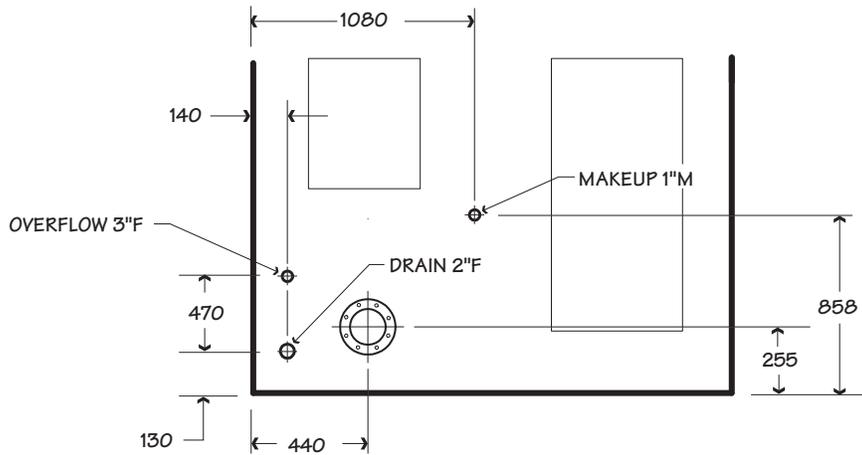


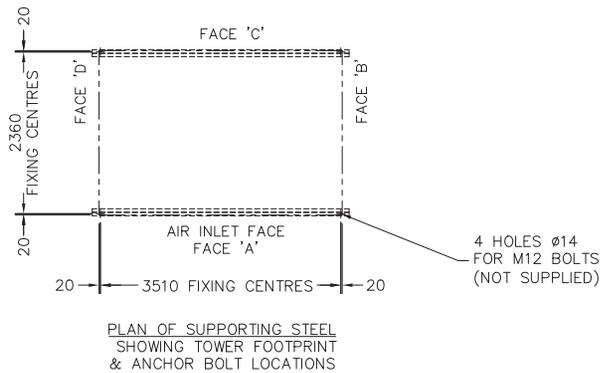
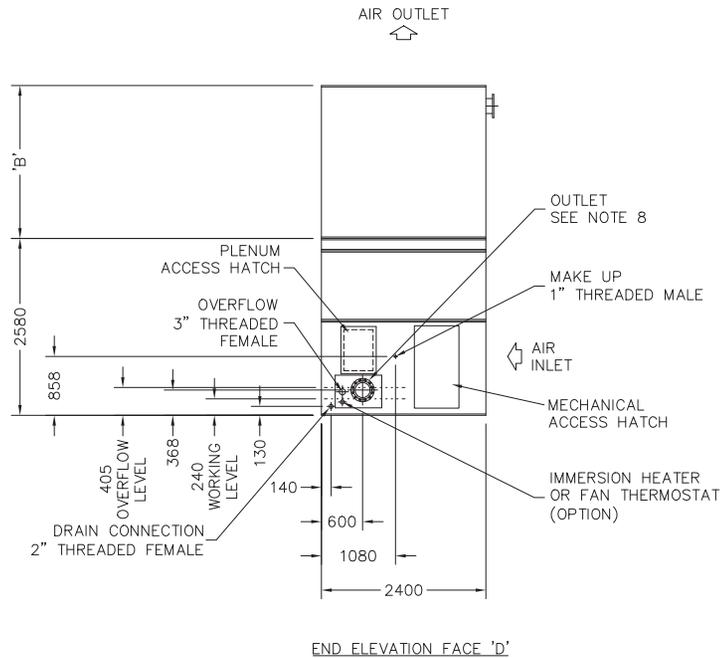
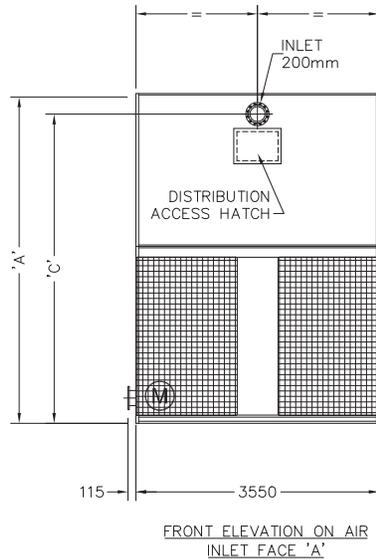
Model note 2	Nominal Tons note 3	Motor hp	Dimensions			Design Operating Weight lb	Shipping Weight lb	
			C	H	Inlet / Outlet dia		Weight/Cell	Heaviest Section
901546M-1	214	25	12'-4 ⁷ / ₁₆ "	13'-4 ¹ / ₄ "	8"	9416	6798	4012
901546N-1	225	30	12'-4 ⁷ / ₁₆ "	13'-4 ¹ / ₄ "	8"			
901547M-1	239	25	13'-9 ³ / ₁₆ "	14'-9 ³ / ₁₆ "	8"			
901547N-1	253	30	13'-9 ³ / ₁₆ "	14'-9 ³ / ₁₆ "	8"			
901548N-1	270	30	13'-9 ³ / ₁₆ "	14'-9 ³ / ₁₆ "	8"			
901548P-1	298	40	13'-9 ³ / ₁₆ "	14'-9 ³ / ₁₆ "	8"			
901549P-1	309	40	14'-9 ³ / ₁₆ "	15'-9 ³ / ₁₆ "	8"			
901556N-1	286	2 x 15	11'-9 ¹ / ₂ "	12'-9 ³ / ₁₆ "	8"	13076	9078	5329
901556P-1	315	2 x 20	12'-4 ⁷ / ₁₆ "	13'-4 ¹ / ₄ "	8"			
901556Q-1	336	2 x 25	12'-4 ⁷ / ₁₆ "	13'-4 ¹ / ₄ "	8"			
901557Q-1	379	2 x 25	13'-9 ³ / ₁₆ "	14'-9 ³ / ₁₆ "	8"			
901557R-1	400	2 x 30	13'-9 ³ / ₁₆ "	14'-9 ³ / ₁₆ "	8"			
901558R-1	429	2 x 30	13'-9 ³ / ₁₆ "	14'-9 ³ / ₁₆ "	8"			



PIPING CONNECTIONS
ALL MODELS

NOTE

- 1 Use this bulletin for preliminary layouts only. Obtain current drawings from your Marley sales representative. All table data is per cell.
- 2 Last numeral of model number indicates number of cells. Change as appropriate for your selection.
- 3 Nominal tons are based upon 95°F HW, 85°F CW, 78°F WB and 3 gpm/ton. The Marley **UPDATE** web-based selection software provides MCW model recommendations based on specific design requirements.
- 4 Standard overflow is a 3" dia. F connection located on the side of the collection basin. Makeup water connection is a 1" dia. M connection located on the side of the collection. Drain is a 2" F connection located on the side of the collection basin.



NOTES

1. GENERAL
AIR INLET FACES MUST HAVE AN ADEQUATE AIR SUPPLY. IF OBSTRUCTIONS EXIST, CONSULT YOUR SPX REPRESENTATIVE.

FABRICATION TOLERANCE IS $\pm 1.5\text{mm}$ & ASSEMBLY TOLERANCE IS $\pm 3\text{mm}$. CONSULT SUPPLIERS OF SUPPORTING STRUCTURE FOR CONSTRUCTION TOLERANCE. ALL DIMENSIONS ARE IN mm & ALL WEIGHTS IN KILOGRAMS UNLESS OTHERWISE NOTED.

2. PIPING
ALL PIPE & FITTINGS TO BE SUPPLIED BY CUSTOMER

PIPEWORK MUST NOT BE SUPPORTED BY THE STRUCTURE.

STATIC LIFT FROM BASE OF TOWER = 'C'. CUSTOMER TO ADD LOSSES FOR DISTRIBUTION NOZZLES, EXTERNAL PIPEWORK & FITTINGS. EXTERNAL PIPEWORK MUST CLEAR THE TOWER SUFFICIENTLY TO PERMIT UNOBSTRUCTED MAINTENANCE ACCESS.

3. WATER LEVELS
THE INITIAL FILL SHOULD NOT EXCEED AN INTERNAL LEVEL OF 280mm. INTERNAL OPERATING LEVEL SHOULD BE MAINTAINED AT LEAST 140mm. TO AVOID WASTAGE, THE EXTERNAL SYSTEM VOLUME SHOULD NOT EXCEED THE DIFFERENCE BETWEEN THE ABOVE TWO LEVELS. IN ORDER TO COMPLY WITH LOCAL WATER SUPPLY AUTHORITY REGULATIONS, THE WATER PRESSURE AT THE MAKE-UP VALVE SHOULD NOT EXCEED 0.6bar, AND THE OVERFLOW CONNECTION SHOULD REMAIN UNRESTRICTED AT ALL TIMES. IF EITHER OF THESE REQUIREMENTS ARE NOT MET, IT IS THE CUSTOMERS RESPONSIBILITY TO ENSURE THEY STILL COMPLY WITH LOCAL REGULATIONS.

4. SUPPORTING STEEL
THE SUPPORTING STEEL IS TO BE DESIGNED, CONSTRUCTED AND FURNISHED BY THE CUSTOMER. IT SHALL INCLUDE CUSTOMER SUPPLIED M12 DIAMETER ANCHOR BOLTS AND WASHERS TO SUIT THE GENERAL DIMENSIONS OF THIS DRAWING. THE TOP SURFACE OF THE SUPPORTING STEEL MUST BE FRAMED FLUSH AND LEVEL. THE MAXIMUM BEAM DEFLECTION SHALL BE LIMITED TO 1/360 OF SPAN, NOT TO EXCEED 13mm AT THE ANCHOR BOLTS.

5. DESIGN OPERATING LOADS
THE DESIGN OPERATING LOADS SHOWN IN THE TABLE ARE BASED UPON THE VOLUME OF WATER IN THE COLLECTION BASIN TO OVERFLOW LEVEL.

6. SHIPPING WEIGHTS AND MAXIMUM OPERATING LOAD VALUES SHOWN IN TABLE DO NOT INCLUDE THE OPTIONAL EQUIPMENT WEIGHTS.

7. REFER TO LIFTING ARRANGEMENT DRAWINGS FOR LIFTING DETAILS.

8. REFER TO CONNECTION ARRANGEMENT DRAWING FOR DETAILS.

9. ALL THREADED CONNECTIONS COMPLY WITH BSP/ISO 7-1 BS EN10226-1

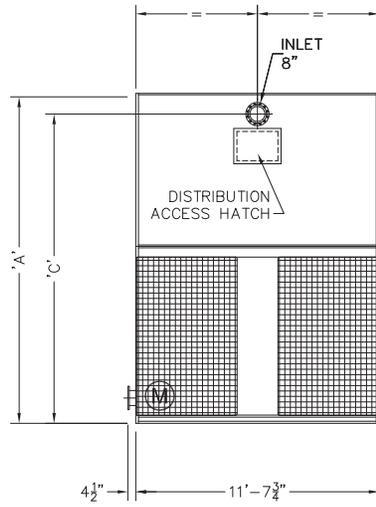
MODEL	A	B	C	MOTOR kW	SHIPPING & OPERATING				
					BASE	TOP	TOTAL	WATER	OPERATING
901546M	4070	1490	3770	18.5	1689	866	2554	1187	3742
901546N	4070	1490	3770	22.0	1689	866	2554	1187	3742
901547M	4500	1920	4200	18.5	1681	1027	2709	1187	3896
901547N	4500	1920	4200	22.0	1681	1027	2709	1187	3896
901548N	4500	1920	4200	22.0	1820	1127	2947	1187	4134
901548P	4500	1920	4200	30.0	1820	1127	2947	1187	4134
901549P	4810	2230	4510	30.0	1820	1264	3084	1187	4271

(M) DENOTES MOTOR POSITION

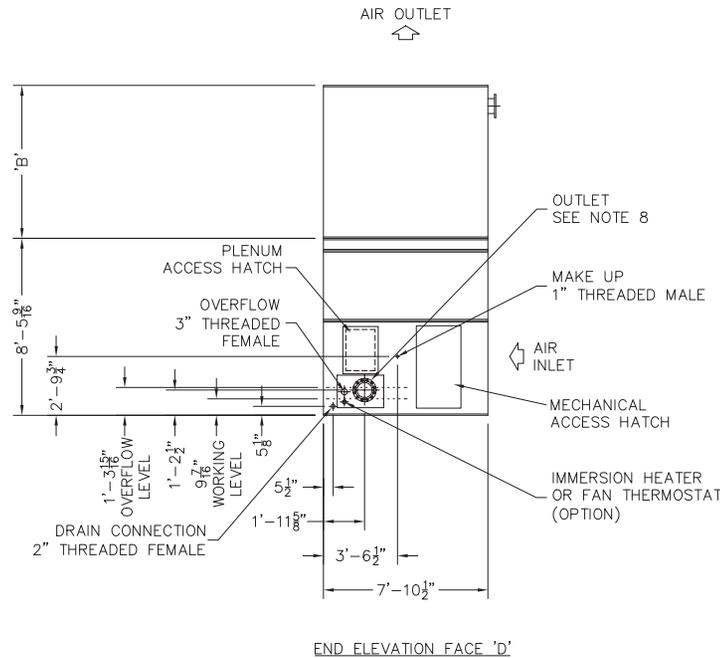
SI Units

ECO NUMBER	GENERAL ARRANGEMENT DRAWING							
REV. BY	CHECKED	SERIES MCW						
MODELS 901546M - 901549P						Böcke Hamon Dry Cooling Marley		
REV. DATE	DRAWN AT	DATE	CHKD	APPD	ORDER NUMBER	PLOT	DRAWING NUMBER	REV
		28-11-06	BG	BG		1=50	G901-54	B

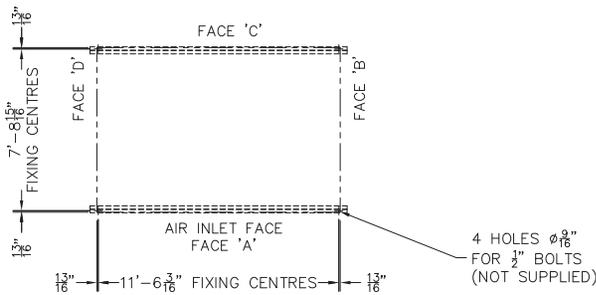
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FRONT ELEVATION ON AIR INLET FACE 'A'



END ELEVATION FACE 'D'



PLAN OF SUPPORTING STEEL SHOWING TOWER FOOTPRINT & ANCHOR BOLT LOCATIONS

4 HOLES $\phi \frac{9}{16}$ " FOR $\frac{3}{4}$ " BOLTS (NOT SUPPLIED)

NOTES

- GENERAL

AIR INLET FACES MUST HAVE AN ADEQUATE AIR SUPPLY. IF OBSTRUCTIONS EXIST, CONSULT YOUR SPX REPRESENTATIVE.

FABRICATION TOLERANCE IS $\pm \frac{1}{16}$ " & ASSEMBLY TOLERANCE IS $\pm \frac{1}{8}$ ". CONSULT SUPPLIERS OF SUPPORTING STRUCTURE FOR CONSTRUCTION TOLERANCE. ALL DIMENSIONS ARE IN INCHES & ALL WEIGHTS IN POUNDS UNLESS OTHERWISE NOTED.
- PIPING

ALL PIPE & FITTINGS TO BE SUPPLIED BY CUSTOMER

PIPEWORK MUST NOT BE SUPPORTED BY THE STRUCTURE.

STATIC LIFT FROM BASE OF TOWER = 'C'. CUSTOMER TO ADD LOSSES FOR DISTRIBUTION NOZZLES, EXTERNAL PIPEWORK & FITTINGS. EXTERNAL PIPEWORK MUST CLEAR THE TOWER SUFFICIENTLY TO PERMIT UNOBSTRUCTED MAINTENANCE ACCESS.
- WATER LEVELS

THE INITIAL FILL SHOULD NOT EXCEED AN INTERNAL LEVEL OF 11". INTERNAL OPERATING LEVEL SHOULD BE MAINTAINED AT LEAST $5\frac{1}{2}$ ". TO AVOID WASTAGE, THE EXTERNAL SYSTEM VOLUME SHOULD NOT EXCEED THE DIFFERENCE BETWEEN THE ABOVE TWO LEVELS. IN ORDER TO COMPLY WITH LOCAL WATER SUPPLY AUTHORITY REGULATIONS, THE WATER PRESSURE AT THE MAKE-UP VALVE SHOULD NOT EXCEED 8.7PSI, AND THE OVERFLOW CONNECTION SHOULD REMAIN UNRESTRICTED AT ALL TIMES. IF EITHER OF THESE REQUIREMENTS ARE NOT MET, IT IS THE CUSTOMERS RESPONSIBILITY TO ENSURE THEY STILL COMPLY WITH LOCAL REGULATIONS.
- SUPPORTING STEEL

THE SUPPORTING STEEL IS TO BE DESIGNED, CONSTRUCTED AND FURNISHED BY THE CUSTOMER. IT SHALL INCLUDE CUSTOMER SUPPLIED $\frac{1}{2}$ " DIAMETER ANCHOR BOLTS AND WASHERS TO SUIT THE GENERAL DIMENSIONS OF THIS DRAWING. THE TOP SURFACE OF THE SUPPORTING STEEL MUST BE FRAMED FLUSH AND LEVEL. THE MAXIMUM BEAM DEFLECTION SHALL BE LIMITED TO 1/360 OF SPAN, NOT TO EXCEED $\frac{1}{2}$ " AT THE ANCHOR BOLTS.
- DESIGN OPERATING LOADS

THE DESIGN OPERATING LOADS SHOWN IN THE TABLE ARE BASED UPON THE VOLUME OF WATER IN THE COLLECTION BASIN TO OVERFLOW LEVEL.
- SHIPPING WEIGHTS AND MAXIMUM OPERATING LOAD VALUES SHOWN IN TABLE DO NOT INCLUDE THE OPTIONAL EQUIPMENT WEIGHTS.
- REFER TO LIFTING ARRANGEMENT DRAWINGS FOR LIFTING DETAILS.
- REFER TO CONNECTION ARRANGEMENT DRAWING FOR DETAILS.
- ALL THREADED CONNECTIONS COMPLY WITH NPT ANSI/ASME B1.20.1

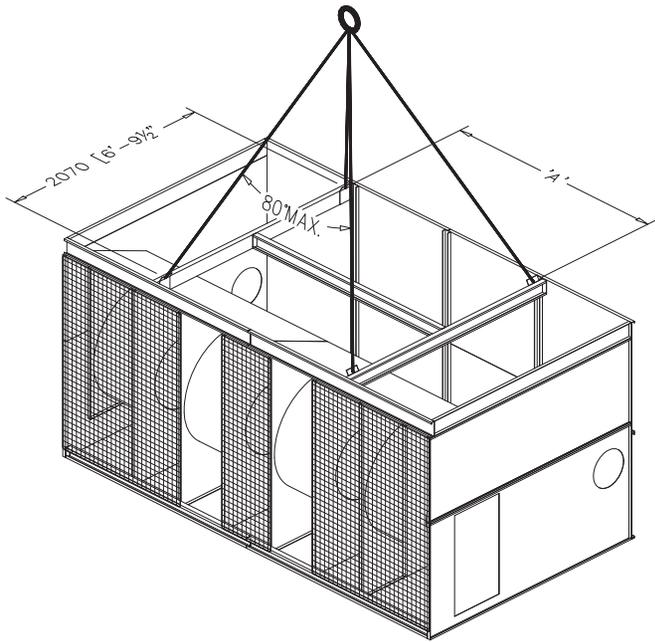
MODEL	A	B	C	MOTOR HP	SHIPPING & OPERATING WEIGHTS (lbs)				
					BASE	TOP	TOTAL	WATER	OPERATING
901546M	13'-4 1/4"	4'-10 11/16"	12'-4 7/16"	25	3723	1908	5631	2618	8249
901546N	13'-4 1/4"	4'-10 11/16"	12'-4 7/16"	30	3723	1908	5631	2618	8249
901547M	14'-9 3/16"	6'-3 9/16"	13'-9 3/8"	25	3707	2265	5972	2618	8589
901547N	14'-9 3/16"	6'-3 9/16"	13'-9 3/8"	30	3707	2265	5972	2618	8589
901548N	14'-9 3/16"	6'-3 9/16"	13'-9 3/8"	30	4012	2485	6497	2618	9115
901548P	14'-9 3/16"	6'-3 9/16"	13'-9 3/8"	40	4012	2485	6497	2618	9115
901549P	15'-9 3/8"	7'-3 13/16"	14'-9 9/16"	40	4012	2786	6798	2618	9416

(M) DENOTES MOTOR POSITION

I-P Units

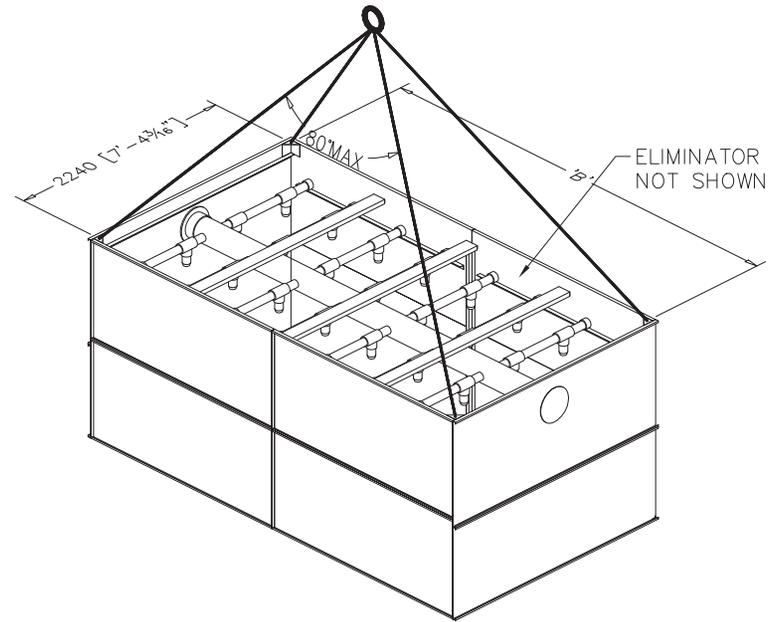
ECO NUMBER		GENERAL ARRANGEMENT DRAWING							
REV. BY		SERIES MCW							
CHECKED		MODELS 901546M - 901549P					Backe Hamon Dry Cooling Morley		
REV. DATE	DRAWN AT	DATE	CHKD	APPD	ORDER NUMBER	PLOT	DRAWING NUMBER	REV	
		28-11-06	BG	BG		1=50	G901-54	B	

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BASE SECTION
ATTACHMENT: 4 x $\phi 1\frac{1}{4}$ " LIFTING EYES

MODEL	A	WEIGHT (lb)
901546X	4'-1 1/4"	3723
901547X	4'-1 1/4"	3707
901548X	4'-1 1/4"	4012
901549X	4'-1 1/4"	4012
901556X	10'-1 1/4"	5154
901557X	10'-1 1/4"	5329
901558X	10'-1 1/4"	5329



TOP SECTION
ATTACHMENT: 4 x $\frac{5}{8}$ " EYEBOLTS (DETACHABLE)

MODEL	B	WEIGHT (lb)
901546X	11'-1 1/2"	1908
901547X	11'-1 1/2"	2265
901548X	11'-1 1/2"	2485
901549X	11'-1 1/2"	2786
901556X	17'-1 1/2"	2915
901557X	17'-1 1/2"	3429
901558X	17'-1 1/2"	3749

IMPORTANT

1. CUSTOMER TO ENSURE THAT ALL LIFTING EQUIPMENT COMPLIES WITH LOCAL & NATIONAL SAFETY REGULATIONS.
2. AREA TO BE CLEARED OF NON-ESSENTIAL PERSONNEL BEFORE LIFTING COMMENCES.
3. DO NOT ATTEMPT LIFTING IN ADVERSE WIND OR WEATHER CONDITIONS
4. DAMAGE TO PERSONNEL, PLANT OR EQUIPMENT RESULTING FROM THE FAILURE TO OBSERVE THESE GUIDELINES IS THE THE RESPONSIBILITY OF THE CONTRACTOR.
5. SPREADER BARS MUST BE USED UNLESS CHAINS OF A SUITABLE LENGTH ARE UTILISED.

I-P Units

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ECO NUMBER		LIFTING ARRANGEMENT DRAWING					 Balcke Hamon Dry Cooling Marley	
REV. BY	CHECKED	SERIES MCW						
		MODELS 901546M - 901558R						
REV. DATE	DRAWN	DATE	CHKD	APPD	ORDER NUMBER	PLOT	DRAWING NUMBER	REV
	NL	08.12.06	BG	BG		1=1	G901-5XLA	B