STREET LIGHTING
DESIGNED TO BS 5489-1:2003 CEN S3

LC1B
6m high Galvanised Tubular Steel Post Top Column
Stainton Metal Company Ltd. (Metro)
to South Tyneside Borough Councils and
Balfour Beatty Power Networks Specifications.
Finish before erection
Hot dip Galvanised to BS 729
External Surfaces Overall & Internal to 250 mm above
Ground Level
1st Coat :- 'T' Wash
2nd Coat :- Primer of Amercoat 71TC
External Surfaces overall
Ameron PSX 700 Colour BS 4800 00 E53
Additional coat to 250mm above finished Ground Level
Ameron Steelgard Root Treatment
Lantern :-
Thorn R2L2 Lanterns with a Neutral White LED
R2L2 S 12L70 WSC LED_2413 29W
Controlled by Phillips City Touch CMS

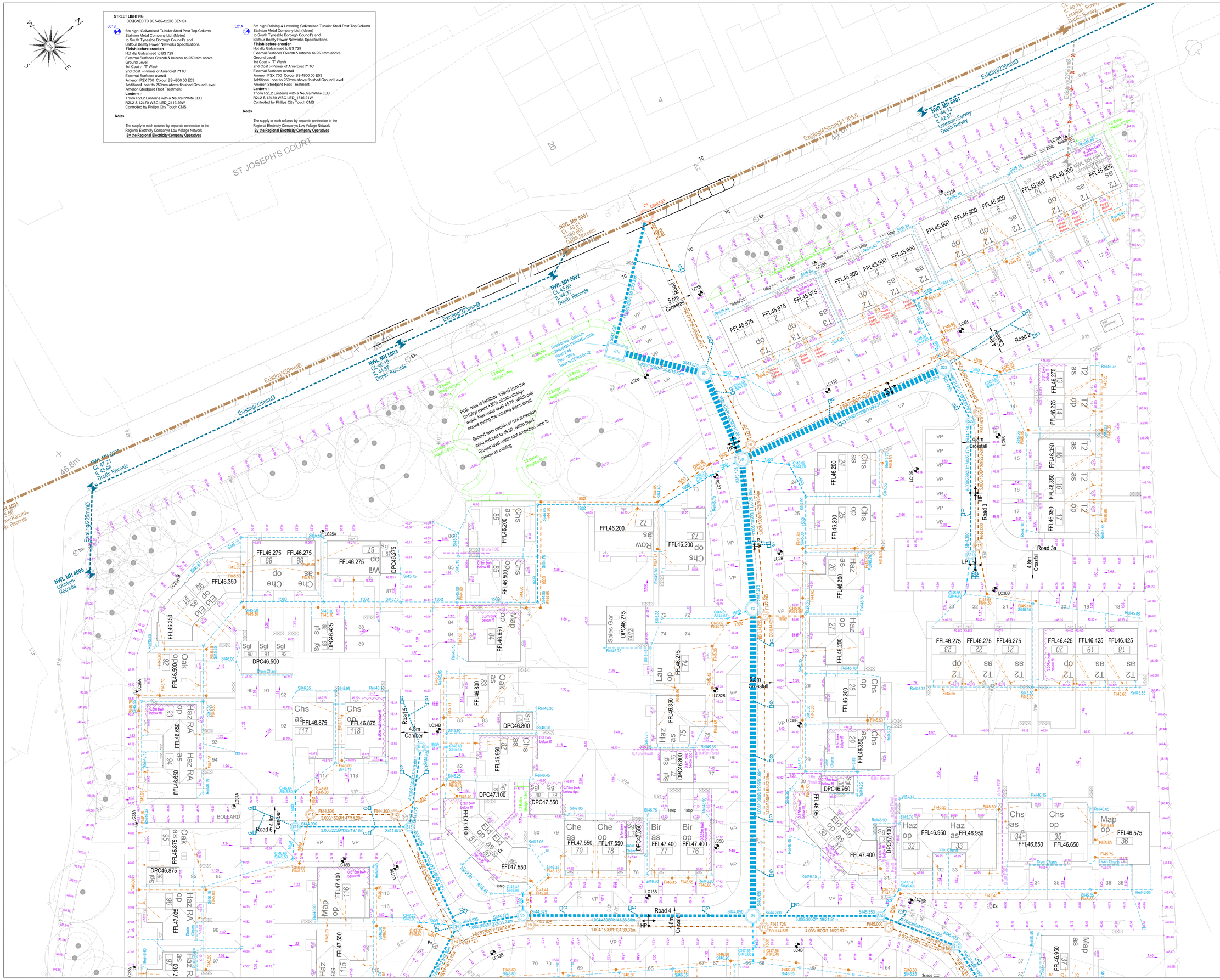
Notes

The supply to each column by separate connection to the
Regional Electricity Company's Low Voltage Network
By the Regional Electricity Company Operatives

LC1A
6m high Raising & Lowering Galvanised Tubular Steel Post Top Column
Stainton Metal Company Ltd. (Metro)
to South Tyneside Borough Councils and
Balfour Beatty Power Networks Specifications.
Finish before erection
Hot dip Galvanised to BS 729
External Surfaces Overall & Internal to 250 mm above
Ground Level
1st Coat :- 'T' Wash
2nd Coat :- Primer of Amercoat 71TC
External Surfaces overall
Ameron PSX 700 Colour BS 4800 00 E53
Additional coat to 250mm above finished Ground Level
Ameron Steelgard Root Treatment
Lantern :-
Thorn R2L2 Lanterns with a Neutral White LED
R2L2 S 12L50 WSC LED_1815 21W
Controlled by Phillips City Touch CMS

Notes

The supply to each column by separate connection to the
Regional Electricity Company's Low Voltage Network
By the Regional Electricity Company Operatives



General Notes:-

Highways
1. All highway works to be carried out in accordance with the current local authority design guide and specification
2. All excavations below proposed and existing highways to be back filled with granular Type 1 sub base and well compacted in layers not exceeding 150mm.
3. Highway authority to be notified by the contractor prior to the commencement of works.

Adoptable Drainage
1. All adoptable drainage works to be in accordance with the water authorities publication - "Sewers For Adoption 6th Edition" aswell as the approved drawings.

2. Precast concrete manhole rings to comply with the relevant provisions of BS5911: Part 200.

3. All brickwork to be Class B engineering complying with the relevant provisions of BS 3921. Concrete bricks maybe used if their specification is the same as Class B engineering bricks. Please seek approval from relevant water authority before using.

4. Manhole covers and frames shall comply with the relevant provisions of BS EN 124 and be of a non-rocking, non-ventilating design.

5. Ladders that are required in Type A manholes are to comply with "Sewers For Adoption 6th Edition".

6. Concrete must be either C20 sulphate resistant portland cement with high strength concrete topping to the benching or C35 ordinary portland cement

7. 150mm Concrete surround is required around pipes where the depth from finished surface to soffit of pipe is less than 1200mm. This may be reduced to 900mm within open space.

8. The location of existing drainage that is within close proximity to the proposed site works, which is not to be diverted, should be confirmed by the contractor and reported to the developer to ensure it corresponds to that shown on the engineering layout and that no proposed works are affected.

9. Roads and sewers contractor must inform water authority prior to works commencing

Existing Services
Any existing services which may be affected by the proposed works should be located by means of a hand dig in close liaison with the statutory service authorities. The contractor shall inform the developer of any services that may affect the proposed design.
Contractor to notify statutory service authorities prior to commencement of work.

As Constructed Information
It is the contractors responsibility to provide the following as constructed drawings to the developer upon the completion of the works covered by the contract.:-

1. Position/co-ordinates of all adoptable manholes.
2. Invert and cover levels of all adoptable manholes.
3. New gully positions and connections.
4. Position and depth of service ducts for water, gas, electric, BT, cable and street lighting, stating size and number of ducts.

Until technical approval has been obtained from the relevant Authority, it should be understood that all drawings issued are Preliminary and NOT construction. Should the contractor commence site work prior to such approval being given, it is entirely at his own risk.

LEGEND

Adoptable Drainage
Proposed adoptable Foul manhole — F1
Proposed adoptable Storm manhole — S1
Proposed adoptable Combined manhole — C1
Existing adopted Foul manhole — ex. MH
Existing adopted Storm manhole — ex. MH
Existing adopted Combined manhole — ex. MH
Existing adopted Storm manhole to be abandoned — ex. MH
Adoptable Highways
Proposed highway to be cambered
Proposed highway to have crossfall — 0.5
Proposed highway gully — G
Proposed tactile pedestrian crossing — T.C.
Private Drainage
Private storm rodding eye — R.E.
300mm dia. private inspection chamber. To be used where depth to invert is 300mm or more but less than 1000mm — I.C.
450mm dia. private inspection chamber. To be used where depth to invert is 300mm or more but less than 1000mm — I.C.
Notes:-
All private drainage is to 100mm dia\ pipe or 110mm flexible pipe unless otherwise shown.
Where 5 or more properties connect to the same private storm run the pipe(s) should be cadered to 150mm dia. after the fifth property. Please refer to Buoyn to see pipes that require attention.
Pipes laid in rock shall be bedded in 10mm to 20mm pea gravel to provide a minimum bedding to BS 882. Part 2 of 10mm nominal single sized aggregate. Rigid pipes of nominal dia 150mm and 160mm flexible pipes shall be provided with a minimum bedding to BS 882. Part 2 of 10mm or 14mm nominal sized aggregate or 14mm to 5mm graded aggregate.
Retaining walls and steps
Retaining wall (retained height shown), (edge protection required over 600mm ht) — Rwall
Turning
Brickwork to be shown below DPC
Paving Bag Steps - 300mm Going, 150mm Rise
Batter - these should not exceed 1:3 adjacent to adoptable Highways
Proposed finished ground level
DPC levels must NOT be altered without informing the designer
Please refer to Architects layout for details of proposed fending and walls.

ENGINEERING NOTES - FOR THE ATTENTION OF BELLWAY HOMES TECHNICAL DEPARTMENT	
1	Bunding to be constructed in POS area adjacent to the site entrance to facilitate 100 year climate change event.
2	Existing trees located in POS area to remain
3	Storm discharge rate at manhole S10 restricted to 130l/s as requested by Northumbrian Water via the Pre-development Enquiry.
4	Hydro Brake Optimum unit to be constructed at manhole S10.
5	Restricted discharge rate to 130l/s, and there is to be no rainwater harvesting on site.
6	Existing service infrastructure located within site boundary. Potential diversion required.
7	Existing storm sewer between MH6981 & MH6902 to be abandoned.

Rev H - Footpath crossfall revised to 1:32 at Highways request and first off manhole cover levels amended to suit. JM 24 06 15
Rev G - Service duct location overlaid as requested by client. JT 23 06 15
Rev F - Adoptable drainage revised. Combined outfall added. S10 Invert revised. Hydrobrake spec revised. Street lighting revised. JM 04 06 15
Rev E - Road 3a revised to crossfall and gullies amended.Road 3 and 3a levels amended. Revised site layout added with amendments to VPs. JM 19 05 15
Rev D - Sub station removed. Footpath amended fronting plot 87. JM 21 02 15
Rev C - Lighting column locations added. Steps added fronting plots 10-12. Batter revised to gable of plot 12. Steps omitted to adoptable to footpath fronting plot 12, footpath alignment revised. White lining added. Tactile crossing points added to Mill Lane. Existing sewer 6981 annotated as to be abandoned.. JM 09 01 15.
Rev B - External works updated to current architect layout. Roads 1 and 4 revised to crossfall.JM 25 09 14
Rev A - Gully position revised at site access. JM 30 07 14.

Drawing Status
PRELIMINARY

Title
Bellway Homes
Former South Tyneside College
Mill Lane, Hebburn
External Works Sh 1 of 2

scale	Date
1:200 A0	June 2014
Drawn by JM	e-mail james.mason@queensberrydesign.co.uk

Drawing no.	Revision	Checked by.
QD973-04-01	H	MP

QUEENSBERRY DESIGN
ENGINEERING & ARCHITECTURAL CONSULTANTS
NORTH EAST OFFICE
SUITE 7D, NETWORTH PARK STANNINGTON
NORTHUMBERLAND, NE61 6BF T: 01670 789604
NORTH WEST & YORKSHIRE OFFICE
CLARE HOUSE, 2A ST MARTIN'S LANE
YORK YO1 6LN T: 01904 500 663
www.queensberrydesign.co.uk