

Planting Schedule

SPECIES	COMMON NAME	HEIGHT (CM)	ROOT	SPACING	NUMBER REQUIRED
Berberis thunbergii atropurpurea 'Nana'	Dwarf Berberis	20-30cm	3L C	450mm c/s	210
Ceanothus 'Blue Mound'	California Lilac	30-40cm	3L C	600mm / 750mm c/s *	250
Ceanothus thyrsiflorus repens	Creeping Blue Blossom	30-40cm	3L C	600mm c/s	375
Choisya ternata	Mexican Orange Blossom	40-60cm	3L C	600mm / 750mm c/s *	172
Cornus alba 'Sibirica'	Red Barked Dogwood	40-60cm	3L C	750mm / 1000mm c/s *	150
Cornus stolonifera 'Flaviramea'	Yellow Barked Dogwood	60-80cm	3L C	750mm / 1000mm c/s *	160
Cotinus x dummerii 'Grace'	Smoke Tree	30-40cm	3L C	600mm / 750mm c/s *	315
Coloneaster simonii	Coloneaster	40-60cm	3L C	750mm c/s	242
Festuca Glauca	Blue Fescue		2L C	500mm c/s	265
Hebe albicans	Hebe	20-30cm	2L C	500mm c/s	362
Lavandula angustifolia 'Hidcote'	Lavander	15-20cm	2L C	450mm / 500mm c/s *	401
Lonicera nitida 'May Green'	Shrub Honeysuckle	30-40cm	3L C	500mm c/s	770
Mentha x gentilis 'Variegata'	Variegated Mint		0.5L C	450mm c/s	140
Philadelphus coronarius 'Aureus'	Mock Orange	30-40cm	3L C	600mm / 750mm c/s *	282
Potentilla fruticosa 'Gold Finger'	Potentilla	20-30cm	3L C	500mm c/s	180
Prunus laurocerasus 'Otto Luyken'	Cherry laurel	60-80cm	3L C	600mm / 750mm c/s *	631
Rosmarinus officinalis	Rosemary	30-40cm	2L C	500mm / 600mm c/s *	220
Salix rosmarinifolia	Willow	40-60cm	3L C	600mm / 750mm c/s *	345
Salix viminalis	Common Willow	80-100cm	Bareroot	200mm c/s	200
Salvia officinalis	Sage		0.5L C	450mm c/s	275
Thymus carnosus	Thyme		0.5L C	450mm c/s	175

Species	Common Name	Height (cm)	Root	Spacing	Number Required
Amelanchier canadensis	Snowy Mesquit	60-80cm	3L C	Specimen	20
Arundinaria anceps	Anceps Bamboo	60-80cm	3L C	Specimen	11
Hamamelis mollis	Chinese Witch Hazel	60-80cm	Rootball	Specimen	14
Laurus nobilis	Bay Laurel	30-40cm	3L C	Specimen	8
Phormium tenax	New Zealand Flax	40-60cm	3L C	Specimen	14
Syringa 'Katherine Havemeyer'	Lilac	60-80cm	Rootball	Specimen	15

Species	Common Name	Supply Size	Age	Height (cm)	Girth (cm)	Number Required
Betula pendula	Common Silver Birch	Selected Standard	2x	300-350	10-12	8
Betula utilis var. jacquemontii	West Himalayan Birch	Selected Standard	2x	300-350	10-12	15
Carpinus betula	Hornbeam	Selected Standard	2x	300-350	10-12	22
Fraxinus excelsior	Common Ash	Selected Standard	2x	300-350	10-12	14
Liriodendron tulipifera	Tulip Tree	Selected Standard	2x	300-350	10-12	6
Prunus cerasus 'Morello'	Cherry	Standard	2x	250-300	8-10	8
Quercus robur	English Oak	Selected Standard	2x	300-350	10-12	9
<b>Orchard Trees</b>						
Corylus avellana	Hazel	Standard	2x	250-300	8-10	3
Malus 'Golden Hornet'	Crab Apple	Standard	2x	250-300	8-10	6
Malus 'Rudolf'	Crab Apple	Standard	2x	250-300	8-10	3
Prunus avium	Bird Cherry	Standard	2x	250-300	8-10	6
Sorbus aucuparia 'Sheerwater Seedling'	Rowan	Standard	2x	250-300	8-10	6

Shrubs	Common Name	Supply Size	Age	% Mix	Notes
Corylus avellana	Hazel Nut	Whip	1 + 2	10%	Shrubs to be planted at 450mm centres in a double staggered row.
Crataegus monogyna	Hawthorn	Whip	1 + 2	25%	Plant Crataegus in blocks of a minimum of 5m in length with other species interspersed in groups of 5-7.
Ilex aquifolium	Holly	Whip	1 + 2	10%	
Rosa spinosa	Blackthorn	Whip	1 + 2	10%	
Prunus canina	Dog Rose	Whip	1 + 2	10%	
Viburnum opulus	Gelder Rose	Whip	1 + 2	10%	
<b>Trees</b>					
Alnus glutinosa	Common Alder	Feathered	2x	5%	Trees to be planted at random intervals within the hedgerow. All trees to be protected with TUBEX standard tree shelters.
Betula pendula	Common Silver Birch	Feathered	2x	5%	
Fraxinus excelsior	Common Ash	Feathered	2x	5%	
Pinus sylvestris	Scots Pine	Feathered	2x	5%	
Quercus robur	English Oak	Feathered	2x	5%	

Shrubs	Common Name	Supply Size	Age	% Mix	Notes
Buddleia davidii	Butterfly Bush	Whip	1 + 2	10%	Shrubs to be planted at 700mm centres. Plant species in groups of no less than 15 and no more than 25.
Cornus sanguinea	Common Dogwood	Whip	1 + 2	10%	
Corylus avellana	Hazel Nut	Whip	1 + 2	10%	
Ilex aquifolium	Holly	Whip	1 + 2	10%	
Salix caprea	Goat Willow	Cutting	0 + 1	10%	
Salix lanata	Woolly Willow	Cutting	0 + 1	10%	
Viburnum opulus	Gelder Rose	Whip	1 + 2	15%	
<b>Trees</b>					
Alnus glutinosa	Common Alder	Feathered	2x	5%	Trees to be planted at 1500mm centres. Plant species in groups of no less than 3 and no more than 7.
Betula pendula	Common Silver Birch	Transplant	1 + 2	10%	
Fagus sylvatica	Common Beech	Transplant	1 + 2	10%	
Prunus avium	Wild Cherry	Transplant	1 + 2	5%	
Quercus robur	English Oak	Transplant	1 + 2	5%	

SPECIES	COMMON NAME	HEIGHT (CM)	ROOT	SPACING	NUMBER REQUIRED
Pyraantha 'Red Cushion'	Firethorn	40-60cm	3L C	600mm c/s	1220

\* Planting density as shown on drawings 5041855 / LA / 4906 and 4907

**Multipurpose Informal Play and Sports Pitches**  
 Informal soft play and sport pitch areas to be seeded with British Seed Houses Ltd Olympic Sports Grounds Mix (A7), Sowing rate: 35g/msq. Cutting Height: Down to 10mm  
 Species: 30% Aberimp 25% Olvia 15% Eva  
 25% Aberif 5% Highland

**Neutral Grassland - Hay & Wildflower Meadow**  
 Grass areas to be seeded with British Seed Houses Ltd Custom Mix  
 Sowing rate: to manufacturer's recommendation  
 Species: Agrostis capillaries Centaurea nigra Centaurea spp Caucis carota spp carota Dipsacus folium Festuca ovina  
 Festuca rubra Helianthemum nummularium Hippocrepis comosa Holcus lanatus Ranunculus acris Trifolium spp  
 Lotus pedunculatus Medicago sativa ssp sativa Narcissus spp  
 Mix also to contain 5% Spring Bulbs: Crocus spp Galanthus nivalis Narcissus spp Primula veris Primula vulgaris

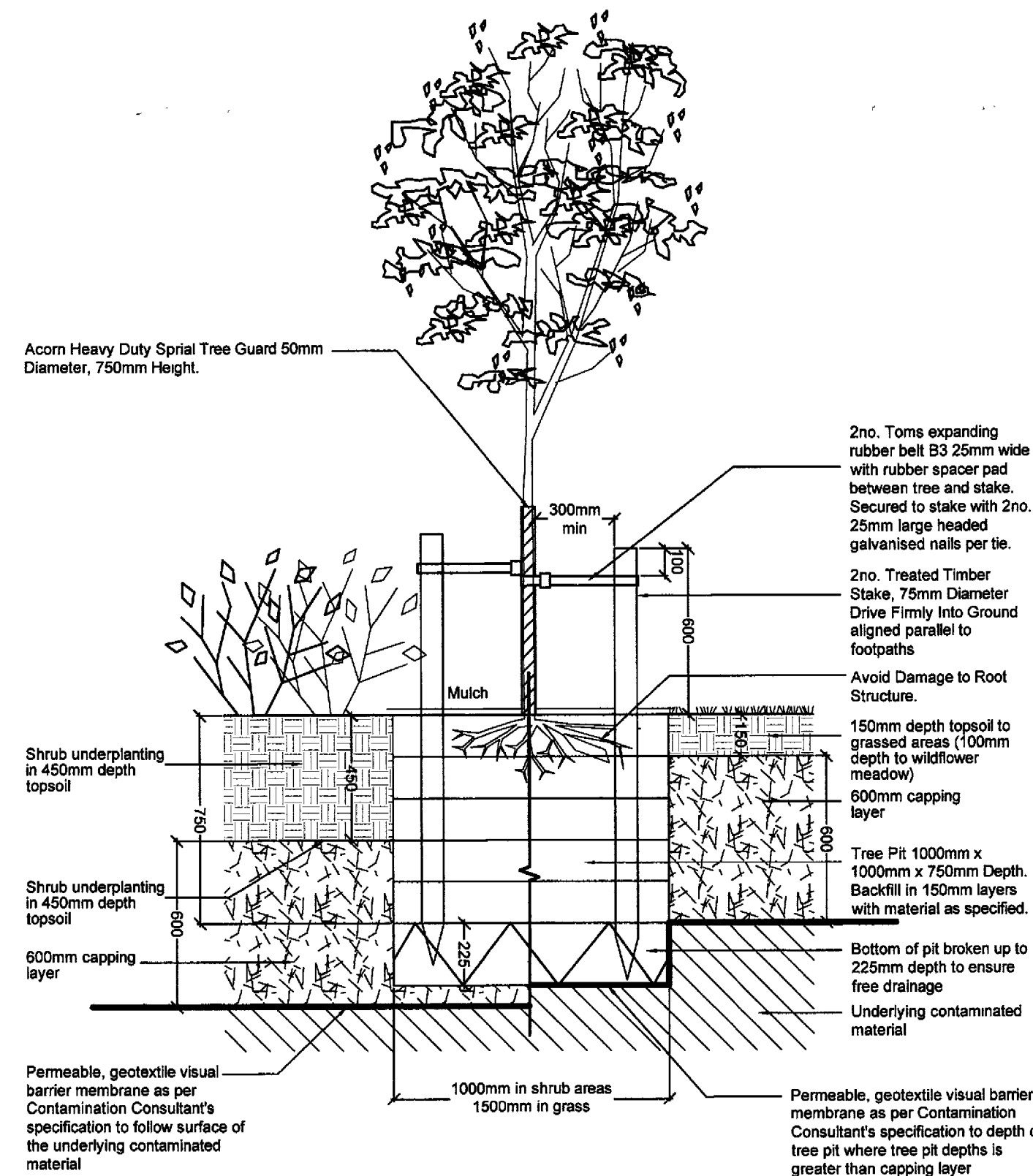
Aquatic Planting Schedule

Species	Common Name	Container	Spacing	% Mix	Notes
Carex elata 'Aurea' (Bowles Golden)	Golden Pond Sedge	9cm	500mm c/s	10	Plant species in groups of no less than 5 No. and no more than 15 No. plants
Eriophorum angustifolia	Common Cottongrass	9cm	500mm c/s	15	
Iris sibirica 'White Swirl'	Siberian Flag	9cm	500mm c/s	10	
Juncus effusus	Soft Rush	9cm	500mm c/s	25	
Rumex hydrolapathum	Water Dock	9cm	500mm c/s	25	
Typha minima	Dwarf Reedmace	9cm	500mm c/s	15	

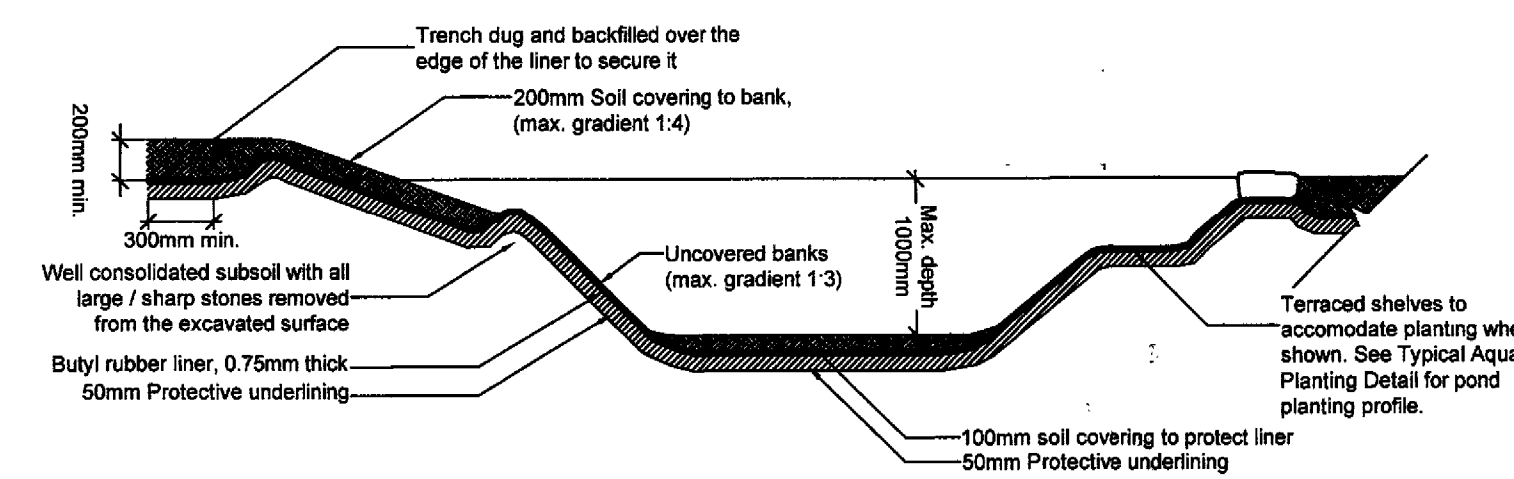
Species	Common Name	Container	Spacing	% Mix	Notes
Nymphaea alba	White Water Lily	11cm Pot	1000mm c/s	30	Plant species in groups of no less than 5 No. and no more than 15 No. plants
Phalaris arundinacea	Reed Canary Grass	5cm Pot	1000mm c/s	35	
Sparganium erectum	Upright Bur-Reed	7cm Pot	1000mm c/s	35	

Condition Of Planting Stock

The Condition Of All Proposed Planting Stock Is To Be In Accordance With Bs 3936:1992 And Bs 5236  
 All Rootballed Trees Are To Be Planted Between Mid-october And Early April. Outside Of This Period, All Rootballed Trees Are To Be Replaced With Containerised Stock.  
 All Woodland Trees And Shrubs To Be Of Local Provenance Stock. Maintain As Bare Ground Under Until Canopy Closure Is Achieved  
 All Grass Seed And Wild Flower Mixtures To Be Of Local Provenance Stock.

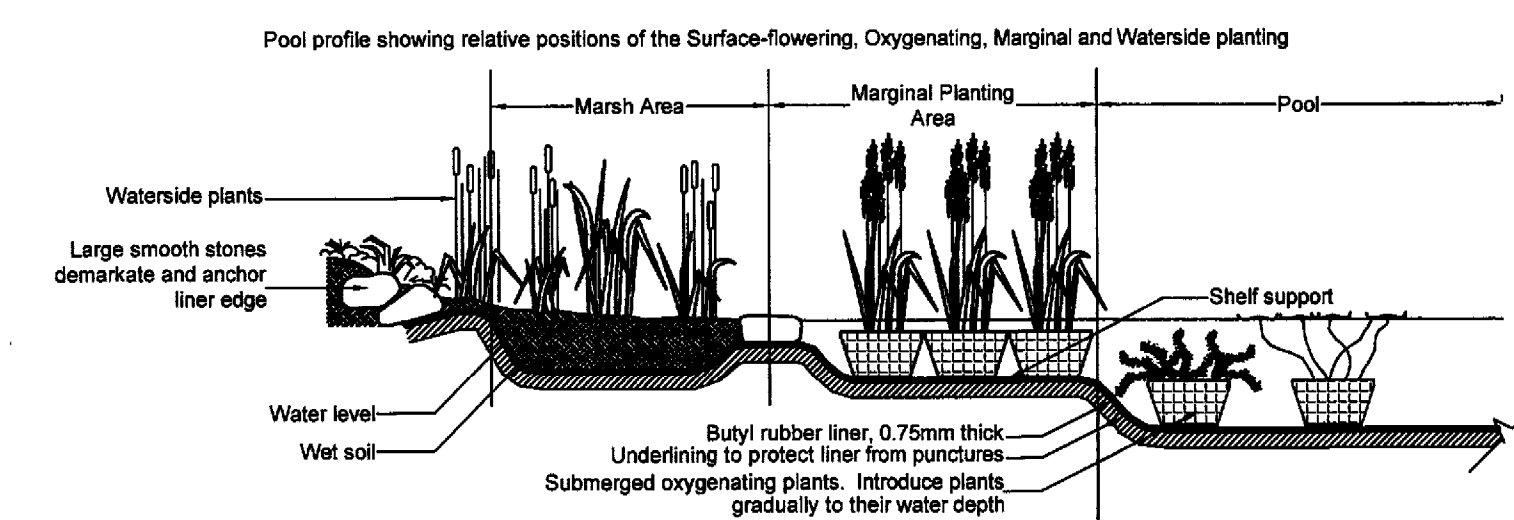


Double Stake Tree Planting for Selected Standard Trees  
 Scale 1:20



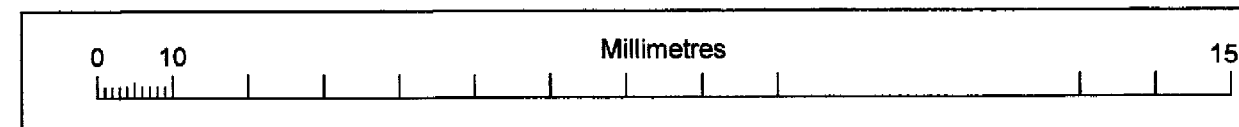
- Notes:
- Excavate for the pond, removing large stones, backfilling all holes and hollows, and compacting the base and sides.
  - Banks to be to a minimum depth of 300mm and should be gently sloping at a gradient of 1:3 in order to take soil cover.
  - 50mm sand spread over the surface of the excavation to protect the liner from puncture.
  - Dig a trench 300mm wide and 200mm deep along the bank, just above the intended top water level. Lay the edge of the liner in the trench and secure it firmly by backfilling with earth.
  - Lay the butyl rubber liner. This is to be made up to the correct size in advance.
  - A 100mm protective layer of soil or sand should be spread over the whole of the bottom of the pool; a 200mm protective layer should be cover all banks with a gradient less than 1:3.

Typical Pond Construction Profile  
 N.T.S



- Notes:
- Plant ponds during the growing season, late April to early September.
  - Allow new water in the pond to stand for a few days so that toxic chemicals can disperse before introducing plants.
  - Depth measurements are taken from the water surface to the surface of the soil in the pond.
  - Marginal species planted into wet soil in up to 150mm depth of water. The planting rate should be one plant per 500mm of water.
  - Deep marginal species planted in 75-450mm depth of water. The planting rate should be one plant per 1400mm square of water.
  - Floating plants should be placed into the water. The planting rate should be one plant per 1000mm square of water.
  - Oxygenating species planted in 300-1200mm depth of water. The planting rate should be one bunch per 180mm square of water.

Typical Aquatic Planting: Relative Pond Profile and Planting Areas  
 N.T.S



DO NOT SCALE

ATKINS

This 'As Built' drawing has been produced based on information provided by Norwest Holst Construction Ltd

Rev.	Description	By	Date	CHK	Auth
I	AS BUILT ISSUE		28/10/09	NR	NR
H	Detergent ground cover planting added to Charmwood Underpass as per Contractor's instruction, planting omitted from car park island		30/06/09	NR	NR
F	Orchard tree species amended as per the Client's requirements		19/03/09	NR	NR
E	Issued for planning approval of revised planting species and densities		06/03/09	MD	MD
D	Visual barrier membrane to underlying contaminated material added to tree pit detail as per White Young Green's specification		17/02/09	MD	MD
C	Planting densities to shrub beds reduced in accordance with contractor's requirements		22/12/08	MD	MD
B	Willow screen planting to teaching pods added to schedule. Planting quantities amended to proposed equipment store.		14/11/08	NR	NR

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NORWEST HOLST

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Project  
 Giebelands Development  
 St Julians  
 Newport

Title  
 Glan Usk School  
 AS BUILT  
 Planting Details and Schedule

Original Scale	Drawn	Checked	Authorised
Var.	AHL	NR	NR
Date	08/10/09	Date	09/10/09
Date	08/10/09	Date	08/10/09
Rev	1		

Drawing Number  
 5041855 / LA / 4908