

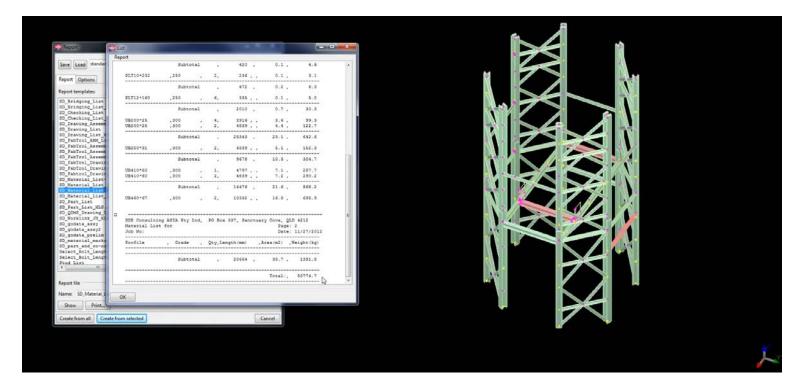
SDE Services





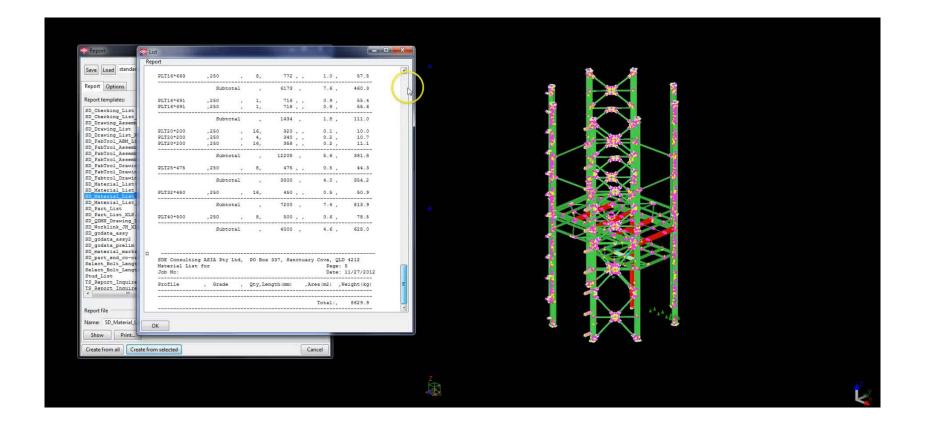
Tender Take Off

Members are stick modelled in for early material take off. All members are modelled in to touching faces to minimise waste and produce extremely accurate material take off.





Members are macro connected to tender drawings to provide plate weights and take offs, bolts take offs are also provided.







41a Quay St, Sanctuary Cove, QLD, 4212 Phone: 07 55779730

Client:

Date: 05.12.2012

Project Number: Project Name: Phase:

Material List

Profile	Grade	Qty	Length(mm)	Area(m2)	Weight(kg)
CHS76.1*3.2	350	1	2610	0.6	15
CHS76.1*3.2	350	1	2610	0.6	15
CHS76.1*3.2	350	1	4086	1	23.5
CHS76.1*3.2	350	1	4086	1	23.5
CHS76.1*3.2	350	1	4086	1	23.5
CHS76.1*3.2	350	1	4086	1	23.5
CHS76.1*3.2	350	1	4086	1	23.5
CHS76.1*3.2	350	1	4086	1	23.5
CHS76.1*3.2	350	1	4086	1	23.5
CHS76.1*3.2	350	1	4086	1	23.5
CHS76.1*3.2	350	1	4086	1	23.5
CHS76.1*3.2	350	1	4086	1	23.5
CHS76.1*3.2	350	1	4086	1	23.5
CHS76.1*3.2	350	1	4086	1	23.5
CHS76.1*3.2	350	1	4086	1	23.5
CHS76.1*3.2	350	1	4086	1	23.5
CHS76.1*3.2	350	1	4086	1	23.5
CHS76.1*3.2	350	1	4086	1	23.5
CHS76.1*3.2	350	1	4086	1	23.5
CHS76.1*3.2	350	1	4086	1	23.5
UB200*25	300	1	4809	4.4	121.9
UB200*25	300	1	4809	4.4	121.9
UB200*25	300	1	4809	4.4	121.9
UB200*25	300	1	4809	4.4	121.9
UB200*25	300	1	4809	4.4	121.9
UB200*25	300	1	4809	4.4	121.9
UB200*25	300	1	4809	4.4	121.9
PFC150*75	300	1	2606	1.5	46
PFC150*75	300	1	2668	1.5	47.1
PFC150*75	300	1	2711	1.6	47.9
PFC150*75	300	1	2869	1.7	50.7
PFC150*75	300	1	2869	1.7	50.7
PFC150*75	300	1	2869	1.7	50.7
PFC150*75	300	1	2869	1.7	50.7
PFC150*75	300	1	2869	1.7	50.7
PFC150*75	300	1	2869	1.7	50.7
PFC150*75	300	1	2869	1.7	50.7

SDE provide Excel format material take offs for client manipulation.

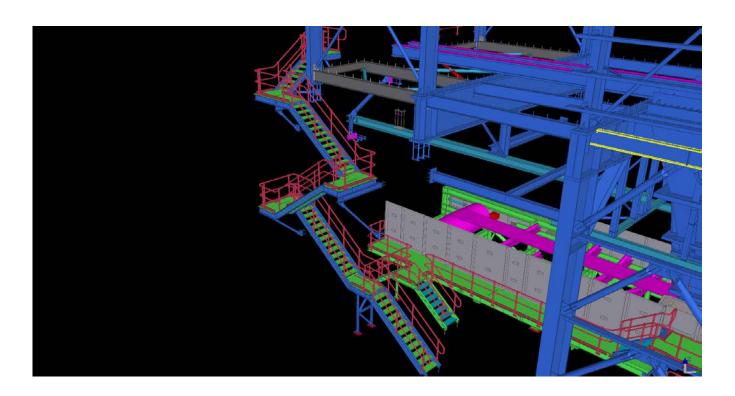


Detailing

SDE Consulting produces high quality shop detailing drawings, achieved by modelling the project as a 3D model from the engineering drawings to overcome any conflict/clashes. This is then directly converted into shop detailing drawings to issue to the fabricators.

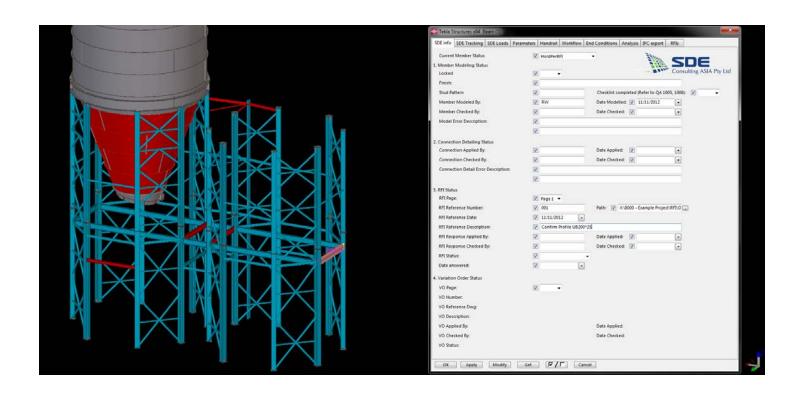


SDE assign statuses to all members in the 3D model, this allows the steel detailers to visibly see the model in different stages from which members have been stick modelled, connected, checked, issued etc.



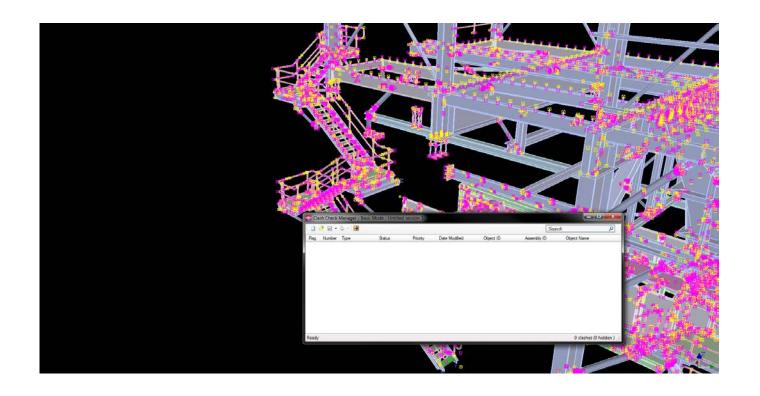


SDE steel detailers attach RFI information to the steel, by using the 'current member status' mode we can visibly see which members are still on hold.





SDE performs clash checks on the model to ensure no rework is required. Any clashes will appear in the clash check manager box which will notify the steel detailer of its location.

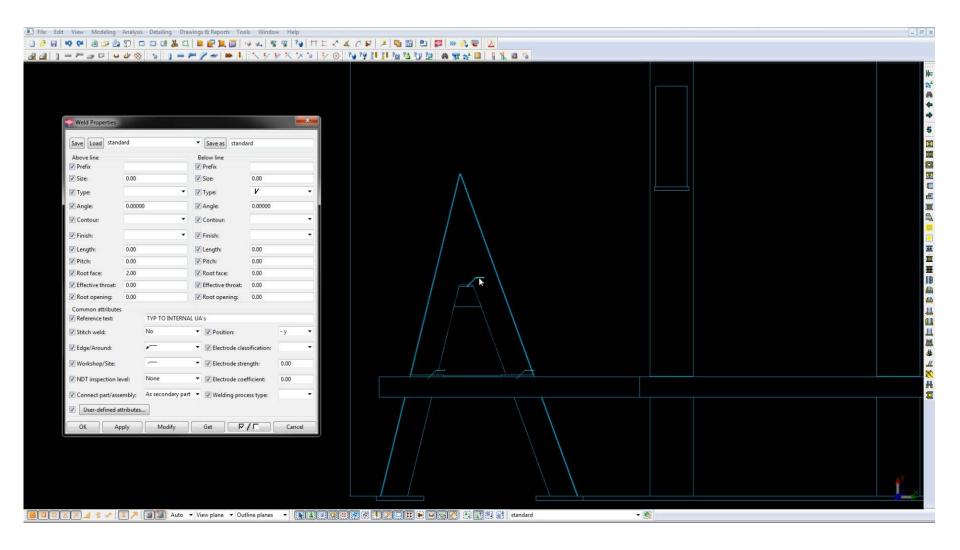




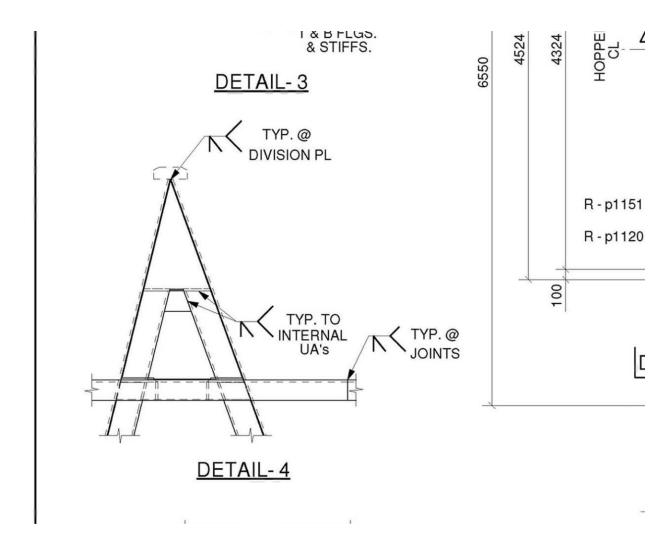
FABRICATION QA

SDE can place workshop QA staff any where in the world to ensure that all fabrication work are to the highest standards.





SDE fully model all weld information into the model form the engineers drawings.



This information is carried through automatically to the 2D shop drawings.



SDE Consulting ASIA	Pty Ltd	QA INSPECTIO	
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	JOB FILE	FORMAT: FULL /SIMPLE EQUIRED: YES /NO	
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checked to drawings			
inspected material certifications			
Structural steel checks		_	
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SDE uses a comprehensive QA inspection sheet to cover all aspects of fabrication in the workshop.

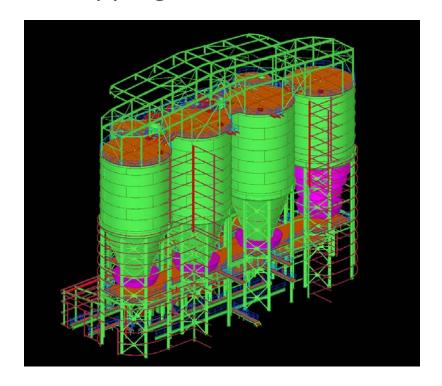






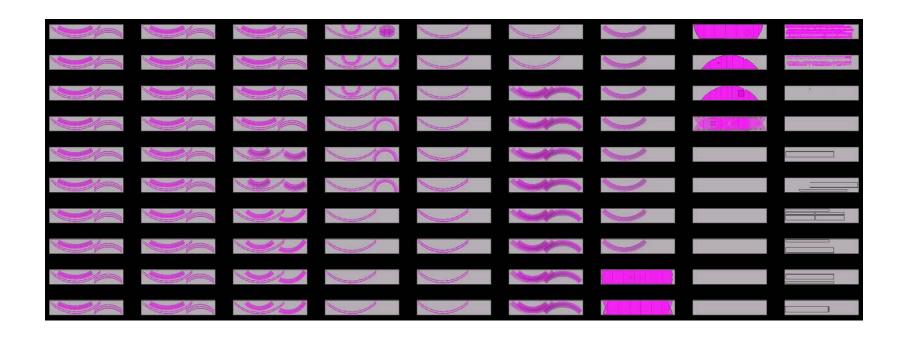
Transportation

SDE Consulting can model the project parts into available container sizes, reports can be created from each container content and container quantity can be determined for shipping costs.





Model can be colour coded to show steel assigned to containers. Steel shown in purple has been assigned. This ensures all steel is covered and accounted for when calculating exact container amount for tendering.





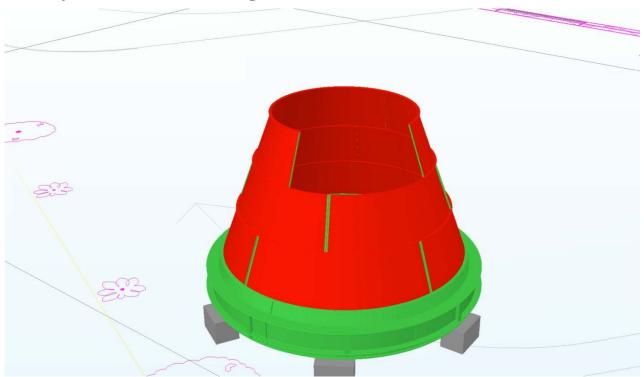
<u>Transportation Method Assistance:-</u>

- Steel checked for transportation sizes
- Steel containerised to exact quantities required
- Reports created for each container content
- Contained steel is tagged with ship numbers
- Contained steel is tagged with container reference number
- Contained steel tracked from workshop to site

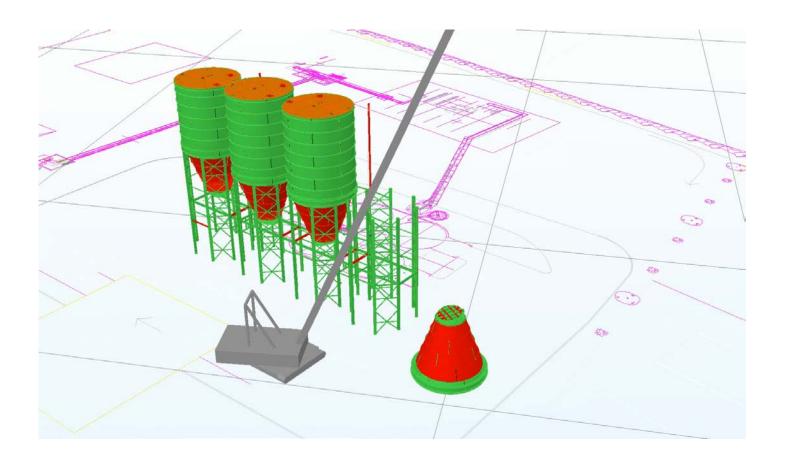


Erection Modelling

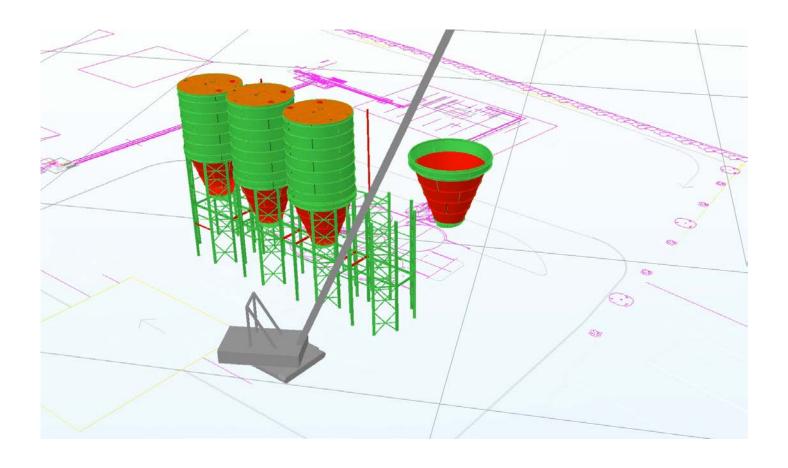
SDE Consulting provide erection sequencing assistance ensuring laydown area, site space and site difficulties are spotted pre-tender stage.



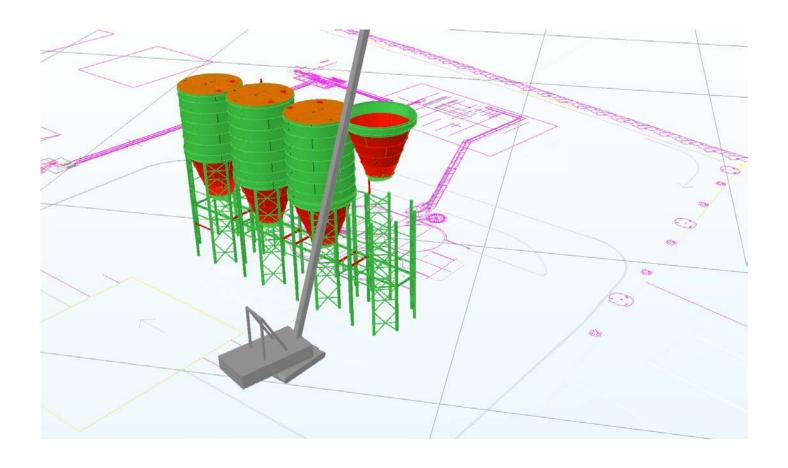




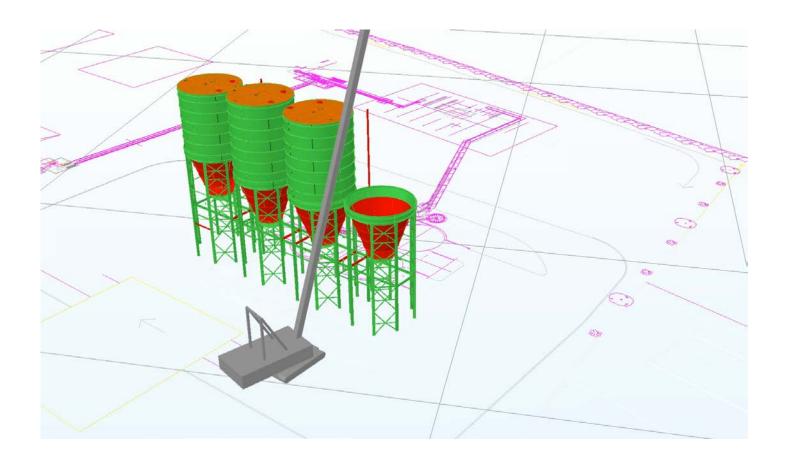






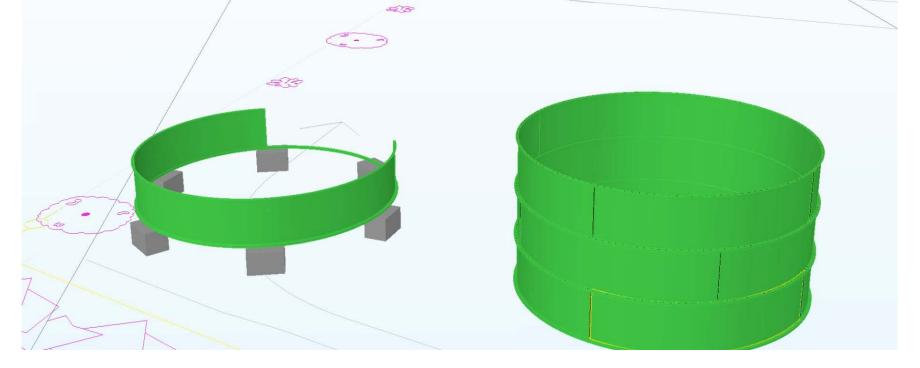






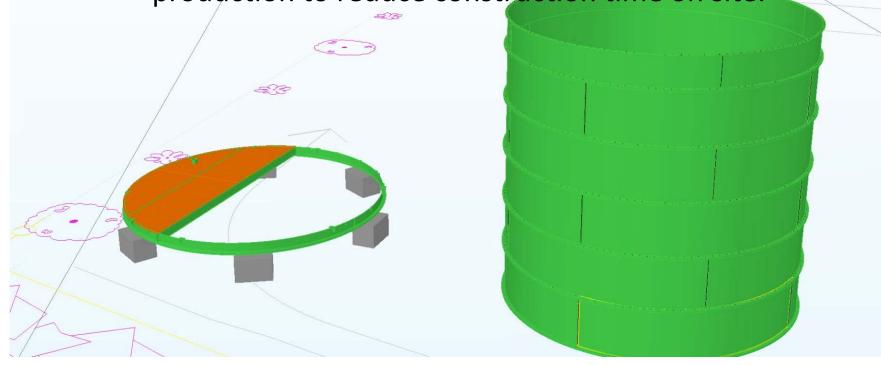


SDE provide laydown area planning in tandem with the site schedule for example, building 4 of these silo tops simultaneously can be easily achieved by utilising the site plan in our 3D model to assist site with the laydown area to minimise space wastage on site and maximise production to reduce construction time on site.

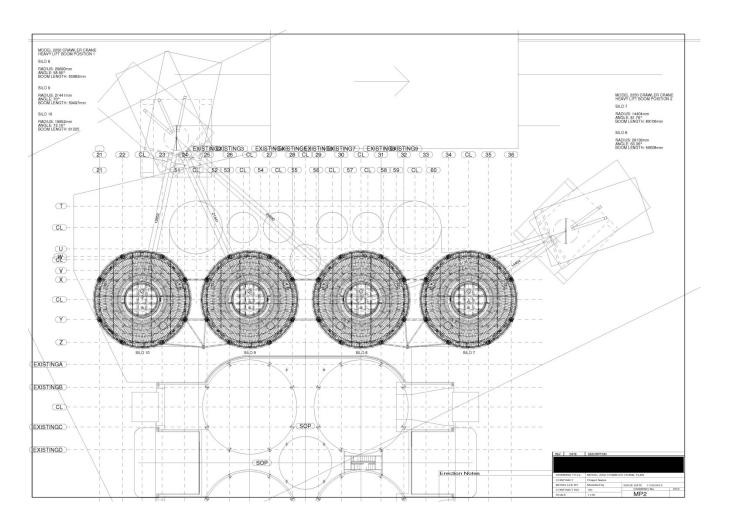




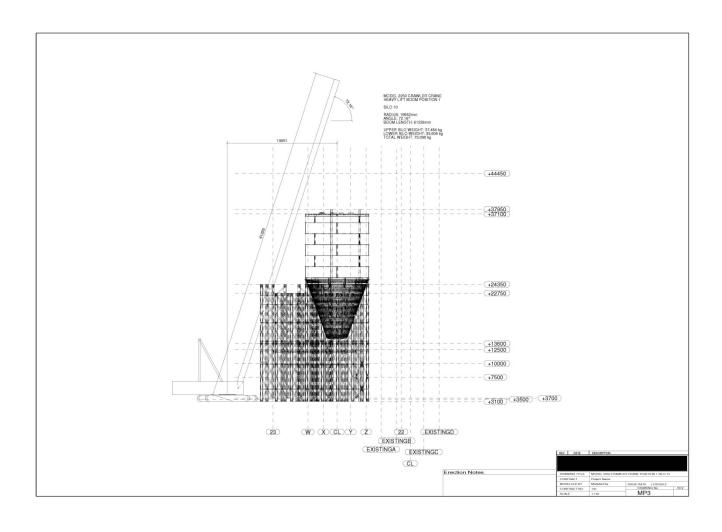
SDE provide laydown area planning in tandem with the site schedule for example, building 4 of these silo tops simultaneously can be easily achieved by utilising the site plan in our 3D model to assist site with the laydown area to minimise space wastage on site and maximise production to reduce construction time on site.



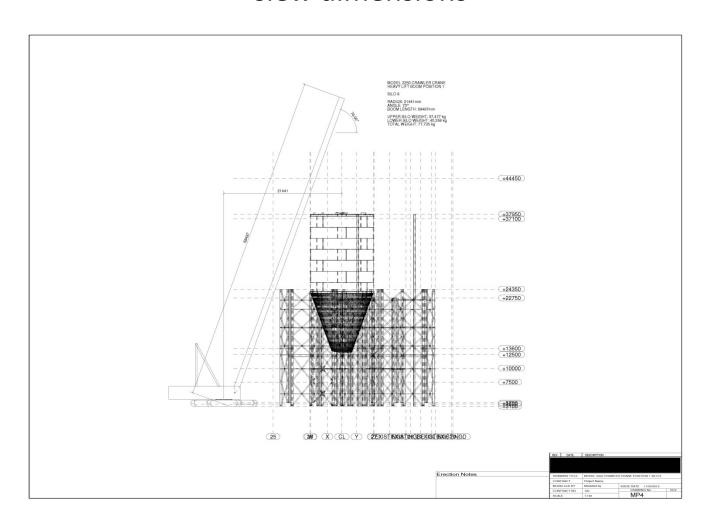




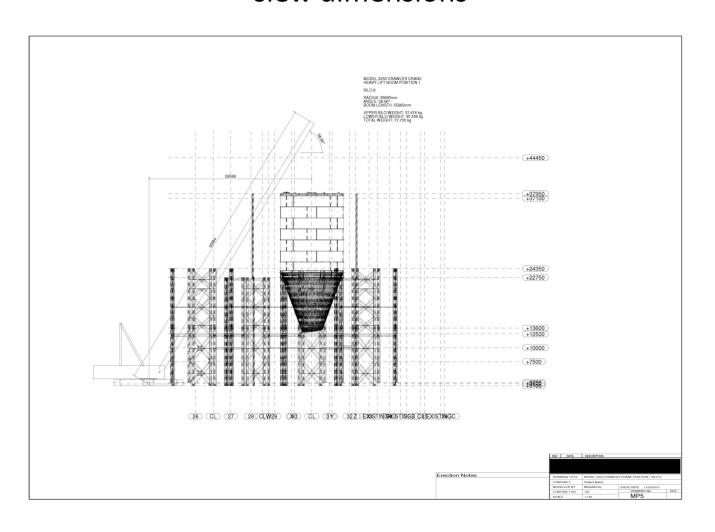










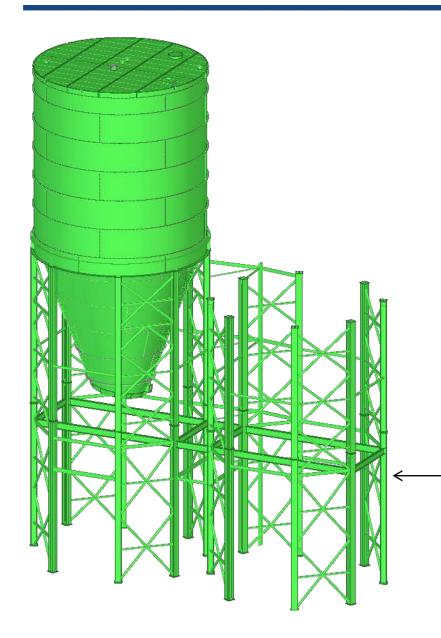




MATERIAL MANAGEMENT LIVE TRACKING OF STEEL

SDE Consulting utilise the latest data software on the market to "push" status of steel members into the model from external sources. This in conjunction with the SDE cloud server creates live updates straight into our 3D model from workshops or site.





Class colour	Class code	Member Status
	Class 3	Modelling Completed
	Class 4	Material Ordered
	Class 5	Shop Detailing Completed
	Class 6	Assembly Fabrication Completed
	Class 7	Surface Tretment Completed
	Class 8	Assembly in Transit
	Class 9	Assembly on Site
	Class 10	Assembly Erected

SDE can customise the member status to suit the clients needs.

Class 3 = Modelling Completed



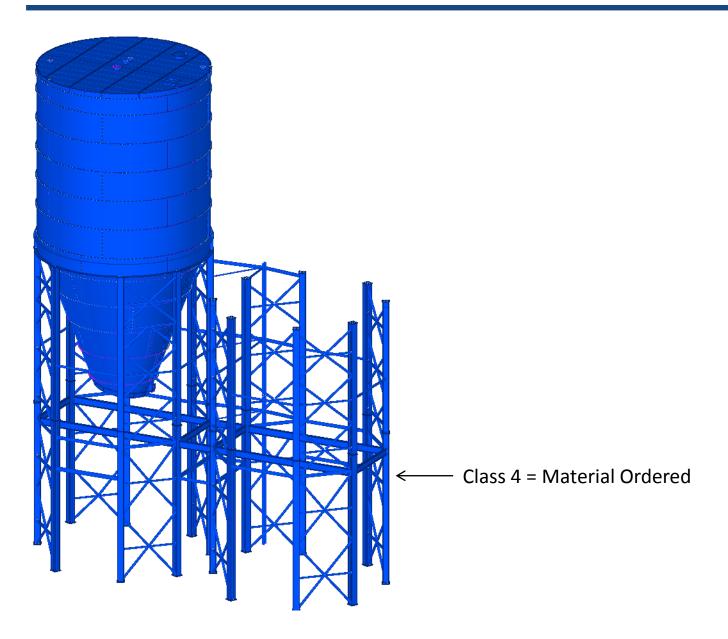


Material List for Trestles

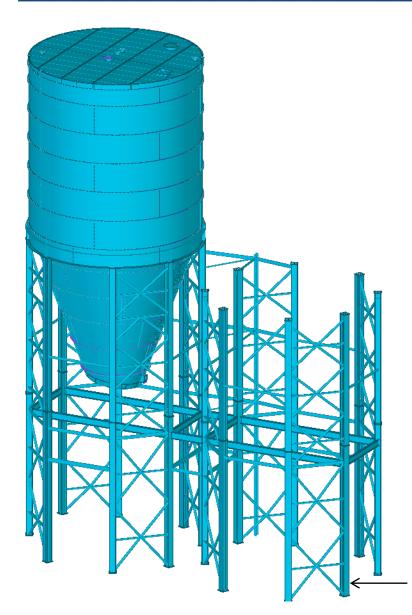
Job No:		0.	Lance Market Company	Date:	184-1-1-14-A
Profile	Grade	Qty	Length(mm)	Area(m2)	Weight(kg)
CHS101.6*4.0	300	2	2834	0.9	27.
		Subtotal	5668	1.8	54.
CHS168.3*4.8	300	2	2690	1.4	54.
CHS168.3*4.8	300	4	3096	1.6	62.
CHS168.3*4.8	300	2	3329	1.8	67.
CHS168.3*4.8	300	2	3353	1.8	67.
CHS168.3*4.8	300	2	3628	1.9	73.
CHS168.3*4.8	300	2	3685	1.9	74.
CHS168.3*4.8	300	2	3966	2.1	8
CHS168.3*4.8	300	2	4040	2.1	81.
CHS168.3*4.8	300	1	4316	2.3	87.
CHS168.3*4.8	300	1	4319	2.3	87.
CHS168.3*4.8	300	2	4462	2.4	9
CHS168.3*4.8	300	2	4592	2.4	92.
CHS168.3*4.8	300	2	4756	2.5	9
CHS168.3*4.8	300	2	4889	2.6	98.
CHS168.3*4.8	300	2	5082	2.7	102.
CHS168.3*4.8	300	2	5107	2.7	10
CHS168.3*4.8	300	2	5492	2.9	110.
CHS168.3*4.8	300	2	5904	3.1	119.
		Subtotal	150966	79.9	3045.
PFC380*100	300	1	4540	5.1	250.
PFC380*100	300	1	5283	6	291.
PFC380*100	300	1	6027	6.8	332.
PFC380*100	300	1	6750	7.6	372.
PFC380*100	300	1	7085	8	39
PFC380*100	300	1	7507	8.5	414.
PFC380*100	300	1	7724	8.7	426.
PFC380*100	300	1	8257	9.3	455.
PFC380*100	300	1	8362	9.4	461.
		Subtotal	61534	69.5	3395.
UC310*118	300	1	10187	18.4	1199.
UC310*118	300	1	10214	18.5	1202.
		Subtotal	20401	36.9	2402.
WB800*192	300	2	8126	22.8	1556.
WB800*192	300	2	9865	27.7	1889.
		Subtotal	35981	101.1	6891.
WB900*257	300	2	10440	35.6	2679.
WB900*257	300	2	12241	41.7	3142.
WB900*257	300	2	12856	43.8	330
WB900*257	300	2	14987	51.1	3847.
WB900*258		Subtotal	101048	344.6	25938.
				Total:	39326.

SDE then issues a material list for pre-ordering.





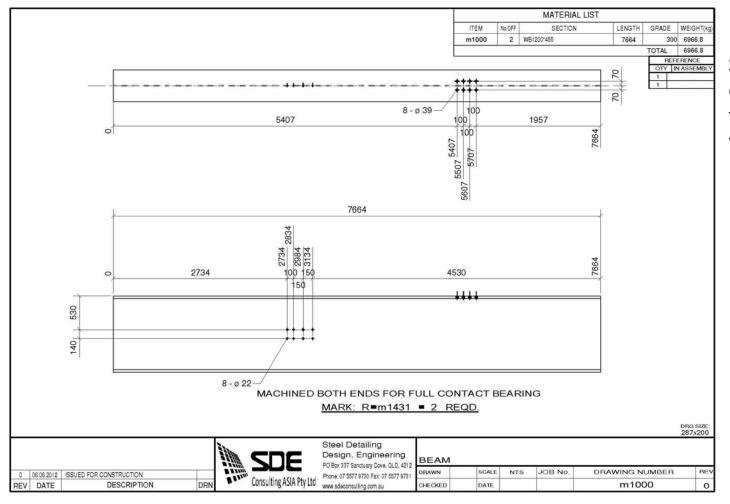




Tekla Structures x64 Column (1)	X					
SDE info SDE Tracking SDE Loads	Parameters Handrail Workflow End Conditions Analysis IFC export RFIs					
Workshop Status Workshop used: Steel Status:	♥ Blenco Welding SDE Consulting ASIA Pty Ltd					
2. Transportation Status	Containerised Containing ASIA T ty Ltd					
Delivery Status:	▼ In Transit ▼					
Date Shipped:	☑ 03/12/2012 •					
LOT Number:	▼ TD07					
Ship Number:	₩ IMO 7320545					
Container Number:	▼ CSDU4556636					
Estimated Arrival Date: 3. Site Status	▼ 12/12/2012 ▼					
Sequence Number:	▽					
Site Status:	▼ •					
Erection Date:						
SDE will cust	omise the 'UDA' (user defined					
attributes) to	the clients requirements. This can					
be customise	ed to show:					
Purchase	order					
 Suppliers 						
• Transport	t					
Completion Data						
Material Data						
 Or any other comment required for the 						
project						
OK Apply Modify	Get ✓ / Cancel					

Class 5 = Shop Detailing Complete





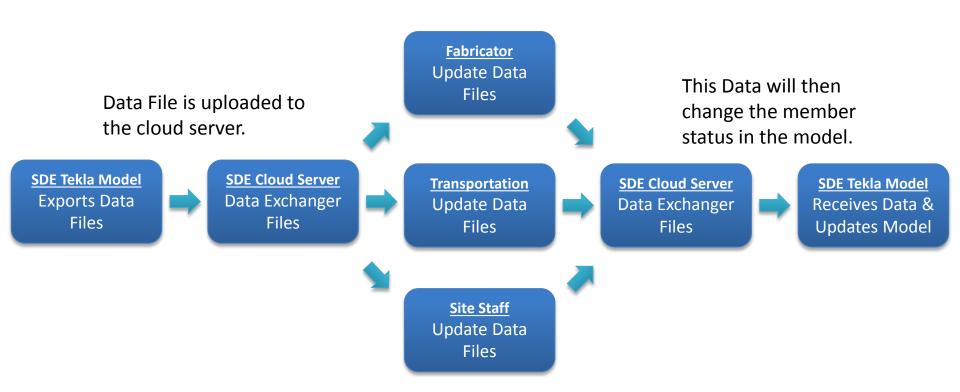
SDE issue shop detailing drawings to fabricators workshop.





The fabrication is now complete





Fabricators, Transportation and Site staff update the model information utilising the Tablet which simultaneously synchronises to the 3D model through the cloud server.







41a Quay St, Sanctuary Cove, QLD, 4212

Phone: 07 55779730

Client: EXAMPLE

Project Number: 8000

Project Name: SDE CONSULTING EXAMPLE

Phase: 17

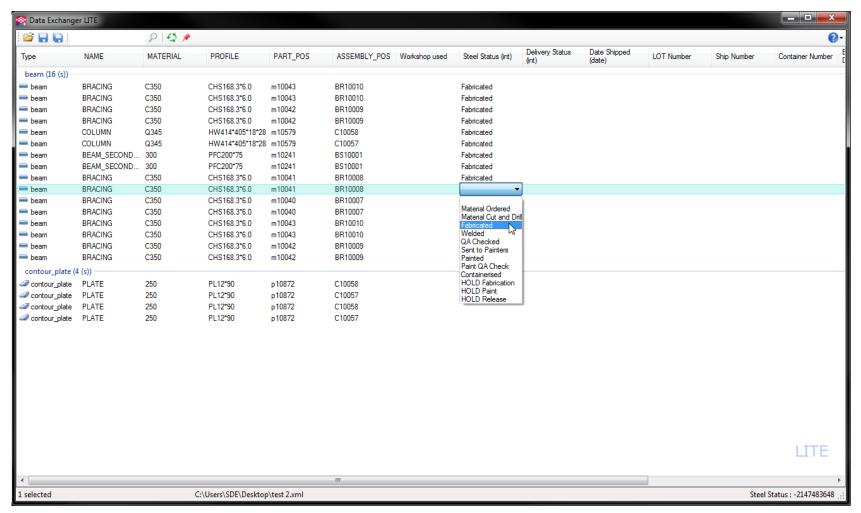
Date: 05.12.2012

Drawing No.	Dwg Rev	Description	Lengt (mm)	Mass (kg)	Main Section	Paint System	Paint Area	Workshop Status
8000-SDE-S-BR1000	REV.0	BRACING	4890	117.5	CHS168.3*6.0	SYSTEM B - Y14 LIGHTBOX GREY N33	2.6	FABRICATED
8000-SDE-S-BR1001	REV.0	BRACING	2341	56.2	CHS168.3*6.0	SYSTEM B - Y14 LIGHTBOX GREY N33	1.2	FABRICATED
8000-SDE-S-BR1001	REV.0	BRACING	2341	56.2	CHS168.3*6.0	SYSTEM B - Y14 LIGHTBOX GREY N33	1.2	FABRICATED
8000-SDE-S-BR1002	REV.0	BRACING	2372	57	CHS168.3*6.0	SYSTEM B - Y14 LIGHTBOX GREY N33	1.3	FABRICATED
8000-SDE-S-BR1002	REV.0	BRACING	2372	57	CHS168.3*6.0	SYSTEM B - Y14 LIGHTBOX GREY N33	1.3	FABRICATED
8000-SDE-S-BR1003	REV.0	BRACING	2382	57.2	CHS168.3*6.0	SYSTEM B - Y14 LIGHTBOX GREY N33	1.3	FABRICATED
8000-SDE-S-BR1003	REV.0	BRACING	2382	57.2	CHS168.3*6.0	SYSTEM B - Y14 LIGHTBOX GREY N33	1.3	FABRICATED
8000-SDE-S-BR1004	REV.0	BRACING	2373	57	CHS168.3*6.0	SYSTEM B - Y14 LIGHTBOX GREY N33	1.3	FABRICATED
8000-SDE-S-BR1004	REV.0	BRACING	2373	57	CHS168.3*6.0	SYSTEM B - Y14 LIGHTBOX GREY N33	1.3	FABRICATED
8000-SDE-S-BR1005	REV.0	BEAM_SECONDARY	3927	90	PFC200*75	SYSTEM B - Y14 LIGHTBOX GREY N33	2.7	QA CHECKED
8000-SDE-S-BR1005	REV.0	BEAM_SECONDARY	3927	90	PFC200*75	SYSTEM B - Y14 LIGHTBOX GREY N33	2.7	QA CHECKED
8000-SDE-S-BR1006	REV.0	COLUMN	9093	2269.6	HW414*405*18*28	SYSTEM B - Y14 LIGHTBOX GREY N33	21.9	PAINTED
8000-SDE-S-BR1006	REV.0	COLUMN	9093	2269.6	HW414*405*18*28	SYSTEM B - Y14 LIGHTBOX GREY N33	21.9	PAINTED

SDE provides custom reports containing unlimited client specific requirements to suit their workshop/transport/site processes and systems.



EXCELLENCE THROUGH TECHNOLOGY



Using a simple drop down box the 'Site fabricator', 'Site staff' or 'Transportation staff' can quickly change the member status. This will then update the model utilising cloud server technology for everyone to see the progress of the job.





The previous process will be completed on the new motion tablets or desktop computers all supplied with current software and technology by SDE.



This will allow workshop/site managers to update the status of the steel on a portable device through the cloud server.





With the help of the tablet no more paper work is required, once data is entered into the mobile Tablet or desktop all models are updated by synchronising through the SDE cloud technology.



