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Your ref:
Our ref: 1-38-2582

17th June 2010

Dear Mr. Morris,

Re: 38, Compayne Gardens, NW6

Thank you for your instructions to provide a brief report on the impact on trees of proposals for development (a parking bay) at the above .

1) I made an inspection on 25th May, 2010. I have to hand drawing 10/026 1B, on which the proposed outline of the car parking bay has been plotted on drg 1-38-2582/P2.

2) Plan 1-38-2582/P1 gives a quick reference assessment of value as per section 4 (table 1) of BS 5837:2005. British Standard 5837:2005 'Trees in relation to construction - Recommendations' recommends a way of classifying trees when assessing their potential value in relation to proposed development. Table 1 suggests categories 'R', 'C' (uncoloured on plan), 'B' (blue on plan) and 'A' (none), in ascending merit. Assessment of value in this case is based on the criterion of visual value to the general public.

3) The standard also provides a way of determining an area (the root protection area or RPA) around the trunk of the tree in which protective measures should be used in order to prevent significant damage to trees. (There are various ways of achieving this. A simple way is to use exclusion fencing, but other methods have been shown by established use to be very effective.) Please see plan 1-38-2582/P2.

4) Minor encroachment on the RPA of one tree is entailed, tree 1, a false acacia, Trials made by the Morton Arboretum found that up to 30% of the root system of mature trees could be cut without any difference in shoot elongation or vitality resulting. N.B. There is no proposal *per se* to cut any roots. A very small area (2.25

sq.m. / 4.3% of RPA) adjacent to the existing boundary wall is proposed for reduction. Please note that this is proposed to be by a maximum of 190mm on the threshold, sloping up to no reduction at all within 0.75m of the threshold to form a very short ramp to carry the proposed 'Bodpave' (or similar) to a level sitting on the existing ground level, and over the general root protection area of the tree. 'Bodpave' – or similar porous, above existing ground level treatment is proposed, to the extent of 14 sq.m. / 26.7%, and this is compliant with sections 11.3.3, 11.4.1, 11.4.2, 11.8.2 and 11.10, et al, of BS 5837 : 2005.

5) PERCEPTION OF TREES
Shading by trees has been considered (as section 6.3.2 of BS 5837:2005 recommends) and is not significant : the proposal is not for habited space.

6) SUPERSTRUCTURE AND TREE APPRAISAL - TREE PRUNING
I note from my site visit that no conflict with the crown of any retained tree will occur.

7) METHODS :

TREE PROTECTION - GENERAL
It is highly important to tree health and vitality that construction activities are carried out strictly in accordance with the tree protection methods specified. A single traverse of a root protection area by a mechanical excavator can cause SIGNIFICANT and PERMANENT (albeit temporarily invisible) damage to trees. Such machinery, including piling rigs, shall be kept at ALL times outside the root protection areas as indicated in the tree details table appended, and/or shall be subject to SPECIAL METHODS below. Fences to protect trees shall be respected as TOTAL EXCLUSION fences. Hence, before any site activity, including demolition, the fence lines shall be complete. Protective fencing and any temporary protection of ground surfaces will have to be removed in due course to allow finishing of landscaping, paving, etc., but this shall not take place until all need for vehicular access to the site has passed, and shall be agreed with arboriculturist / planners on site during progress of works.

TREE PROTECTION – SPECIAL METHODS
PLEASE READ WITH PLAN REFERENCE 1-38-2582/P2 APPENDED.

PRE-CONSTRUCTION

Method 1 : Supervision by an arboriculturist shall take place at key points in the construction process, and additionally whenever required by the architect or LPA. These key stages are :

1) **At site possession by contractor, outline all tree protection measures with site agent and resolve any issues arising. Ensure works to vegetation is carried out to specification and sign off. Ensure protective fencing is erected and completed as proposed. Ensure any site huts, mixing sites for mortars, disposal-to-skip sites, etc., are located appropriately, and sign off.**
2) **Supervise laying of ground protection and sign off.**
3) **Supervise minor excavation near tree 1.**
4) **Supervise laying of 'Bodpave' or similar and sign off.**
5) **Approve timing of removal of protective fencing (post main phase) and sign off.**

Method 2 : This method shall apply in zone outlined orange on plan. Any existing surface debris, vegetation, etc., that lies within the zone shall be removed using hand tools or hand-held power tools only. Tree work shall be in accordance with good arboricultural practice, to BS 3998:1989 'Recommendations for tree work', and to standards set within the Arboricultural Association's 'Standard Form of Contract and Specifications for Tree Work', 1996. The stumps of shrubs G2 and tree 3 shall be removed by mechanical stump grinder, or shall be grubbed out by hand and NOT by mechanical excavator. No 'scraping up' with a mechanical excavator shall be carried out.

Method 3 : Tree protection fencing shall be erected, consisting of 'Heras' type fencing (weld mesh panels), each section securely attached to uprights driven at least 0.6m into ground, as per the layout as shown on the plan (pink lines). The standard rubber supports ('elephant's feet') shall not be used.

CONSTRUCTION PHASE

Method 4 : This method shall apply in the zone hatched red on plan. Levels shall be reduced to 40mm below pavement level at threshold of site and shall ramp up to 40mm above existing ground level at line X - X.

Method 4 : This method shall apply in the zone outlined orange on plan. Heavy-duty polythene shall be laid over the entire area and then continuously abutted scaffold boards or manufactured boards shall be laid so as to completely cover this area. This protection shall be lifted only in the zone outlined green immediately prior to implementation of method 5 , and no sooner.

Method 5 : PARKING BAY
This method shall apply in zone outlined green on plan. No reduction of levels shall take place. No wheeled or tracked machinery shall be used, except if standing on completed formation as outlined below. A ground re-inforcement block such as 'Bodpave' (or similar product supplied as interlocking 'tiles' 40mm deep) shall be laid over the existing ground surface, and backfilled with topsoil and seeded. To bring edges flush with adjacent ground levels, topsoil shall be loose-tipped and graded by hand to slope to existing levels.

Method 6 : This method shall apply after completion of main build only. Soil handling of any kind within the root protection areas shall take place only after a minimum of 3 days after heavy rain, and shall where possible be carried out 7 days or more after such rainfall. Screened topsoil (to BS3882:2007- multi purpose topsoil) shall be laid to a maximum depth of 100mm as required

Method 7 : In addition to the above, careful general operation and site handling shall be observed as outlined below.

GENERAL TREE PROTECTION METHODS

A) No fires shall be made on any part of the site, or within 20m of any tree to be retained.

B) **No spilling or pouring of fuels, oils, solvents, tar shall be made on any part of the site.**

C) **No spillage or discharge of wet mortar or concrete shall be made on any part of the site.**

D) **No storage of materials shall be made within the protective fences.**

E) **No breaching or moving of the protective fences without the approval of an arboriculturist.**

F) **Services, if planned to be laid in the root protection areas, (and which notionally appears unnecessary in this case) shall be laid using trenchless 'no dig' methods or by hand dug trenches to avoid cutting major roots.**

G) **Alterations in levels within the tree protection fence areas shall be avoided.**

It is recommended that acceptance of the recommendations in this report is demonstrated by, for example, the architect specifying in writing to the building contractor that tree care conditions apply in execution of the contract, and by an estimate or written undertaking from the contractor to the architect demonstrating that the practical aspects of observation of such recommendations have been priced in.

CONCLUSION
I conclude that the construction proposed, subject to precautionary measures as outlined above and as per the recommendations outlined below, will not be injurious to the tree(s) to be retained.

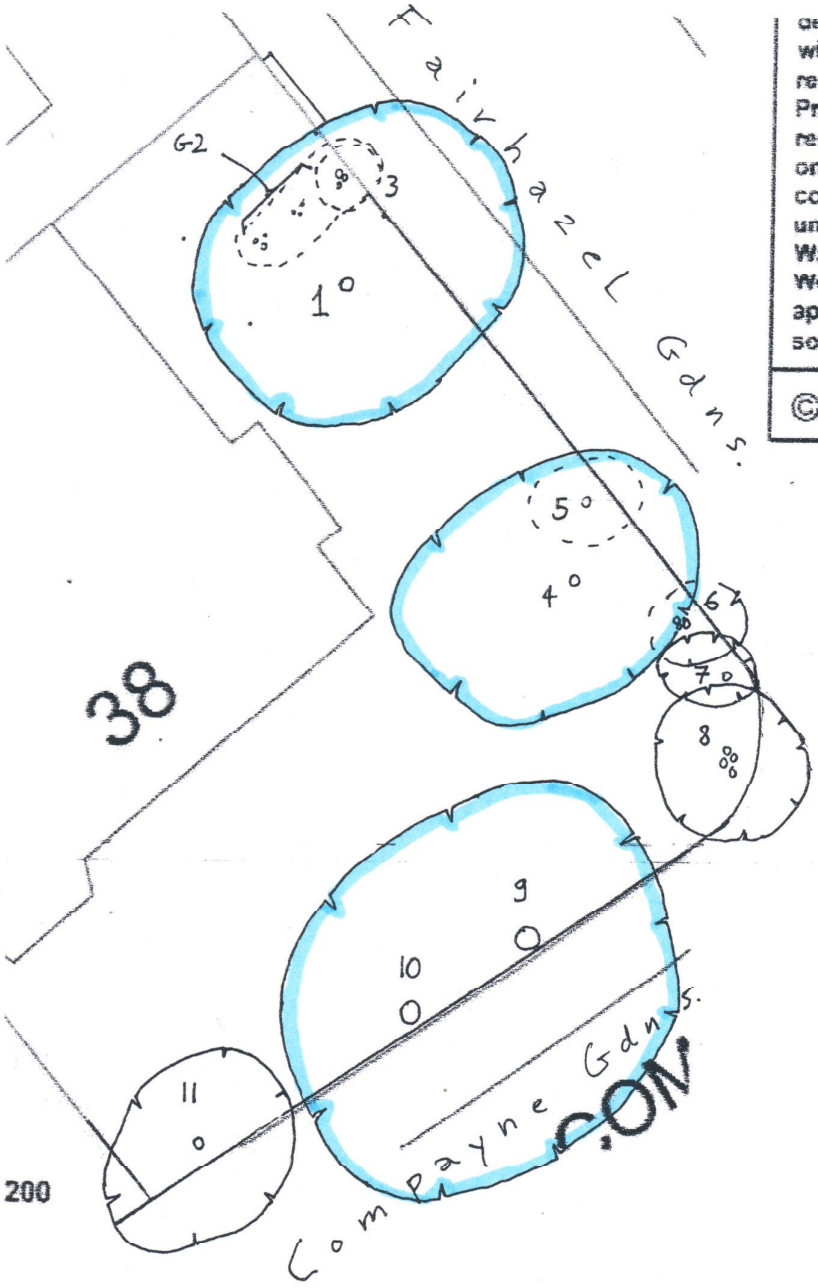
I trust the foregoing is of use to you. If I can be of further assistance, or any point needs clarification, please do not hesitate to contact me. For a brief overview of our small company please visit www.treescan.co.uk

Yours sincerely,

John C. M. Cromar
Appended : TREE DATA TABLE and PLANS 1-38-2582/P1 and 1-38-2582/P2

TREE DATA TABLE

No.	Tree	Height range (m)	Multi-stem (MS)?	Trunk / stem count dia. (mm)	Radius of RPA if circle	Root Protection Area (RPA) (m^2)	Comments	Life Expectancy	Assessed BS 5837 Value Cat.
1	2	3	4	5	6	7	8	9	10
1	false acacia (TPO?)	20		340	4.08	52.30	reduced about 5 years ago to 15m	40+	B2
G2	privet	5	MS	200	2.00	12.57	(shrub)	10-20	C2
3	laburnum	7		80	0.96	2.90	suppressed small tree	20-40	C2
4	false acacia (TPO?)	14		210	2.52	19.95	reduced to about 10m about 5 years ago	40+	B2
5	holly	4.5		240	2.88	26.06	decapitated	40+	C2
6	holly	4.5	MS	100	1.00	3.14	coppiced, all stems less than 100mm diameter	40+	C2
7	elder	6		100	1.20	4.52		10-20	C2
8	bay	6	MS	300	3.00	28.27	shrub form	40+	C2
9	purple beech (TPO)	14		500	6.00	113.10	very close to and disrupting wall; tree developing tight fork at 4m above ground level	40+	B2
10	purple beech (TPO)	14		500	6.00	113.10	very close to and disrupting wall;	40+	B2
11	holm oak	7.5		240	2.88	26.06		40+	C2



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TREE VALUE ASSESSMENT

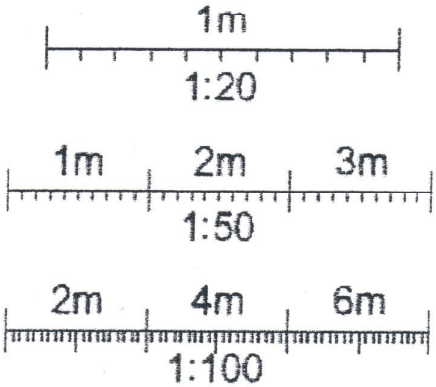
as per BS5837:2005

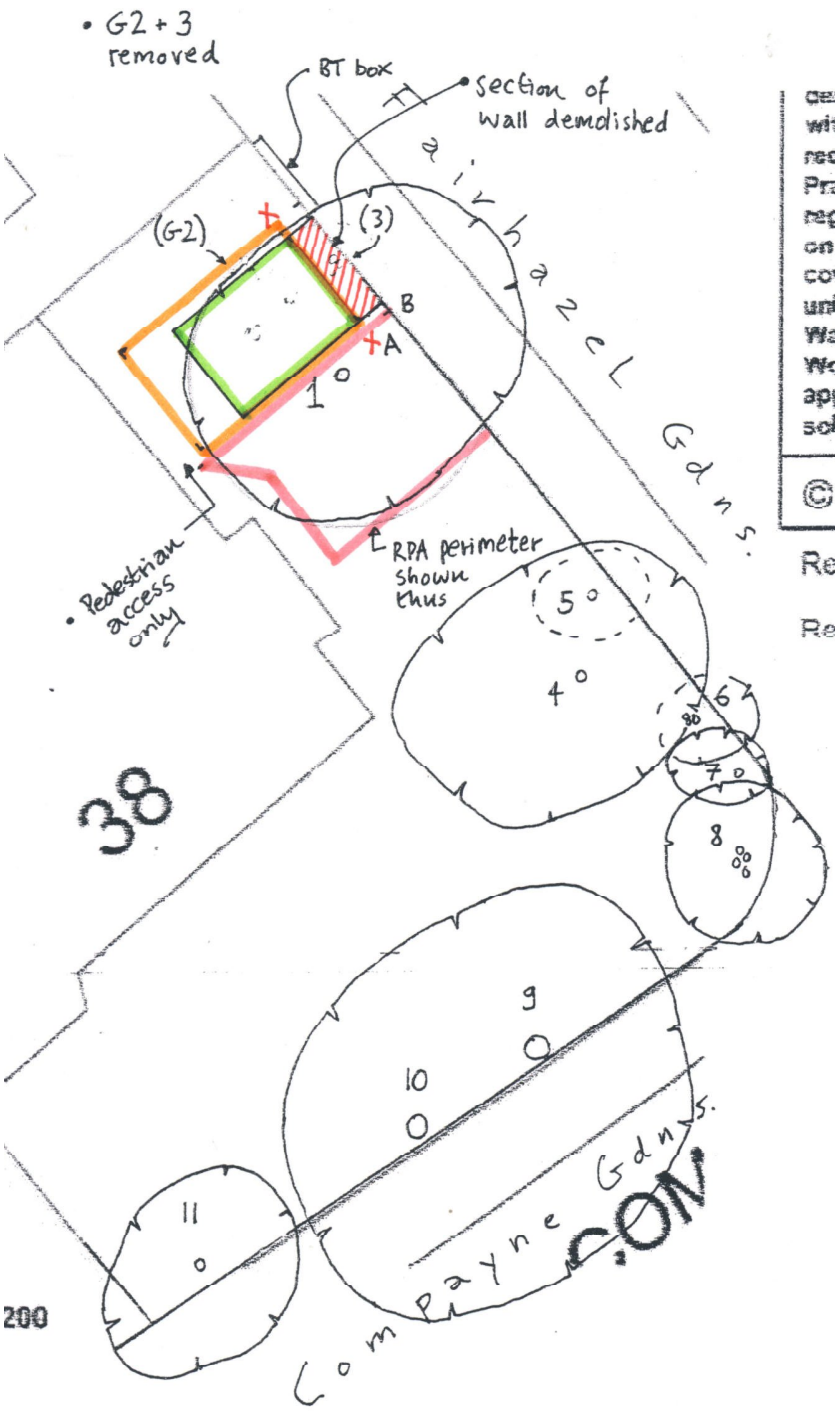
**38, Compayne Gardens,
London, NW6**

based on drg. 10/026 1B **supplied**

ref : 1-38-2582 /P1
1:200 scale
June 2010

Scale bars





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TREE RETENTION
and
TREE PROTECTION MEASURES

38, Compayne Gardens,
London, NW6

based on drg. 10/026 1B supplied

ref : 1-38-2582 /P2
1:200 scale
June 2010

• A - G.L. higher than B by approx. 150mm

• FOR COLOUR KEY SEE REPORT REF. 1-38-2582 JUNE 2010 17th

Scale bars

1m
1:20

1m 2m 3m
1:50

2m 4m 6m
1:100