Performed by Contact Info **Project Title:** ID 16402 - Foundling Court Name: Dragos Galu Position/Role: Planner Contact No: Type of Work: SDU/MDU/Estate Status: In Planning dragos@delteq.co.uk Email: Verify by Contact Info Borough: Camden Route ID ref: Name: Position/Role: Contact No: Foundling Court & O'donnell Court Site: Postcode: WC1N 1AQ/ WC1N 1NX Email: **MDU Planning Department Contact Info** Address: BRUNSWICK CENTRE, LONDON, WC1N 1NY Email: mdu.planning@communityfibre.co.uk Landlord: LAZARI PROPERTIES 2 LIMITED Premises: 410 Pack Type **Short Description of Works** OLT Ref.: Contractor is to connect 410 premises to existing network, using undergrounds ducts run through BT infrastructure. We recommend Dependency: In Conjunction with: internal installation on this site, using splitter boxes mounted on the sidewall of the building. White cables will run horizontally. Run drop cables secured to the wall and leave cable coils next to entry locations, inside pattress boxes, along the proposed route. **Project:** ID 16402 - Foundling Court All new core drill are to be sealed with fireproof materials. Project ID - Name All works are to be reinstated like for like. Access details: securitymanager@brunswick.co.uk, david.plumb@brunswick.co.uk, florence.logan@communityfibre.co.uk **Cover Sheet** CablingOverview: 12f cable 1 to 3 **Fox Court** Rodent Matrix: Surveyor: No Rodent Protection Needed Score: Author **Details** Date Verify By Date 14 Grays Inn Rd Ver. N. 1 Dragos Galu First Issue 12.04.2023 12.04.2023 London WC1X8HN Registration No: 7413288

British Standard; BS7671: 18th Edition. Wiring Regulations 18th Edition. Particular attention is to be made to:

- Chapter 52: Regulation 521.10.202; requires Wiring systems shall be supported such that they will not be liable to premature collapse in the event of a fire. This applies throughout the installation and not just in escape routes.
 - Chapter 42: Regulation 422.2.1 has been redrafted. Reference to conditions BD2, BD3 and BD4 has been deleted. A note has been added stating that cables need to satisfy the requirements of the CPR in respect of their reaction to fire.
- <u>British Standard; BS6701:2016+A1:2017.</u> Telecommunications equipment and telecommunications cabling. <u>Particular attention is to be made to:</u>
 Chapter 5 Clause 5.4.3: Separation of telecommunications and electricity supply cabling' shall be practiced.

British Standard; BS9999-2017. Code of practice for fire safety in the design, management and use of buildings. Particular attention is to be made to:

- 31.4: Construction of compartment walls and compartment floors.
 - -32: Openings, Ventilation Ducts, Pipes and Protected shafts.
 - 32.6: Fire-stopping.

British Standard; BS50174. Information Technology - Cabling Installation. Particular attention is to be made to:

- Part 1 2018: Installation specification and quality assurance.
- Part 2 2018: Installation planning and practices inside buildings.
- Part 3 2013+A1-2017: Installation planning and practices outside buildings.

<u>Building Regulations</u>. Part P; Electrical Safety-Dwellings. <u>Particular attention is to be made to</u>:

- Section 2: Application of part P.
- Section 3: Certification, Inspection and Test.

Building Regulations. Part B; Fire Safety: B3 "Internal fire spread" (structure). Particular attention is to be made to:

- B3 Section 9: Protection of openings and fire-stopping.

Work at Height Regulations 2005 (WAHR): Work at height means work in any place where, if there were no precautions in place, a person could fall a distance liable to cause personal injury.

When stageing a design and working at height is a factor, you must work through these simple steps:

- 1. Do as much work as possible from the ground;
- 2. Ensure workers can get safely to and from where they work at height.
- 3. Ensure equipment is suitable, stable and strong enough for the job.

<u>Control of Asbestos Regulations 2012</u>: The Regulations set out your legal duties and Approved Code of Practice (ACOP) and guidance give practical advice on how to comply with those requirements.

New Roads and Street Works Act 1991 (NRSWA): An Act to amend the law relating to roads so as to enable new roads to be provided by new means; to make new provision with respect to street works and, in Scotland, road works; and for connected purposes.

This is supported trough the <u>Safety at Street Works and Road Works</u> A code of Practise. This Code applies to all highways and roads, except motorways and any dual carriageways with a speed limit of 50 mph or more.

Regulations



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Hazard Identification By Planner During Site Survey and Minimum Requirements

Project Title:		ID 16402 - Foundling Court		Foundling Court & O'donnell Court
	Performed by:	Dragos Galu		12.04.2023
ID	Hazard	Possible Locations/People affected	Yes/No	Minimum Requirements
1	Impact on access for emergency services	Hospital Entrance, Ambulance Station, Fire Station, Police Station	Yes	Provide NRSWA, Chapter 8 signing and guarding. Adequate barriers and equipment on site. Liaise with local residents/emergency services. Clean High Vis PPE worn at all times on site. Further risk assessment may be required taking into consideration access for emergency vehicles at all times.
2	Children from Schools, Colleagues, University etc, getting access to the site (falling into trenches, interfering with equipment, guarding)	Schools, Colleagues, University, Nurseries, Playground etc.,	Yes	Permission to be granted by school headmaster before works commence. Provide NRSWA, Chapter 8 signing and guarding. Ensure equipment/vehicles are made safe before leaving unattended. Good Housekeeping on site. Undertake works during holidays / weekends.
3	Pedestrians visiting Doctors Surgery, Health Centre, getting access to the site (falling into trenches, interfering with equipment, guarding)	Doctors Surgery, Health Centre	Yes	Provide NRSWA, Chapter 8 signing and guarding. Ensure equipment/vehicles are made safe before leaving unattended. Good Housekeeping on site. Further risk assessment may be required taking into consideration necessary temporary structures if our works will disrupt / temporally put out of service specific requirements i.e. ramps.
4	People falling into excavations. People falling over Barriers	All sites; Pedestrians including blind / partially Sited Persons, physically Disabled Persons, old persons.	No	Provide NRSWA, Chapter 8 signing and guarding. Adequate barriers and equipment on site. Liaise with local residents. Good Housekeeping on site. Clean High Vis PPE worn at all times on site.
5	Dust, Animal Droppings, Grease, Food waste etc	Buildings.	Yes	On discovery of excessive dust, animal droppings, grease, food waste etc, works must stop and management / supervisor to make a decision as to whether they would be able to safety clean and dispose of it. If not, then it must be reported to Community Fibre management team who will arrange for the area to be cleaned.
6	Confined Space Environment	All sites	Yes	Ensure that supervisors / managers have sufficient experience and have been trained to be able to recognise a confined space, - including when a non-confined space would change to a confined space due to their / others activities. All confined space work to be undertaken must follow the HSE guidance L101 (Safe Work in Confined Spaces).
7	People falling into open manholes.	All sites	No	Follow the guidance as prescribed by NRSWA paying particular attention that all open manhole must have sufficient protection around them at all times and that gases test testing is to be undertaken.
8	Disturbance caused - noise, lighting	All sites	Yes	Ensure that adhere to the time restriction given for noise / lighting. The Local Authority's environmental Health Officer will be kept informed of all upcoming activities that may impact local residents. All plant and machinery will be switched off when not in use. All plant and machinery will be maintained and serviced to minimise noise. Dust reduction measures to be employed if necessary.
9	Explosion, Electrocution and/or Burns	Plant or Works close to Overhead Lines, Exposed Electric Cables, Underground Electrical services. Private land where utility information is unregulated.	Yes	Refer to PU Prints, Contact Utility if request on plans prior to works commencing. Mark up Services, Detection Equipment used on site (Cat & Genny). Stop work and inform relevant utility immediately if damage occurs. Highly visible barriers should be erected at least 6 m away from overhead lines to prevent inadvertent approach to them. Crossing points beneath the overhead lines need to be clearly defined by means of red and white goalpost and signs. On private land, utility information is often out of date or unrecorded / not regulated. Use safe digging and construction methods on private land.
10	Danger of Explosion and/ or escape of noxious gases- Risk of damage caused to underground services	Exposed Gas duct, Underground Gas services Private land where utility information is unregulated.	Yes	Refer to PU Prints. Contact Utility if request on plans prior to works commencing and Mark up services prior to work commencing. Stop work and inform relevant utility immediately if damage occurs. On private land, utility information is often out of date or unrecorded / not regulated. Use safe digging and construction methods on private land.
11	Danger of being struck by Train	Works near railways. Level Crossings	No	Method statement required. Liaise with the railway operators.
12	Ignition of Hazardous Fumes	Works near Petrol Station, Landfill sites. Gas Leak	Yes	Liaise with local businesses e.g. Petrol Station. No smoking or use of mobile phones near to the site. Gas testing prior to start of works and constant monitoring of gas levels required.
13	Danger of Flooding and / or Drowning	Existing Water Main Works close to river, lakes, lochs, sea	Yes	Rescue crews and equipment available on site, to be operated by trained and competent personnel only.
14	Inhalation of toxic gas and oxygen deficiency Asphyxiation caused by contamination	Confined Spaces e.g. Tunnels, Manholes, Trenches/Excavations Contaminated Land, Landfill sites	Yes	Gas Monitoring equipment available on site. Follow a safe system of work. Rescue procedures should be instructed prior to work commencing. Rescue crews to be deployed as required. Only trained and competent personnel (Minimum requirement Confined Space Entry and emergency escape with 5 minute escape set) to be deployed. No Lone Working under any circumstances.
15	Drilling through existing utilities while Drilling through walls and slabs	Masonry Wall Concrete Wall	Yes	Liaise with Building Manager. Ensure that worker is familiar with utilities plans and have undertaken further checks to be satisfied that there are no services prior to drilling. Mark up Services/Cables prior to work commencing.
16	Slips, trips and falls	Poor re-instatement, Damage to permanent surface, stored materials, trailing hoses or cables, Trailing pipe work	Yes	Remove waste and rubbish as it arises. Good Housekeeping. Provide NRSWA, Chapter 8 signing and guarding. Adequate barriers and equipment on site. Liaise with local residents/emergency services.
17	People struck by vehicles entering or leaving the site		Yes	Use a Banksman. Clean High Vis PPE worn at all times on site. Provide NRSWA, Chapter 8 signing and guarding. Adequate barriers and equipment on site. Liaise with local residents/emergency services. All vehicles must be driven/operated/towed in an appropriate way with safe loading of the vehicle

Community Fibre planner completed the above hazard identification sheet in relation to the planned works and surrounding area, based upon the findings during site survey and any guidance from third parties. Further risk assessment may be required.

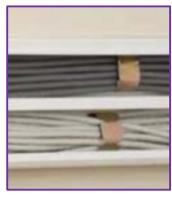


Hazard Identification By Planner During Site Survey and Minimum Requirements

Project Title:		ID 16402	- Foundling Court	Site:	Foundling Court & O'donnell Court
Performed by:		D	ragos Galu	Date:	12.04.2023
ID	Hazard	Possible Loca	tions/People affected	Yes/No	Minimum Requirements
18	Physically / Verbally Threatening Behaviour	Known trouble spots.Anywher	2	Yes	Treat members of the public politely. All verbal or physical threatening behaviour from residents, members of the public or third parties must be report to the Community Fibre management team who will report it through the Community Fibre Accident / incident reporting system. These must also be reported to their own contractor management.
19	Evidence of Discarded Medicines / Needles - infection caused by any of these.	These can be found anywhere. Often sited in around drains, b	ack lanes, Red light districts	Yes	Contact Local Authority Environmental Health Department for their removal. Keep cuts & abrasions covered with an impervious dressing. Wear heavy duty impervious gloves. Good Hygiene practices
20	Hit by falling tools / equipment	Steep Inclines.Narrow working areaWork at height		Yes	Good Housekeeping, Equipment / tools should not be stored near the trench or on working platform. Kick boards to be deployed on all working platforms.
21	Working at height	Work on ladders, work on the roofs, work on cherry pickers.		Yes	Ensure that all working at height activities meet the stipulations as set out in the appropriate HSE approved code of practices and guidance's for working at height. They must ensure that an appropriate risk assessment has been undertaken for all working at height activities and that the controls highlighted have been put into place prior to the activities commencing. Any equipment to be used must be; Suitable for the task / environment, Be maintained / checked, Appropriate training given for those who are to use it.
22	Lone Working	,		Yes	Regular contact between the worker and their supervisor. Check must be made that the worker has returned to their base on completion of the task. Access to adequate First Aid Kit
23	Burning, Temporary Blindness from lasers	Working with live fibres		Yes	Good Housekeeping - removal of sharps . Eye Wash available. Power down all lasers prior to work on working fibres. Deploy Laser Protection Glasses/Goggles where not possible to confirm powering down of equipment. Check for laser deployment using with Live Fibre Identifier but bear in mind that this is not a conclusive test.
24	Woodland Fire			No	Leave site immediately. Contact Emergency Services as soon as possible
25	Interference with fire escape routes from surrounding buildings	All sites ,		Yes	Ensure that the escape routes are not blocked by works or equipment. Where this is not possible the building manager will need to be informed in sufficient time to make alternative arrangements and brief all on site. Provide NRSWA, Chapter 8 signing and guarding. Adequate barriers and equipment on site. Liaise with local residents/emergency services. Clean High Vis PPE worn at all times on site.
26	Danger from Weils Disease (leptospirosis)	Works near lakes, rivers, sewers and other standing water		Yes	contractor need to ensure that they have briefed all they relevant staff on the necessary precautions to prevent the contraction of Weils disease which should include as a minimum: Keep cuts & abrasions covered with an impervious dressing. Wear heavy duty impervious gloves. Good Hygiene practices. Carry Leptospirosis warning card if working in areas of likely rodent infestation. Notify doctor of possible contact with nodent habital if reporting with fullie symptoms.
27	Danger from Legionella / Pontiac Fever	Cooling towers, air conditioning systems		Yes	Any Illness should be reported immediately. Mask should be work during works.
28	HGV vehicles impact with trench/ personnel	Steep inclines Road Bends		No	Provide NRSWA, Chapter 8 signing and guarding. Adequate barriers and equipment on site. Liaise with local residents. Clean High Vis PPE worn at all times on site.
29	Heavy plant toppling into an excavation.	Steep inclines, narrow road/lane		No	Stop blocks provided. Never tip over an edge without approved stop blocks. Plant should be located away from trench edges.
30	Risk of trench collapse from surcharging	Buildings, banking or other structures increase additional loading to the ground		No	Batten back trench sides. Trench Sheeting in Strips Plant, equipment and tools should be located away from the trench edges.
31	Interference with structural integrity of building			Yes	Llaise with Building Manager prior to work commencing.
32	Traffic Accidents	Areas of congestion. Local Accident Black spots		No	Provide NRSWA, Chapter 8 signing and guarding. Adequate barriers and equipment on site. Clean High Vis PPE worn at all times on site.
33	Asbestos (ACM – Asbestos Containing Material)	Buildings constructed or refurbished between 1950 and 1996. Insulating coating on steelwork Lagging on pipes boilers Some decorative plaster. Old Firestopping materials Corrugated roofing materials		Yes	In order to avoid asbestos, information must be obtained on the location and condition of asbestos prior to work commencing from the building manager (Asbestos Register) Laise with the Building Manager during works. Third party contractors to ensure that they have familiarised themselves with the sites asbestos survey in relation to the areas that they will be working. No works to take place if asbestos is present in the areas to be worked in or if there is a risk that asbestos in other areas could be disturbed by the work activities or through the access to the working area. Third party contractors who are working within buildings for Community Fibre and who are at risk of coming into contact with asbestos materials must have received appropriate training for the identification of asbestors anterials. If asbestors / suspected asbestors is discovered them works must polity immediately and be reported to Community Fibre as soon as possible The Community Fibre management team will require specific information and may request help from the Community Fibre Health and Safety Team. Found asbestos / suspected asbestos was also be reported to your own company management team.
34	Asbestos Report Reviewed			Yes	
		Multiplier	1	2	3
	Rodent Protection Matrix.	1 Nearby Site	Open Public / Industrial Bins	Continuous Tree Foliage	Rodent Damage to Existing Services Observed
		2 Onsite/ Within 20m	Nearby Green Spaces / Trees / Bushes	Bird Feeders / Other Food Sources	Rodent Observed Anti-Rodent Equipment Observed
35	Please use the adjacent Risk Matrix to calculate the need for armoured cable on site.	Within 100m	Nearby Waste Management Site		
	and the same of th	Score	1 to 3	4 to 5	6+
			No Rodent Protection Needed*	Consider Rodent Protection	Rodent Protection Needed
		Total Score			1 to 3
36	Other			No	

Community Fibre planner completed the above hazard identification sheet in relation to the planned works and surrounding area, based upon the findings during site survey and any guidance from third parties. Further risk assessment may be required.





A: Fire Clips and Fixings

In accordance with BS5839 all cable routes within common areas must perform to a minimum of part 1: clause 26.2(f). Regulation 521.11 within BS7671 2008 Amendment 3 states in Chapter 52 (Selection and Erection of Wiring Systems) that wiring systems in escape routes shall be supported in such a way that they will not be liable to premature collapse in the event of fire. The cables must be secured at appropriate intervals within the trunking and on walls with fire clips. The fire clips will be secured to the wall using masonry screws and gas fired nails that have a 2-hour fire-resistant certification.







B: External Cable Management

Externally installed customer drop cables will be attached to a stainless steel galvanized catenary cable that is fitted to the outside of the building with eyebolts. The cables will be secured to the catenary wire. A 5m loop of cable will be secured outside each property for the connection of broadband services when ordered by the tenant.

The fibre optic cable comes in carious colors and will be matched as best as possible to blend in with the existing building exterior.



C: Fire Stopping

All new drill holes to pull cables through to different levels of the building or between fire compartmented areas must be fire stopped with a suitable approved intumescent material. Any existing firestop that is disturbed during the installation will be replaced by material that meets the current standard.

Fire Safety



Fox Court, 14 Grays Inn Rd London, WC1X 8HN Registration No: 7413288

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S4 Large Splitter Box; 2x 1:32

Dimensions (HxWxD): 470x307x147mm



S4 Medium Splitter Box; 1x1:32

Dimensions (HxWxD): 470x307x147mm



Distribution Joint (PBO)

Dimensions (HxWxD): 213x240x76mm



ZNx0: External 2f Drop Cable

Dimension (OD): 2.8mm (2 Core Fibre) Cable weight; 7.6kg/km

Reaction to fire: Cca-s1, d0, a1



S3 Splitter Box; 1:8, 2x1:8, 3x1:8

Dimension (HxWxD): 340x247x76mm



Internal Fibre Wall Outlet

Dimension (HxWxD): 85x85x16mm



MDU External Coil Covers

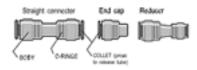
Dimension (LxDxH): 168x151x44mm



ZNx0: Internal 2f Drop Cable

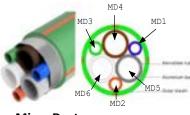


Push Fit Connector Range



Combo Sub Duct

Combo (3x10/8mm+5/3.5mm)



Micro Duct

OD/ID (12/8mm and 7/3.5mm)



EM-Wrap Closure

Dimensions (L): 400mm

Open





External Distribution SM Fibre G.657

Fibre Type ID: Z019; Fibre Count 12-48.

Temperature range: -30 to +70°C

Dimension (OD): 5.2mm Cable weight; 22kg/km

TIA-598: Colour Code



Internal Distribution SM Fibre G.657

Fibre Type ID: MiniXtend; Fibre Count 12-72.

Temperature range: -30 to +60°C

Dimension (OD): 7.8mm Cable weight; 72kg/km

TIA-598: Colour Code

Reaction to fire: B2ca-s1, d0, a1



Specification (1)



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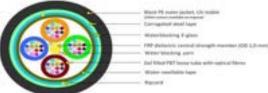
Registration No: 7413288

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LH0I: Armoured Distribution Cable (48F)

Dimension (OD): 11.5mm Cable weight; 125kg/km

TIA-598: Colour Code



3.0 Armoured Drop Cable (2F) LSNH SM Fibre G.657.A1

Dimension (OD): 3.0mm Cable weight; 131kg/km

Reaction to fire: B2ca-s1a, d0, a1

TIA-598: Colour Code

Colours: Black, Grey, Brown, White

S3/S4 Loop Storage and Pest Guard

S4 Loop Storage Dimension (DxWxH) 63.5x285x416mm S3 Loop Storage Dimension (DxWxH): 63x228x357mm

S4 Pest Guard Dimension (DxWxH): 60x289x404mm S3 Pest Guard Dimension (DxWxH): 60x232x345mm

Galvanised Capping & Boot

Capping Steel No1: Dimension (LxW): 2400x76mm



Connector Bend No 1:Dimension (D): 90mm



Rodent Cabling Guidance

- Use the rodent risk matrix found in the Hazard Identification Sheet to gauge whether anti-rodent products are required to aid design requirements.
- · Unarmoured feed cabling from a duct is to be converted to either armoured (where required) within 5m of the upturn via a "PBO" and or "Access Splitter Wall Box", this being design specific. Remaining unarmoured cabling will be housed in galvanised capping and boot.
- For large estates and or project containing several buildings, it will be at the discretion of either the planners and/or assigned CFL planning resource as to which buildings require rodent proof products.
- Rodent proof cables are to follow normal cabling routes. Should tree branches or large bushes form close to a wall, the route selected should be changed to avoid forming a bridge onto the cable.
- · If cables are to run in areas where food sources are evident, from restaurants and or supermarket bins and no green field space are evident, then galvanised capping and boot are to be used.
- Any queries about the usage of Armoured/Rodent cabling can be discussed with the assigned CFL planning lead.

3.0 Armoured Drop Cable (2F) LSNH SM Fibre G.657



77752:External Rodent Proof Distribution Cable (48F) SM Fibre G.657.A1

Dimension (OD): 8.6mm Cable weight; 60kg/km

TIA-598: Colour Code



77767:External Rodent Proof Distribution Cable (144F)

SM Fibre G.657.A1

Dimension (OD): 12.6mm Cable weight; 131kg/km

TIA-598: Colour Code



Specification (2)

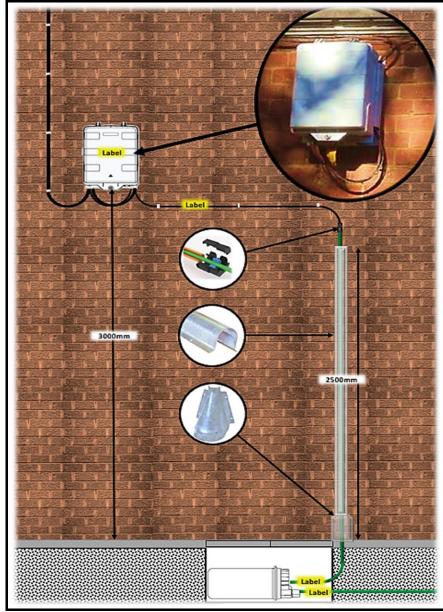


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For this instruction only, it is important the following are considered during the design and planning phase.

- Prior to the commencement of works ensure the correct authorities are notified and that all work is carried out in a safe controlled environment.
- It is imperative that either "S4 and or S3 Access Wall Box" be sited;
 - ✓ For internal installation wherever possible within an agreed safe/secure location, such as lockable riser or services cupboard. (Consult Building Regulation B3).
 - ✓ For external installations they shall be positioned at the highest level where possible. Consider (Work at Height Regulation 2005) when looking at a suitable location .

Note: A maximum height of "3 metres", Shall be maintained when siting the Access Wall Box. This is specific to the loop storage wall bracket" and it's cable storage capacity.

Distribution fibres routed from an underground enclosure, **WILL** be contained within a Micro-duct and sealed using a "divisible" duct seal and protected by "galvanised steel capping".

Specification (3)



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