

# INSET PLAN B



- LEGEND**
- Existing Vegetation
  - Proposed root barrier (Green Blue Urban ReRoot 2000 or similar approved)
  - Green-Tech Arborcraft system (or similar approved)
  - Proposed Trees in hard landscape
  - Proposed Trees in soft landscape
  - Proposed Specimens
  - Hedging
  - Shrub/herbaceous planting
  - Bulbous planting
  - Grass: Wildflower Meadow
  - Grass: Mown
  - Nest Box - Schwegler 2H Robin Box Located southern/eastern aspect, height 3-4m, refer to 4 Acre Ecology
  - Nest Box - Schwegler 15P Sparrow Terrace: Located southern aspect, height 4-5m from ground, refer to 4 Acre Ecology
  - Nest Box - 1B Nest Box: Located on southern/eastern aspect, height 3-4m from ground, refer to 4 Acre Ecology
  - Nest Box - Schwegler 9A House Martin Nest Box: Located in eaves (not above windows) western aspect, height 2m from ground, refer to 4 Acre Ecology

PLEASE REFER TO ARCHITECTS PLANS FOR EXACT WINDOW POSITIONS AND ELEVATION DETAILS FOR POSITIONING OF BOXES AND 4 ACRE ECOLOGY FOR FURTHER ECOLOGICAL INFORMATION AND NESTING REQUIREMENTS

### GENERAL NOTES

This drawing is to be used for planting information only, and is subject to alteration through changes to the site layout or until approved by the area designer.

Any species substitution by the contractor must be verified with the Landscape Architect through the Job Architect.

This layout must be checked in accordance with NHC Standards 2013 (Chapter 4.2 - Building Near Trees & Chapter 9.2 Drives, Paths and Landscaping) by the Regional Engineer prior to implementation.

Excavations: Contractors must ensure that they have full information relating to service and drainage positions before undertaking any excavations.

Root barriers to be used in association with tree planting adjacent to kerbs / services / footpaths etc. (Greenleaf ReRoot products or similar application, in accordance with manufacturer's instructions).

### NOTES:

This drawing is to supercede LLA drawings 1619 A5 01-05 & 08-09

### LANDSCAPE SPECIFICATION

#### SITE PREPARATION

**Topsoil**  
Existing topsoil shall be stripped before building works begin. Imported topsoil shall be to BS3882: 2015 Specification for Topsoil. Topsoil shall be multi-purpose grade, of medium texture, with a high proportion of fertile loamy material. It shall be free from subsol, rubbish, rubble, contamination, roots of perennial weeds and other materials injurious to plant growth. The maximum stone content of the soil shall be 20%, with the maximum size of stone 25mm in any one dimension. All topsoil shall be stacked in heaps, not exceeding 2m high. During storage, topsoil heaps shall be kept free from compaction, contamination and weeds to BS3882: 2015.

**Excavation**  
Excavation shall NOT be undertaken with machinery within the root protection area of any existing trees or shrubs to be retained. Areas requiring excavation under existing trees are to be hand dug with an arboricultural present to oversee the work. Unless otherwise indicated areas to be planted / seeded shall be cleared of all surface rubbish and excavated to the dimensions below finished level as follows, when the soil is not waterlogged or frozen. Ensure the location of all services is known before any excavation operations.

- Tree pits: 1000 x 1000 x 600mm deep unless otherwise shown
- Shrub and hedge pit / trench: 450mm deep
- Grass areas: 300mm deep
- Wildflower grassland areas: Excavate to finished levels

The base of excavated areas shall be forked or otherwise cultivated to a depth of 150mm to facilitate drainage and all bricks, stones and other debris, etc. over 75mm in any one dimension shall be removed. Similarly, areas trafficked by construction vehicles shall be ripped to a depth of 150-300mm to relieve compaction.

**Backfilling with Subsoil**  
Where excavated areas are lower than the required depths, excavations shall be backfilled with selected subsoil and lightly consolidated to make up levels. Selected subsoil shall be friable, second quality topsoil or similar and be free of rubbish, roots, stones over 75mm in any one dimension, perennial weeds or other materials injurious to plant growth to BS8601: 2013.

**Backfilling with Topsoil**  
Tree, shrub and hedge pit / trench excavations shall be backfilled, in layers, with clean topsoil (as specified above) thoroughly mixed with planting compost e.g. Melcourt Topgrow' compost at a rate of 20 litres/m<sup>3</sup>. An approved tree and shrub fertilizer shall be added to topsoil, prior to backfilling tree-pits. Grass areas shall be backfilled with topsoil in layers of 150mm depth.

**Cultivation**  
Prior to cultivation if planting / seeding areas are weed infested, weed growth to be stemmed, the arisings removed and re-growth treated with an approved herbicide ie Glyphosate. Treatment to be undertaken in the growing season preceding planting, at a minimum 4 weeks prior to works to allow for repeat treatment if necessary.

Cultivation shall not be undertaken within the root protection area of any trees / shrubs to be retained, without prior agreement from the Local Planning Authority. Topsoil shall be cultivated by hand or machine prior to planting, with minimal compaction by machine. Cultivate to the following depths and till, removing all rubbish, vegetation, perennial weeds, roots, stones over 25mm in any one dimension and rake to even levels.

- Planting areas: 300mm deep cultivation to medium till
- Grass seeding areas: 150mm deep cultivation to fine till raked to a smooth evenly firmed bed
- Turf areas: 150mm deep cultivation to medium till raked to a smooth evenly firmed bed
- Wildflower grassland areas: 150mm deep cultivation to medium till raked to a smooth evenly firmed bed

**Wildflower grassland areas:** Where un-excavated areas are to be seeded with wildflower grassland mix the topsoil shall be cultivated to turn the soil over to a depth of 300mm to bring subsoil to the surface. Elsewhere, excavated areas to be seeded with wildflower grassland mix to be backfilled to finished levels with subsoil (as above).

#### PLANTING

**Plant Stock and Timing**  
Plant material and operations shall conform to BS8545 : 2014, BS 3936 Nursery Stock (Parts 1-10), BS 4428 : 1989, BS 4043 : 1989 and BS 5837 : 2012. The planting season shall be from the 1st October to the 31st March. Container grown stock may be planted outside this season if accompanied by daily watering, or as necessary to ensure healthy establishment. Planting shall not be carried out during periods of frost, drought, cold drying winds or when the soil is waterlogged or frozen.

**Planting**  
All planting that is within the root protection area of existing trees/shrubs to be retained, shall be undertaken by hand and positions aligned should tree roots be encountered, in order to avoid damage to the root system.

All plants shall be set out evenly over the areas as indicated, to the density and quantities shown. All plants shall be planted upright at the same depth as the nursery soil level and evenly spaced, leaving room for growth. All restrictive containers shall be removed with roots not twisted. Immediately following planting, all plants shall be watered-in to field capacity.

Container grown and root balled plants shall be planted in a planting pit sufficient to accommodate the plant without causing root damage, with a minimum 50mm backfill beyond the root ball extent. Plants to be firmed, watered-in and dead, damaged or lopped branches shall be removed after planting. Bare-root plants shall be sit planted, incorporating an approved high phosphate, slow-release fertilizer.

**Tree Planting and Support**  
Trees planted in landscape areas shall be installed as specified.

All trees to be firmed in after planting. All trees shall have irrigation / aeration system units fitted to fully surround the root ball.

**Hedge Planting**  
Hedges shall be planted in a double staggered row as per detail. Dead, damaged or stragly branches shall be removed after planting. All transplants in hedge and native mixes shall be fitted with individual protection i.e. shrub shelters, spiral guards as specified, or alternatively the planting areas shall be protected with rabbit-proof fencing. All shrub shelters / spiral guards shall be black or green, adequately supported and installed to allow for expansion.

**Bulb Planting**  
Bulbs shall be planted according to species and good horticultural practice. Swatches of bulbs shall be randomly planted avoiding straight lines and / or formal layout unless otherwise specified.

**Mulching**  
Prior to the application of mulch the planting areas shall be completely weed free and watered sufficiently to achieve field capacity. The surface of the planting areas shall be mulched with a minimum 75mm depth of 15-65mm nominal particle size, dark, matured woodchip mulch, ensuring that the low branches of trees, shrubs and/or herbaceous plants are NOT smothered.

Mulch shall be an approved product and completely weed and seed free. The mulch shall be topped-up to maintain, after settlement, a depth of not less than 50mm. Trees in grass areas shall be planted centrally within a 1m diameter mulch bed, to be mulched to 75mm deep. The surface of mulch to be 10mm below the surface of adjacent lawn / hard surface.

#### GRASS AREAS

**Turf**  
Turf shall accord with BS 3969: 1998. It shall be good quality meadow / cultivated, amenity turf free from weeds and be laid on even, prepared ground (as detailed above), during periods of suitable warm and moist weather conditions. Pre-turfing fertiliser shall be applied to manufacturer's recommendations and turf shall be laid in accordance with BS 4428: 1989.

Turf shall be laid with broken joints well-butted up, working from timber planks to avoid damaging turf when laying. Water as necessary to avoid shrinkage and achieve satisfactory establishment. Undertake good horticultural practice to ensure establishment of a healthy grass sward.

**Grass Seeding**  
Areas of amenity grass shall be seeded with a general amenity grass mix as specified during the period March to May or September to October, during periods of moist, warm weather conditions without significant wind. Pre-seeding fertiliser shall be applied to manufacturer's recommendations. Seed shall be sown on even, prepared ground (as detailed above), at a rate of 35g/m<sup>2</sup> or as specified, in two transverse operations. Lightly roll seed bed after sowing. Water as necessary to avoid shrinkage and achieve satisfactory establishment. Undertake good horticultural practice to ensure establishment of a healthy grass sward.

**Wildflower Grassland Seeding**  
Areas of wildflower grassland shall be seeded with a wildflower grassland mix suitable for the soil type as specified, during the period March to May or September to October, during periods of suitable warm and moist weather conditions. Seed shall be sown on prepared ground (as detailed above), at a rate of 5g/m<sup>2</sup> or as specified. Lightly roll seed bed after sowing. Water as necessary to avoid shrinkage and achieve satisfactory establishment. Undertake good horticultural practice to ensure establishment of a healthy wildflower grass sward.

#### AFTERCARE PERIOD

**Regular Visits**  
During the specified Aftercare Period maintenance visits shall be carried out, at least monthly from April to September and twice during the dormant season to carry out the following operations to establish healthy growing plants / grass in weed free areas: watering, firming-up, removal of litter, pest and disease control, general pruning, checking guards, ties and stakes, weed control, grass cutting and autumn tidying. All arisings shall be carted away and the site shall be left clean and tidy at all times.

**Watering**  
All planting and grass areas shall not be allowed to dry out and shall be kept well watered during the growing season, ensuring the soil is kept moist at all times but avoiding waterlogging.

**Replacement Planting**  
During each August within the Aftercare Period an inspection shall be made of all plants that have died, are missing, damaged or have failed to thrive, shall be noted and replaced in the following planting season.

**Grass Cutting**  
During the first and subsequent growing seasons amenity grass shall be kept at a height of 25mm to 50mm. Any bare patches are to be resown. Selective weed control shall be undertaken as necessary once the sward is sufficiently established.

**Wildflower Grassland Cutting**  
During the first growing season cut wildflower grassland every 2 months to a height of 50mm and in subsequent growing seasons cut to 50mm height during late March and late August / early September or as specified. All arisings shall be collected and removed from the site to avoid smothering the sward and to reduce nutrient levels. Spot treat perennial weeds with Glyphosate at the manufacturer's recommended dose rate / or hand pull.

#### TREES

Number	Plant Name	Height	Girth	Specification
3 No.	Prunus avium	400-450cm	16-18cm	Extra Heavy Standard: C: Clear Stem min. 200cm
3 No.	Acer campestre	400-450cm	14-16cm	Extra Heavy Standard: Clear Stem min. 200cm
1 No.	Pyrus calleryana 'Chanticleer'	500-600cm	20-25cm	Extra Heavy Standard: C: Clear Stem min. 200cm
4 No.	Carpinus betulus 'Frans Fontaine'	450-500cm	18-20cm	Extra Heavy Standard: C: Clear Stem min. 200cm
4 No.	Sorbus aria	500-600cm	20-25cm	Extra Heavy Standard : C: Clear Stem 175-200
8 No.	Prunus avium 'Plena'	450-650cm	18-20cm	Extra Heavy Standard: C: Clear Stem 175-200cm

Total :23 No.

#### HEDGING

Number	Plant Name	Height	Container	Specification	Density
138 No.	Fagus sylvatica	80-100cm		1+2: Transplant - seed raised: B	3/m
828 No.	Lonicera nitida 'May Green'	30-40cm	10L	Bushy: 5/6 brks: C	3/m

Total :966 No.

#### SHRUBS

Number	Plant Name	Height	Container	Specification	Density
5 No.	Aucuba japonica	60-80cm	10L	Bushy: 5 brks: C	3/m <sup>2</sup>
99 No.	Berberis x stenophylla	60-80cm	10L	Bushy: 7 brks: C	3/m
45 No.	Choisyia 'Aztec Pearl'	40-60cm	10L	Bushy: 7 brks: C	3/m <sup>2</sup>
50 No.	Choisyia ternata 'Sundance'	40-60cm	10L	Bushy: 7 brks: C	3/m <sup>2</sup>
32 No.	Cornus sanguinea 'Midwinter Fire'	80-100cm	10L	Branched: 5 brks: C	3/m <sup>2</sup>
55 No.	Euonymus fortunei 'Silver Queen'	20-30cm	5L	Bushy: 7 brks: C	3/m <sup>2</sup>
36 No.	Euonymus fortunei 'Silver Queen'	20-30cm	5L	Bushy: 7 brks: C	5/m <sup>2</sup>
102 No.	Hebe 'Great Orme'	30-40cm	5L	Bushy: 5 brks: C	4/m <sup>2</sup>
54 No.	Hebe 'Great Orme'	30-40cm	5L	Bushy: 5 brks: C	5/m <sup>2</sup>
7 No.	Hydrangea quercifolia	40-60cm	10L	Branched: 5 brks: C	3/m <sup>2</sup>
7 No.	Hypericum 'Hidcote'	40-60cm	10L	Bushy: 9 brks: C	3/m <sup>2</sup>
72 No.	Lavandula angustifolia 'Hidcote'	20-30cm	5L	Bushy: 7 brks: C	4/m <sup>2</sup>
6 No.	Philadelphus 'Belle Etoile'	40-60cm	10L	Branched: 7 brks: C	3/m <sup>2</sup>
4 No.	Phorhium 'Sundowner'	100-125cm	25L	Triple Crown: C	Counted
48 No.	Ruscus aculeatus	30-40cm	3L	Several Shoots: 3 brks: C	5/m <sup>2</sup>
39 No.	Santolina chamaecyparissus	30-40cm	5L	Bushy: 8 brks: C	4/m <sup>2</sup>
16 No.	Sarcococca humilis	25-30cm	7.5L	Bushy: 7 brks: C	4/m <sup>2</sup>
108 No.	Skimmia japonica 'Kew White'	30-40cm	5L	Bushy: 4 brks: C	4/m <sup>2</sup>
145 No.	Viburnum davidii	30-40cm	5-7.5L	Bushy: 4 brks: C	4/m <sup>2</sup>
5 No.	Viburnum x bodnantense 'Dawn'	80-100cm	10L	Branched: 4 brks: C	3/m <sup>2</sup>

Total :935 No.

#### HERBACEOUS

Number	Plant Name	Container	Specification	Density
14 No.	Anemone hephepensis 'September Charm'	2L	Full Pot: C	6/m <sup>2</sup>
33 No.	Aster 'Little Carol'	3L	Full Pot: C	6/m <sup>2</sup>
12 No.	Bergenia 'Bressingham Ruby'	3L	Full Pot: C	6/m <sup>2</sup>
141 No.	Carex buchananii	5L	Full Pot: C	5/m <sup>2</sup>
10 No.	Epimedium x youngianum 'Niveum'	2L	Full Pot: C	6/m <sup>2</sup>
7 No.	Geranium macrorrhizum	2L	Full Pot: C	6/m <sup>2</sup>
59 No.	Rudbeckia fulgida sultillanii 'Goldsturm'	3L	Full Pot: C	6/m <sup>2</sup>

Total :276 No.

#### BULBS

Number	Plant Name	Specification	Density
114 No.	Allium 'Globemaster'	Grade 18/20	10/m <sup>2</sup>
412 No.	Colchicum autumnale	Grade 18/20	10/m <sup>2</sup>
288 No.	Eranthis hiemalis	Grade 4/5	10/m <sup>2</sup>
488 No.	Narcissus pseudonarcissus	Grade 5/6	10/m <sup>2</sup>

Total :1302 No.

#### FERNS

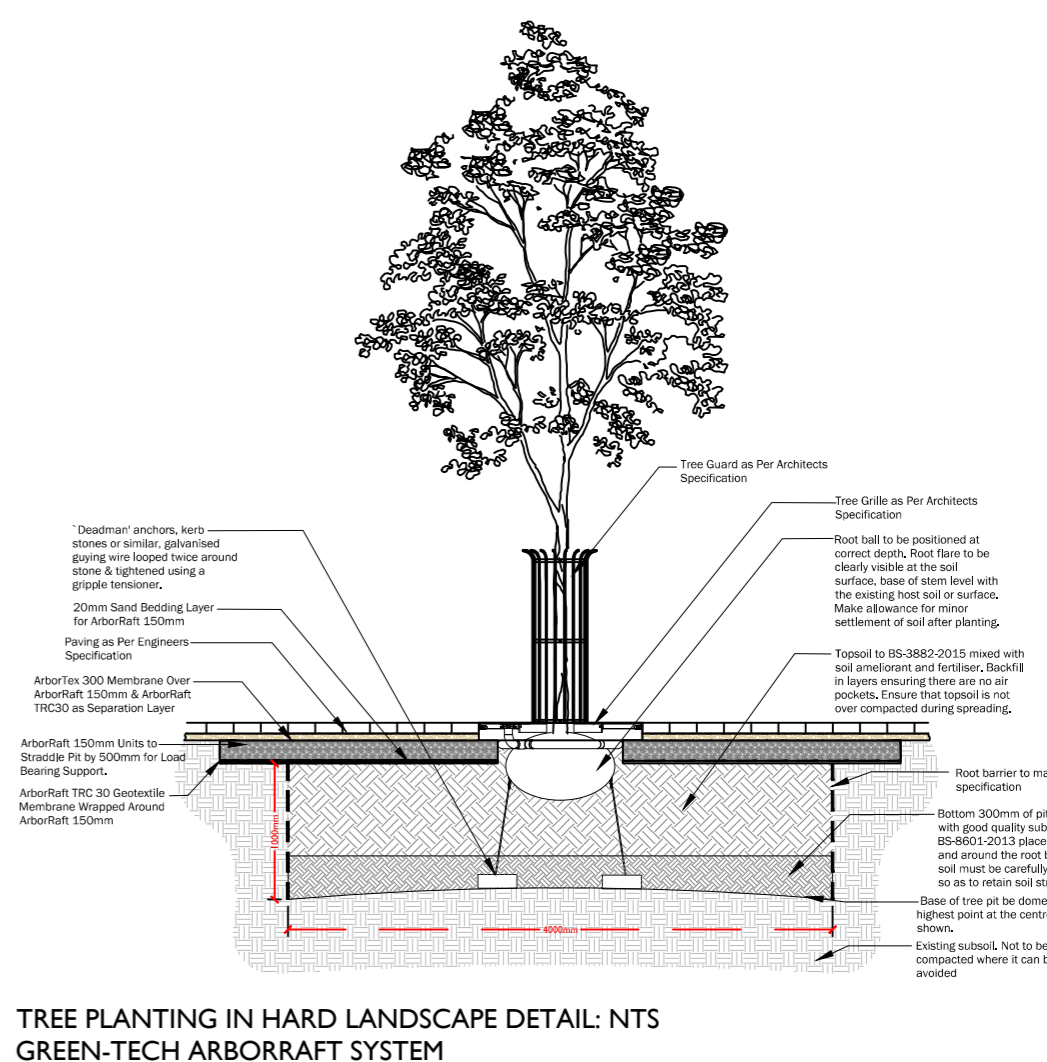
Number	Plant Name	Container	Specification	Density
12 No.	Asplenium scolopendrium	3L	Full Pot: C	5/m <sup>2</sup>
79 No.	Dryopteris affinis 'Cristata Angustata'	3L	Full Pot: C	5/m <sup>2</sup>
14 No.	Dryopteris erythrosora	1.5-2L	Full Pot: C	6/m <sup>2</sup>

Total :105 No.

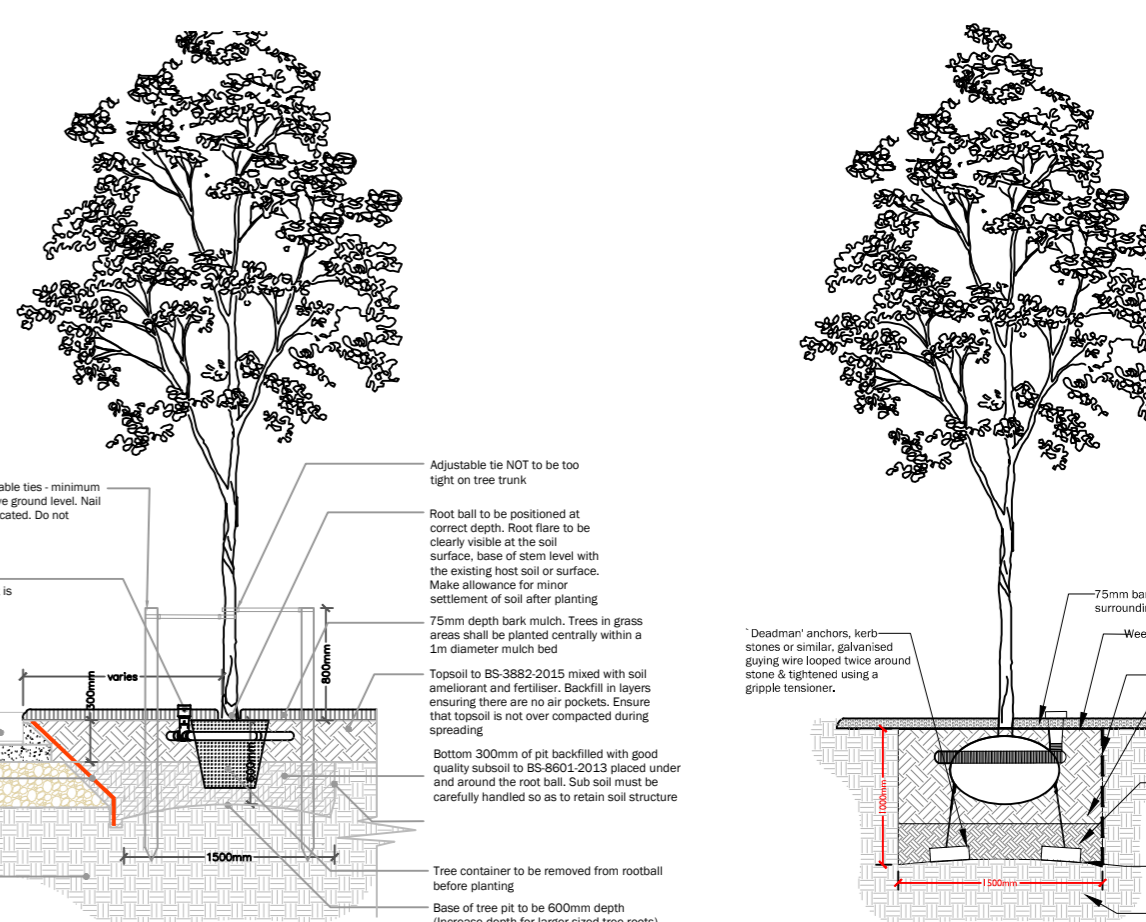
#### GRASSES

Number	Plant Name	Height	Container	Specification	Density
34 No.	Liriope muscari		3L	Full Pot: C	6/m <sup>2</sup>

Total :34 No.



TREE PLANTING IN HARD LANDSCAPE DETAIL: NTS GREEN-TECH ARBORCRAFT SYSTEM



TYPICAL TREE PLANTING IN SOFT LANDSCAPE DETAIL: NTS DOUBLE STAKE FIXING ADJACENT TO CARRIAGEWAY/ FOOTWAY

TREE PLANTING IN SOFT LANDSCAPE DETAIL: NTS UNDERGROUND GUYING SYSTEM To be used in planting of trees with specified 18-20cm to 25-30 girth

Rev	Date	Description
A	15.01.19	New architectural layout and phase amendments
B	15.01.19	Schedule Update
C	21.01.19	Schedule Update

Title: Detailed Planting Proposals 2 of 2  
 Project: Heyford Park, Bicester Parcel 8A  
 Client: Dorchester Living  
 Date: February 2018  
 Scale: 1:200 @ A1  
 Drawing No: 1619 A5 07 C  
 Rev:   
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