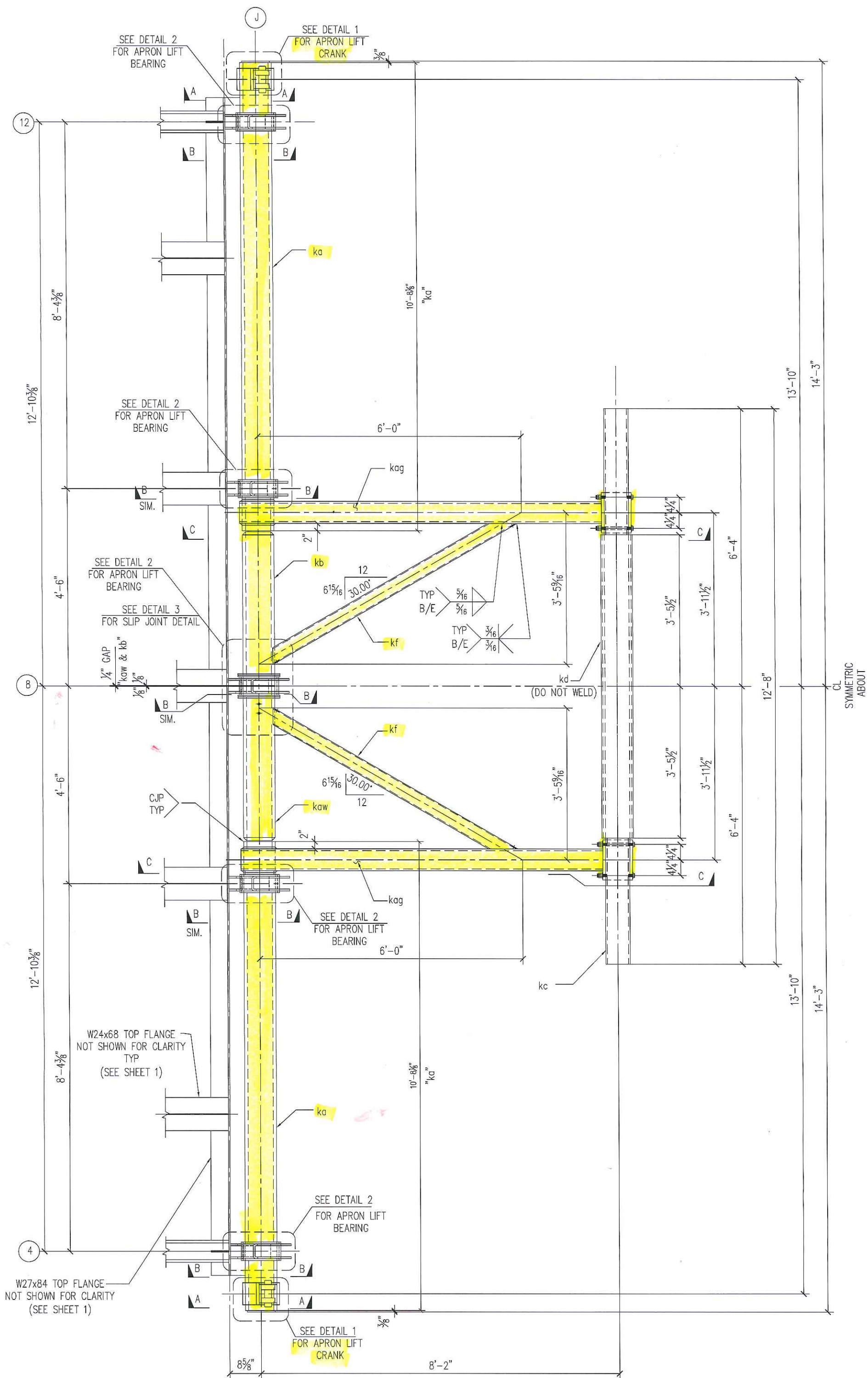
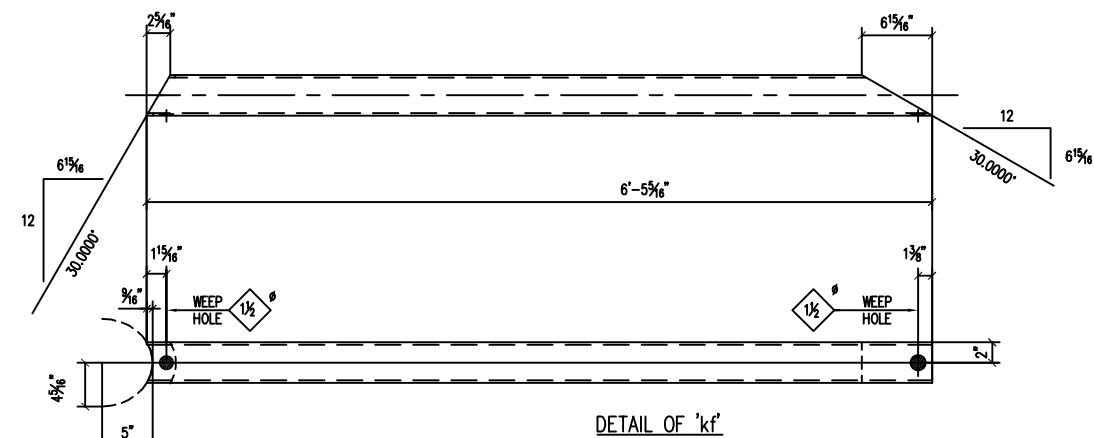
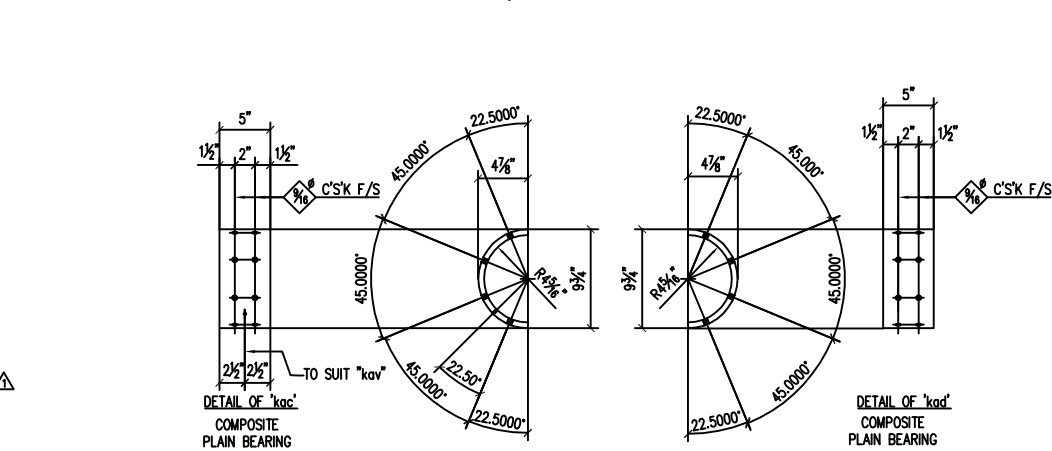
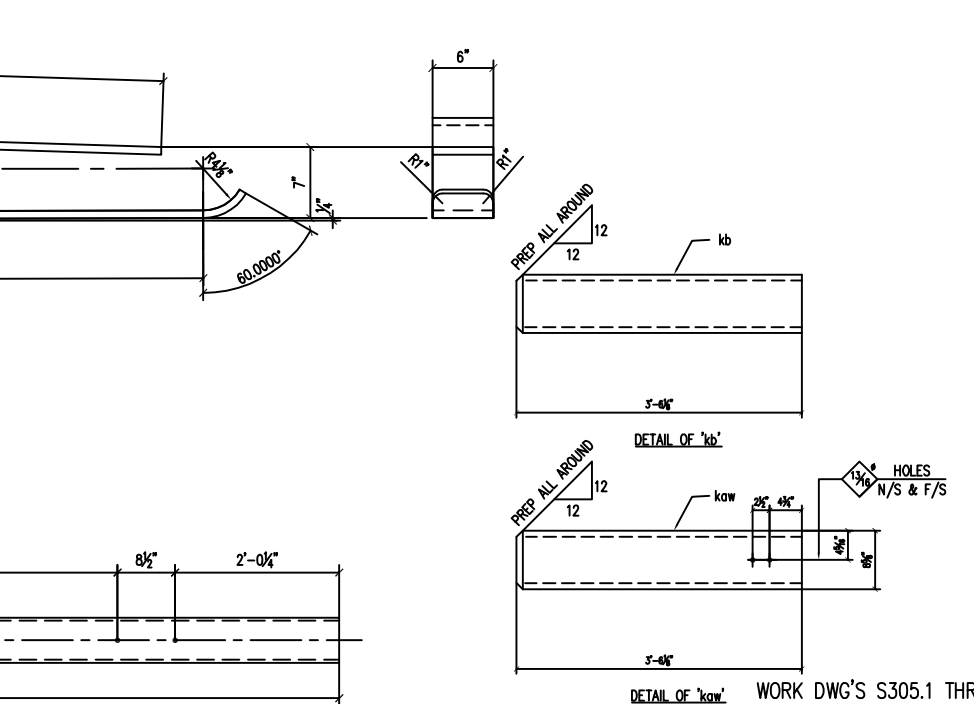
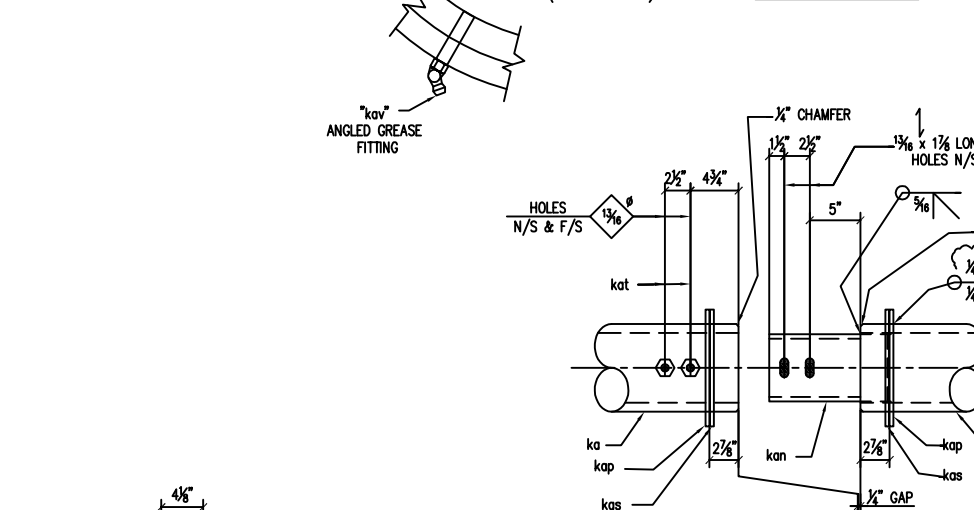
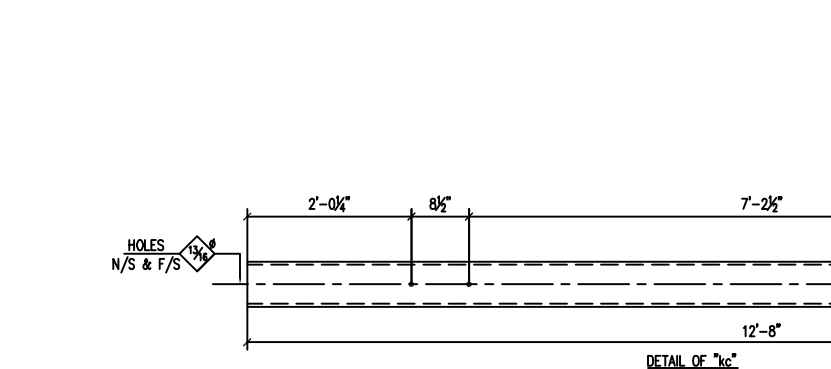
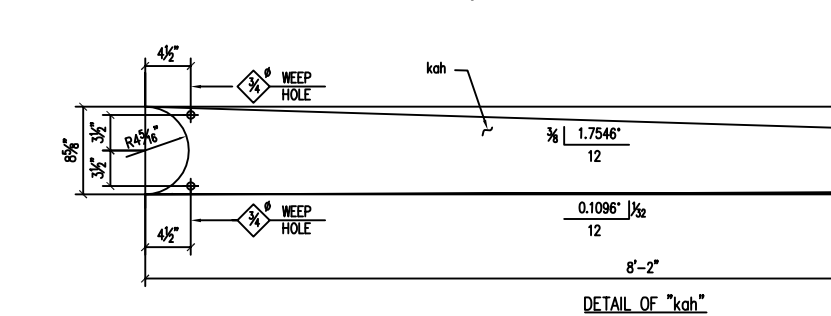
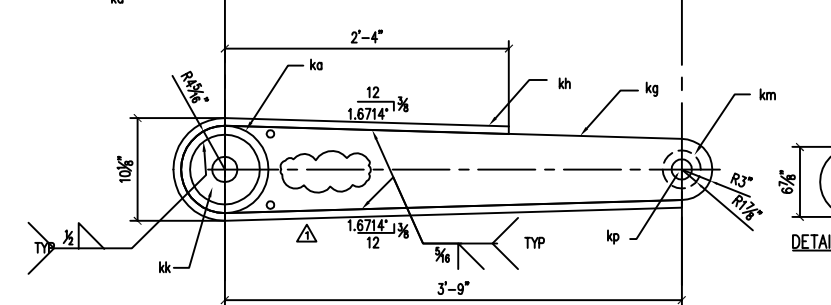




APRON LIFT ASSEMBLY



APRON LIFT ASSEMBLY



SHOP NOTES:

- PROVIDE VENT HOLES AS REQ'D.
- SEAL ALL WELDS
- GRIND SMOOTH ALL BURRS AND SHARP EDGES.

"BUY AMERICA CONTRACT"



	REV'D TO APP'L COMMENTS (9/9/10)		W/L/R/P	9/22/10	
	APPROVAL ISSUE	-	-	-	
No.	REVISIONS		BY	DATE	
CERT. WELDERS	AWS D1.1 & D1.5 INSPECTION VISUAL		JOB		
OPEN HOLES	AS NOTED [] EXCEPT AS NOTED		ANGOON FERRY TERMINAL IMPROVEMENT		
PAIN'T	GALVANIZED (SPRAY APPLIED PER MFG. RECOMMENDATION)		TITLE	RAMP FRAMING (APRON LIFT ASSEMBLY)	
			FOR	-	
			DRAWN	NAME	DATE
			CHK'D	NA	7/08/10
				PG	7/23/10
			APP'D		
			S'CAL'E	NONE	
CAD FILE NO.: 200060305			JOB NO.	2000630	
			DWG NO.	S305.19	
			REVISION		
			1		

WORK DWG'S S305.1 THRU S305.32 TOGETHER
REF DWGS 28 THRU 32 OF 61

B I L L O F M A T E R I A L										
NO. TO SHIP	SHIPPING MARK	MATL.	NO. PCS.	PIECE MARK	SECTION	LENGTH		REMARKS	WEIGHT EACH	TOTAL WEIGHT
						FEET	IN'S			
			1	yd	RAMP TRANSITION PLATE					
		A709 Gr36	2	yf	PL 3/4 x 12 1/2	20	0	NON SKID		
			6	yg	1/2" GREASE FITTING	5	10 1/2	NON SKID		
		A709 Gr36	6	yh	PL 2 x 5	1	0 1/2			
			4	yk	2 1/2" STD. PIPE	0	6			
		A709 Gr36	4	ym	PL 3/4 x 3	0	3 3/4	BENT HINGE		
					RAMP SUPPORT HINGE					
			20	yg	1/2" GREASE FITTING					
		A709 Gr36	10	yn	PL 1" x 6	0	6 3/4			
		A709 Gr36	5	yp	PL 2 x 6	0	6 3/4			
		A709 Gr36	10	ys	PL 2 x 6	0	6 3/4			
		A709 Gr36	5	yt	PL 1/2 x 7	0	7 1/2			
		A709 Gr36	5	yv	PL 1/2 x 7	0	9 1/2			
			5	yw	1 1/4" BOLT	1	0	3 3/4" THREAD LENGTH W/ NUT, WASH. & JAM		
					APRON LIFT ASSEMBLY					
			2	ka	8" XXS PIPE	10	8 1/2	CS2E, API 5L-X42	PSL1	
			1	kb	8" XXS PIPE	3	6 1/2	P1E, API 5L-X42	PSL1	
			1	kc	8" XS PIPE	12	8			
			1	kd	8" HDPE PIPE DR 11	6	11			
			2	kf	HSS 4 x 4 x 1/4	6	5 1/4			
		A709 Gr36	4	kg	PL 1/2 x 8 1/2	4	0			
		A709 Gr36	2	kh	PL 3/4 x 6	7	3 3/4	ROLL		
		A709 Gr36	4	kk	PL 3/4 x 6 7/8	-	-			
		A709 Gr36	4	km	PL 1 1/8 x 3 3/4	-	-			
		A709 Gr36	2	kn	PL 3/4 x 7 3/8	-	-			
		ASTM A276	2	kp	1 1/4" PIN DUPLEX 2205 -UNS31803	0	8	W/ 1/4" SS COTTER PINS		
			5	ks	HSS 20 x 4 x 1/2	2	3 3/4	CUT TO HSS 10 1/2 x 4		
			5	kt	HSS 20 x 4 x 1/2	1	4 1/2	CUT TO HSS 8 1/2 x 4		
		A709 Gr36	5	kv	PL 3/4 x 3	0	11 1/2	ROLL		
			10	kx	7/8" BOLT W/ NUT	0	2 1/2			
			5	koa	10" XS PIPE	0	5	CUT TO HALF DIA.		
			5	kob	10" XS PIPE	0	5	CUT TO HALF DIA.		
			5	koc	3/4" THK. COMPOSITE PLAIN BEARING	0	5			
			5	kod	3/4" THK. COMPOSITE PLAIN BEARING	0	5			
			80	kof	1/2 SS HEX SOCKET FLAT HEAD SCREW	0	1"			
		A709 Gr36	2	kog	PL 3/4 x 6	17	7 3/4	BENT		
		A709 Gr36	4	koh	PL 1/2 x 8 1/2	8	2			
		A709 Gr36	2	kok	PL 3/4 x 11	1	5	BENT		
			4	kam	3/4" BOLT	0	10	W/ NUT & NUT JAM		
			1	kam	6" XS PIPE	1	0			
		A709 Gr36	2	kop	PL 3/4 x 11 1/2	-	-			
			2	kos	PL 3/4 x 11 1/2" COMPOSITE THRUST WASHER	-	-			
			2	kot	3/4" THRU BOLT	0	10	W/ NUT & WASH. ANGLED		
			5	kav	1/2" GREASE FITTING	3	6 1/2	P1E, API 5L-X42	PSL1	
			1	kaw	8" XXS PIPE					
ONE	FA				FENCE SUB-ASSEMBLY					
			3	ma	2" STD. PIPE POST	7	2			
			3	mb	POST CAP FOR 2" PIPE	-	-			
			4	mc	1 1/4" STD. PIPE	6	0 (LIN. FT.)	CUT TO SUIT		
			1	md	6' HIGH - 9GA. GALV. FENCE FABRIC	10	0 (LIN. FT.)	CUT TO SUIT		
			1	mf	7 GA. TENSION WIRE	11	0 (LIN. FT.)	CUT TO SUIT		
			4	mg	TENSION BAR	6	0 (LIN. FT.)	CUT TO SUIT		
			8	mh	RAIL END CAP	-	-			
			10	mk	BRACE BAND w/ 3/4" BOLT & NUT	-	-			
			22	mm	TENSION BAND w/ 3/4" BOLT & NUT	-	-			
			2	mn	TENSIONING ROD	6	0 (LIN. FT.)	CUT TO SUIT		
			1	mp	TURNBUCKLE	-	-			
			2	ms	EYE END FITTING	-	-			
ONE	FB				FENCE SUB-ASSEMBLY					
			2	mt	1 1/4" STD. PIPE	4	6 (LIN. FT.)	CUT TO SUIT		
			1	md	6' HIGH - 9GA. GALV. FENCE FABRIC	5	0 (LIN. FT.)	CUT TO SUIT		
			1	mf	7 GA. TENSION WIRE	5	0 (LIN. FT.)	CUT TO SUIT		
			2	mg	TENSION BAR	6	0 (LIN. FT.)	CUT TO SUIT		
			4	mh	RAIL END CAP	-	-			
			2	ta	TENSIONING ROD	5	0 (LIN. FT.)	CUT TO SUIT		
			1	mp	TURNBUCKLE	-	-			
			2	ms	EYE END FITTING	-	-			
ONE	FC				FENCE SUB-ASSEMBLY					
			4	ma	2" STD. PIPE POST	7	2			
			4	mb	POST CAP FOR 2" PIPE	-	-			
			4	tb	1 1/4" STD. PIPE	8	3 (LIN. FT.)	CUT TO SUIT		
			1	md	6' HIGH - 9GA. GALV. FENCE FABRIC	21	0 (LIN. FT.)	CUT TO SUIT		
			1	mf	7 GA. TENSION WIRE	25	0 (LIN. FT.)	CUT TO SUIT		
			6	mg	TENSION BAR	6	0 (LIN. FT.)	CUT TO SUIT		
			12	mh	RAIL END CAP	-	-			
			14	mk	BRACE BAND w/ 3/4" BOLT & NUT	-	-			
			31	mm	TENSION BAND w/ 3/4" BOLT & NUT	-	-			
			2	tc	TENSIONING ROD	8	0 (LIN. FT.)	CUT TO SUIT		
			1	mp	TURNBUCKLE	-	-			
			3	ms	EYE END FITTING	-	-			
			2	mv	1 1/4" STD. PIPE	5	0 (LIN. FT.)	CUT TO SUIT		
			1	mw	TENSIONING ROD	5	0 (LIN. FT.)	CUT TO SUIT		
					CONTINUED ON SHEET 32					

PLEASE VERIFY PLATE SIZE TO MATCH TRUNNION

HOLD! APPROVER WAITING TO REVIEW RACO SHOP DWGS

APPROVER PLEASE VERIFY PLATE SIZE

APPROVER PLEASE VERIFY PLATE SIZE

BOLT LENGTH AND SIZE TO SUIT LATCH

B I L L O F M A T E R I A L										
NO. TO SHIP	SHIPPING MARK	MATL.	NO. POS.	PIECE MARK	SECTION	LENGTH		REMARKS	WEIGHT EACH	TOTAL WEIGHT
						FEET	IN'S			
		A709 Gr36	2	fa	PL 1/2 x 5 1/2	0	7 1/2	(S305.8)	-	-
			16	fb	1" XS PIPE	0	5 1/2	-	-	-
		A709 Gr36	2	fc	PL 3/4 x 10	0	10	(S305.8)	-	-
		A709 Gr36	9	fd	PL 3/4 x 3 3/4	0	7	FITTED, (S305.8)	-	-
		A709 Gr36	2	ff	PL 3/4 x 7	1	2 1/4	-	-	-
		A709 Gr36	2	fg	PL 3/4 x 7 1/4	1	0 1/2	(S305.8)	-	-
		A709 Gr36	2	fh	PL 3/4 x 4 1/2	2	1 1/2	(S305.8)	-	-
			2	fk	UHMW-PE PAD 1 1/2 x 8	1	0	BLACK, (S305.8)	-	-
			2	fm	UHMW-PE PAD 1 1/2 x 8	7	10	BLACK, (S305.8)	-	-
			5	fn	ELASTOMERIC PAD 1 1/2 x 12	1	4	50 DURO	-	-
			1	fp	ELASTOMERIC PAD 3/4" THK	100	SQ FT	SEE NOTE 1 ON S305.2	-	-
			2	fs	3/4" SS PIN	0	10	c/w 1/4" COTTER PINS	-	-
					SS duplex 2205 (ASTM A276 UNS31803)					
		A709 Gr50	3	ft	GRATING 5 1/2 x 92	20	0	BY GRATING MANUF	-	-
		A709 Gr50	1	fv	GRATING 5 1/2 x 47	20	0	BY GRATING MANUF	-	-
			8	fw	GRATING 1 1/2 x 24 c/w CLIPS	5	6	BY GRATING MANUF	-	-
					1 1/2" SERR.BARS @ 1/4" CTRS					
			16	fy	2 1/2" STD PIPE	0	11	-	-	-
		A709 Gr36	24	ga	PL 3/4 x 3	0	3	(S305.8)	-	-
		A709 Gr36	5	gb	PL 3/4 x 3 3/4	0	7	FITTED, (S305.8)	-	-
			24	ba	3/4" A325 BOLT	0	2 1/2	C/W DTI	-	-
			10	bb	3/4" A325 BOLT	0	5 1/4	-	-	-
			14	bc	3/4" A325 BOLT	0	3 1/4	-	-	-
			32	bd	3/4" A325 BOLT	0	2 1/4	-	-	-
			30	bf	3/4" A325 BOLT	0	2 1/4	-	-	-
			154	bg	3/4" A325 BOLT	0	2 1/4	-	-	-
			80	bh	3/4" A325 BOLT	0	2	-	-	-
			16	bk	3/4" A325 BOLT	0	8 3/4	-	-	-
			32	bm	1/2" A325 BOLT	0	4	-	-	-
			40	bn	1/2" A325 BOLT	0	1 1/4	-	-	-
			24	bp	3/4" BEVEL WASHER	-	-	-	-	-
		-	2	ha	APRON LIFT CYLINDER	-	-	PURCHASE ITEM	-	-
					CYLINDERS SHALL BE MANUFACTURED BY RACO INTERNATIONAL OR APPROVED EQUAL					
		-	2	hb	RAMP LIFT CYLINDER	-	-	PURCHASE ITEM	-	-
					CYLINDERS SHALL BE MANUFACTURED BY RACO INTERNATIONAL OR APPROVED EQUAL					
					RAMP LIFT TOWER					
		A500 GRB	8	hc	R/L HSS 8 x 6 x 3/4	7	1 1/4	BC2E, 4R/4L	-	-
		A500 GRB	4	hd	HSS 10 x 3 1/2 x 3/4	2	4 1/4	BC2E	-	-
		A500 GRB	4	hf	HSS 10 x 3 1/2 x 3/4	1	2 1/4	BC2E	-	-
		A709 Gr36	8	hg	PL 3/4 x 6		8	-	-	-
		A709 Gr36	4	hh	PL 1/2 x 7	1	4	-	-	-
		A709 Gr36	4	hk	PL 1 x 7 1/4	1	4	-	-	-
		A709 Gr36	8	hm	PL 1 x 9 1/2	1	0	-	-	-
		A706 GR60	2	hn	1# REBAR	2	3 1/4	BENT	-	-
		A706 GR60	2	ht	1# REBAR	2	4 1/4	BENT	-	-
		A706 GR60	2	hu	1# REBAR	2	5 1/4	BENT	-	-
		A706 GR60	2	hv	1# REBAR	2	6 3/4	BENT	-	-
		A706 GR60	2	hw	1# REBAR	2	7 1/4	BENT	-	-
		A706 GR60	2	hx	1# REBAR	2	8 1/4	BENT	-	-
		A706 GR60	2	hy	1# REBAR	2	9 1/4	BENT	-	-
		A325	16	hz	3/8" BOLT	1	1	C/W N&W	-	-
					RAMP LIFT MOTOR COVER					
		6061	2	za	ALU PL 3/8 x 53	4	11	SHAPE & BENT	-	-
		6061	4	zb	ALU PL 3/8 x 20 1/2	1	11 1/2	SHAPE	-	-
		6061	4	zc	ALU PL 3/8 x 8 1/2			SHAPE	-	-
		A709 Gr36	4	zd	R/L L 5 x 3 1/2	1	9	2R/2L	-	-
		A709 Gr36	4	ze	R/L L 5 x 3 1/2	1	2 1/2	2R/2L	-	-
			2	zg	PL 3/4 x 5	1	7 1/2	-	-	-
			4	zh	PL 3/4 x 3		4 1/2	-	-	-
		UHMW	4	zk	6" LONG BLOCK	-	-	SEE DETAIL	-	-
					RAMP TRANSITION PLATE					
			1	wa	PL 1" x 42	20	0	NON SKID (BENT)	-	-
			1	wb	HSS 5 x 6 x 1/2	20	0	CUT FR. HSS6x6	-	-
			1	wc	HSS 3 1/2 x 6 x 1/2	20	0	CUT FR. HSS6x6	-	-
					STANCHION & CHAIN					
			2	wd	2" STD. PIPE	4	0	-	-	-
			8	wf	D-RING	-	-	-	-	-
			2	wg	DOME CAP	-	-	-	-	-
			8	wh	3/4" GR.30 PROOF COIL CHAIN, GALV.	5	0 (±)	-	-	-
			12	wk	LAPLINK			-	-	-
			4	wm	SS SNAP SHACKLE (SWIVEL SHACKLE)			-	-	-

WORK DWG'S S305.1 THRU S305.32 TOGETHER

REF: 28 THRU 32 OF 61

B I L L O F M A T E R I A L										
NO. TO SHIP	SHIPPING MARK	MATL.	NO. PCS.	PIECE MARK	SECTION	LENGTH		REMARKS	WEIGHT EACH	TOTAL WEIGHT
						FEET	IN'S			
ONE	305A				RAMP FRAMING					
△		A709 Gr50	1	a	W27x84 (S305.6)	26	10	CWN CATEGORY F2	-	-
		A709 Gr50	2	b	W24x68 (S305.6)	25	8 ⁵ / ₁₆	CWN CATEGORY T2	-	-
		A709 Gr50	3	c	W24x68 (S305.6)	25	8 ⁵ / ₁₆	CWN CATEGORY T2	-	-
△		A709 Gr50	2	d	W24x68 (S305.6)	4	11 ¹ / ₁₆	CWN CATEGORY T2	-	-
			1	f	W12x45	40	0	-	-	-
			1	g	W12x45	40	0	-	-	-
			2	h	W12x45	26	9 ³ / ₄	-	-	-
			1	k	W12x45	29	6	-	-	-
			1	m	W12x45	15	3 ³ / ₄	-	-	-
			2	n	W12x45	10	9 ³ / ₄	-	-	-
			1	p	W12x45	5	3 ³ / ₄	-	-	-
			1	s	W12x45	3	2 ³ / ₄	-	-	-
			2	t	W12x45	7	11 ¹ / ₄	-	-	-
			1	v	W12x16	15	3 ³ / ₄	-	-	-
			1	w	W8x31	22	4	-	-	-
			5	y	W8x31	3	7 ⁷ / ₁₆	-	-	-
			4	aa	W6x25	6	1 ¹ / ₁₆	BC2E	-	-
			2	ab	W6x25	5	8 ¹ / ₄	BC2E	-	-
			2	ac	W6x25	5	1 ¹ / ₄	BC2E	-	-
			2	ad	W12x45	2	0	BC2E	-	-
		A709 Gr36	2	af	MC18x42.7	5	1 ¹ / ₄	-	-	-
		A709 Gr36	2	ag	MC18x42.7	5	1 ¹ / ₄	-	-	-
△		A709 Gr36	2	ah	MC18x42.7	4	4 ¹ / ₄	-	-	-
		A709 Gr36	2	ak	MC18x42.7	4	4 ¹ / ₄	-	-	-
			2	am	HSS10x6x ³ / ₄	5	2 ¹ / ₄	-	-	-
			2	an	HSS10x6x ³ / ₄	3	0 ¹ / ₄	-	-	-
			2	ap	HSS10x6x ³ / ₄	0	10 ¹ / ₄	-	-	-
			2	as	HSS10x6x ³ / ₄	0	5 ¹ / ₄	-	-	-
			2	at	HSS10x6x ³ / ₄	0	3 ¹ / ₄	-	-	-
			2	av	HSS8x6x ³ / ₄	6	9 ¹ / ₁₆	-	-	-
			2	aw	HSS8x6x ³ / ₄	4	11 ¹ / ₁₆	-	-	-
			10	ay	W15x15	1	10 ¹ / ₄	FITTED (CUT TO 4 ³ / ₁₆)	-	-
		A709 Gr36	2	ca	L4x4x ³ / ₄	6	6 ¹ / ₁₆	BC2E	-	-
		A709 Gr36	2	cb	L4x4x ³ / ₄	6	0 ¹ / ₄	BC2E	-	-
		A709 Gr36	11	cc	L6x6x ³ / ₄	1	0	-	-	-
		A709 Gr36	5	cd	PL3x12	1	4	TAPER, (S305.8)	-	-
		A709 Gr36	2	cf	PL2x8	1	1	(S305.8)	-	-
		A709 Gr36	2	ck	PL3 ³ / ₄ x15	2	0	(S305.8)	-	-
		A709 Gr36	2	cm	PL3 ³ / ₄ x15	1	3	(S305.8)	-	-
		A709 Gr36	4	cn	PL3 ³ / ₄ x9	1	3	(S305.8)	-	-
		A709 Gr36	4	cp	PL3 ³ / ₄ x6 ¹ / ₄	1	3	(S305.8)	-	-
		A709 Gr36	4	cs	PL3 ³ / ₄ x4	1	2	(S305.8)	-	-
		A709 Gr36	11	ct	PL ³ / ₄ x11 ¹ / ₄	1	0	(S305.8)	-	-
		A709 Gr36	2	cv	PL ³ / ₄ x11	0	11	(S305.8)	-	-
		A709 Gr36	6	cw	PL ³ / ₄ x7	0	10	(S305.8)	-	-
		A709 Gr36	2	cx	PL ³ / ₄ x7	0	10	(S305.8)	-	-
		A709 Gr36	10	db	PL3 ³ / ₄ x6 ¹ / ₂	1	2	(S305.8)	-	-
		A709 Gr36	8	dc	PL ³ / ₄ x6	2	1 ¹ / ₄	(S305.8)	-	-
		A709 Gr36	12	dd	PL ³ / ₄ x4 ¹ / ₂	2	1 ¹ / ₄	(S305.8)	-	-
		A709 Gr36	8	df	PL ³ / ₄ x4	1	10 ¹ / ₄	(S305.8)	-	-
		A709 Gr36	2	dg	PL ³ / ₄ x4	1	10 ¹ / ₄	(S305.8)	-	-
		A709 Gr36	8	dh	PL ³ / ₄ x4	1	10 ¹ / ₄	(S305.8)	-	-
		A709 Gr36	28	dk	PL3 ³ / ₄ x7	0	9 ¹ / ₄	(S305.8)	-	-
		A709 Gr36	15	dm	PL3 ³ / ₄ x4 ³ / ₄	0	10 ¹ / ₄	(S305.8)	-	-
		A709 Gr36	11	dn	PL3 ³ / ₄ x3 ³ / ₄	0	10 ¹ / ₄	(S305.8)	-	-
		A709 Gr36	14	dp	PL3 ³ / ₄ x3 ³ / ₄	0	10 ¹ / ₄	(S305.8)	-	-
		A709 Gr36	20	ds	PL3 ³ / ₄ x3 ³ / ₄	0	10 ¹ / ₄	(S305.8)	-	-
		A709 Gr36	16	dt	PL ³ / ₄ x3 ³ / ₄	0	10 ¹ / ₄	(S305.8)	-	-
		A709 Gr36	22	dv	PL3 ³ / ₄ x3	0	3	(S305.8)	-	-
		A709 Gr36	2	dw	PL ³ / ₄ x8	1	0	(S305.8)	-	-
		A709 Gr36	2	dy	PL ³ / ₄ x5 ³ / ₄	0	9 ¹ / ₄	-	-	-
△		A709 Gr50	1	aba	W27x84 (S305.6)	26	10	CWN CATEGORY F2	-	-
△		A709 Gr50	3	abb	W24x68 (S305.6)	4	11 ¹ / ₁₆	CWN CATEGORY T2	-	-
△		SS	39	zaa	3 ¹⁶ / ₁₆ S.S. STUD (S305.6)	-	2 ¹ / ₄	C/W NUT	-	-
△		SS	39	zab	PL 3 ¹⁶ / ₁₆ x 3 (S305.8)	-	3	WASHER FOR zaa	-	-
					FIELD BOLTS					
-		A325			-? # BOLT					

B I L L O F M A T E R I A L										
NO. TO SHIP	SHIPPING MARK	MTRL	NO. PCL	PIECE MARK	SECTION	LENGTH		REMARKS	WEIGHT EACH	TOTAL WEIGHT
						FEET	IN'S			
ONE	FD				FENCE SUB-ASSEMBLY					
		-	3	ma	2" STD. PIPE POST	7	2			
			3	mb	2" POST CAP	-				
			4	td	1 1/2" STD. PIPE	5	0 (LIN. FT.)	CUT TO SUIT		
			1	md	6' HIGH - 9GA. GALV. FENCE FABRIC	10	0 (LIN. FT.)	CUT TO SUIT		
			1	mf	7 GA. TENSION WIRE	11	0 (LIN. FT.)	CUT TO SUIT		
			4	mq	TENSION BAR	6	0 (LIN. FT.)	CUT TO SUIT		
			8	mh	RAIL END CAP	-				
			8	mk	BRACE BAND w/ 3/8" BOLT & NUT	-				
			18	mm	TENSION BAND w/ 3/8" BOLT & NUT	-				
			2	tf	TENSIONING ROD	5	6 (LIN. FT.)	CUT TO SUIT		
			1	mp	TURNBUCKLE	-				
			2	ms	EYE END FITTING	-	-			
2	FF				FENCE SUB-ASSEMBLY					
			4	td	1 1/2" STD. PIPE	6	0 (LIN. FT.)	CUT TO SUIT		
			2	mg	6' HIGH - 9GA. GALV. FENCE FABRIC	6	0 (LIN. FT.)	CUT TO SUIT		
			2	mf	7 GA. TENSION WIRE	7	6 (LIN. FT.)	CUT TO SUIT		
			4	mq	TENSION BAR	6	0 (LIN. FT.)	CUT TO SUIT		
			8	mh	RAIL END CAP	-				
			8	mk	BRACE BAND w/ 3/8" BOLT & NUT	-				
			20	mm	TENSION BAND w/ 3/8" BOLT & NUT	-				
			4	th	TENSIONING ROD	6	6 (LIN. FT.)	CUT TO SUIT		
			2	mp	TURNBUCKLE	-				
			4	ms	EYE END FITTING	-				
ONE	FG				FENCE SUB-ASSEMBLY					
			4	ma	2" STD. PIPE POST	7	2 (LIN. FT.)	CUT TO SUIT		
			4	mb	2" POST CAP	-				
			2	tk	1 1/2" STD. PIPE	5	0 (LIN. FT.)	CUT TO SUIT		
			1	md	6' HIGH - 9GA. GALV. FENCE FABRIC	21	0 (LIN. FT.)	CUT TO SUIT		
			1	mf	7 GA. TENSION WIRE	23	0 (LIN. FT.)	CUT TO SUIT		
			6	mq	TENSION BAR	6	0 (LIN. FT.)	CUT TO SUIT		
			12	mh	RAIL END CAP	-				
			12	mk	BRACE BAND w/ 3/8" BOLT & NUT	-				
			27	mm	TENSION BAND w/ 3/8" BOLT & NUT	-				
			2	tm	TENSIONING ROD	8	6 (LIN. FT.)	CUT TO SUIT		
			1	mp	TURNBUCKLE	-				
			3	ms	EYE END FITTING	-				
			4	va	1 1/2" STD. PIPE	8	6 (LIN. FT.)	CUT TO SUIT		
			1	vb	TENSIONING ROD	5	0 (LIN. FT.)	CUT TO SUIT		
ONE	FH				FENCE SUB-ASSEMBLY					
ONE	FK				FENCE SUB-ASSEMBLY					
			4	ma	2" STD. PIPE POST	7	2 (LIN. FT.)	CUT TO SUIT		
			4	mb	2" POST CAP	-				
			4	tn	1 1/2" STD. PIPE	7	0 (LIN. FT.)	CUT TO SUIT		
			1	md	6' HIGH - 9GA. GALV. FENCE FABRIC	14	0 (LIN. FT.)	CUT TO SUIT		
			1	mf	7 GA. TENSION WIRE	16	0 (LIN. FT.)	CUT TO SUIT		
			4	mq	TENSION BAR	6	0 (LIN. FT.)	CUT TO SUIT		
			8	mh	RAIL END CAP	-				
			8	mk	BRACE BAND w/ 3/8" BOLT & NUT	-				
			18	mm	TENSION BAND w/ 3/8" BOLT & NUT	-				
			4	tp	TENSIONING ROD	7	0 (LIN. FT.)	CUT TO SUIT		
			2	mp	TURNBUCKLE	-				
			4	ms	EYE END FITTING	-				
ONE	FM				SWING GATE					
			2	mb	2" POST CAP	-				
			1	ts	1 1/2" STD. PIPE	3	0 (LIN. FT.)	CUT TO SUIT		
			1	md	6' HIGH - 9GA. GALV. FENCE FABRIC	3	0 (LIN. FT.)	CUT TO SUIT		
			2	mq	TENSION BAR	6	0 (LIN. FT.)	CUT TO SUIT		
			2	mh	RAIL END CAP	-				
			2	mk	BRACE BAND w/ 3/8" BOLT & NUT	-				
			10	mm	TENSION BAND w/ 3/8" BOLT & NUT	-				
			2	tt	TENSIONING ROD	4	0 (LIN. FT.)	CUT TO SUIT		
			2	ms	EYE END FITTING	-				
			1	tv	2" STD. PIPE	19	0 (LIN. FT.)	CUT TO SUIT		
			1	tw	LOCKABLE LATCH	-				
			2	vc	HINGE	-				
						</				

B I L L O F M A T E R I A L										
NO. TO SHIP	SHIPPING MARK	MATERIAL	NO. PCS.	PIECE MARK	SECTION	LENGTH		REMARKS	WEIGHT EACH	TOTAL WEIGHT
						FEET	IN'S			
					AFFRON FINGER ASSEMBLY					
		A709 GR36	3	sw	PL ½ x 22½	4	2	P1E	-	-
		A709 GR36	3	st	PL ½ x 2¾	4	2	P1E	-	-
		A709 GR36	3	py	PL ½ x 1	4	2	-	-	-
		A709 GR36	18	pz R ₁	L2x2x3/8	1	6¼	TAPERED, 15R, 3L	-	-
			12	sa	1½" XS PIPE	-	6	-	-	-
		A709 GR36	3	sb	PL ¾ x 7¼	4	2	-	-	-
		UHMW	3	sc	PL 1 x 12	4	2	YELLOW	-	-
			30	sd	¾" SS ELEVATOR BOLT	-	1½	C/W LOCK NUT	-	-
					AFFRON CLASP ASSEMBLY					
		A709 GR36	4	sf	PL ½ x 5	1	1½ ₁₆	ROLL & BENT	-	-
		A709 GR36	4	sg	PL ½ x 1½	-	3½	-	-	-
		A709 GR36	4	sh	PL ½ x 8	1	0	P1E	-	-
		A709 GR36	4	sk	PL ¾ x 3½	-	11	-	-	-
		A709 GR36	4	sm	PL ¾ x 8	1	0	-	-	-
		M48 TYPE 1	8	sn	¾" COUNTERSINK BOLT	-	3	C/W LOCK WASHER WASHER & NUT	-	-

B I L L O F M A T E R I A L										
NO. TO SHIP	SHIPPING MARK	MATL.	NO. POS.	PIECE MARK	SECTION	LENGTH		REMARKS	WEIGHT EACH	TOTAL WEIGHT
						FEET	IN'S			
					CONTINUED FROM SHEET 3					
					APRON FRAMING ASSEMBLY					
		A709 GR50	1	pw	WT 6x22.5	15	1 1/8	CWN CATEGORY T2	-	-
		A709 GR50	1	px	WT 6x22.5	15	1 1/8	CWN CATEGORY T2	-	-
		A709 GR50	3	na	WT 6x22.5	15	1 1/8	CWN CATEGORY T2	-	-
			8	nb	WT 6x22.5	15	1 1/8	CWN CATEGORY T2	-	-
			1	nc	HSS 6x6x 1/2	12	8	-	-	-
			2	nd	HSS 8x4x 1/2	10	4	BC2E	-	-
			2	nf	HSS 4x4x 1/2	4	0 1/2	BC2E	-	-
		A709 GR36	1	ng	L 3x3x 1/2	12	8	-	-	-
			2	nh	1/2" XS PIPE	-	2 1/2	-	-	-
			11	nk	1/2" XS PIPE	-	6	-	-	-
		A709 GR36	2	nm	PL 1/2 x 5 1/2	-	5 1/2	-	-	-
		A709 GR36	6	nn	PL 1 x 5	-	6	-	-	-
		A709 GR36	3	np	PL 2 x 5	-	6	-	-	-
		A709 GR36	2	ns	PL 1/2 x 3 3/4	-	11 1/4	-	-	-
		A709 GR36	4	nt	PL 1/2 x 3 3/4	-	5 1/4	-	-	-
			4	nv	HSS 6x3x 1/2	2	11 1/2	CS2E	-	-
			2	nw	HSS 3x3x 1/2	10	8	BC2E	-	-
			2	nx	HSS 3x3x 1/2	5	6	CS2E	-	-
			2	ny	HSS 3x3x 1/2	3	5	BC1E	-	-
			4	nz	HSS 3x3x 1/2	1	2	BC2E	-	-
			2	pa	HSS 3x3x 1/2	-	9	BC1E	-	-
			1	pb	2" STD PIPE	25	0	LIN FT	-	-
			1	pc	1/2" STD PIPE	21	0	LIN FT	-	-
		A709 GR36	4	pd	PL 1/2 x 3	-	3 1/4	ROLL	-	-
		A709 GR36	8	pf	FB 1/2 x 4	-	11 1/4	-	-	-
		A709 GR36	4	pg	PL 1/2 x 3 3/4	-	4	-	-	-
		UHMW	5	ph	PL 1 x 7 1/2	3	4	-	-	-
		UHMW	2	pk	PL 1 x 3	6	3 1/4	-	-	-
		A709 GR50	1	pm	PL 1/2 x 152	15	6 1/4	BENT, P2E	-	-
			8	pn	D-RING	-	-	-	-	-
			3	pp	1 1/2" SS BOLT 4" THREADED LENGTH	1	0	C/W WASHER, CASTLE NUT, 1/2" SS COTTER PIN	-	-
			1	ps	1" ROD	13	0	THREADED END	-	-
		F436	2	pt	1" WASHER	-	-	-	-	-
		A563	2	pu	1" NUT	-	-	-	-	-
			2	pv	COTTER PIN	-	-	-	-	-
		A709 GR36	4	paw	PL 1/2 x 2 1/2	-	5 1/4	(S305.24)	-	-
ONE	RA				RAILING ASSEMBLY					
ONE	RB				RAILING ASSEMBLY					
			2	vd	HSS 8 x 4 x 3/8	31	0	BC2E		
			2	vf	HSS 4 x 4 x 1/2	31	0	BC2E		
			4	vg	HSS 4 x 4 x 1/2	1	6	BC2E		
			2	vh	HSS 8 x 6 x 1/2	30	11 1/2	CS2E		
			10	vk	W 6 x 25	4	9	BC2E, (S305.27)		
			2	vm	2" STD. PIPE	36	0	LIN FT		
			2	vn	1 1/2" STD. PIPE	35	0	LIN FT		
		A709 GR36	14	vs	PL 1/2 x 2	0	2 1/2	BENT, (S305.27)		
		A709 GR36	4	vt	PL 1/2 x 6	0	8			
			40	vv	3/4" BOLT RND HEAD	0	5 1/2	C/W N & W + LW		
			20	vw	3/4" BOLT RND HEAD	0	7 1/2	C/W N & W + LW		
			4	vy	D-RING			(S305.27)		
			10	vz	UNISTRUT CHANNEL (PLAIN)	1	0	1 1/2 x 1 1/2 x 12 GA.		
			</							

SHOP NOTES:

- WF: ASTM A992 GR. 50
- HP: ASTM A572-GR.50
- ALL OTHER SHAPES & PLATES: ASTM A36
- TUBE: ASTM A500 GR. B
- PIPE: ASTM A53 GR. B TYPE E OR S
- STAINLESS STEEL: ASTM A276 TYPE 316
- UHMW: ASTM D4020
- ALUMINUM: SHAPES: ASTM 6061-T6
- ALUMINUM: PLATES: ASTM 5086 H112

BOM REV'D TO APPL. COMMENTS (9/29/10)			RP10/05/10		
BOM REV'D TO APPL. COMMENTS (9/9/10)			WIL/JP9/23/10		
APPROVAL ISSUE			-		
No.			REVISIONS		BY DATE

CERT. WELDERS

AMS D1.1 & D1.5 INSPECTION VISUAL

OPEN HOLES

AS NOTED

EXCEPT AS NOTED

PAINT

GALVANIZED

(SPRAY APPLIED PER MFG. RECOMMENDATION)

JOB

ANGOON FERRY TERMINAL IMPROVEMENT

TITLE

RAMP FRAMING

FOR

-

DRAWN

NA

7/29/10

CHK'D

PG

7/27/10

APP'D

SCALE

NONE

JOB NO.

200630

DWG NO.

S305.32

REVISIONS

2

CAD FILE NO. : 20060

WORK DWG'S S305.1 THRU S305.32 TOGETHER

REF: 28 THRU 32 OF 61