

# Risk Assessment / Method Statement – YouFibre: Cable Pulling/Installation.

## Project Scope:

**Location issues:** *Heavy public presence, adverse weather conditions, transport.*

## Detail:

- Installed before work commences;
  - Infrastructure including chambers & ducting.
  - Joint box (footway or carriageway) containing network equipment e.g. Connectorised Block Terminal (CBT).
  - Toby boxes / Swept Tees.
- Installation of fibre optic cable between CBT & external termination point of end user SDU (Single Dwelling Unit).
- Individual fibre optics cables are distributed from the CBT to external termination point through existing ducting.
- Cable to be routed safely to external termination point to YouFibre specification & customer agreement.

## Hazard Identification and Risk Controls

Provided in the attached Risk Assessment.

## Environmental Protection Measure:

Waste and spoil disposed of in the designated area or receptacle provided for waste.

## Quality Control:

The installation will be checked on completion by inspection.

## Welfare:

Local knowledge of public welfare facilities beneficial. Local business welfare facilities must only be utilised if/when purchasing products or if permitted by owner/manager.

## Method

1. Effectively segregate working area to prevent unauthorised access.
2. Provide clear safe, alternative pedestrian routes if work area obstructs existing footway.
3. Break seal & partially raise chamber cover. Complete initial atmosphere test prior to removing chamber cover (three bleeps/20 seconds per bleep).
4. Safely & correctly remove chamber cover in accordance with required standard (SA002). Contain open chamber, chamber cover & equipment within segregated area.
5. Complete thorough atmosphere tests & continuously monitor.
6. If water is present within chamber, perform water test to determine category e.g. pure water, sewage etc. If volume is <math><5\text{m}^3</math> & is not deemed as polluted then pump from chamber into carriageway drain/gutter or onto grass verge - continuously monitor. If volume is >math>5\text{m}^3</math> & is deemed as polluted, stop work & contact supervisor for tank disposal (Gully emptier). Reference 'test card' within water test kit.
7. Installation of fibre optic cable between CBT & external termination point (SDU).
8. Proof existing duct by drawing rope (pre-installed) to test fluidity of duct (unobstructed).
9. If a draw rope is not present, perform correct rodding procedure to test duct is unobstructed (K008) .
10. If draw rope is lodged or hand rodding activities indicate an obstruction, replace chamber cover, remove equipment & refer job to manager/supervisor.
11. If ducting proves clear, utilise rod / rope following correct procedure. Pull fibre optic cable from CBT, through ducting to external termination point (SDU). Route the fibre optic cable from toby box/swept tee to external termination point as per Youfibre specification. Terminate fibre cable at end user SDU.
12. Test integrity of connections.
13. Replace chamber cover (SA002).
14. Disassemble SLG e.g. remove barriers.

	Name	Title	Date
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Likelihood			Consequence		
1	Very unlikely	1 in a million of hazardous event	1	Insignificant	No injury
2	Unlikely	1 in 100,000 of hazardous event	2	Minor	Minor injuries requiring first aid
3	Fairly likely	1 in 10,000 of hazardous event	3	Moderate	Up to 7 days absence
4	Likely	1 in 1,000 of hazardous event	4	Major	More than 7 days absence
5	Very likely	1 in 100 of hazardous event	5	Catastrophic	Death

LIKELIHOOD	5	4	3	2	1	
	5	5	10	15	20	25
	4	4	8	12	16	20
	3	3	6	9	12	15
	2	2	4	6	8	10
	1	1	2	3	4	5
	1	2	3	4	5	

CONSEQUENCES

<ul style="list-style-type: none"> <li>● Location / Activity</li> <li>○ Hazard</li> </ul>	<ul style="list-style-type: none"> <li>➤ Who might be harmed,</li> <li>❖ The Hazardous Event</li> <li>⤴ The Consequences</li> </ul>	Controls	Risk Rating		
			L	C	R
<ul style="list-style-type: none"> <li>● Carriageway / removing equipment from vehicle.</li> <li>○ Traffic.</li> </ul>	<ul style="list-style-type: none"> <li>➤ Technician(s).</li> <li>❖ Impact from passing vehicle.</li> <li>⤴ Catastrophic.</li> </ul>	<ol style="list-style-type: none"> <li>1. Construction site induction provided by developer.</li> <li>2. Vehicle to be parked with side door (access to cargo hold) adjacent to the footway.</li> <li>3. Mandatory high-visibility clothing to be worn at all times.</li> </ol>	1	5	5
<ul style="list-style-type: none"> <li>● Lifting operations e.g. carrying equipment / tooling.</li> <li>○ Manual handling</li> </ul>	<ul style="list-style-type: none"> <li>➤ Technician(s).</li> <li>❖ Inappropriate manual handling.</li> <li>⤴ Major musculoskeletal injury.</li> </ul>	<ol style="list-style-type: none"> <li>1. Manual handling training provided (induction).</li> <li>2. TBT on manual handling provided at regular intervals.</li> <li>3. Regular refresher training at 3 yearly intervals.</li> </ol>	2	4	8
<ul style="list-style-type: none"> <li>● Accessing / working on lower ground levels e.g. basement / cellar.</li> <li>○ Vermin / Rodents.</li> </ul>	<ul style="list-style-type: none"> <li>➤ Technician(s).</li> <li>❖ Infection.</li> <li>⤴ Major illness.</li> </ul>	<ol style="list-style-type: none"> <li>1. Leptospirosis awareness training included on induction &amp; SA002 assessment.</li> <li>2. Leptospirosis card issued on induction. Instructed that card must be carried at all times.</li> <li>3. TBT on disease /awareness provided at regular intervals.</li> </ol>	1	5	5
<ul style="list-style-type: none"> <li>● Customer relations.</li> <li>○ Irrational behavior – occupant / landlord.</li> </ul>	<ul style="list-style-type: none"> <li>➤ Technician(s).</li> <li>❖ Assault.</li> <li>⤴ Catastrophic.</li> </ul>	<ol style="list-style-type: none"> <li>1. Threats &amp; violence awareness included on induction.</li> <li>2. TBT on threats &amp; violence provided at regular intervals.</li> <li>3. Company mobile telephone provided.</li> </ol>	1	5	5
<ul style="list-style-type: none"> <li>● Condition of premises.</li> <li>○ Sharps.</li> </ul>	<ul style="list-style-type: none"> <li>➤ Technician(s).</li> <li>❖ Infection.</li> <li>⤴ Major illness.</li> </ul>	<ol style="list-style-type: none"> <li>1. Technician training on surveying area / needle stick injuries / discarded sharps / disease &amp; infection - provided on induction.</li> <li>2. Sharps hotline number provided to technician on induction &amp; at regular intervals via TBT.</li> <li>3. TBT on needle stick injuries / precautions provided at regular intervals.</li> </ol>	2	4	8
<ul style="list-style-type: none"> <li>● Condition of premises.</li> <li>○ Soiled nappies / human &amp; animal faeces.</li> </ul>	<ul style="list-style-type: none"> <li>➤ Technician(s).</li> <li>❖ Infection.</li> <li>⤴ Major illness.</li> </ul>	<ol style="list-style-type: none"> <li>1. Technician training on entry to customer premises / surveying area / disease &amp; infection - provided on induction.</li> <li>2. TBT on customer premises provided at regular intervals.</li> </ol>	1	4	4
<ul style="list-style-type: none"> <li>● Pushing / pulling activities e.g. pulling cables.</li> <li>○ Manual handling.</li> </ul>	<ul style="list-style-type: none"> <li>➤ Technician(s).</li> <li>❖ Inappropriate manual handling.</li> <li>⤴ Major musculoskeletal injury.</li> </ul>	<ol style="list-style-type: none"> <li>1. Specific manual handling training provided (technician assessments).</li> <li>2. Regular refresher training at 3 yearly intervals.</li> </ol>	2	4	8
<ul style="list-style-type: none"> <li>● Accessing / working on underground services.</li> <li>○ Electricity.</li> </ul>	<ul style="list-style-type: none"> <li>➤ Technician(s).</li> <li>❖ Contact with live conductors.</li> <li>⤴ Catastrophic.</li> </ul>	<ol style="list-style-type: none"> <li>1. Approved / Insulated tooling.</li> <li>2. Voltage detection equipment (pen) provided. (If working within street furniture)</li> </ol>	1	5	5

<ul style="list-style-type: none"> <li>● Location / Activity</li> <li>○ Hazard</li> </ul>	<ul style="list-style-type: none"> <li>➤ Who might be harmed,</li> <li>❖ The Hazardous Event</li> <li>⤴ The Consequences</li> </ul>	Controls	Risk Rating		
			L	C	R
<ul style="list-style-type: none"> <li>● Accessing / working on underground services.</li> <li>○ Gas.</li> </ul>	<ul style="list-style-type: none"> <li>➤ Technician(s).</li> <li>❖ Explosive atmosphere.</li> <li>❖ Oxygen deficient atmosphere.</li> <li>⤴ Catastrophic.</li> </ul>	<ol style="list-style-type: none"> <li>1. Calibrated Gas Detection Unit (GDU) provided.</li> <li>2. Gas testing / monitoring - GDU usage / training provided on induction &amp; at regular intervals – SA002 assessment.</li> <li>3. Utility provider contact number available on request (supervisor).</li> </ol>	2	5	10
<ul style="list-style-type: none"> <li>● Accessing / working on underground services.</li> <li>○ Sharps.</li> </ul>	<ul style="list-style-type: none"> <li>➤ Technician(s).</li> <li>❖ Infection.</li> <li>⤴ Major illness.</li> </ul>	<ol style="list-style-type: none"> <li>3. Technician training on surveying area / needle stick injuries / discarded sharps / disease &amp; infection - provided on induction &amp; technician assessments (SA002).</li> <li>4. Sharps hotline number provided to technician on induction &amp; at regular intervals via TBT.</li> <li>5. Regular refresher training on removal of chamber cover / surveying (sweep) work area via TBT / practical assessments (SA002).</li> </ol>	2	4	8
<ul style="list-style-type: none"> <li>● Accessing / working on underground services.</li> <li>○ Venomous insects.</li> </ul>	<ul style="list-style-type: none"> <li>➤ Technician(s).</li> <li>❖ Stung / bitten by venomous insect.</li> <li>⤴ Minor injury.</li> </ul>	<ol style="list-style-type: none"> <li>1. Training / instruction involving: Leaving undisturbed / gathering photographic evidence (insect) / seeking medical advice.</li> <li>2. Refresher training.</li> </ol>	1	2	2
<ul style="list-style-type: none"> <li>● Accessing / working on underground services.</li> <li>○ Rodents / Vermin.</li> </ul>	<ul style="list-style-type: none"> <li>➤ Technician(s).</li> <li>❖ Infection.</li> <li>⤴ Major Illness.</li> </ul>	<ol style="list-style-type: none"> <li>1. Leptospirosis awareness training included on induction.</li> <li>2. Leptospirosis card issued on induction. Instructed that card must be carried at all times.</li> <li>3. TBT on disease /awareness provided at regular intervals.</li> </ol>	1	5	5
<ul style="list-style-type: none"> <li>● Accessing / working on underground services.</li> <li>○ Exposed chamber.</li> </ul>	<ul style="list-style-type: none"> <li>➤ Technician(s).</li> <li>➤ General public.</li> <li>❖ Falling into chamber.</li> <li>⤴ Major injury.</li> </ul>	<ol style="list-style-type: none"> <li>1. Training provided on safe removal of chamber cover / guarding exposed chamber. Technician assessments on safety underground (SA002).</li> <li>2. Gate guards / barriers provided.</li> <li>3. Sandbags issued for adverse weather conditions i.e. wind.</li> <li>4. Refresher training provided at regular intervals.</li> </ol>	2	5	10
<ul style="list-style-type: none"> <li>● Accessing / working on underground services.</li> <li>○ Silted / flooded chamber.</li> </ul>	<ul style="list-style-type: none"> <li>➤ Technician(s).</li> <li>❖ Infection.</li> <li>⤴ Major illness.</li> </ul>	<ol style="list-style-type: none"> <li>1. Training / instruction provided on safety underground assessment (SA002) i.e. identification of pure &amp; polluted water.</li> <li>2. Instruction provided on removing excess water from chamber (SA002).</li> <li>3. Water test kit provided.</li> <li>4. If chamber is 'silted' then advised to inform supervisor &amp; request civils cleanse.</li> <li>5. If flooded &amp; volume is &gt;5m<sup>3</sup> &amp; is deemed as polluted, stop work &amp; contact supervisor for tank disposal (Gully emptier).</li> </ol>	1	4	4

<ul style="list-style-type: none"> <li>● Location / Activity</li> <li>○ Hazard</li> </ul>	<ul style="list-style-type: none"> <li>➤ Who might be harmed,</li> <li>❖ The Hazardous Event</li> <li>⤴ The Consequences</li> </ul>	Controls	Risk Rating		
			L	C	R
<ul style="list-style-type: none"> <li>● Accessing / working on underground services.</li> <li>○ Lifting / removal of chamber cover.</li> </ul>	<ul style="list-style-type: none"> <li>➤ Technician(s).</li> <li>❖ Inappropriate manual handling.</li> <li>⤴ Major musculoskeletal injury.</li> <li>⤴ Major crush injury - foot / hand.</li> </ul>	<ol style="list-style-type: none"> <li>1. Manual handling training provided (induction).</li> <li>2. Training provided on safe removal of chamber cover (induction). Technician assessments on safety underground (SA002).</li> <li>3. Correct chamber cover removal keys / associated equipment provided.</li> <li>4. PPE provided e.g. steel toe capped footwear.</li> <li>5. Regular refresher training at 3 yearly intervals.</li> </ol>	<b>2</b>	<b>4</b>	<b>8</b>
<ul style="list-style-type: none"> <li>● Accessing / working on underground services.</li> <li>○ Cable.</li> </ul>	<ul style="list-style-type: none"> <li>➤ Technician(s).</li> <li>➤ General public.</li> <li>❖ Slip / trip / fall over cable.</li> <li>⤴ Major injury.</li> </ul>	<ol style="list-style-type: none"> <li>1. Retain cable within working area.</li> <li>2. SLG provided e.g. gate guards / barriers.</li> <li>3. Regular refresher training at 3 yearly intervals. (K8)</li> </ol>	<b>2</b>	<b>4</b>	<b>8</b>
<ul style="list-style-type: none"> <li>● Accessing underground structure / confined space entry.</li> <li>○ Atmosphere.</li> </ul>	<ul style="list-style-type: none"> <li>➤ Technician(s).</li> <li>❖ Explosive / oxygen deficient atmosphere.</li> <li>⤴ Catastrophic.</li> </ul>	<ol style="list-style-type: none"> <li>1. Medium / high risk confined space training provided.</li> <li>2. Confined space refresher training every 2 years.</li> <li>3. Correct confined space equipment available / provided e.g. tripod, winch, harness, escape equipment.</li> <li>4. Calibrated Gas Detection Unit (GDU) provided.</li> <li>5. Gas testing / monitoring - GDU usage / training provided on induction &amp; at regular intervals.</li> <li>6. Utility provider contact number available on request (supervisor).</li> </ol>	<b>2</b>	<b>5</b>	<b>10</b>
<ul style="list-style-type: none"> <li>● Accessing underground structure / confined space entry.</li> <li>○ Unsecure access to chamber (ladders).</li> </ul>	<ul style="list-style-type: none"> <li>➤ Technician(s).</li> <li>❖ Falls from height.</li> <li>⤴ Catastrophic.</li> </ul>	<ol style="list-style-type: none"> <li>1. Medium / high risk confined space training provided.</li> <li>2. Confined space refresher training every 2 years.</li> <li>3. Correct confined space equipment available / provided e.g. tripod, winch, harness, escape equipment.</li> <li>4. PPE provided e.g. safety helmet / FPE.</li> <li>5. Utility provider phone number available on request (management).</li> </ol>	<b>3</b>	<b>5</b>	<b>15</b>
<ul style="list-style-type: none"> <li>● Working activities in vicinity of general public.</li> <li>○ Threats &amp; violence.</li> </ul>	<ul style="list-style-type: none"> <li>➤ Technician(s).</li> <li>❖ Assault.</li> <li>⤴ Catastrophic.</li> </ul>	<ol style="list-style-type: none"> <li>1. Threats &amp; violence awareness included on induction.</li> <li>2. TBT on threats &amp; violence provided at 1-year intervals.</li> <li>3. Company mobile telephone provided.</li> </ol>	<b>1</b>	<b>5</b>	<b>5</b>

<ul style="list-style-type: none"> <li>● Location / Activity</li> <li>○ Hazard</li> </ul>	<ul style="list-style-type: none"> <li>➤ Who might be harmed,</li> <li>❖ The Hazardous Event</li> <li>⤴ The Consequences</li> </ul>	Controls	Risk Rating		
			L	C	R

Review date	Carried out by:	Changes

Date of next review: 01/02/2021