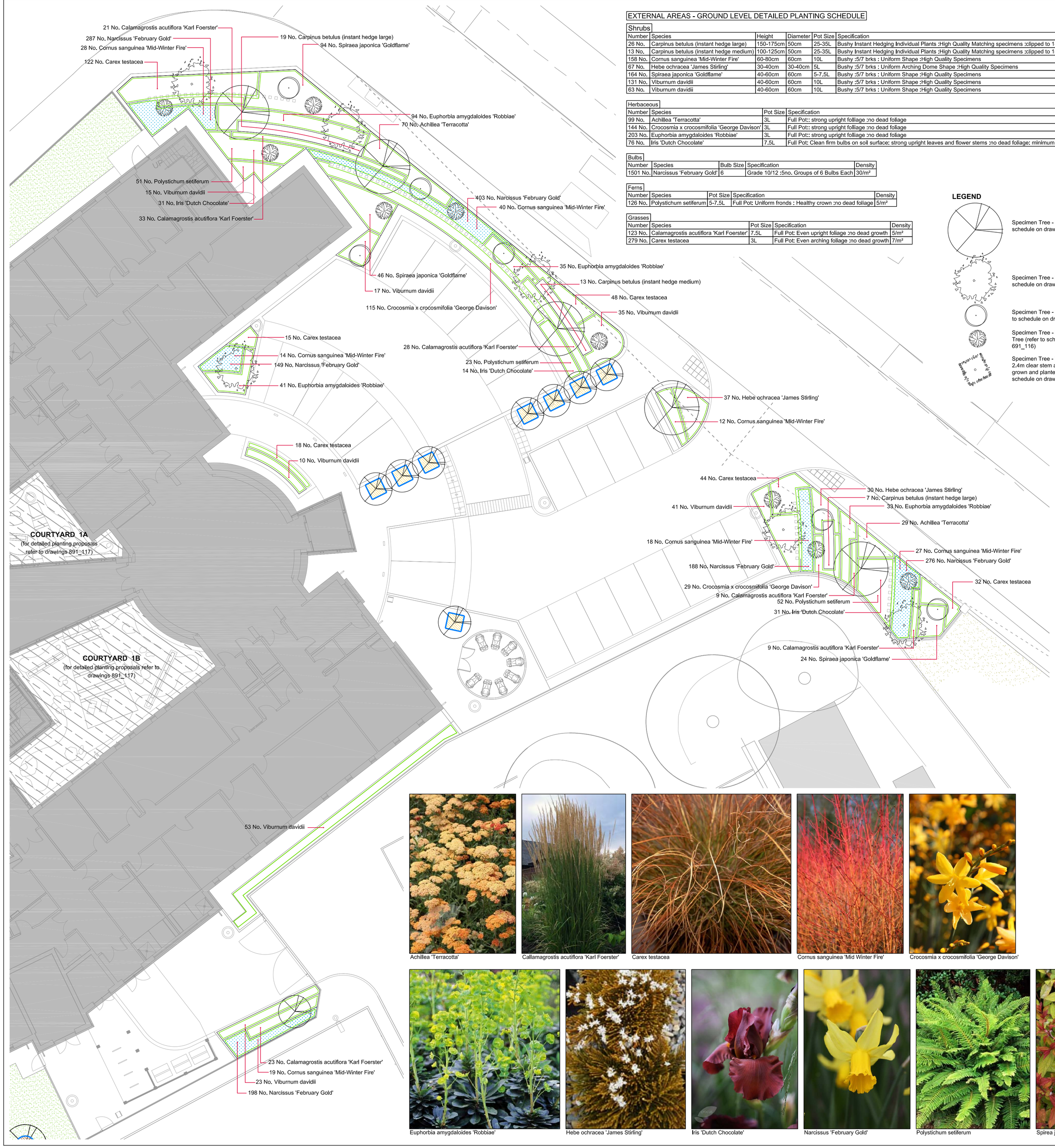

EXTERNAL AREAS - GROUND LEVEL DETAILED PLANTING SCHEDULE

Shrubs

Number	Species	Height	Diameter	Pot Size	Specification	Density
26 No.	Carpinus betulus (instant hedge large)	150-175cm	50cm	25-35L	Bushy Instant Hedging Individual Plants :High Quality Matching specimens :clipped to 1-5m high and 0.5m width following planting :container grown	Counted
13 No.	Carpinus betulus (instant hedge medium)	100-125cm	50cm	25-35L	Bushy Instant Hedging Individual Plants :High Quality Matching specimens :clipped to 1m high and 0.5m width following planting :container grown	Counted
158 No.	Cornus sanguinea 'Mid-Winter Fire'	60-80cm	60cm	10L	Bushy :5/7 brks : Uniform Shape :High Quality Specimens	3/m²
67 No.	Hebe ochracea 'James Stirling'	30-40cm	30-40cm	5L	Bushy :5/7 brks : Uniform Arching Dome Shape :High Quality Specimens	6/m²
164 No.	Spiraea japonica 'Goldflame'	40-60cm	60cm	5-7.5L	Bushy :5/7 brks : Uniform Shape :High Quality Specimens	5/m²
131 No.	Viburnum davidii	40-60cm	60cm	10L	Bushy :5/7 brks : Uniform Shape :High Quality Specimens	4/m²
63 No.	Viburnum davidii	40-60cm	60cm	10L	Bushy :5/7 brks : Uniform Shape :High Quality Specimens	3/m²

Herbaceous

Number	Species	Pot Size	Specification	Density
99 No.	Achillea 'Terracotta'	3L	Full Pot:: strong upright folliage :no dead foliage	7/m²
144 No.	Crocosmia x crocosmifolia 'George Davison'	3L	Full Pot:: strong upright folliage :no dead foliage	7/m²
203 No.	Euphorbia amygdaloides 'Robbiae'	3L	Full Pot:: strong upright folliage :no dead foliage	7/m²
76 No.	Iris 'Dutch Chocolate'	7.5L	Full Pot: Clean firm bulbs on soil surface: strong upright leaves and flower stems :no dead foliage: minimum 7 shoots	3/m²

Bulbs

Number	Species	Bulb Size	Specification	Density
1501 No.	Narcissus 'February Gold'	6	Grade 10/12 :5no. Groups of 6 Bulbs Each	30/m²

Ferns

Number	Species	Pot Size	Specification	Density
126 No.	Polystichum setiferum	5-7.5L	Full Pot: Uniform fronds : Healthy crown :no dead foliage	5/m²

Grasses

Number	Species	Pot Size	Specification	Density
123 No.	Calamagrostis acutiflora 'Karl Foerster'	7.5L	Full Pot: Even upright foliage :no dead growth	5/m²
279 No.	Carex testacea	3L	Full Pot: Even arching foliage :no dead growth	7/m²

LEGEND

Specimen Tree - Semi Mature (refer to schedule on drawing 691_116)

Specimen Tree - Multi Stemmed (refer to schedule on drawing 691_116)

Specimen Tree - Select Standard (refer to schedule on drawing 691_116)

Specimen Tree - Feathered Fastigiate Tree (refer to schedule on drawing 691_116)

Specimen Tree - Topiary Box Head with 2.4m clear stem and 1.8m box head grown and planted on a frame (refer to schedule on drawing 691_116)

Mixed Ornamental Shrub/Herbaceous Planting Areas

Existing Trees to be retained in accordance with BS5837:2005 - Trees in Relation to Construction

750mm Radius (1500mm dia.) clear area around the base of each tree planted in grass areas, surface of tree pit to be covered with minimum 50mm depth recycled green waste compost mulch, ring to be defined using Everedge Garden Rings AGS 5 Piece Ring, colour - Slate, size - 75mm high, product ref. (AG 57), rings to be installed 25mm above finished mulch surface and flush with top of turf

Trees planted in hard landscape areas to include recessed tree grille to receive paving surface to match surrounding areas. Centre of tree grille around collar of tree to include Greenleaf Arboresin surface, aggregate to be agreed, for further details refer to drawing 891_114

Amenity Grass Areas - Turf, Rowlawn Medallion Multi Purpose or equal and approved

Ornamental Bulb Planting (in between deciduous shrub planting, Narcissus - 6no. pits with 5no. bulbs in each pit)

Instant Hedge Planting - Carpinus betulus specimen instant hedging planted to form instant feature screen in a radial alignment to tie in with the overall design/layout at the front of the building, using the centre of the main hub as the centre of the radius for setting out. Hedge plants to be clipped following planting to the heights as specified to form neat geometric shapes

NOTES

1. All planting beds and tree pits in grass areas to be mulched with recycled green waste compost mulch (possible supplier - Newcastle City Council, Walbottle Road Depot)
2. All planting is to be selected by the Landscape Architect via a single nursery visit, or various nursery visits if required, the contractor is to ensure that the costs associated with any nursery visits are included
3. No plants or trees that have not been inspected by the Landscape Architect prior to delivery to site will be permitted/approved for use
4. Only plants/trees that are of a high enough standard in accordance with the specification will be selected/approved for use
5. Uniformity throughout all plant species is expected with minimal variation from plant to plant

INDICATIVE SOFT LANDSCAPE SPECIFICATION

Generally

Prior to planting, all earth works associated with landscape operations are to be made good, top soil levels are to be graded to 50mm above back of kerb after settlement and mounded as appropriate in accordance with landscape design. All existing good quality top soil is to be incorporated into the landscape proposals where practicable.

All plant material, setting out and finished grading is to be checked and approved by the Employers Agent prior to commencement of planting.

All planting is to be carried out during the first appropriate planting season following completion of all hard landscape works.

All areas are to be thoroughly stone picked by hand before and after cultivations, with all stones >20mm removed along with all deleterious arisings.

All landscape areas should remain free from waste material and rubbish at all times.

No planting should take place whilst ground is frozen or water logged.

All planting should arrive to site free of any pernicious weeds/moss/lichen.

All plant material is to be thoroughly watered before packaging for delivery, on the day of planting (before planting) and again immediately following planting using a fine rose sprinkler to the full depth of the roots.

All areas shall remain weed free both during construction and during the defects/maintenance period.

For more detailed information all landscape works should comply fully with the following British Standards:
BS 3882:2007 - Specifications for top soil
BS 3936,part 1:1992 - Nursery stock
BS 4043:1989 - Recommendations for transplanting root balled trees
BS 4428:1989 - Code of practice for general landscape operations
BS 5837:2005 - Trees in Relation to Construction

Sub Soil Preparation

Loosen light, non-cohesive soils with a fine 3 tine ripper, 300mm deep at 600mm centres in two oblique directions; loosen stiff clays and other cohesive sub-soils with a single tine ripper, 450mm deep at 100mm centres in two oblique directions.

Top Soil Preparation

Spread topsoil over prepared sub-soil in layers not exceeding 150mm depth and firm each layer before spreading the next. Overall minimum depths after firming and settlement shall be:

Amenity Grass Areas 150mm
Shrub Areas 450mm
Tree Areas 800mm (minimum)

Imported top soil shall be to BS 3882 premium grade from a source approved by the Employer's Agent. A declaration of analysis including relevant parameters given in BS 3882 shall be submitted to the Employer's Agent prior to delivery to site.

Root Barrier Installation

Main contractor is to install root barriers as required during construction and installation of all new services. Root barriers are to be installed as close as possible to all service runs.

All root barriers are to be installed in accordance with the following guidance from Greenleaf Urban Tree and Landscape Products:

'Root barrier installations are designed to protect the tree (preventing delicate root systems from being massacred by excavation machinery) as well as the utility infrastructure. We specify the use of a proven high strength (minimum thickness 1.0mm - ReR210) Greenleaf HDPE root barrier in all locations. The barrier should be installed as close to the utility as possible (maximizing rooting area for the tree) and if possible, in new service infrastructure projects, be installed in the same trench (against the side of the trench nearest the tree) at the same time as the utility is being laid.

All utilities should be protected (in accordance with the following depth guidance) with the exception of electrical cabling concealed within solid plastic conduit which does not usually require protection. Generally the majority of root growth is found within the top 600mm of the soil surface, therefore all utilities up to a maximum depth of 600mm should have a root barrier installed to 300mm below invert level as protection for both the services and the trees themselves. For services at a depth of between 600-900mm a root barrier should be installed at the same depth as the invert level.

Tree roots are not commonly found deeper than 900mm below the surface however, in some circumstances this can occur. Therefore services at a depth of 900-2000mm should be protected only when specifically requested by the individual service provider, and using a root barrier installed at a depth equal to the invert level. Lastly, utilities deeper than 2000mm only require protection in extreme circumstances and where specifically requested'.

Shrub/Herbaceous Planting

As scheduled, all ornamental planting is to be planted evenly to the densities indicated.

Rotovate and/or double dig 400mm deep (shrub areas), 800mm deep (tree areas) remove stones, clay balls exceeding 50mm width, roots, grass, tufts, and foreign matter.

Each pit shall be backfilled with approved quality top soil, mixed with tree planting/mulching compost, fertiliser/ameliorant and moisture retentive granules to the following quantities per each plant:

Ornamental Shrubs/Herbaceous:
10L Tree Planting Compost
30gms SAI Enmag
30gms Broadleaf P4

Specimen shrubs:
40LTree Planting Compost
70gms SAI Enmag
100gms Broadleaf P4

The above backfill mixture shall be prepared away from the planting area and in sufficient quantity for efficient handling and use. All compost shall be moistened to between 30-40% water content.

Amenity Grass Areas

Break up compacted top soils to full depth; reduce top 100mm to tilth (10mm down to particles); remove surface stones, clay balls exceeding 50mm width, roots, grass tufts and foreign matter; further reduce top 25mm to a fine tilth; rake to true, even, lightly firmed surface; remove surface stones and clay balls exceeding 25mm width.

Grass seed for all topsoil seeded areas - Rigby Taylor R12 General Playing Fields Grass Seed (or similar approved). Sown at a density of 35g/m2. Pre-seeding fertiliser to topsoil seeded areas:0:5:6 NPK at 40gms/m2, spread two to three days before seeding, not on day of seeding.

An initial cut, which shall be the responsibility of the Contractor, shall be carried out when the grass has reached a height of approximately 100mm, Selective weed killer, ICI 'Weedkiller for New Grass' / ' Fisons 'Mecodex' shall also be

applied.

Immediately before cutting all stones >20mm in any dimension shall be removed by hand. All arisings shall be removed from site. Prior to the Initial cut, a meeting is to be held between the Contractor and the Employer's Agent to agree the extent of re-sowing and weeding necessary.Following this, grassed areas shall not exceed a height of 50mm.

Defects Liability

Bare areas and areas of dead grass will be regarded as defects due to materials and workmanship; they must be made good by re-cultivation and re-seeding/re-turfing. Dead/failing shrubs and trees shall also be regarded as defects due to materials and workmanship and shall be replaced. When planting is carried out by the Contractor post Practical Completion, subject to the approval of the Employer, the landscaping defects liability period will commence from the date of completion of the additional works.

Maintenance

The landscape contractor will have five years maintenance responsibility to coincide with 1 years initial defects rectification period. Maintenance is to be undertaken in accordance with standard maintenance schedule as provided by the employer.

Achillea 'Terracotta'

Callamagrostis acutiflora 'Karl Foerster'

Carex testacea

Cornus sanguinea 'Mid Winter Fire'

Crocosmia x crocosmifolia 'George Davison'

Euphorbia amygdaloides 'Robbiae'

Hebe ochracea 'James Stirling'

Iris 'Dutch Chocolate'

Narcissus 'February Gold'

Polystichum setiferum


Spirea japonica 'Goldflame'

SAFETY, HEALTH & ENVIRONMENTAL INFORMATION

Principal Designer - P+HS Architects

In addition to the hazards / risks normally associated with the types of work detailed on this drawing, note the following;
Construction
1. No abnormal risk
Maintenance / Cleaning
1. No abnormal risk
Decommissioning / Demolition
1. No abnormal risk

It is assumed that all works will be carried out by a competent contractor, working where appropriate, to an approved method statement. This is not an exhaustive list and reference should be made to the Health and Safety Plan.

Rev.		CDM.	By.	Chk.	Date.
D	Front boundary screen features amended following approval of the revised concept from the local authority	yes	LHa	RS	05.01.16
C	Minor amendments to account for revised building ground floor layout and BREEAM requirements	yes	LHa	RS	06.07.15
B	Revised In accordance with approved VE items and issued for final contract issue	yes	LHa	RS	28.05.15
A	Minor amendments to annotations	yes	LHa	RS	24.11.14
---	Initial issue for comment	yes	LHa	RS	17.12.14

Proj. SOUTH TYNESIDE CARE HUB — **Loc.** NE34

Client. South Tyneside NHS Foundation Trust

Dwg. Detailed Low Level Ornamental Planting Plan - External Areas

Scale. 1:200 @ A1 — **Date.** 10.11.14

Drawing No. 891_116 — **Rev.** D

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