

### LYTHAM GREEN DRIVE GOLF CLUB

For

Booth Ventures Ltd / Lytham Green Drive Golf Club

# **BIODIVERSITY NET GAIN ASSESSMENT**

Feb 2024

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#### 1.0 INTRODUCTION

#### 1.1 BACKGROUND

Appletons have been commissioned by Booths Ventures Limited to undertake an Biodiversity Net Gain assessment (BNG) of land at Lytham Green Drive Golf Club, Lytham, Lancashire. The assessment is required to determine whether proposals meet the statutory requirements for biodiversity enhancements following completion of the scheme. The assessment is done using the Preliminary Ecological Appraisal which includes an condition assessment of the sites current habitats.

#### 1.2 SITE LOCATION

Lytham Green Drive Golf Club is located to the immediate north of Lytham town centre. The red line boundary for the development is located in the northeast corner of the golf course grounds, off Saltcotes Road. The sites National Grid Reference is NGR: SD 3754 2857. The application boundary of the site is provided in Figure 1 below. Habitats identified within the site are provided in Appendix A.

#### 1.3 BACKGROUND

This report provides the results of the BNG Assessment for the proposed redevelopment at Lytham Green Drive Golf Club. The information provided within this report should be read in conjunction with the following documents:

- 1. Preliminary Ecological Appraisal: Lytham Green Golf Club, Lytham, Lancashire
- 2. Landscape Scheme (Drawing No: 2419\_03)
- 3. Lytham Green Golf Club Statutory\_Biodiversity\_Metric\_Calculation Tool macro-enabled
- 4. Lytham Green Golf Club BM 4.0 Technical Annex 1- Condition Assessment Sheets

#### 2.0 BIODIVERSITY NET GAIN RESULTS

The biodiversity calculation concluded that the current proposal would result in a biodiversity net gain. The proposals include notable habitat and hedgerow unit gains. All habitat trading rules have been satisfied.

#### Habitat BNG Results

The current proposal would result in a +16.92 habitat units / 105.1% net gain. A summary of the habitat calculations are provided in Tables 2.1 and 2.2 below. Refer also to Appendix A, Figures 1 and 2.

#### Table 2.1: Habitat baseline calculations

Habitat	Habitat Area (ha)	Habitat Unit Value	Area Retained (ha)	Area Enhanced (ha)	Habitat Unit Loss
Modified grassland	4	8.80	0	0	8.80
Other neutral grassland	0.9923	4.37	0	0	4.37
Tall forbs	0.2559	0.56	0	0	0.56
Other woodland; mixed	0.0596	0.26	0.0248	0	0.15
Willow scrub	0.0918	0.40	0	0	0.40
Mixed scrub	0.1213	0.53	0	0	0.53
Bramble scrub	0.0247	0.11	0	0	0.11
Ponds (non-priority habitat)	0.1117	0.98	0.1117	0	0.00
Introduced shrub	0.0369	0.08	0	0	0.08
Artificial unvegetated, unsealed surface	0.0343	0	0	0	0.00
TOTAL	5.73	16.1	0.14		15.01

#### Table 2.2: Proposed on site habitats

Habitat	Area (Ha)	Distinctivene ss	Condition	Strategic Significance	Standard Time to Target Condition (Years)	Habitat Units Delivered	Assessment Comments
Modified grassland	1.8397	Low	Poor	Location ecologically desirable but	1	3.91	Areas of closely mown fairway, semi-rough and tee boxes which will be frequently cut to maintain short sward. Species poor grassland
Other neutral grassland	3.571	Medium	Moderate	<ul> <li>not in local strategy</li> </ul>	5	26.30	Area of rough grassland which will be sown with species rich meadow mix. Subject to two cuts annually. Cuttings to be removed. Managed as a meadow to achieve species rich sward.
Mixed scrub	0.15	Medium	Moderate		5	1.10	Area of native mixed scrub behind tee box which could include: hawthorn, holly, silver birch, hazel, willow species, dog rose.
Other woodland; broadleaved	0.03	Medium	Moderate		15	0.15	Woodland edge planted up along north and east boundary of site.
Urban tree	0.14	Medium	Moderate		27	0.47	35no. Individual trees along eastern side of rough. These will be native species e.g.: field maple, alder, silver birch, cherry, oak.
TOTAL	5.73					31.93	

#### Hedgerow BNG Results

The proposals will include the removal of a 20m length of predominantly Leyland cypress, with small hazel specimen. As part of the proposals, a 15m length species rich native hedgerow will be planted along the southern boundary, behind the new tee box (refer to Appendix A, Figure 2). Species to be included within the new hedge will include; hawthorn, holly, hazel, and dog rose. The hedgerow proposals would result in a +0.01 habitat units / 25.52 % net gain.

#### 3.0 BNG CONCLUSION

The proposals provide a measurable net gain overall and all habitat trading rules have been satisfied. The headline results taken from the BNG assessment (Pennine Ecological, 2024b), can be found below.

	Habitat units	16.10	
On-site baseline	Hedgerow units	0.04	
	Watercourse units	0.00	
	Habitat units	33.04	
On-site post-intervention	Hedgerow units	0.05	
(Including habitat retention, creation & enhancement)	Watercourse units	0.00	
On eite wet elsener	Habitat units	16.94	105.21%
On-site net change	Hedgerow units	0.01	25.52%
(units & percentage)	Watercourse units	0.00	0.00%
	Habitat units	0.00	
Off-site baseline	Hedgerow units	0.00	
	Watercourse units	0.00	
	Habitat units	0.00	
Off-site post-intervention	Hedgerow units	0.00	
(Including habitat retention, creation & enhancement)	Watercourse units	0.00	
	Habitat units	0.00	0.00%
Off-site net change	Hedgerow units	0.00	0.00%
(units & percentage)	Watercourse units	0.00	0.00%
	_		
Combined not unit change	Habitat units	16.94	
Combined net unit change (Including all on-site & off-site habitat retention, creation & enhancement)	Hedgerow units	0.01	
(including all on-site & oil-site nabital retention, creation & enhancement)	Watercourse units	0.00	
	Habitat units	0.00	
Creatial ministruction (CDM) also de strange	Hedgerow units	0.00	
Spatial risk multiplier (SRM) deductions			

FINAL RESULTS				
Wetel met weit ehen me	Habitat units	16.94		
Total net unit change	Hedgerow units	0.01		
(Including all on-site & off-site habitat retention, creation & enhancement)	Watercourse units	0.00		
	Habitat units	105.21%		
Including all on-site & off-site habitat retention, creation & enhancement)	Hedgerow units	25.52%		
(including all on-site $\alpha$ on-site habitat retention, creation $\alpha$ enhancement)	Watercourse units	0.00%		
Trading rules satisfied? Yes 🗸				

Unit Type	Target	Baseline Units	Units Required	Unit Deficit	
Habitat units	10.00%	16.10	17.71	0.00	No additional area habitat units required to meet target 🗸
Hedgerow units	10.00%	0.04	0.04	0.00	No additional hedgerow units required to meet target 🗸
Watercourse units	10.00%	0.00	0.00	0.00	No additional watercourse units required to meet target $\checkmark$

To ensure the proposal achieves the specified BNG, a Habitat Management and Monitoring Plan (HMMP) should be provided, to ensure the created habitats achieve their stated target condition. The HMMP should be included as a planning condition and completed prior to the commencement of any construction activities.

#### REFERENCES

Appletons (2024). Lytham Green Drive Golf Club: Landscape Scheme (Drawing No: 2419\_03).

Baker, J. Hoskin, R. Butterworth, T. (2019). *Biodiversity Net Gain. Good practice principles for development. Part A: A practical guide.* 

Department for Environment, Food & Rural Affairs (DEFRA) (2023) - *The Statutory Biodiversity Metric: User Guide (draft)*. Date: February 2024.

Preliminary Ecological Appraisal: Lytham Green Drive Golf Club, Lytham, Lancashire.

Lytham Green Drive Golf Club – Statutory\_Biodiversity\_Metric\_Calculation Tool - macro-enabled

Lytham Green Drive Golf Club - BM 4.0 - Technical Annex 1- Condition Assessment Sheets

UKHab Ltd (2023). UK Habitat Classification Version 2.0 (at https://ukhab.org/)

## **Appendix A: Figures**

Figure 1: Existing Habitat Plan



# LYTHAM GREEN DRIVE GOLF CLUB Landscape Proposals Plan

LANDSCAPE SPECIFICATION NOTES FOR PREPARATION AND PLANTING (Generally to BS 4428:1989 - General Landscape Operations; excluding hardworks) General:

- Site preparation for Soils: Where required all existing topsoil and subsoil shall be stripped and stored separately on site. Heaps must not exceed 3m in height and should be used within 12 months in accordance with BS 4425 (Code of practice for general landscape operations).
- · Soil Preparation: Where soil is to be retained, relatively undisturbed and where new planting vegetation on site is taking place, then compaction shall be avoided and pH testing carried out for specific species suitability, and may require addition of biochar, compost, organic fertiliser and/ or native soil.

#### Grass Seeding

- All areas to receive shall be clear of debris and the like.
- All areas to receive grass seed shall be cultivated and brought to a fine tilth by raking and harrowing within the top 25mm. All debris, including stones of 25mm or over, brought to the surface shall be removed off site.
- Areas of amenity grass seed mix shall receive a suitable fertiliser, seven to ten days prior to seeding. Wild flower/grass seed mix shall not receive any fertiliser.
- The specified seed mix shall be sown at the supplier's recommended rate (between 5 and 35 grams per m2). The quantities of seed shall be divided in half, and sown evenly in transverse directions. The seed shall not be drilled. After sowing the seed shall be lightly harrowed or hand raked into the immediate surface and lightly rolled.
- · Areas of amenity grass seed mix shall receive a pre-emergent herbicide applied immediately after seeding.
- When amenity grass mix is 100mm high it shall be lightly tipped by approximately 25mm with an approved mower.

#### · Any areas which fail to germinate shall be re-cultivated and re-seeded, within one month of the original seeding.

• Areas of broad leaved weeds shall be cleared by either hand pulling or spot treatment using a selective broadleaf herbicide.

#### Trees:

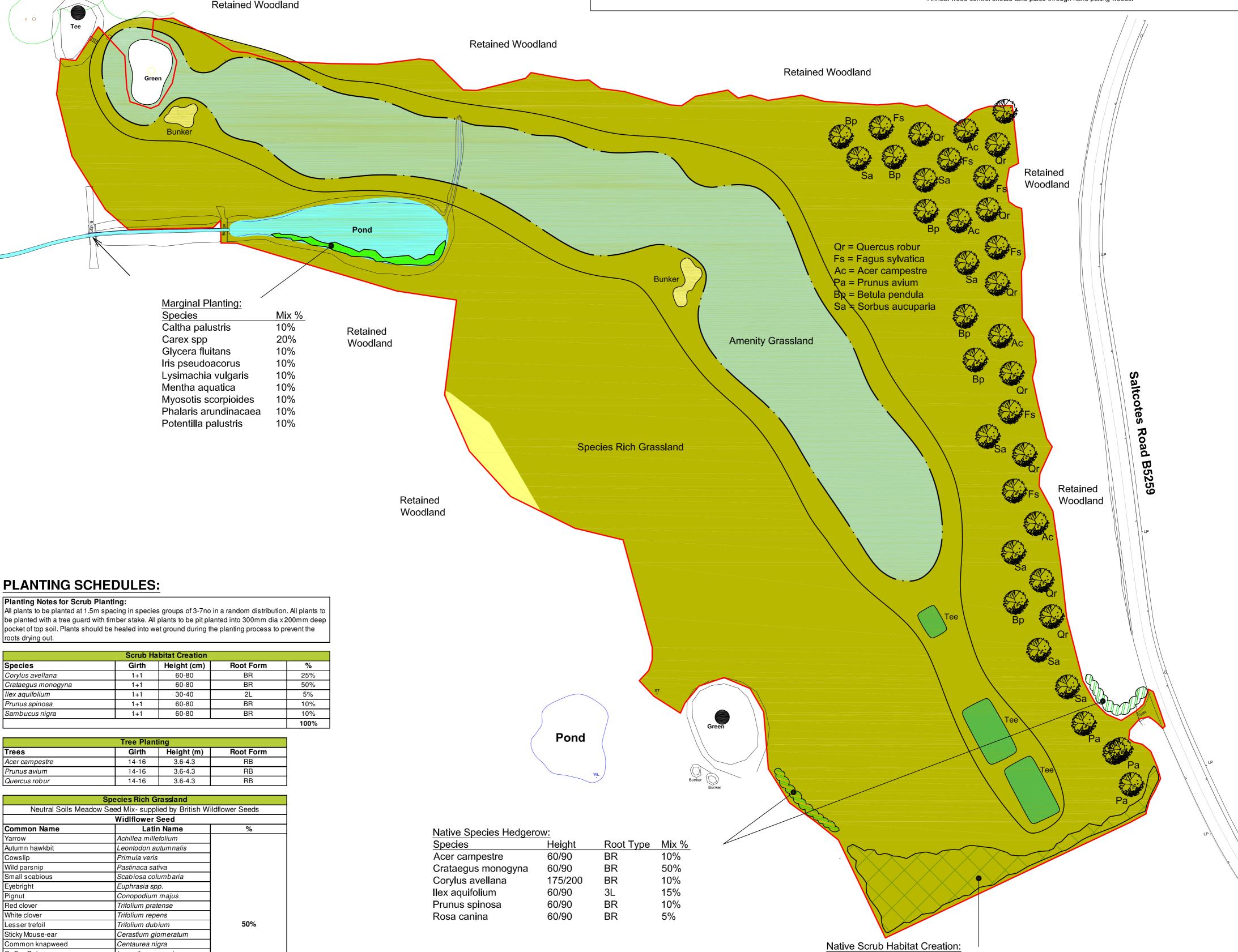
All trees to be supplied and planted in accordance with British Standards BS 8545:2014, with the nursery providers demonstrating Plant Healthy Certification and/ or an adopted biosecurity policy.

#### Whips and Transplants

- All whips and transplants shall be supplied and installed with 80mm diameter biodegradable tree guards to transplants with no plastic materials, fixed into ground with pegs. Do not apply to feathered stock.
- All conifers and holly species shall be supplied & installed with 250mm diameter fine mesh guard with 2 no. stakes.
- All stock shall be notch planted with the exception of feathered stock and holly species which shall be pit planted.

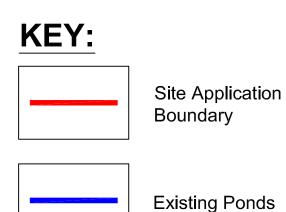
### Wildflower Seeding: Species Rich Grassland Mix:

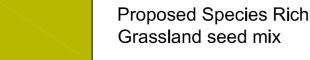
- Proposed wildflower grass seed mix, supplied by British Wildflower Seeds with 50% wildflower and 50% grasses.
- To be spread at 4g per m<sup>2</sup>.
- On going maintenance, the wildflower area should be cut once per year, avoiding spring and early summer and autumn.
- Cut vegetation should be removed from the area.
- Meadow should be cut down to 40-60mm above ground level.
- Annual weed control should take place through hand pulling weeds.



Ox Eye Daisy	Leuanthemum vulgare	
Black medic	Medicago lupulina	
Ribwort plantain	Plantago lanceolata	
Hoary plantain	Plantago media	
Selfheal	Prunella vulgaris	
Meadow buttercup	Ranunculus acris	
Yellow rattle	Rhinanthus minor	
	Grasses	
Common bent	Agrostis capillaris	
Meadow foxtail	Aloperceris pratensis	
Crested dog's tail	Cynosurus cristatus	
Cocksfoot	Dactylis glomerata	
Fescue sp	Fescue sp.	50%
Timothy	Phleum sp.	
Yorkshire fog	Holcus lanatus	
Quaking grass	Briza media	
Soft brome	Bromus mollis	
		100%

Amenity Species Grassland A13 Golf Roughs & Habitat Areas: supplied by Germinal					
Browntop bentgrass	Agrostis capillaris	3%			
Chewings fescue	Festuca rubra commutata	25%			
Creeping red fescue	Festuca rubra rubra	63%			
Sheeps fescue	Festuca ovina	10%			
		100%			

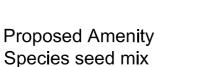






Grassland seed mix





Proposed Hedgerows

Species	Girth	Height	Root Type	Mix %
Corylus avellana	1+1	60/80	BR	25%
Crataegus monogyna	1+1	60/80	BR	45%
llex aquifolium	1+1	30/40	BR	5%
Prunus spinosa	1+1	60/80	3L	10%
Sambucus nigra	1+1	60/80	BR	10%
Ulex europaeus	-	30/50	2L	5%

#### Landscape Management:

Registered practice

Habitats and planting to be ma	naged in accordar	nce with the Biodiversity N	let Gain Report
dated February 2024 by Apple	tons. This will be c	arried out as part of the r	egular landscape
maintenance of the golf course			
R E V I S I O N S			
Project			
LYTHAM GREEN DRIVE G	OLF CLUB		
Title			
Landscape Proposals Plan			
<sup>Client</sup> Booth Ventures Ltd.			
Date FEBRUARY 2024	Scale 1:750@A1		appletons
Drawn	Drawing No.		
SW	2419_03		
Checked DS	Revision	Status Planning- Final	
		Old Road, Bolton BL1 3AD. T Ik.com Email:info@ap	