

**NOTES:**  
**A. CIVIL + ELECTRICAL ENGINEERING LAYOUTS HAVE BEEN INCLUDED ON THIS DRAWING TO ILLUSTRATE THE IMPACTS OF SERVICES ON LANDSCAPE PROPOSALS.**  
**B. ARBORICULTURAL IMPACT ASSESSMENT DRAWING HAS BEEN INCLUDED ON THIS DRAWING TO ILLUSTRATE RETAINED TREES AND VEGETATION AND RELEVANT RPAS**

**L-01: LOWER GROUND LEVEL 'HARD' LANDSCAPE MATERIALS - OUTLINE SPECIFICATION KEY**  
 Levels, boundaries, crossings, retaining walls, paving bedding + sub-bases, geotextiles, drainage channels, gullies etc to engineers' and architects' design detail and specification.

	<b>PEDESTRIAN PAVING (PUBLIC REALM) - INSITU CONCRETE</b> Footpaths in public realm surfaced with concrete paving to local authority's RMS standards and detail with kerb and haunching to engineer's design detail and specification. Saw-cut joints at max 3.00m centres. White coloured in-situ concrete (with Ecocem, GGBS and larger sized rounded aggregates in concrete mix) with exposed aggregate surface retarder ('Pier' by Grace Construction Products) finish and slip-form 'straight-edge' treatment to edges, all to engineer's design detail and specification. Concrete with Ecocem, GGBS and local rounded aggregates. 210mm depth without reinforcement; 150mm depth with mesh to engineer's design detail and specification. All works and finishes in public realm to be agreed with local authority by means of condition or compliance.
	<b>PAVING (PUBLIC REALM) - NATURAL STONE PERMEABLE</b> Paving to be designed by consulting engineers to drain permeably in accordance with BS 7533-13:2009. CE-marked flame-textured golden-coloured natural stone paving (slabs, sets and tactile warning surfaces) with a flame-textured finish and sawn all sides, min. 100mm depths to footpaths + gathering spaces. Class F Pedestrian paving (not trafficked by vehicles) to be laid open jointed with 'Subsflow' plastic spacers filled with 3mm down to dust jointing grit to free-draining bedding & sub-base to engineer's design detail and specification. All works and finishes in public realm to be agreed with local authority by means of condition or compliance.
	<b>PAVING (PUBLIC REALM) - NATURAL STONE KERBS</b> 250x300mm CE-marked golden granite kerb, bull-nosed with 20mmØ radiused corner to exposed edge. Medium bush-hammered finish, set in concrete haunching. Provide kerb-cuts where required to allow paving to sheet-drain into adjacent planter beds. Laid to meet requirements of BS 7533-6:1999, manufactured to EN 1343. All works and finishes in public realm to be agreed with local authority by means of condition or compliance.
	<b>PAVING (PERMEABLE) - HARD-BINDING GOLDEN GRAVEL</b> Permeable rolled 50mm compacted depth cream-coloured quartz sandstone aggregate gravel 'quarry dust' surfacing of locally sourced angular shaped aggregates, 10mm aggregate size down to dust. Laid on 25mm depth dolomitic limestone blinding sand to allow free drainage but seal all interstices on granular sub-base to engineer's design detail and specification. Certify pyrite-free. Edge with L-shaped aluminium 'Permaloc' edging trim on 200x300mm continuous C20P concrete races, surfacing to be suitable to be comfortably trafficked with wheelchairs, mobility devices and buggies.
	<b>STREET FURNITURE - CYCLE SHELTERS (8 SPACES EACH)</b> '8x Bike Shelter' (with 4 no. cycle stands to provide 8 no. cycle parking spaces in each shelter) by Green Roof Cycle Shelters or EGA, 3.70x2.25x2.00x0.70m LxHxWxD with green roof substrate, planting, external wildlife panels for solitary bees and invertebrates, and bird nesting boxes. Cycle shelters with built-in locking bars and clad to the rear and sides in the public open space with mesh to ensure clear views, and in the creche cycle parking area with timber cladding to rear and to sides and with lockable doors to ensure cycle parking for staff is secure. Provide 2.00m length free circulation space to front of cycle stands.
	<b>'PLAY' BOULDERS: ROUNDED GLACIAL ERRATIC BOULDERS</b> Rounded glacial erratic boulders (granite or sandstone) of variable size with either chamfered smooth edges or natural rounded shapes, depressed in the landscape finish to 0.30-0.40m depth, to achieve a 0.60m max height above the surrounding finished landscape levels to act as informal seating elements and/or bollards. Sharp edges, if extant, to be deburred. Boulders of 0.75m (w) 1.50m (l), 1.00m (h) set on sub-base to engineer's design detail and specification on well-consolidated ground.
	<b>STREET FURNITURE - SEATS, BENCHES + PICNIC SETS</b> 'Drifter' seats, benches and picnic sets by Streetlife NL in standard lengths of 2.00m and 3.00m with galvanised steel finish supports (finished with a double layer powder coating), provided with 1.8m length back rests to 2.00m seats with a variety of L1 (300mm depth) + L2 (620mm) seat widths. Recycled 100% hardwood.
	<b>SCULPTURE LOCATION - PUBLIC OPEN SPACE</b> Graphic denotes suggested location for contemporary art sculpture at focal areas throughout the proposed development.
	<b>DRAINAGE STRIP TO BASE OF ELEVATIONS + PARAPETS</b> 500mm width, min. 150mm depth layer of 10-20mm diameter washed and graded pea gravel at roof penetrations, along parapets and at base of elevations, 50x150mm pressure-treated edging to separate growing medium and planting. To FLL standards.
	<b>INDICATIVE LOCATION OF UNDERGROUND STORMWATER ATTENUATION TANK, NOT IN PUBLIC OPEN SPACE</b> to engineer's design detail and specification.

**L-01: 'SOFT' LANDSCAPE MATERIALS - OUTLINE SPECIFICATION KEY**  
 Refer to Planting Details, Planting Schedule and Planting Maintenance programme. 24-month long landscape maintenance and LA-certified Defects Liability Period required post-Practical Completion. The planting stock should be sourced from a reputable supplier and be of Irish origin/provenance.

	<b>H2 - NEW NATIVE MIXED SPP TRANSPLANT HEDGEROW</b> Wildlife Fruiting Hedge (species such as Hawthorn, Hazel, Elder, Bird Cherry, Blackthorn, Crab Apple, Wayfarer Tree, Holly), whips planted in groups of varieties that repeat themselves along the hedge, to mature as a 'natural' hedgerow. Plant in staggered rows, 4 hedging transplants per m². 1 no. climbing plant per 0.5m length (e.g. Honeysuckle, Ivy, Dog Rose). Provide 75mm depth, 1.20m width, medium-grade bark mulch topping to reduce future weed growth at base.
	<b>DRIFTS OF BULB PLANTING</b> plug-planted with top size 5/6 bulbs <i>Crocus</i> var., <i>Galanthus nivalis</i> , <i>Allium ursinum</i> , <i>Anemone nemorosa</i> , <i>Hyacinthoides non-scripta</i> etc., variety and species depending on soil type and landscape conditions.
	<b>PERENNIAL PLANTING TYPES: P1 P2 P3</b> Moisture-tolerant perennial pollinator-friendly container-grow plants to planter beds with a diverse mix 70:30 ratio of ornamental grasses, bulbs, corns, ferns, ground-cover plants, sedums to flowering perennials of both native cultivars and exotic species to ensure a pollinator-friendly planting mix in line with the 'National Pollinator Plan'. These plants should establish quickly requiring minimised maintenance.
	<b>TREE PLANTING GENERALLY</b> All tree pits to be approved by Landscape Architect prior to planting. All trees to have a 2.00m ht clear stem unless otherwise specified as multi-stemmed or feathered trees, to ensure clear visibility for pedestrians. Trees guyed underground, triple-staked or double-staked as per planting schedule & supplied with planting accessories as per Planting Details as per BS5837:2012 + LA's Planting Details. Root barriers to be provided to all trees within 2.00m of underground services, foundations or walls. Trees planted in excavated tree pits, desired pit area approx 4.00m², 1.00m depth. No services routes to be planned through tree-pits. Appropriate Plant Passports required for trees for bio-security measures, trees to be hardened off in Ireland for 2x growing seasons.
	<b>SEMI-MATURE TREES</b> <b>Ps</b> <i>Pinus sylvestris</i> , 4xtr/wrb/ 30-35cmg/ 6.0-6.50m ht. <b>SaB</b> <i>Salix alba</i> 'Babylonica' 4xtr/wrb/ 30-35cmg/ 6.0-6.50m ht.
	<b>SEMI-MATURE TREES</b> <b>La</b> <i>Liquidambar styraciflua</i> 'Fastigiata', 3xtr/ wrb/20-25cmg/5.0-5.5m ht.
	<b>MULTI-STEMMED TREES, LARGE SHRUBS</b> <b>Ac</b> <i>Amelanchier canadensis</i> , 2xtr/wrb/2.5-3.0m ht. <b>Bn</b> <i>Betula nigra</i> 'Heritage', 2xtr/wrb/2.5-3.0m ht. <b>Hl</b> <i>Hamamelis intermedia</i> 'Jelena', 2xtr/wrb/2.0-2.5m ht. <b>MK</b> <i>Magnolia 'Kobus'</i> , 2xtr/wrb/2.0-2.5m ht.



- LANDSCAPE - NUMBERED KEY**
- Public Footpath:** 2.00m width public footpath surfaced in in-situ concrete to meet requirements of local authority specification to provide pedestrian access north to Dodder Valley Park; all proposed works in public realm to be agreed with Local Authority.
  - Cycle Parking:** Secure covered cycle shelters with green roof, planting and substrate, external wildlife panels for solitary bees and invertebrates and bird nesting boxes. Cycle shelters with built-in locking bars or Sheffield-type stands, with either timber cladding or galvanised steel mesh panels to elevations, open to front. Cycle shelters for creche staff, located securely behind 2.00m ht mesh post-and-panel fence and gate boundary treatment.
  - Peripheral Open Space:** native pollinator-friendly and shade-tolerant hedge planted along the site boundary to create a 'green corridor' to support the movement of animals through the site along the north-western boundary.
  - Existing stand of trees** growing in Dodder Valley Park protected with measures identified by the consulting arborist and pruned back as per the arborist's plan.
  - Secure Creche Access Path:** min. 1.80m width path (internal within site boundary) to provide pedestrian access from car-park creche visitor set-down area to the creche entrance in the western elevation and from basement car-park drop-off parking to creche child drop-off.
  - Creche amenity external open space:** suitable for children's play ages 0-5, landscaped with toddler table and stools, multi-user adventure play equipment for toddlers, and elemental play equipment suitable for use by babies and toddlers.

**L-01: LOWER GROUND LEVEL AMENITY PLAY (CRECHE) LANDSCAPE MATERIALS - OUTLINE SPECIFICATION KEY**  
 Warranty and guarantee to be provided for equipment as follows: up to 8 years for support posts of boiler impregnated wood; up to 10 years for support posts of larch, oak and robinia; up to 15 years for support posts of concrete and metal; 2 years for all moveable parts, metal fixings and ropes.  
 Play equipment by Richter Spielgeraete, supplied by TimberPlay or equivalent approved. All play equipment where possible to be specified as 'larch with steel feet' detail option for durability reasons in climate and context. Concrete foundations to equipment to engineer's design detail and specification. All play equipment to be tested and installed to meet requirements of EN 1176 and 1177. All safety surfacing to be tested and installed in accordance with requirements of EN 1176 and 1177.

	<b>BOUNDARY TREATMENT - CRECHE OPEN SPACE FENCING</b> 2.40m ht stippled mesh fence with V-crimps for rigidity with proprietary double leaf swing self-closing gates at entrances, all to BS1722-14 category 1. Panels to be fixed with steel clips and anti-vandal bolts to 60x60 galvanised posts. All to be finished with polyester powder coating to EN 1722 Pt 16, colour 'Olive Grey' RAL 7002. Locking system + intercom to be provided to all gates to ensure staff can gain access.
	<b>CRECHE PLAY SPACE - PLAY EQUIPMENT</b> Larch with steel feet wooden play equipment by Richter Spielgeraete selected to provide a play and art point for children of all abilities, designed, manufactured and installed to EN 1176 and EN 1177. Selected equipment: 1x '4.3050 Toddler's Table with 8 Stools'; 1x '5.0025 Caterpillar Type 04'; and 1x '2.12150 Hut Combination 215'. Equipment detailed for into-ground installation.
	<b>CRECHE PLAY AREA (PERMEABLE) - ARTIFICIAL GRASS IASS</b> Nomow Safe 300' artificial grass impact attenuating safety surfacing to 3.00m certified critical fall height tested to EN 1176 and 1177:2008, artificial grass layer e.g. 'Luxury Plus 17' with pile height min. 40mm, 'Geotex' layer and 70mm 'Shocksaver' closed cell polymer foam laminated mat on min. free-draining drainage stone sub-base to engineer's design detail and specification.
	<b>CRECHE PLAY AREA (PERMEABLE) - BARK IASS</b> Well-graded, chunky pine bark loose impact attenuating safety surfacing. Dust and fines removed. Nominal particle size 30-60mm, e.g. '10/50' play bark' by Melcourt or equivalent approved, tested and certified in accordance with EN 1176/1177 to 3.00m CFH to 500mm settled depth on free-draining sub-base and geotextile to engineer's design detail and specification.



ABOVE: L-01 Type of Open Space by OMP Architects

**Open Space Area Schedule**

Name	Level	Area
CRECHE PLAY SPACE	01	216.3 m²
PUBLIC OPEN SPACE	01	53.9 m²
PERIPHERAL AREA	01	29.7 m²
PERIPHERAL AREA	01	11.3 m²
PUBLIC OPEN SPACE	02	1293.5 m²
PERIPHERAL AREA	02	218.3 m²
PRIVATE COMMUNAL AMENITY SPACE	01	467.6 m²
PRIVATE COMMUNAL AMENITY SPACE	02	30.9 m²
PRIVATE COMMUNAL AMENITY SPACE	03	168.5 m²
PRIVATE COMMUNAL AMENITY SPACE	04	295.9 m²

**Public Open Space % of Site Area Schedule**

Name	Area	% Percentage of Site Area
PUBLIC OPEN SPACE	1347.4 m²	29.3
TOTAL SITE AREA	4605.6 m²	100

- Quantum Open Space Areas**
- CRECHE PLAY SPACE
  - PERIPHERAL AREA
  - PRIVATE COMMUNAL AMENITY SPACE
  - PUBLIC OPEN SPACE

ABOVE: Quantum of Open Space Table by OMP Architects

This drawing is the copyright of StudioAULA landscape architects. The drawing must be read in conjunction with all relevant design team and surveyor's drawings, details and specifications. Unless otherwise stated all dimensions are in millimetres. Where dimensions are not given, drawings must not be scaled and the matter must be referred to the Landscape Architect. Similarly if the drawings contain conflicting details or dimensions. This drawing includes conflicting details dimensions the matter must be referred to the Landscape Architect. All dimensions must be checked on site prior to construction or fabrication. The Landscape Architect must be informed, by the Contractor, of any discrepancies before work proceeds. This drawing has not been prepared for BCAR, BCMS or DAC purposes, and has not been prepared to demonstrate compliance with the Building Regulations. The site layout is based on the topographical site survey.

- GENERAL NOTES**
- For details of existing ecology, please refer to ecologist's and bat survey reports if available.
  - For details of existing vegetation and vegetation to be removed and retained, please refer to arborist reports if available.
  - For details of sightlines and services, please refer to consulting civils, lighting, mechanical and electrical engineer's drawings and reports.
  - Indicative-only layout of existing and proposed utilities shown to illustrate existing water mains, underground and overground services, drainage and ancillary infrastructure, as they relate to landscape. For details of same, please refer to consulting engineer's design, detail and specifications.
  - All materials to be agreed with local authority by way of compliance.
  - This drawing is to be read in conjunction with all relevant architect, engineer and other specialist's drawings and specifications.
  - All levels are in metres and relate to Mean Sea Level/Ordnance Data.
  - The site layout is based on the topographical site survey.
  - For details of finished building and site levels, approaches to buildings such as sloped or level access, ramps or steps, and retaining walls, please refer to architect/consulting engineer's design detail and specification.
  - This drawing has not been prepared to indicate compliance with DAC, BCAR or Disability Access Act.
  - All paving bedding, site-specific sub-bases, build-ups, joints, footings, foundations, joint detailing, reinforcing bar details and bolts to be detailed in accordance with the relevant design, detail and specification, and to BS7972.
  - Levels and falls, crossings and blower tactile surfacings, line markings etc. to consulting engineer's design detail and specification. For details of tactile paving to hazards such as steps and crossings, please refer to engineer's drawings.
  - All services access covers and underground services shall be coordinated with landscape finishes, tree pit locations and street furniture locations.
  - Services access covers to be located 100% in one finish or the other.

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**PROJECT:** FIRHOUSE INN SHD  
**DRAWING:** LANDSCAPE PLAN - LEVEL -01 LOWER GROUND

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**LANDSCAPE MASTERPLAN - LEVEL -01**  
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