

**BRANTLEY ENGINEERING, LLC**  
**GEOMEMBRANE TRIAL SEAM LOG**

PROJECT # : 2014-101  
 PROJECT DESCRIPTION : JED Cell 10 Construction  
 PROJECT LOCATION : St. Cloud, Florida  
 PRIMARY:           X          



OWNER: Omni Waste of Osceola County, LLC  
 ENGINEER: Geosyntec  
 INSTALLER: Comanco  
 DATE: 4/30/2014      PAGE# 1

SECONDARY:

SECONDARY:					FUSION WELD		EXTRUSION WELD		PEEL VALUE lbs/inch						SHEER VALUE lbs/inch					P/F	QA MON.
TF/TX ID #	Time	AMB TEMP.	MACH. ID #	WELD TECH	SPEED	WEDGE SET	PRE HEAT	BARREL SET													
TF-1	745	78	33	AL	13	850			INSIDE	115	120	106	105	105	146	149	144	150	142	P	CJ
									OUTSIDE	121	120	118	114	115							
TF-2	755	78	32	FG	14	850			INSIDE	111	113	107	103	105	135	141	136	137	135	P	CJ
									OUTSIDE	107	111	113	108	111							
TF-3	800	80	20	MI	13	850			INSIDE	97	104	103	107	101	139	148	141	138	138	P	CJ
									OUTSIDE	99	117	105	105	107							
TF-4	805	80	33	AL	13	850			INSIDE	111	128	129	126	124	132	128	135	128	138	P	CJ
									OUTSIDE	114	123	124	115	121							
TX-1	1040	84	72	ED			550	540	INSIDE	120	124	123	117	125	130	132	135	136	131	P	CJ
									OUTSIDE												
TF-5	1235	92	32	FG	14	850			INSIDE	107	102	107	103	100	127	133	131	127	133	P	CJ
									OUTSIDE	101	105	101	101	102							
TF-6	1240	92	33	AL	13	850			INSIDE	91	99	96	91	92	132	131	132	128	140	P	CJ
									OUTSIDE	91	100	107	94	98							
TF-7	1246	92	20	MI	13	850			INSIDE	104	96	102	95	94	124	124	128	123	131	P	CJ
									OUTSIDE	99	102	111	102	111							
TF-8	1251	92	20	MI	13	850			INSIDE	118	119	124	124	122	134	135	132	138	132	P	CJ
									OUTSIDE	120	123	128	123	125							
TF-9	1256	92	33	AL	13	850			INSIDE	124	127	122	116	124	130	132	135	130	130	P	CJ
									OUTSIDE	124	128	123	117	125							
TF-10	1306	92	32	FG	13	850			INSIDE	121	118	119	112	121	126	127	126	125	126	P	CJ
									OUTSIDE	117	115	122	121	121							
									INSIDE												
									OUTSIDE												
									INSIDE												
									OUTSIDE												

Passing Peel Fusion (91 lb/in): \_\_\_\_\_ Passing Peel Extrusion (78 lb/in): \_\_\_\_\_ Passing Shear Fusion (120 lb/in): \_\_\_\_\_ Passing Shear Extrusion (120 lb/in): \_\_\_\_\_

REVIEWED BY :           SN          

DATE :           6/9/14

PROJECT # : 2014-101

PROJECT DESCRIPTION : JED Cell 10 Construction

PROJECT LOCATION : St. Cloud, Florida

PRIMARY: X

SECONDARY:



Brantley  
Engineering, LLC

OWNER: Omni Waste of Osceola County, LLC

ENGINEER: Geosyntec

INSTALLER: Comanco

DATE: 5/1/2014

PAGE# 2

SECONDARY:					FUSION WELD		EXTRUSION WELD																
TF/TX ID #	Time	AMB TEMP.	MACH. ID #	WELD TECH	SPEED	WEDGE SET	PRE HEAT	BARREL SET	PEEL VALUE lbs/inch						SHEER VALUE lbs/inch					P/F	QA MON.		
TX-1	750	76	42	ST			480	480	INSIDE	122	125	122	116	108	150	149	150	149	147	P	CJ		
									OUTSIDE														
TX-2	755	76	30	AL			530	500	INSIDE	133	127	99	128	126	160	162	161	154	153	P	CJ		
									OUTSIDE														
TX-3	820	76	72	ED			540	540	INSIDE	140	134	140	139	120	161	154	150	150	144	P	CJ		
									OUTSIDE														
TX-4	1245	80	72	ED			540	540	INSIDE	127	132	129	132	129	140	149	138	131	145	P	CJ		
									OUTSIDE														
									INSIDE														
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Passing Peel Fusion (91 lb/in): \_\_\_\_\_

Passing Peel Extrusion (78 lb/in): \_\_\_\_\_

Passing Shear Fusion (120 lb/in): \_\_\_\_\_

Passing Shear Extrusion (120 lb/in): \_\_\_\_\_

PROJECT # : 2014-101

PROJECT DESCRIPTION : JED Cell 10 Construction

PROJECT LOCATION : St. Cloud, Florida

PRIMARY: X

SECONDARY:



Brantley  
Engineering, LLC

OWNER: Omni Waste of Osceola County, LLC

ENGINEER: Geosyntec

INSTALLER: Comanco

DATE: 5/6/2014

PAGE# 3

SECONDARY:					FUSION WELD		EXTRUSION WELD														
TF/TX ID #	Time	AMB TEMP.	MACH. ID #	WELD TECH	SPEED	WEDGE SET	PRE HEAT	BARREL SET	PEEL VALUE lbs/inch						SHEER VALUE lbs/inch					P/F	QA MON.
TF-1	735	68	32	FG	13	850			INSIDE	109	125	107	118	114	157	153	153	148	148	P	CJ
									OUTSIDE	118	120	107	116	109							
TF-2	740	70	33	AL	12	850			INSIDE	120	138	129	121	107	166	189	177	175	169	P	CJ
									OUTSIDE	120	131	123	133	123							
TF-3	745	70	20	MI	12	850			INSIDE	113	130	117	115	117	160	160	157	151	149	P	CJ
									OUTSIDE	108	126	115	113	112							
TF-4	750	70	33	AL	12	850			INSIDE	138	133	136	150	134	159	160	160	160	160	P	CJ
									OUTSIDE	146	150	149	127	146							
TF-5	755	70	32	FG	13	850			INSIDE	149	144	149	128	132	175	181	186	178	180	P	CJ
									OUTSIDE	140	142	137	141	131							
TF-6	800	70	20	MI	12	850			INSIDE	140	136	142	142	139	145	152	148	155	154	P	CJ
									OUTSIDE	138	133	139	132	128							
TX-1	950	80	72	ED			540	540	INSIDE	142	140	130	124	133	148	153	152	148	145	P	CJ
									OUTSIDE												
TX-2	1010	84	42	ST			450	450	INSIDE	116	126	117	115	118	130	132	133	138	136	P	CJ
									OUTSIDE												
									INSIDE												
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Passing Peel Fusion (91 lb/in): \_\_\_\_\_

Passing Peel Extrusion (78 lb/in): \_\_\_\_\_

Passing Shear Fusion (120 lb/in): \_\_\_\_\_

Passing Shear Extrusion (120 lb/in): \_\_\_\_\_

PROJECT # : 2014-101

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PROJECT LOCATION : St. Cloud, Florida

PRIMARY: X

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Brantley  
Engineering, LLC

OWNER: Omni Waste of Osceola County, LLC

ENGINEER: Geosyntec

INSTALLER: Comanco

DATE: 5/13/2014

PAGE# 4

SECONDARY:					FUSION WELD		EXTRUSION WELD														
TF/TX ID #	Time	AMB TEMP.	MACH. ID #	WELD TECH	SPEED	WEDGE SET	PRE HEAT	BARREL SET	PEEL VALUE lbs/inch						SHEER VALUE lbs/inch					P/F	QA MON.
TF-1	1312	89	32	FG	13	850			INSIDE	94	100	102	97	99	141	144	150	155	137	P	CJ
									OUTSIDE	97	101	101	95	102							
TF-2	1317	89	20	MI	13	850			INSIDE	105	94	112	96	102	126	128	148	139	136	P	CJ
									OUTSIDE	95	111	106	97	100							
TF-3	1345	89	33	BV	12	850			INSIDE	103	105	103	110	95	138	134	141	131	136	P	CJ
									OUTSIDE	94	100	104	97	105							
TX-1	1631	90	72	ED			540	540	INSIDE	122	132	138	132	121	154	158	160	170	155	P	CJ
									OUTSIDE												
TX-2	1700	90	42	BV			500	460	INSIDE	116	131	124	108	120	163	158	167	179	159	P	CJ
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Passing Peel Fusion (91 lb/in): \_\_\_\_\_

Passing Peel Extrusion (78 lb/in): \_\_\_\_\_

Passing Shear Fusion (120 lb/in): \_\_\_\_\_

Passing Shear Extrusion (120 lb/in): \_\_\_\_\_

PROJECT # : 2014-101

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PROJECT LOCATION : St. Cloud, Florida

PRIMARY: X

SECONDARY:



Brantley  
Engineering, LLC

OWNER: Omni Waste of Osceola County, LLC

ENGINEER: Geosyntec

INSTALLER: Comanco

DATE: 5/14/2014

PAGE# 5

SECONDARY:					FUSION WELD		EXTRUSION WELD														
TF/TX ID #	Time	AMB TEMP.	MACH. ID #	WELD TECH	SPEED	WEDGE SET	PRE HEAT	BARREL SET	PEEL VALUE lbs/inch						SHEER VALUE lbs/inch					P/F	QA MON.
TF-1	821	79	32	FG	13	850			INSIDE	102	106	108	103	98	141	142	147	145	148	P	CJ
									OUTSIDE	115	113	115	107	111							
TF-2	830	79	33	SM	10	800			INSIDE	106	104	100	99	93	142	146	151	141	140	P	CJ
									OUTSIDE	101	110	109	97	105							
TF-3	840	80	32	FG	13	850			INSIDE	113	102	104	104	107	132	143	145	140	135	P	CJ
									OUTSIDE	103	105	104	97	102							
TX-1	900	83	72	ED			540	540	INSIDE	143	126	140	142	141	144	142	148	138	158	P	CJ
									OUTSIDE												
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Passing Peel Fusion (91 lb/in): \_\_\_\_\_

Passing Peel Extrusion (78 lb/in): \_\_\_\_\_

Passing Shear Fusion (120 lb/in): \_\_\_\_\_

Passing Shear Extrusion (120 lb/in): \_\_\_\_\_

PROJECT # : 2014-101

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PROJECT LOCATION : St. Cloud, Florida

PRIMARY:           X          

SECONDARY:



Brantley  
Engineering, LLC

OWNER: Omni Waste of Osceola County, LLC

ENGINEER: Geosyntec

INSTALLER: Comanco

DATE: 5/15/2014

PAGE# 6

SECONDARY:					FUSION WELD		EXTRUSION WELD														
TF/TX ID #	Time	AMB TEMP.	MACH. ID #	WELD TECH	SPEED	WEDGE SET	PRE HEAT	BARREL SET	PEEL VALUE lbs/inch						SHEER VALUE lbs/inch					P/F	QA MON.
TX-1	1100	85	42	ST			500	490	INSIDE	103	100	103	106	110	156	148	157	150	154	P	CJ
									OUTSIDE												
TX-2	1200	87	72	ED			540	540	INSIDE	114	94	83	87	98	146	147	156	148	156	P	CJ
									OUTSIDE												
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Passing Peel Fusion (91 lb/in): \_\_\_\_\_ Passing Peel Extrusion (78 lb/in): \_\_\_\_\_ Passing Shear Fusion (120 lb/in): \_\_\_\_\_ Passing Shear Extrusion (120 lb/in): \_\_\_\_\_

PROJECT # : 2014-101

PROJECT DESCRIPTION : JED Cell 10 Construction

PROJECT LOCATION : St. Cloud, Florida

PRIMARY: X

SECONDARY:



Brantley  
Engineering, LLC

OWNER: Omni Waste of Osceola County, LLC

ENGINEER: Geosyntec

INSTALLER: Comanco

DATE: 5/16/2014

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SECONDARY:					FUSION WELD		EXTRUSION WELD		PEEL VALUE lbs/inch						SHEER VALUE lbs/inch					P/F	QA MON.
TF/TX ID #	Time	AMB TEMP.	MACH. ID #	WELD TECH	SPEED	WEDGE SET	PRE HEAT	BARREL SET													
TF-1	935	68	32	FG	12	850			INSIDE	102	118	124	110	110	160	163	163	159	168	P	CJ
									OUTSIDE	117	126	127	118	119							
TF-2	940	68	32	FG	12	850			INSIDE	117	140	135	120	126	164	166	169	161	179	P	CJ
									OUTSIDE	117	130	137	125	130							
TF-3	950	68	97	MI	13	850			INSIDE	102	135	113	106	121	150	158	158	155	155	P	CJ
									OUTSIDE	101	114	127	102	106							
TF-4	1000	68	33	SM	11	800			INSIDE	105	113	112	110	108	166	152	162	159	158	P	CJ
									OUTSIDE	108	110	114	104	108							
TF-5	1230	80	32	FG	12	850			INSIDE	110	108	107	111	106	152	158	161	162	160	P	CJ
									OUTSIDE	109	111	113	112	109							
TF-6	1235	80	33	SM	11	800			INSIDE	111	114	113	110	111	150	148	144	149	160	P	CJ
									OUTSIDE	109	110	113	106	108							
									INSIDE												
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Passing Peel Fusion (91 lb/in): \_\_\_\_\_

Passing Peel Extrusion (78 lb/in): \_\_\_\_\_

Passing Shear Fusion (120 lb/in): \_\_\_\_\_

Passing Shear Extrusion (120 lb/in): \_\_\_\_\_

PROJECT # : 2014-101

PROJECT DESCRIPTION : JED Cell 10 Construction

PROJECT LOCATION : St. Cloud, Florida

PRIMARY:           X          

SECONDARY:



Brantley  
Engineering, LLC

OWNER: Omni Waste of Osceola County, LLC

ENGINEER: Geosyntec

INSTALLER: Comanco

DATE: 5/17/2014

PAGE# 8

SECONDARY:					FUSION WELD		EXTRUSION WELD														
TF/TX ID #	Time	AMB TEMP.	MACH. ID #	WELD TECH	SPEED	WEDGE SET	PRE HEAT	BARREL SET	PEEL VALUE lbs/inch						SHEER VALUE lbs/inch					P/F	QA MON.
TF-1	823	67	32	FG	13	850			INSIDE	147	160	156	148	152	182	173	172	170	166	P	CJ
									OUTSIDE	146	155	155	155	147							
TX-1	800	67	42	SM			480	480	INSIDE	105	124	129	140	130	149	157	156	159	147	P	CJ
									OUTSIDE												
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Passing Peel Fusion (91 lb/in): \_\_\_\_\_

Passing Peel Extrusion (78 lb/in): \_\_\_\_\_

Passing Shear Fusion (120 lb/in): \_\_\_\_\_

Passing Shear Extrusion (120 lb/in): \_\_\_\_\_



PROJECT # : 2014-101

PROJECT DESCRIPTION : JED Cell 10 Construction

PROJECT LOCATION : St. Cloud, Florida

PRIMARY: X

SECONDARY:



Brantley  
Engineering, LLC

OWNER: Omni Waste of Osceola County, LLC

ENGINEER: Geosyntec

INSTALLER: Comanco

DATE: 5/23/2014

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TF/TX ID #	Time	AMB TEMP.	MACH. ID #	WELD TECH	FUSION WELD		EXTRUSION WELD		PEEL VALUE lbs/inch					SHEER VALUE lbs/inch					P/F	QA MON.
					SPEED	WEDGE SET	PRE HEAT	BARREL SET	INSIDE											
TF-1	800	77	32	FG	14	850			103	111	110	114	111	148	157	151	150	158	P	CJ
									OUTSIDE	103	114	106	111	104						
TF-2	805	78	34	MI	12	850			116	127	127	108	126	160	163	167	165	167	P	CJ
									OUTSIDE	107	110	119	105	109						
TF-3	812	79	33	SM	12	800			109	109	108	97	106	156	152	152	163	146	P	CJ
									OUTSIDE	102	112	108	104	101						
TF-4	820	78	32	FG	14	850			124	135	118	130	124	151	163	161	162	157	P	CJ
									OUTSIDE	119	119	133	119	127						
TF-5	1234	95	33	SM	12	800			101	100	105	102	113	140	150	152	157	153	P	CJ
									OUTSIDE	114	109	103	104	111						
TX-1	1500	100	72	ED			540	540	141	101	142	149	130	155	161	157	157	155	P	CJ
									OUTSIDE											
TX-2	1530	100	30	SM			450	450	123	126	125	141	126	160	161	163	162	161	P	CJ
									OUTSIDE											
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Passing Peel Fusion (91 lb/in): \_\_\_\_\_

Passing Peel Extrusion (78 lb/in): \_\_\_\_\_

Passing Shear Fusion (120 lb/in): \_\_\_\_\_

Passing Shear Extrusion (120 lb/in): \_\_\_\_\_

PROJECT # : 2014-101

PROJECT DESCRIPTION : JED Cell 10 Construction

PROJECT LOCATION : St. Cloud, Florida

PRIMARY:           X          

SECONDARY:



Brantley  
Engineering, LLC

OWNER: Omni Waste of Osceola County, LLC

ENGINEER: Geosyntec

INSTALLER: Comanco

DATE: 5/24/2014

PAGE# 10

SECONDARY:					FUSION WELD		EXTRUSION WELD														
TF/TX ID #	Time	AMB TEMP.	MACH. ID #	WELD TECH	SPEED	WEDGE SET	PRE HEAT	BARREL SET	PEEL VALUE lbs/inch						SHEER VALUE lbs/inch					P/F	QA MON.
TF-1	804	80	32	FG	14	850			INSIDE	101	119	110	106	102	140	149	153	144	149	P	CJ
									OUTSIDE	102	111	118	112	102							
TF-2	812	80	33	SM	12	800			INSIDE	99	101	107	103	98	150	153	150	158	162	P	CJ
									OUTSIDE	110	115	123	112	116							
TF-3	817	80	34	MI	13	850			INSIDE	102	122	132	124	104	134	151	148	140	153	P	CJ
									OUTSIDE	125	126	127	113	125							
TF-4	825	80	32	FG	14	850			INSIDE	119	143	144	126	122	154	156	153	164	162	P	CJ
									OUTSIDE	129	140	140	126	121							
TX-1	1300	100	6	ED			540	500	INSIDE	104	100	104	111	110	148	154	148	138	137	P	CJ
									OUTSIDE												
TX-2	1328	100	42	SM			480	480	INSIDE	100	100	100	108	103	143	146	150	138	147	P	CJ
									OUTSIDE												
TF-5	1230	100	33	SM	12	800			INSIDE	112	115	116	118	115	151	156	158	156	160	P	CJ
									OUTSIDE	109	118	119	120	114							
TF-6	1235	100	34	MI	13	850			INSIDE	114	116	116	110	108	158	164	168	151	150	P	CJ
									OUTSIDE	112	116	117	112	109							
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Passing Peel Fusion (91 lb/in): \_\_\_\_\_

Passing Peel Extrusion (78 lb/in): \_\_\_\_\_

Passing Shear Fusion (120 lb/in): \_\_\_\_\_

Passing Shear Extrusion (120 lb/in): \_\_\_\_\_