500	-100%	0.500		-0.500	-100%
	20	0.438		-0.438	-100%	0.438		-0.438	-100%	0.438		-0.438	-100%	0.438		-0.438	-100%
	25	0.438		-0.438	-100%	0.438		-0.438	-100%	0.438		-0.438	-100%	0.438		-0.438	-100%

< 15%
 15% to 25%
 25% to 50%
 > 50%

Appendix 1 Comparison: Pontoon Deck Bottom (Center Tanks)

	Feet		120				125				130				135					
	Belt	Built	25	Diff	%		Built	26	Diff	%		Built	27	Diff	%		Built	28	Diff	%
West Side	25	0.438		-0.438	-100%		0.438		-0.438	-100%		0.438		-0.438	-100%		0.438		-0.438	-100%
	20	0.438		-0.438	-100%		0.438		-0.438	-100%		0.438		-0.438	-100%		0.438		-0.438	-100%
	15	0.500		-0.500	-100%		0.500		-0.500	-100%		0.500		-0.500	-100%		0.500		-0.500	-100%
	10	0.500	0.480	-0.020	-4%		0.500	0.480	-0.020	-4%		0.500	0.495	-0.005	-1%		0.500	0.455	-0.045	-9%
	5	0.500	0.500	0.000	0%		0.500	0.480	-0.020	-4%		0.500	0.445	-0.055	-11%		0.500	0.470	-0.030	-6%
CL	0	0.500	0.440	-0.060	-12%		0.500	0.495	-0.005	-1%		0.500	0.485	-0.015	-3%		0.500	0.495	-0.005	-1%
East Side	5	0.500	0.445	-0.055	-11%		0.500	0.450	-0.050	-10%		0.500	0.495	-0.005	-1%		0.500	0.480	-0.020	-4%
	10	0.500	0.490	-0.010	-2%		0.500	0.460	-0.040	-8%		0.500	0.485	-0.015	-3%		0.500	0.480	-0.020	-4%
	15	0.500		-0.500	-100%		0.500		-0.500	-100%		0.500		-0.500	-100%		0.500		-0.500	-100%
	20	0.438		-0.438	-100%		0.438		-0.438	-100%		0.438		-0.438	-100%		0.438		-0.438	-100%
	25	0.438		-0.438	-100%		0.438		-0.438	-100%		0.438		-0.438	-100%		0.438		-0.438	-100%

<South

North>

	Feet		140				145				150				155					
	Belt	Built	29	Diff	%		Built	30	Diff	%		Built	31	Diff	%		Built	32	Diff	%
West Side	25	0.438		-0.438	-100%		0.438		-0.438	-100%		0.438		-0.438	-100%		0.438		-0.438	-100%
	20	0.438		-0.438	-100%		0.438		-0.438	-100%		0.438		-0.438	-100%		0.438		-0.438	-100%
	15	0.500		-0.500	-100%		0.500		-0.500	-100%		0.500		-0.500	-100%		0.500		-0.500	-100%
	10	0.500	0.485	-0.015	-3%		0.500	0.450	-0.050	-10%		0.500	0.470	-0.030	-6%		0.500	0.480	-0.020	-4%
	5	0.500	0.450	-0.050	-10%		0.500	0.465	-0.035	-7%		0.500	0.470	-0.030	-6%		0.500	0.435	-0.065	-13%
CL	0	0.500	0.485	-0.015	-3%		0.500	0.485	-0.015	-3%		0.500	0.435	-0.065	-13%		0.500	0.440	-0.060	-12%
East Side	5	0.500	0.455	-0.045	-9%		0.500	0.475	-0.025	-5%		0.500	0.485	-0.015	-3%		0.500	0.475	-0.025	-5%
	10	0.500	0.500	0.000	0%		0.500	0.480	-0.020	-4%		0.500	0.465	-0.035	-7%		0.500	0.475	-0.025	-5%
	15	0.500		-0.500	-100%		0.500		-0.500	-100%		0.500		-0.500	-100%		0.500		-0.500	-100%
	20	0.438		-0.438	-100%		0.438		-0.438	-100%		0.438		-0.438	-100%		0.438		-0.438	-100%
	25	0.438		-0.438	-100%		0.438		-0.438	-100%		0.438		-0.438	-100%		0.438		-0.438	-100%



Appendix 1 Comparison: Pontoon Deck Bottom (Center Tanks)

	Feet		160				165				170				175					
	Belt	Built	33	Diff	%		Built	34	Diff	%		Built	35	Diff	%		Built	36	Diff	%
West Side	25	0.438		-0.438	-100%		0.438		-0.438	-100%		0.438		-0.438	-100%		0.438		-0.438	-100%
	20	0.438		-0.438	-100%		0.438		-0.438	-100%		0.438		-0.438	-100%		0.438		-0.438	-100%
	15	0.500		-0.500	-100%		0.500		-0.500	-100%		0.500		-0.500	-100%		0.500		-0.500	-100%
	10	0.500	0.495	-0.005	-1%		0.500	0.500	0.000	0%		0.500	0.475	-0.025	-5%		0.500	0.500	0.000	0%
	5	0.500	0.405	-0.095	-19%		0.500	0.425	-0.075	-15%		0.500	0.485	-0.015	-3%		0.500	0.480	-0.020	-4%
CL	0	0.500	0.506	0.006	1%		0.500	0.500	0.000	0%		0.500	0.490	-0.010	-2%		0.500	0.495	-0.005	-1%
East Side	5	0.500	0.465	-0.035	-7%		0.500	0.475	-0.025	-5%		0.500	0.480	-0.020	-4%		0.500	0.450	-0.050	-10%
	10	0.500	0.265	-0.235	-47%		0.500	0.485	-0.015	-3%		0.500	0.490	-0.010	-2%		0.500	0.480	-0.020	-4%
	15	0.500		-0.500	-100%		0.500		-0.500	-100%		0.500		-0.500	-100%		0.500		-0.500	-100%
	20	0.438		-0.438	-100%		0.438		-0.438	-100%		0.438		-0.438	-100%		0.438		-0.438	-100%
	25	0.438		-0.438	-100%		0.438		-0.438	-100%		0.438		-0.438	-100%		0.438		-0.438	-100%

<South

North>

	Feet		180				185				190				195					
	Belt	Built	37	Diff	%		Built	38	Diff	%		Built	39	Diff	%		Built	40	Diff	%
West Side	25	0.438		-0.438	-100%		0.438		-0.438	-100%		0.438		-0.438	-100%		0.438		-0.438	-100%
	20	0.438		-0.438	-100%		0.438		-0.438	-100%		0.438		-0.438	-100%		0.438		-0.438	-100%
	15	0.500		-0.500	-100%		0.500		-0.500	-100%		0.500		-0.500	-100%		0.500		-0.500	-100%
	10	0.500	0.495	-0.005	-1%		0.500	0.470	-0.030	-6%		0.500	0.475	-0.025	-5%		0.500	0.415	-0.085	-17%
	5	0.500	0.485	-0.015	-3%		0.500	0.495	-0.005	-1%		0.500	0.455	-0.045	-9%		0.500	0.485	-0.015	-3%
CL	0	0.500	0.500	0.000	0%		0.500	0.505	0.005	1%		0.500	0.470	-0.030	-6%		0.500	0.495	-0.005	-1%
East Side	5	0.500	0.480	-0.020	-4%		0.500	0.485	-0.015	-3%		0.500	0.485	-0.015	-3%		0.500	0.495	-0.005	-1%
	10	0.500	0.440	-0.060	-12%		0.500	0.485	-0.015	-3%		0.500	0.480	-0.020	-4%		0.500	0.445	-0.055	-11%
	15	0.500		-0.500	-100%		0.500		-0.500	-100%		0.500		-0.500	-100%		0.500		-0.500	-100%
	20	0.438		-0.438	-100%		0.438		-0.438	-100%		0.438		-0.438	-100%		0.438		-0.438	-100%
	25	0.438		-0.438	-100%		0.438		-0.438	-100%		0.438		-0.438	-100%		0.438		-0.438	-100%

< 15%
 15% to 25%
 25% to 50%
 > 50%

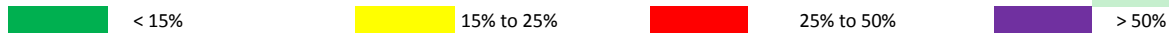
Appendix 1 Comparison: Pontoon Deck Bottom (Center Tanks)

	Feet	200				205				210				215			
	Belt	Built	41	Diff	%	Built	42	Diff	%	Built	43	Diff	%	Built	44	Diff	%
West Side	25	0.438		-0.438	-100%	0.438		-0.438	-100%	0.438		-0.438	-100%	0.438		-0.438	-100%
	20	0.438		-0.438	-100%	0.438		-0.438	-100%	0.438		-0.438	-100%	0.438		-0.438	-100%
	15	0.500		-0.500	-100%	0.500		-0.500	-100%	0.500		-0.500	-100%	0.500		-0.500	-100%
	10	0.500	0.485	-0.015	-3%	0.500	0.450	-0.050	-10%	0.500	0.460	-0.040	-8%	0.500	0.700	0.200	40%
	5	0.500	0.465	-0.035	-7%	0.500	0.475	-0.025	-5%	0.500	0.460	-0.040	-8%	0.500	0.445	-0.055	-11%
CL	0	0.500	0.500	0.000	0%	0.500	0.515	0.015	3%	0.500	0.515	0.015	3%	0.500	0.510	0.010	2%
East Side	5	0.500	0.480	-0.020	-4%	0.500	0.480	-0.020	-4%	0.500	0.495	-0.005	-1%	0.500	0.490	-0.010	-2%
	10	0.500	0.485	-0.015	-3%	0.500	0.470	-0.030	-6%	0.500	0.485	-0.015	-3%	0.500	0.445	-0.055	-11%
	15	0.500		-0.500	-100%	0.500		-0.500	-100%	0.500		-0.500	-100%	0.500		-0.500	-100%
	20	0.438		-0.438	-100%	0.438		-0.438	-100%	0.438		-0.438	-100%	0.438		-0.438	-100%
	25	0.438		-0.438	-100%	0.438		-0.438	-100%	0.438		-0.438	-100%	0.438		-0.438	-100%

<South

North>

	Feet	220				225				230				235			
	Belt	Built	45	Diff	%	Built	46	Diff	%	Built	47	Diff	%	Built	48	Diff	%
West Side	25	0.438		-0.438	-100%	0.438		-0.438	-100%	0.438		-0.438	-100%	0.438		-0.438	-100%
	20	0.438		-0.438	-100%	0.438		-0.438	-100%	0.438		-0.438	-100%	0.438		-0.438	-100%
	15	0.500		-0.500	-100%	0.500		-0.500	-100%	0.500		-0.500	-100%	0.500		-0.500	-100%
	10	0.500	0.480	-0.020	-4%	0.500	0.460	-0.040	-8%	0.500	0.460	-0.040	-8%	0.500	0.465	-0.035	-7%
	5	0.500	0.475	-0.025	-5%	0.500	0.465	-0.035	-7%	0.500	0.480	-0.020	-4%	0.500	0.480	-0.020	-4%
CL	0	0.500	0.480	-0.020	-4%	0.500	0.455	-0.045	-9%	0.500	0.495	-0.005	-1%	0.500	0.500	0.000	0%
East Side	5	0.500	0.500	0.000	0%	0.500	0.495	-0.005	-1%	0.500	0.465	-0.035	-7%	0.500	0.465	-0.035	-7%
	10	0.500	0.485	-0.015	-3%	0.500	0.480	-0.020	-4%	0.500	0.480	-0.020	-4%	0.500	0.475	-0.025	-5%
	15	0.500		-0.500	-100%	0.500		-0.500	-100%	0.500		-0.500	-100%	0.500		-0.500	-100%
	20	0.438		-0.438	-100%	0.438		-0.438	-100%	0.438		-0.438	-100%	0.438		-0.438	-100%
	25	0.438		-0.438	-100%	0.438		-0.438	-100%	0.438		-0.438	-100%	0.438		-0.438	-100%



Appendix 1 Comparison: Pontoon Deck Bottom (Center Tanks)

	Feet		240				245				250				255		
	Belt	Built	48	Diff	%	Built	50	Diff	%	Built	51	Diff	%	Built	52	Diff	%
West Side	25	0.438		-0.438	-100%	0.438		-0.438	-100%	0.438		-0.438	-100%	0.438		-0.438	-100%
	20	0.438		-0.438	-100%	0.438		-0.438	-100%	0.438		-0.438	-100%	0.438		-0.438	-100%
	15	0.500		-0.500	-100%	0.500		-0.500	-100%	0.500		-0.500	-100%	0.500		-0.500	-100%
	10	0.500	0.505	0.005	1%	0.500	0.500	0.000	0%	0.500	0.505	0.005	1%	0.500	0.520	0.020	4%
	5	0.500	0.510	0.010	2%	0.500	0.495	-0.005	-1%	0.500	0.535	0.035	7%	0.500	0.460	-0.040	-8%
CL	0	0.500	0.520	0.020	4%	0.500	0.500	0.000	0%	0.500	0.490	-0.010	-2%	0.500	0.500	0.000	0%
East Side	5	0.500	0.495	-0.005	-1%	0.500	0.500	0.000	0%	0.500	0.500	0.000	0%	0.500	0.495	-0.005	-1%
	10	0.500	0.495	-0.005	-1%	0.500	0.480	-0.020	-4%	0.500	0.495	-0.005	-1%	0.500	0.490	-0.010	-2%
	15	0.500		-0.500	-100%	0.500		-0.500	-100%	0.500		-0.500	-100%	0.500		-0.500	-100%
	20	0.438		-0.438	-100%	0.438		-0.438	-100%	0.438		-0.438	-100%	0.438		-0.438	-100%
	25	0.438		-0.438	-100%	0.438		-0.438	-100%	0.438		-0.438	-100%	0.438		-0.438	-100%

<South

North>

	Feet		260				265				270				275		
	Belt	Built	53	Diff	%	Built	54	Diff	%	Built	55	Diff	%	Built	56	Diff	%
West Side	25	0.438		-0.438	-100%	0.438		-0.438	-100%	0.438		-0.438	-100%	0.438		-0.438	-100%
	20	0.438		-0.438	-100%	0.438		-0.438	-100%	0.438		-0.438	-100%	0.438		-0.438	-100%
	15	0.500		-0.500	-100%	0.500		-0.500	-100%	0.500		-0.500	-100%	0.500		-0.500	-100%
	10	0.500	0.485	-0.015	-3%	0.500	0.490	-0.010	-2%	0.500	0.535	0.035	7%	0.500	0.485	-0.015	-3%
	5	0.500	0.480	-0.020	-4%	0.500	0.490	-0.010	-2%	0.500	0.515	0.015	3%	0.500	0.520	0.020	4%
CL	0	0.500	0.495	-0.005	-1%	0.500	0.490	-0.010	-2%	0.500	0.520	0.020	4%	0.500	0.460	-0.040	-8%
East Side	5	0.500	0.490	-0.010	-2%	0.500	0.520	0.020	4%	0.500	0.435	-0.065	-13%	0.500	0.455	-0.045	-9%
	10	0.500	0.485	-0.015	-3%	0.500	0.470	-0.030	-6%	0.500	0.475	-0.025	-5%	0.500	0.490	-0.010	-2%
	15	0.500		-0.500	-100%	0.500		-0.500	-100%	0.500		-0.500	-100%	0.500		-0.500	-100%
	20	0.438		-0.438	-100%	0.438		-0.438	-100%	0.438		-0.438	-100%	0.438		-0.438	-100%
	25	0.438		-0.438	-100%	0.438		-0.438	-100%	0.438		-0.438	-100%	0.438		-0.438	-100%



Appendix 1 Comparison: Pontoon Deck Bottom (Center Tanks)

	Feet	280				285				290				295			
	Belt	Built	57	Diff	%	Built	58	Diff	%	Built	59	Diff	%	Built	60	Diff	%
West Side	25	0.438		-0.438	-100%	0.438		-0.438	-100%	0.438		-0.438	-100%	0.438		-0.438	-100%
	20	0.438		-0.438	-100%	0.438		-0.438	-100%	0.438		-0.438	-100%	0.438		-0.438	-100%
	15	0.500		-0.500	-100%	0.500		-0.500	-100%	0.500		-0.500	-100%	0.500		-0.500	-100%
	10	0.500	0.480	-0.020	-4%	0.500	0.495	-0.005	-1%	0.500	0.495	-0.005	-1%	0.500	0.500	0.000	0%
	5	0.500	0.500	0.000	0%	0.500	0.480	-0.020	-4%	0.500	0.480	-0.020	-4%	0.500	0.510	0.010	2%
CL	0	0.500	0.500	0.000	0%	0.500	0.500	0.000	0%	0.500	0.500	0.000	0%	0.500	0.495	-0.005	-1%
East Side	5	0.500	0.485	-0.015	-3%	0.500	0.470	-0.030	-6%	0.500	0.495	-0.005	-1%	0.500	0.495	-0.005	-1%
	10	0.500	0.480	-0.020	-4%	0.500	0.475	-0.025	-5%	0.500	0.475	-0.025	-5%	0.500	0.510	0.010	2%
	15	0.500		-0.500	-100%	0.500		-0.500	-100%	0.500		-0.500	-100%	0.500		-0.500	-100%
	20	0.438		-0.438	-100%	0.438		-0.438	-100%	0.438		-0.438	-100%	0.438		-0.438	-100%
	25	0.438		-0.438	-100%	0.438		-0.438	-100%	0.438		-0.438	-100%	0.438		-0.438	-100%

<South

North>

	Feet	300				305				310				315			
	Belt	Built	61	Diff	%	Built	62	Diff	%	Built	63	Diff	%	Built	64	Diff	%
West Side	25	0.438		-0.438	-100%	0.438		-0.438	-100%	0.438		-0.438	-100%	0.438		-0.438	-100%
	20	0.438		-0.438	-100%	0.438		-0.438	-100%	0.438		-0.438	-100%	0.438		-0.438	-100%
	15	0.500		-0.500	-100%	0.500		-0.500	-100%	0.500		-0.500	-100%	0.500		-0.500	-100%
	10	0.500	0.495	-0.005	-1%	0.500	0.480	-0.020	-4%	0.500	0.495	-0.005	-1%	0.500	0.485	-0.015	-3%
	5	0.500	0.495	-0.005	-1%	0.500	0.500	0.000	0%	0.500	0.485	-0.015	-3%	0.500	0.480	-0.020	-4%
CL	0	0.500	0.505	0.005	1%	0.500	0.485	-0.015	-3%	0.500	0.500	0.000	0%	0.500	0.495	-0.005	-1%
East Side	5	0.500	0.505	0.005	1%	0.500	0.505	0.005	1%	0.500	0.500	0.000	0%	0.500	0.500	0.000	0%
	10	0.500	0.470	-0.030	-6%	0.500	0.485	-0.015	-3%	0.500	0.505	0.005	1%	0.500	0.480	-0.020	-4%
	15	0.500		-0.500	-100%	0.500		-0.500	-100%	0.500		-0.500	-100%	0.500		-0.500	-100%
	20	0.438		-0.438	-100%	0.438		-0.438	-100%	0.438		-0.438	-100%	0.438		-0.438	-100%
	25	0.438		-0.438	-100%	0.438		-0.438	-100%	0.438		-0.438	-100%	0.438		-0.438	-100%



Appendix 1 Comparison: Pontoon Deck Bottom (Center Tanks)

	Feet		320				325				330				335					
	Belt	Built	65	Diff	%		Built	66	Diff	%		Built	67	Diff	%		Built	68	Diff	%
West Side	25	0.438		-0.438	-100%		0.438		-0.438	-100%		0.438		-0.438	-100%		0.438		-0.438	-100%
	20	0.438		-0.438	-100%		0.438		-0.438	-100%		0.438		-0.438	-100%		0.438		-0.438	-100%
	15	0.500		-0.500	-100%		0.500		-0.500	-100%		0.500		-0.500	-100%		0.500		-0.500	-100%
	10	0.500	0.450	-0.050	-10%		0.500	0.500	0.000	0%		0.500	0.475	-0.025	-5%		0.500	0.500	0.000	0%
	5	0.500	0.460	-0.040	-8%		0.500	0.495	-0.005	-1%		0.500	0.500	0.000	0%		0.500	0.500	0.000	0%
CL	0	0.500	0.445	-0.055	-11%		0.500	0.495	-0.005	-1%		0.500	0.495	-0.005	-1%		0.500	0.500	0.000	0%
East Side	5	0.500	0.480	-0.020	-4%		0.500	0.495	-0.005	-1%		0.500	0.510	0.010	2%		0.500	0.495	-0.005	-1%
	10	0.500	0.475	-0.025	-5%		0.500	0.465	-0.035	-7%		0.500	0.480	-0.020	-4%		0.500	0.480	-0.020	-4%
	15	0.500		-0.500	-100%		0.500		-0.500	-100%		0.500		-0.500	-100%		0.500		-0.500	-100%
	20	0.438		-0.438	-100%		0.438		-0.438	-100%		0.438		-0.438	-100%		0.438		-0.438	-100%
	25	0.438		-0.438	-100%		0.438		-0.438	-100%		0.438		-0.438	-100%		0.438		-0.438	-100%

<South

North>

	Feet		340				345				350				355					
	Belt	Built	69	Diff	%		Built	70	Diff	%		Built	71	Diff	%		Built	72	Diff	%
West Side	25	0.438		-0.438	-100%		0.438		-0.438	-100%		0.438		-0.438	-100%		0.438		-0.438	-100%
	20	0.438		-0.438	-100%		0.438		-0.438	-100%		0.438		-0.438	-100%		0.438		-0.438	-100%
	15	0.500		-0.500	-100%		0.500		-0.500	-100%		0.500		-0.500	-100%		0.500		-0.500	-100%
	10	0.500	0.495	-0.005	-1%		0.500	0.495	-0.005	-1%		0.500	0.500	0.000	0%		0.500	0.480	-0.020	-4%
	5	0.500	0.475	-0.025	-5%		0.500	0.500	0.000	0%		0.500	0.485	-0.015	-3%		0.500	0.495	-0.005	-1%
CL	0	0.500	0.500	0.000	0%		0.500	0.485	-0.015	-3%		0.500	0.505	0.005	1%		0.500	0.495	-0.005	-1%
East Side	5	0.500	0.510	0.010	2%		0.500	0.465	-0.035	-7%		0.500	0.505	0.005	1%		0.500	0.485	-0.015	-3%
	10	0.500	0.480	-0.020	-4%		0.500	0.490	-0.010	-2%		0.500	0.495	-0.005	-1%		0.500	0.500	0.000	0%
	15	0.500		-0.500	-100%		0.500		-0.500	-100%		0.500		-0.500	-100%		0.500		-0.500	-100%
	20	0.438		-0.438	-100%		0.438		-0.438	-100%		0.438		-0.438	-100%		0.438		-0.438	-100%
	25	0.438		-0.438	-100%		0.438		-0.438	-100%		0.438		-0.438	-100%		0.438		-0.438	-100%



Appendix 1 Comparison: Pontoon Deck Bottom (Center Tanks)

	Feet	360				365				370				375			
	Belt	Built	73	Diff	%	Built	74	Diff	%	Built	75	Diff	%	Built	76	Diff	%
West Side	25	0.438		-0.438	-100%	0.438		-0.438	-100%	0.438		-0.438	-100%	0.438		-0.438	-100%
	20	0.438		-0.438	-100%	0.438		-0.438	-100%	0.438		-0.438	-100%	0.438		-0.438	-100%
	15	0.500		-0.500	-100%	0.500		-0.500	-100%	0.500		-0.500	-100%	0.500		-0.500	-100%
	10	0.500	0.490	-0.010	-2%	0.500	0.480	-0.020	-4%	0.500	0.480	-0.020	-4%	0.500	0.505	0.005	1%
	5	0.500	0.455	-0.045	-9%	0.500	0.500	0.000	0%	0.500	0.495	-0.005	-1%	0.500	0.500	0.000	0%
CL	0	0.500	0.520	0.020	4%	0.500	0.515	0.015	3%	0.500	0.490	-0.010	-2%	0.500	0.500	0.000	0%
East Side	5	0.500	0.505	0.005	1%	0.500	0.505	0.005	1%	0.500	0.490	-0.010	-2%	0.500	0.510	0.010	2%
	10	0.500	0.480	-0.020	-4%	0.500	0.465	-0.035	-7%	0.500	0.485	-0.015	-3%	0.500	0.490	-0.010	-2%
	15	0.500		-0.500	-100%	0.500		-0.500	-100%	0.500		-0.500	-100%	0.500		-0.500	-100%
	20	0.438		-0.438	-100%	0.438		-0.438	-100%	0.438		-0.438	-100%	0.438		-0.438	-100%
	25	0.438		-0.438	-100%	0.438		-0.438	-100%	0.438		-0.438	-100%	0.438		-0.438	-100%

<South

North>

	Feet	380				385				390				395			
	Belt	Built	77	Diff	%	Built	78	Diff	%	Built	79	Diff	%	Built	80	Diff	%
West Side	25	0.438		-0.438	-100%	0.438		-0.438	-100%	0.438		-0.438	-100%	0.438		-0.438	-100%
	20	0.438		-0.438	-100%	0.438		-0.438	-100%	0.438		-0.438	-100%	0.438		-0.438	-100%
	15	0.500		-0.500	-100%	0.500		-0.500	-100%	0.500		-0.500	-100%	0.500		-0.500	-100%
	10	0.500	0.470	-0.030	-6%	0.500	0.480	-0.020	-4%	0.500	0.475	-0.025	-5%	0.500	0.475	-0.025	-5%
	5	0.500	0.490	-0.010	-2%	0.500	0.505	0.005	1%	0.500	0.485	-0.015	-3%	0.500	0.500	0.000	0%
CL	0	0.500	0.510	0.010	2%	0.500	0.515	0.015	3%	0.500	0.510	0.010	2%	0.500	0.495	-0.005	-1%
East Side	5	0.500	0.505	0.005	1%	0.500	0.490	-0.010	-2%	0.500	0.495	-0.005	-1%	0.500	0.460	-0.040	-8%
	10	0.500	0.470	-0.030	-6%	0.500	0.485	-0.015	-3%	0.500	0.500	0.000	0%	0.500	0.510	0.010	2%
	15	0.500		-0.500	-100%	0.500		-0.500	-100%	0.500		-0.500	-100%	0.500		-0.500	-100%
	20	0.438		-0.438	-100%	0.438		-0.438	-100%	0.438		-0.438	-100%	0.438		-0.438	-100%
	25	0.438		-0.438	-100%	0.438		-0.438	-100%	0.438		-0.438	-100%	0.438		-0.438	-100%



Appendix 1 Comparison: Pontoon Deck Bottom (Center Tanks)

	Feet	400				405				410				415			
	Belt	Built	81	Diff	%	Built	82	Diff	%	Built	83	Diff	%	Built	84	Diff	%
West Side	25	0.438		-0.438	-100%	0.438		-0.438	-100%	0.438		-0.438	-100%	0.438		-0.438	-100%
	20	0.438		-0.438	-100%	0.438		-0.438	-100%	0.438		-0.438	-100%	0.438		-0.438	-100%
	15	0.500		-0.500	-100%	0.500		-0.500	-100%	0.500		-0.500	-100%	0.500		-0.500	-100%
	10	0.500	0.410	-0.090	-18%	0.500	0.460	-0.040	-8%	0.500	0.465	-0.035	-7%	0.500	0.480	-0.020	-4%
	5	0.500	0.475	-0.025	-5%	0.500	0.455	-0.045	-9%	0.500	0.440	-0.060	-12%	0.500	0.460	-0.040	-8%
CL	0	0.500	0.475	-0.025	-5%	0.500	0.480	-0.020	-4%	0.500	0.405	-0.095	-19%	0.500	0.480	-0.020	-4%
East Side	5	0.500	0.435	-0.065	-13%	0.500	0.480	-0.020	-4%	0.500	0.405	-0.095	-19%	0.500	0.410	-0.090	-18%
	10	0.500	0.410	-0.090	-18%	0.500	0.455	-0.045	-9%	0.500	0.490	-0.010	-2%	0.500	0.450	-0.050	-10%
	15	0.500		-0.500	-100%	0.500		-0.500	-100%	0.500		-0.500	-100%	0.500		-0.500	-100%
	20	0.438		-0.438	-100%	0.438		-0.438	-100%	0.438		-0.438	-100%	0.438		-0.438	-100%
	25	0.438		-0.438	-100%	0.438		-0.438	-100%	0.438		-0.438	-100%	0.438		-0.438	-100%

<South

North>

	Feet	420				425				430				435			
	Belt	Built	85	Diff	%	Built	86	Diff	%	Built	87	Diff	%	Built	88	Diff	%
West Side	25	0.438		-0.438	-100%	0.438		-0.438	-100%	0.438		-0.438	-100%	0.438		-0.438	-100%
	20	0.438		-0.438	-100%	0.438		-0.438	-100%	0.438		-0.438	-100%	0.438		-0.438	-100%
	15	0.500		-0.500	-100%	0.500		-0.500	-100%	0.500		-0.500	-100%	0.500		-0.500	-100%
	10	0.500	0.465	-0.035	-7%	0.500	0.475	-0.025	-5%	0.500	0.455	-0.045	-9%	0.500	0.475	-0.025	-5%
	5	0.500	0.440	-0.060	-12%	0.500	0.500	0.000	0%	0.500	0.445	-0.055	-11%	0.500	0.465	-0.035	-7%
CL	0	0.500	0.430	-0.070	-14%	0.500	0.450	-0.050	-10%	0.500	0.440	-0.060	-12%	0.500	0.485	-0.015	-3%
East Side	5	0.500	0.460	-0.040	-8%	0.500	0.510	0.010	2%	0.500	0.460	-0.040	-8%	0.500	0.460	-0.040	-8%
	10	0.500	0.435	-0.065	-13%	0.500	0.445	-0.055	-11%	0.500	0.450	-0.050	-10%	0.500	0.435	-0.065	-13%
	15	0.500		-0.500	-100%	0.500		-0.500	-100%	0.500		-0.500	-100%	0.500		-0.500	-100%
	20	0.438		-0.438	-100%	0.438		-0.438	-100%	0.438		-0.438	-100%	0.438		-0.438	-100%
	25	0.438		-0.438	-100%	0.438		-0.438	-100%	0.438		-0.438	-100%	0.438		-0.438	-100%



Appendix 1 Comparison: Pontoon Deck Bottom (Center Tanks)

	Feet		440				445				450				455					
	Belt	Built	89	Diff	%		Built	90	Diff	%	Built	91	Diff	%	Built	92	Diff	%		
West Side	25	0.438		-0.438	-100%		0.438		-0.438	-100%		0.438		-0.438	-100%		0.438		-0.438	-100%
	20	0.438		-0.438	-100%		0.438		-0.438	-100%		0.438		-0.438	-100%		0.438		-0.438	-100%
	15	0.500		-0.500	-100%		0.500		-0.500	-100%		0.500		-0.500	-100%		0.500		-0.500	-100%
	10	0.500	0.430	-0.070	-14%		0.500	0.460	-0.040	-8%		0.500	0.470	-0.030	-6%		0.500	0.450	-0.050	-10%
	5	0.500	0.470	-0.030	-6%		0.500	0.470	-0.030	-6%		0.500	0.475	-0.025	-5%		0.500	0.485	-0.015	-3%
CL	0	0.500	0.510	0.010	2%		0.500	0.495	-0.005	-1%		0.500	0.515	0.015	3%		0.500	0.490	-0.010	-2%
East Side	5	0.500	0.485	-0.015	-3%		0.500	0.470	-0.030	-6%		0.500	0.475	-0.025	-5%		0.500	0.460	-0.040	-8%
	10	0.500	0.445	-0.055	-11%		0.500	0.485	-0.015	-3%		0.500	0.485	-0.015	-3%		0.500	0.460	-0.040	-8%
	15	0.500		-0.500	-100%		0.500		-0.500	-100%		0.500		-0.500	-100%		0.500		-0.500	-100%
	20	0.438		-0.438	-100%		0.438		-0.438	-100%		0.438		-0.438	-100%		0.438		-0.438	-100%
	25	0.438		-0.438	-100%		0.438		-0.438	-100%		0.438		-0.438	-100%		0.438		-0.438	-100%

<South

North>

	Feet		460				465				470				475					
	Belt	Built	93	Diff	%		Built	94	Diff	%	Built	95	Diff	%	Built	96	Diff	%		
West Side	25	0.438		-0.438	-100%		0.438		-0.438	-100%		0.438		-0.438	-100%		0.438		-0.438	-100%
	20	0.438		-0.438	-100%		0.438		-0.438	-100%		0.438		-0.438	-100%		0.438		-0.438	-100%
	15	0.500		-0.500	-100%		0.500		-0.500	-100%		0.500		-0.500	-100%		0.500		-0.500	-100%
	10	0.500	0.495	-0.005	-1%		0.500	0.475	-0.025	-5%		0.500	0.530	0.030	6%		0.500	0.455	-0.045	-9%
	5	0.500	0.495	-0.005	-1%		0.500	0.475	-0.025	-5%		0.500	0.500	0.000	0%		0.500	0.500	0.000	0%
CL	0	0.500	0.460	-0.040	-8%		0.500	0.475	-0.025	-5%		0.500	0.485	-0.015	-3%		0.500	0.470	-0.030	-6%
East Side	5	0.500	0.450	-0.050	-10%		0.500	0.500	0.000	0%		0.500	0.480	-0.020	-4%		0.500	0.465	-0.035	-7%
	10	0.500	0.465	-0.035	-7%		0.500	0.480	-0.020	-4%		0.500	0.465	-0.035	-7%		0.500	0.460	-0.040	-8%
	15	0.500		-0.500	-100%		0.500		-0.500	-100%		0.500		-0.500	-100%		0.500		-0.500	-100%
	20	0.438		-0.438	-100%		0.438		-0.438	-100%		0.438		-0.438	-100%		0.438		-0.438	-100%
	25	0.438		-0.438	-100%		0.438		-0.438	-100%		0.438		-0.438	-100%		0.438		-0.438	-100%



Appendix 1 Comparison: Pontoon Deck Bottom (Center Tanks)

	Feet		480				485				490				495					
	Belt	Built	97	Diff	%		Built	98	Diff	%		Built	99	Diff	%		Built	100	Diff	%
West Side	25	0.438		-0.438	-100%		0.438		-0.438	-100%		0.438		-0.438	-100%		0.438		-0.438	-100%
	20	0.438		-0.438	-100%		0.438		-0.438	-100%		0.438		-0.438	-100%		0.438		-0.438	-100%
	15	0.500		-0.500	-100%		0.500		-0.500	-100%		0.500		-0.500	-100%		0.500		-0.500	-100%
	10	0.500	0.465	-0.035	-7%		0.500	0.450	-0.050	-10%		0.500	0.495	-0.005	-1%		0.500	0.445	-0.055	-11%
	5	0.500	0.480	-0.020	-4%		0.500	0.490	-0.010	-2%		0.500	0.470	-0.030	-6%		0.500	0.460	-0.040	-8%
CL	0	0.500	0.475	-0.025	-5%		0.500	0.465	-0.035	-7%		0.500	0.455	-0.045	-9%		0.500	0.465	-0.035	-7%
East Side	5	0.500	0.480	-0.020	-4%		0.500	0.485	-0.015	-3%		0.500	0.475	-0.025	-5%		0.500	0.485	-0.015	-3%
	10	0.500	0.505	0.005	1%		0.500	0.475	-0.025	-5%		0.500	0.500	0.000	0%		0.500	0.485	-0.015	-3%
	15	0.500		-0.500	-100%		0.500		-0.500	-100%		0.500		-0.500	-100%		0.500		-0.500	-100%
	20	0.438		-0.438	-100%		0.438		-0.438	-100%		0.438		-0.438	-100%		0.438		-0.438	-100%
	25	0.438		-0.438	-100%		0.438		-0.438	-100%		0.438		-0.438	-100%		0.438		-0.438	-100%

<South

North>

	Feet		500				505				510				515					
	Belt	Built	101	Diff	%		Built	102	Diff	%		Built	103	Diff	%		Built	104	Diff	%
West Side	25	0.438		-0.438	-100%		0.438		-0.438	-100%		0.438		-0.438	-100%		0.438		-0.438	-100%
	20	0.438		-0.438	-100%		0.438		-0.438	-100%		0.438		-0.438	-100%		0.438		-0.438	-100%
	15	0.500		-0.500	-100%		0.500		-0.500	-100%		0.500		-0.500	-100%		0.500		-0.500	-100%
	10	0.500	0.440	-0.060	-12%		0.500	0.455	-0.045	-9%		0.500	0.460	-0.040	-8%		0.500	0.460	-0.040	-8%
	5	0.500	0.495	-0.005	-1%		0.500	0.475	-0.025	-5%		0.500	0.440	-0.060	-12%		0.500	0.460	-0.040	-8%
CL	0	0.500	0.470	-0.030	-6%		0.500	0.485	-0.015	-3%		0.500	0.480	-0.020	-4%		0.500	0.460	-0.040	-8%
East Side	5	0.500	0.475	-0.025	-5%		0.500	0.465	-0.035	-7%		0.500	0.495	-0.005	-1%		0.500	0.485	-0.015	-3%
	10	0.500	0.460	-0.040	-8%		0.500	0.480	-0.020	-4%		0.500	0.475	-0.025	-5%		0.500	0.460	-0.040	-8%
	15	0.500		-0.500	-100%		0.500		-0.500	-100%		0.500		-0.500	-100%		0.500		-0.500	-100%
	20	0.438		-0.438	-100%		0.438		-0.438	-100%		0.438		-0.438	-100%		0.438		-0.438	-100%
	25	0.438		-0.438	-100%		0.438		-0.438	-100%		0.438		-0.438	-100%		0.438		-0.438	-100%



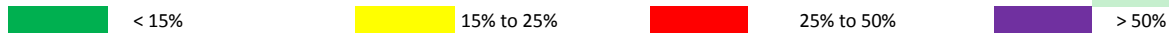
Appendix 1 Comparison: Pontoon Deck Bottom (Center Tanks)

	Feet		520				525				530				535					
	Belt	Built	105	Diff	%		Built	106	Diff	%		Built	107	Diff	%		Built	108	Diff	%
West Side	25	0.438		-0.438	-100%		0.438		-0.438	-100%		0.438		-0.438	-100%		0.438		-0.438	-100%
	20	0.438		-0.438	-100%		0.438		-0.438	-100%		0.438		-0.438	-100%		0.438		-0.438	-100%
	15	0.500		-0.500	-100%		0.500		-0.500	-100%		0.500		-0.500	-100%		0.500		-0.500	-100%
	10	0.500	0.455	-0.045	-9%		0.500	0.455	-0.045	-9%		0.500	0.460	-0.040	-8%		0.500	0.455	-0.045	-9%
	5	0.500	0.450	-0.050	-10%		0.500	0.460	-0.040	-8%		0.500	0.465	-0.035	-7%		0.500	0.445	-0.055	-11%
CL	0	0.500	0.450	-0.050	-10%		0.500	0.455	-0.045	-9%		0.500	0.465	-0.035	-7%		0.500	0.455	-0.045	-9%
East Side	5	0.500	0.420	-0.080	-16%		0.500	0.425	-0.075	-15%		0.500	0.480	-0.020	-4%		0.500	0.435	-0.065	-13%
	10	0.500	0.475	-0.025	-5%		0.500	0.410	-0.090	-18%		0.500	0.430	-0.070	-14%		0.500	0.460	-0.040	-8%
	15	0.500		-0.500	-100%		0.500		-0.500	-100%		0.500		-0.500	-100%		0.500		-0.500	-100%
	20	0.438		-0.438	-100%		0.438		-0.438	-100%		0.438		-0.438	-100%		0.438		-0.438	-100%
	25	0.438		-0.438	-100%		0.438		-0.438	-100%		0.438		-0.438	-100%		0.438		-0.438	-100%

<South

North>

	Feet		540				545				550				555					
	Belt	Built	108	Diff	%		Built	109	Diff	%		Built	110	Diff	%		Built	111	Diff	%
West Side	25	0.438		-0.438	-100%		0.438		-0.438	-100%		0.438		-0.438	-100%		0.438		-0.438	-100%
	20	0.438		-0.438	-100%		0.438		-0.438	-100%		0.438		-0.438	-100%		0.438		-0.438	-100%
	15	0.500		-0.500	-100%		0.500		-0.500	-100%		0.500		-0.500	-100%		0.500		-0.500	-100%
	10	0.500	0.440	-0.060	-12%		0.500	0.475	-0.025	-5%		0.500	0.465	-0.035	-7%		0.500	0.445	-0.055	-11%
	5	0.500	0.425	-0.075	-15%		0.500	0.435	-0.065	-13%		0.500	0.495	-0.005	-1%		0.500	0.415	-0.085	-17%
CL	0	0.500	0.455	-0.045	-9%		0.500	0.485	-0.015	-3%		0.500	0.445	-0.055	-11%		0.500	0.520	0.020	4%
East Side	5	0.500	0.475	-0.025	-5%		0.500	0.480	-0.020	-4%		0.500	0.445	-0.055	-11%		0.500	0.470	-0.030	-6%
	10	0.500	0.455	-0.045	-9%		0.500	0.505	0.005	1%		0.500	0.480	-0.020	-4%		0.500	0.450	-0.050	-10%
	15	0.500		-0.500	-100%		0.500		-0.500	-100%		0.500		-0.500	-100%		0.500		-0.500	-100%
	20	0.438		-0.438	-100%		0.438		-0.438	-100%		0.438		-0.438	-100%		0.438		-0.438	-100%
	25	0.438		-0.438	-100%		0.438		-0.438	-100%		0.438		-0.438	-100%		0.438		-0.438	-100%



Appendix 1 Comparison: Pontoon Deck Bottom (Center Tanks)

	Feet	560				565				570				575			
	Belt	Built	112	Diff	%	Built	113	Diff	%	Built	114	Diff	%	Built	115	Diff	%
West Side	25	0.438		-0.438	-100%	0.438		-0.438	-100%	0.438		-0.438	-100%	0.438		-0.438	-100%
	20	0.438		-0.438	-100%	0.438		-0.438	-100%	0.438		-0.438	-100%	0.438		-0.438	-100%
	15	0.500		-0.500	-100%	0.500		-0.500	-100%	0.500		-0.500	-100%	0.500		-0.500	-100%
	10	0.500	0.470	-0.030	-6%	0.500	0.460	-0.040	-8%	0.500	0.460	-0.040	-8%	0.500	0.455	-0.045	-9%
	5	0.500	0.435	-0.065	-13%	0.500	0.500	0.000	0%	0.500	0.460	-0.040	-8%	0.500	0.430	-0.070	-14%
CL	0	0.500	0.485	-0.015	-3%	0.500	0.415	-0.085	-17%	0.500	0.455	-0.045	-9%	0.500	0.475	-0.025	-5%
East Side	5	0.500	0.490	-0.010	-2%	0.500	0.500	0.000	0%	0.500	0.480	-0.020	-4%	0.500	0.465	-0.035	-7%
	10	0.500	0.510	0.010	2%	0.500	0.515	0.015	3%	0.500	0.465	-0.035	-7%	0.500	0.450	-0.050	-10%
	15	0.500		-0.500	-100%	0.500		-0.500	-100%	0.500		-0.500	-100%	0.500		-0.500	-100%
	20	0.438		-0.438	-100%	0.438		-0.438	-100%	0.438		-0.438	-100%	0.438		-0.438	-100%
	25	0.438		-0.438	-100%	0.438		-0.438	-100%	0.438		-0.438	-100%	0.438		-0.438	-100%

<South

North>

	Feet	580				585				590				595			
	Belt	Built	116	Diff	%	Built	117	Diff	%	Built	118	Diff	%	Built	119	Diff	%
West Side	25	0.438		-0.438	-100%	0.438		-0.438	-100%	0.438		-0.438	-100%	0.438		-0.438	-100%
	20	0.438		-0.438	-100%	0.438		-0.438	-100%	0.438		-0.438	-100%	0.438		-0.438	-100%
	15	0.500		-0.500	-100%	0.500		-0.500	-100%	0.500		-0.500	-100%	0.500		-0.500	-100%
	10	0.500	0.445	-0.055	-11%	0.500	0.435	-0.065	-13%	0.500	0.475	-0.025	-5%	0.500	0.435	-0.065	-13%
	5	0.500	0.440	-0.060	-12%	0.500	0.465	-0.035	-7%	0.500	0.430	-0.070	-14%	0.500	0.455	-0.045	-9%
CL	0	0.500	0.460	-0.040	-8%	0.500	0.445	-0.055	-11%	0.500	0.470	-0.030	-6%	0.500	0.460	-0.040	-8%
East Side	5	0.500	0.475	-0.025	-5%	0.500	0.450	-0.050	-10%	0.500	0.440	-0.060	-12%	0.500	0.440	-0.060	-12%
	10	0.500	0.465	-0.035	-7%	0.500	0.465	-0.035	-7%	0.500	0.445	-0.055	-11%	0.500	0.445	-0.055	-11%
	15	0.500		-0.500	-100%	0.500		-0.500	-100%	0.500		-0.500	-100%	0.500		-0.500	-100%
	20	0.438		-0.438	-100%	0.438		-0.438	-100%	0.438		-0.438	-100%	0.438		-0.438	-100%
	25	0.438		-0.438	-100%	0.438		-0.438	-100%	0.438		-0.438	-100%	0.438		-0.438	-100%

< 15%
 15% to 25%
 25% to 50%
 > 50%

Appendix 1 Comparison: Pontoon Deck Bottom (Center Tanks)

	Feet	600				605				610				615			
	Belt	Built	120	Diff	%	Built	121	Diff	%	Built	123	Diff	%	Built	124	Diff	%
West Side	25	0.438		-0.438	-100%	0.438		-0.438	-100%	0.438		-0.438	-100%	0.438		-0.438	-100%
	20	0.438		-0.438	-100%	0.438		-0.438	-100%	0.438		-0.438	-100%	0.438		-0.438	-100%
	15	0.500		-0.500	-100%	0.500		-0.500	-100%	0.500		-0.500	-100%	0.500		-0.500	-100%
	10	0.500	0.485	-0.015	-3%	0.500	0.485	-0.015	-3%	0.500	0.460	-0.040	-8%	0.500	0.485	-0.015	-3%
	5	0.500	0.485	-0.015	-3%	0.500	0.485	-0.015	-3%	0.500	0.485	-0.015	-3%	0.500	0.460	-0.040	-8%
CL	0	0.500	0.485	-0.015	-3%	0.500	0.485	-0.015	-3%	0.500	0.480	-0.020	-4%	0.500	0.485	-0.015	-3%
East Side	5	0.500	0.475	-0.025	-5%	0.500	0.480	-0.020	-4%	0.500	0.500	0.000	0%	0.500	0.520	0.020	4%
	10	0.500	0.465	-0.035	-7%	0.500	0.460	-0.040	-8%	0.500	0.495	-0.005	-1%	0.500	0.500	0.000	0%
	15	0.500		-0.500	-100%	0.500		-0.500	-100%	0.500		-0.500	-100%	0.500		-0.500	-100%
	20	0.438		-0.438	-100%	0.438		-0.438	-100%	0.438		-0.438	-100%	0.438		-0.438	-100%
	25	0.438		-0.438	-100%	0.438		-0.438	-100%	0.438		-0.438	-100%	0.438		-0.438	-100%

<South

North>

	Feet	620				625				630				635			
	Belt	Built	125	Diff	%	Built	126	Diff	%	Built	127	Diff	%	Built	128	Diff	%
West Side	25	0.438		-0.438	-100%	0.438		-0.438	-100%	0.438		-0.438	-100%	0.438		-0.438	-100%
	20	0.438		-0.438	-100%	0.438		-0.438	-100%	0.438		-0.438	-100%	0.438		-0.438	-100%
	15	0.500		-0.500	-100%	0.500		-0.500	-100%	0.500		-0.500	-100%	0.500		-0.500	-100%
	10	0.500	0.460	-0.040	-8%	0.500	0.485	-0.015	-3%	0.500	0.475	-0.025	-5%	0.500	0.470	-0.030	-6%
	5	0.500	0.475	-0.025	-5%	0.500	0.470	-0.030	-6%	0.500	0.475	-0.025	-5%	0.500	0.460	-0.040	-8%
CL	0	0.500	0.465	-0.035	-7%	0.500	0.420	-0.080	-16%	0.500	0.490	-0.010	-2%	0.500	0.485	-0.015	-3%
East Side	5	0.500	0.495	-0.005	-1%	0.500	0.500	0.000	0%	0.500	0.490	-0.010	-2%	0.500	0.500	0.000	0%
	10	0.500	0.495	-0.005	-1%	0.500	0.505	0.005	1%	0.500	0.495	-0.005	-1%	0.500	0.490	-0.010	-2%
	15	0.500		-0.500	-100%	0.500		-0.500	-100%	0.500		-0.500	-100%	0.500		-0.500	-100%
	20	0.438		-0.438	-100%	0.438		-0.438	-100%	0.438		-0.438	-100%	0.438		-0.438	-100%
	25	0.438		-0.438	-100%	0.438		-0.438	-100%	0.438		-0.438	-100%	0.438		-0.438	-100%

< 15%
 15% to 25%
 25% to 50%
 > 50%

Appendix 1 Comparison: Pontoon Deck Bottom (Center Tanks)

	Feet	640				645				650				655			
	Belt	Built	129	Diff	%	Built	130	Diff	%	Built	131	Diff	%	Built	132	Diff	%
West Side	25	0.438		-0.438	-100%	0.438		-0.438	-100%	0.438		-0.438	-100%	0.438		-0.438	-100%
	20	0.438		-0.438	-100%	0.438		-0.438	-100%	0.438		-0.438	-100%	0.438		-0.438	-100%
	15	0.500		-0.500	-100%	0.500		-0.500	-100%	0.500		-0.500	-100%	0.500		-0.500	-100%
	10	0.500	0.490	-0.010	-2%	0.500	0.490	-0.010	-2%	0.500	0.470	-0.030	-6%	0.500	0.500	0.000	0%
	5	0.500	0.485	-0.015	-3%	0.500	0.495	-0.005	-1%	0.500	0.485	-0.015	-3%	0.500	0.495	-0.005	-1%
CL	0	0.500	0.490	-0.010	-2%	0.500	0.495	-0.005	-1%	0.500	0.490	-0.010	-2%	0.500	0.480	-0.020	-4%
East Side	5	0.500	0.500	0.000	0%	0.500	0.465	-0.035	-7%	0.500	0.480	-0.020	-4%	0.500	0.490	-0.010	-2%
	10	0.500	0.500	0.000	0%	0.500	0.500	0.000	0%	0.500	0.490	-0.010	-2%	0.500	0.500	0.000	0%
	15	0.500		-0.500	-100%	0.500		-0.500	-100%	0.500		-0.500	-100%	0.500		-0.500	-100%
	20	0.438		-0.438	-100%	0.438		-0.438	-100%	0.438		-0.438	-100%	0.438		-0.438	-100%
	25	0.438		-0.438	-100%	0.438		-0.438	-100%	0.438		-0.438	-100%	0.438		-0.438	-100%

<South

North>

	Feet	660				665				670				675			
	Belt	Built	133	Diff	%	Built	134	Diff	%	Built	135	Diff	%	Built	136	Diff	%
West Side	25	0.438		-0.438	-100%	0.438		-0.438	-100%	0.438		-0.438	-100%	0.438		-0.438	-100%
	20	0.438		-0.438	-100%	0.438		-0.438	-100%	0.438		-0.438	-100%	0.438		-0.438	-100%
	15	0.500		-0.500	-100%	0.500		-0.500	-100%	0.500		-0.500	-100%	0.500		-0.500	-100%
	10	0.500	0.495	-0.005	-1%	0.500	0.495	-0.005	-1%	0.500	0.485	-0.015	-3%	0.500	0.465	-0.035	-7%
	5	0.500	0.520	0.020	4%	0.500	0.495	-0.005	-1%	0.500	0.505	0.005	1%	0.500	0.480	-0.020	-4%
CL	0	0.500	0.505	0.005	1%	0.500	0.460	-0.040	-8%	0.500	0.460	-0.040	-8%	0.500	0.505	0.005	1%
East Side	5	0.500	0.495	-0.005	-1%	0.500	0.485	-0.015	-3%	0.500	0.475	-0.025	-5%	0.500	0.465	-0.035	-7%
	10	0.500	0.465	-0.035	-7%	0.500	0.485	-0.015	-3%	0.500	0.450	-0.050	-10%	0.500	0.485	-0.015	-3%
	15	0.500		-0.500	-100%	0.500		-0.500	-100%	0.500		-0.500	-100%	0.500		-0.500	-100%
	20	0.438		-0.438	-100%	0.438		-0.438	-100%	0.438		-0.438	-100%	0.438		-0.438	-100%
	25	0.438		-0.438	-100%	0.438		-0.438	-100%	0.438		-0.438	-100%	0.438		-0.438	-100%



Appendix 1 Comparison: Pontoon Deck Bottom (Center Tanks)

	Feet		680				685				690				695					
	Belt	Built	137	Diff	%		Built	138	Diff	%	Built	139	Diff	%	Built	140	Diff	%		
West Side	25	0.438		-0.438	-100%		0.438		-0.438	-100%		0.438		-0.438	-100%		0.438		-0.438	-100%
	20	0.438		-0.438	-100%		0.438		-0.438	-100%		0.438		-0.438	-100%		0.438		-0.438	-100%
	15	0.500		-0.500	-100%		0.500		-0.500	-100%		0.500		-0.500	-100%		0.500		-0.500	-100%
	10	0.500	0.460	-0.040	-8%		0.500	0.460	-0.040	-8%		0.500	0.475	-0.025	-5%		0.500	0.465	-0.035	-7%
	5	0.500	0.460	-0.040	-8%		0.500	0.475	-0.025	-5%		0.500	0.465	-0.035	-7%		0.500	0.485	-0.015	-3%
CL	0	0.500	0.505	0.005	1%		0.500	0.490	-0.010	-2%		0.500	0.495	-0.005	-1%		0.500	0.490	-0.010	-2%
East Side	5	0.500	0.460	-0.040	-8%		0.500	0.475	-0.025	-5%		0.500	0.490	-0.010	-2%		0.500	0.505	0.005	1%
	10	0.500	0.465	-0.035	-7%		0.500	0.475	-0.025	-5%		0.500	0.480	-0.020	-4%		0.500	0.470	-0.030	-6%
	15	0.500		-0.500	-100%		0.500		-0.500	-100%		0.500		-0.500	-100%		0.500		-0.500	-100%
	20	0.438		-0.438	-100%		0.438		-0.438	-100%		0.438		-0.438	-100%		0.438		-0.438	-100%
	25	0.438		-0.438	-100%		0.438		-0.438	-100%		0.438		-0.438	-100%		0.438		-0.438	-100%

<South

North>

	Feet		700				705				710				715					
	Belt	Built	141	Diff	%		Built	142	Diff	%	Built	143	Diff	%	Built	144	Diff	%		
West Side	25	0.438		-0.438	-100%		0.438		-0.438	-100%		0.438		-0.438	-100%		0.438		-0.438	-100%
	20	0.438		-0.438	-100%		0.438		-0.438	-100%		0.438		-0.438	-100%		0.438		-0.438	-100%
	15	0.500		-0.500	-100%		0.500		-0.500	-100%		0.500		-0.500	-100%		0.500		-0.500	-100%
	10	0.500	0.475	-0.025	-5%		0.500	0.490	-0.010	-2%		0.500	0.490	-0.010	-2%		0.500	0.465	-0.035	-7%
	5	0.500	0.500	0.000	0%		0.500	0.495	-0.005	-1%		0.500	0.485	-0.015	-3%		0.500	0.460	-0.040	-8%
CL	0	0.500	0.490	-0.010	-2%		0.500	0.475	-0.025	-5%		0.500	0.490	-0.010	-2%		0.500	0.455	-0.045	-9%
East Side	5	0.500	0.505	0.005	1%		0.500	0.490	-0.010	-2%		0.500	0.435	-0.065	-13%		0.500	0.485	-0.015	-3%
	10	0.500	0.505	0.005	1%		0.500	0.465	-0.035	-7%		0.500	0.480	-0.020	-4%		0.500	0.470	-0.030	-6%
	15	0.500		-0.500	-100%		0.500		-0.500	-100%		0.500		-0.500	-100%		0.500		-0.500	-100%
	20	0.438		-0.438	-100%		0.438		-0.438	-100%		0.438		-0.438	-100%		0.438		-0.438	-100%
	25	0.438		-0.438	-100%		0.438		-0.438	-100%		0.438		-0.438	-100%		0.438		-0.438	-100%

< 15%
 15% to 25%
 25% to 50%
 > 50%

Appendix 1 Comparison: Pontoon Deck Bottom (Center Tanks)

	Feet		720				725				730				735					
	Belt	Built	145	Diff	%		Built	146	Diff	%		Built	147	Diff	%		Built	148	Diff	%
West Side	25	0.438		-0.438	-100%		0.438		-0.438	-100%		0.438		-0.438	-100%		0.438		-0.438	-100%
	20	0.438		-0.438	-100%		0.438		-0.438	-100%		0.438		-0.438	-100%		0.438		-0.438	-100%
	15	0.500		-0.500	-100%		0.500		-0.500	-100%		0.500		-0.500	-100%		0.500		-0.500	-100%
	10	0.500	0.480	-0.020	-4%		0.500	0.435	-0.065	-13%		0.500	0.465	-0.035	-7%		0.500	0.455	-0.045	-9%
	5	0.500	0.480	-0.020	-4%		0.500	0.475	-0.025	-5%		0.500	0.480	-0.020	-4%		0.500	0.280	-0.220	-44%
CL	0	0.500	0.475	-0.025	-5%		0.500	0.495	-0.005	-1%		0.500	0.485	-0.015	-3%		0.500	0.450	-0.050	-10%
East Side	5	0.500	0.475	-0.025	-5%		0.500	0.485	-0.015	-3%		0.500	0.470	-0.030	-6%		0.500	0.450	-0.050	-10%
	10	0.500	0.485	-0.015	-3%		0.500	0.490	-0.010	-2%		0.500	0.485	-0.015	-3%		0.500	0.495	-0.005	-1%
	15	0.500		-0.500	-100%		0.500		-0.500	-100%		0.500		-0.500	-100%		0.500		-0.500	-100%
	20	0.438		-0.438	-100%		0.438		-0.438	-100%		0.438		-0.438	-100%		0.438		-0.438	-100%
	25	0.438		-0.438	-100%		0.438		-0.438	-100%		0.438		-0.438	-100%		0.438		-0.438	-100%

<South

North>

	Feet		740				745				750				755					
	Belt	Built	149	Diff	%		Built	150	Diff	%		Built	151	Diff	%		Built	152	Diff	%
West Side	25	0.438		-0.438	-100%		0.438		-0.438	-100%		0.438		-0.438	-100%		0.438		-0.438	-100%
	20	0.438		-0.438	-100%		0.438		-0.438	-100%		0.438		-0.438	-100%		0.438		-0.438	-100%
	15	0.500		-0.500	-100%		0.500		-0.500	-100%		0.500		-0.500	-100%		0.500		-0.500	-100%
	10	0.500	0.460	-0.040	-8%		0.500	0.285	-0.215	-43%		0.500	0.480	-0.020	-4%		0.500	0.480	-0.020	-4%
	5	0.500	0.235	-0.265	-53%		0.500	0.495	-0.005	-1%		0.500	0.470	-0.030	-6%		0.500	0.480	-0.020	-4%
CL	0	0.500	0.250	-0.250	-50%		0.500	0.490	-0.010	-2%		0.500	0.500	0.000	0%		0.500	0.410	-0.090	-18%
East Side	5	0.500	0.500	0.000	0%		0.500	0.490	-0.010	-2%		0.500	0.485	-0.015	-3%		0.500	0.450	-0.050	-10%
	10	0.500	0.495	-0.005	-1%		0.500	0.495	-0.005	-1%		0.500	0.475	-0.025	-5%		0.500	0.480	-0.020	-4%
	15	0.500		-0.500	-100%		0.500		-0.500	-100%		0.500		-0.500	-100%		0.500		-0.500	-100%
	20	0.438		-0.438	-100%		0.438		-0.438	-100%		0.438		-0.438	-100%		0.438		-0.438	-100%
	25	0.438		-0.438	-100%		0.438		-0.438	-100%		0.438		-0.438	-100%		0.438		-0.438	-100%

< 15%
 15% to 25%
 25% to 50%
 > 50%

Appendix 1 Comparison: Pontoon Deck Bottom (Center Tanks)

	Feet	760				765				770				775			
	Belt	Built	153	Diff	%	Built	154	Diff	%	Built	155	Diff	%	Built	156	Diff	%
West Side	25	0.438		-0.438	-100%	0.438		-0.438	-100%	0.438		-0.438	-100%	0.438		-0.438	-100%
	20	0.438		-0.438	-100%	0.438		-0.438	-100%	0.438		-0.438	-100%	0.438		-0.438	-100%
	15	0.500		-0.500	-100%	0.500		-0.500	-100%	0.500		-0.500	-100%	0.500		-0.500	-100%
	10	0.500	0.470	-0.030	-6%	0.500	0.480	-0.020	-4%	0.500	0.485	-0.015	-3%	0.500	0.500	0.000	0%
	5	0.500	0.500	0.000	0%	0.500	0.500	0.000	0%	0.500	0.500	0.000	0%	0.500	0.485	-0.015	-3%
CL	0	0.500	0.510	0.010	2%	0.500	0.480	-0.020	-4%	0.500	0.500	0.000	0%	0.500	0.485	-0.015	-3%
East Side	5	0.500	0.500	0.000	0%	0.500	0.480	-0.020	-4%	0.500	0.490	-0.010	-2%	0.500	0.480	-0.020	-4%
	10	0.500	0.480	-0.020	-4%	0.500	0.510	0.010	2%	0.500	0.500	0.000	0%	0.500	0.470	-0.030	-6%
	15	0.500		-0.500	-100%	0.500		-0.500	-100%	0.500		-0.500	-100%	0.500		-0.500	-100%
	20	0.438		-0.438	-100%	0.438		-0.438	-100%	0.438		-0.438	-100%	0.438		-0.438	-100%
	25	0.438		-0.438	-100%	0.438		-0.438	-100%	0.438		-0.438	-100%	0.438		-0.438	-100%

<South

North>

	Feet	780				785				790				795			
	Belt	Built	157	Diff	%	Built	158	Diff	%	Built	159	Diff	%	Built	160	Diff	%
West Side	25	0.438		-0.438	-100%	0.438		-0.438	-100%	0.438		-0.438	-100%	0.438		-0.438	-100%
	20	0.438		-0.438	-100%	0.438		-0.438	-100%	0.438		-0.438	-100%	0.438		-0.438	-100%
	15	0.500		-0.500	-100%	0.500		-0.500	-100%	0.500		-0.500	-100%	0.500		-0.500	-100%
	10	0.500	0.490	-0.010	-2%	0.500	0.480	-0.020	-4%	0.500	0.495	-0.005	-1%	0.500	0.490	-0.010	-2%
	5	0.500	0.500	0.000	0%	0.500	0.505	0.005	1%	0.500	0.495	-0.005	-1%	0.500	0.485	-0.015	-3%
CL	0	0.500	0.515	0.015	3%	0.500	0.495	-0.005	-1%	0.500	0.505	0.005	1%	0.500	0.500	0.000	0%
East Side	5	0.500	0.490	-0.010	-2%	0.500	0.500	0.000	0%	0.500	0.505	0.005	1%	0.500	0.505	0.005	1%
	10	0.500	0.500	0.000	0%	0.500	0.505	0.005	1%	0.500	0.495	-0.005	-1%	0.500	0.435	-0.065	-13%
	15	0.500		-0.500	-100%	0.500		-0.500	-100%	0.500		-0.500	-100%	0.500		-0.500	-100%
	20	0.438		-0.438	-100%	0.438		-0.438	-100%	0.438		-0.438	-100%	0.438		-0.438	-100%
	25	0.438		-0.438	-100%	0.438		-0.438	-100%	0.438		-0.438	-100%	0.438		-0.438	-100%



	Feet		800		
	Belt	Built	161	Diff	%
West Side	25	0.438		-0.438	-100%
	20	0.438		-0.438	-100%
	15	0.500		-0.500	-100%
	10	0.500	0.460	-0.040	-8%
	5	0.500	0.500	0.000	0%
CL	0	0.500	0.480	-0.020	-4%
East Side	5	0.500	0.485	-0.015	-3%
	10	0.500	0.490	-0.010	-2%
	15	0.500		-0.500	-100%
	20	0.438		-0.438	-100%
	25	0.438		-0.438	-100%

<South



< 15%



15% to 25%



25% to 50%



> 50%

North>

Appendix 1 Color Coded: Pontoon Bottom (Center Tanks)

Updated UTs taken on the floor of center tanks July 2016
 (Same data as preceding table, but with % difference from nominal thickness)

Bow	Feet	0	5	10	15	20	25	30	35	40	45	50		
West	Belt	1	2	3	4	5	6	7	8	9	10	11		
	10	0.480	0.460	0.490	0.495	0.490	0.465	0.480	0.485	0.445	0.480	0.465		
	5	0.495	0.495	0.485	0.495	0.440	0.420	0.470	0.460	0.460	0.470	0.235		
East	0	0.485	0.480	0.480	0.495	0.450	0.490	0.480	0.475	0.490	0.495	0.495		
	5	0.485	0.490	0.495	0.495	0.445	0.475	0.465	0.485	0.460	0.500	0.480		
	10	0.500	0.490	0.495	0.480	0.495	0.475	0.500	0.500	0.495	0.500	0.480		
Bow	Feet	0	5	10	15	20	25	30	35	40	45	50		
	Belt	1	2	3	4	5	6	7	8	9	10	11		
< South				< 15%					15% to 25%				25% to 50%	

Appendix 1 Color Coded: Pontoon Bottom (Center Tanks)

Bow	Feet	55	60	65	70	75	80	85	90	95	100	105
West	Belt	12	13	14	15	16	17	18	19	20	21	22
	10	0.430	0.465	0.480	0.410	0.480	0.445	0.465	0.455	0.465	0.470	0.470
	5	0.485	0.385	0.485	0.460	0.495	0.420	0.460	0.444	0.485	0.480	0.495
	0	0.475	0.490	0.475	0.480	0.440	0.485	0.475	0.495	0.485	0.505	0.495
East	5	0.480	0.490	0.380	0.500	0.440	0.490	0.480	0.470	0.440	0.450	0.425
	10	0.235	0.285	0.295	0.480	0.460	0.265	0.495	0.475	0.445	0.445	0.465
	Feet	55	60	65	70	75	80	85	90	95	100	105
Bow	Belt	12	13	14	15	16	17	18	19	20	21	22

< South > 50% < 15% 15% to 25%

Appendix 1 Color Coded: Pontoon Bottom (Center Tanks)

Bow	Feet	110	115	120	125	130	135	140	145	150	155	160
West	Belt	23	24	25	26	27	28	29	30	31	32	33
	10	0.485	0.470	0.480	0.480	0.495	0.455	0.485	0.450	0.470	0.480	0.495
	5	0.460	0.460	0.500	0.480	0.445	0.470	0.450	0.465	0.470	0.435	0.405
	0	0.455	0.450	0.440	0.495	0.485	0.495	0.485	0.485	0.435	0.440	0.506
East	5	0.470	0.450	0.445	0.450	0.495	0.480	0.455	0.475	0.485	0.475	0.465
	10	0.470	0.500	0.490	0.460	0.485	0.480	0.500	0.480	0.465	0.475	0.265
	Feet	110	115	120	125	130	135	140	145	150	155	160
Bow	Belt	23	24	25	26	27	28	29	30	31	32	33
< South			25% to 50%					> 50%				

Appendix 1 Color Coded: Pontoon Bottom (Center Tanks)

Bow	Feet	165	170	175	180	185	190	195	200	205	210	215	220
West	Belt	34	35	36	37	38	39	40	41	42	43	44	45
	10	0.500	0.475	0.500	0.495	0.470	0.475	0.415	0.485	0.450	0.460	0.700	0.480
	5	0.425	0.485	0.480	0.485	0.495	0.455	0.485	0.465	0.475	0.460	0.445	0.475
	0	0.500	0.490	0.495	0.500	0.505	0.470	0.495	0.500	0.515	0.515	0.510	0.480
East	5	0.475	0.480	0.450	0.480	0.485	0.485	0.495	0.480	0.480	0.495	0.490	0.500
	10	0.485	0.490	0.480	0.440	0.485	0.480	0.445	0.485	0.470	0.485	0.445	0.485
	Feet	165	170	175	180	185	190	195	200	205	210	215	220
Bow	Belt	34	35	36	37	38	39	40	41	42	43	44	45
< South		< 15%				15% to 25%				25% to 50%		> 50%	

Appendix 1 Color Coded: Pontoon Bottom (Center Tanks)

Bow	Feet	225	230	235	240	245	250	255	260	265	270	275
West	Belt	46	47	48	49	50	51	52	53	54	55	56
	10	0.460	0.460	0.465	0.505	0.500	0.505	0.520	0.485	0.490	0.535	0.485
	5	0.465	0.480	0.480	0.510	0.495	0.535	0.460	0.480	0.490	0.515	0.520
	0	0.455	0.495	0.500	0.520	0.500	0.490	0.500	0.495	0.490	0.520	0.460
East	5	0.495	0.465	0.465	0.495	0.500	0.500	0.495	0.490	0.520	0.435	0.455
	10	0.480	0.480	0.475	0.495	0.480	0.495	0.490	0.485	0.470	0.475	0.490
	Feet	225	230	235	240	245	250	255	260	265	270	275
Bow	Belt	46	47	48	49	50	51	52	53	54	55	56

< South

< 15%15% to 25%25% to 50%

Appendix 1 Color Coded: Pontoon Bottom (Center Tanks)

Bow	Feet	280	285	290	295	300	305	310	315	320	325	330
West	Belt	57	58	59	60	61	62	63	64	65	66	67
	10	0.480	0.495	0.495	0.500	0.495	0.480	0.495	0.485	0.450	0.500	0.475
	5	0.500	0.480	0.480	0.510	0.495	0.500	0.485	0.480	0.460	0.495	0.500
	0	0.500	0.500	0.500	0.495	0.505	0.485	0.500	0.495	0.445	0.495	0.495
East	5	0.485	0.470	0.495	0.495	0.505	0.505	0.500	0.500	0.480	0.495	0.510
	10	0.480	0.475	0.475	0.510	0.470	0.485	0.505	0.480	0.475	0.465	0.480
	Feet	280	285	290	295	300	305	310	315	320	325	330
Bow	Belt	57	58	59	60	61	62	63	64	65	66	67

< South ; > 50% < 15%

Appendix 1 Color Coded: Pontoon Bottom (Center Tanks)

Bow	Feet	335	340	345	350	355	360	365	370	375	380	385
West	Belt	68	69	70	71	72	73	74	75	76	77	78
	10	0.500	0.495	0.495	0.500	0.480	0.490	0.480	0.480	0.505	0.470	0.480
	5	0.500	0.475	0.500	0.485	0.495	0.455	0.500	0.495	0.500	0.490	0.505
	0	0.500	0.500	0.485	0.505	0.495	0.520	0.515	0.490	0.500	0.510	0.515
East	5	0.495	0.510	0.465	0.505	0.485	0.505	0.505	0.490	0.510	0.505	0.490
	10	0.480	0.480	0.490	0.495	0.500	0.480	0.465	0.485	0.490	0.470	0.485
	Feet	335	340	345	350	355	360	365	370	375	380	385
Bow	Belt	68	69	70	71	72	73	74	75	76	77	78
< South			15% to 25%			25% to 50%			> 50%			

Appendix 1 Color Coded: Pontoon Bottom (Center Tanks)

Bow	Feet	390	395	400	405	410	415	420	425	430	435	440
West	Belt	79	80	81	82	83	84	85	86	87	88	89
	10	0.475	0.475	0.410	0.460	0.465	0.480	0.465	0.475	0.455	0.475	0.430
	5	0.485	0.500	0.475	0.455	0.440	0.460	0.440	0.500	0.445	0.465	0.470
East	0	0.510	0.495	0.475	0.480	0.405	0.480	0.430	0.450	0.440	0.485	0.510
	5	0.495	0.460	0.435	0.480	0.405	0.410	0.460	0.510	0.460	0.460	0.485
	10	0.500	0.510	0.410	0.455	0.490	0.450	0.435	0.445	0.450	0.435	0.445
Bow	Feet	390	395	400	405	410	415	420	425	430	435	440
	Belt	79	80	81	82	83	84	85	86	87	88	89
< South				< 15%			15 to 25%		25 to 50%			

Appendix 1 Color Coded: Pontoon Bottom (Center Tanks)

Bow	Feet	445	450	455	460	465	470	475	480	485	490	495	500					
West	Belt	90	91	92	93	94	95	96	97	98	99	100	101					
	10	0.460	0.470	0.450	0.495	0.475	0.530	0.455	0.465	0.450	0.495	0.445	0.440					
	5	0.470	0.475	0.485	0.495	0.475	0.500	0.500	0.480	0.490	0.470	0.460	0.495					
East	0	0.495	0.515	0.490	0.460	0.475	0.485	0.470	0.475	0.465	0.455	0.465	0.470					
	5	0.470	0.475	0.460	0.450	0.500	0.480	0.465	0.480	0.485	0.475	0.485	0.475					
	10	0.485	0.485	0.460	0.465	0.480	0.465	0.460	0.505	0.475	0.500	0.485	0.460					
	Feet	445	450	455	460	465	470	475	480	485	490	495	500					
Bow	Belt	90	91	92	93	94	95	96	97	98	99	100	101					
< South									> 50%						< 15%			15% to 25

Appendix 1 Color Coded: Pontoon Bottom (Center Tanks)

Bow	Feet	505	510	515	520	525	530	535	540	545	550	555	560
West	Belt	102	103	104	105	106	107	108	109	110	111	112	113
	10	0.455	0.460	0.460	0.455	0.455	0.460	0.455	0.440	0.475	0.465	0.445	0.470
	5	0.475	0.440	0.460	0.450	0.460	0.465	0.445	0.425	0.435	0.495	0.415	0.435
East	0	0.485	0.480	0.460	0.450	0.455	0.465	0.455	0.455	0.485	0.445	0.520	0.485
	5	0.465	0.495	0.485	0.420	0.425	0.480	0.435	0.475	0.480	0.445	0.470	0.490
	10	0.480	0.475	0.460	0.475	0.410	0.430	0.460	0.455	0.505	0.480	0.450	0.510
Bow	Feet	505	510	515	520	525	530	535	540	545	550	555	560
Bow	Belt	102	103	104	105	106	107	108	109	110	111	112	113
< South %				25% to 50%				> 50%					

Appendix 1 Color Coded: Pontoon Bottom (Center Tanks)

Bow	Feet	565	570	575	580	585	590	595	600	605	610	615	620
West	Belt	114	115	116	117	118	119	120	121	122	123	124	125
	10	0.460	0.460	0.455	0.445	0.435	0.475	0.435	0.485	0.485	0.460	0.485	0.460
	5	0.500	0.460	0.430	0.440	0.465	0.430	0.455	0.485	0.485	0.485	0.460	0.475
	0	0.415	0.455	0.475	0.460	0.445	0.470	0.460	0.485	0.485	0.480	0.485	0.465
East	5	0.500	0.480	0.465	0.475	0.450	0.440	0.440	0.475	0.480	0.500	0.520	0.495
	10	0.515	0.465	0.450	0.465	0.465	0.445	0.445	0.465	0.460	0.495	0.500	0.495
	Feet	565	570	575	580	585	590	595	600	605	610	615	620
Bow	Belt	114	115	116	117	118	119	120	121	122	123	124	125
		< South	< 15%		15% to 25%		25% to 50%		> 50%				

Appendix 1 Color Coded: Pontoon Bottom (Center Tanks)

Bow	Feet	625	630	635	640	645	650	655	660	665	670	675	680
West	Belt	126	127	128	129	130	131	132	133	134	135	136	137
	10	0.485	0.475	0.470	0.490	0.490	0.470	0.500	0.495	0.495	0.485	0.465	0.460
	5	0.470	0.475	0.460	0.485	0.495	0.485	0.495	0.520	0.495	0.505	0.480	0.460
	0	0.420	0.490	0.485	0.490	0.495	0.490	0.480	0.505	0.460	0.460	0.505	0.505
East	5	0.500	0.490	0.500	0.500	0.465	0.480	0.490	0.495	0.485	0.475	0.465	0.460
	10	0.505	0.495	0.490	0.500	0.500	0.490	0.500	0.465	0.485	0.450	0.485	0.465
	Feet	625	630	635	640	645	650	655	660	665	670	675	680
Bow	Belt	126	127	128	129	130	131	132	133	134	135	136	137
< South						< 15%		15% to 25%		25% to 50%			

Appendix 1 Color Coded: Pontoon Bottom (Center Tanks)

Bow	Feet	685	690	695	700	705	710	715	720	725	730	735	740
West	Belt	138	139	140	141	142	143	144	145	146	147	148	149
	10	0.460	0.475	0.465	0.475	0.490	0.490	0.465	0.480	0.435	0.465	0.455	0.460
	5	0.475	0.465	0.485	0.500	0.495	0.485	0.460	0.480	0.475	0.480	0.280	0.235
	0	0.490	0.495	0.490	0.490	0.475	0.490	0.455	0.475	0.495	0.485	0.450	0.250
East	5	0.475	0.490	0.505	0.505	0.490	0.435	0.485	0.475	0.485	0.470	0.450	0.500
	10	0.475	0.480	0.470	0.505	0.465	0.480	0.470	0.485	0.490	0.485	0.495	0.495
	Feet	685	690	695	700	705	710	715	720	725	730	735	740
Bow	Belt	138	139	140	141	142	143	144	145	146	147	148	149
< South		> 50%							< 15%			15% to 25	

Appendix 1 Color Coded: Pontoon Bottom (Center Tanks)

Bow	Feet	745	750	755	760	765	770	775	780	785	790	795	800
West	Belt	150	151	152	153	154	155	156	157	158	159	160	161
	10	0.285	0.480	0.480	0.470	0.480	0.485	0.500	0.490	0.480	0.495	0.490	0.460
	5	0.495	0.470	0.480	0.500	0.500	0.500	0.485	0.500	0.505	0.495	0.485	0.500
	0	0.490	0.500	0.410	0.510	0.480	0.500	0.485	0.515	0.495	0.505	0.500	0.480
East	5	0.490	0.485	0.450	0.500	0.480	0.490	0.480	0.490	0.500	0.505	0.505	0.485
	10	0.495	0.475	0.480	0.480	0.510	0.500	0.470	0.500	0.505	0.495	0.435	0.490
	Feet	745	750	755	760	765	770	775	780	785	790	795	800
Bow	Belt	150	151	152	153	154	155	156	157	158	159	160	161
< South %													
				25% to 50%									
													> 50%

Appendix 1 Color Coded: Pontoon Bottom (Center Tanks)

It looks like this was just an extra page printed from the spreadsheet with no data on it

Bow	Feet	Feet	Bow
West	Belt	Belt	West
	10	10	
	5	5	
	0	0	
East	5	5	East
	10	10	
	Feet	Belt	
Bow	Belt	Feet	Bow

< South North >

Appendix 2: Pontoon Deck-Topside

UTs taken from the topside of pontoon deck January 2016. This data was not revised in August 2016.

		DP- Doubler Plate						TP- Thin Plate					
< South													
Feet from Bow:		5	10	15	20	25	30	35	40	45	50	55	
BELT		1	2	3	4	5	6	7	8	9	10	11	
WEST	Location (Distance From Wall in Feet)	5	0.379	0.318	DP	0.480	0.460	0.452	0.462	TP		0.580	0.516
		10	0.402	0.406	0.266	0.460	0.501	0.451	0.468	TP		0.582	0.510
		15	0.508	0.500	0.504	0.500	0.500	0.502	0.500	0.504	0.500	0.500	0.386
		20	0.498	0.500	0.500	0.502	0.502	0.500	0.500	0.500	0.500	0.498	0.456
		25	0.446	0.348	0.348	0.610	0.458	0.380	0.382	0.368	0.492	0.440	0.442
		30	RAMP	0.696	0.740	0.752	0.400	0.364	0.412	0.494	0.386	0.456	0.420
		35	RAMP	0.744	0.752	0.756	0.420	0.347	0.382	0.288	0.438	0.386	0.480
		40	RAMP	0.750	0.740	0.756	0.460	0.346	0.484	0.400	0.428	0.400	0.450
		45	0.460	0.754	0.756	0.416	0.426	0.436	0.378	0.466	0.496	0.456	0.458
		50	0.468	0.478	0.424	0.420	0.460	0.456	0.398	0.448	0.428	0.404	
		55	RAMP	RAMP	0.424	0.480	0.402	0.430	0.416	0.438	0.464	0.438	
		60	RAMP	RAMP	0.460	0.464	0.404	0.462	0.452	0.454	0.484	0.470	0.470
		65	RAMP	RAMP	0.470	0.502	0.482	0.460	0.444	0.460	0.442	0.452	0.480
Centerline		DP											
EAST	Location (Distance From Wall in Feet)	70	DP										
		65	0.500	0.496	0.470	0.460	DP	0.478	0.474	0.488	0.454	0.456	0.428
		60	0.478	0.469	0.524	0.478	0.452	0.480	0.488	0.462	0.452	0.460	0.462
		55	0.540	0.429	0.550	0.484	0.482	0.476	0.460	0.462	0.460	0.476	0.466
		50	0.480	0.486	0.488	0.482	0.474	0.452	0.464	0.488	0.448	0.464	0.454
		45	RAMP	RAMP	0.446	0.472	0.510	0.456	0.460	0.450	0.456	0.478	0.480
		40	RAMP	RAMP	0.480	0.400	0.478	0.462	0.462	0.462	0.436	0.470	0.214
		35	0.570	0.470	0.405	0.586	0.506	0.450	0.452	0.486	0.454	0.466	0.504
		30	0.446	0.478	0.488	0.465	0.747	0.470	0.472	0.450	0.448	0.456	0.402
		25	0.424	0.480	0.492	0.492	0.480	0.490	0.474	0.474	0.428	0.480	0.424
		20	0.476	0.442	0.458	0.450	0.468	0.344	0.452	0.239	0.284	0.464	0.436
		15	0.474	0.474	0.462	0.290	0.472	0.484	.460.	0.488	0.453	0.238	0.264
		10	0.481	0.474	0.234	0.428	0.474	0.236	0.456	0.362	0.452	0.242	0.222
5	0.234	0.484	0.336	0.422	0.438	0.274	0.340	0.262	0.408	0.322	0.270		
BELT		1	2	3	4	5	6	7	8	9	10	11	
Feet from Bow:		5	10	15	20	25	30	35	40	45	50	55	

Appendix 2: Pontoon Deck-Topside

60	65	70	75	80	85	90	95	100	105	110	115	120
12	13	14	15	16	17	18	19	20	21	22	23	24
0.510	0.508	0.512	0.512	0.514	0.516	0.518	0.518	0.520	0.518	0.566	0.518	0.510
0.502	0.504	0.502	0.506	0.506	0.512	0.516	0.512	0.514	0.512	2.220	2.200	0.456
0.480	0.322	0.310	0.508	0.500	0.262	TP	0.394	0.416	0.408	0.452	0.398	0.382
0.314	0.176	0.336	0.394	0.440	0.486	0.396	0.500	0.440	0.474	0.416	0.440	0.340
0.460	0.458	0.456	0.294	0.456	0.468	0.424	0.516	0.448	0.422	0.434	0.490	0.146
0.448	0.440	0.482	0.545	0.464	0.350	0.430	0.448	0.438	0.498	0.416	0.464	0.426
0.410	0.482	0.336	0.486	0.492	0.478	0.464	0.416	0.428	0.340	0.404	0.448	0.312
0.460	0.460	0.456	0.404	0.440	0.452	0.438	0.460	0.400	0.462	0.420	0.420	0.000
0.496	0.476	0.466	DP	0.474	0.460	0.518	0.462	0.424	0.448			
DP				0.480	0.462	0.504	0.518	0.464	0.404			
DP		0.476										
0.460	0.452	0.460										
0.484	0.480	DP										
DP												
0.468	0.428	0.412										
0.454	0.448	0.462										
0.474	0.474	0.468										
0.506	0.468	0.470		0.468	0.470	0.454	0.178	0.390	0.458			
0.470	0.482	0.470	0.474	0.470	0.468	0.450	0.468	0.428	0.462			
0.466	0.466	0.446	0.364	0.448	0.346	0.438	0.476	0.456	0.442	0.170	0.486	0.458
0.352	0.462	0.354	0.452	0.430	0.338	0.432	0.458	0.462	0.380	0.452	0.330	0.412
0.442	0.452	0.346	0.454	0.490	0.490	0.368	0.342	0.300	0.452	0.402	0.334	0.416
0.452	0.382	0.416	0.438	0.408	0.464	0.408	0.206	0.408	0.428	0.250	0.422	0.246
0.464	0.456	0.448	0.398	0.420	0.340	0.424	DP		0.264	0.324	0.398	0.362
0.188	DEBRIS	0.316	0.436	0.362	0.438	0.440	0.322	0.496	0.288	0.492	0.382	0.370
0.342	DEBRIS	DEBRIS	0.406	0.230	0.332	0.330	0.264	0.326	0.252	0.344	0.242	0.202
0.376	0.220	0.186	0.288	0.188	0.172	0.180	0.238	0.286	0.278	0.250	0.284	0.274
12	13	14	15	16	17	18	19	20	21	22	23	24
60	65	70	75	80	85	90	95	100	105	110	115	120

Appendix 2: Pontoon Deck-Topside

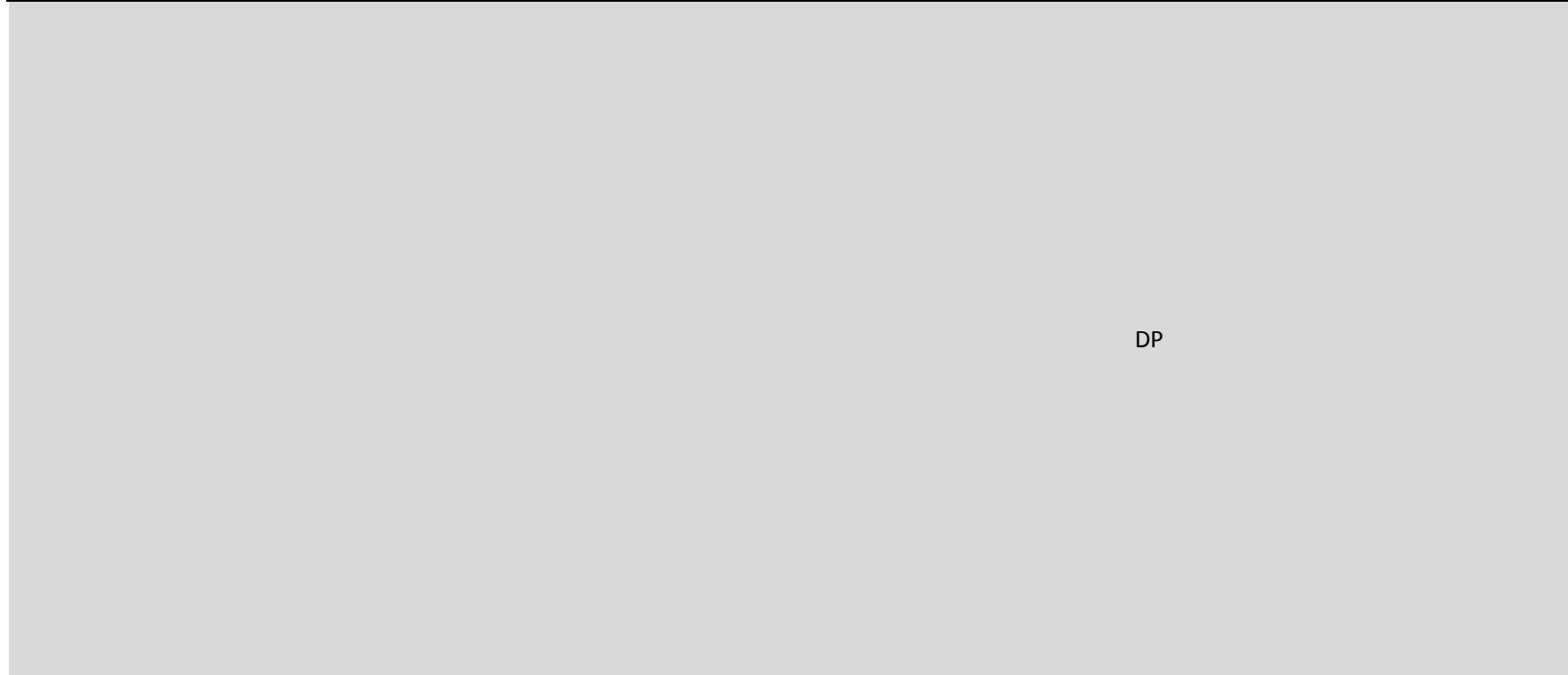
125	130	135	140	145	150	155	160	165	170	175	180	185										
25	26	27	28	29	30	31	32	33	34	35	36	37										
0.516	0.492	0.498	0.492	0.494	0.496	0.438	0.494	0.488	0.490	0.488	0.492	0.492										
0.308	0.412	0.504	0.514	0.510	0.512	0.514	0.492	0.496	0.494	0.496	0.492	0.492										
0.146	0.452	0.508	0.506	0.504	0.506	0.506	0.492	0.496	0.492	0.492	0.494	0.492										
0.260	0.418	0.458	0.410	0.416	0.382	0.424	0.404	0.404	0.380	0.420	0.212	0.418										
0.510	0.450	0.460	0.434	0.445	0.558	0.440	0.342	0.434	0.408	0.310	0.396	0.416										
0.474	0.466	0.400	0.466	0.447	0.416	0.420	0.446	0.298	0.440	0.382	0.314	0.430										
0.478	0.430	DP	0.400	0.500	0.556	0.428	0.344	0.474	0.300	0.224	0.428	0.440										
0.444	0.472		0.588	DP																		
DP														DP								
0.506	0.426	0.416	0.296											0.366	0.372	0.388	0.440	0.398	0.428	0.424	0.380	0.398
0.335	0.468	0.398	0.368											0.325	0.388	0.396	0.388	0.486	0.412	0.390	0.556	0.438
0.422	0.414	0.438	0.398											0.374	0.420	0.408	0.320	0.446	0.428	0.436	0.428	0.440
0.412	0.222	0.360	0.298											0.382	0.406	0.332	0.414	0.476	0.412	0.410	0.446	0.456
0.402	0.292	0.250	0.378											0.186	0.286	0.270	0.422	0.508	0.416	0.446	0.442	0.320
0.212	0.186	0.516	0.500											0.502	0.514	0.514	0.450	0.510	0.516	0.300	0.420	0.416
0.292	0.350	0.510	410.000											0.506	0.514	0.510	0.510	0.500	0.510	0.356	0.442	0.408
0.246	0.194	0.500	0.496											0.502	492.000	0.498	0.494	0.598	0.496	0.494	0.498	0.429
25	26	27	28	29	30	31	32	33	34	35	36	37										
125	130	135	140	145	150	155	160	165	170	175	180	185										

Appendix 2: Pontoon Deck-Topside

190	195	200	205	210	215	220	225	230	235	240	245	250	
38	39	40	41	42	43	44	45	46	47	48	49	50	
0.492	0.486	0.492	0.488	0.488	0.492	0.488	0.492	0.490	0.492	0.490	0.516	0.492	
0.494	0.492	0.412	0.412	0.441	0.413	0.428	0.426	0.368	0.376	0.514	0.494	0.496	
0.492	0.490	0.440	0.448	0.448	0.406	0.418	0.338	0.426	0.488	0.560	0.386	0.460	
0.168	0.400	0.492	0.444	0.418	0.404	0.450	0.404	DP					
0.420	0.419	0.432	0.374	0.434	0.422	0.434	4.280						
0.412	0.412												
0.456	0.190												
DP													
0.468	0.400	0.342	0.492	0.402	0.358	0.242	0.182	0.268	0.204	0.354	0.232		
0.316	0.430	0.350	0.408	0.416	0.358	0.224	0.268	0.368	0.109	0.296	0.246		
0.374	0.448	0.414	0.482	0.410	0.492	0.486	0.184	0.136	0.132	0.632	0.448	0.260	
0.406	0.434	0.210	0.480	0.416	0.408	0.355	0.384	0.446	0.420	0.376	0.256	0.350	
0.460	0.438	0.400	0.424	0.260	0.434	0.314	0.416	0.438	0.434	0.346	0.532	0.408	
0.442	0.410	0.408	0.352	0.430	0.414	0.330	0.304	0.482	0.428	0.256	0.402	0.408	
0.440	0.362	0.408	0.322	0.330	0.596	0.456	0.388	0.432	0.589	0.228	0.122	0.274	
0.494	0.486	0.429	0.498	0.506	0.484	0.340	0.280	0.368	0.486	0.410	0.339	0.468	
38	39	40	41	42	43	44	45	46	47	48	49	50	
190	195	200	205	210	215	220	225	230	235	240	245	250	

Appendix 2: Pontoon Deck-Topside

255	260	265	270	275	280	285	290	295	300	305	310	315
51	52	53	54	55	56	57	58	59	60	61	62	63
0.492	0.488	0.516	.492.	0.490	0.488	0.502	0.502	0.510	0.500	0.506	0.500	0.506
0.492	0.492	0.490	0.488	0.492	0.492	0.396	0.426	0.396	0.296	0.434	0.396	0.424
0.394	0.396	0.442	0.394	0.402	0.430	0.302	0.408	0.398	0.422	0.460	0.416	0.410



DP

0.126	0.442	0.434	0.130	0.308	0.424	0.498	0.436	0.460	0.438	0.428	0.354	0.296
0.310	0.138	0.148	0.448	0.436	0.424	0.420	0.454	0.470	0.314	0.444	0.264	DP
0.126	0.460	0.206	0.178	0.438	0.390	0.408	0.192	0.456	0.494	0.255	0.358	0.354
0.184	0.202	0.304	0.136	0.420	0.350	0.442	0.430	0.382	0.430	0.252	0.230	0.456
0.132	0.232	0.132	0.206	DP	0.278	0.428	0.414	0.498	0.386	0.350	0.280	0.344
0.256	0.136	0.254	0.594	0.412	0.398	0.310	0.486	0.476	0.486	0.488	0.488	0.354
51	52	53	54	55	56	57	58	59	60	61	62	63

255 260 265 270 275 280 285 290 295 300 305 310 315

Appendix 2: Pontoon Deck-Topside

320	325	330	335	340	345	350	355	360	365	370	375	380			
64	65	66	67	68	69	70	71	72	73	74	75	76			
TP							DP								
0.390	0.422	0.434	0.410	0.400	0.444	0.340									
0.426	0.428	0.418	0.430	0.440	0.376	0.348									
0.354	0.342	0.356	0.206	0.350	0.242	0.364							0.288	0.274	0.356
0.358	0.190	0.354	0.302	0.348	0.412	DP							0.356	0.354	0.356
0.296	0.354	0.342	0.348	0.346	0.350	0.362							0.286	0.206	0.348
0.384	0.296	0.358	0.354	0.352	0.288	0.344							0.354	0.354	0.288
0.355	0.350	0.286	0.350	0.356	0.364	0.202							0.408	0.480	0.296
0.350	0.286	0.442	0.302	0.364	0.292	0.452							0.524	0.350	0.244
64	65	66	67	68	69	70							71	72	73
320	325	330	335	340	345	350	355	360	365	370	375	380			

Appendix 2: Pontoon Deck-Topside

385	390	395	400	405	410	415	420	425	430	435	440	445
77	78	79	80	81	82	83	84	85	86	87	88	89
77	78	79	80	81	82	83	84	85	86	87	88	89
385	390	395	400	405	410	415	420	425	430	435	440	445

Appendix 2: Pontoon Deck-Topside

450	455	460	465	470	475	480	485	490	495	500	505	510
90	91	92	93	94	95	96	97	98	99	100	101	102
DP												
90	91	92	93	94	95	96	97	98	99	100	101	102
450	455	460	465	470	475	480	485	490	495	500	505	510

Appendix 2: Pontoon Deck-Topside

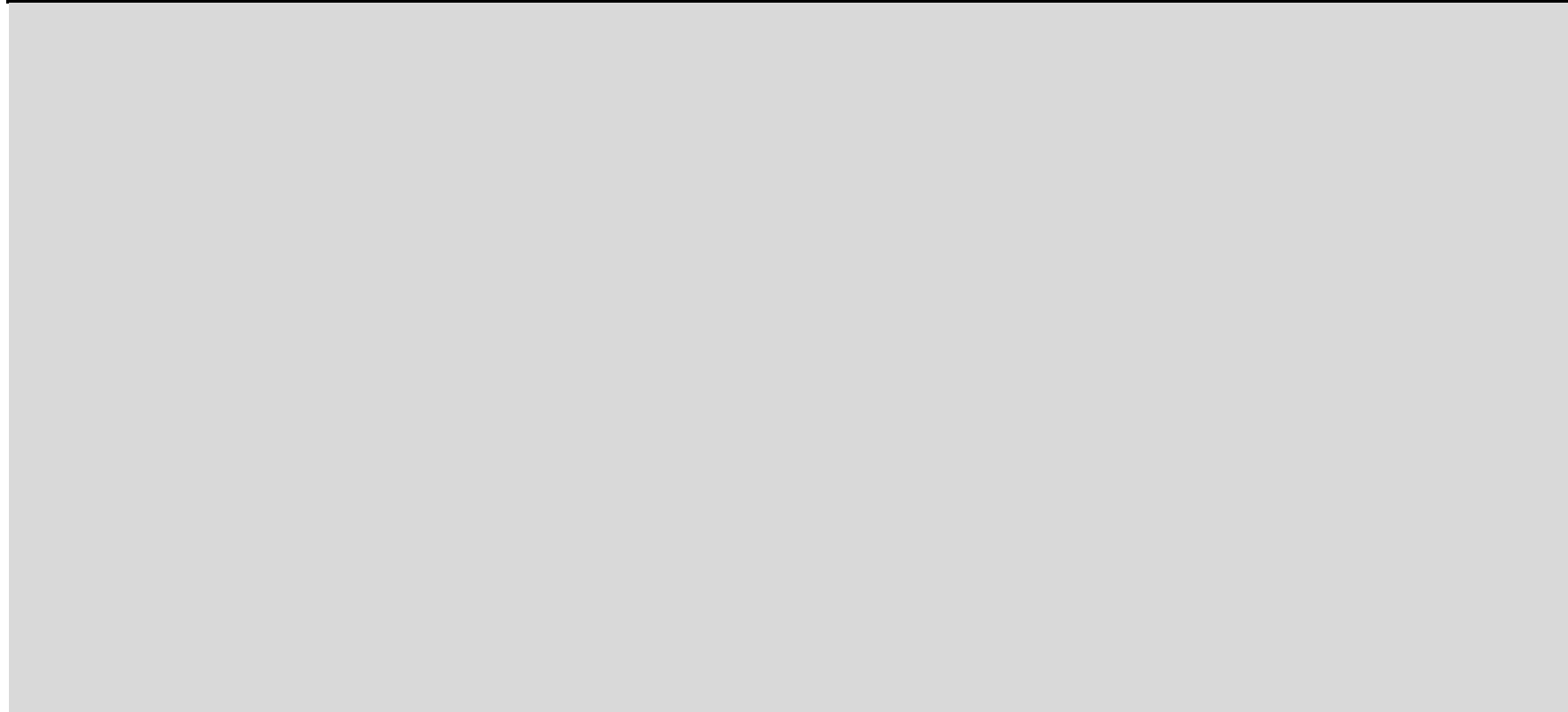
515	520	525	530	535	540	545	550	555	560	565	570	575
103	104	105	106	107	108	109	110	111	112	113	114	115
103	104	105	106	107	108	109	110	111	112	113	114	115
515	520	525	530	535	540	545	550	555	560	565	570	575

Appendix 2: Pontoon Deck-Topside

580	585	590	595	600	605	610	615	620	625	630	635	640											
116	117	118	119	120	121	122	123	124	125	126	127	128											
											0.492	0.256											
											0.444	0.300											
											0.400	0.490											
											0.319	0.270											
											DP		0.440										
													0.442										
													0.502										
													0.506										
											116	117	118	119	120	121	122	123	124	125	126	127	128
											580	585	590	595	600	605	610	615	620	625	630	635	640

Appendix 2: Pontoon Deck-Topside

645	650	655	660	665	670	675	680	685	690	695	700	705
129	130	131	132	133	134	135	136	137	138	139	140	141
0.252	0.250	0.251	0.204	DP	DP	DP	0.256	0.358	0.388	0.322	0.394	0.346
0.424	0.264	0.420	0.168	0.426	0.400	.452.	0.450	0.470	0.460	0.208	0.360	0.240
0.438	0.140	0.300	0.426	0.222	0.382	0.296	0.430	0.244	0.486	0.346	0.420	0.380
0.328	0.380	0.202	0.210	0.376	0.392	0.448	0.398	0.462	0.440	0.198	0.426	0.366

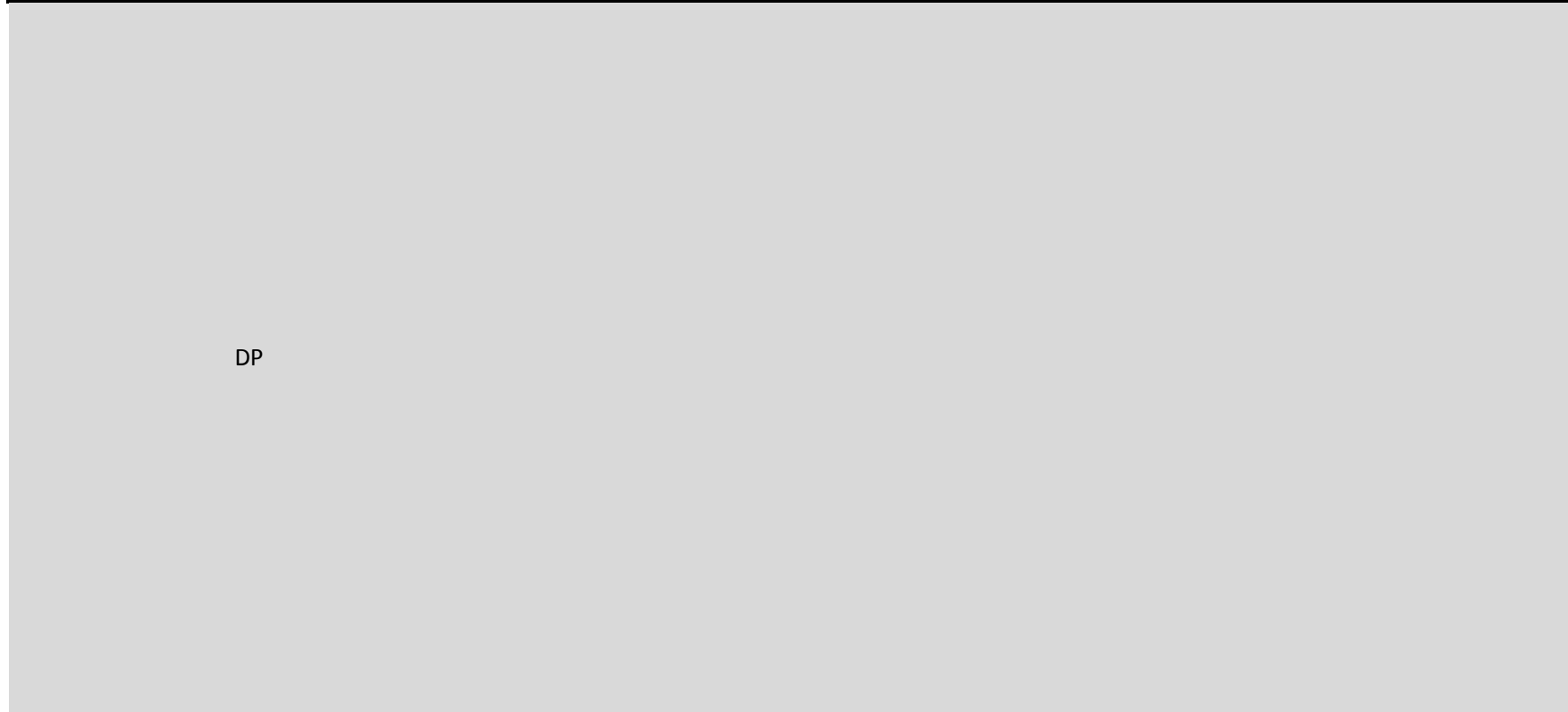


0.420	0.468	0.480	0.414	0.412	0.408	0.430	0.462	0.419	0.342	0.494	0.354	0.488
0.408	0.452	0.286	0.430	0.178	0.500	0.456	0.500	0.474	0.470	0.424	0.440	0.416
0.476	0.416	0.410	0.372	0.474	0.412	0.382	0.352	0.480	0.290	0.486	0.282	0.322
0.500	0.500	0.512	0.510	0.506	0.502	0.502	0.316	0.262	0.386	0.284	0.322	0.284
129	130	131	132	133	134	135	136	137	138	139	140	141

645 650 655 660 665 670 675 680 685 690 695 700 705

Appendix 2: Pontoon Deck-Topside

710	715	720	725	730	735	740	745	750	755	760	765	770
142	143	144	145	146	147	148	149	150	151	152	153	154
0.222	0.340	0.156	0.370	0.321	0.316	0.318	0.364	0.316	0.296	DP	DP	DP
0.452	0.440	0.470	0.411	0.400	0.462	0.310	0.352	0.344	0.276	0.196	0.450	DP
0.316	0.426	0.454	0.386	0.367	0.460	0.400	0.415	0.422	0.448	0.470	0.326	0.196
0.400	0.340	0.440	0.380	0.352	0.132	0.386	0.310	0.400	0.442	0.226	0.386	0.222



DP

0.470	0.444	0.417	0.386	0.470	0.452	0.264	0.466	0.456	0.380	0.244	0.426	0.460
0.426	0.444	0.440	0.244	0.346	0.382	0.214	0.276	0.156	0.356	0.386	0.332	DP
0.302	0.450	0.250	0.382	0.312	0.372	0.266	0.392	0.320	0.470	TP	TP	DP
0.476	0.360	0.300	0.334	0.280	0.238	0.278	0.182	0.186	0.346	0.246	TP	0.490
142	143	144	145	146	147	148	149	150	151	152	153	154

710 715 720 725 730 735 740 745 750 755 760 765 770

Appendix 2: Pontoon Deck-Topside

DP - Doubler Plate		TP - Thin Plate		Drydock Pontoon Deck		North >	
775	780	785	790	795			
155	156	157	158	159			
DP	0.230	0.350	DP	0.328	5	Location (Distance From Wall in Feet)	WEST
0.472	0.452	0.384	0.498	0.500	10		
0.476	0.412	0.410	0.494	0.496	15		
0.422	0.480	0.486	0.484	0.276	20		
					25		
					30		
					35		
					40		
					45		
					50		
					55		
					60		
					65		
					70		
Centerline							
					70	Location (Distance From Wall in Feet)	EAST
					65		
					60		
					55		
					50		
					45		
					40		
					35		
					30		
					25		
0.410	0.410	0.470	0.360	0.386	20		
0.398	0.386	TP			15		
0.460	0.222	0.486	0.454	0.440	10		
0.410	TP	TP	DP	0.128	5		
155	156	157	158	159			
775	780	785	790	795			

Appendix 2 Comparison: Pontoon Deck-Topside

< South

feet from Bow:

BELT		Built	1	Diff	%		Built	2	Diff	%		Built	3	Diff	%		Built	4	Diff	%	
WEST	Location (Distance From Wall in Feet)	5	0.5	0.379	-0.121	-24%		0.5	0.318	-0.182	-36%		0.5	DP				0.5	0.480	-0.020	-4%
		10	0.5	0.402	-0.098	-20%		0.5	0.406	-0.094	-19%		0.5	0.266	-0.234	-47%		0.5	0.460	-0.040	-8%
		15	0.5	0.508	0.008	2%		0.5	0.500	0.000	0%		0.5	0.504	0.004	1%		0.5	0.500	0.000	0%
		20	0.5	0.498	-0.002	0%		0.5	0.500	0.000	0%		0.5	0.500	0.000	0%		0.5	0.502	0.002	0%
		25	0.5	0.446	-0.054	-11%		0.5	0.348	-0.152	-30%		0.5	0.348	-0.152	-30%		0.5	0.610	0.110	22%
		30	0.5	RAMP				0.5	0.696	0.196	39%		0.5	0.740	0.240	48%		0.5	0.752	0.252	50%
		35	0.5	RAMP				0.5	0.744	0.244	49%		0.5	0.752	0.252	50%		0.5	0.756	0.256	51%
		40	0.5	RAMP				0.5	0.750	0.250	50%		0.5	0.740	0.240	48%		0.5	0.756	0.256	51%
		45	0.5	0.460	-0.040	-8%		0.5	0.754	0.254	51%		0.5	0.756	0.256	51%		0.5	0.416	-0.084	-17%
		50	0.5	0.468	-0.032	-6%		0.5	0.478	-0.022	-4%		0.5	0.424	-0.076	-15%		0.5	0.420	-0.080	-16%
		55	0.5	RAMP				0.5	RAMP				0.5	0.424	-0.076	-15%		0.5	0.480	-0.020	-4%
		60	0.5	RAMP				0.5	RAMP				0.5	0.460	-0.040	-8%		0.5	0.464	-0.036	-7%
		65	0.5	RAMP				0.5	RAMP				0.5	0.470	-0.030	-6%		0.5	0.502	0.002	0%
		70	0.5	0.494	-0.006	-1%		0.5	4.920	4.420	884%		0.5	0.486	-0.014	-3%		0.5	0.462	-0.038	-8%
Centerline																					
EAST	Location (Distance From Wall in Feet)	70																			
		65	0.5	0.500	0.000	0%		0.5	0.496	-0.004	-1%		0.5	0.470	-0.030	-6%		0.5	0.460	-0.040	-8%
		60	0.5	0.478	-0.022	-4%		0.5	0.469	-0.031	-6%		0.5	0.524	0.024	5%		0.5	0.478	-0.022	-4%
		55	0.5	0.540	0.040	8%		0.5	0.429	-0.072	-14%		0.5	0.550	0.050	10%		0.5	0.484	-0.016	-3%
		50	0.5	0.480	-0.020	-4%		0.5	0.486	-0.014	-3%		0.5	0.488	-0.012	-2%		0.5	0.482	-0.018	-4%
		45	0.5	RAMP				0.5	RAMP				0.5	0.446	-0.054	-11%		0.5	0.472	-0.028	-6%
		40	0.5	RAMP				0.5	RAMP				0.5	0.480	-0.020	-4%		0.5	0.400	-0.100	-20%
		35	0.5	0.570	0.070	14%		0.5	0.470	-0.030	-6%		0.5	0.405	-0.095	-19%		0.5	0.586	0.086	17%
		30	0.5	0.446	-0.054	-11%		0.5	0.478	-0.022	-4%		0.5	0.488	-0.012	-2%		0.5	0.465	-0.035	-7%
		25	0.5	0.424	-0.076	-15%		0.5	0.480	-0.020	-4%		0.5	0.492	-0.008	-2%		0.5	0.492	-0.008	-2%
		20	0.5	0.476	-0.024	-5%		0.5	0.442	-0.058	-12%		0.5	0.458	-0.042	-8%		0.5	0.450	-0.050	-10%
		15	0.5	0.474	-0.026	-5%		0.5	0.474	-0.026	-5%		0.5	0.462	-0.038	-8%		0.5	0.290	-0.210	-42%
		10	0.5	0.481	-0.019	-4%		0.5	0.474	-0.026	-5%		0.5	0.234	-0.266	-53%		0.5	0.428	-0.072	-14%
5	0.5	0.234	-0.266	-53%		0.5	0.484	-0.016	-3%		0.5	0.336	-0.164	-33%		0.5	0.422	-0.078	-16%		
BELT		Built	1	Diff	%		Built	2	Diff	%		Built	3	Diff	%		Built	4	Diff	%	

feet from Bow:

Appendix 2 Comparison: Pontoon Deck-Topside

< South

Feet from Bow:

BELT		25				30				35				40					
BELT		Built	5	Diff	%	Built	6	Diff	%	Built	7	Diff	%	Built	8	Diff	%		
WEST	Location (Distance From Wall in Feet)	5	0.5	0.460	-0.040	-8%	0.5	0.452	-0.048	-10%	0.5	0.462	-0.038	-8%	0.5	TP			
		10	0.5	0.501	0.001	0%	0.5	0.451	-0.049	-10%	0.5	0.468	-0.032	-6%	0.5	TP			
		15	0.5	0.500	0.000	0%	0.5	0.502	0.002	0%	0.5	0.500	0.000	0%	0.5	0.504	0.004	1%	
		20	0.5	0.502	0.002	0%	0.5	0.500	0.000	0%	0.5	0.500	0.000	0%	0.5	0.500	0.000	0%	
		25	0.5	0.458	-0.042	-8%	0.5	0.380	-0.120	-24%	0.5	0.382	-0.118	-24%	0.5	0.368	-0.132	-26%	
		30	0.5	0.400	-0.100	-20%	0.5	0.364	-0.136	-27%	0.5	0.412	-0.088	-18%	0.5	0.494	-0.006	-1%	
		35	0.5	0.420	-0.080	-16%	0.5	0.347	-0.153	-31%	0.5	0.382	-0.118	-24%	0.5	0.288	-0.212	-42%	
		40	0.5	0.460	-0.040	-8%	0.5	0.346	-0.154	-31%	0.5	0.484	-0.016	-3%	0.5	0.400	-0.100	-20%	
		45	0.5	0.426	-0.074	-15%	0.5	0.436	-0.064	-13%	0.5	0.378	-0.122	-24%	0.5	0.466	-0.034	-7%	
		50	0.5	0.460	-0.040	-8%	0.5	0.456	-0.044	-9%	0.5	0.398	-0.102	-20%	0.5	0.448	-0.052	-10%	
		55	0.5	0.402	-0.098	-20%	0.5	0.430	-0.070	-14%	0.5	0.416	-0.084	-17%	0.5	0.438	-0.062	-12%	
		60	0.5	0.404	-0.096	-19%	0.5	0.462	-0.038	-8%	0.5	0.452	-0.048	-10%	0.5	0.454	-0.046	-9%	
		65	0.5	0.482	-0.018	-4%	0.5	0.460	-0.040	-8%	0.5	0.444	-0.056	-11%	0.5	0.460	-0.040	-8%	
		70	0.5	0.474	-0.026	-5%	0.5	0.482	-0.018	-4%	0.5	0.480	-0.020	-4%	0.5	0.492	-0.008	-2%	
Centerline		DP																	
EAST	Location (Distance From Wall in Feet)	70	DP																
		65	0.5	DP			0.5	0.478	-0.022	-4%	0.5	0.474	-0.026	-5%	0.5	0.488	-0.012	-2%	
		60	0.5	0.452	-0.048	-10%	0.5	0.480	-0.020	-4%	0.5	0.488	-0.012	-2%	0.5	0.462	-0.038	-8%	
		55	0.5	0.482	-0.018	-4%	0.5	0.476	-0.024	-5%	0.5	0.460	-0.040	-8%	0.5	0.462	-0.038	-8%	
		50	0.5	0.474	-0.026	-5%	0.5	0.452	-0.048	-10%	0.5	0.464	-0.036	-7%	0.5	0.488	-0.012	-2%	
		45	0.5	0.510	0.010	2%	0.5	0.456	-0.044	-9%	0.5	0.460	-0.040	-8%	0.5	0.450	-0.050	-10%	
		40	0.5	0.478	-0.022	-4%	0.5	0.462	-0.038	-8%	0.5	0.462	-0.038	-8%	0.5	0.462	-0.038	-8%	
		35	0.5	0.506	0.006	1%	0.5	0.450	-0.050	-10%	0.5	0.452	-0.048	-10%	0.5	0.486	-0.014	-3%	
		30	0.5	0.747	0.247	49%	0.5	0.470	-0.030	-6%	0.5	0.472	-0.028	-6%	0.5	0.450	-0.050	-10%	
		25	0.5	0.480	-0.020	-4%	0.5	0.490	-0.010	-2%	0.5	0.474	-0.026	-5%	0.5	0.474	-0.026	-5%	
		20	0.5	0.468	-0.032	-6%	0.5	0.344	-0.156	-31%	0.5	0.452	-0.048	-10%	0.5	0.239	-0.261	-52%	
		15	0.5	0.472	-0.028	-6%	0.5	0.484	-0.016	-3%	0.5	0.460	-0.040	-8%	0.5	0.488	-0.012	-2%	
		10	0.5	0.474	-0.026	-5%	0.5	0.236	-0.264	-53%	0.5	0.456	-0.044	-9%	0.5	0.362	-0.138	-28%	
5	0.5	0.438	-0.062	-12%	0.5	0.274	-0.226	-45%	0.5	0.340	-0.160	-32%	0.5	0.262	-0.238	-48%			
BELT		Built	5	Diff	%	Built	6	Diff	%	Built	7	Diff	%	Built	8	Diff	%		
Feet from Bow:		25				30				35				40					

Appendix 2 Comparison: Pontoon Deck-Topside

< South

feet from Bow:

BELT		Built	9	Diff	%		Built	10	Diff	%		Built	11	Diff	%		Built	12	Diff	%			
WEST	Location (Distance From Wall in Feet)	5					0.5	0.580	0.080	16%		0.5	0.516	0.016	3%		0.5	0.510	0.010	2%			
		10					0.5	0.582	0.082	16%		0.5	0.510	0.010	2%		0.5	0.502	0.002	0%			
		15	0.5	0.500	0.000	0%		0.5	0.500	0.000	0%		0.5	0.386	-0.114	-23%		0.5	0.480	-0.020	-4%		
		20	0.5	0.500	0.000	0%		0.5	0.498	-0.002	0%		0.5	0.456	-0.044	-9%		0.5	0.314	-0.186	-37%		
		25	0.5	0.492	-0.008	-2%		0.5	0.440	-0.060	-12%		0.5	0.442	-0.058	-12%		0.5	0.460	-0.040	-8%		
		30	0.5	0.386	-0.114	-23%		0.5	0.456	-0.044	-9%		0.5	0.420	-0.080	-16%		0.5	0.448	-0.052	-10%		
		35	0.5	0.438	-0.062	-12%		0.5	0.386	-0.114	-23%		0.5	0.480	-0.020	-4%		0.5	0.410	-0.090	-18%		
		40	0.5	0.428	-0.072	-14%		0.5	0.400	-0.100	-20%		0.5	0.450	-0.050	-10%		0.5	0.460	-0.040	-8%		
		45	0.5	0.496	-0.004	-1%		0.5	0.456	-0.044	-9%		0.5	0.458	-0.042	-8%		0.5	0.496	-0.004	-1%		
		50	0.5	0.428	-0.072	-14%		0.5	0.404	-0.096	-19%		0.5	DP									
		55	0.5	0.464	-0.036	-7%		0.5	0.438	-0.062	-12%		0.5	DP									
		60	0.5	0.484	-0.016	-3%		0.5	0.470	-0.030	-6%		0.5	0.470	-0.030	-6%		0.5	DP				
		65	0.5	0.442	-0.058	-12%		0.5	0.452	-0.048	-10%		0.5	0.480	-0.020	-4%		0.5	0.460	-0.040	-8%		
		70	0.5	DP				0.5	0.482	-0.018	-4%		0.5	DP				0.5	0.484	-0.016	-3%		
Centerline																							
EAST	Location (Distance From Wall in Feet)	70																					
		65	0.5	0.454	-0.046	-9%		0.5	0.456	-0.044	-9%		0.5	0.428	-0.072	-14%		0.5	0.468	-0.032	-6%		
		60	0.5	0.452	-0.048	-10%		0.5	0.460	-0.040	-8%		0.5	0.462	-0.038	-8%		0.5	0.454	-0.046	-9%		
		55	0.5	0.460	-0.040	-8%		0.5	0.476	-0.024	-5%		0.5	0.466	-0.034	-7%		0.5	0.474	-0.026	-5%		
		50	0.5	0.448	-0.052	-10%		0.5	0.464	-0.036	-7%		0.5	0.454	-0.046	-9%		0.5	0.506	0.006	1%		
		45	0.5	0.456	-0.044	-9%		0.5	0.478	-0.022	-4%		0.5	0.480	-0.020	-4%		0.5	0.470	-0.030	-6%		
		40	0.5	0.436	-0.064	-13%		0.5	0.470	-0.030	-6%		0.5	0.214	-0.286	-57%		0.5	0.466	-0.034	-7%		
		35	0.5	0.454	-0.046	-9%		0.5	0.466	-0.034	-7%		0.5	0.504	0.004	1%		0.5	0.352	-0.148	-30%		
		30	0.5	0.448	-0.052	-10%		0.5	0.456	-0.044	-9%		0.5	0.402	-0.098	-20%		0.5	0.442	-0.058	-12%		
		25	0.5	0.428	-0.072	-14%		0.5	0.480	-0.020	-4%		0.5	0.424	-0.076	-15%		0.5	0.452	-0.048	-10%		
		20	0.5	0.284	-0.216	-43%		0.5	0.464	-0.036	-7%		0.5	0.436	-0.064	-13%		0.5	0.464	-0.036	-7%		
		15	0.5	0.453	-0.047	-9%		0.5	0.238	-0.262	-52%		0.5	0.264	-0.236	-47%		0.5	0.188	-0.312	-62%		
		10	0.5	0.452	-0.048	-10%		0.5	0.242	-0.258	-52%		0.5	0.222	-0.278	-56%		0.5	0.342	-0.158	-32%		
		5	0.5	0.408	-0.092	-18%		0.5	0.322	-0.178	-36%		0.5	0.270	-0.230	-46%		0.5	0.376	-0.124	-25%		
BELT		Built	9	Diff	%		Built	10	Diff	%		Built	11	Diff	%		Built	12	Diff	%			

feet from Bow:

Appendix 2 Comparison: Pontoon Deck-Topside

< South

feet from Bow:

		65					70					75					80						
BELT		Built	13	Diff	%		Built	14	Diff	%		Built	15	Diff	%		Built	16	Diff	%			
WEST	Location (Distance From Wall in Feet)	5	0.5	0.508	0.008	2%		0.5	0.512	0.012	2%		0.5	0.512				0.5	0.514	0.014	3%		
		10	0.5	0.504	0.004	1%		0.5	0.502	0.002	0%		0.5	0.506				0.5	0.506	0.006	1%		
		15	0.5	0.322	-0.178	-36%		0.5	0.310	-0.190	-38%		0.5	0.508	0.008	2%		0.5	0.500	0.000	0%		
		20	0.5	0.176	-0.324	-65%		0.5	0.336	-0.164	-33%		0.5	0.394	-0.106	-21%		0.5	0.440	-0.060	-12%		
		25	0.5	0.458	-0.042	-8%		0.5	0.456	-0.044	-9%		0.5	0.294	-0.206	-41%		0.5	0.456	-0.044	-9%		
		30	0.5	0.440	-0.060	-12%		0.5	0.482	-0.018	-4%		0.5	0.545	0.045	9%		0.5	0.464	-0.036	-7%		
		35	0.5	0.482	-0.018	-4%		0.5	0.336	-0.164	-33%		0.5	0.486	-0.014	-3%		0.5	0.492	-0.008	-2%		
		40	0.5	0.460	-0.040	-8%		0.5	0.456	-0.044	-9%		0.5	0.404	-0.096	-19%		0.5	0.440	-0.060	-12%		
		45	0.5	0.476	-0.024	-5%		0.5	0.466	-0.034	-7%		0.5	DP				0.5	0.474	-0.026	-5%		
		50										0.5						0.5	0.480	-0.020	-4%		
													0.5										
												0.5											
								0.5	0.476	-0.024	-5%	0.5											
								0.5	0.460	-0.040	-8%	0.5											
						0.5	0.480	-0.020	-4%	0.5	DP					0.5							
Centerline																							
EAST	Location (Distance From Wall in Feet)	70																					
		65	0.5	0.428	-0.072	-14%		0.5	0.412	-0.088	-18%		0.5										
		60	0.5	0.448	-0.052	-10%		0.5	0.462	-0.038	-8%		0.5										
		55	0.5	0.474	-0.026	-5%		0.5	0.468	-0.032	-6%		0.5										
		50	0.5	0.468	-0.032	-6%		0.5	0.470	-0.030	-6%		0.5										
		45	0.5	0.482	-0.018	-4%		0.5	0.470	-0.030	-6%		0.5	0.474	-0.026	-5%		0.5	0.470	-0.030	-6%		
		40	0.5	0.466	-0.034	-7%		0.5	0.446	-0.054	-11%		0.5	0.364	-0.136	-27%		0.5	0.448	-0.052	-10%		
		35	0.5	0.462	-0.038	-8%		0.5	0.354	-0.146	-29%		0.5	0.452	-0.048	-10%		0.5	0.430	-0.070	-14%		
		30	0.5	0.452	-0.048	-10%		0.5	0.346	-0.154	-31%		0.5	0.454	-0.046	-9%		0.5	0.490	-0.010	-2%		
		25	0.5	0.382	-0.118	-24%		0.5	0.416	-0.084	-17%		0.5	0.438	-0.062	-12%		0.5	0.408	-0.092	-18%		
		20	0.5	0.456	-0.044	-9%		0.5	0.448	-0.052	-10%		0.5	0.398	-0.102	-20%		0.5	0.420	-0.080	-16%		
		15	0.5	DEBRIS				0.5	0.316	-0.184	-37%		0.5	0.436	-0.064	-13%		0.5	0.362	-0.138	-28%		
		10	0.5	DEBRIS				0.5	DEBRIS				0.5	0.406	-0.094	-19%		0.5	0.230	-0.270	-54%		
		5	0.5	0.220	-0.280	-56%		0.5	0.186	-0.314	-63%		0.5	0.288	-0.212	-42%		0.5	0.188	-0.312	-62%		
BELT		Built	13	Diff	%		Built	14	Diff	%		Built	15	Diff	%		Built	16	Diff	%			
feet from Bow:		65					70					75					80						

Appendix 2 Comparison: Pontoon Deck-Topside

< South

feet from Bow:

		85					90					95					100					
BELT		Built	17	Diff	%		Built	18	Diff	%		Built	19	Diff	%		Built	20	Diff	%		
WEST	Location (Distance From Wall in Feet)	5	0.5	0.516	0.016	3%		0.5	0.518	0.018	4%		0.5	0.518	0.018	4%		0.5	0.520	0.020	4%	
		10	0.5	0.512	0.012	2%		0.5	0.516	0.016	3%		0.5	0.512	0.012	2%		0.5	0.514	0.014	3%	
		15	0.5	0.262	-0.238	-48%		0.5	TP				0.5	0.394	-0.106	-21%		0.5	0.416	-0.084	-17%	
		20	0.5	0.486	-0.014	-3%		0.5	0.396	-0.104	-21%		0.5	0.500	0.000	0%		0.5	0.440	-0.060	-12%	
		25	0.5	0.468	-0.032	-6%		0.5	0.424	-0.076	-15%		0.5	0.516	0.016	3%		0.5	0.448	-0.052	-10%	
		30	0.5	0.350	-0.150	-30%		0.5	0.430	-0.070	-14%		0.5	0.448	-0.052	-10%		0.5	0.438	-0.062	-12%	
		35	0.5	0.478	-0.022	-4%		0.5	0.464	-0.036	-7%		0.5	0.416	-0.084	-17%		0.5	0.428	-0.072	-14%	
		40	0.5	0.452	-0.048	-10%		0.5	0.438	-0.062	-12%		0.5	0.460	-0.040	-8%		0.5	0.400	-0.100	-20%	
		45	0.5	0.460	-0.040	-8%		0.5	0.518	0.018	4%		0.5	0.462	-0.038	-8%		0.5	0.424	-0.076	-15%	
		50	0.5	0.462	-0.038	-8%		0.5	0.504	0.004	1%		0.5	0.518	0.018	4%		0.5	0.464	-0.036	-7%	
Centerline		DP																				
EAST	Location (Distance From Wall in Feet)	70																				
		65																				
		60																				
		55																				
		50	0.5	0.454	-0.046	-9%		0.5	0.178	-0.322	-64%		0.5	0.390	-0.110	-22%		0.5	0.458	-0.042	-8%	
		45	0.5	0.468	-0.032	-6%		0.5	0.450	-0.050	-10%		0.5	0.468	-0.032	-6%		0.5	0.428	-0.072	-14%	
		40	0.5	0.346	-0.154	-31%		0.5	0.438	-0.062	-12%		0.5	0.476	-0.024	-5%		0.5	0.456	-0.044	-9%	
		35	0.5	0.338	-0.162	-32%		0.5	0.432	-0.068	-14%		0.5	0.458	-0.042	-8%		0.5	0.462	-0.038	-8%	
		30	0.5	0.490	-0.010	-2%		0.5	0.368	-0.132	-26%		0.5	0.342	-0.158	-32%		0.5	0.300	-0.200	-40%	
		25	0.5	0.464	-0.036	-7%		0.5	0.408	-0.092	-18%		0.5	0.206	-0.294	-59%		0.5	0.408	-0.092	-18%	
20	0.5	0.340	-0.160	-32%		0.5	0.424	-0.076	-15%		0.5	DP										
15	0.5	0.438	-0.062	-12%		0.5	0.440	-0.060	-12%		0.5	0.322	-0.178	-36%		0.5	0.496	-0.004	-1%			
10	0.5	0.332	-0.168	-34%		0.5	0.330	-0.170	-34%		0.5	0.264	-0.236	-47%		0.5	0.326	-0.174	-35%			
5	0.5	0.172	-0.328	-66%		0.5	0.180	-0.320	-64%		0.5	0.238	-0.262	-52%		0.5	0.286	-0.214	-43%			
BELT		Built	17	Diff	%		Built	18	Diff	%		Built	19	Diff	%		Built	20	Diff	%		
feet from Bow:		85					90					95					100					

Appendix 2 Comparison: Pontoon Deck-Topside

< South

Feet from Bow:

BELT		105				110				115				120									
BELT		Built	21	Diff	%		Built	22	Diff	%		Built	23	Diff	%		Built	24	Diff	%			
WEST	Location (Distance From Wall in Feet)	5	0.5	0.518	0.018	4%		0.5	0.566	0.066	13%		0.5	0.518	0.018	4%		0.5	0.510	0.010	2%		
		10	0.5	0.512	0.012	2%		0.5	2.220	1.720	344%		0.5	2.200	1.700	340%		0.5	0.456	-0.044	-9%		
		15	0.5	0.408	-0.092	-18%		0.5	0.452	-0.048	-10%		0.5	0.398	-0.102	-20%		0.5	0.382	-0.118	-24%		
		20	0.5	0.474	-0.026	-5%		0.5	0.416	-0.084	-17%		0.5	0.440	-0.060	-12%		0.5	0.340	-0.160	-32%		
		25	0.5	0.422	-0.078	-16%		0.5	0.434	-0.066	-13%		0.5	0.490	-0.010	-2%		0.5	0.146	-0.354	-71%		
		30	0.5	0.498	-0.002	0%		0.5	0.416	-0.084	-17%		0.5	0.464	-0.036	-7%		0.5	0.426	-0.074	-15%		
		35	0.5	0.340	-0.160	-32%		0.5	0.404	-0.096	-19%		0.5	0.448	-0.052	-10%		0.5	0.312	-0.188	-38%		
		40	0.5	0.462	-0.038	-8%		0.5	0.420	-0.080	-16%		0.5	0.420	-0.080	-16%		0.5	0.000	-0.500	-100%		
		45	0.5	0.448	-0.052	-10%		0.5															
		50	0.5	0.404	-0.096	-19%		0.5															
55																							
60																							
65																							
Centerline																							
EAST	Location (Distance From Wall in Feet)	70																					
		65																					
		60																					
		55																					
		50	0.5	0.442	-0.058	-12%		0.5															
		45	0.5	0.462	-0.038	-8%		0.5															
		40	0.5	0.442	-0.058	-12%		0.5	0.170	-0.330	-66%		0.5	0.486	-0.014	-3%		0.5	0.458	-0.042	-8%		
		35	0.5	0.380	-0.120	-24%		0.5	0.452	-0.048	-10%		0.5	0.330	-0.170	-34%		0.5	0.412	-0.088	-18%		
		30	0.5	0.452	-0.048	-10%		0.5	0.402	-0.098	-20%		0.5	0.334	-0.166	-33%		0.5	0.416	-0.084	-17%		
		25	0.5	0.428	-0.072	-14%		0.5	0.250	-0.250	-50%		0.5	0.422	-0.078	-16%		0.5	0.246	-0.254	-51%		
20	0.5	0.264	-0.236	-47%		0.5	0.324	-0.176	-35%		0.5	0.398	-0.102	-20%		0.5	0.362	-0.138	-28%				
15	0.5	0.288	-0.212	-42%		0.5	0.492	-0.008	-2%		0.5	0.382	-0.118	-24%		0.5	0.370	-0.130	-26%				
10	0.5	0.252	-0.248	-50%		0.5	0.344	-0.156	-31%		0.5	0.242	-0.258	-52%		0.5	0.202	-0.298	-60%				
5	0.5	0.278	-0.222	-44%		0.5	0.250	-0.250	-50%		0.5	0.284	-0.216	-43%		0.5	0.274	-0.226	-45%				
BELT		Built	21	Diff	%		Built	22	Diff	%		Built	23	Diff	%		Built	24	Diff	%			
Feet from Bow:			105					110					115					120					

Appendix 2 Comparison: Pontoon Deck-Topside

< South
feet from Bow:

BELT		125				130				135				140					
BELT		Built	25	Diff	%	Built	26	Diff	%	Built	27	Diff	%	Built	28	Diff	%		
WEST	Location (Distance From Wall in Feet)	5	0.5	0.516	0.016	3%	0.5	0.492	-0.008	-2%	0.5	0.498	-0.002	0%	0.5	0.492	-0.008	-2%	
		10	0.5	0.308	-0.192	-38%	0.5	0.412	-0.088	-18%	0.5	0.504	0.004	1%	0.5	0.514	0.014	3%	
		15	0.5	0.146	-0.354	-71%	0.5	0.452	-0.048	-10%	0.5	0.508	0.008	2%	0.5	0.506	0.006	1%	
		20	0.5	0.260	-0.240	-48%	0.5	0.418	-0.082	-16%	0.5	0.458	-0.042	-8%	0.5	0.410	-0.090	-18%	
		25	0.5	0.510	0.010	2%	0.5	0.450	-0.050	-10%	0.5	0.460	-0.040	-8%	0.5	0.434	-0.066	-13%	
		30	0.5	0.474	-0.026	-5%	0.5	0.466	-0.034	-7%	0.5	0.400	-0.100	-20%	0.5	0.466	-0.034	-7%	
		35	0.5	0.478	-0.022	-4%	0.5	0.430	-0.070	-14%	0.5	DP			0.5	0.400	-0.100	-20%	
		40	0.5	0.444	-0.056	-11%	0.5	0.472	-0.028	-6%	0.5				0.5	0.588	0.088	18%	
		Centerline		DP															
		EAST	Location (Distance From Wall in Feet)	70	DP														
65	DP																		
60	DP																		
55	DP																		
50	DP																		
45	DP																		
40	0.5			0.506	0.006	1%	0.5	0.426	-0.074	-15%	0.5	0.416	-0.084	-17%	0.5	0.296	-0.204	-41%	
35	0.5			0.335	-0.165	-33%	0.5	0.468	-0.032	-6%	0.5	0.398	-0.102	-20%	0.5	0.368	-0.132	-26%	
30	0.5			0.422	-0.078	-16%	0.5	0.414	-0.086	-17%	0.5	0.438	-0.062	-12%	0.5	0.398	-0.102	-20%	
25	0.5			0.412	-0.088	-18%	0.5	0.222	-0.278	-56%	0.5	0.360	-0.140	-28%	0.5	0.298	-0.202	-40%	
20	0.5	0.402	-0.098	-20%	0.5	0.292	-0.208	-42%	0.5	0.250	-0.250	-50%	0.5	0.378	-0.122	-24%			
15	0.5	0.212	-0.288	-58%	0.5	0.186	-0.314	-63%	0.5	0.516	0.016	3%	0.5	0.500	0.000	0%			
10	0.5	0.292	-0.208	-42%	0.5	0.350	-0.150	-30%	0.5	0.510	0.010	2%	0.5	0.410	-0.090	-18%			
5	0.5	0.246	-0.254	-51%	0.5	0.194	-0.306	-61%	0.5	0.500	0.000	0%	0.5	0.496	-0.004	-1%			
BELT		Built	25	Diff	%	Built	26	Diff	%	Built	27	Diff	%	Built	28	Diff	%		
feet from Bow:		125				130				135				140					

Appendix 2 Comparison: Pontoon Deck-Topside

< South
feet from Bow:

BELT		Built	29	Diff	%		Built	30	Diff	%		Built	31	Diff	%		Built	32	Diff	%		
WEST	Location (Distance From Wall in Feet)	5	0.5	0.494	-0.006	-1%		0.5	0.496	-0.004	-1%		0.5	0.438	-0.062	-12%		0.5	0.494	-0.006	-1%	
		10	0.5	0.510	0.010	2%		0.5	0.512	0.012	2%		0.5	0.514	0.014	3%		0.5	0.492	-0.008	-2%	
		15	0.5	0.504	0.004	1%		0.5	0.506	0.006	1%		0.5	0.506	0.006	1%		0.5	0.492	-0.008	-2%	
		20	0.5	0.416	-0.084	-17%		0.5	0.382	-0.118	-24%		0.5	0.424	-0.076	-15%		0.5	0.404	-0.096	-19%	
		25	0.5	0.445	-0.055	-11%		0.5	0.558	0.058	12%		0.5	0.440	-0.060	-12%		0.5	0.342	-0.158	-32%	
		30	0.5	0.447	-0.053	-11%		0.5	0.416	-0.084	-17%		0.5	0.420	-0.080	-16%		0.5	0.446	-0.054	-11%	
		35	0.5	0.500	0.000	0%		0.5	0.556	0.056	11%		0.5	0.428	-0.072	-14%		0.5	0.344	-0.156	-31%	
		40	0.5																			
		45																				
		50																				
55																						
60																						
65																						
70																						
Centerline																						
EAST	Location (Distance From Wall in Feet)	70																				
		65																				
		60																				
		55																				
		50																				
		45																				
		40	0.5	0.366	-0.134	-27%		0.5	0.372	-0.128	-26%		0.5	0.388	-0.112	-22%		0.5	0.440	-0.060	-12%	
		35	0.5	0.325	-0.175	-35%		0.5	0.388	-0.112	-22%		0.5	0.396	-0.104	-21%		0.5	0.388	-0.112	-22%	
		30	0.5	0.374	-0.126	-25%		0.5	0.420	-0.080	-16%		0.5	0.408	-0.092	-18%		0.5	0.320	-0.180	-36%	
		25	0.5	0.382	-0.118	-24%		0.5	0.406	-0.094	-19%		0.5	0.332	-0.168	-34%		0.5	0.414	-0.086	-17%	
20	0.5	0.186	-0.314	-63%		0.5	0.286	-0.214	-43%		0.5	0.270	-0.230	-46%		0.5	0.422	-0.078	-16%			
15	0.5	0.502	0.002	0%		0.5	0.514	0.014	3%		0.5	0.514	0.014	3%		0.5	0.450	-0.050	-10%			
10	0.5	0.506	0.006	1%		0.5	0.514	0.014	3%		0.5	0.510	0.010	2%		0.5	0.510	0.010	2%			
5	0.5	0.502	0.002	0%		0.5	0.492	-0.008	-2%		0.5	0.498	-0.002	0%		0.5	0.494	-0.006	-1%			
BELT		Built	29	Diff	%		Built	30	Diff	%		Built	31	Diff	%		Built	32	Diff	%		
feet from Bow:			145				150					155					160					

Appendix 2 Comparison: Pontoon Deck-Topside

< South

Feet from Bow:

165

170

175

180

BELT		Built	33	Diff	%		Built	34	Diff	%		Built	35	Diff	%		Built	36	Diff	%																						
WEST	Location (Distance From Wall in Feet)	5	0.5	0.488	-0.012	-2%		0.5	0.490	-0.010	-2%		0.5	0.488	-0.012	-2%		0.5	0.492	-0.008	-2%																					
		10	0.5	0.496	-0.004	-1%		0.5	0.494	-0.006	-1%		0.5	0.496	-0.004	-1%		0.5	0.492	-0.008	-2%																					
		15	0.5	0.496	-0.004	-1%		0.5	0.492	-0.008	-2%		0.5	0.492	-0.008	-2%		0.5	0.494	-0.006	-1%																					
		20	0.5	0.404	-0.096	-19%		0.5	0.380	-0.120	-24%		0.5	0.420	-0.080	-16%		0.5	0.212	-0.288	-58%																					
		25	0.5	0.434	-0.066	-13%		0.5	0.408	-0.092	-18%		0.5	0.310	-0.190	-38%		0.5	0.396	-0.104	-21%																					
		30	0.5	0.298	-0.202	-40%		0.5	0.440	-0.060	-12%		0.5	0.382	-0.118	-24%		0.5	0.314	-0.186	-37%																					
		35	0.5	0.474	-0.026	-5%		0.5	0.300	-0.200	-40%		0.5	0.224	-0.276	-55%		0.5	0.428	-0.072	-14%																					
		40	DP																																							
		45																																								
		50																																								
55																																										
60																																										
65																																										
70																																										
Centerline																																										
EAST	Location (Distance From Wall in Feet)	70																																								
		65																																								
		60																																								
		55																																								
		50																																								
		45																																								
		40	0.5	0.398	-0.102	-20%		0.5	0.428	-0.072	-14%		0.5	0.424	-0.076	-15%		0.5	0.380	-0.120	-24%																					
		35	0.5	0.486	-0.014	-3%		0.5	0.412	-0.088	-18%		0.5	0.390	-0.110	-22%		0.5	0.556	0.056	11%																					
		30	0.5	0.446	-0.054	-11%		0.5	0.428	-0.072	-14%		0.5	0.436	-0.064	-13%		0.5	0.428	-0.072	-14%																					
		25	0.5	0.476	-0.024	-5%		0.5	0.412	-0.088	-18%		0.5	0.410	-0.090	-18%		0.5	0.446	-0.054	-11%																					
20	0.5	0.508	0.008	2%		0.5	0.416	-0.084	-17%		0.5	0.446	-0.054	-11%		0.5	0.442	-0.058	-12%																							
15	0.5	0.510	0.010	2%		0.5	0.516	0.016	3%		0.5	0.300	-0.200	-40%		0.5	0.420	-0.080	-16%																							
10	0.5	0.500	0.000	0%		0.5	0.510	0.010	2%		0.5	0.356	-0.144	-29%		0.5	0.442	-0.058	-12%																							
5	0.5	0.598	0.098	20%		0.5	0.496	-0.004	-1%		0.5	0.494	-0.006	-1%		0.5	0.498	-0.002	0%																							
BELT		Built	33	Diff	%		Built	34	Diff	%		Built	35	Diff	%		Built	36	Diff	%																						

Feet from Bow:

165

170

175

180

Appendix 2 Comparison: Pontoon Deck-Topside

< South
feet from Bow:

		185					190					195					200																									
BELT		Built	37	Diff	%		Built	38	Diff	%		Built	39	Diff	%		Built	40	Diff	%																						
WEST	Location (Distance From Wall in Feet)	5	0.5	0.492	-0.008	-2%		0.5	0.492	-0.008	-2%		0.5	0.486	-0.014	-3%		0.5	0.492	-0.008	-2%																					
		10	0.5	0.492	-0.008	-2%		0.5	0.494	-0.006	-1%		0.5	0.492	-0.008	-2%		0.5	0.412	-0.088	-18%																					
		15	0.5	0.492	-0.008	-2%		0.5	0.492	-0.008	-2%		0.5	0.490	-0.010	-2%		0.5	0.440	-0.060	-12%																					
		20	0.5	0.418	-0.082	-16%		0.5	0.168	-0.332	-66%		0.5	0.400	-0.100	-20%		0.5	0.492	-0.008	-2%																					
		25	0.5	0.416	-0.084	-17%		0.5	0.420	-0.080	-16%		0.5	0.419	-0.081	-16%		0.5	0.432	-0.068	-14%																					
		30	0.5	0.430	-0.070	-14%		0.5	0.412	-0.088	-18%		0.5	0.412	-0.088	-18%		0.5																								
		35	0.5	0.440	-0.060	-12%		0.5	0.456	-0.044	-9%		0.5	0.190	-0.310	-62%		0.5																								
		40																																								
		45																																								
		50																																								
55																																										
60																																										
65																																										
70																																										
Centerline																																										
EAST	Location (Distance From Wall in Feet)	70																																								
		65																																								
		60																																								
		55																																								
		50																																								
		45																																								
		40	0.5	0.398	-0.102	-20%		0.5	0.468	-0.032	-6%		0.5	0.400	-0.100	-20%		0.5	0.342	-0.158	-32%																					
		35	0.5	0.438	-0.062	-12%		0.5	0.316	-0.184	-37%		0.5	0.430	-0.070	-14%		0.5	0.350	-0.150	-30%																					
		30	0.5	0.440	-0.060	-12%		0.5	0.374	-0.126	-25%		0.5	0.448	-0.052	-10%		0.5	0.414	-0.086	-17%																					
		25	0.5	0.456	-0.044	-9%		0.5	0.406	-0.094	-19%		0.5	0.434	-0.066	-13%		0.5	0.210	-0.290	-58%																					
20	0.5	0.320	-0.180	-36%		0.5	0.460	-0.040	-8%		0.5	0.438	-0.062	-12%		0.5	0.400	-0.100	-20%																							
15	0.5	0.416	-0.084	-17%		0.5	0.442	-0.058	-12%		0.5	0.410	-0.090	-18%		0.5	0.408	-0.092	-18%																							
10	0.5	0.408	-0.092	-18%		0.5	0.440	-0.060	-12%		0.5	0.362	-0.138	-28%		0.5	0.408	-0.092	-18%																							
5	0.5	0.429	-0.071	-14%		0.5	0.494	-0.006	-1%		0.5	0.486	-0.014	-3%		0.5	0.429	-0.071	-14%																							
BELT		Built	37	Diff	%		Built	38	Diff	%		Built	39	Diff	%		Built	40	Diff	%																						
feet from Bow:		185					190					195					200																									

Appendix 2 Comparison: Pontoon Deck-Topside

< South

feet from Bow:

		205					210					215					220																								
BELT		Built	41	Diff	%		Built	42	Diff	%		Built	43	Diff	%		Built	44	Diff	%																					
WEST	Location (Distance From Wall in Feet)	5	0.5	0.488	-0.012	-2%		0.5	0.488	-0.012	-2%		0.5	0.492	-0.008	-2%		0.5	0.488	-0.012	-2%																				
		10	0.5	0.412	-0.088	-18%		0.5	0.441	-0.059	-12%		0.5	0.413	-0.087	-17%		0.5	0.428	-0.072	-14%																				
		15	0.5	0.448	-0.052	-10%		0.5	0.448	-0.052	-10%		0.5	0.406	-0.094	-19%		0.5	0.418	-0.082	-16%																				
		20	0.5	0.444	-0.056	-11%		0.5	0.418	-0.082	-16%		0.5	0.404	-0.096	-19%		0.5	0.450	-0.050	-10%																				
		25	0.5	0.374	-0.126	-25%		0.5	0.434	-0.066	-13%		0.5	0.422	-0.078	-16%		0.5	0.434	-0.066	-13%																				
		30	DP																																						
		35																																							
		40																																							
		45																																							
		50																																							
55																																									
60																																									
65																																									
70																																									
Centerline																																									
EAST	Location (Distance From Wall in Feet)	70	DP																																						
		65																																							
		60																																							
		55																																							
		50																																							
		45																																							
		40																					0.5	0.492	-0.008	-2%		0.5	0.402	-0.098	-20%		0.5	0.358	-0.142	-28%		0.5	0.242	-0.258	-52%
		35																					0.5	0.408	-0.092	-18%		0.5	0.416	-0.084	-17%		0.5	0.358	-0.142	-28%		0.5	0.224	-0.276	-55%
		30																					0.5	0.482	-0.018	-4%		0.5	0.410	-0.090	-18%		0.5	0.492	-0.008	-2%		0.5	0.486	-0.014	-3%
		25																					0.5	0.480	-0.020	-4%		0.5	0.416	-0.084	-17%		0.5	0.408	-0.092	-18%		0.5	0.355	-0.145	-29%
20	0.5	0.424	-0.076	-15%		0.5	0.260	-0.240	-48%		0.5	0.434	-0.066	-13%		0.5	0.314	-0.186	-37%																						
15	0.5	0.352	-0.148	-30%		0.5	0.430	-0.070	-14%		0.5	0.414	-0.086	-17%		0.5	0.330	-0.170	-34%																						
10	0.5	0.322	-0.178	-36%		0.5	0.330	-0.170	-34%		0.5	0.596	0.096	19%		0.5	0.456	-0.044	-9%																						
5	0.5	0.498	-0.002	0%		0.5	0.506	0.006	1%		0.5	0.484	-0.016	-3%		0.5	0.340	-0.160	-32%																						
BELT		Built	41	Diff	%		Built	42	Diff	%		Built	43	Diff	%		Built	44	Diff	%																					

feet from Bow:

205

210

215

220

Appendix 2 Comparison: Pontoon Deck-Topside

< South

Feet from Bow:

		225					230					235					240						
BELT		Built	45	Diff	%		Built	46	Diff	%		Built	47	Diff	%		Built	48	Diff	%			
WEST	Location (Distance From Wall in Feet)	5	0.5	0.492	-0.008	-2%		0.5	0.490	-0.010	-2%		0.5	0.492	-0.008	-2%		0.5	0.490	-0.010	-2%		
		10	0.5	0.426	-0.074	-15%		0.5	0.368	-0.132	-26%		0.5	0.376	-0.124	-25%		0.5	0.514	0.014	3%		
		15	0.5	0.338	-0.162	-32%		0.5	0.426	-0.074	-15%		0.5	0.488	-0.012	-2%		0.5	0.560	0.060	12%		
		20	0.5	0.404	-0.096	-19%		0.5	DP														
		25	0.5	4.280	3.780	756%		0.5															
		30																					
		35																					
		40																					
		45																					
		50																					
		55																					
		60																					
		65																					
70																							
Centerline																							
EAST	Location (Distance From Wall in Feet)	70																					
		65																					
		60																					
		55																					
		50																					
		45																					
		40	0.5	0.182	-0.318	-64%		0.5	0.268	-0.232	-46%		0.5	0.204	-0.296	-59%		0.5	0.354	-0.146	-29%		
		35	0.5	0.268	-0.232	-46%		0.5	0.368	-0.132	-26%		0.5	0.109	-0.391	-78%		0.5	0.296	-0.204	-41%		
		30	0.5	0.184	-0.316	-63%		0.5	0.136	-0.364	-73%		0.5	0.132	-0.368	-74%		0.5	0.632	0.132	26%		
25	0.5	0.384	-0.116	-23%		0.5	0.446	-0.054	-11%		0.5	0.420	-0.080	-16%		0.5	0.376	-0.124	-25%				
20	0.5	0.416	-0.084	-17%		0.5	0.438	-0.062	-12%		0.5	0.434	-0.066	-13%		0.5	0.346	-0.154	-31%				
15	0.5	0.304	-0.196	-39%		0.5	0.482	-0.018	-4%		0.5	0.428	-0.072	-14%		0.5	0.256	-0.244	-49%				
10	0.5	0.388	-0.112	-22%		0.5	0.432	-0.068	-14%		0.5	0.589	0.089	18%		0.5	0.228	-0.272	-54%				
5	0.5	0.280	-0.220	-44%		0.5	0.368	-0.132	-26%		0.5	0.486	-0.014	-3%		0.5	0.410	-0.090	-18%				
BELT		Built	45	Diff	%		Built	46	Diff	%		Built	47	Diff	%		Built	48	Diff	%			

Feet from Bow:

Appendix 2 Comparison: Pontoon Deck-Topside

< South

Feet from Bow:

		245					250					255					260					
BELT		Built	49	Diff	%		Built	50	Diff	%		Built	51	Diff	%		Built	52	Diff	%		
WEST	Location (Distance From Wall in Feet)	5	0.5	0.516	0.016	3%		0.5	0.492	-0.008	-2%		0.5	0.492	-0.008	-2%		0.5	0.488	-0.012	-2%	
		10	0.5	0.494	-0.006	-1%		0.5	0.496	-0.004	-1%		0.5	0.492	-0.008	-2%		0.5	0.492	-0.008	-2%	
		15	0.5	0.386	-0.114	-23%		0.5	0.460	-0.040	-8%		0.5	0.394	-0.106	-21%		0.5	0.396	-0.104	-21%	
		20																				
		25																				
		30																				
		35																				
		40																				
		45																				
		50																				
		55																				
		60																				
		65																				
		70																				
Centerline																						
EAST	Location (Distance From Wall in Feet)	70																				
		65																				
		60																				
		55																				
		50																				
		45																				
		40	0.5	0.232	-0.268	-54%		0.5														
		35	0.5	0.246	-0.254	-51%		0.5														
		30	0.5	0.448	-0.052	-10%		0.5	0.260	-0.240	-48%		0.5	0.126	-0.374	-75%		0.5	0.442	-0.058	-12%	
		25	0.5	0.256	-0.244	-49%		0.5	0.350	-0.150	-30%		0.5	0.310	-0.190	-38%		0.5	0.138	-0.362	-72%	
20	0.5	0.532	0.032	6%		0.5	0.408	-0.092	-18%		0.5	0.126	-0.374	-75%		0.5	0.460	-0.040	-8%			
15	0.5	0.402	-0.098	-20%		0.5	0.408	-0.092	-18%		0.5	0.184	-0.316	-63%		0.5	0.202	-0.298	-60%			
10	0.5	0.122	-0.378	-76%		0.5	0.274	-0.226	-45%		0.5	0.132	-0.368	-74%		0.5	0.232	-0.268	-54%			
5	0.5	0.339	-0.161	-32%		0.5	0.468	-0.032	-6%		0.5	0.256	-0.244	-49%		0.5	0.136	-0.364	-73%			
BELT		Built	49	Diff	%		Built	50	Diff	%		Built	51	Diff	%		Built	52	Diff	%		

Feet from Bow:

245

250

255

260

Appendix 2 Comparison: Pontoon Deck-Topside

< South

Feet from Bow:

		265				270				275				280																				
BELT		Built	53	Diff	%	Built	54	Diff	%	Built	55	Diff	%	Built	56	Diff	%																	
WEST	Location (Distance From Wall in Feet)	5	0.5	0.516	0.016	3%	0.5	0.492	-0.008	-2%	0.5	0.490	-0.010	-2%	0.5	0.488	-0.012	-2%																
		10	0.5	0.490	-0.010	-2%	0.5	0.488	-0.012	-2%	0.5	0.492	-0.008	-2%	0.5	0.492	-0.008	-2%																
		15	0.5	0.442	-0.058	-12%	0.5	0.394	-0.106	-21%	0.5	0.402	-0.098	-20%	0.5	0.430	-0.070	-14%																
		20																																
		25																																
		30																																
		35																																
		40																																
		45																																
		50																																
55																																		
60																																		
65																																		
70																																		
Centerline																																		
EAST																																	Location (Distance From Wall in Feet)	70
																																		65
	60																																	
	55																																	
	50																																	
	45																																	
	40																																	
35																																		
30																	0.5	0.434	-0.066	-13%	0.5	0.130	-0.370	-74%	0.5	0.308	-0.192	-38%	0.5	0.424	-0.076	-15%		
25																	0.5	0.148	-0.352	-70%	0.5	0.448	-0.052	-10%	0.5	0.436	-0.064	-13%	0.5	0.424	-0.076	-15%		
20																	0.5	0.206	-0.294	-59%	0.5	0.178	-0.322	-64%	0.5	0.438	-0.062	-12%	0.5	0.390	-0.110	-22%		
15																	0.5	0.304	-0.196	-39%	0.5	0.136	-0.364	-73%	0.5	0.420	-0.080	-16%	0.5	0.350	-0.150	-30%		
10																	0.5	0.132	-0.368	-74%	0.5	0.206	-0.294	-59%	0.5	DP			0.5	0.278	-0.222	-44%		
5																	0.5	0.254	-0.246	-49%	0.5	0.594	0.094	19%	0.5	0.412	-0.088	-18%	0.5	0.398	-0.102	-20%		
BELT		Built	53	Diff	%	Built	54	Diff	%	Built	55	Diff	%	Built	56	Diff	%																	

Feet from Bow:

265

270

275

280

Appendix 2 Comparison: Pontoon Deck-Topside

< South

Feet from Bow:

BELT		285				290				295				300																												
BELT		Built	57	Diff	%		Built	58	Diff	%		Built	59	Diff	%		Built	60	Diff	%																						
WEST	Location (Distance From Wall in Feet)	5	0.5	0.502	0.002	0%		0.5	0.502	0.002	0%		0.5	0.510	0.010	2%		0.5	0.500	0.000	0%																					
		10	0.5	0.396	-0.104	-21%		0.5	0.426	-0.074	-15%		0.5	0.396	-0.104	-21%		0.5	0.296	-0.204	-41%																					
		15	0.5	0.302	-0.198	-40%		0.5	0.408	-0.092	-18%		0.5	0.398	-0.102	-20%		0.5	0.422	-0.078	-16%																					
		20	DP																																							
		25																																								
		30																																								
		35																																								
		40																																								
		45																																								
		50																																								
55																																										
60																																										
65																																										
70																																										
Centerline																																										
EAST	Location (Distance From Wall in Feet)	70																																								
		65																																								
		60																																								
		55																																								
		50																																								
		45																																								
		40																																								
		35																																								
		30																					0.5	0.498	-0.002	0%		0.5	0.436	-0.064	-13%		0.5	0.460	-0.040	-8%		0.5	0.438	-0.062	-12%	
		25																					0.5	0.420	-0.080	-16%		0.5	0.454	-0.046	-9%		0.5	0.470	-0.030	-6%		0.5	0.314	-0.186	-37%	
20	0.5	0.408	-0.092	-18%		0.5	0.192	-0.308	-62%		0.5	0.456	-0.044	-9%		0.5	0.494	-0.006	-1%																							
15	0.5	0.442	-0.058	-12%		0.5	0.430	-0.070	-14%		0.5	0.382	-0.118	-24%		0.5	0.430	-0.070	-14%																							
10	0.5	0.428	-0.072	-14%		0.5	0.414	-0.086	-17%		0.5	0.498	-0.002	0%		0.5	0.386	-0.114	-23%																							
5	0.5	0.310	-0.190	-38%		0.5	0.486	-0.014	-3%		0.5	0.476	-0.024	-5%		0.5	0.486	-0.014	-3%																							
BELT		Built	57	Diff	%		Built	58	Diff	%		Built	59	Diff	%		Built	60	Diff	%																						
Feet from Bow:		285				290				295				300																												

Appendix 2 Comparison: Pontoon Deck-Topside

		< 305					310					315					320																									
feet from Bow:		Built	61	Diff	%		Built	62	Diff	%		Built	63	Diff	%		Built	64	Diff	%																						
WEST	Location (Distance From Wall in Feet)	5	0.5	0.506	0.006	1%		0.5	0.500	0.000	0%		0.5	0.506	0.006	1%		0.5																								
		10	0.5	0.434	-0.066	-13%		0.5	0.396	-0.104	-21%		0.5	0.424	-0.076	-15%		0.5	0.390	-0.110	-22%																					
		15	0.5	0.460	-0.040	-8%		0.5	0.416	-0.084	-17%		0.5	0.410	-0.090	-18%		0.5	0.426	-0.074	-15%																					
		20																																								
		25																																								
		30																																								
		35																																								
		40																																								
		45																																								
		50																																								
55																																										
60																																										
65																																										
70																																										
Centerline																																										
EAST	Location (Distance From Wall in Feet)	70																																								
		65																																								
		60																																								
		55																																								
		50																																								
		45																																								
		40																																								
		35																																								
		30																					0.5	0.428	-0.072	-14%		0.5	0.354	-0.146	-29%		0.5	0.296	-0.204	-41%		0.5	0.354	-0.146	-29%	
		25																					0.5	0.444	-0.056	-11%		0.5	0.264	-0.236	-47%		0.5	DP				0.5	0.358	-0.142	-28%	
20	0.5	0.255	-0.245	-49%		0.5	0.358	-0.142	-28%		0.5	0.354	-0.146	-29%		0.5	0.296	-0.204	-41%																							
15	0.5	0.252	-0.248	-50%		0.5	0.230	-0.270	-54%		0.5	0.456	-0.044	-9%		0.5	0.384	-0.116	-23%																							
10	0.5	0.350	-0.150	-30%		0.5	0.280	-0.220	-44%		0.5	0.344	-0.156	-31%		0.5	0.355	-0.145	-29%																							
5	0.5	0.488	-0.012	-2%		0.5	0.488	-0.012	-2%		0.5	0.354	-0.146	-29%		0.5	0.350	-0.150	-30%																							
BELT		Built	61	Diff	%		Built	62	Diff	%		Built	63	Diff	%		Built	64	Diff	%																						
feet from Bow:		305					310					315					320																									

Appendix 2 Comparison: Pontoon Deck-Topside

< South
feet from Bow:

BELT		325				330				335				340				
BELT		Built	65	Diff	%	Built	66	Diff	%	Built	67	Diff	%	Built	68	Diff	%	
WEST	Location (Distance From Wall in Feet)	5	TP															
		10	0.5	0.422	-0.078	-16%	0.5	0.434	-0.066	-13%	0.5	0.410	-0.090	-18%	0.5	0.400	-0.100	-20%
		15	0.5	0.428	-0.072	-14%	0.5	0.418	-0.082	-16%	0.5	0.430	-0.070	-14%	0.5	0.440	-0.060	-12%
		20																
		25																
		30																
		35																
		40																
		45																
		50																
		55																
		60																
		65																
		70																
Centerline																		
EAST	Location (Distance From Wall in Feet)	70																
		65																
		60																
		55																
		50																
		45																
		40																
		35																
		30	0.5	0.342	-0.158	-32%	0.5	0.356	-0.144	-29%	0.5	0.206	-0.294	-59%	0.5	0.350	-0.150	-30%
		25	0.5	0.190	-0.310	-62%	0.5	0.354	-0.146	-29%	0.5	0.302	-0.198	-40%	0.5	0.348	-0.152	-30%
20	0.5	0.354	-0.146	-29%	0.5	0.342	-0.158	-32%	0.5	0.348	-0.152	-30%	0.5	0.346	-0.154	-31%		
15	0.5	0.296	-0.204	-41%	0.5	0.358	-0.142	-28%	0.5	0.354	-0.146	-29%	0.5	0.352	-0.148	-30%		
10	0.5	0.350	-0.150	-30%	0.5	0.286	-0.214	-43%	0.5	0.350	-0.150	-30%	0.5	0.356	-0.144	-29%		
5	0.5	0.286	-0.214	-43%	0.5	0.442	-0.058	-12%	0.5	0.302	-0.198	-40%	0.5	0.364	-0.136	-27%		
BELT		Built	65	Diff	%	Built	66	Diff	%	Built	67	Diff	%	Built	68	Diff	%	
feet from Bow:		325				330				335				340				

Appendix 2 Comparison: Pontoon Deck-Topside

< South

Feet from Bow:

BELT		345				350				355				360								
BELT		Built	69	Diff	%		Built	70	Diff	%		Built	71	Diff	%		Built	72	Diff	%		
WEST	Location (Distance From Wall in Feet)	5																				
		10	0.5	0.444	-0.056	-11%		0.5	0.340	-0.160	-32%		0.5									
		15	0.5	0.376	-0.124	-25%		0.5	0.348	-0.152	-30%		0.5									
		20																				
		25																				
		30																				
		35																				
		40																				
		45																				
		50																				
		55																				
		60																				
		65																				
70																						
Centerline																						
EAST	Location (Distance From Wall in Feet)	70																				
		65																				
		60																				
		55																				
		50																				
		45																				
		40																				
		35																				
		30	0.5	0.242	-0.258	-52%		0.5	0.364	-0.136	-27%		0.5	0.288	-0.212	-42%		0.5	0.274	-0.226	-45%	
		25	0.5	0.412	-0.088	-18%		0.5	DP				0.5	0.356	-0.144	-29%		0.5	0.354	-0.146	-29%	
20	0.5	0.350	-0.150	-30%		0.5	0.362	-0.138	-28%		0.5	0.286	-0.214	-43%		0.5	0.206	-0.294	-59%			
15	0.5	0.288	-0.212	-42%		0.5	0.344	-0.156	-31%		0.5	0.354	-0.146	-29%		0.5	0.354	-0.146	-29%			
10	0.5	0.364	-0.136	-27%		0.5	0.202	-0.298	-60%		0.5	0.408	-0.092	-18%		0.5	0.480	-0.020	-4%			
5	0.5	0.292	-0.208	-42%		0.5	0.452	-0.048	-10%		0.5	0.524	0.024	5%		0.5	0.350	-0.150	-30%			
BELT		Built	69	Diff	%		Built	70	Diff	%		Built	71	Diff	%		Built	72	Diff	%		

Feet from Bow:

345

350

355

360

Appendix 2 Comparison: Pontoon Deck-Topside

< South

Feet from Bow: 365 370 375 380 385 390 395 400 405 410 415 420 425 430 435 440 445 450 455 460

BELT		Built	73	Diff	%		Built	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92				
WEST	Location (Distance From Wall in Feet)	5																												
		10																												
		15																												
		20																												
		25																												
		30																												
		35																												
		40																												
		45																												
		50																												
		55																												
		60																												
		65																												
		70																												
Centerline																														
EAST	Location (Distance From Wall in Feet)	70																												
		65																												
		60																												
		55																												
		50																												
		45																												
		40																												
		35																												
		30	0.5	0.356	-0.144	-29%		0.5																						
		25	0.5	0.356	-0.144	-29%		0.5																						
		20	0.5	0.348	-0.152	-30%		0.5																						
		15	0.5	0.288	-0.212	-42%		0.5																						
		10	0.5	0.296	-0.204	-41%		0.5																						
		5	0.5	0.244	-0.256	-51%		0.5																						
BELT		Built	73	Diff	%		Built	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92				

Feet from Bow: 365 370 375 380 385 390 395 400 405 410 415 420 425 430 435 440 445 450 455 460

Appendix 2 Comparison: Pontoon Deck-Topside

< South

Feet from Bow: 465 470 475 480 485 490 495 500 505 510 515 520 525 530 535 540 545 550 555 560 565 570 575 580 585 590 595

BELT			93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119
WEST	Location (Distance From Wall in Feet)	5	DP																										
		10																											
		15																											
		20																											
		25																											
		30																											
		35																											
		40																											
		45																											
		50																											
		55																											
		60																											
		65																											
		70																											
Centerline																													
EAST	Location (Distance From Wall in Feet)	70	DP																										
		65																											
		60																											
		55																											
		50																											
		45																											
		40																											
		35																											
		30																											
		25																											
		20																											
		15																											
		10																											
		5																											
BELT			93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119

Feet from Bow: 465 470 475 480 485 490 495 500 505 510 515 520 525 530 535 540 545 550 555 560 565 570 575 580 585 590 595

Appendix 2 Comparison: Pontoon Deck-Topside

< South

Feet from Bow: 600 605 610 615 620 625 630

635

640

645

BELT		120	121	122	123	124	125	126		Built	127	Diff	%		Built	128	Diff	%		Built	129	Diff	%						
WEST	Location (Distance From Wall in Feet)	5									0.5	0.492	-0.008	-2%		0.5	0.256	-0.244	-49%		0.5	0.252	-0.248	-50%					
		10									0.5	0.444	-0.056	-11%		0.5	0.300	-0.200	-40%		0.5	0.424	-0.076	-15%					
		15									0.5	0.400	-0.100	-20%		0.5	0.490	-0.010	-2%		0.5	0.438	-0.062	-12%					
		20									0.5	0.319	-0.181	-36%		0.5	0.270	-0.230	-46%		0.5	0.328	-0.172	-34%					
		25														0.5													
		30														0.5													
		35														0.5													
		40														0.5													
		45																											
		50																											
55																													
60																													
65																													
70																													
Centerline																													
EAST	Location (Distance From Wall in Feet)	70									DP																		
		65																											
		60																											
		55																											
		50																											
		45																											
		40																					0.5						
		35																					0.5						
		30																					0.5						
		25																					0.5						
20														0.5	0.440	-0.060	-12%		0.5	0.420	-0.080	-16%							
15														0.5	0.442	-0.058	-12%		0.5	0.408	-0.092	-18%							
10														0.5	0.502	0.002	0%		0.5	0.476	-0.024	-5%							
5														0.5	0.506	0.006	1%		0.5	0.500	0.000	0%							
BELT		120	121	122	123	124	125	126		Built	127	Diff	%		Built	128	Diff	%		Built	129	Diff	%						

Feet from Bow: 600 605 610 615 620 625 630

635

640

645

Appendix 2 Comparison: Pontoon Deck-Topside

< South

Feet from Bow:

		650					655					660					665					
BELT		Built	130	Diff	%		Built	131	Diff	%		Built	132	Diff	%		Built	133	Diff	%		
WEST	Location (Distance From Wall in Feet)	5	0.5	0.250	-0.250	-50%		0.5	0.251	-0.249	-50%		0.5	0.204	-0.296	-59%		0.5	DP			
		10	0.5	0.264	-0.236	-47%		0.5	0.420	-0.080	-16%		0.5	0.168	-0.332	-66%		0.5	0.426	-0.074	-15%	
		15	0.5	0.140	-0.360	-72%		0.5	0.300	-0.200	-40%		0.5	0.426	-0.074	-15%		0.5	0.222	-0.278	-56%	
		20	0.5	0.380	-0.120	-24%		0.5	0.202	-0.298	-60%		0.5	0.210	-0.290	-58%		0.5	0.376	-0.124	-25%	
		25																				
		30																				
		35																				
		40																				
		45																				
		50																				
55																						
60																						
65																						
70																						
Centerline																						
EAST	Location (Distance From Wall in Feet)	70																				
		65																				
		60																				
		55																				
		50																				
		45																				
		40																				
		35																				
		30																				
		25																				
20	0.5	0.468	-0.032	-6%		0.5	0.480	-0.020	-4%		0.5	0.414	-0.086	-17%		0.5	0.412	-0.088	-18%			
15	0.5	0.452	-0.048	-10%		0.5	0.286	-0.214	-43%		0.5	0.430	-0.070	-14%		0.5	0.178	-0.322	-64%			
10	0.5	0.416	-0.084	-17%		0.5	0.410	-0.090	-18%		0.5	0.372	-0.128	-26%		0.5	0.474	-0.026	-5%			
5	0.5	0.500	0.000	0%		0.5	0.512	0.012	2%		0.5	0.510	0.010	2%		0.5	0.506	0.006	1%			
BELT		Built	130	Diff	%		Built	131	Diff	%		Built	132	Diff	%		Built	133	Diff	%		
Feet from Bow:		650					655					660					665					

Appendix 2 Comparison: Pontoon Deck-Topside

< South

feet from Bow:

BELT		670				675				680				685					
BELT		Built	134	Diff	%	Built	135	Diff	%	Built	136	Diff	%	Built	137	Diff	%		
WEST	Location (Distance From Wall in Feet)	5	0.5	DP			0.5	DP			0.5	0.256	-0.244	-49%	0.5	0.358	-0.142	-28%	
		10	0.5	0.400	-0.100	-20%	0.5	0.452	-0.048	-10%	0.5	0.450	-0.050	-10%	0.5	0.470	-0.030	-6%	
		15	0.5	0.382	-0.118	-24%	0.5	0.296	-0.204	-41%	0.5	0.430	-0.070	-14%	0.5	0.244	-0.256	-51%	
		20	0.5	0.392	-0.108	-22%	0.5	0.448	-0.052	-10%	0.5	0.398	-0.102	-20%	0.5	0.462	-0.038	-8%	
		25																	
		30																	
		35																	
		40																	
		45																	
		50																	
55																			
60																			
65																			
70																			
Centerline																			
EAST	Location (Distance From Wall in Feet)	70																	
		65																	
		60																	
		55																	
		50																	
		45																	
		40																	
		35																	
30																			
25																			
20	0.5	0.408	-0.092	-18%	0.5	0.430	-0.070	-14%	0.5	0.462	-0.038	-8%	0.5	0.419	-0.081	-16%			
15	0.5	0.500	0.000	0%	0.5	0.456	-0.044	-9%	0.5	0.500	0.000	0%	0.5	0.474	-0.026	-5%			
10	0.5	0.412	-0.088	-18%	0.5	0.382	-0.118	-24%	0.5	0.352	-0.148	-30%	0.5	0.480	-0.020	-4%			
5	0.5	0.502	0.002	0%	0.5	0.502	0.002	0%	0.5	0.316	-0.184	-37%	0.5	0.262	-0.238	-48%			
BELT		Built	134	Diff	%	Built	135	Diff	%	Built	136	Diff	%	Built	137	Diff	%		
feet from Bow:		670				675				680				685					

Appendix 2 Comparison: Pontoon Deck-Topside

< South

Feet from Bow:

		690					695					700					705					
BELT		Built	138	Diff	%		Built	139	Diff	%		Built	140	Diff	%		Built	141	Diff	%		
WEST	Location (Distance From Wall in Feet)	5	0.5	0.388	-0.112	-22%		0.5	0.322	-0.178	-36%		0.5	0.394	-0.106	-21%		0.5	0.346	-0.154	-31%	
		10	0.5	0.460	-0.040	-8%		0.5	0.208	-0.292	-58%		0.5	0.360	-0.140	-28%		0.5	0.240	-0.260	-52%	
		15	0.5	0.486	-0.014	-3%		0.5	0.346	-0.154	-31%		0.5	0.420	-0.080	-16%		0.5	0.380	-0.120	-24%	
		20	0.5	0.440	-0.060	-12%		0.5	0.198	-0.302	-60%		0.5	0.426	-0.074	-15%		0.5	0.366	-0.134	-27%	
		25																				
		30																				
		35																				
		40																				
		45																				
		50																				
		55																				
		60																				
		65																				
		70																				
Centerline																						
EAST	Location (Distance From Wall in Feet)	70																				
		65																				
		60																				
		55																				
		50																				
		45																				
		40																				
		35																				
		30																				
		25																				
20	0.5	0.342	-0.158	-32%		0.5	0.494	-0.006	-1%		0.5	0.354	-0.146	-29%		0.5	0.488	-0.012	-2%			
15	0.5	0.470	-0.030	-6%		0.5	0.424	-0.076	-15%		0.5	0.440	-0.060	-12%		0.5	0.416	-0.084	-17%			
10	0.5	0.290	-0.210	-42%		0.5	0.486	-0.014	-3%		0.5	0.282	-0.218	-44%		0.5	0.322	-0.178	-36%			
5	0.5	0.386	-0.114	-23%		0.5	0.284	-0.216	-43%		0.5	0.322	-0.178	-36%		0.5	0.284	-0.216	-43%			
BELT		Built	138	Diff	%		Built	139	Diff	%		Built	140	Diff	%		Built	141	Diff	%		

Feet from Bow:

Appendix 2 Comparison: Pontoon Deck-Topside

< South

Feet from Bow:

		710					715					720					725					
BELT		Built	142	Diff	%		Built	143	Diff	%		Built	144	Diff	%		Built	145	Diff	%		
WEST	Location (Distance From Wall in Feet)	5	0.5	0.222	-0.278	-56%		0.5	0.340	-0.160	-32%		0.5	0.156	-0.344	-69%		0.5	0.370	-0.130	-26%	
		10	0.5	0.452	-0.048	-10%		0.5	0.440	-0.060	-12%		0.5	0.470	-0.030	-6%		0.5	0.411	-0.089	-18%	
		15	0.5	0.316	-0.184	-37%		0.5	0.426	-0.074	-15%		0.5	0.454	-0.046	-9%		0.5	0.386	-0.114	-23%	
		20	0.5	0.400	-0.100	-20%		0.5	0.340	-0.160	-32%		0.5	0.440	-0.060	-12%		0.5	0.380	-0.120	-24%	
		25	DP																			
		30																				
		35																				
		40																				
		45																				
		50																				
		55																				
		60																				
65																						
70																						
Centerline																						
EAST	Location (Distance From Wall in Feet)	70																				
		65																				
		60																				
		55																				
		50																				
		45																				
		40																				
		35																				
		30																				
		25																				
20	0.5	0.470	-0.030	-6%		0.5	0.444	-0.056	-11%		0.5	0.417	-0.083	-17%		0.5	0.386	-0.114	-23%			
15	0.5	0.426	-0.074	-15%		0.5	0.444	-0.056	-11%		0.5	0.440	-0.060	-12%		0.5	0.244	-0.256	-51%			
10	0.5	0.302	-0.198	-40%		0.5	0.450	-0.050	-10%		0.5	0.250	-0.250	-50%		0.5	0.382	-0.118	-24%			
5	0.5	0.476	-0.024	-5%		0.5	0.360	-0.140	-28%		0.5	0.300	-0.200	-40%		0.5	0.334	-0.166	-33%			
BELT		Built	142	Diff	%		Built	143	Diff	%		Built	144	Diff	%		Built	145	Diff	%		
		710					715					720					725					

Appendix 2 Comparison: Pontoon Deck-Topside

< South
feet from Bow:

		730					735					740					745					
BELT		Built	146	Diff	%		Built	147	Diff	%		Built	148	Diff	%		Built	149	Diff	%		
WEST	Location (Distance From Wall in Feet)	5	0.5	0.321	-0.179	-36%		0.5	0.316	-0.184	-37%		0.5	0.318	-0.182	-36%		0.5	0.364	-0.136	-27%	
		10	0.5	0.400	-0.100	-20%		0.5	0.462	-0.038	-8%		0.5	0.310	-0.190	-38%		0.5	0.352	-0.148	-30%	
		15	0.5	0.367	-0.133	-27%		0.5	0.460	-0.040	-8%		0.5	0.400	-0.100	-20%		0.5	0.415	-0.085	-17%	
		20	0.5	0.352	-0.148	-30%		0.5	0.132	-0.368	-74%		0.5	0.386	-0.114	-23%		0.5	0.310	-0.190	-38%	
		25																				
		30																				
		35																				
		40																				
		45																				
		50																				
		55																				
		60																				
		65																				
		70																				
Centerline																						
EAST	Location (Distance From Wall in Feet)	70																				
		65																				
		60																				
		55																				
		50																				
		45																				
		40																				
		35																				
		30																				
		25																				
20	0.5	0.470	-0.030	-6%		0.5	0.452	-0.048	-10%		0.5	0.264	-0.236	-47%		0.5	0.466	-0.034	-7%			
15	0.5	0.346	-0.154	-31%		0.5	0.382	-0.118	-24%		0.5	0.214	-0.286	-57%		0.5	0.276	-0.224	-45%			
10	0.5	0.312	-0.188	-38%		0.5	0.372	-0.128	-26%		0.5	0.266	-0.234	-47%		0.5	0.392	-0.108	-22%			
5	0.5	0.280	-0.220	-44%		0.5	0.238	-0.262	-52%		0.5	0.278	-0.222	-44%		0.5	0.182	-0.318	-64%			
BELT		Built	146	Diff	%		Built	147	Diff	%		Built	148	Diff	%		Built	149	Diff	%		
		730					735					740					745					

Appendix 2 Comparison: Pontoon Deck-Topside

< South

Feet from Bow:

BELT		750					755					760					765					
BELT		Built	150	Diff	%		Built	151	Diff	%		Built	152	Diff	%		Built	153	Diff	%		
WEST	Location (Distance From Wall in Feet)	5	0.5	0.316	-0.184	-37%		0.5	0.296	-0.204	-41%		0.5	DP				0.5	DP			
		10	0.5	0.344	-0.156	-31%		0.5	0.276	-0.224	-45%		0.5	0.196	-0.304	-61%		0.5	0.450	-0.050	-10%	
		15	0.5	0.422	-0.078	-16%		0.5	0.448	-0.052	-10%		0.5	0.470	-0.030	-6%		0.5	0.326	-0.174	-35%	
		20	0.5	0.400	-0.100	-20%		0.5	0.442	-0.058	-12%		0.5	0.226	-0.274	-55%		0.5	0.386	-0.114	-23%	
		25																				
		30																				
		35																				
		40																				
		45																				
		50																				
		55																				
		60																				
		65																				
		70																				
Centerline																						
EAST	Location (Distance From Wall in Feet)	70																				
		65																				
		60																				
		55																				
		50																				
		45																				
		40																				
		35																				
		30																				
		25																				
20	0.5	0.456	-0.044	-9%		0.5	0.380	-0.120	-24%		0.5	0.244	-0.256	-51%		0.5	0.426	-0.074	-15%			
15	0.5	0.156	-0.344	-69%		0.5	0.356	-0.144	-29%		0.5	0.386	-0.114	-23%		0.5	0.332	-0.168	-34%			
10	0.5	0.320	-0.180	-36%		0.5	0.470	-0.030	-6%		0.5	TP				0.5	TP					
5	0.5	0.186	-0.314	-63%		0.5	0.346	-0.154	-31%		0.5	0.246	-0.254	-51%		0.5	TP					
BELT		Built	150	Diff	%		Built	151	Diff	%		Built	152	Diff	%		Built	153	Diff	%		

Feet from Bow:

Appendix 2 Comparison: Pontoon Deck-Topside

< South

Feet from Bow:

BELT		770					775					780					785					
BELT		Built	154	Diff	%		Built	155	Diff	%		Built	156	Diff	%		Built	157	Diff	%		
WEST	Location (Distance From Wall in Feet)	5	0.5	DP			0.5	DP				0.5	0.230	-0.270	-54%		0.5	0.350	-0.150	-30%		
		10	0.5	DP			0.5	0.472	-0.028	-6%		0.5	0.452	-0.048	-10%		0.5	0.384	-0.116	-23%		
		15	0.5	0.196	-0.304	-61%		0.5	0.476	-0.024	-5%		0.5	0.412	-0.088	-18%		0.5	0.410	-0.090	-18%	
		20	0.5	0.222	-0.278	-56%		0.5	0.422	-0.078	-16%		0.5	0.480	-0.020	-4%		0.5	0.486	-0.014	-3%	
		25																				
		30																				
		35																				
		40																				
		45																				
		50																				
55																						
60																						
65																						
70																						
Centerline																						
EAST	Location (Distance From Wall in Feet)	70																				
		65																				
		60																				
		55																				
		50																				
		45																				
		40																				
		35																				
		30																				
		25																				
20	0.5	0.460	-0.040	-8%		0.5	0.410	-0.090	-18%		0.5	0.410	-0.090	-18%		0.5	0.470	-0.030	-6%			
15	0.5	DP				0.5	0.398	-0.102	-20%		0.5	0.386	-0.114	-23%		0.5						
10	0.5	DP				0.5	0.460	-0.040	-8%		0.5	0.222	-0.278	-56%		0.5						0.486
5	0.5	0.490				0.5	0.410	-0.090	-18%		0.5	TP				0.5	TP					
BELT		Built	154	Diff	%		Built	155	Diff	%		Built	156	Diff	%		Built	157	Diff	%		

Feet from Bow:

Appendix 2 Comparison: Pontoon Deck-Topside

< South						North >						
Feet from Bow: 790						795						
BELT		Built	158	Diff	%		Built	159	Diff	%		
WEST	Location (Distance From Wall in Feet)	5	0.5	DP			0.5	0.328	-0.172	-34%	5	
		10	0.5	0.498	-0.002	0%		0.5	0.500	0.000	0%	10
		15	0.5	0.494	-0.006	-1%		0.5	0.496	-0.004	-1%	15
		20	0.5	0.484	-0.016	-3%		0.5	0.276	-0.224	-45%	20
		25							25			
		30							30			
		35							35			
		40							40			
		45							45			
		50							50			
		55							55			
		60							60			
		65							65			
		70							70			
Centerline						Centerline						
EAST	Location (Distance From Wall in Feet)	70							70			
		65							65			
		60							60			
		55							55			
		50							50			
		45							45			
		40							40			
		35							35			
		30							30			
		25							25			
20	0.5	0.360	-0.140	-28%		0.5	0.386	-0.114	-23%	20		
15	TP						15					
10	0.5	0.454	-0.046	-9%		0.5	0.440	-0.060	-12%	10		
5	0.5	DP				0.5	0.128			5		
BELT		Built	158	Diff	%		Built	159	Diff	%		
Feet from Bow: 790						795						

Appendix 3: Wing Wall Exterior - East

Wing Wall Exterior UTs taken January 2016 (see Figure 3 in report). This data was not revised in August 2016.

< South		East Wing Wall Exterior															
		5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	
		Belt #	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Height - 63 ft	69				NS								NS				
	60				NS								NS				
	50	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	45	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	40	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	35	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	30	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	25	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	20	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	15	0.375	0.285	0.235	0.305	0.220	0.365	0.380	0.310	0.205	0.220	0.225	0.240	0.300	0.280	0.310	
10	0.305	0.210	0.300	0.370	0.130	0.375	0.310	0.350	0.240	0.220	0.245	0.380	0.240	0.215	0.215		
Draft - 6 ft	5	0.240	0.230	0.350	0.176	0.376	0.286	0.316	0.206	0.122	0.230	0.228	0.350	0.306	0.330	0.394	

NS - New Steel

Appendix 3: Wing Wall Exterior - East

< South

		80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	
		Belt #	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Height - 63 ft	69					NS								NS			
	60					NS								NS			
	50	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	45	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	40	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	35	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	30	Box	Box	Box	Box	Box	Box	Box	Box	NS	NS	NS	NS	NS	NS	NS	
	25	Box	Box	Box	Box	Box	Box	Box	Box	NS	NS	NS	NS	NS	NS	NS	
20	Box	Box	Box	Box	Box	Box	Box	Box	NS	NS	NS	NS	NS	NS	NS		
15	0.280	0.305	0.305	0.190	0.260	0.380	0.370	0.375	0.190	0.290	0.305	0.300	0.305	0.300	0.230		
10	0.280	0.230	0.220	0.265	0.310	0.230	0.380	0.230	0.300	0.230	0.225	0.220	0.240	0.295	0.260		
Draft - 6 ft	5	0.368	0.268	0.236	0.204	0.256	0.206	0.328	0.208	0.350	0.236	0.216	0.230	0.300	0.176	0.354	

NS - New Steel

Appendix 3: Wing Wall Exterior - East

< South

		155	160	165	170	175	180	185	190	195	200	205	210	215	220	225	
		Belt #	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
Height - 63 ft	69						NS								NS		
	60						NS								NS		
	50	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	45	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	40	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	35	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	30	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	25	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
20	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		
15	0.200	0.370	0.375	0.300	0.305	0.270	0.230	0.200	0.240	0.220	0.220	0.300	0.275	0.255	0.300		
10	0.265	0.160	0.220	0.210	0.245	0.310	0.300	0.265	0.305	0.295	0.275	0.210	0.230	0.225	0.380		
Draft - 6 ft	5	0.350	0.206	0.116	0.356	0.198	0.198	0.256	0.280	0.405	0.335	0.320	0.360	0.335	0.320	0.215	

NS - New Steel

Appendix 3: Wing Wall Exterior - East

< South

		230	235	240	245	250	255	260	265	270	275	280	285	290	295	300			
		Belt #	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60		
Height - 63 ft	69							NS									NS		
	60								NS									NS	
	50	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	45	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	40	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	35	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.365	0.375	0.305	0.335	0.405		
	30	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.340	0.360	0.340	0.375	0.335		
	25	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.325	0.345	0.350	0.360	0.375		
20	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.245	0.245	0.315	0.380	0.375			
15	0.210	0.230	0.300	0.235	0.290	0.295	0.300	0.295	0.300	0.305	0.300	0.215	0.320	0.275	0.380				
10	0.285	0.272	0.325	0.280	0.300	0.370	0.365	0.300	0.240	0.290	0.260	0.305	0.300	0.365	0.385				
Draft - 6 ft	5	0.375	0.275	0.230	0.295	0.350	0.345	0.390	0.350	0.428	0.470	0.352	0.442	0.288	0.322	0.408			

NS - New Steel

Appendix 3: Wing Wall Exterior - East

< South

		305	310	315	320	325	330	335	340	345	350	355	360	365	370	375	
		Belt #	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75
Height - 63 ft	69								NS								
	60								NS								
	50	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	45	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	40	NS	NS	NS	0.310	0.295	0.305	0.160	0.340	0.320	0.380	0.265	0.380	0.325	0.430	0.305	
	35	0.350	0.235	0.305	0.325	0.380	0.400	0.220	0.430	0.300	0.345	0.385	0.385	0.395	0.370	0.300	
	30	0.315	0.300	0.295	0.345	0.340	0.315	0.375	0.315	0.380	0.375	0.400	Box	Box	Box	Box	
	25	0.315	0.310	0.305	0.375	0.350	0.380	0.260	0.255	0.255	0.380	0.395	Box	Box	Box	Box	
20	0.410	0.420	0.385	0.325	0.315	0.360	0.325	0.305	0.255	0.350	0.385	Box	Box	Box	Box		
15	0.385	0.230	0.295	0.300	0.235	0.380	0.300	0.230	0.300	0.275	0.230	0.295	0.375	0.305	0.300		
10	0.305	0.295	0.230	0.220	0.295	0.325	0.310	0.285	0.305	0.165	0.220	0.295	0.270	0.195	0.140		
Draft - 6 ft	5	0.420	0.256	0.470	0.274	0.380	0.472	0.424	0.390	0.237	0.466	0.480	0.286	0.346	0.350	0.244	

NS - New Steel

Appendix 3: Wing Wall Exterior - East

< South

Feet		380	385	390	395	400	405	410	415	420	425	430	435	440	445	450
Belt #		76	77	78	79	80	81	82	83	84	85	86	87	88	89	90
Height - 63 ft	69	NS								0.512						
	60	NS								0.408						
	50	NS	NS	NS	NS	0.485	0.490	0.490	0.490	0.495	0.485	0.490	0.495	0.500	0.490	0.495
	45	NS	NS	NS	NS	0.490	0.490	0.485	0.490	0.490	0.495	0.500	0.500	0.495	0.490	0.490
	40	0.300	0.360	0.350	0.380	0.480	0.490	0.475	0.490	0.390	0.320	0.480	0.490	0.495	0.480	0.485
	35	0.400	0.300	0.325	0.380	0.370	0.365	0.290	0.330	0.220	0.375	0.370	0.290	0.325	0.330	0.325
	30	Box	Box	Box	Box	0.350	0.370	0.385	0.395	0.275	0.200	0.345	0.275	0.275	0.230	0.298
	25	Box	Box	Box	Box	0.345	0.350	0.345	0.395	0.325	0.295	0.265	0.210	0.395	0.325	0.250
20	Box	Box	Box	Box	0.330	0.335	0.260	0.340	0.245	0.300	0.350	0.290	0.285	0.285	0.225	
15	0.320	0.300	0.300	0.305	0.335	0.215	0.120	0.110	0.105	0.125	0.300	0.245	0.150	0.340	0.330	
10	0.180	0.165	0.260	0.315	0.220	0.275	0.305	0.310	0.305	0.385	0.180	0.500	0.305	0.385	0.220	
Draft - 6 ft	5	0.244	0.350	0.238	0.336	0.390	0.408	0.264	0.224	0.230	0.314	0.342	0.202	0.384	0.206	0.166

NS - New Steel

Appendix 3: Wing Wall Exterior - East

< South

		Feet	455	460	465	470	475	480	485	490	495	500	505	510	515	520	525
		Belt #	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105
Height - 63 ft	69		0.510									0.526					
	60		0.394									0.368					
	50	0.480	0.495	0.500	0.485	0.495	0.490	0.295	0.800	0.315	0.315	0.330	0.200	0.250	0.345	0.505	
	45	0.500	0.495	0.495	0.500	0.500	0.490	0.285	0.280	0.290	0.210	0.315	0.325	0.315	0.325	0.515	
	40	0.495	0.500	0.495	0.495	0.485	0.495	0.232	0.270	0.320	0.275	0.325	0.325	0.225	0.215	0.505	
	35	0.370	0.395	0.490	0.500	0.400	0.385	0.315	0.230	0.205	0.325	0.297	0.280	0.330	0.305	0.485	
	30	0.365	0.270	0.495	0.495	0.495	0.495	0.125	0.220	0.200	0.125	0.320	0.325	0.405	0.390	0.485	
	25	0.315	0.250	0.495	0.335	0.490	0.330	0.196	0.276	0.295	0.335	0.230	0.345	0.345	0.275	0.480	
	20	0.190	0.215	0.280	0.185	0.335	0.320	0.315	0.325	0.295	0.490	0.490	0.485	0.390	0.375	0.500	
	15	0.335	0.230	0.325	0.220	0.330	0.130	0.325	0.330	0.330	0.345	0.385	0.330	0.330	0.220	0.295	
10	0.300	0.295	0.380	0.325	0.300	0.220	0.295	0.300	0.230	0.380	0.295	0.300	0.300	0.300	0.245	0.300	
Draft - 6 ft	5	0.400	0.408	0.350	0.396	0.124	0.242	0.408	0.256	0.290	0.280	0.350	0.350	0.400	0.410	0.394	

NS - New Steel

Appendix 3: Wing Wall Exterior - East

< South

		530	535	540	545	550	555	560	565	570	575	580	585	590	595	600
		106	107	108	109	110	111	112	113	114	115	116	117	118	119	120
Height - 63 ft	69			0.514								0.516				
	60			0.376								0.324				
	50	0.505	0.505	0.515	0.515	0.515	0.515	0.355	0.355	0.550	0.300	0.325	0.360	0.505	0.510	0.510
	45	0.510	0.515	0.515	0.515	0.515	0.515	0.350	0.300	0.350	0.340	0.250	0.405	0.510	0.505	0.505
	40	0.515	0.510	0.515	0.515	0.515	0.515	0.220	0.380	0.235	0.325	0.395	0.315	0.510	0.500	0.510
	35	0.510	0.510	0.515	0.510	0.510	0.510	0.335	0.315	0.315	0.290	0.305	0.315	0.515	0.515	0.515
	30	0.505	0.515	0.515	0.510	0.515	0.510	0.335	0.355	0.340	0.240	0.380	0.220	0.340	0.440	0.405
	25	0.510	0.490	0.510	0.510	0.505	0.510	0.370	0.290	0.335	0.270	0.335	0.315	0.300	0.370	0.510
20	0.500	0.500	0.505	0.505	0.505	0.510	0.510	0.510	0.510	0.510	0.320	0.232	0.415	0.445	0.315	
15	0.180	0.220	0.350	0.225	0.340	0.165	0.485	0.315	0.360	0.320	0.320	0.148	0.315	0.233	0.235	
10	0.230	0.185	0.345	0.290	0.370	0.360	0.215	0.260	0.290	0.295	0.302	0.285	0.235	0.220	0.270	
Draft - 6 ft	5	0.412	0.290	0.350	0.328	0.350	0.346	0.360	0.408	0.272	0.426	0.270	0.274	0.344	0.290	0.350

NS - New Steel

Appendix 3: Wing Wall Exterior - East

< South

		605	610	615	620	625	630	635	640	645	650	655	660	665	670	675
		121	122	123	124	125	126	127	128	129	130	131	132	133	134	135
Height - 63 ft	69				0.508								0.508			
	60				0.388								0.499			
	50	0.505	0.510	0.512	0.505	0.512	0.515	0.515	0.505	0.510	0.510	0.235	0.375	0.460	0.305	0.340
	45	0.505	0.515	0.515	0.512	0.505	0.510	0.500	0.200	0.265	0.340	0.315	0.205	0.370	0.340	0.180
	40	0.460	0.510	0.510	0.425	0.505	0.515	0.510	0.325	0.220	0.235	0.350	0.365	0.450	0.325	0.260
	35	0.500	0.510	0.510	0.510	0.505	0.505	0.510	0.325	0.350	0.220	0.485	0.286	0.385	0.235	0.360
	30	0.325	0.355	0.445	0.355	0.355	0.340	0.450	0.320	0.390	0.260	0.310	0.300	0.365	0.235	0.370
	25	0.510	0.515	0.210	0.385	0.260	0.340	0.255	0.322	0.235	0.335	0.400	0.230	0.355	0.390	0.385
20	0.236	0.330	0.150	0.320	0.210	0.235	0.300	0.245	0.355	0.425	0.305	0.215	0.185	0.300	0.310	
15	0.222	0.323	0.155	0.210	0.185	0.210	0.395	0.395	0.380	0.235	0.148	0.305	0.210	0.400	0.146	
10	0.285	0.290	0.220	0.310	0.300	0.375	0.370	0.230	0.300	0.290	0.300	0.255	0.300	0.295	0.275	
Draft - 6 ft	5	0.354	0.256	0.364	0.486	0.240	0.362	0.296	0.264	0.394	0.232	0.412	0.248	0.278	0.408	0.406

NS - New Steel

Appendix 3: Wing Wall Exterior - East

< South

		Feet	680	685	690	695	700	705	710	715	720	725	730	735	740	745	750
		Belt #	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150
Height - 63 ft	69					0.512									0.504		
	60					0.512									0.444		
	50	0.245	0.330	0.370	0.185	0.245	0.350	0.370	0.382	0.342	0.335	0.350	0.450	0.395	0.275	0.355	
	45	0.350	0.365	0.335	0.360	0.260	0.235	0.380	0.330	0.354	0.275	0.310	0.360	0.385	0.362	0.375	
	40	0.330	0.360	0.346	0.220	0.244	0.345	0.415	0.435	0.236	0.350	0.270	0.200	0.420	0.342	0.340	
	35	0.330	0.350	0.330	0.330	0.350	0.380	0.395	0.380	0.275	0.310	0.335	0.185	0.255	0.285	0.405	
	30	Box	Box	Box	Box	Box	Box	Box	Box	0.332	0.285	0.360	0.260	0.360	0.195	0.320	
	25	Box	Box	Box	Box	Box	Box	Box	Box	0.240	0.375	0.385	0.215	0.232	0.330	0.450	
20	Box	Box	Box	Box	Box	Box	Box	Box	0.300	0.325	0.385	0.290	0.380	0.390	0.410		
15	0.230	0.210	0.140	0.365	0.390	0.160	0.305	0.205	0.300	0.325	0.230	0.160	0.190	0.215	0.210		
10	0.295	0.300	0.295	0.305	0.300	0.295	0.300	0.295	0.220	0.270	0.290	0.265	0.295	0.300	0.220		
Draft - 6 ft	5	0.384	0.226	0.342	0.382	0.402	0.284	0.342	0.382	0.266	0.202	0.394	0.246	0.334	0.264	0.200	

NS - New Steel

Appendix 3: Wing Wall Exterior - East

< South		East Wing Wall Exterior									North >	
Feet		755	760	765	770	775	780	785	790	795		Feet
Belt #		151	152	153	154	155	156	157	158	159		Belt #
Height - 63 ft	69						0.508					69
	60						0.438					60
	50	0.445	0.325	0.258	0.290	0.380	0.315	0.320	0.300	0.395		50
	45	0.260	0.440	0.485	0.500	0.495	0.440	0.445	0.445	0.365		45
	40	0.395	0.355	0.305	0.430	0.275	0.290	0.485	0.345	0.400		40
	35	0.245	0.360	0.315	0.325	0.325	0.355	0.335	0.320	0.390		35
	30	0.455	0.345	0.445	0.325	0.455	0.340	0.335	0.295	0.395		30
	25	0.335	0.355	0.250	0.490	0.380	0.334	0.420	0.295	0.335		25
	20	0.385	0.400	0.435	0.380	0.275	0.300	0.345	0.315	0.305		20
15	0.205	0.200	0.275	0.295	0.155	0.215	0.200	0.200	0.280		15	
10	0.215	0.295	0.265	0.350	0.300	0.300	0.220	0.295	0.245		10	
Draft - 6 ft	5	0.364	0.286	0.324	0.301	0.321	0.276	0.355	0.270	0.390	5	Draft - 6 ft

NS - New Steel

Appendix 3 Comparison: Wing Wall Exterior - East

		East Wing Wall Exterior													
		5				10				15					
Feet	Belt #	Built	1	Diff	%	Built	2	Diff	%	Built	3	Diff	%		
		Above Waterline	69												
60															
50			NS				NS				NS				
45			NS				NS				NS				
40			NS				NS				NS				
35			NS				NS				NS				
30			NS				NS				NS				
25			NS				NS				NS				
20			NS				NS				NS				
15			0.438	0.375	-0.063	-14%	0.438	0.285	-0.153	-35%	0.438	0.235	-0.203	-46%	
10		0.438	0.305	-0.133	-30%	0.438	0.210	-0.228	-52%	0.438	0.300	-0.138	-32%		
	5	0.438	0.240	-0.198	-45%	0.438	0.230	-0.208	-47%	0.438	0.350	-0.088	-20%		

Appendix 3 Comparison: Wing Wall Exterior - East

< South

Feet		20				25					30			
Belt #		Built	4	Diff	%	Built	5	Diff	%	Built	6	Diff	%	
Above Waterline	69		NS											
	60		NS											
	50		NS				NS				NS			
	45		NS				NS				NS			
	40		NS				NS				NS			
	35		NS				NS				NS			
	30		NS				NS				NS			
	25		NS				NS				NS			
	20		NS				NS				NS			
	15	0.438	0.305	-0.133	-30%	0.438	0.220	-0.218	-50%	0.438	0.365	-0.073	-17%	
10	0.438	0.370	-0.068	-16%	0.438	0.130	-0.308	-70%	0.438	0.375	-0.063	-14%		
5	0.438	0.176	-0.262	-60%	0.438	0.376	-0.062	-14%	0.438	0.286	-0.152	-35%		

Appendix 3 Comparison: Wing Wall Exterior - East

< South

Feet		35				40					45			
Belt #		Built	7	Diff	%	Built	8	Diff	%	Built	9	Diff	%	
Above Waterline	69													
	60													
	50		NS				NS				NS			
	45		NS				NS				NS			
	40		NS				NS				NS			
	35		NS				NS				NS			
	30		NS				NS				NS			
	25		NS				NS				NS			
	20		NS				NS				NS			
	15	0.438	0.380	-0.058	-13%	0.438	0.310	-0.128	-29%	0.438	0.205	-0.233	-53%	
10	0.438	0.310	-0.128	-29%	0.438	0.350	-0.088	-20%	0.438	0.240	-0.198	-45%		
5	0.438	0.316	-0.122	-28%	0.438	0.206	-0.232	-53%	0.438	0.122	-0.316	-72%		

Appendix 3 Comparison: Wing Wall Exterior - East

< South

Feet		50				55					60			
Belt #		Built	10	Diff	%	Built	11	Diff	%	Built	12	Diff	%	
Above Waterline	69										NS			
	60										NS			
	50		NS				NS				NS			
	45		NS				NS				NS			
	40		NS				NS				NS			
	35		NS				NS				NS			
	30		NS				NS				NS			
	25		NS				NS				NS			
	20		NS				NS				NS			
	15	0.438	0.220	-0.218	-50%	0.438	0.225	-0.213	-49%	0.438	0.240	-0.198	-45%	
10	0.438	0.220	-0.218	-50%	0.438	0.245	-0.193	-44%	0.438	0.380	-0.058	-13%		
5	0.438	0.230	-0.208	-47%	0.438	0.228	-0.210	-48%	0.438	0.350	-0.088	-20%		

Appendix 3 Comparison: Wing Wall Exterior - East

< South

Feet		65				70					75			
Belt #		Built	13	Diff	%	Built	14	Diff	%	Built	15	Diff	%	
Above Waterline	69													
	60													
	50		NS				NS				NS			
	45		NS				NS				NS			
	40		NS				NS				NS			
	35		NS				NS				NS			
	30		NS				NS				NS			
	25		NS				NS				NS			
	20		NS				NS				NS			
	15	0.438	0.300	-0.138	-32%	0.438	0.280	-0.158	-36%	0.438	0.310	-0.128	-29%	
10	0.438	0.240	-0.198	-45%	0.438	0.215	-0.223	-51%	0.438	0.215	-0.223	-51%		
5	0.438	0.306	-0.132	-30%	0.438	0.330	-0.108	-25%	0.438	0.394	-0.044	-10%		

Appendix 3 Comparison: Wing Wall Exterior - East

< South

		80				85				90			
Feet		Built	16	Diff	%	Built	17	Diff	%	Built	18	Diff	%
Belt #		Built	16	Diff	%	Built	17	Diff	%	Built	18	Diff	%
Above Waterline	69												
	60												
	50		NS				NS				NS		
	45		NS				NS				NS		
	40		NS				NS				NS		
	35		NS				NS				NS		
	30		Box				Box				Box		
	25		Box				Box				Box		
	20		Box				Box				Box		
	15		0.438	0.280	-0.158	-36%	0.438	0.305	-0.208	-47%	0.438	0.305	-0.133
10		0.438	0.280	-0.158	-36%	0.438	0.230	-0.170	-39%	0.438	0.220	-0.218	-50%
	5	0.438	0.368	-0.070	-16%	0.438	0.268	#REF!	#REF!	0.438	0.236	-0.202	-46%

Appendix 3 Comparison: Wing Wall Exterior - East

< South

		95				100				105						
Feet		Built	19	Diff	%	Built	20	Diff	%	Built	21	Diff	%			
Belt #		Built	19	Diff	%	Built	20	Diff	%	Built	21	Diff	%			
Above Waterline	69						NS									
	60						NS									
	50		NS				NS				NS					
	45		NS				NS				NS					
	40		NS				NS				NS					
	35		NS				NS				NS					
	30		Box				Box				Box					
	25		Box				Box				Box					
	20		Box				Box				Box					
	15		0.438	0.190	-0.248	-57%		0.438	0.260	-0.178	-41%		0.438	0.380	-0.058	-13%
10		0.438	0.265	-0.173	-39%		0.438	0.310	-0.128	-29%		0.438	0.230	-0.208	-47%	
	5		0.438	0.204	-0.234	-53%		0.438	0.256	-0.182	-42%		0.438	0.206	-0.232	-53%

Appendix 3 Comparison: Wing Wall Exterior - East

< South

Feet		110				115					120			
Belt #		Built	22	Diff	%	Built	23	Diff	%	Built	24	Diff	%	
Above Waterline	69													
	60													
	50		NS				NS				NS			
	45		NS				NS				NS			
	40		NS				NS				NS			
	35		NS				NS				NS			
	30		Box				Box				NS			
	25		Box				Box				NS			
	20		Box				Box				NS			
	15	0.438	0.370	-0.068	-16%	0.438	0.375	-0.063	-14%	0.438	0.190	-0.248	-57%	
10	0.438	0.380	-0.058	-13%	0.438	0.230	-0.208	-47%	0.438	0.300	-0.138	-32%		
5	0.438	0.328	-0.110	-25%	0.438	0.208	-0.230	-53%	0.438	0.350	-0.088	-20%		

Appendix 3 Comparison: Wing Wall Exterior - East

< South

Feet		125				130					135			
Belt #		Built	25	Diff	%	Built	26	Diff	%	Built	27	Diff	%	
Above Waterline	69													
	60													
	50		NS				NS				NS			
	45		NS				NS				NS			
	40		NS				NS				NS			
	35		NS				NS				NS			
	30		NS				NS				NS			
	25		NS				NS				NS			
	20		NS				NS				NS			
	15	0.438	0.290	-0.148	-34%	0.438	0.305	-0.133	-30%	0.438	0.300	-0.138	-32%	
10	0.438	0.230	-0.208	-47%	0.438	0.225	-0.213	-49%	0.438	0.220	-0.218	-50%		
5	0.438	0.236	-0.202	-46%	0.438	0.216	-0.222	-51%	0.438	0.230	-0.208	-47%		

Appendix 3 Comparison: Wing Wall Exterior - East

< South

Feet		140				145					150			
Belt #		Built	28	Diff	%	Built	29	Diff	%	Built	30	Diff	%	
Above Waterline	69		NS											
	60		NS											
	50		NS				NS				NS			
	45		NS				NS				NS			
	40		NS				NS				NS			
	35		NS				NS				NS			
	30		NS				NS				NS			
	25		NS				NS				NS			
	20		NS				NS				NS			
	15	0.438	0.305	-0.133	-30%	0.438	0.300	-0.138	-32%	0.438	0.230	-0.208	-47%	
10	0.438	0.240	-0.198	-45%	0.438	0.295	-0.143	-33%	0.438	0.260	-0.178	-41%		
5	0.438	0.300	-0.138	-32%	0.438	0.176	-0.262	-60%	0.438	0.354	-0.084	-19%		

Appendix 3 Comparison: Wing Wall Exterior - East

< South

Feet		155				160					165			
Belt #		Built	31	Diff	%	Built	32	Diff	%	Built	33	Diff	%	
Above Waterline	69													
	60													
	50		NS				NS				NS			
	45		NS				NS				NS			
	40		NS				NS				NS			
	35		NS				NS				NS			
	30		NS				NS				NS			
	25		NS				NS				NS			
	20		NS				NS				NS			
	15	0.438	0.200	-0.238	-54%	0.438	0.370	-0.068	-16%	0.438	0.375	-0.063	-14%	
10	0.438	0.265	-0.173	-39%	0.438	0.160	-0.278	-63%	0.438	0.220	-0.218	-50%		
5	0.438	0.350	-0.088	-20%	0.438	0.206	-0.232	-53%	0.438	0.116	-0.322	-74%		

Appendix 3 Comparison: Wing Wall Exterior - East

< South

Feet		170				175					180			
Belt #		Built	34	Diff	%	Built	35	Diff	%	Built	36	Diff	%	
Above Waterline	69										NS			
	60										NS			
	50		NS				NS				NS			
	45		NS				NS				NS			
	40		NS				NS				NS			
	35		NS				NS				NS			
	30		NS				NS				NS			
	25		NS				NS				NS			
	20		NS				NS				NS			
	15	0.438	0.300	-0.138	-32%	0.438	0.305	-0.133	-30%	0.438	0.270	-0.168	-38%	
10	0.438	0.210	-0.228	-52%	0.438	0.245	-0.193	-44%	0.438	0.310	-0.128	-29%		
5	0.438	0.356	-0.082	-19%	0.438	0.198	-0.240	-55%	0.438	0.198	-0.240	-55%		

Appendix 3 Comparison: Wing Wall Exterior - East

< South

Feet		185				190					195			
Belt #		Built	37	Diff	%	Built	38	Diff	%	Built	39	Diff	%	
Above Waterline	69													
	60													
	50		NS				NS				NS			
	45		NS				NS				NS			
	40		NS				NS				NS			
	35		NS				NS				NS			
	30		NS				NS				NS			
	25		NS				NS				NS			
	20		NS				NS				NS			
	15	0.438	0.230	-0.208	-47%	0.438	0.200	-0.238	-54%	0.438	0.240	-0.198	-45%	
10	0.438	0.300	-0.138	-32%	0.438	0.265	-0.173	-39%	0.438	0.305	-0.133	-30%		
5	0.438	0.256	-0.182	-42%	0.438	0.280	-0.158	-36%	0.438	0.405	-0.033	-8%		

Appendix 3 Comparison: Wing Wall Exterior - East

< South

Feet		200				205				210			
Belt #		Built	40	Diff	%	Built	41	Diff	%	Built	42	Diff	%
Above Waterline	69												
	60												
	50		NS				NS				NS		
	45		NS				NS				NS		
	40		NS				NS				NS		
	35		NS				NS				NS		
	30		NS				NS				NS		
	25		NS				NS				NS		
	20		NS				NS				NS		
	15	0.438	0.220	-0.218	-50%	0.438	0.220	-0.218	-50%	0.438	0.300	-0.138	-32%
10	0.438	0.295	-0.143	-33%	0.438	0.275	-0.163	-37%	0.438	0.210	-0.228	-52%	
5	0.438	0.335	-0.103	-24%	0.438	0.320	-0.118	-27%	0.438	0.360	-0.078	-18%	

Appendix 3 Comparison: Wing Wall Exterior - East

< South

Feet		215				220				225			
Belt #		Built	43	Diff	%	Built	44	Diff	%	Built	45	Diff	%
Above Waterline	69						NS						
	60						NS						
	50		NS				NS				NS		
	45		NS				NS				NS		
	40		NS				NS				NS		
	35		NS				NS				NS		
	30		NS				NS				NS		
	25		NS				NS				NS		
	20		NS				NS				NS		
	15	0.438	0.275	-0.163	-37%	0.438	0.255	-0.183	-42%	0.438	0.300	-0.138	-32%
10	0.438	0.230	-0.208	-47%	0.438	0.225	-0.213	-49%	0.438	0.380	-0.058	-13%	
5	0.438	0.335	-0.103	-24%	0.438	0.320	-0.118	-27%	0.438	0.215	-0.223	-51%	

Appendix 3 Comparison: Wing Wall Exterior - East

< South

Feet		230				235				240			
Belt #		Built	46	Diff	%	Built	47	Diff	%	Built	48	Diff	%
Above Waterline	69												
	60												
	50		NS				NS				NS		
	45		NS				NS				NS		
	40		NS				NS				NS		
	35		NS				NS				NS		
	30		NS				NS				NS		
	25		NS				NS				NS		
	20		NS				NS				NS		
	15	0.438	0.210	-0.228	-52%	0.438	0.230	-0.208	-47%	0.438	0.300	-0.138	-32%
10	0.438	0.285	-0.153	-35%	0.438	0.272	-0.166	-38%	0.438	0.325	-0.113	-26%	
5	0.438	0.375	-0.063	-14%	0.438	0.275	-0.163	-37%	0.438	0.230	-0.208	-47%	

Appendix 3 Comparison: Wing Wall Exterior - East

< South

Feet		245				250					255			
Belt #		Built	49	Diff	%	Built	50	Diff	%	Built	51	Diff	%	
Above Waterline	69													
	60													
	50		NS				NS				NS			
	45		NS				NS				NS			
	40		NS				NS				NS			
	35		NS				NS				NS			
	30		NS				NS				NS			
	25		NS				NS				NS			
	20		NS				NS				NS			
	15	0.438	0.235	-0.203	-46%	0.438	0.290	-0.148	-34%	0.438	0.295	-0.143	-33%	
10	0.438	0.280	-0.158	-36%	0.438	0.300	-0.138	-32%	0.438	0.370	-0.068	-16%		
5	0.438	0.295	-0.143	-33%	0.438	0.350	-0.088	-20%	0.438	0.345	-0.093	-21%		

Appendix 3 Comparison: Wing Wall Exterior - East

< South

Feet		260				265				270			
Belt #		Built	52	Diff	%	Built	53	Diff	%	Built	54	Diff	%
Above Waterline	69		NS										
	60		NS										
	50		NS				NS				NS		
	45		NS				NS				NS		
	40		NS				NS				NS		
	35		NS				NS				NS		
	30		NS				NS				NS		
	25		NS				NS				NS		
	20		NS				NS				NS		
	15	0.438	0.300	-0.138	-32%	0.438	0.295	-0.143	-33%	0.438	0.300	-0.138	-32%
10	0.438	0.365	-0.073	-17%	0.438	0.300	-0.138	-32%	0.438	0.240	-0.198	-45%	
5	0.438	0.390	-0.048	-11%	0.438	0.350	-0.088	-20%	0.438	0.428	-0.010	-2%	

Appendix 3 Comparison: Wing Wall Exterior - East

< South

Feet		275				280					285			
Belt #		Built	55	Diff	%	Built	56	Diff	%	Built	57	Diff	%	
Above Waterline	69													
	60													
	50		NS				NS				NS			
	45		NS				NS				NS			
	40		NS				NS				NS			
	35		NS			0.438	0.365	-0.073	-17%	0.438	0.375	-0.063	-14%	
	30		NS			0.438	0.340	-0.098	-22%	0.438	0.360	-0.078	-18%	
	25		NS			0.438	0.325	-0.113	-26%	0.438	0.345	-0.093	-21%	
	20		NS			0.438	0.245	-0.193	-44%	0.438	0.245	-0.193	-44%	
	15	0.438	0.305	-0.133	-30%	0.438	0.300	-0.138	-32%	0.438	0.215	-0.223	-51%	
10	0.438	0.290	-0.148	-34%	0.438	0.260	-0.178	-41%	0.438	0.305	-0.133	-30%		
	5	0.438	0.470	0.032	7%	0.438	0.352	-0.086	-20%	0.438	0.442	0.004	1%	

Appendix 3 Comparison: Wing Wall Exterior - East

< South

Feet		290				295					300			
Belt #		Built	58	Diff	%	Built	59	Diff	%	Built	60	Diff	%	
Above Waterline	69										NS			
	60										NS			
	50		NS				NS				NS			
	45		NS				NS				NS			
	40		NS				NS				NS			
	35	0.438	0.305	-0.133	-30%	0.438	0.335	-0.103	-24%	0.438	0.405	-0.033	-8%	
	30	0.438	0.340	-0.098	-22%	0.438	0.375	-0.063	-14%	0.438	0.335	-0.103	-24%	
	25	0.438	0.350	-0.088	-20%	0.438	0.360	-0.078	-18%	0.438	0.375	-0.063	-14%	
	20	0.438	0.315	-0.123	-28%	0.438	0.380	-0.058	-13%	0.438	0.375	-0.063	-14%	
	15	0.438	0.320	-0.118	-27%	0.438	0.275	-0.163	-37%	0.438	0.380	-0.058	-13%	
10	0.438	0.300	-0.138	-32%	0.438	0.365	-0.073	-17%	0.438	0.385	-0.053	-12%		
5	0.438	0.288	-0.150	-34%	0.438	0.322	-0.116	-26%	0.438	0.408	-0.030	-7%		

Appendix 3 Comparison: Wing Wall Exterior - East

< South

Feet		305				310					315			
Belt #		Built	61	Diff	%	Built	62	Diff	%	Built	63	Diff	%	
Above Waterline	69													
	60													
	50		NS				NS				NS			
	45		NS				NS				NS			
	40		NS				NS				NS			
	35	0.438	0.350	-0.088	-20%	0.438	0.235	-0.203	-46%	0.438	0.305	-0.133	-30%	
	30	0.438	0.315	-0.123	-28%	0.438	0.300	-0.138	-32%	0.438	0.295	-0.143	-33%	
	25	0.438	0.315	-0.123	-28%	0.438	0.310	-0.128	-29%	0.438	0.305	-0.133	-30%	
	20	0.438	0.410	-0.028	-6%	0.438	0.420	-0.018	-4%	0.438	0.385	-0.053	-12%	
	15	0.438	0.385	-0.053	-12%	0.438	0.230	-0.208	-47%	0.438	0.295	-0.143	-33%	
10	0.438	0.305	-0.133	-30%	0.438	0.295	-0.143	-33%	0.438	0.230	-0.208	-47%		
	5	0.438	0.420	-0.018	-4%	0.438	0.256	-0.182	-42%	0.438	0.470	0.032	7%	

Appendix 3 Comparison: Wing Wall Exterior - East

< South

Feet		320				325					330			
Belt #		Built	64	Diff	%	Built	65	Diff	%	Built	66	Diff	%	
Above Waterline	69													
	60													
	50		NS				NS				NS			
	45		NS				NS				NS			
	40	0.438	0.310	-0.128	-29%	0.438	0.295	-0.143	-33%	0.438	0.305	-0.133	-30%	
	35	0.438	0.325	-0.113	-26%	0.438	0.380	-0.058	-13%	0.438	0.400	-0.038	-9%	
	30	0.438	0.345	-0.093	-21%	0.438	0.340	-0.098	-22%	0.438	0.315	-0.123	-28%	
	25	0.438	0.375	-0.063	-14%	0.438	0.350	-0.088	-20%	0.438	0.380	-0.058	-13%	
	20	0.438	0.325	-0.113	-26%	0.438	0.315	-0.123	-28%	0.438	0.360	-0.078	-18%	
	15	0.438	0.300	-0.138	-32%	0.438	0.235	-0.203	-46%	0.438	0.380	-0.058	-13%	
10	0.438	0.220	-0.218	-50%	0.438	0.295	-0.143	-33%	0.438	0.325	-0.113	-26%		
	5	0.438	0.274	-0.164	-37%	0.438	0.380	-0.058	-13%	0.438	0.472	0.034	8%	

Appendix 3 Comparison: Wing Wall Exterior - East

< South

Feet		335				340					345			
Belt #		Built	67	Diff	%	Built	68	Diff	%	Built	69	Diff	%	
Above Waterline	69						NS							
	60						NS							
	50		NS				NS				NS			
	45		NS				NS				NS			
	40	0.438	0.160	-0.278	-63%	0.438	0.340	-0.098	-22%	0.438	0.320	-0.118	-27%	
	35	0.438	0.220	-0.218	-50%	0.438	0.430	-0.008	-2%	0.438	0.300	-0.138	-32%	
	30	0.438	0.375	-0.063	-14%	0.438	0.315	-0.123	-28%	0.438	0.380	-0.058	-13%	
	25	0.438	0.260	-0.178	-41%	0.438	0.255	-0.183	-42%	0.438	0.255	-0.183	-42%	
	20	0.438	0.325	-0.113	-26%	0.438	0.305	-0.133	-30%	0.438	0.255	-0.183	-42%	
	15	0.438	0.300	-0.138	-32%	0.438	0.230	-0.208	-47%	0.438	0.300	-0.138	-32%	
10	0.438	0.310	-0.128	-29%	0.438	0.285	-0.153	-35%	0.438	0.305	-0.133	-30%		
	5	0.438	0.424	-0.014	-3%	0.438	0.390	-0.048	-11%	0.438	0.237	-0.201	-46%	

Appendix 3 Comparison: Wing Wall Exterior - East

< South

Feet		350				355					360			
Belt #		Built	70	Diff	%	Built	71	Diff	%	Built	72	Diff	%	
Above Waterline	69													
	60													
	50		NS				NS				NS			
	45		NS				NS				NS			
	40	0.438	0.380	-0.058	-13%	0.438	0.265	-0.173	-39%	0.438	0.380	-0.058	-13%	
	35	0.438	0.345	-0.093	-21%	0.438	0.385	-0.053	-12%	0.438	0.385	-0.053	-12%	
	30	0.438	0.375	-0.063	-14%	0.438	0.400	-0.038	-9%	0.438	Box			
	25	0.438	0.380	-0.058	-13%	0.438	0.395	-0.043	-10%	0.438	Box			
	20	0.438	0.350	-0.088	-20%	0.438	0.385	-0.053	-12%	0.438	Box			
	15	0.438	0.275	-0.163	-37%	0.438	0.230	-0.208	-47%	0.438	0.295	-0.143	-33%	
10	0.438	0.165	-0.273	-62%	0.438	0.220	-0.218	-50%	0.438	0.295	-0.143	-33%		
	5	0.438	0.466	0.028	6%	0.438	0.480	0.042	10%	0.438	0.286	-0.152	-35%	

Appendix 3 Comparison: Wing Wall Exterior - East

< South

Feet		365				370					375			
Belt #		Built	73	Diff	%	Built	74	Diff	%	Built	75	Diff	%	
Above Waterline	69													
	60													
	50		NS				NS				NS			
	45		NS				NS				NS			
	40	0.438	0.325	-0.113	-26%	0.438	0.430	-0.008	-2%	0.438	0.305	-0.133	-30%	
	35	0.438	0.395	-0.043	-10%	0.438	0.370	-0.068	-16%	0.438	0.300	-0.138	-32%	
	30		Box				Box				Box			
	25		Box				Box				Box			
	20		Box				Box				Box			
	15	0.438	0.375	-0.063	-14%	0.438	0.305	-0.133	-30%	0.438	0.300	-0.138	-32%	
10	0.438	0.270	-0.168	-38%	0.438	0.195	-0.243	-55%	0.438	0.140	-0.298	-68%		
	5	0.438	0.346	-0.092	-21%	0.438	0.350	-0.088	-20%	0.438	0.244	-0.194	-44%	

Appendix 3 Comparison: Wing Wall Exterior - East

< South

Feet		380				385					390			
Belt #		Built	76	Diff	%	Built	77	Diff	%	Built	78	Diff	%	
Above Waterline	69		NS											
	60		NS											
	50		NS				NS				NS			
	45		NS				NS				NS			
	40	0.438	0.300	-0.138	-32%	0.438	0.360	-0.078	-18%	0.438	0.350	-0.088	-20%	
	35	0.438	0.400	-0.038	-9%	0.438	0.300	-0.138	-32%	0.438	0.325	-0.113	-26%	
	30		Box				Box				Box			
	25		Box				Box				Box			
	20		Box				Box				Box			
	15	0.438	0.320	-0.118	-27%	0.438	0.300	-0.138	-32%	0.438	0.300	-0.138	-32%	
10	0.438	0.180	-0.258	-59%	0.438	0.165	-0.273	-62%	0.438	0.260	-0.178	-41%		
	5	0.438	0.244	-0.194	-44%	0.438	0.350	-0.088	-20%	0.438	0.238	-0.200	-46%	

Appendix 3 Comparison: Wing Wall Exterior - East

< South

Feet		395				400				405			
Belt #		Built	79	Diff	%	Built	80	Diff	%	Built	81	Diff	%
Above Waterline	69												
	60												
	50		NS			0.438	0.485	0.047	11%	0.438	0.490	0.052	12%
	45		NS			0.438	0.490	0.052	12%	0.438	0.490	0.052	12%
	40	0.438	0.380	-0.058	-13%	0.438	0.480	0.042	10%	0.438	0.490	0.052	12%
	35	0.438	0.380	-0.058	-13%	0.438	0.370	-0.068	-16%	0.438	0.365	-0.073	-17%
	30		Box			0.438	0.350	-0.088	-20%	0.438	0.370	-0.068	-16%
	25		Box			0.438	0.345	-0.093	-21%	0.438	0.350	-0.088	-20%
	20		Box			0.438	0.330	-0.108	-25%	0.438	0.335	-0.103	-24%
	15	0.438	0.305	-0.133	-30%	0.438	0.335	-0.103	-24%	0.438	0.215	-0.223	-51%
10	0.438	0.315	-0.123	-28%	0.438	0.220	-0.218	-50%	0.438	0.275	-0.163	-37%	
5	0.438	0.336	-0.102	-23%	0.438	0.390	-0.048	-11%	0.438	0.408	-0.030	-7%	

Appendix 3 Comparison: Wing Wall Exterior - East

< South

Feet		410				415				420			
Belt #	Built	82	Diff	%	Built	83	Diff	%	Built	84	Diff	%	
Above Waterline	69								0.500	0.512	0.012	2%	
	60								0.500	0.408	-0.092	-18%	
	50	0.438	0.490	0.052	12%	0.438	0.490	0.052	12%	0.438	0.495	0.057	13%
	45	0.438	0.485	0.047	11%	0.438	0.490	0.052	12%	0.438	0.490	0.052	12%
	40	0.438	0.475	0.037	8%	0.438	0.490	0.052	12%	0.438	0.390	-0.048	-11%
	35	0.438	0.290	-0.148	-34%	0.438	0.330	-0.108	-25%	0.438	0.220	-0.218	-50%
	30	0.438	0.385	-0.053	-12%	0.438	0.395	-0.043	-10%	0.438	0.275	-0.163	-37%
	25	0.438	0.345	-0.093	-21%	0.438	0.395	-0.043	-10%	0.438	0.325	-0.113	-26%
	20	0.438	0.260	-0.178	-41%	0.438	0.340	-0.098	-22%	0.438	0.245	-0.193	-44%
	15	0.438	0.120	-0.318	-73%	0.438	0.110	-0.328	-75%	0.438	0.105	-0.333	-76%
10	0.438	0.305	-0.133	-30%	0.438	0.310	-0.128	-29%	0.438	0.305	-0.133	-30%	
5	0.438	0.264	-0.174	-40%	0.438	0.224	-0.214	-49%	0.438	0.230	-0.208	-47%	

Appendix 3 Comparison: Wing Wall Exterior - East

< South

Feet		425				430					435			
Belt #		Built	85	Diff	%	Built	86	Diff	%	Built	87	Diff	%	
Above Waterline	69													
	60													
	50	0.438	0.485	0.047	11%	0.438	0.490	0.052	12%	0.438	0.495	0.057	13%	
	45	0.438	0.495	0.057	13%	0.438	0.500	0.062	14%	0.438	0.500	0.062	14%	
	40	0.438	0.320	-0.118	-27%	0.438	0.480	0.042	10%	0.438	0.490	0.052	12%	
	35	0.438	0.375	-0.063	-14%	0.438	0.370	-0.068	-16%	0.438	0.290	-0.148	-34%	
	30	0.438	0.200	-0.238	-54%	0.438	0.345	-0.093	-21%	0.438	0.275	-0.163	-37%	
	25	0.438	0.295	-0.143	-33%	0.438	0.265	-0.173	-39%	0.438	0.210	-0.228	-52%	
	20	0.438	0.300	-0.138	-32%	0.438	0.350	-0.088	-20%	0.438	0.290	-0.148	-34%	
	15	0.438	0.125	-0.313	-71%	0.438	0.300	-0.138	-32%	0.438	0.245	-0.193	-44%	
10	0.438	0.385	-0.053	-12%	0.438	0.180	-0.258	-59%	0.438	0.500	0.062	14%		
	5	0.438	0.314	-0.124	-28%	0.438	0.342	-0.096	-22%	0.438	0.202	-0.236	-54%	

Appendix 3 Comparison: Wing Wall Exterior - East

< South

Feet		440				445				450			
Belt #		Built	88	Diff	%	Built	89	Diff	%	Built	90	Diff	%
Above Waterline	69												
	60												
	50	0.438	0.500	0.062	14%	0.438	0.490	0.052	12%	0.438	0.495	0.057	13%
	45	0.438	0.495	0.057	13%	0.438	0.490	0.052	12%	0.438	0.490	0.052	12%
	40	0.438	0.495	0.057	13%	0.438	0.480	0.042	10%	0.438	0.485	0.047	11%
	35	0.438	0.325	-0.113	-26%	0.438	0.330	-0.108	-25%	0.438	0.325	-0.113	-26%
	30	0.438	0.275	-0.163	-37%	0.438	0.230	-0.208	-47%	0.438	0.298	-0.140	-32%
	25	0.438	0.395	-0.043	-10%	0.438	0.325	-0.113	-26%	0.438	0.250	-0.188	-43%
	20	0.438	0.285	-0.153	-35%	0.438	0.285	-0.153	-35%	0.438	0.225	-0.213	-49%
	15	0.438	0.150	-0.288	-66%	0.438	0.340	-0.098	-22%	0.438	0.330	-0.108	-25%
10	0.438	0.305	-0.133	-30%	0.438	0.385	-0.053	-12%	0.438	0.220	-0.218	-50%	
5	0.438	0.384	-0.054	-12%	0.438	0.206	-0.232	-53%	0.438	0.166	-0.272	-62%	

Appendix 3 Comparison: Wing Wall Exterior - East

< South

Feet		455				460				465			
Belt #	Built	91	Diff	%	Built	92	Diff	%	Built	93	Diff	%	
Above Waterline	69				0.500	0.510	0.010	2%					
	60				0.500	0.394	-0.106	-21%					
	50	0.438	0.480	0.042	10%	0.438	0.495	0.057	13%	0.438	0.500	0.062	14%
	45	0.438	0.500	0.062	14%	0.438	0.495	0.057	13%	0.438	0.495	0.057	13%
	40	0.438	0.495	0.057	13%	0.438	0.500	0.062	14%	0.438	0.495	0.057	13%
	35	0.438	0.370	-0.068	-16%	0.438	0.395	-0.043	-10%	0.438	0.490	0.052	12%
	30	0.438	0.365	-0.073	-17%	0.438	0.270	-0.168	-38%	0.438	0.495	0.057	13%
	25	0.438	0.315	-0.123	-28%	0.438	0.250	-0.188	-43%	0.438	0.495	0.057	13%
	20	0.438	0.190	-0.248	-57%	0.438	0.215	-0.223	-51%	0.438	0.280	-0.158	-36%
	15	0.438	0.335	-0.103	-24%	0.438	0.230	-0.208	-47%	0.438	0.325	-0.113	-26%
10	0.438	0.300	-0.138	-32%	0.438	0.295	-0.143	-33%	0.438	0.380	-0.058	-13%	
5	0.438	0.377	-0.061	-14%	0.438	0.408	-0.030	-7%	0.438	0.350	-0.088	-20%	

Appendix 3 Comparison: Wing Wall Exterior - East

< South

Feet		470				475					480			
Belt #		Built	94	Diff	%	Built	95	Diff	%	Built	96	Diff	%	
Above Waterline	69													
	60													
	50	0.438	0.485	0.047	11%	0.438	0.495	0.057	13%	0.438	0.490	0.052	12%	
	45	0.438	0.500	0.062	14%	0.438	0.500	0.062	14%	0.438	0.490	0.052	12%	
	40	0.438	0.495	0.057	13%	0.438	0.485	0.047	11%	0.438	0.495	0.057	13%	
	35	0.438	0.500	0.062	14%	0.438	0.400	-0.038	-9%	0.438	0.385	-0.053	-12%	
	30	0.438	0.495	0.057	13%	0.438	0.495	0.057	13%	0.438	0.495	0.057	13%	
	25	0.438	0.335	-0.103	-24%	0.438	0.490	0.052	12%	0.438	0.330	-0.108	-25%	
	20	0.438	0.185	-0.253	-58%	0.438	0.335	-0.103	-24%	0.438	0.320	-0.118	-27%	
	15	0.438	0.220	-0.218	-50%	0.438	0.330	-0.108	-25%	0.438	0.130	-0.308	-70%	
10	0.438	0.325	-0.113	-26%	0.438	0.300	-0.138	-32%	0.438	0.220	-0.218	-50%		
	5	0.438	0.396	-0.042	-10%	0.438	0.124	-0.314	-72%	0.438	0.242	-0.196	-45%	

Appendix 3 Comparison: Wing Wall Exterior - East

< South

Feet		485				490					495			
Belt #		Built	97	Diff	%	Built	98	Diff	%	Built	99	Diff	%	
Above Waterline	69													
	60													
	50	0.438	0.295	-0.143	-33%	0.438	0.800	0.362	83%	0.438	0.315	-0.123	-28%	
	45	0.438	0.285	-0.153	-35%	0.438	0.280	-0.158	-36%	0.438	0.290	-0.148	-34%	
	40	0.438	0.232	-0.206	-47%	0.438	0.270	-0.168	-38%	0.438	0.320	-0.118	-27%	
	35	0.438	0.315	-0.123	-28%	0.438	0.230	-0.208	-47%	0.438	0.205	-0.233	-53%	
	30	0.438	0.125	-0.313	-71%	0.438	0.220	-0.218	-50%	0.438	0.200	-0.238	-54%	
	25	0.438	0.196	-0.242	-55%	0.438	0.276	-0.162	-37%	0.438	0.295	-0.143	-33%	
	20	0.438	0.315	-0.123	-28%	0.438	0.325	-0.113	-26%	0.438	0.295	-0.143	-33%	
	15	0.438	0.325	-0.113	-26%	0.438	0.330	-0.108	-25%	0.438	0.330	-0.108	-25%	
10	0.438	0.295	-0.143	-33%	0.438	0.300	-0.138	-32%	0.438	0.230	-0.208	-47%		
	5	0.438	0.408	-0.030	-7%	0.438	0.256	-0.182	-42%	0.438	0.290	-0.148	-34%	

Appendix 3 Comparison: Wing Wall Exterior - East

< South

Feet		500				505				510			
Belt #		Built	100	Diff	%	Built	101	Diff	%	Built	102	Diff	%
		Above Waterline	69	0.500	0.526	0.026	5%						
60	0.500		0.368	-0.132	-26%								
50	0.438		0.315	-0.123	-28%	0.438	0.330	-0.108	-25%	0.438	0.200	-0.238	-54%
45	0.438		0.210	-0.228	-52%	0.438	0.315	-0.123	-28%	0.438	0.325	-0.113	-26%
40	0.438		0.275	-0.163	-37%	0.438	0.325	-0.113	-26%	0.438	0.325	-0.113	-26%
35	0.438		0.325	-0.113	-26%	0.438	0.297	-0.141	-32%	0.438	0.280	-0.158	-36%
30	0.438		0.125	-0.313	-71%	0.438	0.320	-0.118	-27%	0.438	0.325	-0.113	-26%
25	0.438		0.335	-0.103	-24%	0.438	0.230	-0.208	-47%	0.438	0.345	-0.093	-21%
20	0.438		0.490	0.052	12%	0.438	0.490	0.052	12%	0.438	0.485	0.047	11%
15	0.438		0.345	-0.093	-21%	0.438	0.385	-0.053	-12%	0.438	0.330	-0.108	-25%
10	0.438	0.380	-0.058	-13%	0.438	0.295	-0.143	-33%	0.438	0.300	-0.138	-32%	
5	0.438	0.280	-0.158	-36%	0.438	0.350	-0.088	-20%	0.438	0.350	-0.088	-20%	

Appendix 3 Comparison: Wing Wall Exterior - East

< South

Feet		515				520				525			
Belt #		Built	103	Diff	%	Built	104	Diff	%	Built	105	Diff	%
Above Waterline	69												
	60												
	50	0.438	0.250	-0.188	-43%	0.438	0.345	-0.093	-21%	0.438	0.505	0.067	15%
	45	0.438	0.315	-0.123	-28%	0.438	0.325	-0.113	-26%	0.438	0.515	0.077	18%
	40	0.438	0.225	-0.213	-49%	0.438	0.215	-0.223	-51%	0.438	0.505	0.067	15%
	35	0.438	0.330	-0.108	-25%	0.438	0.305	-0.133	-30%	0.438	0.485	0.047	11%
	30	0.438	0.405	-0.033	-8%	0.438	0.390	-0.048	-11%	0.438	0.485	0.047	11%
	25	0.438	0.345	-0.093	-21%	0.438	0.275	-0.163	-37%	0.438	0.480	0.042	10%
	20	0.438	0.390	-0.048	-11%	0.438	0.375	-0.063	-14%	0.438	0.500	0.062	14%
	15	0.438	0.330	-0.108	-25%	0.438	0.220	-0.218	-50%	0.438	0.295	-0.143	-33%
10	0.438	0.300	-0.138	-32%	0.438	0.245	-0.193	-44%	0.438	0.300	-0.138	-32%	
	5	0.438	0.400	-0.038	-9%	0.438	0.410	-0.028	-6%	0.438	0.394	-0.044	-10%

Appendix 3 Comparison: Wing Wall Exterior - East

< South

Feet		530				535				540			
Belt #	Built	106	Diff	%	Built	107	Diff	%	Built	108	Diff	%	
Above Waterline	69								0.500	0.514	0.014	3%	
	60								0.500	0.376	-0.124	-25%	
	50	0.438	0.505	0.067	15%	0.438	0.505	0.067	15%	0.438	0.515	0.077	18%
	45	0.438	0.510	0.072	16%	0.438	0.515	0.077	18%	0.438	0.515	0.077	18%
	40	0.438	0.515	0.077	18%	0.438	0.510	0.072	16%	0.438	0.515	0.077	18%
	35	0.438	0.510	0.072	16%	0.438	0.510	0.072	16%	0.438	0.515	0.077	18%
	30	0.438	0.505	0.067	15%	0.438	0.515	0.077	18%	0.438	0.515	0.077	18%
	25	0.438	0.510	0.072	16%	0.438	0.490	0.052	12%	0.438	0.510	0.072	16%
	20	0.438	0.500	0.062	14%	0.438	0.500	0.062	14%	0.438	0.505	0.067	15%
	15	0.438	0.180	-0.258	-59%	0.438	0.220	-0.218	-50%	0.438	0.350	-0.088	-20%
10	0.438	0.230	-0.208	-47%	0.438	0.185	-0.253	-58%	0.438	0.345	-0.093	-21%	
5	0.438	0.412	-0.026	-6%	0.438	0.290	-0.148	-34%	0.438	0.350	-0.088	-20%	

Appendix 3 Comparison: Wing Wall Exterior - East

< South

Feet		545				550					555			
Belt #		Built	109	Diff	%	Built	110	Diff	%	Built	111	Diff	%	
Above Waterline	69													
	60													
	50	0.438	0.515	0.077	18%	0.438	0.515	0.077	18%	0.438	0.515	0.077	18%	
	45	0.438	0.515	0.077	18%	0.438	0.515	0.077	18%	0.438	0.515	0.077	18%	
	40	0.438	0.515	0.077	18%	0.438	0.515	0.077	18%	0.438	0.515	0.077	18%	
	35	0.438	0.510	0.072	16%	0.438	0.510	0.072	16%	0.438	0.510	0.072	16%	
	30	0.438	0.510	0.072	16%	0.438	0.515	0.077	18%	0.438	0.510	0.072	16%	
	25	0.438	0.510	0.072	16%	0.438	0.505	0.067	15%	0.438	0.510	0.072	16%	
	20	0.438	0.505	0.067	15%	0.438	0.505	0.067	15%	0.438	0.510	0.072	16%	
	15	0.438	0.225	-0.213	-49%	0.438	0.340	-0.098	-22%	0.438	0.165	-0.273	-62%	
10	0.438	0.290	-0.148	-34%	0.438	0.370	-0.068	-16%	0.438	0.360	-0.078	-18%		
	5	0.438	0.328	-0.110	-25%	0.438	0.350	-0.088	-20%	0.438	0.346	-0.092	-21%	

Appendix 3 Comparison: Wing Wall Exterior - East

< South

Feet		560				565				570			
Belt #	Built	112	Diff	%	Built	113	Diff	%	Built	114	Diff	%	
Above Waterline	69												
	60												
	50	0.438	0.355	-0.083	-19%	0.438	0.355	-0.083	-19%	0.438	0.550	0.112	26%
	45	0.438	0.350	-0.088	-20%	0.438	0.300	-0.138	-32%	0.438	0.350	-0.088	-20%
	40	0.438	0.220	-0.218	-50%	0.438	0.380	-0.058	-13%	0.438	0.235	-0.203	-46%
	35	0.438	0.335	-0.103	-24%	0.438	0.315	-0.123	-28%	0.438	0.315	-0.123	-28%
	30	0.438	0.335	-0.103	-24%	0.438	0.355	-0.083	-19%	0.438	0.340	-0.098	-22%
	25	0.438	0.370	-0.068	-16%	0.438	0.290	-0.148	-34%	0.438	0.335	-0.103	-24%
	20	0.438	0.510	0.072	16%	0.438	0.510	0.072	16%	0.438	0.510	0.072	16%
	15	0.438	0.485	0.047	11%	0.438	0.315	-0.123	-28%	0.438	0.360	-0.078	-18%
10	0.438	0.215	-0.223	-51%	0.438	0.260	-0.178	-41%	0.438	0.290	-0.148	-34%	
5	0.438	0.360	-0.078	-18%	0.438	0.408	-0.030	-7%	0.438	0.272	-0.166	-38%	

Appendix 3 Comparison: Wing Wall Exterior - East

< South

Feet		575				580				585			
Belt #	Built	115	Diff	%	Built	116	Diff	%	Built	117	Diff	%	
Above Waterline	69				0.500	0.516	0.016	3%					
	60				0.500	0.324	-0.176	-35%					
	50	0.438	0.300	-0.138	-32%	0.438	0.325	-0.113	-26%	0.438	0.360	-0.078	-18%
	45	0.438	0.340	-0.098	-22%	0.438	0.250	-0.188	-43%	0.438	0.405	-0.033	-8%
	40	0.438	0.325	-0.113	-26%	0.438	0.395	-0.043	-10%	0.438	0.315	-0.123	-28%
	35	0.438	0.290	-0.148	-34%	0.438	0.305	-0.133	-30%	0.438	0.315	-0.123	-28%
	30	0.438	0.240	-0.198	-45%	0.438	0.380	-0.058	-13%	0.438	0.220	-0.218	-50%
	25	0.438	0.270	-0.168	-38%	0.438	0.335	-0.103	-24%	0.438	0.315	-0.123	-28%
	20	0.438	0.510	0.072	16%	0.438	0.320	-0.118	-27%	0.438	0.232	-0.206	-47%
	15	0.438	0.320	-0.118	-27%	0.438	0.320	-0.118	-27%	0.438	0.148	-0.290	-66%
10	0.438	0.295	-0.143	-33%	0.438	0.302	-0.136	-31%	0.438	0.285	-0.153	-35%	
5	0.438	0.426	-0.012	-3%	0.438	0.270	-0.168	-38%	0.438	0.274	-0.164	-37%	

Appendix 3 Comparison: Wing Wall Exterior - East

< South

Feet		590				595				600			
Belt #		Built	118	Diff	%	Built	119	Diff	%	Built	120	Diff	%
Above Waterline	69												
	60												
	50	0.438	0.505	0.067	15%	0.438	0.510	0.072	16%	0.438	0.510	0.072	16%
	45	0.438	0.510	0.072	16%	0.438	0.505	0.067	15%	0.438	0.505	0.067	15%
	40	0.438	0.510	0.072	16%	0.438	0.500	0.062	14%	0.438	0.510	0.072	16%
	35	0.438	0.515	0.077	18%	0.438	0.515	0.077	18%	0.438	0.515	0.077	18%
	30	0.438	0.340	-0.098	-22%	0.438	0.440	0.002	0%	0.438	0.405	-0.033	-8%
	25	0.438	0.300	-0.138	-32%	0.438	0.370	-0.068	-16%	0.438	0.510	0.072	16%
	20	0.438	0.415	-0.023	-5%	0.438	0.445	0.007	2%	0.438	0.315	-0.123	-28%
	15	0.438	0.315	-0.123	-28%	0.438	0.233	-0.205	-47%	0.438	0.235	-0.203	-46%
10	0.438	0.235	-0.203	-46%	0.438	0.220	-0.218	-50%	0.438	0.270	-0.168	-38%	
	5	0.438	0.344	-0.094	-21%	0.438	0.290	-0.148	-34%	0.438	0.350	-0.088	-20%

Appendix 3 Comparison: Wing Wall Exterior - East

< South

Feet		605				610				615			
Belt #	Built	121	Diff	%	Built	122	Diff	%	Built	123	Diff	%	
Above Waterline	69												
	60												
	50	0.438	0.505	0.067	15%	0.438	0.510	0.072	16%	0.438	0.512	0.074	17%
	45	0.438	0.505	0.067	15%	0.438	0.515	0.077	18%	0.438	0.515	0.077	18%
	40	0.438	0.460	0.022	5%	0.438	0.510	0.072	16%	0.438	0.510	0.072	16%
	35	0.438	0.500	0.062	14%	0.438	0.510	0.072	16%	0.438	0.510	0.072	16%
	30	0.438	0.325	-0.113	-26%	0.438	0.355	-0.083	-19%	0.438	0.445	0.007	2%
	25	0.438	0.510	0.072	16%	0.438	0.515	0.077	18%	0.438	0.210	-0.228	-52%
	20	0.438	0.236	-0.202	-46%	0.438	0.330	-0.108	-25%	0.438	0.150	-0.288	-66%
	15	0.438	0.222	-0.216	-49%	0.438	0.323	-0.115	-26%	0.438	0.155	-0.283	-65%
10	0.438	0.285	-0.153	-35%	0.438	0.290	-0.148	-34%	0.438	0.220	-0.218	-50%	
5	0.438	0.354	-0.084	-19%	0.438	0.256	-0.182	-42%	0.438	0.364	-0.074	-17%	

Appendix 3 Comparison: Wing Wall Exterior - East

< South

Feet		620				625					630			
Belt #		Built	124	Diff	%	Built	125	Diff	%	Built	126	Diff	%	
Above Waterline	69	0.500	0.508	0.008	2%									
	60	0.500	0.388	-0.112	-22%									
	50	0.438	0.505	0.067	15%	0.438	0.512	0.074	17%	0.438	0.515	0.077	18%	
	45	0.438	0.512	0.074	17%	0.438	0.505	0.067	15%	0.438	0.510	0.072	16%	
	40	0.438	0.425	-0.013	-3%	0.438	0.505	0.067	15%	0.438	0.515	0.077	18%	
	35	0.438	0.510	0.072	16%	0.438	0.505	0.067	15%	0.438	0.505	0.067	15%	
	30	0.438	0.355	-0.083	-19%	0.438	0.355	-0.083	-19%	0.438	0.340	-0.098	-22%	
	25	0.438	0.385	-0.053	-12%	0.438	0.260	-0.178	-41%	0.438	0.340	-0.098	-22%	
	20	0.438	0.320	-0.118	-27%	0.438	0.210	-0.228	-52%	0.438	0.235	-0.203	-46%	
	15	0.438	0.210	-0.228	-52%	0.438	0.185	-0.253	-58%	0.438	0.210	-0.228	-52%	
10	0.438	0.310	-0.128	-29%	0.438	0.300	-0.138	-32%	0.438	0.375	-0.063	-14%		
	5	0.438	0.486	0.048	11%	0.438	0.240	-0.198	-45%	0.438	0.362	-0.076	-17%	

Appendix 3 Comparison: Wing Wall Exterior - East

< South

Feet		635				640				645			
Belt #		Built	127	Diff	%	Built	128	Diff	%	Built	129	Diff	%
Above Waterline	69												
	60												
	50	0.438	0.515	0.077	18%	0.438	0.505	0.067	15%	0.438	0.510	0.072	16%
	45	0.438	0.500	0.062	14%	0.438	0.200	-0.238	-54%	0.438	0.265	-0.173	-39%
	40	0.438	0.510	0.072	16%	0.438	0.325	-0.113	-26%	0.438	0.220	-0.218	-50%
	35	0.438	0.510	0.072	16%	0.438	0.325	-0.113	-26%	0.438	0.350	-0.088	-20%
	30	0.438	0.450	0.012	3%	0.438	0.320	-0.118	-27%	0.438	0.390	-0.048	-11%
	25	0.438	0.255	-0.183	-42%	0.438	0.322	-0.116	-26%	0.438	0.235	-0.204	-46%
	20	0.438	0.300	-0.138	-32%	0.438	0.245	-0.193	-44%	0.438	0.355	-0.083	-19%
	15	0.438	0.395	-0.043	-10%	0.438	0.395	-0.043	-10%	0.438	0.380	-0.058	-13%
10	0.438	0.370	-0.068	-16%	0.438	0.230	-0.208	-47%	0.438	0.300	-0.138	-32%	
5	0.438	0.296	-0.142	-32%	0.438	0.264	-0.174	-40%	0.438	0.394	-0.044	-10%	

Appendix 3 Comparison: Wing Wall Exterior - East

< South

Feet		650				655				660			
Belt #	Built	130	Diff	%	Built	131	Diff	%	Built	132	Diff	%	
Above Waterline	69								0.500	0.508	0.008	2%	
	60								0.500	0.499	-0.001	0%	
	50	0.438	0.510	0.072	16%	0.438	0.235	-0.203	-46%	0.438	0.375	-0.063	-14%
	45	0.438	0.340	-0.098	-22%	0.438	0.315	-0.123	-28%	0.438	0.205	-0.233	-53%
	40	0.438	0.235	-0.203	-46%	0.438	0.350	-0.088	-20%	0.438	0.365	-0.073	-17%
	35	0.438	0.220	-0.218	-50%	0.438	0.485	0.047	11%	0.438	0.286	-0.152	-35%
	30	0.438	0.260	-0.178	-41%	0.438	0.310	-0.128	-29%	0.438	0.300	-0.138	-32%
	25	0.438	0.335	-0.103	-24%	0.438	0.400	-0.038	-9%	0.438	0.230	-0.208	-47%
	20	0.438	0.425	-0.013	-3%	0.438	0.305	-0.133	-30%	0.438	0.215	-0.223	-51%
	15	0.438	0.235	-0.203	-46%	0.438	0.148	-0.290	-66%	0.438	0.305	-0.133	-30%
10	0.438	0.290	-0.148	-34%	0.438	0.300	-0.138	-32%	0.438	0.255	-0.183	-42%	
5	0.438	0.232	-0.206	-47%	0.438	0.412	-0.026	-6%	0.438	0.248	-0.190	-43%	

Appendix 3 Comparison: Wing Wall Exterior - East

< South

Feet		665				670					675			
Belt #		Built	133	Diff	%	Built	134	Diff	%	Built	135	Diff	%	
Above Waterline	69													
	60													
	50	0.438	0.460	0.022	5%	0.438	0.305	-0.133	-30%	0.438	0.340	-0.098	-22%	
	45	0.438	0.370	-0.068	-16%	0.438	0.340	-0.098	-22%	0.438	0.180	-0.258	-59%	
	40	0.438	0.450	0.012	3%	0.438	0.325	-0.113	-26%	0.438	0.260	-0.178	-41%	
	35	0.438	0.385	-0.053	-12%	0.438	0.235	-0.203	-46%	0.438	0.360	-0.078	-18%	
	30	0.438	0.365	-0.073	-17%	0.438	0.235	-0.203	-46%	0.438	0.370	-0.068	-16%	
	25	0.438	0.355	-0.083	-19%	0.438	0.390	-0.048	-11%	0.438	0.385	-0.053	-12%	
	20	0.438	0.185	-0.253	-58%	0.438	0.300	-0.138	-32%	0.438	0.310	-0.128	-29%	
	15	0.438	0.210	-0.228	-52%	0.438	0.400	-0.038	-9%	0.438	0.146	-0.292	-67%	
10	0.438	0.300	-0.138	-32%	0.438	0.295	-0.143	-33%	0.438	0.275	-0.163	-37%		
	5	0.438	0.278	-0.160	-37%	0.438	0.408	-0.030	-7%	0.438	0.406	-0.032	-7%	

Appendix 3 Comparison: Wing Wall Exterior - East

< South

Feet		680				685					690			
Belt #		Built	136	Diff	%	Built	137	Diff	%	Built	138	Diff	%	
Above Waterline	69													
	60													
	50	0.438	0.245	-0.193	-44%	0.438	0.330	-0.108	-25%	0.438	0.370	-0.068	-16%	
	45	0.438	0.350	-0.088	-20%	0.438	0.365	-0.073	-17%	0.438	0.335	-0.103	-24%	
	40	0.438	0.330	-0.108	-25%	0.438	0.360	-0.078	-18%	0.438	0.346	-0.092	-21%	
	35	0.438	0.330	-0.108	-25%	0.438	0.350	-0.088	-20%	0.438	0.330	-0.108	-25%	
	30		Box				Box				Box			
	25		Box				Box				Box			
	20		Box				Box				Box			
	15	0.438	0.230	-0.208	-47%	0.438	0.210	-0.228	-52%	0.438	0.140	-0.298	-68%	
10	0.438	0.295	-0.143	-33%	0.438	0.300	-0.138	-32%	0.438	0.295	-0.143	-33%		
	5	0.438	0.384	-0.054	-12%	0.438	0.226	-0.212	-48%	0.438	0.342	-0.096	-22%	

Appendix 3 Comparison: Wing Wall Exterior - East

< South

Feet		695				700				705			
Belt #		Built	139	Diff	%	Built	140	Diff	%	Built	141	Diff	%
Above Waterline	69					0.500	0.512	0.012	2%				
	60					0.500	0.512	0.012	2%				
	50	0.438	0.185	-0.253	-58%	0.438	0.245	-0.193	-44%	0.438	0.350	-0.088	-20%
	45	0.438	0.360	-0.078	-18%	0.438	0.260	-0.178	-41%	0.438	0.235	-0.203	-46%
	40	0.438	0.220	-0.218	-50%	0.438	0.244	-0.194	-44%	0.438	0.345	-0.093	-21%
	35	0.438	0.330	-0.108	-25%	0.438	0.350	-0.088	-20%	0.438	0.380	-0.058	-13%
	30		Box				Box				Box		
	25		Box				Box				Box		
	20		Box				Box				Box		
	15	0.438	0.365	-0.073	-17%	0.438	0.390	-0.048	-11%	0.438	0.160	-0.278	-63%
10	0.438	0.305	-0.133	-30%	0.438	0.300	-0.138	-32%	0.438	0.295	-0.143	-33%	
	5	0.438	0.382	-0.056	-13%	0.438	0.402	-0.036	-8%	0.438	0.284	-0.154	-35%

Appendix 3 Comparison: Wing Wall Exterior - East

< South

Feet		710				715					720			
Belt #		Built	142	Diff	%	Built	143	Diff	%	Built	144	Diff	%	
Above Waterline	69													
	60													
	50	0.438	0.370	-0.068	-16%	0.438	0.382	-0.056	-13%	0.438	0.342	-0.096	-22%	
	45	0.438	0.380	-0.058	-13%	0.438	0.330	-0.108	-25%	0.438	0.354	-0.084	-19%	
	40	0.438	0.415	-0.023	-5%	0.438	0.435	-0.003	-1%	0.438	0.236	-0.202	-46%	
	35	0.438	0.395	-0.043	-10%	0.438	0.380	-0.058	-13%	0.438	0.275	-0.163	-37%	
	30		Box				Box			0.438	0.332	-0.106	-24%	
	25		Box				Box			0.438	0.240	-0.198	-45%	
	20		Box				Box			0.438	0.300	-0.138	-32%	
	15	0.438	0.305	-0.133	-30%	0.438	0.205	-0.233	-53%	0.438	0.300	-0.138	-32%	
10	0.438	0.300	-0.138	-32%	0.438	0.295	-0.143	-33%	0.438	0.220	-0.218	-50%		
	5	0.438	0.342	-0.096	-22%	0.438	0.382	-0.056	-13%	0.438	0.266	-0.172	-39%	

Appendix 3 Comparison: Wing Wall Exterior - East

< South

Feet		725				730					735			
Belt #		Built	145	Diff	%	Built	146	Diff	%	Built	147	Diff	%	
Above Waterline	69													
	60													
	50	0.438	0.335	-0.103	-24%	0.438	0.350	-0.088	-20%	0.438	0.450	0.012	3%	
	45	0.438	0.275	-0.163	-37%	0.438	0.310	-0.128	-29%	0.438	0.360	-0.078	-18%	
	40	0.438	0.350	-0.088	-20%	0.438	0.270	-0.168	-38%	0.438	0.200	-0.238	-54%	
	35	0.438	0.310	-0.128	-29%	0.438	0.335	-0.103	-24%	0.438	0.185	-0.253	-58%	
	30	0.438	0.285	-0.153	-35%	0.438	0.360	-0.078	-18%	0.438	0.260	-0.178	-41%	
	25	0.438	0.375	-0.063	-14%	0.438	0.385	-0.053	-12%	0.438	0.215	-0.223	-51%	
	20	0.438	0.325	-0.113	-26%	0.438	0.385	-0.053	-12%	0.438	0.290	-0.148	-34%	
	15	0.438	0.325	-0.113	-26%	0.438	0.230	-0.208	-47%	0.438	0.160	-0.278	-63%	
10	0.438	0.270	-0.168	-38%	0.438	0.290	-0.148	-34%	0.438	0.265	-0.173	-39%		
	5	0.438	0.202	-0.236	-54%	0.438	0.394	-0.044	-10%	0.438	0.246	-0.192	-44%	

Appendix 3 Comparison: Wing Wall Exterior - East

< South

Feet		740				745					750			
Belt #	Built	148	Diff	%		Built	149	Diff	%		Built	150	Diff	%
Above Waterline	69	0.500	0.504	0.004	1%									
	60	0.500	0.444	-0.056	-11%									
	50	0.438	0.395	-0.043	-10%	0.438	0.275	-0.163	-37%	0.438	0.355	-0.083	-19%	
	45	0.438	0.385	-0.053	-12%	0.438	0.362	-0.076	-17%	0.438	0.375	-0.063	-14%	
	40	0.438	0.420	-0.018	-4%	0.438	0.342	-0.096	-22%	0.438	0.340	-0.098	-22%	
	35	0.438	0.255	-0.183	-42%	0.438	0.285	-0.153	-35%	0.438	0.405	-0.033	-8%	
	30	0.438	0.360	-0.078	-18%	0.438	0.195	-0.243	-55%	0.438	0.320	-0.118	-27%	
	25	0.438	0.232	-0.206	-47%	0.438	0.330	-0.108	-25%	0.438	0.450	0.012	3%	
20	0.438	0.380	-0.058	-13%	0.438	0.390	-0.048	-11%	0.438	0.410	-0.028	-6%		
15	0.438	0.190	-0.248	-57%	0.438	0.215	-0.223	-51%	0.438	0.210	-0.228	-52%		
10	0.438	0.295	-0.143	-33%	0.438	0.300	-0.138	-32%	0.438	0.220	-0.218	-50%		
5	0.438	0.334	-0.104	-24%	0.438	0.264	-0.174	-40%	0.438	0.200	-0.238	-54%		

Appendix 3 Comparison: Wing Wall Exterior - East

< South

Feet		755				760				765			
Belt #	Built	151	Diff	%	Built	152	Diff	%	Built	153	Diff	%	
Above Waterline	69												
	60												
	50	0.438	0.445	0.007	2%	0.438	0.325	-0.113	-26%	0.438	0.258	-0.180	-41%
	45	0.438	0.260	-0.178	-41%	0.438	0.440	0.002	0%	0.438	0.485	0.047	11%
	40	0.438	0.395	-0.043	-10%	0.438	0.355	-0.083	-19%	0.438	0.305	-0.133	-30%
	35	0.438	0.245	-0.193	-44%	0.438	0.360	-0.078	-18%	0.438	0.315	-0.123	-28%
	30	0.438	0.455	0.017	4%	0.438	0.345	-0.093	-21%	0.438	0.445	0.007	2%
	25	0.438	0.335	-0.103	-24%	0.438	0.355	-0.083	-19%	0.438	0.250	-0.188	-43%
	20	0.438	0.385	-0.053	-12%	0.438	0.400	-0.038	-9%	0.438	0.435	-0.003	-1%
	15	0.438	0.205	-0.233	-53%	0.438	0.200	-0.238	-54%	0.438	0.275	-0.163	-37%
10	0.438	0.215	-0.223	-51%	0.438	0.295	-0.143	-33%	0.438	0.265	-0.173	-39%	
	5	0.438	0.364	-0.074	-17%	0.438	0.286	-0.152	-35%	0.438	0.324	-0.114	-26%

Appendix 3 Comparison: Wing Wall Exterior - East

< South

Feet		770				775					780			
Belt #		Built	154	Diff	%	Built	155	Diff	%	Built	156	Diff	%	
Above Waterline	69									0.500	0.508	0.008	2%	
	60									0.500	0.438	-0.062	-12%	
	50	0.438	0.290	-0.148	-34%	0.438	0.380	-0.058	-13%	0.438	0.315	-0.123	-28%	
	45	0.438	0.500	0.062	14%	0.438	0.495	0.057	13%	0.438	0.440	0.002	0%	
	40	0.438	0.430	-0.008	-2%	0.438	0.275	-0.163	-37%	0.438	0.290	-0.148	-34%	
	35	0.438	0.325	-0.113	-26%	0.438	0.325	-0.113	-26%	0.438	0.355	-0.083	-19%	
	30	0.438	0.325	-0.113	-26%	0.438	0.455	0.017	4%	0.438	0.340	-0.098	-22%	
	25	0.438	0.490	0.052	12%	0.438	0.380	-0.058	-13%	0.438	0.334	-0.104	-24%	
	20	0.438	0.380	-0.058	-13%	0.438	0.275	-0.163	-37%	0.438	0.300	-0.138	-32%	
	15	0.438	0.295	-0.143	-33%	0.438	0.155	-0.283	-65%	0.438	0.215	-0.223	-51%	
10	0.438	0.350	-0.088	-20%	0.438	0.300	-0.138	-32%	0.438	0.300	-0.138	-32%		
	5	0.438	0.301	-0.137	-31%	0.438	0.321	-0.117	-27%	0.438	0.276	-0.162	-37%	

Appendix 3 Comparison: Wing Wall Exterior - East

		East Wing Wall Exterior													
		< South													
Feet		785				790					795				
Belt #	Built	157	Diff	%		Built	158	Diff	%		Built	159	Diff	%	
Above Waterline	69														
	60														
	50	0.438	0.320	-0.118	-27%		0.438	0.300	-0.138	-32%		0.438	0.395	-0.043	-10%
	45	0.438	0.445	0.007	2%		0.438	0.445	0.007	2%		0.438	0.365	-0.073	-17%
	40	0.438	0.485	0.047	11%		0.438	0.345	-0.093	-21%		0.438	0.400	-0.038	-9%
	35	0.438	0.335	-0.103	-24%		0.438	0.320	-0.118	-27%		0.438	0.390	-0.048	-11%
	30	0.438	0.335	-0.103	-24%		0.438	0.295	-0.143	-33%		0.438	0.395	-0.043	-10%
	25	0.438	0.420	-0.018	-4%		0.438	0.295	-0.143	-33%		0.438	0.335	-0.103	-24%
	20	0.438	0.345	-0.093	-21%		0.438	0.315	-0.123	-28%		0.438	0.305	-0.133	-30%
	15	0.438	0.200	-0.238	-54%		0.438	0.200	-0.238	-54%		0.438	0.280	-0.158	-36%
	10	0.438	0.220	-0.218	-50%		0.438	0.295	-0.143	-33%		0.438	0.245	-0.193	-44%
	5	0.438	0.355	-0.083	-19%		0.438	0.270	-0.168	-38%		0.438	0.390	-0.048	-11%

Appendix 3 Comparison: Wing Wall Exterior - East

It looks like this was just an extra page printed from the spreadsheet with no data on it

< South

	Feet		North	
	Belt #		Belt #	
	69		69	
	60		60	
	50		50	
	45		45	
	40		40	
	35		35	
	30		30	
	25		25	
	20		20	
	15		15	
	10		10	
	5		5	

Appendix 4: Wing Wall Exterior - West

Wing Wall Exterior UTs taken January 2016 (see Figure 3 in report). This data was not revised in August 2016.

< North		West Wing Wall Exterior														
		795	790	785	780	775	770	765	760	755	750	745	740	735	730	725
Feet	Belt #	159	158	157	156	155	154	153	152	151	150	149	148	147	146	145
Height - 63 ft	69				0.524								0.514			
	60				0.496								0.494			
	50	0.390	0.505	0.500	0.510	0.500	0.500	0.500	0.520	0.200	0.420	0.225	0.506	0.380	0.180	0.280
	45	0.325	0.500	0.500	0.495	0.505	0.495	0.500	0.520	0.520	0.530	0.525	0.500	0.525	0.530	0.520
	40	0.375	0.500	0.515	0.510	0.515	0.515	0.515	0.525	0.530	0.525	0.530	0.674	0.530	0.525	0.530
	35	0.365	0.340	0.365	0.345	0.200	0.315	0.220	0.390	0.300	0.275	0.260	0.390	0.395	0.360	0.230
	30	0.315	0.355	0.355	0.222	0.470	0.390	0.225	0.270	0.275	0.295	0.250	0.340	0.355	0.300	0.295
	25	0.320	0.395	0.370	0.260	0.340	0.200	0.265	0.315	0.280	0.270	0.275	0.124	0.310	0.225	0.305
	20	0.385	0.365	0.365	0.297	0.360	0.230	0.280	0.295	0.410	0.350	0.295	0.330	0.390	0.420	0.405
	15	0.300	0.170	0.205	0.318	0.205	0.305	0.230	0.235	0.380	0.390	0.315	0.365	0.225	0.245	0.275
10	0.395	0.210	0.200	0.330	0.210	0.385	0.255	0.395	0.270	0.290	0.305	0.260	0.305	0.240	0.380	
Draft - 6 ft	5	0.256	0.316	0.298	0.264	0.232	0.376	0.301	0.238	0.340	0.232	0.361	0.286	0.260	0.350	0.332

Appendix 4: Wing Wall Exterior - West

< North

		720	715	710	705	700	695	690	685	680	675	670	665	660	655	650
Feet																
Belt #		144	143	142	141	140	139	138	137	136	135	134	133	132	131	130
Height - 63 ft	69					0.506								0.510		
	60					0.490								0.494		
	50	0.500	0.500	0.500	0.495	0.495	0.500	0.495	0.500	0.500	0.495	0.500	0.495	0.495	0.490	0.490
	45	0.335	0.270	0.265	0.315	0.335	0.370	0.340	0.305	0.300	0.240	0.255	0.235	0.290	0.355	0.340
	40	0.340	0.280	0.285	0.345	0.310	0.340	0.370	0.350	0.195	0.270	0.235	0.265	0.345	0.285	0.250
	35	0.365	0.375	0.340	0.365	0.350	0.335	0.365	0.355	0.220	0.395	0.340	0.305	0.380	0.325	0.295
	30	Box	Box	Box	Box	Box	Box	Box	Box	0.200	0.275	0.345	0.210	0.330	0.334	0.245
	25	Box	Box	Box	Box	Box	Box	Box	Box	0.210	0.220	0.260	0.220	0.446	0.340	0.265
20	Box	Box	Box	Box	Box	Box	Box	Box	0.500	0.270	0.330	0.450	0.291	0.280	0.250	
15	0.230	0.375	0.300	0.240	0.260	0.245	0.220	0.220	0.230	0.245	0.310	0.375	0.310	0.195	0.230	
10	0.305	0.320	0.315	0.220	0.260	0.280	0.225	0.230	0.370	0.525	0.305	0.315	0.320	0.220	0.235	
Draft - 6 ft	5	0.328	0.276	0.288	0.244	0.322	0.366	0.364	0.346	0.358	0.336	0.350	0.270	0.184	0.286	0.454

Appendix 4: Wing Wall Exterior - West

< North

		645	640	635	630	625	620	615	610	605	600	595	590	585	580	575	
Feet		129	128	127	126	125	124	123	122	121	120	119	118	117	116	115	
Belt #																	
Height - 63 ft	69						0.510								0.510		
	60						0.498								0.510		
	50	0.490	0.495	0.500	0.225	0.200	0.312	0.515	0.520	0.515	0.495	0.495	0.495	0.495	0.494	0.495	
	45	0.250	0.260	0.440	0.240	0.455	0.280	0.520	0.515	0.515	0.495	0.495	0.495	0.495	0.495	0.495	0.385
	40	0.200	0.245	0.435	0.255	0.450	0.300	0.520	0.500	0.520	0.495	0.495	0.495	0.345	0.412	0.345	
	35	0.380	0.375	0.375	0.295	0.355	0.250	0.300	0.365	0.395	0.495	0.495	0.495	0.365	0.372	0.310	
	30	0.340	0.390	0.380	0.275	0.385	0.258	0.390	0.375	0.380	0.495	0.495	0.495	0.380	0.316	0.300	
	25	0.224	0.215	0.335	0.200	0.285	0.238	0.385	0.285	0.350	0.260	0.305	0.280	0.265	0.320	0.250	
20	0.275	0.335	0.300	0.255	0.265	0.287	0.210	0.300	0.270	0.325	0.285	0.355	0.360	0.312	0.340		
15	0.205	0.300	0.280	0.260	0.300	0.270	0.310	0.235	0.305	0.225	0.250	0.310	0.315	0.318	0.245		
10	0.375	0.225	0.315	0.220	0.245	0.310	0.305	0.220	0.190	0.270	0.490	0.295	0.300	0.250	0.310		
Draft - 6 ft	5	0.406	0.302	0.406	0.326	0.412	0.358	0.299	0.160	0.350	2.820	0.350	0.234	0.322	0.306	0.264	

Appendix 4: Wing Wall Exterior - West

< North

		570	565	560	555	550	545	540	535	530	525	520	515	510	505	500
Feet																
Belt #		114	113	112	111	110	109	108	107	106	105	104	103	102	101	100
Height - 63 ft	69							0.510								0.498
	60							0.268								0.434
	50	0.310	0.330	0.280	0.500	0.500	0.500	0.498	0.495	0.500	0.500	0.495	0.495	0.500	0.500	0.546
	45	0.315	0.300	0.295	0.495	0.500	0.500	0.495	0.500	0.500	0.500	0.495	0.500	0.495	0.500	0.500
	40	0.375	0.295	0.315	0.340	0.290	0.295	0.310	0.305	0.300	0.300	0.305	0.295	0.285	0.350	0.299
	35	0.200	0.355	0.360	0.360	0.275	0.305	0.322	0.200	0.280	0.205	0.335	0.335	0.370	0.360	0.290
	30	0.285	0.300	0.375	0.320	0.300	0.275	0.305	0.285	0.300	0.290	0.390	0.345	0.285	0.350	0.320
	25	0.330	0.340	0.375	0.330	0.400	0.260	0.300	0.250	0.275	0.300	0.360	0.370	0.435	0.325	0.188
20	0.190	0.395	0.420	0.285	0.310	0.300	0.297	0.265	0.300	0.380	0.245	0.295	0.370	0.360	0.310	
15	0.240	0.315	0.290	0.265	0.265	0.265	0.254	0.265	0.260	0.235	0.260	0.230	0.235	0.200	0.278	
10	0.215	0.310	0.310	0.395	0.300	0.400	0.405	0.255	0.400	0.390	0.385	0.385	0.230	0.245	0.300	
Draft - 6 ft	5	0.286	0.310	0.350	0.318	0.232	0.350	0.370	0.305	0.220	0.202	0.322	0.203	0.270	0.394	0.214

Appendix 4: Wing Wall Exterior - West

< North

		Feet	495	490	485	480	475	470	465	460	455	450	445	440	435	430	425
		Belt #	99	98	97	96	95	94	93	92	91	90	89	88	87	86	85
Height - 63 ft	69									0.502							
	60									0.492							
	50	0.495	0.215	0.300	0.500	0.500	0.500	0.215	0.500	0.500	0.500	0.320	0.230	0.500	0.500	0.500	
	45	0.485	0.300	0.350	0.295	0.315	0.300	0.250	0.300	0.355	0.360	0.355	0.380	0.500	0.500	0.500	
	40	0.305	0.325	0.285	0.380	0.340	0.250	0.350	0.366	0.205	0.390	0.330	0.380	0.430	0.305	0.465	
	35	0.390	0.445	0.445	0.230	0.315	0.255	0.200	0.430	0.300	0.150	0.295	0.210	0.310	0.395	0.245	
	30	0.335	0.395	0.355	0.395	0.295	0.335	0.330	0.350	0.430	0.360	0.340	0.345	Box	Box	Box	
	25	0.275	0.330	0.220	0.300	0.450	0.340	0.260	0.328	0.330	0.120	0.205	0.260	Box	Box	Box	
20	0.410	0.435	0.340	0.330	0.370	0.405	0.220	0.281	0.300	0.270	0.335	0.375	Box	Box	Box		
15	0.340	0.310	0.375	0.260	0.370	0.300	0.300	0.305	0.295	0.130	0.370	0.375	0.295	0.280	0.300		
10	0.340	0.240	0.235	0.305	0.220	0.320	0.385	0.240	0.265	0.305	0.275	0.240	0.305	0.355	0.230		
Draft - 6 ft	5	0.362	0.374	0.264	0.224	0.208	0.350	0.340	0.304	0.282	0.350	0.390	0.230	0.216	0.216	0.428	

Appendix 4: Wing Wall Exterior - West

< North

		420	415	410	405	400	395	390	385	380	375	370	365	360	355	350
Feet																
Belt #		84	83	82	81	80	79	78	77	76	75	74	73	72	71	70
Height - 63 ft	69	0.516								0.512						
	60	0.388								0.492						
	50	0.498	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.504	0.500	0.500	0.500	0.500	0.500	0.500
	45	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.505	0.500	0.500	0.500	0.500	0.505	0.505
	40	0.240	0.345	0.380	0.375	0.265	0.500	0.500	0.500	0.502	0.500	0.500	0.500	0.500	0.500	0.500
	35	0.495	0.380	0.405	0.420	0.385	0.220	0.365	0.245	0.568	0.485	0.495	0.500	0.500	0.505	0.505
	30	Box	Box	Box	Box	Box	0.220	0.315	0.300	0.328	0.300	0.315	0.295	0.315	0.500	0.500
	25	Box	Box	Box	Box	Box	0.320	0.275	0.335	0.352	0.340	0.290	0.285	0.280	0.235	0.230
20	Box	Box	Box	Box	Box	0.160	0.355	0.360	0.397	0.395	0.325	0.320	0.160	0.135	0.385	
15	0.280	0.235	0.280	0.225	0.195	0.200	0.370	0.340	0.410	0.315	0.310	0.310	0.330	0.305	0.155	
10	0.310	0.230	0.300	0.300	0.220	0.130	0.375	0.310	0.305	0.220	0.355	0.365	0.380	0.230	0.115	
Draft - 6 ft	5	0.284	0.324	0.330	0.364	0.411	0.304	0.390	0.276	0.348	0.260	0.350	0.350	0.377	0.376	0.364

Appendix 4: Wing Wall Exterior - West

< North

		345	340	335	330	325	320	315	310	305	300	295	290	285	280	275	
		Belt #	69	68	67	66	65	64	63	62	61	60	59	58	57	56	55
Height - 63 ft	69		0.512								0.520						
	60		0.558									0.444					
	50	0.500	0.506	0.500	0.500	0.500	0.500	0.305	0.310	0.305	0.350	0.500	0.495	0.495	0.240	0.335	
	45	0.505	0.500	0.505	0.505	0.505	0.505	0.260	0.455	0.315	0.275	0.500	0.495	0.495	0.400	0.350	
	40	0.500	0.512	0.500	0.500	0.500	0.500	0.510	0.515	0.515	0.510	0.515	0.495	0.495	0.430	0.335	
	35	0.505	0.500	0.505	0.505	0.505	0.505	0.520	0.515	0.510	0.515	0.510	0.495	0.495	0.460	0.305	
	30	0.500	0.500	0.500	0.500	0.500	0.500	0.380	0.285	0.300	0.295	0.280	0.285	0.300	0.395	0.345	
	25	0.190	0.287	0.205	0.290	0.345	0.365	0.440	0.435	0.340	0.362	0.260	0.435	0.340	0.230	0.245	
20	0.275	0.382	0.405	0.380	0.355	0.365	0.390	0.285	0.200	0.402	0.170	0.395	0.350	0.390	0.400		
15	0.386	0.310	0.335	0.320	0.340	0.340	0.350	0.145	0.325	0.397	0.345	0.235	0.400	0.220	0.345		
10	0.210	0.325	0.345	0.170	0.220	0.330	0.245	0.320	0.235	0.205	0.240	0.380	0.395	0.315	0.255		
Draft - 6 ft	5	0.377	0.270	0.426	0.286	0.364	0.308	0.358	0.252	0.280	0.280	0.320	0.290	0.262	0.266	0.202	

Appendix 4: Wing Wall Exterior - West

< North

		270	265	260	255	250	245	240	235	230	225	220	215	210	205	200	
Feet		54	53	52	51	50	49	48	47	46	45	44	43	42	41	40	
Belt #		54	53	52	51	50	49	48	47	46	45	44	43	42	41	40	
Height - 63 ft	69			0.522								0.506					
	60			0.388								0.508					
	50	0.270	0.330	0.352	0.345	0.420	0.255	0.505	0.505	0.505	0.505	0.516	0.505	0.505	0.505	0.500	
	45	0.140	0.135	0.340	0.295	0.280	0.315	0.510	0.510	0.510	0.510	0.510	0.510	0.510	0.510	0.510	0.505
	40	0.230	0.325	0.300	0.250	0.310	0.260	0.515	0.515	0.515	0.515	0.510	0.515	0.515	0.515	0.515	0.360
	35	0.235	0.220	0.442	0.405	0.400	0.170	0.510	0.510	0.510	0.510	0.510	0.510	0.510	0.510	0.510	0.230
	30	0.325	0.160	0.344	0.320	0.340	0.325	0.515	0.515	0.515	0.515	0.510	0.515	0.515	0.515	0.515	0.310
	25	0.260	0.260	0.306	0.375	0.380	0.475	0.870	0.480	0.310	0.260	0.230	0.325	0.340	0.265	0.360	
20	0.390	0.395	0.410	0.390	0.390	0.380	0.390	0.395	0.370	0.375	0.385	0.390	0.395	0.385	0.390		
15	0.195	0.260	0.205	0.365	0.345	0.355	0.270	0.390	0.230	0.410	0.435	0.425	0.435	0.380	0.395		
10	0.340	0.300	0.230	0.225	0.245	0.375	0.305	0.300	0.305	0.315	0.365	0.345	0.290	0.375	0.345		
Draft - 6 ft	5	0.210	0.344	0.238	0.202	0.290	0.286	0.176	0.122	0.188	0.286	0.260	0.268	0.292	0.362	0.368	

Appendix 4: Wing Wall Exterior - West

< North

		195	190	185	180	175	170	165	160	155	150	145	140	135	130	125
		39	38	37	36	35	34	33	32	31	30	29	28	27	26	25
Height - 63 ft	69				0.480								0.544			
	60				0.508								0.345			
	50	0.505	0.500	0.505	0.506	0.505	0.500	0.505	0.355	0.285	0.205	0.305	0.235	0.390	0.315	0.340
	45	0.500	0.505	0.500	0.500	0.500	0.505	0.500	0.350	0.310	0.265	0.235	0.355	0.185	0.300	0.295
	40	0.230	0.400	0.420	0.372	0.310	0.390	0.330	0.205	0.360	0.320	0.390	0.295	0.260	0.300	0.345
	35	0.300	0.215	0.315	0.392	0.305	0.320	0.320	0.335	0.325	0.240	0.395	0.309	0.320	0.310	0.285
	30	0.380	0.355	0.340	0.400	0.390	0.285	0.160	0.245	0.285	0.120	0.295	0.330	0.235	0.315	0.375
	25	0.400	0.450	0.385	0.402	0.285	0.200	0.250	0.365	0.315	0.440	0.345	0.340	0.375	0.300	0.290
20	0.380	0.390	0.395	0.360	0.370	0.380	0.385	0.365	0.365	0.370	0.385	0.380	0.365	0.370	0.395	
15	0.246	0.355	0.360	0.310	0.410	0.390	0.340	0.385	0.395	0.365	0.370	0.429	0.345	0.350	0.355	
10	0.325	0.343	0.390	0.340	0.155	0.335	0.325	0.310	0.315	0.325	0.330	0.300	0.300	0.315	0.385	
Draft - 6 ft	5	0.218	0.232	0.340	0.130	0.335	0.330	0.330	0.295	0.350	0.170	0.120	0.350	0.210	0.270	0.170

Appendix 4: Wing Wall Exterior - West

< North

		120	115	110	105	100	95	90	85	80	75	70	65	60	55	50
Feet		24	23	22	21	20	19	18	17	16	15	14	13	12	11	10
Belt #																
Height - 63 ft	69					0.510								0.482		
	60					0.492								0.346		
	50	0.370	0.384	0.360	0.405	0.260	0.370	0.384	0.360	0.405	0.435	0.385	0.460	0.406	0.430	0.405
	45	0.350	0.505	0.505	0.495	0.505	0.495	0.495	0.505	0.495	0.435	0.415	0.405	0.355	0.435	0.375
	40	0.345	0.505	0.505	0.505	0.505	0.505	0.505	0.505	0.505	0.495	0.495	0.505	0.356	0.373	0.365
	35	0.310	0.495	0.495	0.500	0.495	0.500	0.500	0.495	0.500	0.505	0.505	0.505	0.456	0.365	0.430
	30	0.300	Box	Box	Box	Box	Box	Box	Box	Box	0.500	0.500	0.495	0.403	0.305	0.395
	25	0.340	Box	Box	Box	Box	Box	Box	Box	Box	0.295	0.370	0.210	0.240	0.380	0.385
20	0.350	Box	Box	Box	Box	Box	Box	Box	Box	0.305	0.365	0.290	0.360	0.405	0.380	
15	0.345	0.360	0.280	0.425	0.456	0.415	0.410	0.425	0.425	0.315	0.360	0.345	0.300	0.260	0.395	
10	0.355	0.355	0.270	0.245	0.310	0.300	0.220	0.235	0.235	0.300	0.225	0.305	0.350	0.220	0.310	
Draft - 6 ft	5	0.125	0.115	0.195	0.170	0.230	0.370	0.352	0.304	0.248	0.270	0.350	0.246	0.220	0.216	0.220

Appendix 4: Wing Wall Exterior - West

< North		West Wing Wall Exterior										South >		
		Feet	45	40	35	30	25	20	15	10	5			
		Belt #	9	8	7	6	5	4	3	2	1	Belt #		
Height - 63 ft	69							0.450				69	Height - 63 ft	
	60							0.440				60		
	50	0.390	0.340	0.380	0.440	0.435	0.430	0.405	0.385	0.460	50			
	45	0.335	0.445	0.530	0.445	0.435	0.435	0.375	0.415	0.405	45			
	40	0.390	0.340	0.500	0.440	0.435	0.440	0.380	0.400	0.380	40			
	35	0.340	0.325	0.340	0.380	0.425	0.445	0.345	0.385	0.345	35			
	30	0.315	0.380	0.380	0.400	0.420	0.390	0.405	0.415	0.445	30			
	25	0.360	0.385	0.335	0.343	0.385	0.300	0.410	0.455	0.460	25			
20	0.375	0.430	0.265	0.395	0.380	0.385	0.350	0.390	0.305	20				
15	0.335	0.345	0.325	0.340	0.345	0.365	0.395	0.310	0.390	15				
10	0.295	0.335	0.225	0.340	0.360	0.390	0.395	0.305	0.305	10				
Draft - 6 ft	5	0.204	0.316	0.285	0.220	0.224	0.282	0.268	0.290	0.334	5	Draft - 6 ft		

Appendix 4 Comparison: Wing Wall Exterior - West

		West Wing Wall Exterior													
		795				790				785					
Feet	Belt #	Built	159	Diff	%	Built	158	Diff	%	Built	157	Diff	%		
Above Waterline	69														
	60														
	50	0.438	0.390	-0.048	-11%	0.438	0.505	0.067	15%	0.438	0.500	0.062	14%		
	45	0.438	0.325	-0.113	-26%	0.438	0.500	0.062	14%	0.438	0.500	0.062	14%		
	40	0.438	0.375	-0.063	-14%	0.438	0.500	0.062	14%	0.438	0.515	0.077	18%		
	35	0.438	0.365	-0.073	-17%	0.438	0.340	-0.098	-22%	0.438	0.365	-0.073	-17%		
	30	0.438	0.315	-0.123	-28%	0.438	0.355	-0.083	-19%	0.438	0.355	-0.083	-19%		
	25	0.438	0.320	-0.118	-27%	0.438	0.395	-0.043	-10%	0.438	0.370	-0.068	-16%		
	20	0.438	0.385	-0.053	-12%	0.438	0.365	-0.073	-17%	0.438	0.365	-0.073	-17%		
	15	0.438	0.300	-0.138	-32%	0.438	0.170	-0.268	-61%	0.438	0.205	-0.233	-53%		
10	0.438	0.395	-0.043	-10%	0.438	0.210	-0.228	-52%	0.438	0.200	-0.238	-54%			
	5	0.438	0.256	-0.182	-42%	0.438	0.316	-0.122	-28%	0.438	0.298	-0.140	-32%		

Appendix 4 Comparison: Wing Wall Exterior - West

< North

Feet		780				775					770			
Belt #		Built	156	Diff	%	Built	155	Diff	%	Built	154	Diff	%	
Above Waterline	69	0.500	0.524	0.024	5%									
	60	0.500	0.496	-0.004	-1%									
	50	0.438	0.510	0.072	16%	0.438	0.500	0.062	14%	0.438	0.500	0.062	14%	
	45	0.438	0.495	0.057	13%	0.438	0.505	0.067	15%	0.438	0.495	0.057	13%	
	40	0.438	0.510	0.072	16%	0.438	0.515	0.077	18%	0.438	0.515	0.077	18%	
	35	0.438	0.345	-0.093	-21%	0.438	0.200	-0.238	-54%	0.438	0.315	-0.123	-28%	
	30	0.438	0.222	-0.216	-49%	0.438	0.470	0.032	7%	0.438	0.390	-0.048	-11%	
	25	0.438	0.260	-0.178	-41%	0.438	0.340	-0.098	-22%	0.438	0.200	-0.238	-54%	
	20	0.438	0.297	-0.141	-32%	0.438	0.360	-0.078	-18%	0.438	0.230	-0.208	-47%	
	15	0.438	0.318	-0.120	-27%	0.438	0.205	-0.233	-53%	0.438	0.305	-0.133	-30%	
10	0.438	0.330	-0.108	-25%	0.438	0.210	-0.228	-52%	0.438	0.385	-0.053	-12%		
	5	0.438	0.264	-0.174	-40%	0.438	0.232	-0.206	-47%	0.438	0.376	-0.062	-14%	

Appendix 4 Comparison: Wing Wall Exterior - West

< North

Feet		765				760				755			
Belt #	Built	153	Diff	%	Built	152	Diff	%	Built	151	Diff	%	
Above Waterline	69												
	60												
	50	0.438	0.500	0.062	14%	0.438	0.520	0.082	19%	0.438	0.200	-0.238	-54%
	45	0.438	0.500	0.062	14%	0.438	0.520	0.082	19%	0.438	0.520	0.082	19%
	40	0.438	0.515	0.077	18%	0.438	0.525	0.087	20%	0.438	0.530	0.092	21%
	35	0.438	0.220	-0.218	-50%	0.438	0.390	-0.048	-11%	0.438	0.300	-0.138	-32%
	30	0.438	0.225	-0.213	-49%	0.438	0.270	-0.168	-38%	0.438	0.275	-0.163	-37%
	25	0.438	0.265	-0.173	-39%	0.438	0.315	-0.123	-28%	0.438	0.280	-0.158	-36%
	20	0.438	0.280	-0.158	-36%	0.438	0.295	-0.143	-33%	0.438	0.410	-0.028	-6%
	15	0.438	0.230	-0.208	-47%	0.438	0.235	-0.203	-46%	0.438	0.380	-0.058	-13%
10	0.438	0.255	-0.183	-42%	0.438	0.395	-0.043	-10%	0.438	0.270	-0.168	-38%	
5	0.438	0.301	-0.137	-31%	0.438	0.238	-0.200	-46%	0.438	0.340	-0.098	-22%	

Appendix 4 Comparison: Wing Wall Exterior - West

< North

Feet		750				745					740			
Belt #		Built	150	Diff	%	Built	149	Diff	%	Built	148	Diff	%	
Above Waterline	69									0.500	0.514	0.014	3%	
	60									0.500	0.494	-0.006	-1%	
	50	0.438	0.420	-0.018	-4%	0.438	0.225	-0.213	-49%	0.438	0.506	0.068	16%	
	45	0.438	0.530	0.092	21%	0.438	0.525	0.087	20%	0.438	0.500	0.062	14%	
	40	0.438	0.525	0.087	20%	0.438	0.530	0.092	21%	0.438	0.674	0.236	54%	
	35	0.438	0.275	-0.163	-37%	0.438	0.260	-0.178	-41%	0.438	0.390	-0.048	-11%	
	30	0.438	0.295	-0.143	-33%	0.438	0.250	-0.188	-43%	0.438	0.340	-0.098	-22%	
	25	0.438	0.270	-0.168	-38%	0.438	0.275	-0.163	-37%	0.438	0.124	-0.314	-72%	
	20	0.438	0.350	-0.088	-20%	0.438	0.295	-0.143	-33%	0.438	0.330	-0.108	-25%	
	15	0.438	0.390	-0.048	-11%	0.438	0.315	-0.123	-28%	0.438	0.365	-0.073	-17%	
10	0.438	0.290	-0.148	-34%	0.438	0.305	-0.133	-30%	0.438	0.260	-0.178	-41%		
	5	0.438	0.232	-0.206	-47%	0.438	0.361	-0.077	-18%	0.438	0.286	-0.152	-35%	

Appendix 4 Comparison: Wing Wall Exterior - West

< North

Feet		735				730					725			
Belt #		Built	147	Diff	%	Built	146	Diff	%	Built	145	Diff	%	
Above Waterline	69													
	60													
	50	0.438	0.380	-0.058	-13%	0.438	0.180	-0.258	-59%	0.438	0.280	-0.158	-36%	
	45	0.438	0.525	0.087	20%	0.438	0.530	0.092	21%	0.438	0.520	0.082	19%	
	40	0.438	0.530	0.092	21%	0.438	0.525	0.087	20%	0.438	0.530	0.092	21%	
	35	0.438	0.395	-0.043	-10%	0.438	0.360	-0.078	-18%	0.438	0.230	-0.208	-47%	
	30	0.438	0.355	-0.083	-19%	0.438	0.300	-0.138	-32%	0.438	0.295	-0.143	-33%	
	25	0.438	0.310	-0.128	-29%	0.438	0.225	-0.213	-49%	0.438	0.305	-0.133	-30%	
	20	0.438	0.390	-0.048	-11%	0.438	0.420	-0.018	-4%	0.438	0.405	-0.033	-8%	
	15	0.438	0.225	-0.213	-49%	0.438	0.245	-0.193	-44%	0.438	0.275	-0.163	-37%	
10	0.438	0.305	-0.133	-30%	0.438	0.240	-0.198	-45%	0.438	0.380	-0.058	-13%		
	5	0.438	0.260	-0.178	-41%	0.438	0.350	-0.088	-20%	0.438	0.332	-0.106	-24%	

Appendix 4 Comparison: Wing Wall Exterior - West

< North

Feet		720				715					710			
Belt #		Built	144	Diff	%	Built	143	Diff	%	Built	142	Diff	%	
Above Waterline	69													
	60													
	50	0.438	0.500	0.062	14%	0.438	0.500	0.062	14%	0.438	0.500	0.062	14%	
	45	0.438	0.335	-0.103	-24%	0.438	0.270	-0.168	-38%	0.438	0.265	-0.173	-39%	
	40	0.438	0.340	-0.098	-22%	0.438	0.280	-0.158	-36%	0.438	0.285	-0.153	-35%	
	35	0.438	0.365	-0.073	-17%	0.438	0.375	-0.063	-14%	0.438	0.340	-0.098	-22%	
	30		Box				Box				Box			
	25		Box				Box				Box			
	20		Box				Box				Box			
	15	0.438	0.230	-0.208	-47%	0.438	0.375	-0.063	-14%	0.438	0.300	-0.138	-32%	
10	0.438	0.305	-0.133	-30%	0.438	0.320	-0.118	-27%	0.438	0.315	-0.123	-28%		
	5	0.438	0.328	-0.110	-25%	0.438	0.276	-0.162	-37%	0.438	0.288	-0.150	-34%	

Appendix 4 Comparison: Wing Wall Exterior - West

< North

Feet		705				700					695			
Belt #		Built	141	Diff	%	Built	140	Diff	%	Built	139	Diff	%	
Above Waterline	69					0.500	0.506	0.006	1%					
	60					0.500	0.490	-0.010	-2%					
	50	0.438	0.495	0.057	13%	0.438	0.495	0.057	13%	0.438	0.500	0.062	14%	
	45	0.438	0.315	-0.123	-28%	0.438	0.335	-0.103	-24%	0.438	0.370	-0.068	-16%	
	40	0.438	0.345	-0.093	-21%	0.438	0.310	-0.128	-29%	0.438	0.340	-0.098	-22%	
	35	0.438	0.365	-0.073	-17%	0.438	0.350	-0.088	-20%	0.438	0.335	-0.103	-24%	
	30		Box				Box				Box			
	25		Box				Box				Box			
	20		Box				Box				Box			
	15	0.438	0.240	-0.198	-45%	0.438	0.260	-0.178	-41%	0.438	0.245	-0.193	-44%	
10	0.438	0.220	-0.218	-50%	0.438	0.260	-0.178	-41%	0.438	0.280	-0.158	-36%		
	5	0.438	0.244	-0.194	-44%	0.438	0.322	-0.116	-26%	0.438	0.366	-0.072	-16%	

Appendix 4 Comparison: Wing Wall Exterior - West

< North

Feet		690				685					680			
Belt #		Built	138	Diff	%	Built	137	Diff	%	Built	136	Diff	%	
Above Waterline	69													
	60													
	50	0.438	0.495	0.057	13%	0.438	0.500	0.062	14%	0.438	0.500	0.062	14%	
	45	0.438	0.340	-0.098	-22%	0.438	0.305	-0.133	-30%	0.438	0.300	-0.138	-32%	
	40	0.438	0.370	-0.068	-16%	0.438	0.350	-0.088	-20%	0.438	0.195	-0.243	-55%	
	35	0.438	0.365	-0.073	-17%	0.438	0.355	-0.083	-19%	0.438	0.220	-0.218	-50%	
	30		Box				Box			0.438	0.200	-0.238	-54%	
	25		Box				Box			0.438	0.210	-0.228	-52%	
	20		Box				Box			0.438	0.500	0.062	14%	
	15	0.438	0.220	-0.218	-50%	0.438	0.220	-0.218	-50%	0.438	0.230	-0.208	-47%	
10	0.438	0.225	-0.213	-49%	0.438	0.230	-0.208	-47%	0.438	0.370	-0.068	-16%		
	5	0.438	0.364	-0.074	-17%	0.438	0.346	-0.092	-21%	0.438	0.358	-0.080	-18%	

Appendix 4 Comparison: Wing Wall Exterior - West

< North

Feet		675				670				665			
Belt #		Built	135	Diff	%	Built	134	Diff	%	Built	133	Diff	%
Above Waterline	69												
	60												
	50	0.438	0.495	0.057	13%	0.438	0.500	0.062	14%	0.438	0.495	0.057	13%
	45	0.438	0.240	-0.198	-45%	0.438	0.255	-0.183	-42%	0.438	0.235	-0.203	-46%
	40	0.438	0.270	-0.168	-38%	0.438	0.235	-0.203	-46%	0.438	0.265	-0.173	-39%
	35	0.438	0.395	-0.043	-10%	0.438	0.340	-0.098	-22%	0.438	0.305	-0.133	-30%
	30	0.438	0.275	-0.163	-37%	0.438	0.345	-0.093	-21%	0.438	0.210	-0.228	-52%
	25	0.438	0.220	-0.218	-50%	0.438	0.260	-0.178	-41%	0.438	0.220	-0.218	-50%
	20	0.438	0.270	-0.168	-38%	0.438	0.330	-0.108	-25%	0.438	0.450	0.012	3%
	15	0.438	0.245	-0.193	-44%	0.438	0.310	-0.128	-29%	0.438	0.375	-0.063	-14%
10	0.438	0.525	0.087	20%	0.438	0.305	-0.133	-30%	0.438	0.315	-0.123	-28%	
5	0.438	0.336	-0.102	-23%	0.438	0.350	-0.088	-20%	0.438	0.270	-0.168	-38%	

Appendix 4 Comparison: Wing Wall Exterior - West

< North

Feet		660				655				650			
Belt #	Built	132	Diff	%	Built	131	Diff	%	Built	130	Diff	%	
Above Waterline	69	0.500	0.510	0.010	2%								
	60	0.500	0.494	-0.006	-1%								
	50	0.438	0.495	0.057	13%	0.438	0.490	0.052	12%	0.438	0.490	0.052	12%
	45	0.438	0.290	-0.148	-34%	0.438	0.355	-0.083	-19%	0.438	0.340	-0.098	-22%
	40	0.438	0.345	-0.093	-21%	0.438	0.285	-0.153	-35%	0.438	0.250	-0.188	-43%
	35	0.438	0.380	-0.058	-13%	0.438	0.325	-0.113	-26%	0.438	0.295	-0.143	-33%
	30	0.438	0.330	-0.108	-25%	0.438	0.334	-0.104	-24%	0.438	0.245	-0.193	-44%
	25	0.438	0.446	0.008	2%	0.438	0.340	-0.098	-22%	0.438	0.265	-0.173	-39%
	20	0.438	0.291	-0.147	-34%	0.438	0.280	-0.158	-36%	0.438	0.250	-0.188	-43%
	15	0.438	0.310	-0.128	-29%	0.438	0.195	-0.243	-55%	0.438	0.230	-0.208	-47%
10	0.438	0.320	-0.118	-27%	0.438	0.220	-0.218	-50%	0.438	0.235	-0.203	-46%	
	5	0.438	0.184	-0.254	-58%	0.438	0.286	-0.152	-35%	0.438	0.454	0.016	4%

Appendix 4 Comparison: Wing Wall Exterior - West

< North

Feet		645				640				635			
Belt #		Built	129	Diff	%	Built	128	Diff	%	Built	127	Diff	%
Above Waterline	69												
	60												
	50	0.438	0.490	0.052	12%	0.438	0.495	0.057	13%	0.438	0.500	0.062	14%
	45	0.438	0.250	-0.188	-43%	0.438	0.260	-0.178	-41%	0.438	0.440	0.002	0%
	40	0.438	0.200	-0.238	-54%	0.438	0.245	-0.193	-44%	0.438	0.435	-0.003	-1%
	35	0.438	0.380	-0.058	-13%	0.438	0.375	-0.063	-14%	0.438	0.375	-0.063	-14%
	30	0.438	0.340	-0.098	-22%	0.438	0.390	-0.048	-11%	0.438	0.380	-0.058	-13%
	25	0.438	0.224	-0.214	-49%	0.438	0.215	-0.223	-51%	0.438	0.335	-0.103	-24%
	20	0.438	0.275	-0.163	-37%	0.438	0.335	-0.103	-24%	0.438	0.300	-0.138	-32%
	15	0.438	0.205	-0.233	-53%	0.438	0.300	-0.138	-32%	0.438	0.280	-0.158	-36%
10	0.438	0.375	-0.063	-14%	0.438	0.225	-0.213	-49%	0.438	0.315	-0.123	-28%	
5	0.438	0.406	-0.032	-7%	0.438	0.302	-0.136	-31%	0.438	0.406	-0.032	-7%	

Appendix 4 Comparison: Wing Wall Exterior - West

< North

Feet		630				625					620			
Belt #		Built	126	Diff	%	Built	125	Diff	%	Built	124	Diff	%	
Above Waterline	69									0.500	0.510	0.010	2%	
	60									0.500	0.498	-0.002	0%	
	50	0.438	0.225	-0.213	-49%	0.438	0.200	-0.238	-54%	0.438	0.312	-0.126	-29%	
	45	0.438	0.240	-0.198	-45%	0.438	0.455	0.017	4%	0.438	0.280	-0.158	-36%	
	40	0.438	0.255	-0.183	-42%	0.438	0.450	0.012	3%	0.438	0.300	-0.138	-32%	
	35	0.438	0.295	-0.143	-33%	0.438	0.355	-0.083	-19%	0.438	0.250	-0.188	-43%	
	30	0.438	0.275	-0.163	-37%	0.438	0.385	-0.053	-12%	0.438	0.258	-0.180	-41%	
	25	0.438	0.200	-0.238	-54%	0.438	0.285	-0.153	-35%	0.438	0.238	-0.200	-46%	
	20	0.438	0.255	-0.183	-42%	0.438	0.265	-0.173	-39%	0.438	0.287	-0.151	-34%	
	15	0.438	0.260	-0.178	-41%	0.438	0.300	-0.138	-32%	0.438	0.270	-0.168	-38%	
10	0.438	0.220	-0.218	-50%	0.438	0.245	-0.193	-44%	0.438	0.310	-0.128	-29%		
	5	0.438	0.326	-0.112	-26%	0.438	0.412	-0.026	-6%	0.438	0.358	-0.080	-18%	

Appendix 4 Comparison: Wing Wall Exterior - West

< North

Feet		615				610					605			
Belt #		Built	123	Diff	%	Built	122	Diff	%	Built	121	Diff	%	
Above Waterline	69													
	60													
	50	0.438	0.515	0.077	18%	0.438	0.520	0.082	19%	0.438	0.515	0.077	18%	
	45	0.438	0.520	0.082	19%	0.438	0.515	0.077	18%	0.438	0.515	0.077	18%	
	40	0.438	0.520	0.082	19%	0.438	0.500	0.062	14%	0.438	0.520	0.082	19%	
	35	0.438	0.300	-0.138	-32%	0.438	0.365	-0.073	-17%	0.438	0.395	-0.043	-10%	
	30	0.438	0.390	-0.048	-11%	0.438	0.375	-0.063	-14%	0.438	0.380	-0.058	-13%	
	25	0.438	0.385	-0.053	-12%	0.438	0.285	-0.153	-35%	0.438	0.350	-0.088	-20%	
	20	0.438	0.210	-0.228	-52%	0.438	0.300	-0.138	-32%	0.438	0.270	-0.168	-38%	
	15	0.438	0.310	-0.128	-29%	0.438	0.235	-0.203	-46%	0.438	0.305	-0.133	-30%	
10	0.438	0.305	-0.133	-30%	0.438	0.220	-0.218	-50%	0.438	0.190	-0.248	-57%		
	5	0.438	0.299	-0.139	-32%	0.438	0.160	-0.278	-63%	0.438	0.350	-0.088	-20%	

Appendix 4 Comparison: Wing Wall Exterior - West

< North

Feet		600				595				590			
Belt #		Built	120	Diff	%	Built	119	Diff	%	Built	118	Diff	%
Above Waterline	69												
	60												
	50	0.438	0.495	0.057	13%	0.438	0.495	0.057	13%	0.438	0.495	0.057	13%
	45	0.438	0.495	0.057	13%	0.438	0.495	0.057	13%	0.438	0.495	0.057	13%
	40	0.438	0.495	0.057	13%	0.438	0.495	0.057	13%	0.438	0.495	0.057	13%
	35	0.438	0.495	0.057	13%	0.438	0.495	0.057	13%	0.438	0.495	0.057	13%
	30	0.438	0.495	0.057	13%	0.438	0.495	0.057	13%	0.438	0.495	0.057	13%
	25	0.438	0.260	-0.178	-41%	0.438	0.305	-0.133	-30%	0.438	0.280	-0.158	-36%
	20	0.438	0.325	-0.113	-26%	0.438	0.285	-0.153	-35%	0.438	0.355	-0.083	-19%
	15	0.438	0.225	-0.213	-49%	0.438	0.250	-0.188	-43%	0.438	0.310	-0.128	-29%
10	0.438	0.270	-0.168	-38%	0.438	0.490	0.052	12%	0.438	0.295	-0.143	-33%	
5	0.438	2.820	2.382	544%	0.438	0.350	-0.088	-20%	0.438	0.234	-0.204	-47%	

Appendix 4 Comparison: Wing Wall Exterior - West

< North

Feet		585				580				575			
Belt #		Built	117	Diff	%	Built	116	Diff	%	Built	115	Diff	%
Above Waterline	69					0.500	0.510	0.010	2%				
	60					0.500	0.510	0.010	2%				
	50	0.438	0.495	0.057	13%	0.438	0.494	0.056	13%	0.438	0.495	0.057	13%
	45	0.438	0.495	0.057	13%	0.438	0.495	0.057	13%	0.438	0.385	-0.053	-12%
	40	0.438	0.345	-0.093	-21%	0.438	0.412	-0.026	-6%	0.438	0.345	-0.093	-21%
	35	0.438	0.365	-0.073	-17%	0.438	0.372	-0.066	-15%	0.438	0.310	-0.128	-29%
	30	0.438	0.380	-0.058	-13%	0.438	0.316	-0.122	-28%	0.438	0.300	-0.138	-32%
	25	0.438	0.265	-0.173	-39%	0.438	0.320	-0.118	-27%	0.438	0.250	-0.188	-43%
	20	0.438	0.360	-0.078	-18%	0.438	0.312	-0.126	-29%	0.438	0.340	-0.098	-22%
	15	0.438	0.315	-0.123	-28%	0.438	0.318	-0.120	-27%	0.438	0.245	-0.193	-44%
10	0.438	0.300	-0.138	-32%	0.438	0.250	-0.188	-43%	0.438	0.310	-0.128	-29%	
5	0.438	0.322	-0.116	-26%	0.438	0.306	-0.132	-30%	0.438	0.264	-0.174	-40%	

Appendix 4 Comparison: Wing Wall Exterior - West

< North

Feet		570				565					560			
Belt #		Built	114	Diff	%	Built	113	Diff	%	Built	112	Diff	%	
Above Waterline	69													
	60													
	50	0.438	0.310	-0.128	-29%	0.438	0.330	-0.108	-25%	0.438	0.280	-0.158	-36%	
	45	0.438	0.315	-0.123	-28%	0.438	0.300	-0.138	-32%	0.438	0.295	-0.143	-33%	
	40	0.438	0.375	-0.063	-14%	0.438	0.295	-0.143	-33%	0.438	0.315	-0.123	-28%	
	35	0.438	0.200	-0.238	-54%	0.438	0.355	-0.083	-19%	0.438	0.360	-0.078	-18%	
	30	0.438	0.285	-0.153	-35%	0.438	0.300	-0.138	-32%	0.438	0.375	-0.063	-14%	
	25	0.438	0.330	-0.108	-25%	0.438	0.340	-0.098	-22%	0.438	0.375	-0.063	-14%	
	20	0.438	0.190	-0.248	-57%	0.438	0.395	-0.043	-10%	0.438	0.420	-0.018	-4%	
	15	0.438	0.240	-0.198	-45%	0.438	0.315	-0.123	-28%	0.438	0.290	-0.148	-34%	
10	0.438	0.215	-0.223	-51%	0.438	0.310	-0.128	-29%	0.438	0.310	-0.128	-29%		
	5	0.438	0.286	-0.152	-35%	0.438	0.310	-0.128	-29%	0.438	0.350	-0.088	-20%	

Appendix 4 Comparison: Wing Wall Exterior - West

< North

Feet		555				550				545			
Belt #		Built	111	Diff	%	Built	110	Diff	%	Built	109	Diff	%
Above Waterline	69												
	60												
	50	0.438	0.500	0.062	14%	0.438	0.500	0.062	14%	0.438	0.500	0.062	14%
	45	0.438	0.495	0.057	13%	0.438	0.500	0.062	14%	0.438	0.500	0.062	14%
	40	0.438	0.340	-0.098	-22%	0.438	0.290	-0.148	-34%	0.438	0.295	-0.143	-33%
	35	0.438	0.360	-0.078	-18%	0.438	0.275	-0.163	-37%	0.438	0.305	-0.133	-30%
	30	0.438	0.320	-0.118	-27%	0.438	0.300	-0.138	-32%	0.438	0.275	-0.163	-37%
	25	0.438	0.330	-0.108	-25%	0.438	0.400	-0.038	-9%	0.438	0.260	-0.178	-41%
	20	0.438	0.285	-0.153	-35%	0.438	0.310	-0.128	-29%	0.438	0.300	-0.138	-32%
	15	0.438	0.265	-0.173	-39%	0.438	0.265	-0.173	-39%	0.438	0.265	-0.173	-39%
10	0.438	0.395	-0.043	-10%	0.438	0.300	-0.138	-32%	0.438	0.400	-0.038	-9%	
5	0.438	0.318	-0.120	-27%	0.438	0.232	-0.206	-47%	0.438	0.350	-0.088	-20%	

Appendix 4 Comparison: Wing Wall Exterior - West

< North

Feet		540				535					530			
Belt #		Built	108	Diff	%	Built	107	Diff	%	Built	106	Diff	%	
Above Waterline	69	0.500	0.510	0.010	2%									
	60	0.500	0.268	-0.232	-46%									
	50	0.438	0.498	0.060	14%	0.438	0.495	0.057	13%	0.438	0.500	0.062	14%	
	45	0.438	0.495	0.057	13%	0.438	0.500	0.062	14%	0.438	0.500	0.062	14%	
	40	0.438	0.310	-0.128	-29%	0.438	0.305	-0.133	-30%	0.438	0.300	-0.138	-32%	
	35	0.438	0.322	-0.116	-26%	0.438	0.200	-0.238	-54%	0.438	0.280	-0.158	-36%	
	30	0.438	0.305	-0.133	-30%	0.438	0.285	-0.153	-35%	0.438	0.300	-0.138	-32%	
	25	0.438	0.300	-0.138	-32%	0.438	0.250	-0.188	-43%	0.438	0.275	-0.163	-37%	
	20	0.438	0.297	-0.141	-32%	0.438	0.265	-0.173	-39%	0.438	0.300	-0.138	-32%	
	15	0.438	0.254	-0.184	-42%	0.438	0.265	-0.173	-39%	0.438	0.260	-0.178	-41%	
10	0.438	0.405	-0.033	-8%	0.438	0.255	-0.183	-42%	0.438	0.400	-0.038	-9%		
	5	0.438	0.370	-0.068	-16%	0.438	0.305	-0.133	-30%	0.438	0.220	-0.218	-50%	

Appendix 4 Comparison: Wing Wall Exterior - West

< North

Feet		525				520					515			
Belt #		Built	105	Diff	%	Built	104	Diff	%	Built	103	Diff	%	
Above Waterline	69													
	60													
	50	0.438	0.500	0.062	14%	0.438	0.495	0.057	13%	0.438	0.495	0.057	13%	
	45	0.438	0.500	0.062	14%	0.438	0.495	0.057	13%	0.438	0.500	0.062	14%	
	40	0.438	0.300	-0.138	-32%	0.438	0.305	-0.133	-30%	0.438	0.295	-0.143	-33%	
	35	0.438	0.205	-0.233	-53%	0.438	0.335	-0.103	-24%	0.438	0.335	-0.103	-24%	
	30	0.438	0.290	-0.148	-34%	0.438	0.390	-0.048	-11%	0.438	0.345	-0.093	-21%	
	25	0.438	0.300	-0.138	-32%	0.438	0.360	-0.078	-18%	0.438	0.370	-0.068	-16%	
	20	0.438	0.380	-0.058	-13%	0.438	0.245	-0.193	-44%	0.438	0.295	-0.143	-33%	
	15	0.438	0.235	-0.203	-46%	0.438	0.260	-0.178	-41%	0.438	0.230	-0.208	-47%	
10	0.438	0.390	-0.048	-11%	0.438	0.385	-0.053	-12%	0.438	0.385	-0.053	-12%		
	5	0.438	0.202	-0.236	-54%	0.438	0.322	-0.116	-26%	0.438	0.203	-0.235	-54%	

Appendix 4 Comparison: Wing Wall Exterior - West

< North

Feet		510				505				500			
Belt #		Built	102	Diff	%	Built	101	Diff	%	Built	100	Diff	%
Above Waterline	69									0.500	0.498	-0.002	0%
	60									0.500	0.434	-0.066	-13%
	50	0.438	0.500	0.062	14%	0.438	0.500	0.062	14%	0.438	0.546	0.108	25%
	45	0.438	0.495	0.057	13%	0.438	0.500	0.062	14%	0.438	0.500	0.062	14%
	40	0.438	0.285	-0.153	-35%	0.438	0.350	-0.088	-20%	0.438	0.299	-0.139	-32%
	35	0.438	0.370	-0.068	-16%	0.438	0.360	-0.078	-18%	0.438	0.290	-0.148	-34%
	30	0.438	0.285	-0.153	-35%	0.438	0.350	-0.088	-20%	0.438	0.320	-0.118	-27%
	25	0.438	0.435	-0.003	-1%	0.438	0.325	-0.113	-26%	0.438	0.188	-0.250	-57%
	20	0.438	0.370	-0.068	-16%	0.438	0.360	-0.078	-18%	0.438	0.310	-0.128	-29%
	15	0.438	0.235	-0.203	-46%	0.438	0.200	-0.238	-54%	0.438	0.278	-0.160	-37%
10	0.438	0.230	-0.208	-47%	0.438	0.245	-0.193	-44%	0.438	0.300	-0.138	-32%	
5	0.438	0.270	-0.168	-38%	0.438	0.394	-0.044	-10%	0.438	0.214	-0.224	-51%	

Appendix 4 Comparison: Wing Wall Exterior - West

< North

Feet		495				490					485			
Belt #		Built	99	Diff	%	Built	98	Diff	%	Built	97	Diff	%	
Above Waterline	69													
	60													
	50	0.438	0.495	0.057	13%	0.438	0.215	-0.223	-51%	0.438	0.300	-0.138	-32%	
	45	0.438	0.485	0.047	11%	0.438	0.300	-0.138	-32%	0.438	0.350	-0.088	-20%	
	40	0.438	0.305	-0.133	-30%	0.438	0.325	-0.113	-26%	0.438	0.285	-0.153	-35%	
	35	0.438	0.390	-0.048	-11%	0.438	0.445	0.007	2%	0.438	0.445	0.007	2%	
	30	0.438	0.335	-0.103	-24%	0.438	0.395	-0.043	-10%	0.438	0.355	-0.083	-19%	
	25	0.438	0.275	-0.163	-37%	0.438	0.330	-0.108	-25%	0.438	0.220	-0.218	-50%	
	20	0.438	0.410	-0.028	-6%	0.438	0.435	-0.003	-1%	0.438	0.340	-0.098	-22%	
	15	0.438	0.340	-0.098	-22%	0.438	0.310	-0.128	-29%	0.438	0.375	-0.063	-14%	
10	0.438	0.340	-0.098	-22%	0.438	0.240	-0.198	-45%	0.438	0.235	-0.203	-46%		
	5	0.438	0.362	-0.076	-17%	0.438	0.374	-0.064	-15%	0.438	0.264	-0.174	-40%	

Appendix 4 Comparison: Wing Wall Exterior - West

< North

Feet		480				475					470			
Belt #		Built	96	Diff	%	Built	95	Diff	%	Built	94	Diff	%	
Above Waterline	69													
	60													
	50	0.438	0.500	0.062	14%	0.438	0.500	0.062	14%	0.438	0.500	0.062	14%	
	45	0.438	0.295	-0.143	-33%	0.438	0.315	-0.123	-28%	0.438	0.300	-0.138	-32%	
	40	0.438	0.380	-0.058	-13%	0.438	0.340	-0.098	-22%	0.438	0.250	-0.188	-43%	
	35	0.438	0.230	-0.208	-47%	0.438	0.315	-0.123	-28%	0.438	0.255	-0.183	-42%	
	30	0.438	0.395	-0.043	-10%	0.438	0.295	-0.143	-33%	0.438	0.335	-0.103	-24%	
	25	0.438	0.300	-0.138	-32%	0.438	0.450	0.012	3%	0.438	0.340	-0.098	-22%	
	20	0.438	0.330	-0.108	-25%	0.438	0.370	-0.068	-16%	0.438	0.405	-0.033	-8%	
	15	0.438	0.260	-0.178	-41%	0.438	0.370	-0.068	-16%	0.438	0.300	-0.138	-32%	
10	0.438	0.305	-0.133	-30%	0.438	0.220	-0.218	-50%	0.438	0.320	-0.118	-27%		
	5	0.438	0.224	-0.214	-49%	0.438	0.208	-0.230	-53%	0.438	0.350	-0.088	-20%	

Appendix 4 Comparison: Wing Wall Exterior - West

< North

Feet		465				460				455			
Belt #	Built	93	Diff	%	Built	92	Diff	%	Built	91	Diff	%	
Above Waterline	69				0.500	0.502	0.002	0%					
	60				0.500	0.492	-0.008	-2%					
	50	0.438	0.215	-0.223	-51%	0.438	0.500	0.062	14%	0.438	0.500	0.062	14%
	45	0.438	0.250	-0.188	-43%	0.438	0.300	-0.138	-32%	0.438	0.355	-0.083	-19%
	40	0.438	0.350	-0.088	-20%	0.438	0.366	-0.072	-16%	0.438	0.205	-0.233	-53%
	35	0.438	0.200	-0.238	-54%	0.438	0.430	-0.008	-2%	0.438	0.300	-0.138	-32%
	30	0.438	0.330	-0.108	-25%	0.438	0.350	-0.088	-20%	0.438	0.430	-0.008	-2%
	25	0.438	0.260	-0.178	-41%	0.438	0.328	-0.110	-25%	0.438	0.330	-0.108	-25%
	20	0.438	0.220	-0.218	-50%	0.438	0.281	-0.157	-36%	0.438	0.300	-0.138	-32%
	15	0.438	0.300	-0.138	-32%	0.438	0.305	-0.133	-30%	0.438	0.295	-0.143	-33%
10	0.438	0.385	-0.053	-12%	0.438	0.240	-0.198	-45%	0.438	0.265	-0.173	-39%	
5	0.438	0.340	-0.098	-22%	0.438	0.304	-0.134	-31%	0.438	0.282	-0.156	-36%	

Appendix 4 Comparison: Wing Wall Exterior - West

< North

Feet		450				445					440			
Belt #		Built	90	Diff	%	Built	89	Diff	%	Built	88	Diff	%	
Above Waterline	69													
	60													
	50	0.438	0.500	0.062	14%	0.438	0.320	-0.118	-27%	0.438	0.230	-0.208	-47%	
	45	0.438	0.360	-0.078	-18%	0.438	0.355	-0.083	-19%	0.438	0.380	-0.058	-13%	
	40	0.438	0.390	-0.048	-11%	0.438	0.330	-0.108	-25%	0.438	0.380	-0.058	-13%	
	35	0.438	0.150	-0.288	-66%	0.438	0.295	-0.143	-33%	0.438	0.210	-0.228	-52%	
	30	0.438	0.360	-0.078	-18%	0.438	0.340	-0.098	-22%	0.438	0.345	-0.093	-21%	
	25	0.438	0.120	-0.318	-73%	0.438	0.205	-0.233	-53%	0.438	0.260	-0.178	-41%	
	20	0.438	0.270	-0.168	-38%	0.438	0.335	-0.103	-24%	0.438	0.375	-0.063	-14%	
	15	0.438	0.130	-0.308	-70%	0.438	0.370	-0.068	-16%	0.438	0.375	-0.063	-14%	
10	0.438	0.305	-0.133	-30%	0.438	0.275	-0.163	-37%	0.438	0.240	-0.198	-45%		
	5	0.438	0.350	-0.088	-20%	0.438	0.390	-0.048	-11%	0.438	0.230	-0.208	-47%	

Appendix 4 Comparison: Wing Wall Exterior - West

< North

Feet		435				430				425			
Belt #		Built	87	Diff	%	Built	86	Diff	%	Built	85	Diff	%
Above Waterline	69												
	60												
	50	0.438	0.500	0.062	14%	0.438	0.500	0.062	14%	0.438	0.500	0.062	14%
	45	0.438	0.500	0.062	14%	0.438	0.500	0.062	14%	0.438	0.500	0.062	14%
	40	0.438	0.430	-0.008	-2%	0.438	0.305	-0.133	-30%	0.438	0.465	0.027	6%
	35	0.438	0.310	-0.128	-29%	0.438	0.395	-0.043	-10%	0.438	0.245	-0.193	-44%
	30		Box				Box				Box		
	25		Box				Box				Box		
	20		Box				Box				Box		
	15	0.438	0.295	-0.143	-33%	0.438	0.280	-0.158	-36%	0.438	0.300	-0.138	-32%
10	0.438	0.305	-0.133	-30%	0.438	0.355	-0.083	-19%	0.438	0.230	-0.208	-47%	
	5	0.438	0.216	-0.222	-51%	0.438	0.216	-0.222	-51%	0.438	0.428	-0.010	-2%

Appendix 4 Comparison: Wing Wall Exterior - West

< North

Feet		420				415					410			
Belt #		Built	84	Diff	%	Built	83	Diff	%	Built	82	Diff	%	
Above Waterline	69	0.500	0.516	0.016	3%									
	60	0.500	0.388	-0.112	-22%									
	50	0.438	0.498	0.060	14%	0.438	0.500	0.062	14%	0.438	0.500	0.062	14%	
	45	0.438	0.500	0.062	14%	0.438	0.500	0.062	14%	0.438	0.500	0.062	14%	
	40	0.438	0.240	-0.198	-45%	0.438	0.345	-0.093	-21%	0.438	0.380	-0.058	-13%	
	35	0.438	0.495	0.057	13%	0.438	0.380	-0.058	-13%	0.438	0.405	-0.033	-8%	
	30		Box				Box				Box			
	25		Box				Box				Box			
	20		Box				Box				Box			
	15	0.438	0.280	-0.158	-36%	0.438	0.235	-0.203	-46%	0.438	0.280	-0.158	-36%	
10	0.438	0.310	-0.128	-29%	0.438	0.230	-0.208	-47%	0.438	0.300	-0.138	-32%		
5	0.438	0.284	-0.154	-35%	0.438	0.324	-0.114	-26%	0.438	0.330	-0.108	-25%		

Appendix 4 Comparison: Wing Wall Exterior - West

< North

Feet		405				400					395			
Belt #		Built	81	Diff	%	Built	80	Diff	%	Built	79	Diff	%	
Above Waterline	69													
	60													
	50	0.438	0.500	0.062	14%	0.438	0.500	0.062	14%	0.438	0.500	0.062	14%	
	45	0.438	0.500	0.062	14%	0.438	0.500	0.062	14%	0.438	0.500	0.062	14%	
	40	0.438	0.375	-0.063	-14%	0.438	0.265	-0.173	-39%	0.438	0.500	0.062	14%	
	35	0.438	0.420	-0.018	-4%	0.438	0.385	-0.053	-12%	0.438	0.220	-0.218	-50%	
	30		Box				Box			0.438	0.220	-0.218	-50%	
	25		Box				Box			0.438	0.320	-0.118	-27%	
	20		Box				Box			0.438	0.160	-0.278	-63%	
	15	0.438	0.225	-0.213	-49%	0.438	0.195	-0.243	-55%	0.438	0.200	-0.238	-54%	
10	0.438	0.300	-0.138	-32%	0.438	0.220	-0.218	-50%	0.438	0.130	-0.308	-70%		
	5	0.438	0.364	-0.074	-17%	0.438	0.411	-0.027	-6%	0.438	0.304	-0.134	-31%	

Appendix 4 Comparison: Wing Wall Exterior - West

< North

Feet		390				385					380			
Belt #		Built	78	Diff	%	Built	77	Diff	%	Built	76	Diff	%	
Above Waterline	69									0.500	0.512	0.012	2%	
	60									0.500	0.492	-0.008	-2%	
	50	0.438	0.500	0.062	14%	0.438	0.500	0.062	14%	0.438	0.504	0.066	15%	
	45	0.438	0.500	0.062	14%	0.438	0.500	0.062	14%	0.438	0.505	0.067	15%	
	40	0.438	0.500	0.062	14%	0.438	0.500	0.062	14%	0.438	0.502	0.064	15%	
	35	0.438	0.365	-0.073	-17%	0.438	0.245	-0.193	-44%	0.438	0.568	0.130	30%	
	30	0.438	0.315	-0.123	-28%	0.438	0.300	-0.138	-32%	0.438	0.328	-0.110	-25%	
	25	0.438	0.275	-0.163	-37%	0.438	0.335	-0.103	-24%	0.438	0.352	-0.086	-20%	
	20	0.438	0.355	-0.083	-19%	0.438	0.360	-0.078	-18%	0.438	0.397	-0.041	-9%	
	15	0.438	0.370	-0.068	-16%	0.438	0.340	-0.098	-22%	0.438	0.410	-0.028	-6%	
10	0.438	0.375	-0.063	-14%	0.438	0.310	-0.128	-29%	0.438	0.305	-0.133	-30%		
	5	0.438	0.390	-0.048	-11%	0.438	0.276	-0.162	-37%	0.438	0.348	-0.090	-21%	

Appendix 4 Comparison: Wing Wall Exterior - West

< North

Feet		375				370					365			
Belt #		Built	75	Diff	%	Built	74	Diff	%	Built	73	Diff	%	
Above Waterline	69													
	60													
	50	0.438	0.500	0.062	14%	0.438	0.500	0.062	14%	0.438	0.500	0.062	14%	
	45	0.438	0.500	0.062	14%	0.438	0.500	0.062	14%	0.438	0.500	0.062	14%	
	40	0.438	0.500	0.062	14%	0.438	0.500	0.062	14%	0.438	0.500	0.062	14%	
	35	0.438	0.485	0.047	11%	0.438	0.495	0.057	13%	0.438	0.500	0.062	14%	
	30	0.438	0.300	-0.138	-32%	0.438	0.315	-0.123	-28%	0.438	0.295	-0.143	-33%	
	25	0.438	0.340	-0.098	-22%	0.438	0.290	-0.148	-34%	0.438	0.285	-0.153	-35%	
	20	0.438	0.395	-0.043	-10%	0.438	0.325	-0.113	-26%	0.438	0.320	-0.118	-27%	
	15	0.438	0.315	-0.123	-28%	0.438	0.310	-0.128	-29%	0.438	0.310	-0.128	-29%	
10	0.438	0.220	-0.218	-50%	0.438	0.355	-0.083	-19%	0.438	0.365	-0.073	-17%		
5	0.438	0.260	-0.178	-41%	0.438	0.350	-0.088	-20%	0.438	0.350	-0.088	-20%		

Appendix 4 Comparison: Wing Wall Exterior - West

< North

Feet		360				355					350			
Belt #		Built	72	Diff	%	Built	71	Diff	%	Built	70	Diff	%	
Above Waterline	69													
	60													
	50	0.438	0.500	0.062	14%	0.438	0.500	0.062	14%	0.438	0.500	0.062	14%	
	45	0.438	0.500	0.062	14%	0.438	0.505	0.067	15%	0.438	0.505	0.067	15%	
	40	0.438	0.500	0.062	14%	0.438	0.500	0.062	14%	0.438	0.500	0.062	14%	
	35	0.438	0.500	0.062	14%	0.438	0.505	0.067	15%	0.438	0.505	0.067	15%	
	30	0.438	0.315	-0.123	-28%	0.438	0.500	0.062	14%	0.438	0.500	0.062	14%	
	25	0.438	0.280	-0.158	-36%	0.438	0.235	-0.203	-46%	0.438	0.230	-0.208	-47%	
	20	0.438	0.160	-0.278	-63%	0.438	0.135	-0.303	-69%	0.438	0.385	-0.053	-12%	
	15	0.438	0.330	-0.108	-25%	0.438	0.305	-0.133	-30%	0.438	0.155	-0.283	-65%	
10	0.438	0.380	-0.058	-13%	0.438	0.230	-0.208	-47%	0.438	0.115	-0.323	-74%		
	5	0.438	0.377	-0.061	-14%	0.438	0.376	-0.062	-14%	0.438	0.364	-0.074	-17%	

Appendix 4 Comparison: Wing Wall Exterior - West

< North

Feet		345				340				335			
Belt #		Built	69	Diff	%	Built	68	Diff	%	Built	67	Diff	%
Above Waterline	69					0.500	0.512	0.012	2%				
	60					0.500	0.558	0.058	12%				
	50	0.438	0.500	0.062	14%	0.438	0.506	0.068	16%	0.438	0.500	0.062	14%
	45	0.438	0.505	0.067	15%	0.438	0.500	0.062	14%	0.438	0.505	0.067	15%
	40	0.438	0.500	0.062	14%	0.438	0.512	0.074	17%	0.438	0.500	0.062	14%
	35	0.438	0.505	0.067	15%	0.438	0.500	0.062	14%	0.438	0.505	0.067	15%
	30	0.438	0.500	0.062	14%	0.438	0.500	0.062	14%	0.438	0.500	0.062	14%
	25	0.438	0.190	-0.248	-57%	0.438	0.287	-0.151	-34%	0.438	0.205	-0.233	-53%
	20	0.438	0.275	-0.163	-37%	0.438	0.382	-0.056	-13%	0.438	0.405	-0.033	-8%
	15	0.438	0.386	-0.052	-12%	0.438	0.310	-0.128	-29%	0.438	0.335	-0.103	-24%
10	0.438	0.210	-0.228	-52%	0.438	0.325	-0.113	-26%	0.438	0.345	-0.093	-21%	
	5	0.438	0.377	-0.061	-14%	0.438	0.270	-0.168	-38%	0.438	0.426	-0.012	-3%

Appendix 4 Comparison: Wing Wall Exterior - West

< North

Feet		330				325				320			
Belt #		Built	66	Diff	%	Built	65	Diff	%	Built	64	Diff	%
Above Waterline	69												
	60												
	50	0.438	0.500	0.062	14%	0.438	0.500	0.062	14%	0.438	0.500	0.062	14%
	45	0.438	0.505	0.067	15%	0.438	0.505	0.067	15%	0.438	0.505	0.067	15%
	40	0.438	0.500	0.062	14%	0.438	0.500	0.062	14%	0.438	0.500	0.062	14%
	35	0.438	0.505	0.067	15%	0.438	0.505	0.067	15%	0.438	0.505	0.067	15%
	30	0.438	0.500	0.062	14%	0.438	0.500	0.062	14%	0.438	0.500	0.062	14%
	25	0.438	0.290	-0.148	-34%	0.438	0.345	-0.093	-21%	0.438	0.365	-0.073	-17%
	20	0.438	0.380	-0.058	-13%	0.438	0.355	-0.083	-19%	0.438	0.365	-0.073	-17%
	15	0.438	0.320	-0.118	-27%	0.438	0.340	-0.098	-22%	0.438	0.340	-0.098	-22%
10	0.438	0.170	-0.268	-61%	0.438	0.220	-0.218	-50%	0.438	0.330	-0.108	-25%	
5	0.438	0.286	-0.152	-35%	0.438	0.364	-0.074	-17%	0.438	0.308	-0.130	-30%	

Appendix 4 Comparison: Wing Wall Exterior - West

< North

Feet		315				310					305			
Belt #		Built	63	Diff	%	Built	62	Diff	%	Built	61	Diff	%	
Above Waterline	69													
	60													
	50	0.438	0.305	-0.133	-30%	0.438	0.310	-0.128	-29%	0.438	0.305	-0.133	-30%	
	45	0.438	0.260	-0.178	-41%	0.438	0.455	0.017	4%	0.438	0.315	-0.123	-28%	
	40	0.438	0.510	0.072	16%	0.438	0.515	0.077	18%	0.438	0.515	0.077	18%	
	35	0.438	0.520	0.082	19%	0.438	0.515	0.077	18%	0.438	0.510	0.072	16%	
	30	0.438	0.380	-0.058	-13%	0.438	0.285	-0.153	-35%	0.438	0.300	-0.138	-32%	
	25	0.438	0.440	0.002	0%	0.438	0.435	-0.003	-1%	0.438	0.340	-0.098	-22%	
	20	0.438	0.390	-0.048	-11%	0.438	0.285	-0.153	-35%	0.438	0.200	-0.238	-54%	
	15	0.438	0.350	-0.088	-20%	0.438	0.145	-0.293	-67%	0.438	0.325	-0.113	-26%	
10	0.438	0.245	-0.193	-44%	0.438	0.320	-0.118	-27%	0.438	0.235	-0.203	-46%		
	5	0.438	0.358	-0.080	-18%	0.438	0.252	-0.186	-42%	0.438	0.280	-0.158	-36%	

Appendix 4 Comparison: Wing Wall Exterior - West

< North

Feet		300				295					290			
Belt #		Built	60	Diff	%	Built	59	Diff	%	Built	58	Diff	%	
Above Waterline	69	0.500	0.520	0.020	4%									
	60	0.500	0.444	-0.056	-11%									
	50	0.438	0.350	-0.088	-20%	0.438	0.500	0.062	14%	0.438	0.495	0.057	13%	
	45	0.438	0.275	-0.163	-37%	0.438	0.500	0.062	14%	0.438	0.495	0.057	13%	
	40	0.438	0.510	0.072	16%	0.438	0.515	0.077	18%	0.438	0.495	0.057	13%	
	35	0.438	0.515	0.077	18%	0.438	0.510	0.072	16%	0.438	0.495	0.057	13%	
	30	0.438	0.295	-0.143	-33%	0.438	0.280	-0.158	-36%	0.438	0.285	-0.153	-35%	
	25	0.438	0.362	-0.076	-17%	0.438	0.260	-0.178	-41%	0.438	0.435	-0.003	-1%	
20	0.438	0.402	-0.036	-8%	0.438	0.170	-0.268	-61%	0.438	0.395	-0.043	-10%		
15	0.438	0.397	-0.041	-9%	0.438	0.345	-0.093	-21%	0.438	0.235	-0.203	-46%		
10	0.438	0.205	-0.233	-53%	0.438	0.240	-0.198	-45%	0.438	0.380	-0.058	-13%		
	5	0.438	0.280	-0.158	-36%	0.438	0.320	-0.118	-27%	0.438	0.290	-0.148	-34%	

Appendix 4 Comparison: Wing Wall Exterior - West

< North

Feet		285				280					275			
Belt #		Built	57	Diff	%	Built	56	Diff	%	Built	55	Diff	%	
Above Waterline	69													
	60													
	50	0.438	0.495	0.057	13%	0.438	0.240	-0.198	-45%	0.438	0.335	-0.103	-24%	
	45	0.438	0.495	0.057	13%	0.438	0.400	-0.038	-9%	0.438	0.350	-0.088	-20%	
	40	0.438	0.495	0.057	13%	0.438	0.430	-0.008	-2%	0.438	0.335	-0.103	-24%	
	35	0.438	0.495	0.057	13%	0.438	0.460	0.022	5%	0.438	0.305	-0.133	-30%	
	30	0.438	0.300	-0.138	-32%	0.438	0.395	-0.043	-10%	0.438	0.345	-0.093	-21%	
	25	0.438	0.340	-0.098	-22%	0.438	0.230	-0.208	-47%	0.438	0.245	-0.193	-44%	
	20	0.438	0.350	-0.088	-20%	0.438	0.390	-0.048	-11%	0.438	0.400	-0.038	-9%	
	15	0.438	0.400	-0.038	-9%	0.438	0.220	-0.218	-50%	0.438	0.345	-0.093	-21%	
10	0.438	0.395	-0.043	-10%	0.438	0.315	-0.123	-28%	0.438	0.255	-0.183	-42%		
	5	0.438	0.262	-0.176	-40%	0.438	0.266	-0.172	-39%	0.438	0.202	-0.236	-54%	

Appendix 4 Comparison: Wing Wall Exterior - West

< North

Feet		270				265				260			
Belt #	Built	54	Diff	%	Built	53	Diff	%	Built	52	Diff	%	
Above Waterline	69								0.500	0.522	0.022	4%	
	60								0.500	0.388	-0.112	-22%	
	50	0.438	0.270	-0.168	-38%	0.438	0.330	-0.108	-25%	0.438	0.352	-0.086	-20%
	45	0.438	0.140	-0.298	-68%	0.438	0.135	-0.303	-69%	0.438	0.340	-0.098	-22%
	40	0.438	0.230	-0.208	-47%	0.438	0.325	-0.113	-26%	0.438	0.300	-0.138	-32%
	35	0.438	0.235	-0.203	-46%	0.438	0.220	-0.218	-50%	0.438	0.442	0.004	1%
	30	0.438	0.325	-0.113	-26%	0.438	0.160	-0.278	-63%	0.438	0.344	-0.094	-21%
	25	0.438	0.260	-0.178	-41%	0.438	0.260	-0.178	-41%	0.438	0.306	-0.132	-30%
	20	0.438	0.390	-0.048	-11%	0.438	0.395	-0.043	-10%	0.438	0.410	-0.028	-6%
	15	0.438	0.195	-0.243	-55%	0.438	0.260	-0.178	-41%	0.438	0.205	-0.233	-53%
	10	0.438	0.340	-0.098	-22%	0.438	0.300	-0.138	-32%	0.438	0.230	-0.208	-47%
	5	0.438	0.210	-0.228	-52%	0.438	0.344	-0.094	-21%	0.438	0.238	-0.200	-46%

Appendix 4 Comparison: Wing Wall Exterior - West

< North

Feet		255				250					245			
Belt #		Built	51	Diff	%	Built	50	Diff	%	Built	49	Diff	%	
Above Waterline	69													
	60													
	50	0.438	0.345	-0.093	-21%	0.438	0.420	-0.018	-4%	0.438	0.255	-0.183	-42%	
	45	0.438	0.295	-0.143	-33%	0.438	0.280	-0.158	-36%	0.438	0.315	-0.123	-28%	
	40	0.438	0.250	-0.188	-43%	0.438	0.310	-0.128	-29%	0.438	0.260	-0.178	-41%	
	35	0.438	0.405	-0.033	-8%	0.438	0.400	-0.038	-9%	0.438	0.170	-0.268	-61%	
	30	0.438	0.320	-0.118	-27%	0.438	0.340	-0.098	-22%	0.438	0.325	-0.113	-26%	
	25	0.438	0.375	-0.063	-14%	0.438	0.380	-0.058	-13%	0.438	0.475	0.037	8%	
	20	0.438	0.390	-0.048	-11%	0.438	0.390	-0.048	-11%	0.438	0.380	-0.058	-13%	
	15	0.438	0.365	-0.073	-17%	0.438	0.345	-0.093	-21%	0.438	0.355	-0.083	-19%	
10	0.438	0.225	-0.213	-49%	0.438	0.245	-0.193	-44%	0.438	0.375	-0.063	-14%		
	5	0.438	0.202	-0.236	-54%	0.438	0.290	-0.148	-34%	0.438	0.286	-0.152	-35%	

Appendix 4 Comparison: Wing Wall Exterior - West

< North

Feet		240				235					230			
Belt #		Built	48	Diff	%	Built	47	Diff	%	Built	46	Diff	%	
Above Waterline	69													
	60													
	50	0.438	0.505	0.067	15%	0.438	0.505	0.067	15%	0.438	0.505	0.067	15%	
	45	0.438	0.510	0.072	16%	0.438	0.510	0.072	16%	0.438	0.510	0.072	16%	
	40	0.438	0.515	0.077	18%	0.438	0.515	0.077	18%	0.438	0.515	0.077	18%	
	35	0.438	0.510	0.072	16%	0.438	0.510	0.072	16%	0.438	0.510	0.072	16%	
	30	0.438	0.515	0.077	18%	0.438	0.515	0.077	18%	0.438	0.515	0.077	18%	
	25	0.438	0.870	0.432	99%	0.438	0.480	0.042	10%	0.438	0.310	-0.128	-29%	
	20	0.438	0.390	-0.048	-11%	0.438	0.395	-0.043	-10%	0.438	0.370	-0.068	-16%	
	15	0.438	0.270	-0.168	-38%	0.438	0.390	-0.048	-11%	0.438	0.230	-0.208	-47%	
10	0.438	0.305	-0.133	-30%	0.438	0.300	-0.138	-32%	0.438	0.305	-0.133	-30%		
	5	0.438	0.176	-0.262	-60%	0.438	0.122	-0.316	-72%	0.438	0.188	-0.250	-57%	

Appendix 4 Comparison: Wing Wall Exterior - West

< North

Feet		225				220				215			
Belt #	Built	45	Diff	%	Built	44	Diff	%	Built	43	Diff	%	
Above Waterline	69				0.500	0.506	0.006	1%					
	60				0.500	0.508	0.008	2%					
	50	0.438	0.505	0.067	15%	0.438	0.516	0.078	18%	0.438	0.505	0.067	15%
	45	0.438	0.510	0.072	16%	0.438	0.510	0.072	16%	0.438	0.510	0.072	16%
	40	0.438	0.515	0.077	18%	0.438	0.510	0.072	16%	0.438	0.515	0.077	18%
	35	0.438	0.510	0.072	16%	0.438	0.510	0.072	16%	0.438	0.510	0.072	16%
	30	0.438	0.515	0.077	18%	0.438	0.510	0.072	16%	0.438	0.515	0.077	18%
	25	0.438	0.260	-0.178	-41%	0.438	0.230	-0.208	-47%	0.438	0.325	-0.113	-26%
	20	0.438	0.375	-0.063	-14%	0.438	0.385	-0.053	-12%	0.438	0.390	-0.048	-11%
	15	0.438	0.410	-0.028	-6%	0.438	0.435	-0.003	-1%	0.438	0.425	-0.013	-3%
10	0.438	0.315	-0.123	-28%	0.438	0.365	-0.073	-17%	0.438	0.345	-0.093	-21%	
5	0.438	0.286	-0.152	-35%	0.438	0.260	-0.178	-41%	0.438	0.268	-0.170	-39%	

Appendix 4 Comparison: Wing Wall Exterior - West

< North

Feet		210				205				200			
Belt #		Built	42	Diff	%	Built	41	Diff	%	Built	40	Diff	%
Above Waterline	69												
	60												
	50	0.438	0.505	0.067	15%	0.438	0.505	0.067	15%	0.438	0.500	0.062	14%
	45	0.438	0.510	0.072	16%	0.438	0.510	0.072	16%	0.438	0.505	0.067	15%
	40	0.438	0.515	0.077	18%	0.438	0.515	0.077	18%	0.438	0.360	-0.078	-18%
	35	0.438	0.510	0.072	16%	0.438	0.510	0.072	16%	0.438	0.230	-0.208	-47%
	30	0.438	0.515	0.077	18%	0.438	0.515	0.077	18%	0.438	0.310	-0.128	-29%
	25	0.438	0.340	-0.098	-22%	0.438	0.265	-0.173	-39%	0.438	0.360	-0.078	-18%
	20	0.438	0.395	-0.043	-10%	0.438	0.385	-0.053	-12%	0.438	0.390	-0.048	-11%
	15	0.438	0.435	-0.003	-1%	0.438	0.380	-0.058	-13%	0.438	0.395	-0.043	-10%
10	0.438	0.290	-0.148	-34%	0.438	0.375	-0.063	-14%	0.438	0.345	-0.093	-21%	
5	0.438	0.292	-0.146	-33%	0.438	0.362	-0.076	-17%	0.438	0.368	-0.070	-16%	

Appendix 4 Comparison: Wing Wall Exterior - West

< North

Feet		195				190					185			
Belt #		Built	39	Diff	%	Built	38	Diff	%	Built	37	Diff	%	
Above Waterline	69													
	60													
	50	0.438	0.505	0.067	15%	0.438	0.500	0.062	14%	0.438	0.505	0.067	15%	
	45	0.438	0.500	0.062	14%	0.438	0.505	0.067	15%	0.438	0.500	0.062	14%	
	40	0.438	0.230	-0.208	-47%	0.438	0.400	-0.038	-9%	0.438	0.420	-0.018	-4%	
	35	0.438	0.300	-0.138	-32%	0.438	0.215	-0.223	-51%	0.438	0.315	-0.123	-28%	
	30	0.438	0.380	-0.058	-13%	0.438	0.355	-0.083	-19%	0.438	0.340	-0.098	-22%	
	25	0.438	0.400	-0.038	-9%	0.438	0.450	0.012	3%	0.438	0.385	-0.053	-12%	
	20	0.438	0.380	-0.058	-13%	0.438	0.390	-0.048	-11%	0.438	0.395	-0.043	-10%	
	15	0.438	0.246	-0.192	-44%	0.438	0.355	-0.083	-19%	0.438	0.360	-0.078	-18%	
10	0.438	0.325	-0.113	-26%	0.438	0.343	-0.095	-22%	0.438	0.390	-0.048	-11%		
	5	0.438	0.218	-0.220	-50%	0.438	0.232	-0.206	-47%	0.438	0.340	-0.098	-22%	

Appendix 4 Comparison: Wing Wall Exterior - West

< North

Feet		180				175				170			
Belt #		Built	36	Diff	%	Built	35	Diff	%	Built	34	Diff	%
Above Waterline	69	0.500	0.480	-0.020	-4%								
	60	0.500	0.508	0.008	2%								
	50	0.438	0.506	0.068	16%	0.438	0.505	0.067	15%	0.438	0.500	0.062	14%
	45	0.438	0.500	0.062	14%	0.438	0.500	0.062	14%	0.438	0.505	0.067	15%
	40	0.438	0.372	-0.066	-15%	0.438	0.310	-0.128	-29%	0.438	0.390	-0.048	-11%
	35	0.438	0.392	-0.046	-11%	0.438	0.305	-0.133	-30%	0.438	0.320	-0.118	-27%
	30	0.438	0.400	-0.038	-9%	0.438	0.390	-0.048	-11%	0.438	0.285	-0.153	-35%
	25	0.438	0.402	-0.036	-8%	0.438	0.285	-0.153	-35%	0.438	0.200	-0.238	-54%
	20	0.438	0.360	-0.078	-18%	0.438	0.370	-0.068	-16%	0.438	0.380	-0.058	-13%
	15	0.438	0.310	-0.128	-29%	0.438	0.410	-0.028	-6%	0.438	0.390	-0.048	-11%
	10	0.438	0.340	-0.098	-22%	0.438	0.155	-0.283	-65%	0.438	0.335	-0.103	-24%
	5	0.438	0.130	-0.308	-70%	0.438	0.335	-0.103	-24%	0.438	0.330	-0.108	-25%

Appendix 4 Comparison: Wing Wall Exterior - West

< North

Feet		165				160				155			
Belt #		Built	33	Diff	%	Built	32	Diff	%	Built	31	Diff	%
Above Waterline	69												
	60												
	50	0.438	0.505	0.067	15%	0.438	0.355	-0.083	-19%	0.438	0.285	-0.153	-35%
	45	0.438	0.500	0.062	14%	0.438	0.350	-0.088	-20%	0.438	0.310	-0.128	-29%
	40	0.438	0.330	-0.108	-25%	0.438	0.205	-0.233	-53%	0.438	0.360	-0.078	-18%
	35	0.438	0.320	-0.118	-27%	0.438	0.335	-0.103	-24%	0.438	0.325	-0.113	-26%
	30	0.438	0.160	-0.278	-63%	0.438	0.245	-0.193	-44%	0.438	0.285	-0.153	-35%
	25	0.438	0.250	-0.188	-43%	0.438	0.365	-0.073	-17%	0.438	0.315	-0.123	-28%
	20	0.438	0.385	-0.053	-12%	0.438	0.365	-0.073	-17%	0.438	0.365	-0.073	-17%
	15	0.438	0.340	-0.098	-22%	0.438	0.385	-0.053	-12%	0.438	0.395	-0.043	-10%
10	0.438	0.325	-0.113	-26%	0.438	0.310	-0.128	-29%	0.438	0.315	-0.123	-28%	
5	0.438	0.330	-0.108	-25%	0.438	0.295	-0.143	-33%	0.438	0.350	-0.088	-20%	

Appendix 4 Comparison: Wing Wall Exterior - West

< North

Feet		150				145					140			
Belt #		Built	30	Diff	%	Built	29	Diff	%	Built	28	Diff	%	
Above Waterline	69									0.500	0.544	0.044	9%	
	60									0.500	0.345	-0.155	-31%	
	50	0.438	0.205	-0.233	-53%	0.438	0.305	-0.133	-30%	0.438	0.235	-0.203	-46%	
	45	0.438	0.265	-0.173	-39%	0.438	0.235	-0.203	-46%	0.438	0.355	-0.083	-19%	
	40	0.438	0.320	-0.118	-27%	0.438	0.390	-0.048	-11%	0.438	0.295	-0.143	-33%	
	35	0.438	0.240	-0.198	-45%	0.438	0.395	-0.043	-10%	0.438	0.309	-0.129	-29%	
	30	0.438	0.120	-0.318	-73%	0.438	0.295	-0.143	-33%	0.438	0.330	-0.108	-25%	
	25	0.438	0.440	0.002	0%	0.438	0.345	-0.093	-21%	0.438	0.340	-0.098	-22%	
	20	0.438	0.370	-0.068	-16%	0.438	0.385	-0.053	-12%	0.438	0.380	-0.058	-13%	
	15	0.438	0.365	-0.073	-17%	0.438	0.370	-0.068	-16%	0.438	0.429	-0.009	-2%	
10	0.438	0.325	-0.113	-26%	0.438	0.330	-0.108	-25%	0.438	0.300	-0.138	-32%		
	5	0.438	0.170	-0.268	-61%	0.438	0.120	-0.318	-73%	0.438	0.350	-0.088	-20%	

Appendix 4 Comparison: Wing Wall Exterior - West

< North

Feet		135				130					125			
Belt #		Built	27	Diff	%	Built	26	Diff	%	Built	25	Diff	%	
Above Waterline	69													
	60													
	50	0.438	0.390	-0.048	-11%	0.438	0.315	-0.123	-28%	0.438	0.340	-0.098	-22%	
	45	0.438	0.185	-0.253	-58%	0.438	0.300	-0.138	-32%	0.438	0.295	-0.143	-33%	
	40	0.438	0.260	-0.178	-41%	0.438	0.300	-0.138	-32%	0.438	0.345	-0.093	-21%	
	35	0.438	0.320	-0.118	-27%	0.438	0.310	-0.128	-29%	0.438	0.285	-0.153	-35%	
	30	0.438	0.235	-0.203	-46%	0.438	0.315	-0.123	-28%	0.438	0.375	-0.063	-14%	
	25	0.438	0.375	-0.063	-14%	0.438	0.300	-0.138	-32%	0.438	0.290	-0.148	-34%	
	20	0.438	0.365	-0.073	-17%	0.438	0.370	-0.068	-16%	0.438	0.395	-0.043	-10%	
	15	0.438	0.345	-0.093	-21%	0.438	0.350	-0.088	-20%	0.438	0.355	-0.083	-19%	
10	0.438	0.300	-0.138	-32%	0.438	0.315	-0.123	-28%	0.438	0.385	-0.053	-12%		
	5	0.438	0.210	-0.228	-52%	0.438	0.270	-0.168	-38%	0.438	0.170	-0.268	-61%	

Appendix 4 Comparison: Wing Wall Exterior - West

< North

Feet		120				115					110			
Belt #		Built	24	Diff	%	Built	23	Diff	%	Built	22	Diff	%	
Above Waterline	69													
	60													
	50	0.438	0.370	-0.068	-16%	0.438	0.384	-0.054	-12%	0.438	0.360	-0.078	-18%	
	45	0.438	0.350	-0.088	-20%	0.438	0.505	0.067	15%	0.438	0.505	0.067	15%	
	40	0.438	0.345	-0.093	-21%	0.438	0.505	0.067	15%	0.438	0.505	0.067	15%	
	35	0.438	0.310	-0.128	-29%	0.438	0.495	0.057	13%	0.438	0.495	0.057	13%	
	30	0.438	0.300	-0.138	-32%		Box				Box			
	25	0.438	0.340	-0.098	-22%		Box				Box			
	20	0.438	0.350	-0.088	-20%		Box				Box			
	15	0.438	0.345	-0.093	-21%	0.438	0.360	-0.078	-18%	0.438	0.280	-0.158	-36%	
10	0.438	0.355	-0.083	-19%	0.438	0.355	-0.083	-19%	0.438	0.270	-0.168	-38%		
5	0.438	0.125	-0.313	-71%	0.438	0.115	-0.323	-74%	0.438	0.195	-0.243	-55%		

Appendix 4 Comparison: Wing Wall Exterior - West

< North

Feet		105				100					95				
Belt #		Built	21	Diff	%	Built	20	Diff	%	Built	19	Diff	%		
Above Waterline	69					0.500	0.510	0.010	2%						
	60					0.500	0.492	-0.008	-2%						
	50	0.438	0.405	-0.033	-8%	0.438	0.260	-0.178	-41%	0.438	0.370	-0.068	-16%		
	45	0.438	0.495	0.057	13%	0.438	0.505	0.067	15%	0.438	0.495	0.057	13%		
	40	0.438	0.505	0.067	15%	0.438	0.505	0.067	15%	0.438	0.505	0.067	15%		
	35	0.438	0.500	0.062	14%	0.438	0.495	0.057	13%	0.438	0.500	0.062	14%		
	30		Box				Box				Box				
	25		Box				Box				Box				
	20		Box				Box				Box				
	15	0.438	0.425	-0.013	-3%	0.438	0.456	0.018	4%	0.438	0.415	-0.023	-5%		
	10	0.438	0.245	-0.193	-44%	0.438	0.310	-0.128	-29%	0.438	0.300	-0.138	-32%		
	5	0.438	0.170	-0.268	-61%	0.438	0.230	-0.208	-47%	0.438	0.370	-0.068	-16%		

Appendix 4 Comparison: Wing Wall Exterior - West

< North

Feet		90				85					80			
Belt #		Built	18	Diff	%	Built	17	Diff	%	Built	16	Diff	%	
Above Waterline	69													
	60													
	50	0.438	0.384	-0.054	-12%	0.438	0.360	-0.078	-18%	0.438	0.405	-0.033	-8%	
	45	0.438	0.495	0.057	13%	0.438	0.505	0.067	15%	0.438	0.495	0.057	13%	
	40	0.438	0.505	0.067	15%	0.438	0.505	0.067	15%	0.438	0.505	0.067	15%	
	35	0.438	0.500	0.062	14%	0.438	0.495	0.057	13%	0.438	0.500	0.062	14%	
	30		Box				Box				Box			
	25		Box				Box				Box			
	20		Box				Box				Box			
	15	0.438	0.410	-0.028	-6%	0.438	0.425	-0.013	-3%	0.438	0.425	-0.013	-3%	
10	0.438	0.220	-0.218	-50%	0.438	0.235	-0.203	-46%	0.438	0.235	-0.203	-46%		
	5	0.438	0.352	-0.086	-20%	0.438	0.304	-0.134	-31%	0.438	0.248	-0.190	-43%	

Appendix 4 Comparison: Wing Wall Exterior - West

< North

Feet		75				70					65			
Belt #		Built	15	Diff	%	Built	14	Diff	%	Built	13	Diff	%	
Above Waterline	69													
	60													
	50	0.438	0.435	-0.003	-1%	0.438	0.385	-0.053	-12%	0.438	0.460	0.022	5%	
	45	0.438	0.435	-0.003	-1%	0.438	0.415	-0.023	-5%	0.438	0.405	-0.033	-8%	
	40	0.438	0.495	0.057	13%	0.438	0.495	0.057	13%	0.438	0.505	0.067	15%	
	35	0.438	0.505	0.067	15%	0.438	0.505	0.067	15%	0.438	0.505	0.067	15%	
	30	0.438	0.500	0.062	14%	0.438	0.500	0.062	14%	0.438	0.495	0.057	13%	
	25	0.438	0.295	-0.143	-33%	0.438	0.370	-0.068	-16%	0.438	0.210	-0.228	-52%	
	20	0.438	0.305	-0.133	-30%	0.438	0.365	-0.073	-17%	0.438	0.290	-0.148	-34%	
	15	0.438	0.315	-0.123	-28%	0.438	0.360	-0.078	-18%	0.438	0.345	-0.093	-21%	
10	0.438	0.300	-0.138	-32%	0.438	0.225	-0.213	-49%	0.438	0.305	-0.133	-30%		
5	0.438	0.270	-0.168	-38%	0.438	0.350	-0.088	-20%	0.438	0.246	-0.192	-44%		

Appendix 4 Comparison: Wing Wall Exterior - West

< North

Feet		60				55				50			
Belt #	Built	12	Diff	%	Built	11	Diff	%	Built	10	Diff	%	
Above Waterline	69	0.500	0.482	-0.018	-4%								
	60	0.500	0.346	-0.154	-31%								
	50	0.438	0.406	-0.032	-7%	0.438	0.430	-0.008	-2%	0.438	0.405	-0.033	-8%
	45	0.438	0.355	-0.083	-19%	0.438	0.435	-0.003	-1%	0.438	0.375	-0.063	-14%
	40	0.438	0.356	-0.082	-19%	0.438	0.373	-0.065	-15%	0.438	0.365	-0.073	-17%
	35	0.438	0.456	0.018	4%	0.438	0.365	-0.073	-17%	0.438	0.430	-0.008	-2%
	30	0.438	0.403	-0.035	-8%	0.438	0.305	-0.133	-30%	0.438	0.395	-0.043	-10%
	25	0.438	0.240	-0.198	-45%	0.438	0.380	-0.058	-13%	0.438	0.385	-0.053	-12%
	20	0.438	0.360	-0.078	-18%	0.438	0.405	-0.033	-8%	0.438	0.380	-0.058	-13%
	15	0.438	0.300	-0.138	-32%	0.438	0.260	-0.178	-41%	0.438	0.395	-0.043	-10%
10	0.438	0.350	-0.088	-20%	0.438	0.220	-0.218	-50%	0.438	0.310	-0.128	-29%	
5	0.438	0.220	-0.218	-50%	0.438	0.216	-0.222	-51%	0.438	0.220	-0.218	-50%	

Appendix 4 Comparison: Wing Wall Exterior - West

< North

Feet		45				40					35			
Belt #		Built	9	Diff	%	Built	8	Diff	%	Built	7	Diff	%	
Above Waterline	69													
	60													
	50	0.438	0.390	-0.048	-11%	0.438	0.340	-0.098	-22%	0.438	0.380	-0.058	-13%	
	45	0.438	0.335	-0.103	-24%	0.438	0.445	0.007	2%	0.438	0.530	0.092	21%	
	40	0.438	0.390	-0.048	-11%	0.438	0.340	-0.098	-22%	0.438	0.500	0.062	14%	
	35	0.438	0.340	-0.098	-22%	0.438	0.325	-0.113	-26%	0.438	0.340	-0.098	-22%	
	30	0.438	0.315	-0.123	-28%	0.438	0.380	-0.058	-13%	0.438	0.380	-0.058	-13%	
	25	0.438	0.360	-0.078	-18%	0.438	0.385	-0.053	-12%	0.438	0.335	-0.103	-24%	
	20	0.438	0.375	-0.063	-14%	0.438	0.430	-0.008	-2%	0.438	0.265	-0.173	-39%	
	15	0.438	0.335	-0.103	-24%	0.438	0.345	-0.093	-21%	0.438	0.325	-0.113	-26%	
10	0.438	0.295	-0.143	-33%	0.438	0.335	-0.103	-24%	0.438	0.225	-0.213	-49%		
	5	0.438	0.204	-0.234	-53%	0.438	0.316	-0.122	-28%	0.438	0.285	-0.153	-35%	

Appendix 4 Comparison: Wing Wall Exterior - West

< North

Feet		30				25					20			
Belt #		Built	6	Diff	%	Built	5	Diff	%	Built	4	Diff	%	
Above Waterline	69									0.500	0.450	-0.050	-10%	
	60									0.500	0.440	-0.060	-12%	
	50	0.438	0.440	0.002	0%	0.438	0.435	-0.003	-1%	0.438	0.430	-0.008	-2%	
	45	0.438	0.445	0.007	2%	0.438	0.435	-0.003	-1%	0.438	0.435	-0.003	-1%	
	40	0.438	0.440	0.002	0%	0.438	0.435	-0.003	-1%	0.438	0.440	0.002	0%	
	35	0.438	0.380	-0.058	-13%	0.438	0.425	-0.013	-3%	0.438	0.445	0.007	2%	
	30	0.438	0.400	-0.038	-9%	0.438	0.420	-0.018	-4%	0.438	0.390	-0.048	-11%	
	25	0.438	0.343	-0.095	-22%	0.438	0.385	-0.053	-12%	0.438	0.300	-0.138	-32%	
	20	0.438	0.395	-0.043	-10%	0.438	0.380	-0.058	-13%	0.438	0.385	-0.053	-12%	
	15	0.438	0.340	-0.098	-22%	0.438	0.345	-0.093	-21%	0.438	0.365	-0.073	-17%	
10	0.438	0.340	-0.098	-22%	0.438	0.360	-0.078	-18%	0.438	0.390	-0.048	-11%		
	5	0.438	0.220	-0.218	-50%	0.438	0.224	-0.214	-49%	0.438	0.282	-0.156	-36%	

Appendix 4 Comparison: Wing Wall Exterior - West

		West Wing Wall Exterior												
		< North												
Feet		15				10					5			
Belt #	Built	3	Diff	%		Built	2	Diff	%		Built	1	Diff	%
Above Waterline	69													
	60													
	50	0.438	0.405	-0.033	-8%	0.438	0.385	-0.053	-12%	0.438	0.460	0.022	5%	
	45	0.438	0.375	-0.063	-14%	0.438	0.415	-0.023	-5%	0.438	0.405	-0.033	-8%	
	40	0.438	0.380	-0.058	-13%	0.438	0.400	-0.038	-9%	0.438	0.380	-0.058	-13%	
	35	0.438	0.345	-0.093	-21%	0.438	0.385	-0.053	-12%	0.438	0.345	-0.093	-21%	
	30	0.438	0.405	-0.033	-8%	0.438	0.415	-0.023	-5%	0.438	0.445	0.007	2%	
	25	0.438	0.410	-0.028	-6%	0.438	0.455	0.017	4%	0.438	0.460	0.022	5%	
	20	0.438	0.350	-0.088	-20%	0.438	0.390	-0.048	-11%	0.438	0.305	-0.133	-30%	
	15	0.438	0.395	-0.043	-10%	0.438	0.310	-0.128	-29%	0.438	0.390	-0.048	-11%	
10	0.438	0.395	-0.043	-10%	0.438	0.305	-0.133	-30%	0.438	0.305	-0.133	-30%		
	5	0.438	0.268	-0.170	-39%	0.438	0.290	-0.148	-34%	0.438	0.334	-0.104	-24%	

Appendix 4 Comparison: Wing Wall Exterior - West

It looks like this was just an extra page printed from the spreadsheet with no data on it

< North

	Feet		South	
	Belt #		Belt #	
	69		69	
	60		60	
	50		50	
	45		45	
	40		40	
	35		35	
	30		30	
	25		25	
	20		20	
	15		15	
	10		10	
	5		5	

Appendix 5: Wing Wall Interior - East

Wing Wall Interior UTs taken January 2016. This data was not revised in August 2016.
Shot on a 40' horizontal x 10' vertical grid.

East Wing Wall Interior

< North

Feet	790	780	770	760	750	740	730	720	710	700	690	680
Belt	79	78	77	76	75	74	73	72	71	70	69	68
45'		0.508				0.51				0.520		
40'		0.485				0.508				0.524		
30'		0.420				0.480				0.485		
20'		0.375				0.410				0.385		
10'		0.415				0.370				0.376		
Deck												

Appendix 5: Wing Wall Interior - East

East Wing Wa
< North

Feet	670	660	650	640	630	620	610	600	590	580	570	560
Belt	67	66	65	64	63	62	61	60	59	58	57	56
45'		0.496				0.512				0.523		
40'		0.440				0.400				0.456		
30'		0.390				0.423				0.412		
20'		0.440				0.423				0.469		
10'		0.416				0.406				0.468		
Deck												

Appendix 5: Wing Wall Interior - East

East Wing Wa
< North

Feet	550	540	530	520	510	500	490	480	470	460	450	440
Belt	55	54	53	52	51	50	49	48	47	46	45	44
45'		0.401				0.512				0.516		
40'		0.412				0.442				0.423		
30'		0.456				0.444				0.504		
20'		0.481				0.410				0.412		
10'		0.433				0.456				0.465		
Deck												

Appendix 5: Wing Wall Interior - East

East Wing Wa
< North

Feet	430	420	410	400	390	380	370	360	350	340	330	320
Belt	43	42	41	40	39	38	37	36	35	34	33	32
45'		0.510				0.456				0.512		
40'		0.415				0.445				0.423		
30'		0.456				0.41				0.443		
20'		0.423				0.405				0.41		
10'		0.434				0.312				0.405		
Deck												

Appendix 5: Wing Wall Interior - East

East Wing Wa
< North

Feet	310	300	290	280	270	260	250	240	230	220	210	200
Belt	31	30	29	28	27	26	25	24	23	22	21	20
45'		0.424				534				0.495		
40'		0.413				0.495				0.41		
30'		0.424				0.512				0.434		
20'		0.495				0.435				0.465		
10'		0.465				0.41				0.405		
Deck												

Appendix 5: Wing Wall Interior - East

East Wing Wa
< North

Feet	190	180	170	160	150	140	130	120	110	100	90	80
Belt	19	18	17	16	15	14	13	12	11	10	9	8
45'		0.51				0.503				0.546		
40'		0.415				0.456				0.408		
30'		0.494				0.434				0.444		
20'		0.434				0.405				0.424		
10'		0.475				0.443				0.405		
Deck												

Appendix 5: Wing Wall Interior - East

East Wing Wall Interior < North		East Wing Wall Interior							South >	
Feet		70	60	50	40	30	20	10		Feet
Belt		7	6	5	4	3	2	1		Belt
45'			0.485				0.522			45'
40'			0.435				0.408			40'
30'			0.465				0.445			30'
20'			0.402				0.485			20'
10'			0.418				0.432			10'
Deck										Deck

Appendix 5 Comparison: Wing Wall Interior - East

< North

Feet	780				740				700				660			
Belt	Built	78	Diff	%	Built	74	Diff	%	Built	70	Diff	%	Built	66	Diff	%
45'	0.500	0.508	0.008	0.016	0.500	0.51	0.010	0.020	0.500	0.520	0.020	0.040	0.500	0.496	-0.004	-0.008
40'	0.500	0.485	-0.015	-0.030	0.500	0.508	0.008	0.016	0.500	0.524	0.024	0.048	0.500	0.440	-0.060	-0.120
30'	0.438	0.420	-0.018	-0.041	0.438	0.480	0.042	0.096	0.438	0.485	0.047	0.107	0.438	0.390	-0.048	-0.110
20'	0.438	0.375	-0.063	-0.144	0.438	0.410	-0.028	-0.064	0.438	0.385	-0.053	-0.121	0.438	0.440	0.002	0.005
10'	0.438	0.415	-0.023	-0.053	0.438	0.370	-0.068	-0.155	0.438	0.376	-0.062	-0.142	0.438	0.416	-0.022	-0.050
Deck																

< North

Feet	620				580				540				500			
Belt	Built	62	Diff	%	Built	58	Diff	%	Built	54	Diff	%	Built	50	Diff	%
45'	0.500	0.512	0.012	0.024	0.500	0.523	0.023	0.046	0.500	0.401	-0.099	-0.198	0.500	0.512	0.012	0.024
40'	0.500	0.400	-0.100	-0.200	0.500	0.456	-0.044	-0.088	0.500	0.412	-0.088	-0.176	0.500	0.442	-0.058	-0.116
30'	0.438	0.423	-0.015	-0.034	0.438	0.412	-0.026	-0.059	0.438	0.456	0.018	0.041	0.438	0.444	0.006	0.014
20'	0.438	0.423	-0.015	-0.034	0.438	0.469	0.031	0.071	0.438	0.481	0.043	0.098	0.438	0.410	-0.028	-0.064
10'	0.438	0.406	-0.032	-0.073	0.438	0.468	0.030	0.068	0.438	0.433	-0.005	-0.011	0.438	0.456	0.018	0.041
Deck																

< North

Feet	460				420				380				340			
Belt	Built	46	Diff	%	Built	42	Diff	%	Built	38	Diff	%	Built	34	Diff	%
45'	0.500	0.516	0.016	0.032	0.500	0.510	0.010	0.020	0.500	0.456	-0.044	-0.088	0.500	0.512	0.012	0.024
40'	0.500	0.423	-0.077	-0.154	0.500	0.415	-0.085	-0.170	0.500	0.445	-0.055	-0.110	0.500	0.423	-0.077	-0.154
30'	0.438	0.504	0.066	0.151	0.438	0.456	0.018	0.041	0.438	0.41	-0.028	-0.064	0.438	0.443	0.005	0.011
20'	0.438	0.412	-0.026	-0.059	0.438	0.423	-0.015	-0.034	0.438	0.405	-0.033	-0.075	0.438	0.41	-0.028	-0.064
10'	0.438	0.465	0.027	0.062	0.438	0.434	-0.004	-0.009	0.438	0.312	-0.126	-0.288	0.438	0.405	-0.033	-0.075
Deck																

< North

Feet	300				260				220				180			
Belt	Built	30	Diff	%	Built	26	Diff	%	Built	22	Diff	%	Built	18	Diff	%
45'	0.500	0.424	-0.076	-0.152	0.500	0.534	0.034	0.068	0.500	0.495	-0.005	-0.010	0.500	0.51	0.010	0.020
40'	0.500	0.413	-0.087	-0.174	0.500	0.495	-0.005	-0.010	0.500	0.41	-0.090	-0.180	0.500	0.415	-0.085	-0.170
30'	0.438	0.424	-0.014	-0.032	0.438	0.512	0.074	0.169	0.438	0.434	-0.004	-0.009	0.438	0.494	0.056	0.128
20'	0.438	0.495	0.057	0.130	0.438	0.435	-0.003	-0.007	0.438	0.465	0.027	0.062	0.438	0.434	-0.004	-0.009
10'	0.438	0.465	0.027	0.062	0.438	0.41	-0.028	-0.064	0.438	0.405	-0.033	-0.075	0.438	0.475	0.037	0.084
Deck																

< North

Feet	140				100				60				20			
Belt	Built	14	Diff	%	Built	10	Diff	%	Built	6	Diff	%	Built	2	Diff	%
45'	0.500	0.503	0.003	0.006	0.500	0.546	0.046	0.092	0.500	0.485	-0.015	-0.030	0.500	0.522	0.022	0.044
40'	0.500	0.456	-0.044	-0.088	0.500	0.408	-0.092	-0.184	0.500	0.435	-0.065	-0.130	0.500	0.408	-0.092	-0.184
30'	0.438	0.434	-0.004	-0.009	0.438	0.444	0.006	0.014	0.438	0.465	0.027	0.062	0.438	0.445	0.007	0.016
20'	0.438	0.405	-0.033	-0.075	0.438	0.424	-0.014	-0.032	0.438	0.402	-0.036	-0.082	0.438	0.485	0.047	0.107
10'	0.438	0.443	0.005	0.011	0.438	0.405	-0.033	-0.075	0.438	0.418	-0.020	-0.046	0.438	0.432	-0.006	-0.014
Deck																

Appendix 6: Wing Wall Interior - West

Wing Wall Interior UTs taken January 2016. This data was not revised in August 2016.
Shot on a 40' horizontal x 10' vertical grid.

West Wing Wall Interior

< South

feet	10	20	30	40	50	60	70	80	90	100	110	120
Belt	1	2	3	4	5	6	7	8	9	10	11	12
45'		0.496				0.506				0.444		
40'		0.510				0.500				0.440		
30'		0.438				0.394				0.502		
20'		0.408				0.420				0.454		
10'		0.402				0.436				0.454		
Deck												

Appendix 6: Wing Wall Interior - West

West Wing W
< South

feet	130	140	150	160	170	180	190	200	210	220	230	240
Belt	13	14	15	16	17	18	19	20	21	22	23	24
45'		0.446				0.442				0.454		
40'		0.430				0.440				0.442		
30'		0.404				0.390				0.404		
20'		0.456				0.430				0.458		
10'		0.302				0.406				0.404		
Deck												

Appendix 6: Wing Wall Interior - West

West Wing W
< South

feet	250	260	270	280	290	300	310	320	330	340	350	360
Belt	25	26	27	28	29	30	31	32	33	34	35	36
45'		0.440				0.436				0.480		
40'		0.442				0.456				0.506		
30'		0.456				0.380				0.420		
20'		0.400				0.480				0.390		
10'		0.428				0.426				0.400		
Deck												

Appendix 6: Wing Wall Interior - West

West Wing W
< South

feet	370	380	390	400	410	420	430	440	450	460	470	480
Belt	37	38	39	40	41	42	43	44	45	46	47	48
45'		0.516				0.518				0.516		
40'		0.536				0.490				0.486		
30'		0.410				0.440				0.495		
20'		0.396				0.405				0.415		
10'		0.498				0.410				0.440		
Deck												

Appendix 6: Wing Wall Interior - West

West Wing W
< South

feet	490	500	510	520	530	540	550	560	570	580	590	600
Belt	49	50	51	52	53	54	55	56	57	58	59	60
45'		0.524				0.504				0.508		
40'		0.490				0.485				0.520		
30'		0.385				0.445				0.380		
20'		0.380				0.410				0.410		
10'		0.385				0.405				0.410		
Deck												

Appendix 6: Wing Wall Interior - West

West Wing W
< South

feet	610	620	630	640	650	660	670	680	690	700	710	720
Belt	61	62	63	64	65	66	67	68	69	70	71	72
45'		0.520				0.496				0.494		
40'		0.480				0.505				0.404		
30'		0.445				0.385				0.342		
20'		0.345				0.365				0.385		
10'		0.370				0.415				0.390		
Deck												

Appendix 6: Wing Wall Interior - West

West Wing W < South		West Wing Wall Interior						North >	
feet	730	740	750	760	770	780	790	feet	
Belt	73	74	75	76	77	78	79	belt	
45'		0.510				0.500		45'	
40'		0.525				0.545		40'	
30'		0.390				0.415		30'	
20'		0.410				0.435		20'	
10'		0.415				0.405		10'	
Deck								Deck	

Appendix 6 Comparison: Wing Wall Interior - West

< South

Feet	20				60				100				140			
Belt	Built	2	Diff	%	Built	6	Diff	%	Built	10	Diff	%	Built	14	Diff	%
45'	0.500	0.496	-0.004	-0.008	0.500	0.506	0.006	0.012	0.500	0.444	-0.056	-0.112	0.500	0.446	-0.054	-0.108
40'	0.500	0.510	0.010	0.020	0.500	0.500	0.000	0.000	0.500	0.440	-0.060	-0.120	0.500	0.430	-0.070	-0.140
30'	0.438	0.438	0.000	0.000	0.438	0.394	-0.044	-0.100	0.438	0.502	0.064	0.146	0.438	0.404	-0.034	-0.078
20'	0.438	0.408	-0.030	-0.068	0.438	0.420	-0.018	-0.041	0.438	0.454	0.016	0.037	0.438	0.456	0.018	0.041
10'	0.438	0.402	-0.036	-0.082	0.438	0.436	-0.002	-0.005	0.438	0.454	0.016	0.037	0.438	0.302	-0.136	-0.311
Deck																

< South

Feet	180				220				260				300			
Belt	Built	18	Diff	%	Built	22	Diff	%	Built	26	Diff	%	Built	30	Diff	%
45'	0.500	0.442	-0.058	-0.116	0.500	0.454	-0.046	-0.092	0.500	0.440	-0.060	-0.120	0.500	0.436	-0.064	-0.128
40'	0.500	0.440	-0.060	-0.120	0.500	0.442	-0.058	-0.116	0.500	0.442	-0.058	-0.116	0.500	0.456	-0.044	-0.088
30'	0.438	0.390	-0.048	-0.110	0.438	0.404	-0.034	-0.078	0.438	0.456	0.018	0.041	0.438	0.380	-0.058	-0.132
20'	0.438	0.430	-0.008	-0.018	0.438	0.458	0.020	0.046	0.438	0.400	-0.038	-0.087	0.438	0.480	0.042	0.096
10'	0.438	0.406	-0.032	-0.073	0.438	0.404	-0.034	-0.078	0.438	0.428	-0.010	-0.023	0.438	0.426	-0.012	-0.027
Deck																

< South

Feet	340				380				420				460			
Belt	Built	34	Diff	%	Built	38	Diff	%	Built	42	Diff	%	Built	46	Diff	%
45'	0.500	0.480	-0.020	-0.040	0.500	0.516	0.016	0.032	0.500	0.518	0.018	0.036	0.500	0.516	0.016	0.032
40'	0.500	0.506	0.006	0.012	0.500	0.536	0.036	0.072	0.500	0.490	-0.010	-0.020	0.500	0.486	-0.014	-0.028
30'	0.438	0.420	-0.018	-0.041	0.438	0.410	-0.028	-0.064	0.438	0.440	0.002	0.005	0.438	0.495	0.057	0.130
20'	0.438	0.390	-0.048	-0.110	0.438	0.396	-0.042	-0.096	0.438	0.405	-0.033	-0.075	0.438	0.415	-0.023	-0.053
10'	0.438	0.400	-0.038	-0.087	0.438	0.498	0.060	0.137	0.438	0.410	-0.028	-0.064	0.438	0.440	0.002	0.005
Deck																

< South

Feet	500				540				580				620			
Belt	Built	50	Diff	%	Built	54	Diff	%	Built	58	Diff	%	Built	62	Diff	%
45'	0.500	0.524	0.024	0.048	0.500	0.504	0.004	0.008	0.500	0.508	0.008	0.016	0.500	0.520	0.020	0.040
40'	0.500	0.490	-0.010	-0.020	0.500	0.485	-0.015	-0.030	0.500	0.520	0.020	0.040	0.500	0.480	-0.020	-0.040
30'	0.438	0.385	-0.053	-0.121	0.438	0.445	0.007	0.016	0.438	0.380	-0.058	-0.132	0.438	0.445	0.007	0.016
20'	0.438	0.380	-0.058	-0.132	0.438	0.410	-0.028	-0.064	0.438	0.410	-0.028	-0.064	0.438	0.345	-0.093	-0.212
10'	0.438	0.385	-0.053	-0.121	0.438	0.405	-0.033	-0.075	0.438	0.410	-0.028	-0.064	0.438	0.370	-0.068	-0.155
Deck																

< North

Feet	660				700				740				780			
Belt	Built	66	Diff	%	Built	70	Diff	%	Built	74	Diff	%	Built	78	Diff	%
45'	0.500	0.496	-0.004	-0.008	0.500	0.494	-0.006	-0.012	0.500	0.510	0.010	0.020	0.500	0.500	0.000	0.000
40'	0.500	0.505	0.005	0.010	0.500	0.404	-0.096	-0.192	0.500	0.525	0.025	0.050	0.500	0.545	0.045	0.090
30'	0.438	0.385	-0.053	-0.121	0.438	0.342	-0.096	-0.219	0.438	0.390	-0.048	-0.110	0.438	0.415	-0.023	-0.053
20'	0.438	0.365	-0.073	-0.167	0.438	0.385	-0.053	-0.121	0.438	0.410	-0.028	-0.064	0.438	0.435	-0.003	-0.007
10'	0.438	0.415	-0.023	-0.053	0.438	0.390	-0.048	-0.110	0.438	0.415	-0.023	-0.053	0.438	0.405	-0.033	-0.075
Deck																

Appendix 7: Wing Wall Deck - East

Wing Wall Deck UTs taken January 2016. This data was not revised in August 2016. These shots are from the top deck of the wing walls, which are never exposed to water.

Wall Deck East

< South

feet	10	20	30	40	50	60	70	80	90	100	110	120
Belt	1	2	3	4	5	6	7	8	9	10	11	12
5 ft West		0.485				0.510				0.500		
Center		0.530				0.495				0.510		
5 ft East		0.540				0.500				0.500		

Appendix 7: Wing Wall Deck - East

Wall Deck I

< South

feet	130	140	150	160	170	180	190	200	210	220	230	240
Belt	13	14	15	16	17	18	19	20	21	22	23	24
5 ft West		0.370				0.510				0.515		
Center		0.505				0.500				0.502		
5 ft East		0.515				0.495				0.520		

Appendix 7: Wing Wall Deck - East

Wall Deck I

< South

feet	250	260	270	280	290	300	310	320	330	340	350	360
Belt	25	26	27	28	29	30	31	32	33	34	35	36
5 ft West		0.530				0.510				0.524		
Center		0.505				0.506				0.524		
5 ft East		0.515				0.510				0.524		

Appendix 7: Wing Wall Deck - East

Wall Deck I

< South

feet	370	380	390	400	410	420	430	440	450	460	470	480
Belt	37	38	39	40	41	42	43	44	45	46	47	48
5 ft West		0.502				0.518				0.570		
Center		0.506				0.518				0.510		
5 ft East		0.508				0.522				0.514		

Appendix 7: Wing Wall Deck - East

Wall Deck I

< South

feet	490	500	510	520	530	540	550	560	570	580	590	600
Belt	49	50	51	52	53	54	55	56	57	58	59	60
5 ft West		0.512				0.506				0.262		
Center		0.508				0.520				0.516		
5 ft East		0.504				0.520				0.508		

Appendix 7: Wing Wall Deck - East

Wall Deck I

< South

feet	610	620	630	640	650	660	670	680	690	700	710	720
Belt	61	62	63	64	65	66	67	68	69	70	71	72
5 ft West		0.508				0.516				0.528		
Center		0.510				0.512				0.526		
5 ft East		0.510				0.512				0.528		

Appendix 7: Wing Wall Deck - East

Wall Deck West < South	730	740	750	760	770	780	790	Wall Deck East North >
feet	730	740	750	760	770	780	790	feet
Belt	73	74	75	76	77	78	79	belt
5 ft West		0.520				0.504		5 ft West
Center		0.520				0.508		Center
5 ft East		0.510				0.502		5 ft East

Appendix 7 Comparison: Wing Wall Deck - East

South												
East												
feet	Belt		Built	5 ft West	Diff	%	Center	Diff	%	5 ft East	Diff	%
20	2		0.500	0.485	-0.015	-3%	0.530	0.030	6%	0.540	0.040	8%
60	6		0.500	0.510	0.010	2%	0.495	-0.005	-1%	0.500	0.000	0%
100	10		0.500	0.500	0.000	0%	0.510	0.010	2%	0.500	0.000	0%
140	14		0.500	0.370	-0.130	-26%	0.505	0.005	1%	0.515	0.015	3%
180	18		0.500	0.510	0.010	2%	0.500	0.000	0%	0.495	-0.005	-1%
220	22		0.500	0.515	0.015	3%	0.502	0.002	0%	0.520	0.020	4%
260	26		0.500	0.530	0.030	6%	0.505	0.005	1%	0.515	0.015	3%
300	30		0.500	0.510	0.010	2%	0.506	0.006	1%	0.510	0.010	2%
340	34		0.500	0.524	0.024	5%	0.524	0.024	5%	0.524	0.024	5%
380	38		0.500	0.502	0.002	0%	0.506	0.006	1%	0.508	0.008	2%
420	42		0.500	0.518	0.018	4%	0.518	0.018	4%	0.522	0.022	4%
460	46		0.500	0.570	0.070	14%	0.510	0.010	2%	0.514	0.014	3%
500	50		0.500	0.512	0.012	2%	0.508	0.008	2%	0.504	0.004	1%
540	54		0.500	0.506	0.006	1%	0.520	0.020	4%	0.520	0.020	4%
580	58		0.500	0.262	-0.238	-48%	0.516	0.016	3%	0.508	0.008	2%
620	62		0.500	0.508	0.008	2%	0.510	0.010	2%	0.510	0.010	2%
660	66		0.500	0.516	0.016	3%	0.512	0.012	2%	0.512	0.012	2%
700	70		0.500	0.528	0.028	6%	0.526	0.026	5%	0.528	0.028	6%
740	74		0.500	0.520	0.020	4%	0.520	0.020	4%	0.510	0.010	2%
780	78		0.500	0.504	0.004	1%	0.508	0.008	2%	0.502	0.002	0%
North												

Appendix 8: Wing Wall Deck - West

Wing Wall Deck UTs taken January 2016. This data was not revised in August 2016. These shots are from the top deck of the wing walls, which are never exposed to water.

Wall Deck West

< South

feet	10	20	30	40	50	60	70	80	90	100	110	120
Belt	1	2	3	4	5	6	7	8	9	10	11	12
5 ft West		0.358				0.390				0.352		
Center		0.354				0.522				n/a		
5 ft East		0.354				0.350				0.358		

Appendix 8: Wing Wall Deck - West

Wall Deck \

< South

feet	130	140	150	160	170	180	190	200	210	220	230	240
Belt	13	14	15	16	17	18	19	20	21	22	23	24
5 ft West		0.348				0.512				0.354		
Center		0.348				0.358				0.358		
5 ft East		0.522				0.518				0.522		

Appendix 8: Wing Wall Deck - West

Wall Deck \

< South

feet	250	260	270	280	290	300	310	320	330	340	350	360
Belt	25	26	27	28	29	30	31	32	33	34	35	36
5 ft West		0.358				0.520				0.350		
Center		0.516				0.288				n/a		
5 ft East		0.522				0.354				0.510		

Appendix 8: Wing Wall Deck - West

Wall Deck \

< South

feet	370	380	390	400	410	420	430	440	450	460	470	480
Belt	37	38	39	40	41	42	43	44	45	46	47	48
5 ft West		0.522				0.502				n/a		
Center		0.512				0.504				0.354		
5 ft East		0.518				0.522				0.512		

Appendix 8: Wing Wall Deck - West

Wall Deck \

< South

feet	490	500	510	520	530	540	550	560	570	580	590	600
Belt	49	50	51	52	53	54	55	56	57	58	59	60
5 ft West		0.510				0.518				0.534		
Center		0.504				0.514				0.500		
5 ft East		0.522				0.512				0.302		

Appendix 8: Wing Wall Deck - West

Wall Deck \

< South

feet	610	620	630	640	650	660	670	680	690	700	710	720
Belt	61	62	63	64	65	66	67	68	69	70	71	72
5 ft West		0.512				0.520				0.506		
Center		0.504				0.510				0.518		
5 ft East		0.508				0.516				0.416		

Appendix 8: Wing Wall Deck - West

Wall Deck \ < South	730	740	750	760	770	780	790	Wall Deck West North >
feet	730	740	750	760	770	780	790	feet
Belt	73	74	75	76	77	78	79	belt
5 ft West		0.506				2.200		5 ft Wes
Center		0.516				0.516		Center
5 ft East		0.524				0.530		5 ft East

Appendix 8 Comparison: Wing Wall Deck - West

South												
West												
feet	Belt		Built	5 ft West	Diff	%	Center	Diff	%	5 ft East	Diff	%
20	2		0.500	0.358	-0.142	-28%	0.354	-0.146	-29%	0.354	-0.146	-29%
60	6		0.500	0.390	-0.110	-22%	0.522	0.022	4%	0.350	-0.150	-30%
100	10		0.500	0.352	-0.148	-30%	n/a	#####	#VALUE!	0.358	-0.142	-28%
140	14		0.500	0.348	-0.152	-30%	0.348	-0.152	-30%	0.522	0.022	4%
180	18		0.500	0.512	0.012	2%	0.358	-0.142	-28%	0.518	0.018	4%
220	22		0.500	0.354	-0.146	-29%	0.358	-0.142	-28%	0.522	0.022	4%
260	26		0.500	0.358	-0.142	-28%	0.516	0.016	3%	0.522	0.022	4%
300	30		0.500	0.520	0.020	4%	0.288	-0.212	-42%	0.354	-0.146	-29%
340	34		0.500	0.350	-0.150	-30%	n/a	#####	#VALUE!	0.510	0.010	2%
380	38		0.500	0.522	0.022	4%	0.512	0.012	2%	0.518	0.018	4%
420	42		0.500	0.502	0.002	0%	0.504	0.004	1%	0.522	0.022	4%
460	46		0.500	n/a	#####	#VALUE!	0.354	-0.146	-29%	0.512	0.012	2%
500	50		0.500	0.510	0.010	2%	0.504	0.004	1%	0.522	0.022	4%
540	54		0.500	0.518	0.018	4%	0.514	0.014	3%	0.512	0.012	2%
580	58		0.500	0.534	0.034	7%	0.500	0.000	0%	0.302	-0.198	-40%
620	62		0.500	0.512	0.012	2%	0.504	0.004	1%	0.508	0.008	2%
660	66		0.500	0.520	0.020	4%	0.510	0.010	2%	0.516	0.016	3%
700	70		0.500	0.506	0.006	1%	0.518	0.018	4%	0.416	-0.084	-17%
740	74		0.500	0.506	0.006	1%	0.516	0.016	3%	0.524	0.024	5%
780	78		0.500	2.200	1.700	340%	0.516	0.016	3%	0.530	0.030	6%
North												

Appendix 9: Safety Deck - East

Safety Deck UTs taken January 2016. This data was not revised in August 2016.
 The safety deck is the top of the wing wall ballast tanks, just below the wing wall deck.
 Shots are taken from the top side (the dry side) of the safety deck.

Safety Deck East

< South

feet	10	20	30	40	50	60	70	80	90	100	110	120
Belt	1	2	3	4	5	6	7	8	9	10	11	12
5 ft West		0.280				0.380				0.390		
Center		0.398				0.388				0.388		
5 ft East		0.370				0.394				0.387		

Appendix 9: Safety Deck - East

Safety Deck

< South

feet	130	140	150	160	170	180	190	200	210	220	230	240
Belt	13	14	15	16	17	18	19	20	21	22	23	24
5 ft West		0.385				0.375				0.365		
Center		0.382				0.420				0.365		
5 ft East		0.340				0.376				0.366		

Appendix 9: Safety Deck - East

Safety Deck

< South

feet	250	260	270	280	290	300	310	320	330	340	350	360
Belt	25	26	27	28	29	30	31	32	33	34	35	36
5 ft West		0.380				0.385				0.380		
Center		0.380				0.385				0.370		
5 ft East		0.376				0.372				0.386		

Appendix 9: Safety Deck - East

Safety Deck

< South

feet	370	380	390	400	410	420	430	440	450	460	470	480
Belt	37	38	39	40	41	42	43	44	45	46	47	48
5 ft West		0.390				0.390				0.400		
Center		0.385				0.392				0.398		
5 ft East		0.376				0.372				0.398		

Appendix 9: Safety Deck - East

Safety Deck

< South

feet	490	500	510	520	530	540	550	560	570	580	590	600
Belt	49	50	51	52	53	54	55	56	57	58	59	60
5 ft West		0.395				0.405				0.395		
Center		0.360				0.286				0.376		
5 ft East		0.386				0.398				0.378		

Appendix 9: Safety Deck - East

Safety Deck

< South

feet	610	620	630	640	650	660	670	680	690	700	710	720
Belt	61	62	63	64	65	66	67	68	69	70	71	72
5 ft West		0.385				0.395				0.390		
Center		0.376				0.386				0.440		
5 ft East		0.385				0.388				0.390		

Appendix 9: Safety Deck - East

Safety Deck								Safety Deck East		
< South								North >		
feet	730	740	750	760	770	780	790	feet		
Belt	73	74	75	76	77	78	79	belt		
5 ft West		0.415				0.354		5 ft West		
Center		0.384				0.388		Center		
5 ft East		0.400				0.376		5 ft East		

Appendix 9 Comparison: Safety Deck - East

South													
East													
feet	Belt		Built	5 ft West	Diff	%	Center	Diff	%	5 ft East	Diff	%	
20	2		0.375	0.280	-0.095	-0.253	0.398	0.023	0.061	0.370	-0.005	-0.013	
60	6		0.375	0.380	0.005	0.013	0.388	0.013	0.035	0.394	0.019	0.051	
100	10		0.375	0.390	0.015	0.040	0.388	0.013	0.035	0.387	0.012	0.032	
140	14		0.375	0.385	0.010	0.027	0.382	0.007	0.019	0.340	-0.035	-0.093	
180	18		0.375	0.375	0.000	0.000	0.420	0.045	0.120	0.376	0.001	0.003	
220	22		0.375	0.365	-0.010	-0.027	0.365	-0.010	-0.027	0.366	-0.009	-0.024	
260	26		0.375	0.380	0.005	0.013	0.380	0.005	0.013	0.376	0.001	0.003	
300	30		0.375	0.385	0.010	0.027	0.385	0.010	0.027	0.372	-0.003	-0.008	
340	34		0.375	0.380	0.005	0.013	0.370	-0.005	-0.013	0.386	0.011	0.029	
380	38		0.375	0.390	0.015	0.040	0.385	0.010	0.027	0.376	0.001	0.003	
420	42		0.375	0.390	0.015	0.040	0.392	0.017	0.045	0.372	-0.003	-0.008	
460	46		0.375	0.400	0.025	0.067	0.398	0.023	0.061	0.398	0.023	0.061	
500	50		0.375	0.395	0.020	0.053	0.360	-0.015	-0.040	0.386	0.011	0.029	
540	54		0.375	0.405	0.030	0.080	0.286	-0.089	-0.237	0.398	0.023	0.061	
580	58		0.375	0.395	0.020	0.053	0.376	0.001	0.003	0.378	0.003	0.008	
620	62		0.375	0.385	0.010	0.027	0.376	0.001	0.003	0.385	0.010	0.027	
660	66		0.375	0.395	0.020	0.053	0.386	0.011	0.029	0.388	0.013	0.035	
700	70		0.375	0.390	0.015	0.040	0.440	0.065	0.173	0.390	0.015	0.040	
740	74		0.375	0.415	0.040	0.107	0.384	0.009	0.024	0.400	0.025	0.067	
780	78		0.375	0.354	-0.021	-0.056	0.388	0.013	0.035	0.376	0.001	0.003	
North													

Appendix 10: Safety Deck - West

Safety Deck UTs taken January 2016. This data was not revised in August 2016.
 The safety deck is the top of the wing wall ballast tanks, just below the wing wall deck.
 Shots are taken from the top side (the dry side) of the safety deck.

Safety Deck West

< South

feet	10	20	30	40	50	60	70	80	90	100	110	120
Belt	1	2	3	4	5	6	7	8	9	10	11	12
5 ft West		0.380				0.390				0.375		
Center		0.375				0.380				0.370		
5 ft East		0.375				0.390				0.375		

Appendix 10: Safety Deck - West

Safety Deck

< South

feet	130	140	150	160	170	180	190	200	210	220	230	240
Belt	13	14	15	16	17	18	19	20	21	22	23	24
5 ft West		0.385				0.380				0.380		
Center		0.380				0.375				0.370		
5 ft East		0.380				0.380				0.390		

Appendix 10: Safety Deck - West

Safety Deck

< South

feet	250	260	270	280	290	300	310	320	330	340	350	360
Belt	25	26	27	28	29	30	31	32	33	34	35	36
5 ft West		0.395				0.380				0.400		
Center		0.390				0.375				0.390		
5 ft East		0.385				0.380				0.390		

Appendix 10: Safety Deck - West

Safety Deck

< South

feet	370	380	390	400	410	420	430	440	450	460	470	480
Belt	37	38	39	40	41	42	43	44	45	46	47	48
5 ft West		0.375				0.375				0.400		
Center		0.380				0.400				0.390		
5 ft East		0.385				0.410				0.400		

Appendix 10: Safety Deck - West

Safety Deck

< South

feet	490	500	510	520	530	540	550	560	570	580	590	600
Belt	49	50	51	52	53	54	55	56	57	58	59	60
5 ft West		0.400				0.395				0.400		
Center		0.395				0.385				0.395		
5 ft East		0.400				0.390				0.390		

Appendix 10: Safety Deck - West

Safety Deck

< South

feet	610	620	630	640	650	660	670	680	690	700	710	720
Belt	61	62	63	64	65	66	67	68	69	70	71	72
5 ft West		0.375				0.400				0.395		
Center		0.375				0.390				0.390		
5 ft East		0.380				0.395				0.390		

Appendix 10: Safety Deck - West

Safety Deck < South				Safety Deck West North >				
feet	730	740	750	760	770	780	790	feet
Belt	73	74	75	76	77	78	79	belt
5 ft West		0.385				0.385		5 ft West
Center		0.400				0.380		Center
5 ft East		0.400				0.390		5 ft East

Appendix 10 Comparison: Safety Deck - West

South												
West												
feet	Belt		Built	5 ft West	Diff	%	Center	Diff	%	5 ft East	Diff	%
20	2		0.375	0.380	0.005	0.013	0.375	0.000	0.000	0.375	0.000	0.000
60	6		0.375	0.390	0.015	0.040	0.380	0.005	0.013	0.390	0.015	0.040
100	10		0.375	0.375	0.000	0.000	0.370	-0.005	-0.013	0.375	0.000	0.000
140	14		0.375	0.385	0.010	0.027	0.380	0.005	0.013	0.380	0.005	0.013
180	18		0.375	0.380	0.005	0.013	0.375	0.000	0.000	0.380	0.005	0.013
220	22		0.375	0.380	0.005	0.013	0.370	-0.005	-0.013	0.390	0.015	0.040
260	26		0.375	0.395	0.020	0.053	0.390	0.015	0.040	0.385	0.010	0.027
300	30		0.375	0.380	0.005	0.013	0.375	0.000	0.000	0.380	0.005	0.013
340	34		0.375	0.400	0.025	0.067	0.390	0.015	0.040	0.390	0.015	0.040
380	38		0.375	0.375	0.000	0.000	0.380	0.005	0.013	0.385	0.010	0.027
420	42		0.375	0.375	0.000	0.000	0.400	0.025	0.067	0.410	0.035	0.093
460	46		0.375	0.400	0.025	0.067	0.390	0.015	0.040	0.400	0.025	0.067
500	50		0.375	0.400	0.025	0.067	0.395	0.020	0.053	0.400	0.025	0.067
540	54		0.375	0.395	0.020	0.053	0.385	0.010	0.027	0.390	0.015	0.040
580	58		0.375	0.400	0.025	0.067	0.395	0.020	0.053	0.390	0.015	0.040
620	62		0.375	0.375	0.000	0.000	0.375	0.000	0.000	0.380	0.005	0.013
660	66		0.375	0.400	0.025	0.067	0.390	0.015	0.040	0.395	0.020	0.053
700	70		0.375	0.395	0.020	0.053	0.390	0.015	0.040	0.390	0.015	0.040
740	74		0.375	0.385	0.010	0.027	0.400	0.025	0.067	0.400	0.025	0.067
780	78		0.375	0.385	0.010	0.027	0.380	0.005	0.013	0.390	0.015	0.040
North												



Certificate Number: 16-SC3125159-X

ABS Port Office: San Diego, CA

Effective Date: 03 May 2016

Service Provider's Address: 1706 Hoover Ave., National City, CA 91950

Service Provider's Website www.cwdiving.com

Unless cancelled earlier, this certificate expires on 02 May 2019

For particulars regarding this recognition, see the ABS web site: www.eagle.org

Certificate of Service Recognition

This is to Certify that

C & W Diving Services, Inc.

having been audited by ABS and having given a satisfactory practical demonstration of the service listed below, is recognized by ABS as a Service Provider to provide services which ABS Surveyors may rely on to make decisions affecting classification or statutory surveys.

In Water Survey

It is the responsibility of the Service Provider to employ, train and qualify persons in the service provided. If the service requires approval from manufacturers, the service provider is responsible to maintain contact with the manufacturer and maintain any service manuals up to date. The employees who will conduct the servicing are to have photo identification and, if allowed, be listed on the company's web site (noted above). The products and models allowed to be serviced are to be listed on the company's web site. The ABS office issuing this certificate to be kept updated with changes to the management of the company, its employees, products and models on the list and any changes made.

Note: Please refer to the ABS web site; www.eagle.org for any comments regarding the services provided.

Darren Hopper, Surveyor



CYGNUS
INSTRUMENTS



RINA

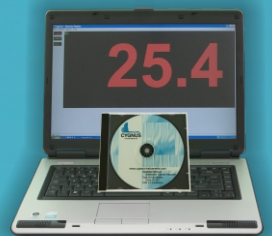
— Type Approved —



**ORIGINAL
Underwater
Gauge**

CYGNUS 1
UNDERWATER
IMMERSIBLE TO 300 METRES
PRESSURE MEMBRANE IS
FITTED TO TRANSDUCER
ALL 'O' RINGS MUST BE
FITTED AND CHANGED
AFTER EACH DIVE
CYGNUS INSTRUMENTS
BORCHESTER ENGLAND

Topside Repeater
Option A Option B



Cygnus Underwater

**DIVER-HELD MULTIPLE ECHO
ULTRASONIC DIGITAL THICKNESS GAUGE**

Measures metal thickness to determine wastage or corrosion accurately, quickly and without removing protective coatings

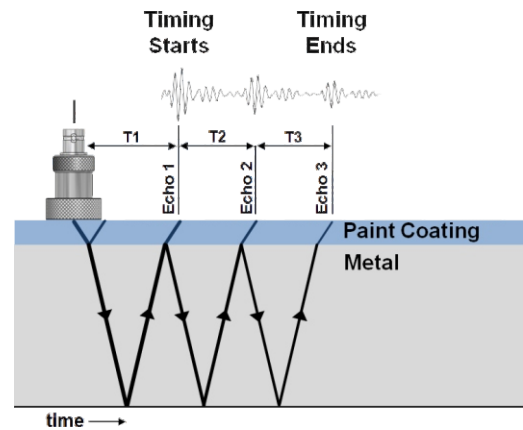


Features

- RINA approved (Certificate No. 2009DGPO787)
- Auto - Probe Recognition (APR)
- "Deep-Coat" mode for measuring through coatings up to 20 mm (3/4") thick
- Easy calibration using convenient buttons
- Rugged, durable, shock-proof construction
- Stable calibration - linear accuracy - no zero adjustment
- Large bright LED display for poor visibility
- Pressure rated to 300 m (1,000 ft) depth
- Heavy duty sealed unit with double 'O' ring protection
- Self verification of measurements to ensure accuracy
- Echo strength indicator to aid measurement
- All probes are protected by a membrane to prevent damage
- Various probe options
- Two rechargeable battery packs with charger
- Fixed head probe option for single handed use.

Benefits of Cygnus Multiple Echo

- Measures remaining metal thickness on corroded and coated structures
- All measurements are error checked using 3 return echoes to give repeatable, reliable results
- Accepted by all major classification societies
- Greatly reduces inspection time and costs
- Echo strength indicator to aid measurement.



With multiple echo, readings are taken by measuring the time delay between any three consecutive backwall echos. The time of T1 (coating thickness) is ignored. The times of T2 and T3 are equal to the time that it takes to travel through the metal. Only by looking at three echos can the measurements be automatically verified (where $T2 = T3$).

Kit Contents

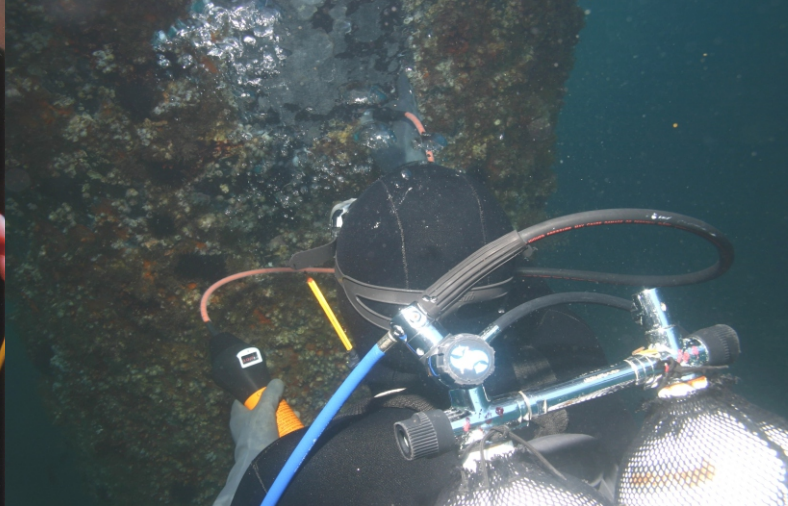
Instrument, heavy duty remote 2.25 MHz 13 mm (1/2") diameter probe, nose cone tommy bar, probe locking ring key, 2 rechargeable batteries and battery charger, spare membranes and 'O' rings, steel test block, lanyard, operation manual, pressure test and calibration certificates, Molykote grease and carry case.



RINA

— Type Approved —





Applications

Maintenance and safety checks of metal thickness for:

- Ships hulls
- Semi sub structures
- Anchor chains
- Subsea pipelines
- Offshore structures, jackets
- Storage vessels, FPSO's
- Dock gates, piers, jetties and pipings.

...plus many more.

Surface / Topside Display Options

Upgrade Kit A - This Topside Display Option is a hand held surface repeater. It has a large LCD display in an Ip65 sealed housing.

Upgrade Kit B - This uses CygLink (Windows based software) installed on a computer. This displays real-time readings which can then be logged.

Unbiblical cable length is specified by the customer up to a maximum of 1000 metres (3,280ft)



Upgrade Kit A



Upgrade Kit B

Specifications

Materials	Sound velocities between 2000 m/s and 7000 m/s (0.059 and 0.31 in/microsec) - covers virtually all common engineering materials
Measurement Range in Steel	3 mm - 250 mm (0.110" - 9.995") with 2.25 MHz probe 2 mm - 150 mm (0.065" - 6.000") with 3.5 MHz probe 1 mm - 50 mm (0.045" - 4.000") with 5.0 MHz probe
Accuracy	0.1 mm (0.005") when calibrated in accordance with Cygnus Instruments Calibration Procedures
Resolution	0.1 mm or 0.05 mm (selectable) (0.005" or 0.002")
Probes	Remote single crystal soft-faced compression 6 mm (1/4") - 5 MHz 13 mm (1/2") - 2.25, 3.5 or 5 MHz 19 mm (3/4") - 2.25 MHz (Lower frequency probes offer better penetration on heavy corrosion/coatings)
Power	NiMH rechargeable battery pack
Battery Life	30 hours' (continuous measuring)
Display	Large, bright LED display
Size	235 mm x 75 mm (8 3/8" x 3")
Weight	950 g (2.1 lbs) - with remote probe 860 g (30.3 oz) - with fixed head probe
Operating Temp.	-10°C to +50°C (14°F to 122°F)
Environmental Protection	IPX8 continuous 300 m (984 ft) rating
Compliance	CE, British Standard BS EN 15317:2013 (Specification for the characterisation and verification of ultrasonic thickness measuring equipment)
Environmental	RoHS, WEEE compliant
Warranty	3 years on gauge, 6 months on probe

*Specifications are subject to change for product improvement

Cygnus Thickness Gauges



Intrinsically Safe



Cygnus 6+ Pro



Cygnus 4 General Purpose



Cygnus 2+ Hands-free



Heavy Duty



DIVE
(Underwater A-Scan)



Mini ROV Mountable



ROV Mountable

For more products, please visit www.cygnus-instruments.com



CB06UK ISS 4